NEW HANOVER COUNTY GOVERNMENT CENTER

LS3P: 7702-190810
CAPE FEAR FD STONEWATER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403





CURRENT ISSUE: 2020.12.16 GMP SET

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2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL PAPER SIZE

Name of Project: New Hanover County Government Center
Address: Government Center Drive, Wilmington, NC Zip Code: 28403
Owner / Agent: Brian Eckel Phone #: (910) 344-1001 Email: brian@capefearcommercial.com
Owned By: ☐ City/County ■ Private ☐ State
Code Enforcement Jurisdiction: ☐ City: ■ County: New Hanover ☐ State

CONTACT: Laura Miller

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #
Architectural	LS3P Associates, Ltd.	Laura Miller	9888	(910) 790-9901
Civil	SEPI Engineering	Mark Arcuri	24419	(910) 523-5715
Electrical	Newcomb-Boyd	A. Smurygina	44840	(919) 783-8990
Fire Alarm	Newcomb-Boyd	A. Smurygina	44840	(919) 783-8990
Plumbing	Newcomb-Boyd	Paul Kitchens	43322	(919) 783-8965
Mechanical	Newcomb-Boyd	Paul Kitchens	43322	(919) 783-8965
Sprinkler-Standpipe	Newcomb-Boyd	Paul Kitchens	43322	(919) 783-8965
Structural	Citadel Contractors, Inc.	Chris Jackson	036852	(919) 362-5122
Retaining Walls>5' High				
Other	Mihaly Land Designs	Josh Mihaly		(910) 392-4355

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ■ New Building ☐ Addition ☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: ■ N/A ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) N/A **CURRENT OCCUPANCY(S)** (Ch. 3): N/A
RENOVATED: (date) N/A **PROPOSED OCCUPANCY(S)** (Ch. 3): N/A

RISK CATEGORY (Table 1604.5): **Current:** ☐ N/A ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ N/A ☐ I ■ II ☐ III ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
☐ I-B ■ II-B ☐ III-B ☐ V-B
Sprinklers: ☐ No ☐ Partial ■ Yes ■ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ No ■ Yes **Class** ■ I ☐ II ☐ III ■ Wet ☐ Dry
Fire District: ■ No ☐ Yes **Flood Hazard Area:** ■ No ☐ Yes
Special Inspections Required: ☐ No ■ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
4th Floor		26,636	26,636
3rd Floor		26,636	26,636
2nd Floor		41,464	41,464
Mezzanine			
1st Floor		41,856	41,856
TOTAL		136,592	136,592

ALLOWABLE AREA

Primary Occupancy Classification(s):

Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ■ B
Educational ☐ E
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 - List Code Sections): N/A
Special Provisions (Chapter 5 - List Code Sections): N/A
Mixed Occupancy: ☐ No ■ Yes Separation: 1 Hr. Exception: N/A

☐ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building

■ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be suchthat the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(E) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	B	41,856	69,000	N/A	69,000
2	B	41,464	69,000	N/A	69,000
3	B	26,636	69,000	N/A	69,000
4	B	26,636	69,000	N/A	69,000

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width. N/A (F).
b. Total Building Perimeter = N/A (P)
c. Ratio (F/P) = N/A (F/P)
d. W = Minimum width of public way = N/A (W)
e. Percent of frontage increase I = 100[F/P - 0.25] x W / 30 = N/A (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	75'	67'-8"	
Building Height in Stories (Table 504.4)	4	4	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING** REQ'D	RATING** PROVIDED (w_____* Reduct.)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENE-TRATION	DESIGN # FOR RATED JOINTS
Structural Frame, Including Columns, Girders, Trusses		0	0				
Bearing Walls							
Exterior	>30'	0	0				
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior Walls	>30'	0	0				
North							
East							
West							
South							
Interior Walls							
Floor Construction, Including Supporting Beams and Joists		0	0				
Floor Ceiling Assembly							
Columns Supporting Floors		0	0				
Roof Construction, Including Supporting Beams and Joists		0	0				
Roof Ceiling Assembly							
Columns Supporting Roof		0	0				
Shaft Enclosures - Elev.		2	2	A-005	U415		
Shaft Enclosures - Other		2	2	A-006	U419		
Corridor Separation		1	2	A-006	U419		
Occupancy / Fire Barrier Separation		1	1	A-006	U419		
Party / Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant / Dwelling / Unit / Sleeping Unit Separation							
Incidental Use Separation							

* Indicates section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL AREA SHOWN ON PLANS (%)
>30'	(UP, S)	No Limit	

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ■ Yes
Exit Signs: ☐ No ■ Yes
Fire Alarm: ☐ No ■ Yes
Smoke Detection Systems: ☐ No ■ Yes ☐ Partial _____
Carbon Monoxide Detection: ☐ No ■ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G-101, G-102, G-103

■ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
■ Exterior wall opening area with respect to distance to assumed property lines (705.8)
■ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
■ Occupant loads for each area
■ Exit access travel distances (1017)
■ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
☐ Dead end lengths (1020.4)
■ Clear exit widths for each exit door
■ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note and code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
		SEE CIVIL PLANS				
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

LEVEL		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNI SEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNI SEX	SHOWERS /TUBS	DRINKING FNTNS. REG.	DRINKING FNTNS. ACCESS.
01	PROVIDED	7	17	3	6	8	8	3	10	1*	1*
	REQ'D	10	15	1		7	7	1	0	3	3
02	PROVIDED	4	8	0	4	5	5	0	0	2	2
	REQ'D	6	8	0		7	7	0	0	2	2
03	PROVIDED	2	4	0	2	3	3	0	0	1	1
	REQ'D	4	4	0		3	3	0	0	1	1
04	PROVIDED	2	4	1	2	3	3	1	1	1	1
	REQ'D	4	4	0		3	3	0	0	1	1

SPECIAL APPROVALS
Special Approval: (Local Jurisdiction, Department of Insurance, OCS, DPI, DHHS, ICC, etc., Describe Below
New Hanover County Inspections

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (remainder of this section is not applicable)
Exempt Building: ■ No ☐ Yes:
Climate Zone: ☐ N/A ■ 3A ☐ 4A ☐ 5A
Method of Compliance: ■ Energy Code ☐ Performance ■ Prescriptive
☐ ASHRAE 90.1 ☐ Performance ☐ Prescriptive
☐ (If "Other" specify source here)

THERMAL ENVELOPE: (Prescriptive Method Only)

Roof/Ceiling Assembly (each assembly)
Description of assembly: Rigid insulation over metal deck Rigid insulation over concrete & metal deck
U-Value of total assembly:
R-Value in each assembly: R-25ci R-25ci
U-Value of skylight:
Total percentage of skylights in each assembly: n/a
Exterior Walls (each assembly)
Description of assembly: Tilt-up Concrete Panels EIFS over metal stud wall framing
R-Value of total assembly:
R-Value of insulation: R-7.6ci R-13 + R-7.5ci
Openings (windows or doors with glazing): % of above grade walls
U-Value of assembly: U-0.45
Solar heat gain coefficient:
Projection Factor:
Door U-Values: Entrance: U-0.77, Opaque: U-0.70
Walls below grade (each assembly)
Description of assembly: n/a
U-Value of total assembly:
R-Value of insulation:
Floors over unconditioned space (each assembly)
Description of assembly: n/a
U-Value of total assembly:
R-Value of insulation:
Floor slabs on grade (each assembly)
Description of assembly: Concrete slab on grade, unheated.
U-Value of total assembly:
R-Value of insulation: NR = No requirement.
Horizontal/Vertical requirement:
Slab Heated:

STRUCTURAL DESIGN: SEE STRUCTURAL SHEET #: S0.1

MECHANICAL DESIGN: SEE MECHANICAL SHEET #: M-001

ELECTRICAL DESIGN: SEE ELECTRICAL SHEET #: E-001

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FP-102B	FIRE PROTECTION FLOOR PLAN - LEVEL 2 - AREA B
FP-102C	FIRE PROTECTION FLOOR PLAN - LEVEL 2 - AREA C
FP-103A	FIRE PROTECTION FLOOR PLAN - LEVEL 3 - AREA A
FP-103B	FIRE PROTECTION FLOOR PLAN - LEVEL 3 - AREA B
FP-104A	FIRE PROTECTION FLOOR PLAN - LEVEL 4 - AREA A
FP-104B	FIRE PROTECTION FLOOR PLAN - LEVEL 4 - AREA B
FP-105	FIRE PROTECTION ROOF PLAN - OVERALL

ELECTRICAL

E-001	ELECTRICAL LEGEND
E-002	ELECTRICAL LUMINAIRE SCHEDULE
E-100	ELECTRICAL POWER SITE PLAN
E-101A	ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA A
E-101B	ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA B
E-101C	ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA C
E-102A	ELECTRICAL POWER FLOOR PLAN - LEVEL 2 - AREA A
E-102B	ELECTRICAL POWER FLOOR PLAN - LEVEL 2 - AREA B
E-102C	ELECTRICAL POWER FLOOR PLAN - LEVEL 2 - AREA C
E-103A	ELECTRICAL POWER FLOOR PLAN - LEVEL 3 - AREA A
E-103B	ELECTRICAL POWER FLOOR PLAN - LEVEL 3 - AREA B
E-104A	ELECTRICAL POWER FLOOR PLAN - LEVEL 4 - AREA A
E-104B	ELECTRICAL POWER FLOOR PLAN - LEVEL 4 - AREA B
E-105	ELECTRICAL POWER ROOF PLAN - OVERALL
E-111	ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 1
E-112	ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 2
E-113	ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 3
E-114	ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 4
E-201A	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA A
E-201B	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA B
E-201C	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA C
E-202A	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA A
E-202B	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA B
E-202C	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA C
E-203A	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 3 - AREA A
E-203B	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 3 - AREA B
E-204A	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 4 - AREA A
E-204B	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 4 - AREA B
E-205	ELECTRICAL LIGHTING FACADE ELEVATIONS
E-301	ELECTRICAL ENLARGED POWER PLANS
E-302	ELECTRICAL ENLARGED POWER PLANS
E-401	ELECTRICAL RISER DIAGRAM EOC
E-402	ELECTRICAL RISER DIAGRAM TOWER
E-501	ELECTRICAL SCHEDULES
E-502	ELECTRICAL SCHEDULES
E-503	ELECTRICAL SCHEDULES
E-504	ELECTRICAL SCHEDULES
E-505	ELECTRICAL SCHEDULES
E-506	ELECTRICAL SCHEDULES
E-507	ELECTRICAL SCHEDULES
E-508	ELECTRICAL SCHEDULES
E-509	ELECTRICAL SCHEDULES
E-510	ELECTRICAL SCHEDULES
E-511	ELECTRICAL SCHEDULES
E-512	ELECTRICAL SCHEDULES
E-601	ELECTRICAL DETAILS - SITE
E-602	ELECTRICAL DETAILS - GROUNDING
E-604	ELECTRICAL DETAILS
E-606	ELECTRICAL DETAILS
E-607	ELECTRICAL DETAILS - LIGHTING CONTROLS

FIRE ALARM

FA-001	FIRE ALARM NOTES AND LEGEND
FA-002	FIRE ALARM RISER DIAGRAM
FA-101A	FIRE ALARM FLOOR PLAN - LEVEL 1 - AREA A
FA-101B	FIRE ALARM FLOOR PLAN - LEVEL 1 - AREA B
FA-101C	FIRE ALARM FLOOR PLAN - LEVEL 1 - AREA C
FA-102A	FIRE ALARM FLOOR PLAN - LEVEL 2 - AREA A
FA-102B	FIRE ALARM FLOOR PLAN - LEVEL 2 - AREA B
FA-102C	FIRE ALARM FLOOR PLAN - LEVEL 2 - AREA C
FA-103A	FIRE ALARM FLOOR PLAN - LEVEL 3 - AREA A
FA-103B	FIRE ALARM FLOOR PLAN - LEVEL 3 - AREA B
FA-104A	FIRE ALARM FLOOR PLAN - LEVEL 4 - AREA A
FA-104B	FIRE ALARM FLOOR PLAN - LEVEL 4 - AREA B
FA-105	FIRE ALARM ROOF PLAN - OVERALL

SECURITY

NUMBER	NAME
SC-001	SECURITY LEGEND AND NOTES
SC-101A	SECURITY FLOOR PLAN - LEVEL 1 - AREA A
SC-101B	SECURITY FLOOR PLAN - LEVEL 1 - AREA B
SC-101C	SECURITY FLOOR PLAN - LEVEL 1 - AREA C
SC-102A	SECURITY FLOOR PLAN - LEVEL 2 - AREA A
SC-102B	SECURITY FLOOR PLAN - LEVEL 2 - AREA B
SC-102C	SECURITY FLOOR PLAN - LEVEL 2 - AREA C
SC-103A	SECURITY FLOOR PLAN - LEVEL 3 - AREA A
SC-103B	SECURITY FLOOR PLAN - LEVEL 3 - AREA B
SC-104A	SECURITY FLOOR PLAN - LEVEL 4 - AREA A
SC-104B	SECURITY FLOOR PLAN - LEVEL 4 - AREA B
SC-501	SECURITY DETAILS

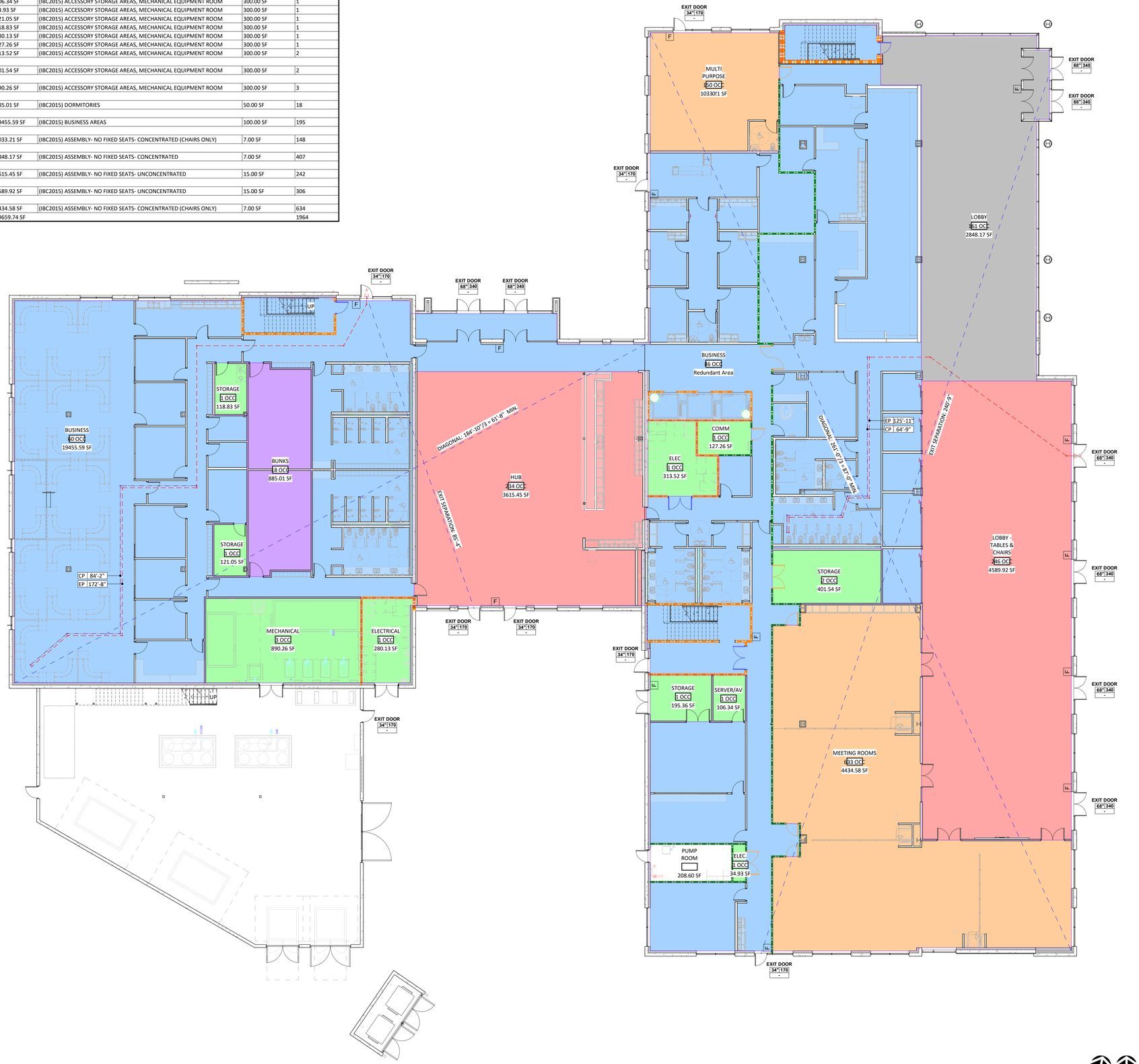
AUDIO VISUAL

AV-000	AV LEGEND AND NOTES
AV-101A	AUDIO VISUAL FLOOR PLAN - LEVEL 1 - AREA A
AV-101B	AUDIO VISUAL FLOOR PLAN - LEVEL 1 - AREA B
AV-101C	AUDIO VISUAL FLOOR PLAN - LEVEL 1 - AREA C
AV-102A	AUDIO VISUAL FLOOR PLAN - LEVEL 2 - AREA A
AV-102B	AUDIO VISUAL FLOOR PLAN - LEVEL 2 - AREA B
AV-102C	AUDIO VISUAL FLOOR PLAN - LEVEL 2 - AREA C
AV-103A	AUDIO VISUAL FLOOR PLAN - LEVEL 3 - AREA A
AV-103B	AUDIO VISUAL FLOOR PLAN - LEVEL 3 - AREA B
AV-104A	AUDIO VISUAL FLOOR PLAN - LEVEL 4 - AREA A
AV-104B

LIFE SAFETY- OCCUPANCY- LEVEL 1

NAME	AREA	AREA FUNCTION (OLF)	AREA PER OCCUPANT	OCCUPANTS_ CALCULATED
PUMP ROOM	208.60 SF	(none)		
STORAGE	195.36 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
SERVER/AV	106.34 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELEC.	34.93 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	121.05 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	118.83 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELECTRICAL	280.13 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
COMM	127.26 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELEC	313.52 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	2
STORAGE	401.54 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	2
MECHANICAL	890.26 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	3
BUNKS	885.01 SF	(IBC2015) DORMITORIES	50.00 SF	18
BUSINESS	19455.59 SF	(IBC2015) BUSINESS AREAS	100.00 SF	195
MULTI PURPOSE	1033.21 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	148
LOBBY	2848.17 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED	7.00 SF	407
HUB	3615.45 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED	15.00 SF	242
LOBBY - TABLES & CHAIRS	4589.92 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED	15.00 SF	306
MEETING ROOMS	4434.58 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	634
	39659.74 SF			1964

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ARCH D ENGINEERING SIZE



OCCUPANCY TYPES

- (IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- (IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED
- (IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)
- (IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED
- (IBC2015) BUSINESS AREAS
- (IBC2015) DORMITORIES

LEGEND - CODE COMP PLANS

- CP 19'-7" — DISTANCE- COMMON PATH OF TRAVEL
- EP 19'-7" — DISTANCE- EGRESS PATH
- DE 19'-7" — DISTANCE- DEAD END CORRIDOR
- PATH DISTANCE
- PATH

BUILDING ELEMENTS

- EXISTING PARTITION TO REMAIN
- TEMPORARY PARTITION
- SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 3 HR FIRE BARRIER
- 4 HR FIRE BARRIER

EXIT DOOR X X X

- EGRESS WIDTH
- EXIT CAPACITY
- ANTICIPATED LOAD

- EXIT SIGN: AT EXIT (ONE SIDED)
- EXIT SIGN: EXIT DIRECTION (ONE SIDED)
- EXIT SIGN: MULTIPLE EXIT DIRECTION (ONE SIDED)
- EXIT SIGN: TWO FILLED QUADRANTS INDICATE TWO SIDED SIGN (HATCHED AREAS INDICATE DIRECTIONS SIGN IS VISIBLE FROM)
- FEC11, FEC12, FE01, FEC13 — FIRE EXTINGUISHERS

GENERAL NOTES - CODE PLANS

1. FIRE RESISTANCE RATINGS SHOWN ARE MINIMUM RATINGS REQUIRED. REFER TO PARTITION TYPES ON A-001, AND SPECIFICATIONS, FOR MORE INFORMATION
2. FIRE RESISTANCE RATINGS IN PARTITIONS ARE SHOWN WHERE PARTITIONS ARE NOT CUT BY DOORS, WINDOWS, STOREFRONTS, OR OTHER OBJECTS. RATED PARTITION MAY EXIST ABOVE OBJECTS.

TRUE NORTH / PROJECT NORTH

CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL CORPORATION CERT NO. 00417 SOUTH CAROLINA WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

SHEET NAME:
LIFE SAFETY LEVEL 1

ORIG SUBMISSION:
CURRENT: 2020.12.16
GMP SET

SHEET:
G-101

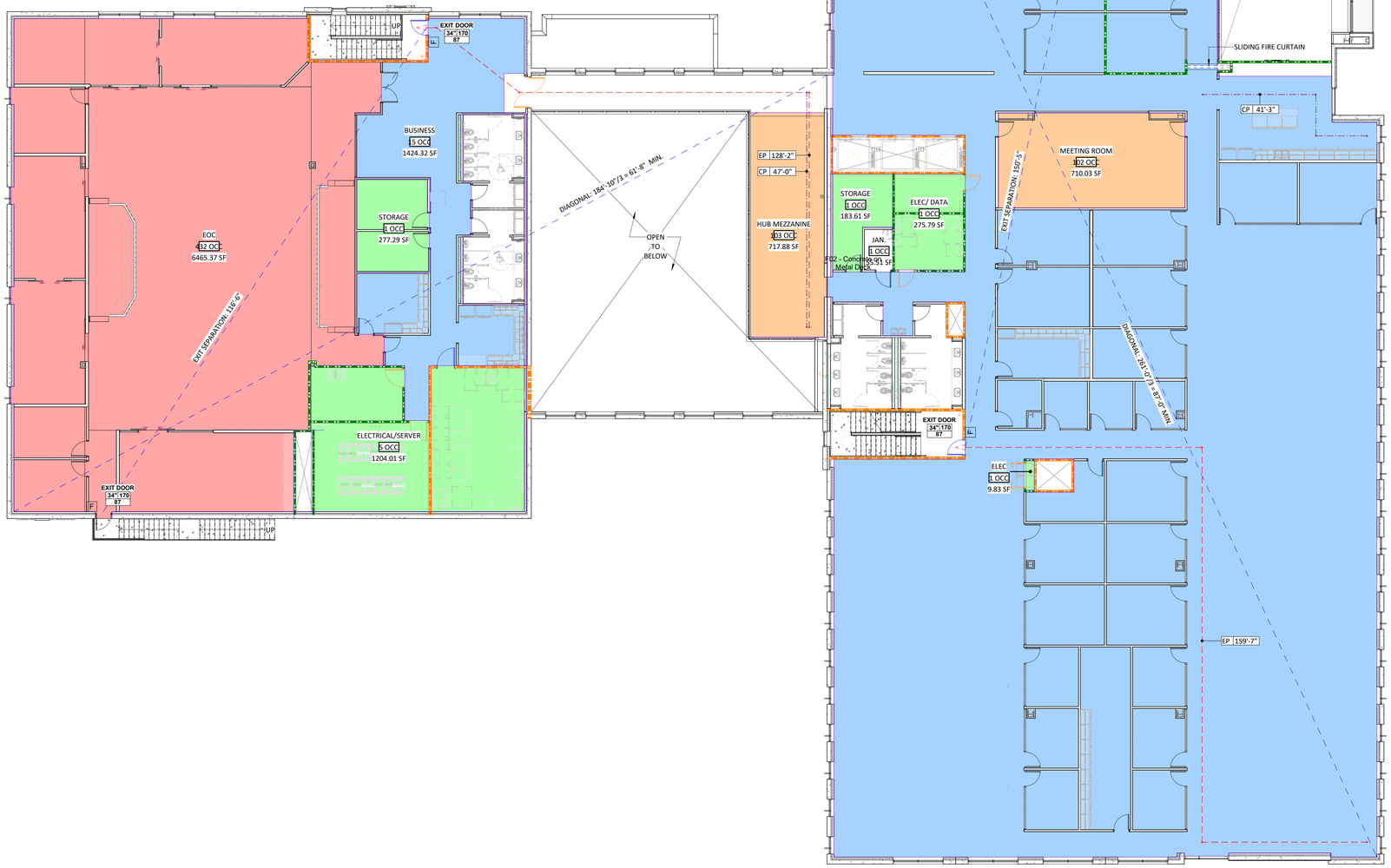
GMP SET

12/16/2020 10:03:00 AM

A1 / G-101	CODE COMPLIANCE PLAN- LEVEL 1	3/32" = 1'-0"	LEGEND - CODE PLAN

LIFE SAFETY- OCCUPANCY- LEVEL 2

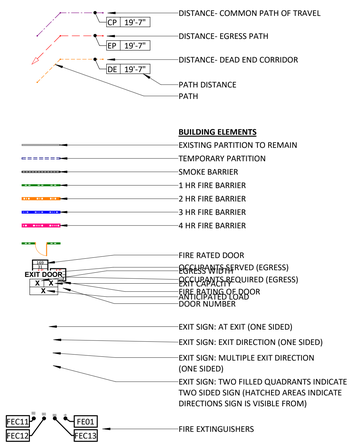
NAME	AREA	AREA FUNCTION (OLF)	AREA PER OCCUPANT	OCCUPANTS_ CALCULATED
BUSINESS	Redundant Area	(IBC2015) BUSINESS AREAS	100.00 SF	
EOC	Redundant Area	(IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED	15.00 SF	
HUB MEZZANINE	Redundant Area	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	
BUSINESS	Redundant Area	(IBC2015) BUSINESS AREAS	100.00 SF	
ELEC/ DATA	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
ELECTRICAL/SERVER	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
JAN.	Redundant Area	(none)		
ELEC	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
ELEC	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
MEETING ROOM	Redundant Area	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	
ELEC/ DATA	275.79 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	277.29 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	183.61 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
JAN.	55.51 SF	(none)		
ELEC	9.83 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELEC	11.96 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELECTRICAL/SERVER	1204.01 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	5
BUSINESS	1424.32 SF	(IBC2015) BUSINESS AREAS	100.00 SF	15
MEETING ROOM	710.03 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	102
HUB MEZZANINE	717.88 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	103
BUSINESS	20646.81 SF	(IBC2015) BUSINESS AREAS	100.00 SF	207
EOC	6465.37 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED	15.00 SF	432
	31982.38 SF			869



OCCUPANCY TYPES

- (IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- (IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)
- (IBC2015) ASSEMBLY- NO FIXED SEATS- UNCONCENTRATED
- (IBC2015) BUSINESS AREAS

LEGEND - CODE COMP PLANS



GENERAL NOTES - CODE PLANS

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2. FIRE RESISTANCE RATINGS IN PARTITIONS ARE SHOWN WHERE PARTITIONS ARE NOT CUT BY DOORS, WINDOWS, STOREFRONTS, OR OTHER OBJECTS. RATED PARTITION MAY EXIST ABOVE OBJECTS.

TRUE NORTH PROJECT NORTH

CAPE FEAR FD STONEWATER

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

SHEET NAME:
LIFE SAFETY LEVEL 2

ORIG SUBMISSION:
CURRENT: 2020.12.16
GMP SET

SHEET:
G-102

GMP SET

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL PLOTTED SCALE

12/16/2020 10:03:26 AM

A1	CODE COMPLIANCE PLAN- LEVEL 2	3/32" = 1'-0"	LEGEND - CODE PLAN
G-102			

1 2 3 4 5 6

E D C B A

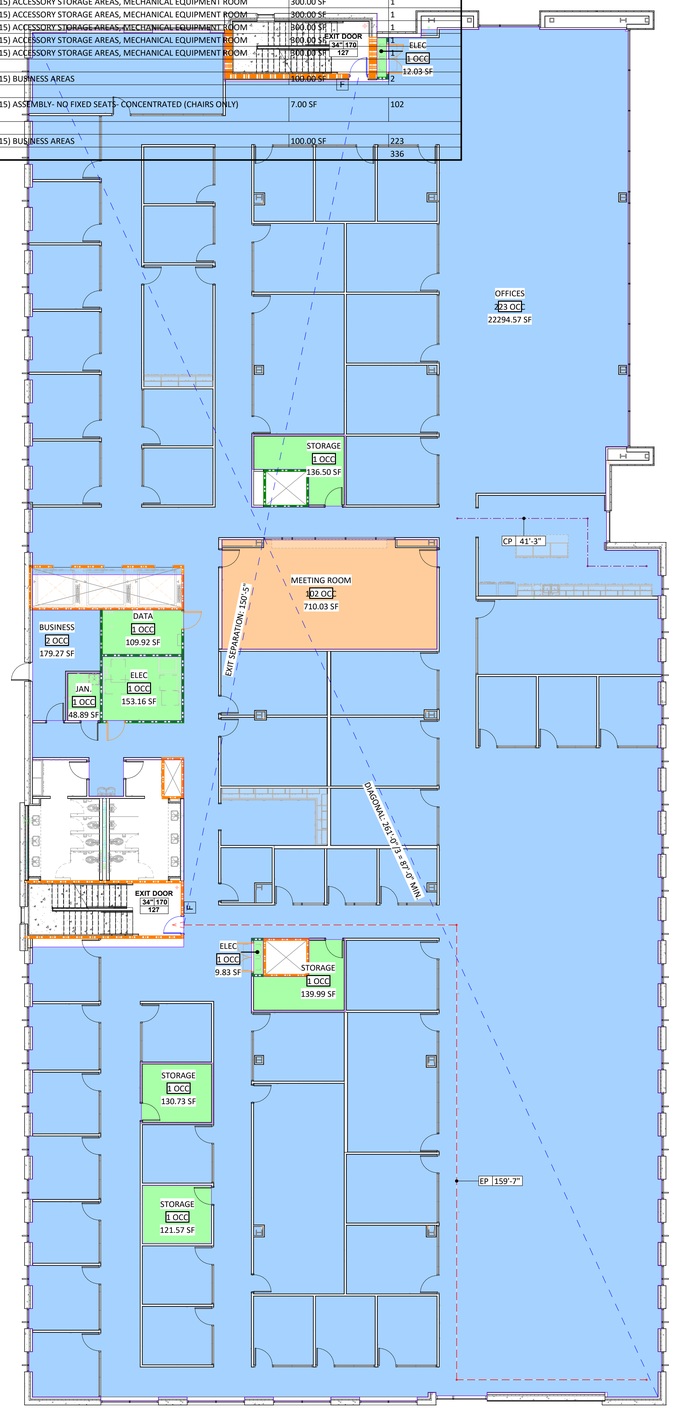
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

LIFE SAFETY- OCCUPANCY- LEVEL 3

NAME	AREA	AREA FUNCTION (OLF)	AREA PER OCCUPANT	OCCUPANTS_ CALCULATED
OFFICES	Redundant Area	(IBC2015) BUSINESS AREAS	100.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
BUSINESS	Redundant Area	(IBC2015) BUSINESS AREAS	100.00 SF	
DATA	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
JAN.	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
ELEC	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
ELEC	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
MEETING ROOM	Redundant Area	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	
ELEC	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	136.50 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	139.99 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	130.73 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
DATA	109.92 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
JAN.	48.89 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	121.57 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELEC	9.83 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELEC	153.16 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELEC	12.03 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
BUSINESS	179.27 SF	(IBC2015) BUSINESS AREAS	100.00 SF	2
MEETING ROOM	710.03 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	102
OFFICES	22294.57 SF	(IBC2015) BUSINESS AREAS	100.00 SF	223
	24046.47 SF			336

OCCUPANCY TYPES

- (IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- (IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)
- (IBC2015) BUSINESS AREAS

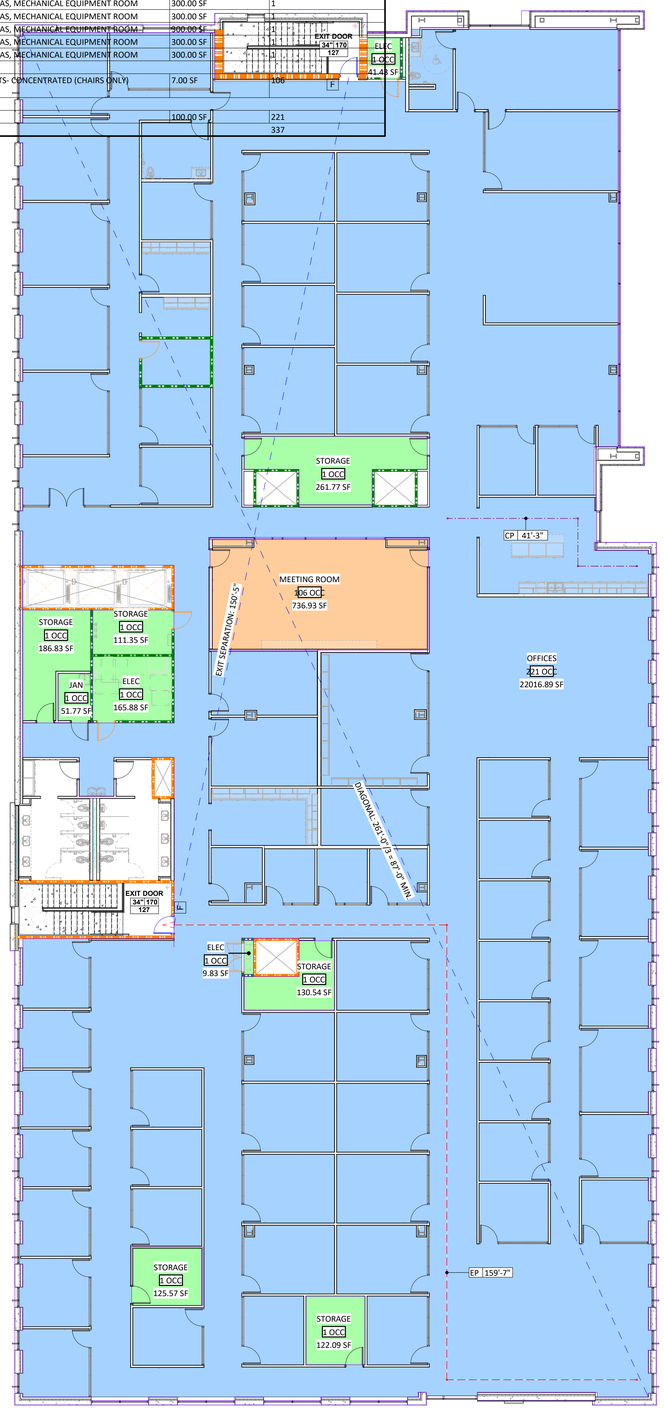


LIFE SAFETY- OCCUPANCY- LEVEL 4

NAME	AREA	AREA FUNCTION (OLF)	AREA PER OCCUPANT	OCCUPANTS_ CALCULATED
OFFICES	Redundant Area	(IBC2015) BUSINESS AREAS	100.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
MEETING ROOM	Redundant Area	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
ELEC	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
ELEC	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
JAN	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
ELEC	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	Redundant Area	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	
STORAGE	111.35 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	125.57 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	186.83 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELEC	41.43 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	122.09 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	130.54 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELEC	165.88 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
JAN	51.77 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
ELEC	9.83 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
STORAGE	261.77 SF	(IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300.00 SF	1
MEETING ROOM	736.93 SF	(IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)	7.00 SF	106
OFFICES	22016.89 SF	(IBC2015) BUSINESS AREAS	100.00 SF	221
	23960.89 SF			337

OCCUPANCY TYPES

- (IBC2015) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- (IBC2015) ASSEMBLY- NO FIXED SEATS- CONCENTRATED (CHAIRS ONLY)
- (IBC2015) BUSINESS AREAS



CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 50417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

SHEET NAME:
LIFE SAFETY PLAN- LEVEL 3 & 4

ORIG SUBMISSION:

CURRENT: 2020.12.16
GMP SET

SHEET:
G-103

GMP SET

12/16/2020 10:03:58 AM

A1 / G-103	CODE COMPLIANCE PLAN- LEVEL 3	3/32" = 1'-0"
A4 / G-103	CODE COMPLIANCE PLAN- LEVEL 4	3/32" = 1'-0"

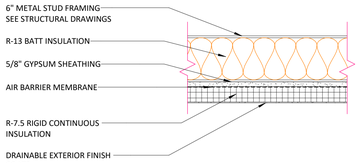
1 2 3 4 5 6

E D C B A

CONSTRUCTION SUBSYSTEMS

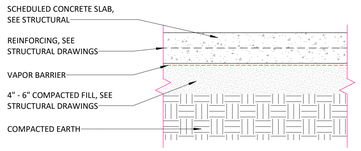
CEILING/SOFFIT SYSTEMS

C01 **EIFS SOFFIT SYSTEM**

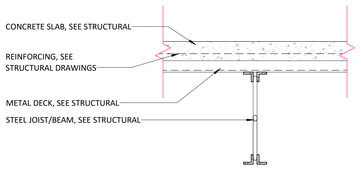


FLOOR SYSTEMS

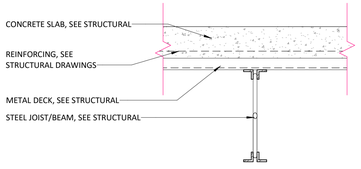
F01 **CONCRETE SLAB ON GRADE**



F02 **CONCRETE ON METAL DECK**

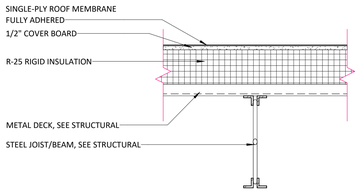


F02a **CONCRETE ON METAL DECK - THICKENED**

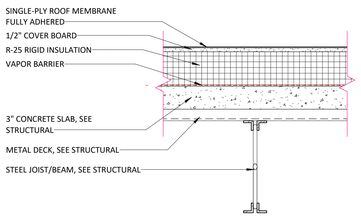


ROOF SYSTEMS

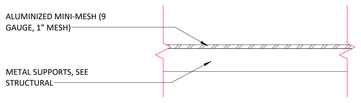
R01 **METAL DECK WITH INSULATION AND MEMBRANE ROOF**



R02 **CONCRETE OVER METAL DECK WITH INSULATION AND MEMBRANE ROOF**



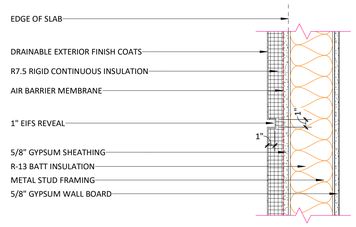
R03 **PROTECTIVE METAL WIRE SCREENING**



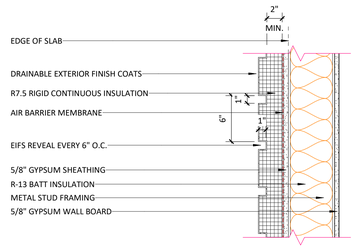
EXTERIOR WALL SYSTEMS

W01 **6" COLD-FORMED METAL FRAMING WITH 2" EIFS SYSTEM**

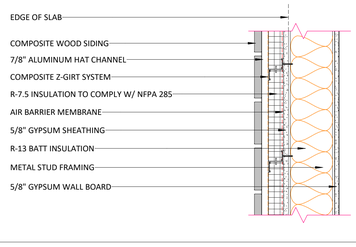
W01a **8" COLD-FORMED METAL FRAMING WITH 2" EIFS SYSTEM**



W02 **8" COLD-FORMED METAL FRAMING WITH EIFS SYSTEM**

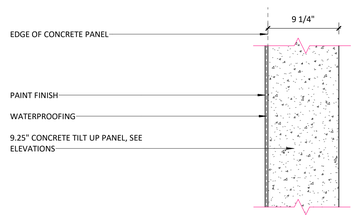


W03 **6" COLD-FORMED METAL FRAMING WALL WITH COMPOSITE SIDING SYSTEM - HORIZONTAL APPLICATION**

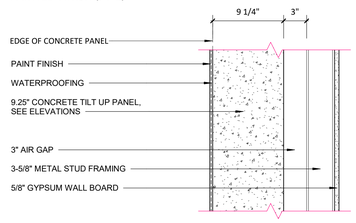


W04 **9.25" TILT UP CONCRETE WALL WITH PAINTED FINISH (PT-1)**

W04a **9.25" TILT UP CONCRETE WALL WITH PAINTED FINISH (PT-2)**



W05 **9.25" TILT UP CONCRETE WALL WITH NO INSULATION WITH PAINTED FINISH (PT-1)**



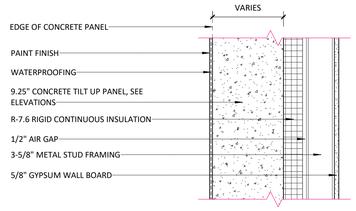
EXTERIOR WALL SYSTEMS

W06 **9.25" TILT UP CONCRETE WALL WITH PAINTED FINISH (PT-1)**

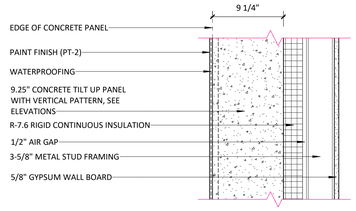
W06a **9.25" TILT UP CONCRETE WALL WITH PAINTED FINISH (PT-2)**

W06b **9.25" TILT UP CONCRETE WALL WITH PAINTED FINISH (PT-3)**

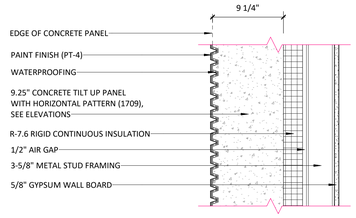
W06c **7.25" TILT UP CONCRETE WALL WITH PAINTED FINISH (PT-3)**



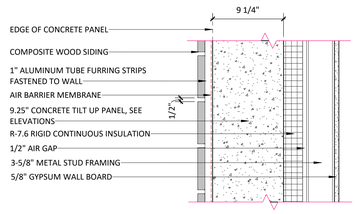
W07 **9.25" TILT UP CONCRETE WALL WITH VERTICAL PATTERN WITH PAINTED FINISH (PT-2)**



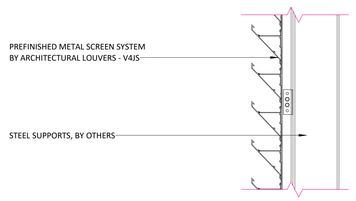
W08 **9.25" TILT UP CONCRETE WALL WITH HORIZONTAL PATTERN WITH PAINTED FINISH (PT-4)**

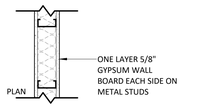


W09 **9.25" TILT UP CONCRETE WALL WITH COMPOSITE SIDING SYSTEM - HORIZONTAL APPLICATION**



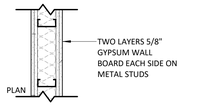
W10 **PREFINISHED METAL LOUVER UTILITY SCREEN WALL**





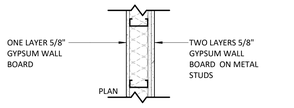
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMB	STC*
3A	3-5/8"	4 7/8"			
3AS	3-5/8"	4 7/8"			
3A1S	3-5/8"	4 7/8"	1	U419	
6A	6"	7 1/4"			
6AS	6"	7 1/4"			

A METAL STUD - ONE LAYER



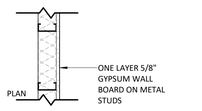
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMB	STC*
3A2	3-5/8"	6 1/8"	2	U419	
6A2	6"	8 1/2"		U419	

A METAL STUD - TWO LAYERS



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMB	STC*
3B1	3-5/8"	5 1/2"	1	U419	
3B1S	3-5/8"	5 1/2"	1	U419	

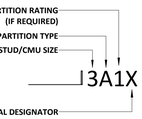
B METAL STUD - ONE/TWO LAYERS



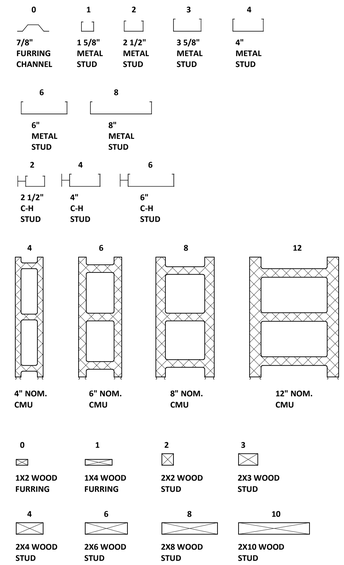
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMB	STC*
0F	0-7/8"	1 1/2"			
1F	1-5/8"	2 1/4"			
2F	2-1/2"	3 1/8"			
2FS	2-1/2"	3 1/8"			
3F	3-5/8"	4 1/4"			
3FS	3-5/8"	4 1/4"			
6F	6"	6 5/8"			
6FS	6"	6 5/8"			

F METAL STUD FURRED - ONE LAYER

PARTITION TAG KEY



PARTITION MATERIAL & SIZE



PARTITION TYPES LEGEND

A - METAL STUD- ALL INCLUDE SOUND ATTENUATION BATT
B - METAL STUD UNBALANCED
C - CHASE
F - FURRED
M - MASONRY
R - RESILIENT CHANNEL
S - SHAFT
T - CONCRETE
W - WOOD STUD BALANCED
X - WOOD STUD UNBALANCED
Y - WOOD STUD FURRED

PARTITION RATING

30 - 30 MINUTES RATED PARTITION OR BARRIER
1 - 1 HOUR RATED PARTITION OR BARRIER
2 - 2 HOUR RATED PARTITION OR BARRIER
3 - 3 HOUR FIRE WALL
4 - 4 HOUR FIRE WALL
5 - SMOKE BARRIER

ADDITIONAL DESIGNATORS

S - SOUND ATTENUATION BLANKET, PARTITION SHALL EXTEND TO THE STRUCTURE ABOVE, PROVIDE ACOUSTICAL SEALANT AT TOP AND BOTTOM
Z - TWO LAYERS OF GWB ON EACH SIDE W/ SOUND ATTENUATION BLANKET, TO DECK, NON-RATED

PARTITION NOTES

1. NON-RATED PARTITIONS, EXCEPT THOSE WITH "S" DESIGNATOR, GWB SHALL EXTEND 6" ABOVE THE CEILING W/ SOUND ATTENUATION U.N.O.
2. AT WET AREAS, PROVIDE MRGWB OR MMRGGWB AT NON-RATED PARTITIONS AND FRMRGWB OR FRMMRGWB AT RATED PARTITIONS.
3. ON PARTITIONS RECEIVING WALL TILE (REFER TO FINISH SCHEDULE) PROVIDE CEMENTITIOUS BACKER BOARD BEHIND PORTIONS OF PARTITION RECEIVING TILE ONLY.

PARTITION TAG EXAMPLES

3A 3 5/8" METAL STUD, NON-RATED, GWB 6" ABOVE CLG W/SAFB
3AS 3 5/8" METAL STUD, NON-RATED, EXTEND TO DECK W/SAFB
3A1S 3 5/8" METAL STUD, 1 HOUR RATED W/MINERAL WOOL
3A5 3 5/8" METAL STUD, SMOKE BARRIER
4S2 4" C-H METAL STUD, 2 HOUR RATED
8M 8" NOM. CMU, NON-RATED, MIN. COURSING ABOVE CLG
8M3 8" NOM. CMU, 3 HOUR RATED

CAPE FEAR FD STONEWATER

LS3P

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WILMINGTON, NORTH CAROLINA 28401
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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 00417 NORTH CAROLINA WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
CONSTRUCTION SUBSYSTEMS & PARTITION TYPES

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-001

GMP SET

12/16/2020 9:29:05 AM

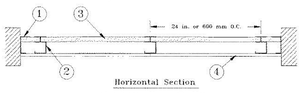
E D C B A

1 2 3 4 5 6

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

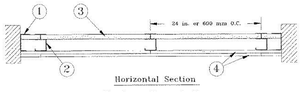
Design No. U415
August 05, 2020
Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

System A – 1 Hr.



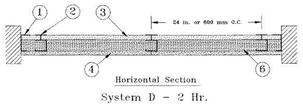
Horizontal Section

System B – 2 Hr.



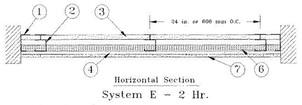
Horizontal Section

System C – 2 Hr.



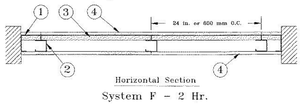
Horizontal Section

System D – 2 Hr.



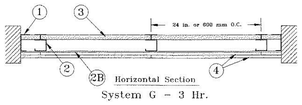
Horizontal Section

System E – 2 Hr.



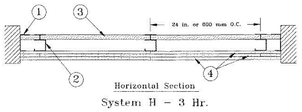
Horizontal Section

System F – 2 Hr.



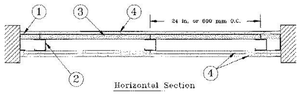
Horizontal Section

System G – 3 Hr.



Horizontal Section

System H – 3 Hr.



Horizontal Section

1. Floor, Side and Ceiling Runners — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. Steel Studs — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. Steel Studs — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. Furring Channels — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. Furring Channels — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL LLC — Types RSIC-1, RSIC-1 (2.75)

2E. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. Steel Framing Members* — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

2G. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. Steel Framing Members* — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

2H. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. Steel Framing Members* — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

2I. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. Steel Framing Members* — Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

3. Gypsum Board* — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

CGC INC — Type SLX
UNITED STATES GYPSUM CO — Type SLX
USG BORAL DRYWALL SFZ LLC — Type SLX
USG MEXICO S A DE C V — Type SLX

4. Gypsum Board* —
System A — 1 Hr
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.
CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX
UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX. When ULIX is used insulation, Item 6, Batts and Blankets* is required and minimum stud depth is 4 in.
USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX
USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System B — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.
CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX
UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.
USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX
USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.
CGC INC — Types IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE
USG BORAL DRYWALL SFZ LLC — Type ULTRACODE
USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.
CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX
UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.
USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX
USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.
CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX
UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX
USG BORAL DRYWALL SFZ LLC — Type C; 5/8 in. Types C, SCX, SGX, USGX
USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System F — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.
CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX
UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.
USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX
USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.
CGC INC — Types C, IP-X2, IPC-AR, WRC
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C
UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC
USG BORAL DRYWALL SFZ LLC — Type C
USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.
CGC INC — Types C, IP-X2, IPC-AR, WRC
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C
UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC
USG BORAL DRYWALL SFZ LLC — Type C
USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr
Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.
CGC INC — Types IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE
USG BORAL DRYWALL SFZ LLC — Type ULTRACODE
USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).
RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Joint Tape and Compound — (Not Shown)
Systems A, B, C, E, F, G, H, I
Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets* —
Systems A, B, E, F, G, H, I
(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

System A With Type ULIX Gypsum Boards
Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

Systems C & D
Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.
ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m3
THERMAFIBER INC — Type SAFB, SAFB FF

7. Cementitious Backer Units* — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.
UNITED STATES GYPSUM CO — Type DCB

8. Laminating Adhesive* — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. Lead Batten Strips — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
10A. Lead Discs — (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead disc compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. Lead Batten Strips — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. Lead Tabs — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

CAPE FEAR FD STONEWATER

LS3P

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WILMINGTON, NORTH CAROLINA 28401
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 00417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
UL ASSEMBLY U415

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-005

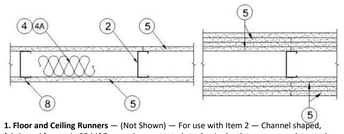
GMP SET

12/16/2020 9:29:06 AM

1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

Design No. U419
August 05, 2020
Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track
CRACO MFG INC — SmartTrack25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track
FUSION BUILDING PRODUCTS — Viper25™ Track
IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track
FUSION BUILDING PRODUCTS — Viper20™ Track
IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20
SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20
UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK
DMFCWBS LLC — ProTRAK
MBA METAL FRAMING — ProTRAK
RAM SALES LLC — Ram ProTRAK
STEEL STRUCTURAL PRODUCTS LLC — Tri-S ProTRAK

1F. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100
FUSION BUILDING PRODUCTS — Viper20™ Track VT100
IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES LLC — TRUE-TRACK™

1J. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES LLC — Viper25™ Track

1K. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES LLC — Viper20™ Track

1L. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, LLC — AlphaTRAK

1M. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™
CRACO MFG INC — SmartStud25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™
FUSION BUILDING PRODUCTS — Viper25™
IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™
FUSION BUILDING PRODUCTS — Viper20™
IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20
SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20
UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD
DMFCWBS LLC — ProSTUD
MBA METAL FRAMING — ProSTUD
RAM SALES LLC — Ram ProSTUD
STEEL STRUCTURAL PRODUCTS LLC — Tri-S ProSTUD

2F. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES LLC — TRUE-STUD™

2I. Framing Members* — Steel Studs — (As an alternate to Item 2, For use with Items 5C or 5L or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
TELLING INDUSTRIES LLC — Viper25™

2J. Framing Members* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights
TELLING INDUSTRIES LLC — Viper20™

2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, LLC — AlphaSTUD

2O. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4B. Fiber, Sprayed* — (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints in opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

RATING, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 Layer, 5/8 in. thick	Optional
1	2-1/2	1 Layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 Layer, 3/4 in. thick	Optional
2	1-5/8	2 Layers, 1/2 in. thick	Optional
2	1-5/8	2 Layers, 5/8 in. thick	Optional
2	3-1/2	1 Layer, 3/4 in. thick	3 in.
3	1-5/8	3 Layers, 1/2 in. thick	Optional
3	1-5/8	2 Layers, 3/4 in. thick	Optional
3	1-5/8	3 Layers, 5/8 in. thick	Optional
4	1-5/8	4 Layers, 5/8 in. thick	Optional
4	1-5/8	4 Layers, 1/2 in. thick	Optional
4	2-1/2	2 Layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX
UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE
USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE
USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.
UNITED STATES GYPSUM CO — Type FRX-G, SHX.
USG MEXICO S A DE C V — Type SHX.

5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.
CGC INC — Type SCX, ULIX.
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX
UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.
USG BORAL DRYWALL SFZ LLC — Type SCX
USG MEXICO S A DE C V — Type SCX

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CGC INC — Type USGX
UNITED STATES GYPSUM CO — Type USGX
USG BORAL DRYWALL SFZ LLC — Type USGX
USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX
UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULIX
USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

RATING, Hr	Min Stud Depth, in. Items 2E	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 Layers, 1/2 in. thick	Optional
2	1-5/8	2 Layers, 5/8 in. thick	Optional
3	1-5/8	3 Layers, 1/2 in. thick	Optional
3	1-5/8	3 Layers, 5/8 in. thick	Optional
4	1-5/8	4 Layers, 5/8 in. thick	Optional
4	1-5/8	4 Layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX
UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE
USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE
USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULIX, ULX
UNITED STATES GYPSUM CO — Type ULIX, ULX
USG MEXICO S A DE C V — Type ULIX

5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Single layer system with Type ULIX: 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically.Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.Three layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL LLC — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

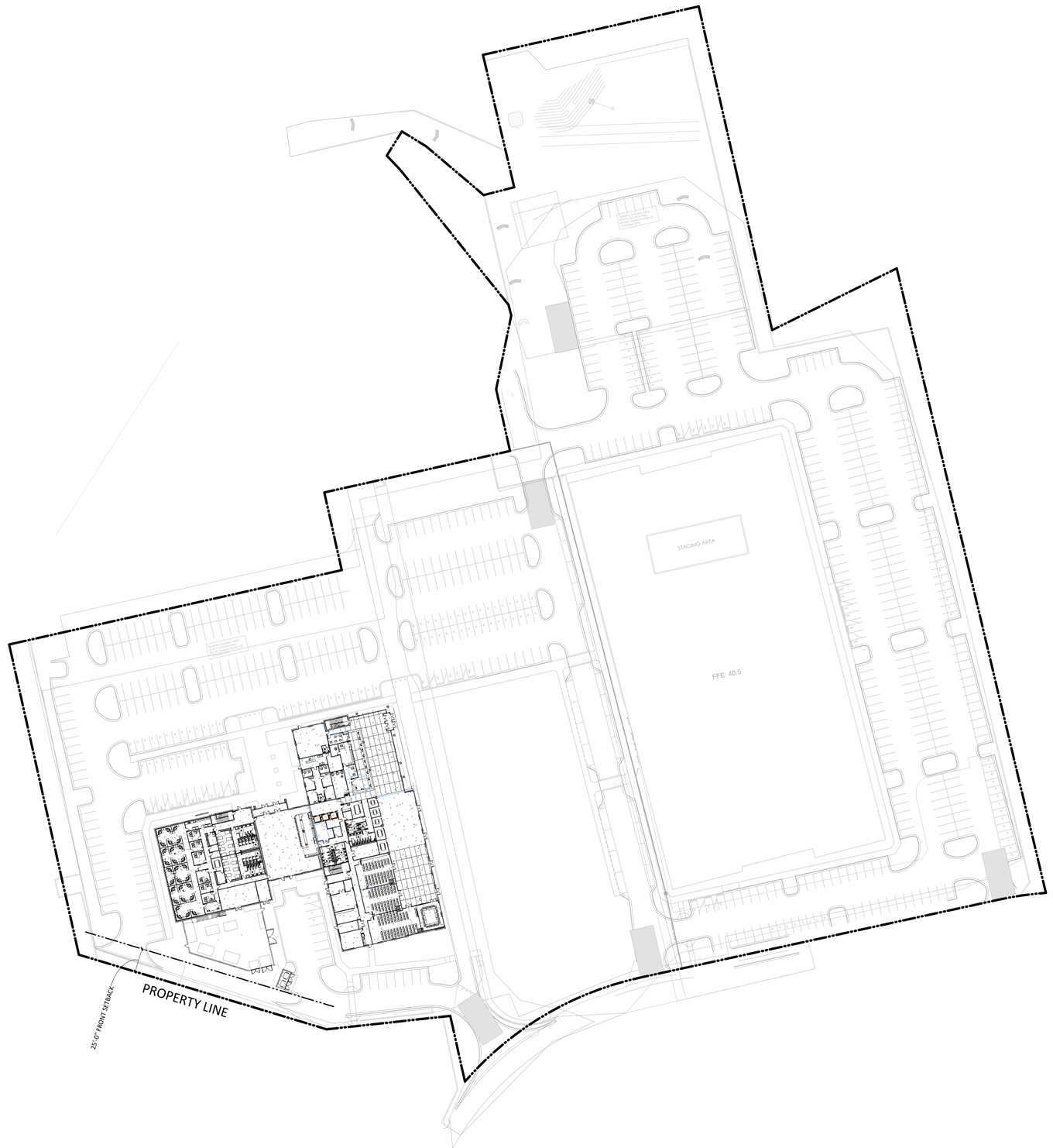
7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

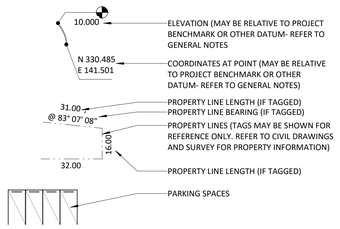
7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item



TRUE NORTH

LEGEND- SITE PLANS



A1 / A-100	ARCHITECTURAL SITE PLAN	1" = 50'-0"	A6 / A-100	LEGEND- SITE PLAN	1/32" = 1'-0"

CAPE FEAR FD STONEWATER

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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 50417 NORTH CAROLINA WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
ARCHITECTURAL SITE PLAN

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-100

GMP SET

12/16/2020 9:29:18 AM



GENERAL SHEET NOTES

1. DIMENSIONS TO FACE OF PARTITIONS ARE TO FACE OF STUD. FINISHES DEPICTED IN FINISH PLANS AND ELEVATIONS ARE NOT SHOWN ON PARTIAL FLOOR PLANS. REFER TO ENLARGED PLANS, ELEVATIONS, AND DETAILS.
2. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL.
3. FIRE AND SOUND RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING, DUCTWORK AND OTHER PENETRATIONS. ALL WORK IS TO BE BRACED TO STRUCTURE ABOVE.
4. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
5. SEE LIFE SAFETY PLANS FOR REQUIRED FIRE SEPARATION WALLS.
6. SEE SHEET A-002 FOR CONSTRUCTION SUBSYSTEMS AND PARTITION SCHEDULE.

A1 / A-101 — **OVERALL FLOOR PLAN- LEVEL 1** — 3/32" = 1'-0"

TRUE NORTH / PROJECT NORTH

12/16/2020 9:29:32 AM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

CAPE FEAR FD STONEWATER

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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL CORPORATION CERT NO. 50417 SOUTH CAROLINA WILMINGTON, NORTH CAROLINA

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

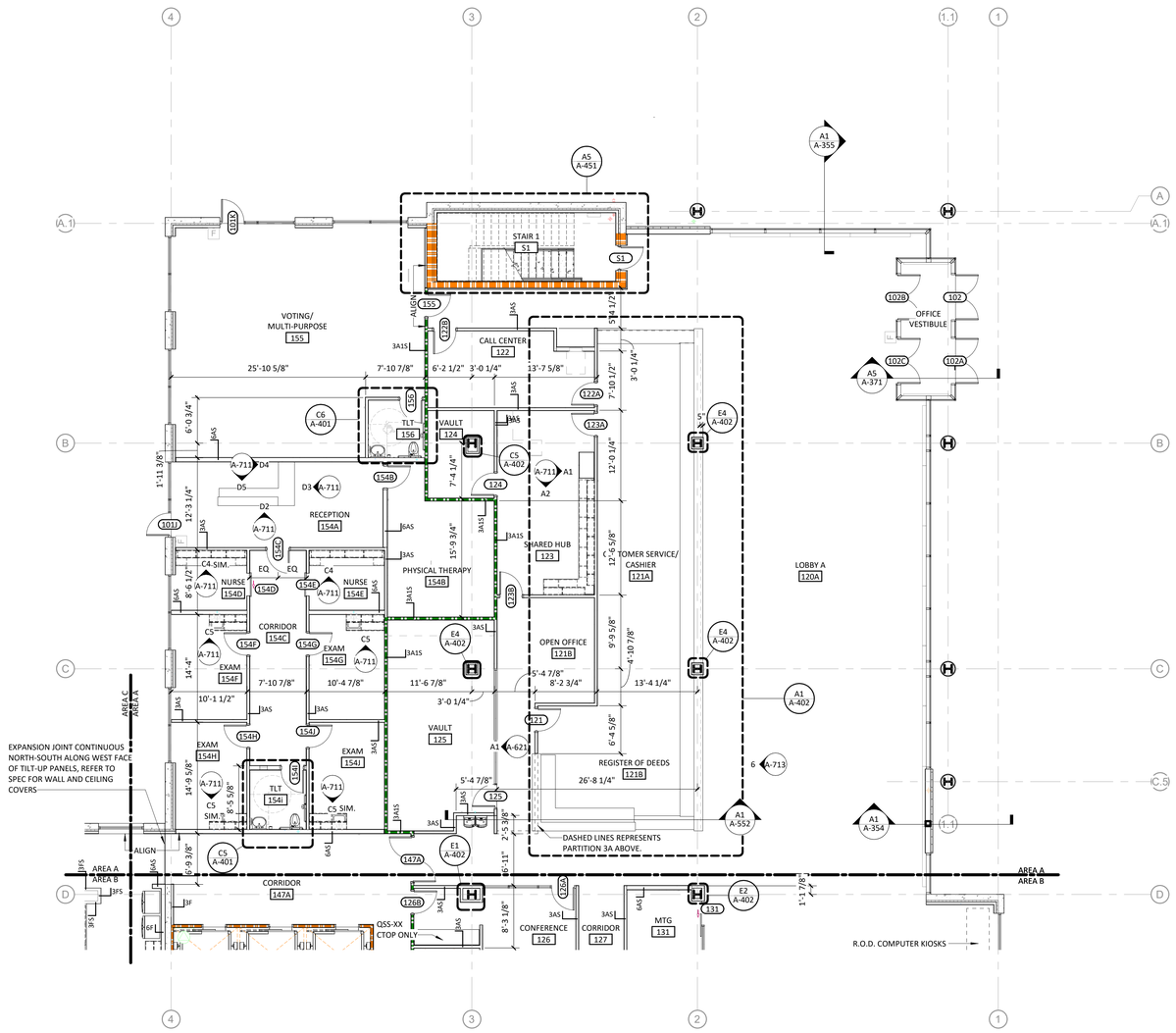
Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME: FLOOR PLAN- LEVEL 1

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET: **A-101**

GMP SET



GENERAL SHEET NOTES

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2. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL.
3. FIRE AND SOUND RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING, DUCTWORK AND OTHER PENETRATIONS. ALL GAPS FULLY SEALED. ALL WORK IS TO BE BRACED TO STRUCTURE ABOVE.
4. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
5. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM AND RELATED CONSTRUCTION.
6. AT ANY LOCATION WHERE AN INTERIOR WALL TERMINATES AT AN EXTERIOR STOREFRONT, INSTALL MULLION MATE AT INTERSECTION OF WALL AND STOREFRONT.
7. SEE LIFE SAFETY PLANS FOR REQUIRED FIRE SEPARATION WALLS.
8. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS AND PARTITION SCHEDULE.
9. SEE SHEET A-710 THROUGH A-713 FOR INTERIOR ELEVATIONS.
10. SEE SHEETS A-801 THROUGH A-804 FOR FINISH FLOORING, TRANSITIONS, PATTERNS AND WALL PROTECTION.
11. SEE SHEETS A-401 & A-402 FOR ENLARGED PLANS INDICATING ADDITIONAL DIMENSIONS AND PARTITION TYPES, ACCESORIES AND MOUNTING HEIGHTS
12. SEE STRUCTURAL DRAWINGS FOR SLAB DEPRESSIONS AND CUTOUTS.
13. WHERE STRUCTURAL STEEL MEMBERS ARE EXPOSED AND NOT CONCEALED W/OTHER CONSTRUCTION, PAINT FINISH TO MATCH STOREFRONT/ CURTAIN WALL FRAME SYSTEMS, TYP.
14. GYPSUM WALL BOARD ON EXTERIOR WALLS IS PART OF CORE & SHELL PHASE.
15. INSTALL PT WOOD BLOCKING IN WALLS AT ALL SCREEN LOCATIONS. SEE AV DRAWINGS.

PARTITION TYPE NOTES

1. ALL NON-DESIGNATED PARTITIONS SHALL BE TYPE **3A.**
2. TILE BACKER BOARD SHALL BE USED IN ALL LOCATIONS TO RECEIVE TILE FINISHES. REFER TO FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATIONS.
3. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DUCTWORK PRIOR TO FABRICATION OF PARTITION WALLS.
4. SHOULD CONDITIONS OCCUR WHERE A WALL IS UNABLE TO GO STRAIGHT UP TO STRUCTURE DUE TO PIPING, DUCTWORK, ETC., THE PARTITION (GYPSUM BOARD AND FRAMING) MAY JOG HORIZONTALLY ABOVE THE CEILING TO AVOID THE PROBLEM. RATED WALL INTEGRITY SHALL BE MAINTAINED.
5. WHERE STUDS EXTEND TO STRUCTURE AND GYPSUM WALLBOARD AND SOUND ATTENUATION BLANKETS EXTEND JUST ABOVE THE FINISH CEILING, CAP OFF PARTITION FINISHES WITH A RUNNER CHANNEL WHEN CEILING PLENUM IS USED AS A RETURN AIR PLENUM.
6. DIMENSIONAL CONFLICTS BETWEEN PARTITION TYPES AND THE ARCHITECTURAL FLOOR PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
7. SEE LIFE SAFETY PLANS FOR THE LOCATIONS OF SMOKE BARRIERS, SMOKE PARTITIONS AND FIRE-RATED PARTITIONS.
8. REFER TO UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE VOLUMES - CURRENT EDITION FOR SPECIFIC CONSTRUCTION REQUIREMENTS OF U.L. LISTED ASSEMBLIES.
9. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR TYPICAL U.L. LISTED PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE PROJECT-SPECIFIC U.L. LISTED ASSEMBLIES FOR PENETRATIONS.
10. REFER TO DETAIL MECH. DWGS. FOR TYPICAL WALL FRAMING FOR FIRE DAMPERS IN RATED WALLS. COORDINATE EXACT FRAMING REQUIREMENTS WITH FIRE DAMPER MANUFACTURER. (COORDINATE ALL PARTITION CONSTRUCTION WITH MECHANICAL PRIME CONTRACTOR PRIOR TO COMMENCING PARTITION CONSTRUCTION).

CAPE FEAR FD STONEWATER

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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 50417 SCHOOLHOUSE.BIZ WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

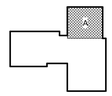
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
FLOOR PLAN- LEVEL 1- AREA A

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-101A

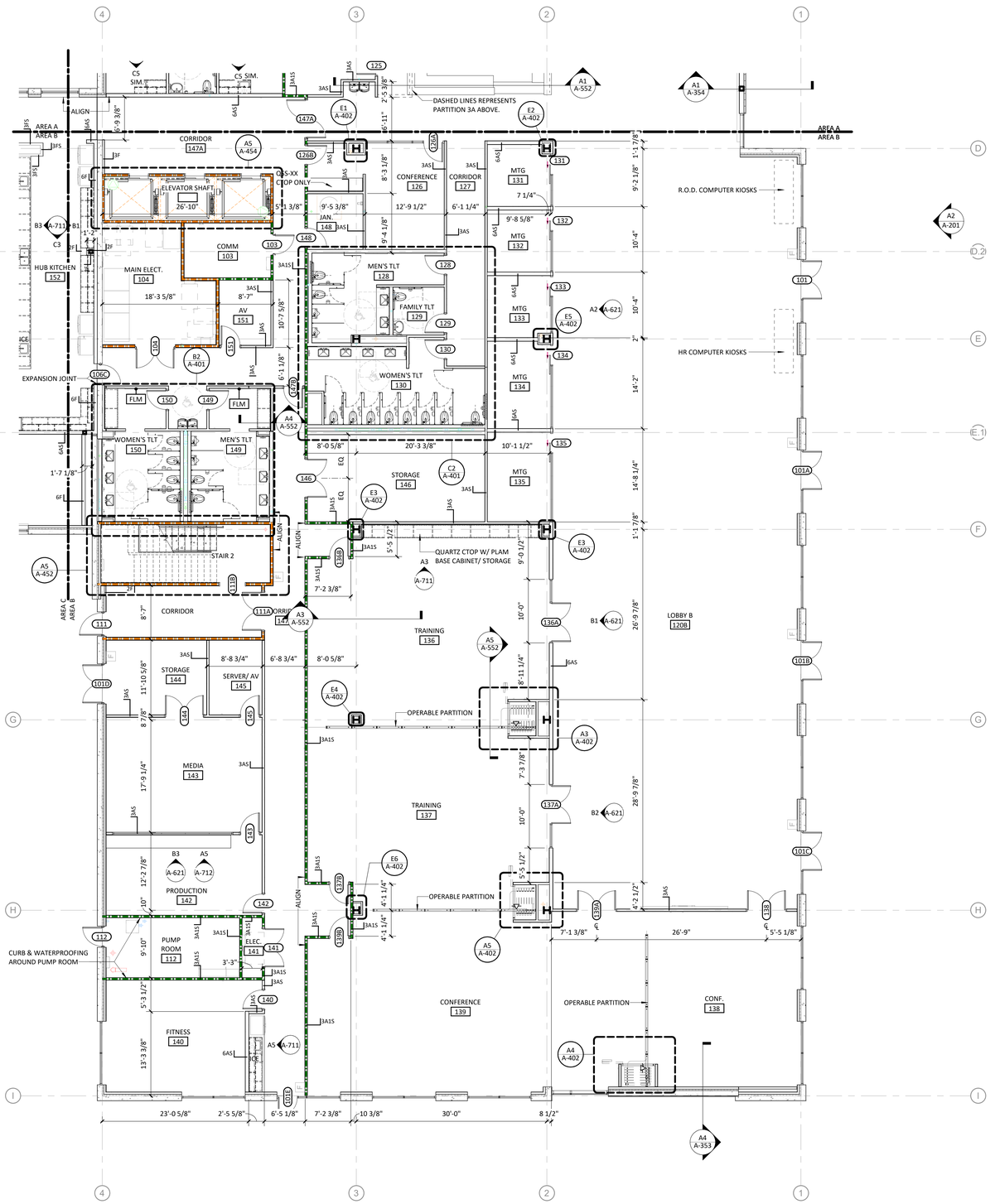
GMP SET

A1
A-101A

FLOOR PLAN- PARTIAL- LEVEL 1- AREA A

1/8" = 1'-0"

12/16/2020 9:29:39 AM



GENERAL SHEET NOTES

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2. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL.
3. FIRE AND SOUND RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING, DUCTWORK AND OTHER PENETRATIONS. ALL GAPS FULLY SEALED. ALL WORK IS TO BE BRACED TO STRUCTURE ABOVE.
4. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
5. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM AND RELATED CONSTRUCTION.
6. AT ANY LOCATION WHERE AN INTERIOR WALL TERMINATES AT AN EXTERIOR STOREFRONT, INSTALL MULLION MATE AT INTERSECTION OF WALL AND STOREFRONT.
7. SEE LIFE SAFETY PLANS FOR REQUIRED FIRE SEPARATION WALLS.
8. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS AND PARTITION SCHEDULE.
9. SEE SHEET A-710 THROUGH A-713 FOR INTERIOR ELEVATIONS.
10. SEE SHEETS A-801 THROUGH A-804 FOR FINISH FLOORING, TRANSITIONS, PATTERNS AND WALL PROTECTION.
11. SEE SHEETS A-401 & A-402 FOR ENLARGED PLANS INDICATING ADDITIONAL DIMENSIONS AND PARTITION TYPES, ACCESORIES AND MOUNTING HEIGHTS
12. SEE STRUCTURAL DRAWINGS FOR SLAB DEPRESSIONS AND CUTOUTS.
13. WHERE STRUCTURAL STEEL MEMBERS ARE EXPOSED AND NOT CONCEALED W/OTHER CONSTRUCTION, PAINT FINISH TO MATCH STOREFRONT/ CURTAIN WALL FRAME SYSTEMS, TYP.
14. GYPSUM WALL BOARD ON EXTERIOR WALLS IS PART OF CORE & SHELL PHASE.
15. INSTALL PT WOOD BLOCKING IN WALLS AT ALL SCREEN LOCATIONS. SEE AV DRAWINGS.

PARTITION TYPE NOTES

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9. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR TYPICAL U.L. LISTED PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE PROJECT-SPECIFIC U.L. LISTED ASSEMBLIES FOR PENETRATIONS.
10. REFER TO DETAIL MECH. DWGS. FOR TYPICAL WALL FRAMING FOR FIRE DAMPERS IN RATED WALLS. COORDINATE EXACT FRAMING REQUIREMENTS WITH FIRE DAMPER MANUFACTURER. (COORDINATE ALL PARTITION CONSTRUCTION WITH MECHANICAL PRIME CONTRACTOR PRIOR TO COMMENCING PARTITION CONSTRUCTION).

CAPE FEAR FD STONEWATER

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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 00417 WILMINGTON, NORTH CAROLINA SCHOOLHOUSE

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

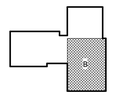
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
FLOOR PLAN- LEVEL 1- AREA B

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

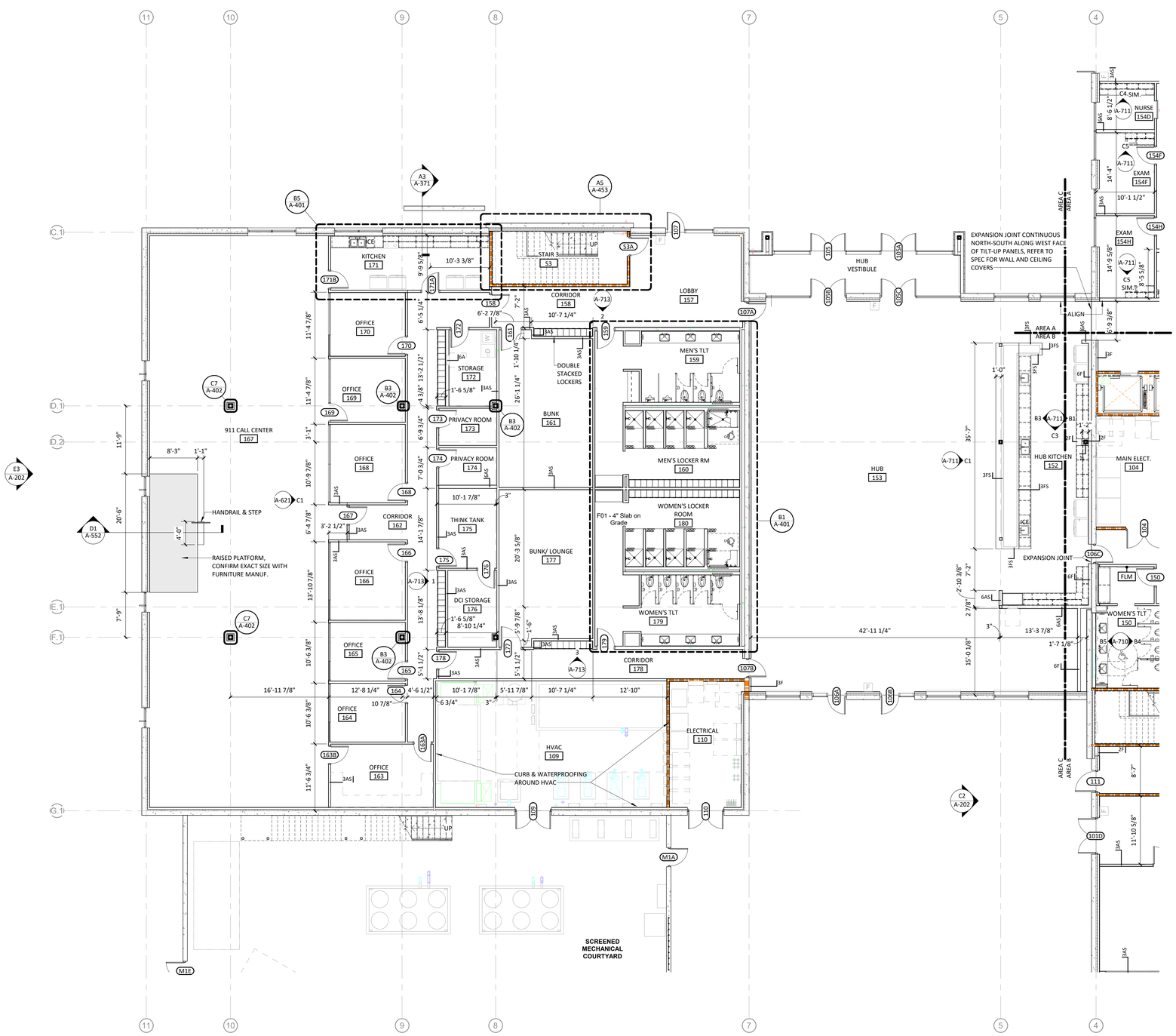
SHEET:
A-101B

GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 9:29:47 AM

A1 / A-101B	FLOOR PLAN- PARTIAL- LEVEL 1- AREA B	1/8" = 1'-0"



GENERAL SHEET NOTES

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2. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL.
3. FIRE AND SOUND RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING, DUCTWORK AND OTHER PENETRATIONS. ALL GAPS FULLY SEALED. ALL WORK IS TO BE BRACED TO STRUCTURE ABOVE.
4. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
5. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM AND RELATED CONSTRUCTION.
6. AT ANY LOCATION WHERE AN INTERIOR WALL TERMINATES AT AN EXTERIOR STOREFRONT, INSTALL MULLION MATE AT INTERSECTION OF WALL AND STOREFRONT.
7. SEE LIFE SAFETY PLANS FOR REQUIRED FIRE SEPARATION WALLS.
8. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS AND PARTITION SCHEDULE.
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12. SEE STRUCTURAL DRAWINGS FOR SLAB DEPRESSIONS AND CUTOUTS.
13. WHERE STRUCTURAL STEEL MEMBERS ARE EXPOSED AND NOT CONCEALED W/OTHER CONSTRUCTION, PAINT FINISH TO MATCH STOREFRONT/ CURTAIN WALL FRAME SYSTEMS, TYP.
14. GYPSUM WALL BOARD ON EXTERIOR WALLS IS PART OF CORE & SHELL PHASE.
15. INSTALL PT WOOD BLOCKING IN WALLS AT ALL SCREEN LOCATIONS. SEE AV DRAWINGS.

PARTITION TYPE NOTES

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4. SHOULD CONDITIONS OCCUR WHERE A WALL IS UNABLE TO GO STRAIGHT UP TO STRUCTURE DUE TO PIPING, DUCTWORK, ETC., THE PARTITION (GYPSUM BOARD AND FRAMING) MAY JOG HORIZONTALLY ABOVE THE CEILING TO AVOID THE PROBLEM. RATED WALL INTEGRITY SHALL BE MAINTAINED.
5. WHERE STUDS EXTEND TO STRUCTURE AND GYPSUM WALLBOARD AND SOUND ATTENUATION BLANKETS EXTEND JUST ABOVE THE FINISH CEILING, CAP OFF PARTITION FINISHES WITH A RUNNER CHANNEL WHEN CEILING PLENUM IS USED AS A RETURN AIR PLENUM.
6. DIMENSIONAL CONFLICTS BETWEEN PARTITION TYPES AND THE ARCHITECTURAL FLOOR PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
7. SEE LIFE SAFETY PLANS FOR THE LOCATIONS OF SMOKE BARRIERS, SMOKE PARTITIONS AND FIRE-RATED PARTITIONS.
8. REFER TO UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE VOLUMES - CURRENT EDITION FOR SPECIFIC CONSTRUCTION REQUIREMENTS OF U.L. LISTED ASSEMBLIES.
9. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR TYPICAL U.L. LISTED PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE PROJECT-SPECIFIC U.L. LISTED ASSEMBLIES FOR PENETRATIONS.
10. REFER TO DETAIL MECH. DWGS. FOR TYPICAL WALL FRAMING FOR FIRE DAMPERS IN RATED WALLS. COORDINATE EXACT FRAMING REQUIREMENTS WITH FIRE DAMPER MANUFACTURER. (COORDINATE ALL PARTITION CONSTRUCTION WITH MECHANICAL PRIME CONTRACTOR PRIOR TO COMMENCING PARTITION CONSTRUCTION).

CAPE FEAR FD STONEWATER

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LS3P ASSOCIATES LTD. NORTH CAROLINA REGISTERED CORPORATION C-0293 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

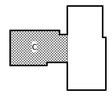
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
FLOOR PLAN- LEVEL 1- AREA C

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-101C

GMP SET

12/16/2020 9:29:58 AM

A1 / A-101C	FLOOR PLAN- PARTIAL- LEVEL 1- AREA C	1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL SHEET NOTES

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2. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL.
3. FIRE AND SOUND RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING, DUCTWORK AND OTHER PENETRATIONS. ALL WORK IS TO BE BRACED TO STRUCTURE ABOVE.
4. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
5. SEE LIFE SAFETY PLANS FOR REQUIRED FIRE SEPARATION WALLS.
6. SEE SHEET A-002 FOR CONSTRUCTION SUBSYSTEMS AND PARTITION SCHEDULE.

A1 / A-102 **OVERALL FLOOR PLAN- LEVEL 2**

3/32" = 1'-0"

TRUE NORTH / PROJECT NORTH

12/16/2020 9:30:12 AM

CAPE FEAR FD STONEWATER

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LS3P ASSOCIATES LTD. CERT NO. 00417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

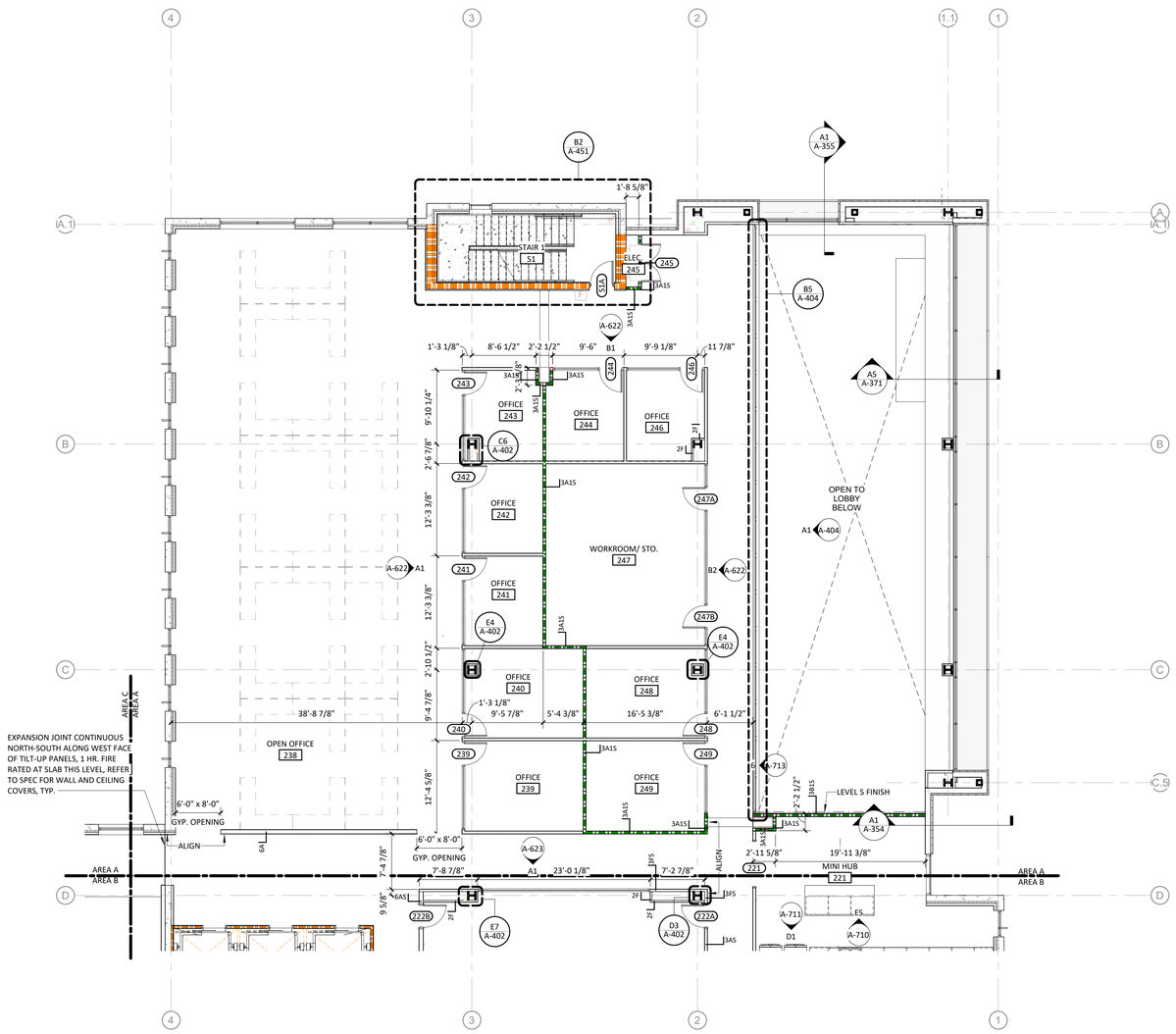
Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
FLOOR PLAN- LEVEL 2

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-102

GMP SET



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7. SEE LIFE SAFETY PLANS FOR REQUIRED FIRE SEPARATION WALLS.
8. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS AND PARTITION SCHEDULE.
9. SEE SHEET A-710 THROUGH A-713 FOR INTERIOR ELEVATIONS.
10. SEE SHEETS A-801 THROUGH A-804 FOR FINISH FLOORING, TRANSITIONS, PATTERNS AND WALL PROTECTION.
11. SEE SHEETS A-401 & A-402 FOR ENLARGED PLANS INDICATING ADDITIONAL DIMENSIONS AND PARTITION TYPES, ACCESORIES AND MOUNTING HEIGHTS
12. SEE STRUCTURAL DRAWINGS FOR SLAB DEPRESSIONS AND CUTOUTS.
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 00417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

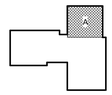
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
FLOOR PLAN- LEVEL 2- AREA A

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-102A

GMP SET

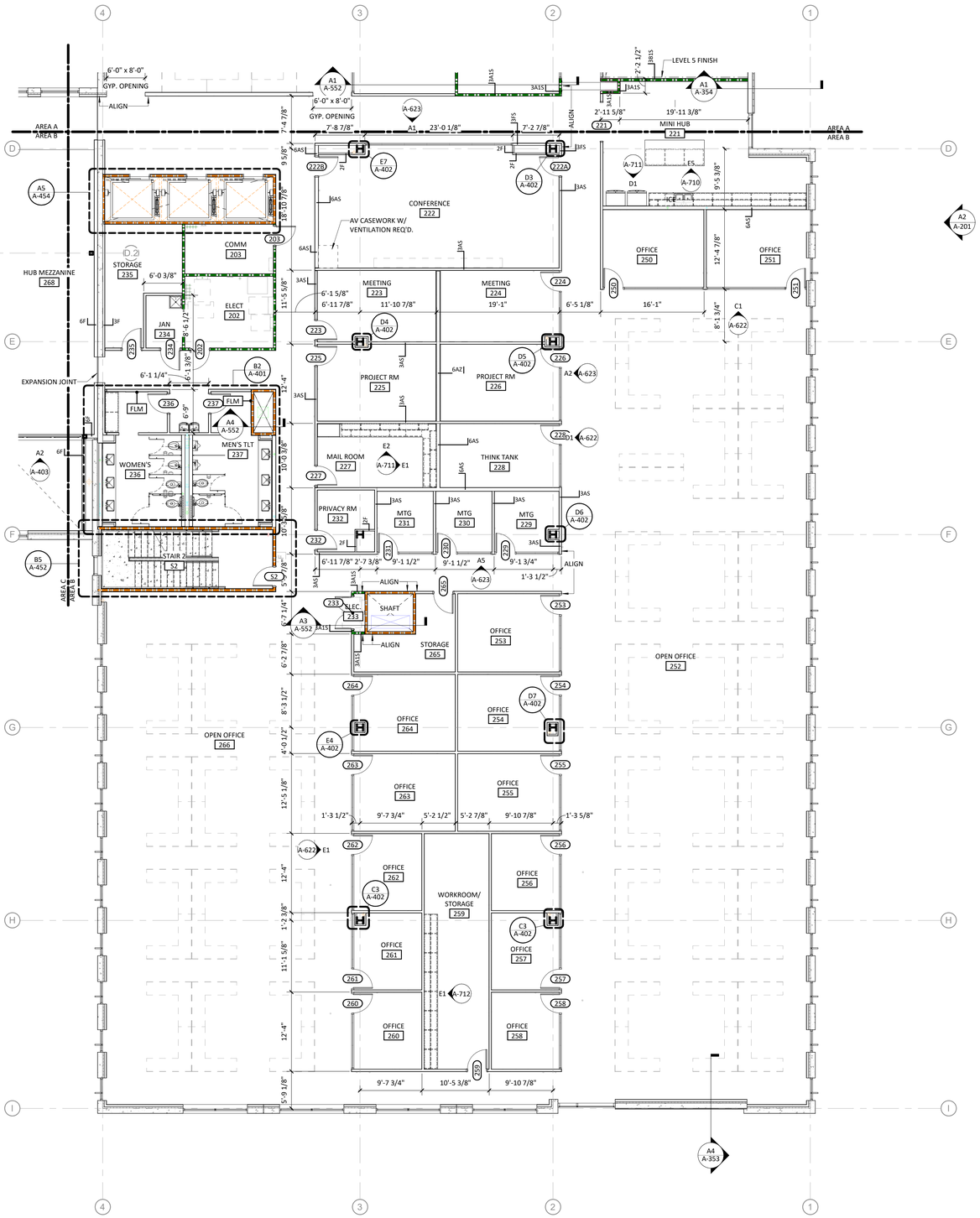
A1
A-102A

FLOOR PLAN- PARTIAL- LEVEL 2 - AREA A

1/8" = 1'-0"

12/16/2020 9:30:18 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE STATED DRAWING SCALE



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WWW.LS3P.COM

LS3P ASSOCIATES LTD. CERT NO. 00417

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

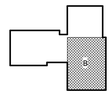
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
FLOOR PLAN- LEVEL 2- AREA B

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-102B

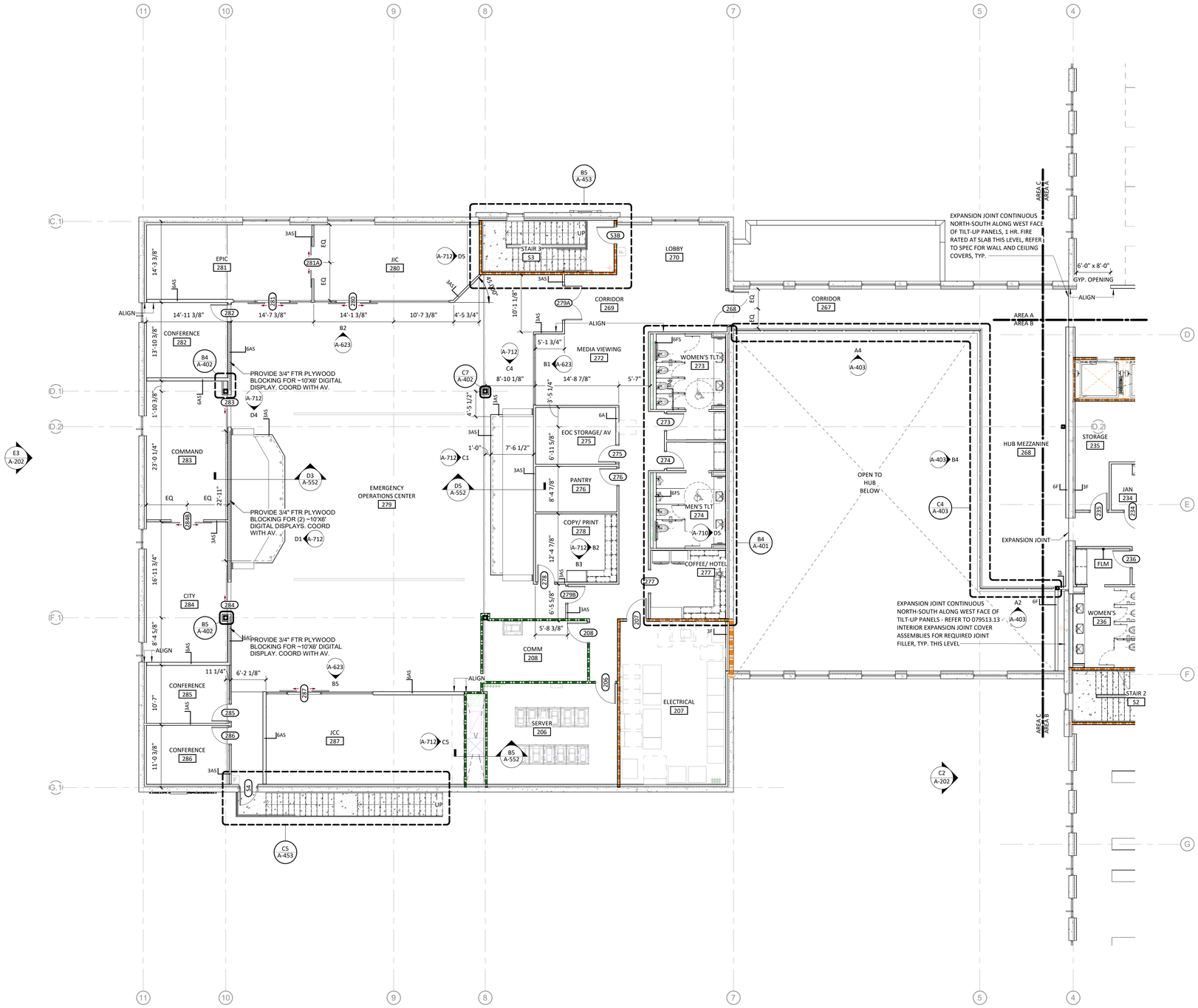
GMP SET

A1 / A-102B | **FLOOR PLAN- PARTIAL- LEVEL 2 - AREA B** | 1/8" = 1'-0"

12/16/2020 9:30:25 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 00417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

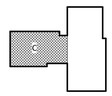
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-1908110

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
FLOOR PLAN- LEVEL 2- AREA C

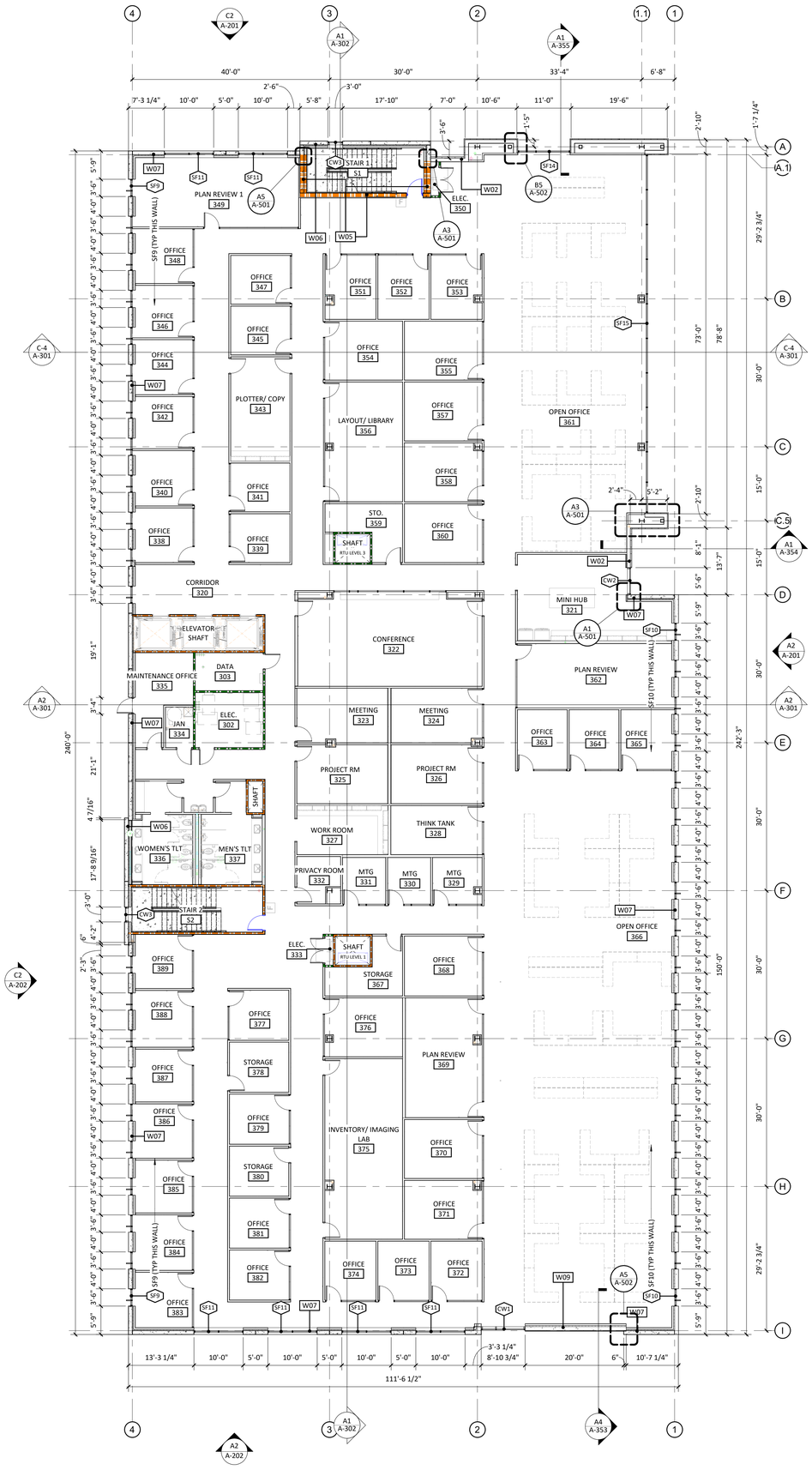
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-102C

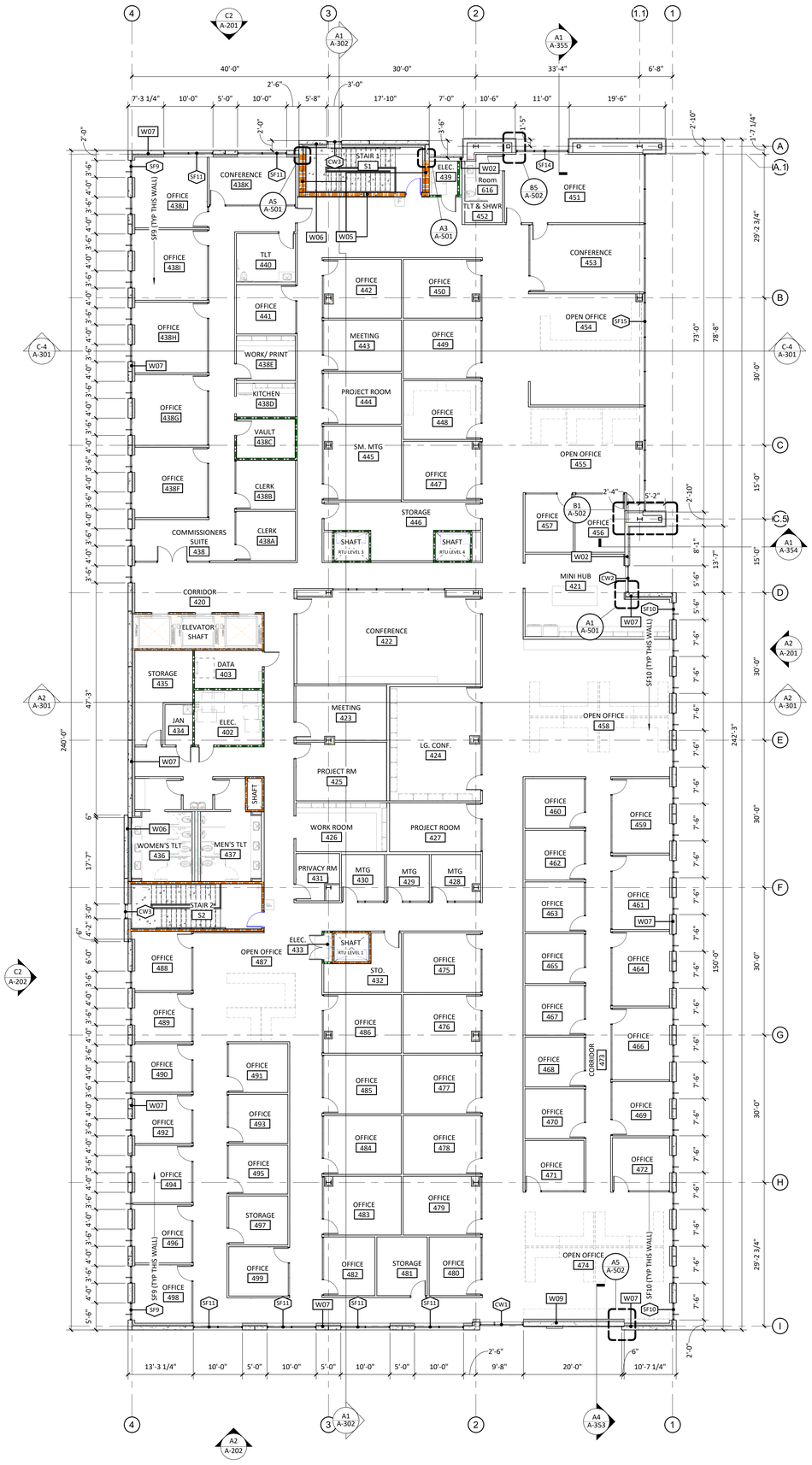
GMP SET

12/16/2020 9:30:34 AM

A1 / A-102C	FLOOR PLAN- PARTIAL- LEVEL 2 - AREA C	1/8" = 1'-0"



A1 / A-103	OVERALL FLOOR PLAN- LEVEL 3	3/32" = 1'-0"



A4 / A-103	OVERALL FLOOR PLAN- LEVEL 4	3/32" = 1'-0"

1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 9:30:56 AM

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 00417 SOUTH CAROLINA WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

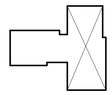
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

KEY PLAN:

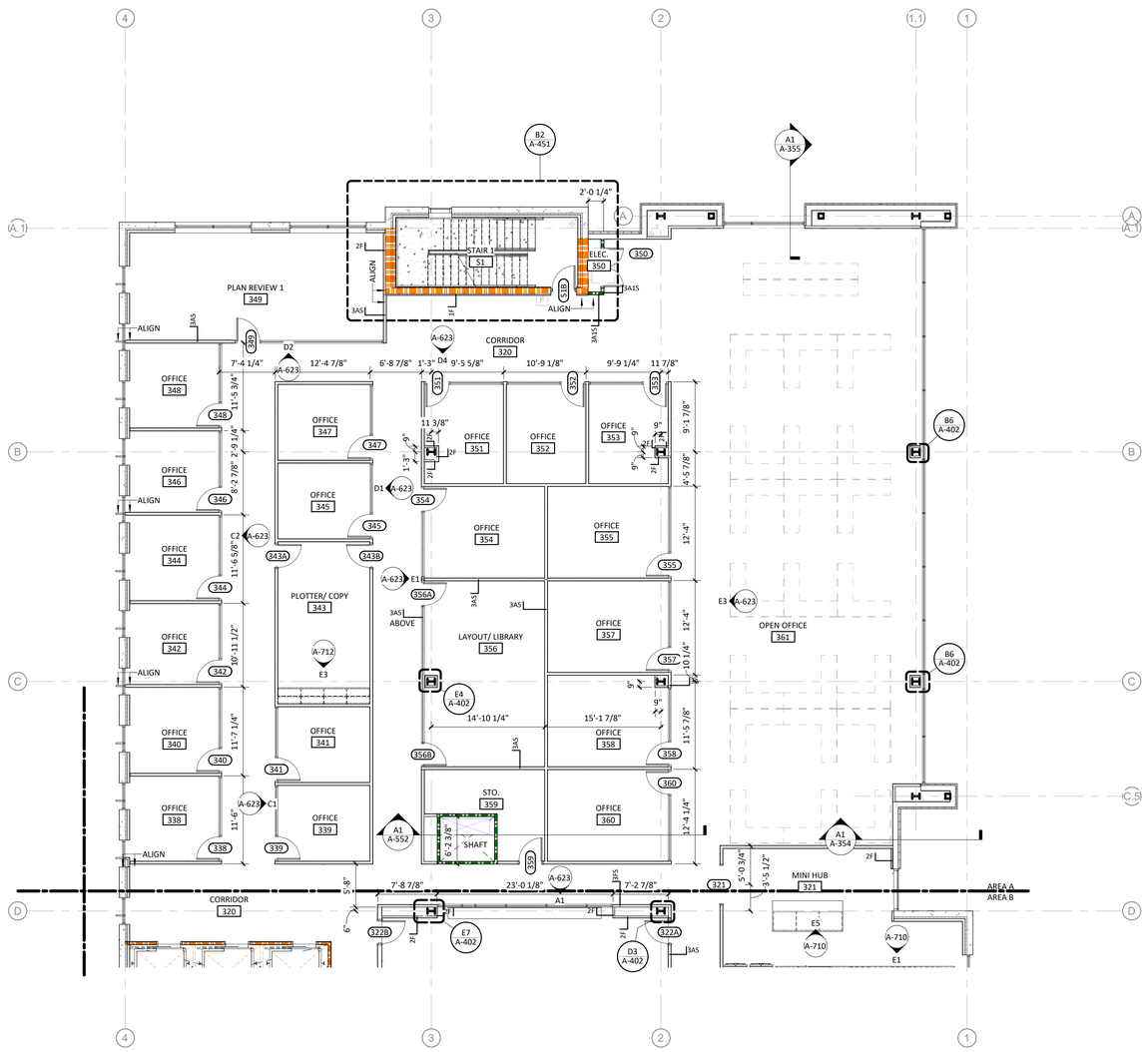


SHEET NAME:
FLOOR PLAN- LEVEL 3 & 4

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-103

GMP SET



GENERAL SHEET NOTES

1. DIMENSIONS TO FACE OF PARTITIONS ARE TO FACE OF STUD. FINISHES DEPICTED IN FINISH PLANS AND ELEVATIONS ARE NOT SHOWN ON PARTIAL FLOOR PLANS. REFER TO ENLARGED PLANS, ELEVATIONS, AND DETAILS.
2. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL.
3. FIRE AND SOUND RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING, DUCTWORK AND OTHER PENETRATIONS. ALL GAPS FULLY SEALED. ALL WORK IS TO BE BRACED TO STRUCTURE ABOVE.
4. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS.
5. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM AND RELATED CONSTRUCTION.
6. AT ANY LOCATION WHERE AN INTERIOR WALL TERMINATES AT AN EXTERIOR STOREFRONT, INSTALL MULLION MATE AT INTERSECTION OF WALL AND STOREFRONT.
7. SEE LIFE SAFETY PLANS FOR REQUIRED FIRE SEPARATION WALLS.
8. SEE SHEET A-001 FOR CONSTRUCTION SUBSYSTEMS AND PARTITION SCHEDULE.
9. SEE SHEET A-710 THROUGH A-713 FOR INTERIOR ELEVATIONS.
10. SEE SHEETS A-801 THROUGH A-804 FOR FINISH FLOORING, TRANSITIONS, PATTERNS AND WALL PROTECTION.
11. SEE SHEETS A-401 & A-402 FOR ENLARGED PLANS INDICATING ADDITIONAL DIMENSIONS AND PARTITION TYPES, ACCESORIES AND MOUNTING HEIGHTS
12. SEE STRUCTURAL DRAWINGS FOR SLAB DEPRESSIONS AND CUTOUTS.
13. WHERE STRUCTURAL STEEL MEMBERS ARE EXPOSED AND NOT CONCEALED W/OTHER CONSTRUCTION, PAINT FINISH TO MATCH STOREFRONT/ CURTAIN WALL FRAME SYSTEMS, TYP.
14. GYPSUM WALL BOARD ON EXTERIOR WALLS IS PART OF CORE & SHELL PHASE.
15. INSTALL PT WOOD BLOCKING IN WALLS AT ALL SCREEN LOCATIONS. SEE AV DRAWINGS.

PARTITION TYPE NOTES

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4. SHOULD CONDITIONS OCCUR WHERE A WALL IS UNABLE TO GO STRAIGHT UP TO STRUCTURE DUE TO PIPING, DUCTWORK, ETC., THE PARTITION (GYPSUM BOARD AND FRAMING) MAY JOG HORIZONTALLY ABOVE THE CEILING TO AVOID THE PROBLEM. RATED WALL INTEGRITY SHALL BE MAINTAINED.
5. WHERE STUDS EXTEND TO STRUCTURE AND GYPSUM WALLBOARD AND SOUND ATTENUATION BLANKETS EXTEND JUST ABOVE THE FINISH CEILING, CAP OFF PARTITION FINISHES WITH A RUNNER CHANNEL WHEN CEILING PLENUM IS USED AS A RETURN AIR PLENUM.
6. DIMENSIONAL CONFLICTS BETWEEN PARTITION TYPES AND THE ARCHITECTURAL FLOOR PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
7. SEE LIFE SAFETY PLANS FOR THE LOCATIONS OF SMOKE BARRIERS, SMOKE PARTITIONS AND FIRE-RATED PARTITIONS.
8. REFER TO UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE VOLUMES - CURRENT EDITION FOR SPECIFIC CONSTRUCTION REQUIREMENTS OF U.L. LISTED ASSEMBLIES.
9. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR TYPICAL U.L. LISTED PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE PROJECT-SPECIFIC U.L. LISTED ASSEMBLIES FOR PENETRATIONS.
10. REFER TO DETAIL MECH. DWGS. FOR TYPICAL WALL FRAMING FOR FIRE DAMPERS IN RATED WALLS. COORDINATE EXACT FRAMING REQUIREMENTS WITH FIRE DAMPER MANUFACTURER. (COORDINATE ALL PARTITION CONSTRUCTION WITH MECHANICAL PRIME CONTRACTOR PRIOR TO COMMENCING PARTITION CONSTRUCTION).

CAPE FEAR FD STONEWATER

LS3P

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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 00417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

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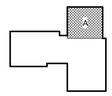

SHEET NAME:
FLOOR PLAN- LEVEL 3- AREA A

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-103A

GMP SET

A1 / A-103A	FLOOR PLAN- PARTIAL- LEVEL 3 - AREA A	1/8" = 1'-0"

12/16/2020 9:31:04 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



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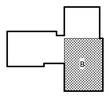

SHEET NAME:
FLOOR PLAN- LEVEL 3- AREA B

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-103B

GMP SET

A1 / A-103B | FLOOR PLAN- PARTIAL- LEVEL 3 - AREA B | 1/8" = 1'-0"

12/16/2020 9:31:12 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

E

D

C

B

A

12/16/2020 9:31:13 AM

1 2 3 4 5 6

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LS3P PROJECT: 7702-190810

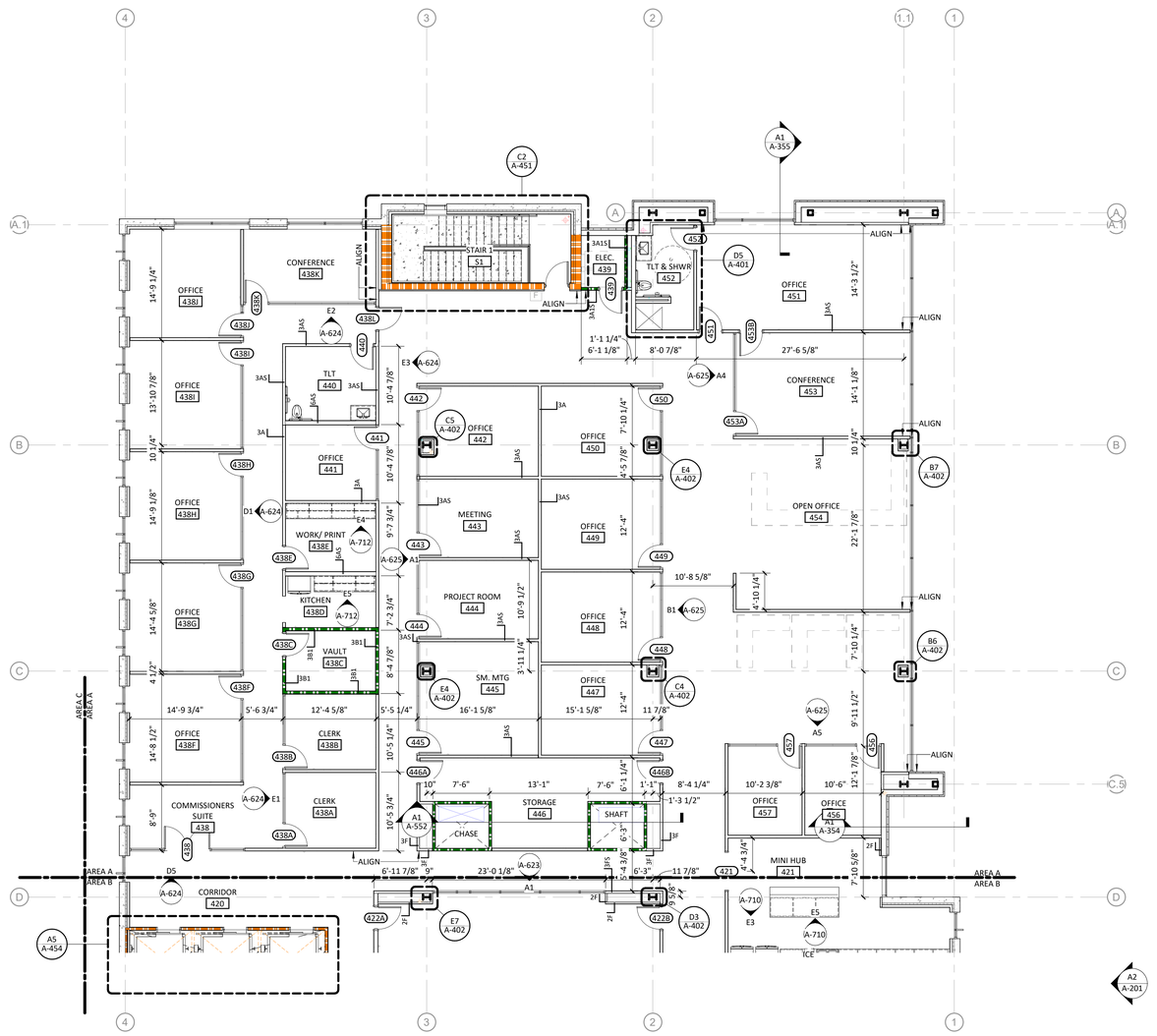
Δ	DATE	DESCRIPTION

SHEET NAME:
FLOOR PLAN- LEVEL 4

ORIG SUBMISSION: 2020.04.14
CURRENT:

SHEET:
A-104

GMP SET



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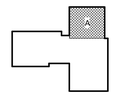

SHEET NAME:
FLOOR PLAN- LEVEL 4- AREA A

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-104A

GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 9:31:19 AM

A1 / A-104A	FLOOR PLAN- PARTIAL- LEVEL 4 - AREA A	1/8" = 1'-0"

1 2 3 4 5 6

A B C D E



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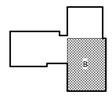

SHEET NAME:
FLOOR PLAN- LEVEL 4- AREA B

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-104B

GMP SET

A1
A-104B

FLOOR PLAN- PARTIAL- LEVEL 4 - AREA B

1/8" = 1'-0"

12/16/2020 9:31:29 AM

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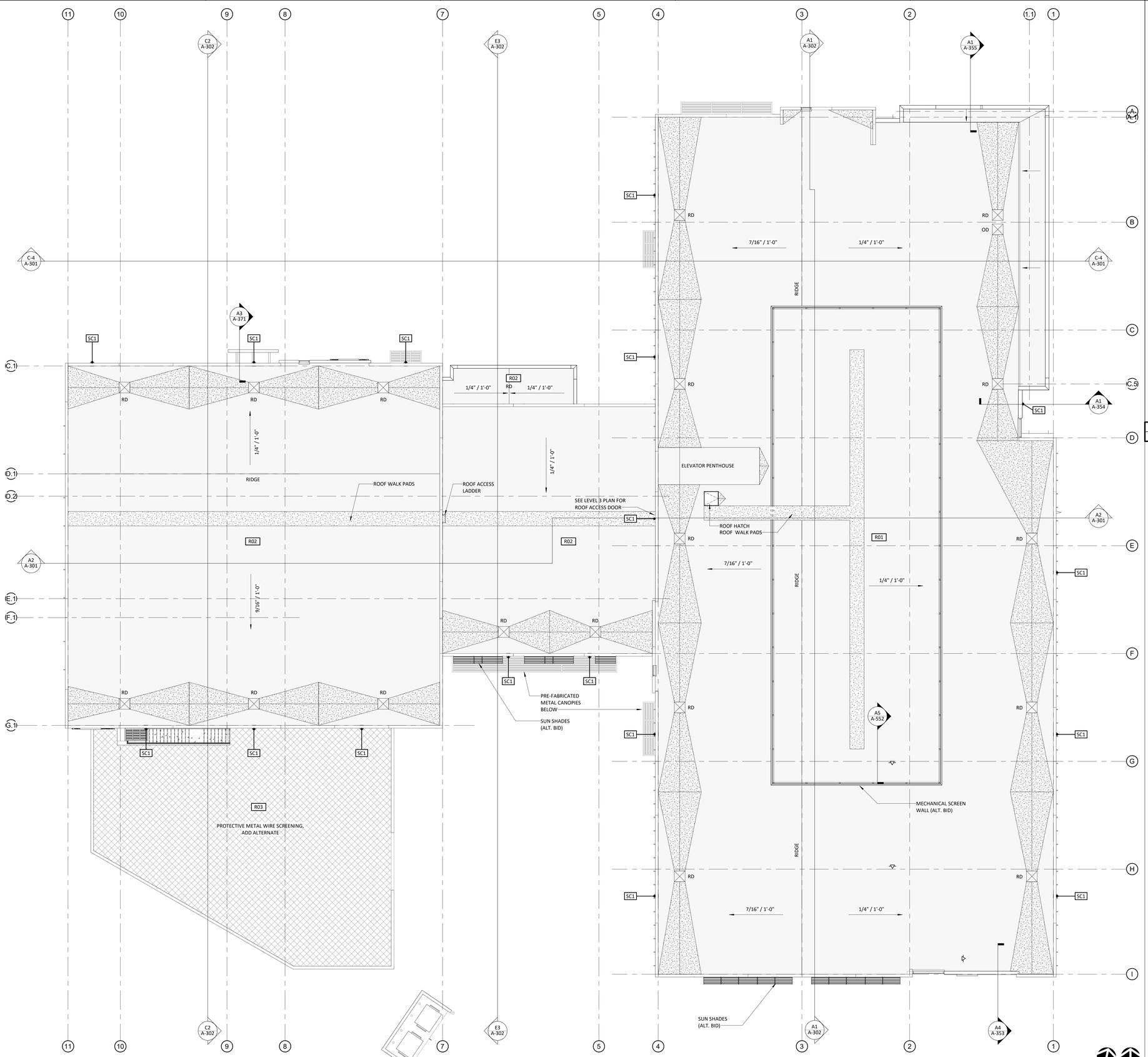

A1 A-105	OVERALL ROOF PLAN- OVERALL 1	3/32" = 1'-0"

LEGEND - ROOF PLANS

BUILDING ELEVATIONS
DETAIL NUMBER
SHEET NUMBER

BUILDING SECTIONS
DETAIL NUMBER
SHEET NUMBER

WALL/ROOFING SECTION OR SECTION DETAIL
DETAIL NUMBER
SHEET NUMBER

PLAN CALLOUTS
DETAIL NUMBER
SHEET NUMBER

MATCHLINE
REFER TO DRAWING REFERENCED, FOR ITEMS ON REFERENCE SIDE OF MATCHLINE
SHEET NUMBER

BUILDING ELEMENTS
EXISTING PARTITION TO REMAIN
TEMPORARY PARTITION
PARTITION
MARKER (LEADER)
ELEVATION AT MARKER
MINIMUM REQUIRED SLOPE- THIS RIDGE OR VALLEY (PARALLEL TO ARROW HEAD)
MINIMUM REQUIRED SLOPE (PLANE OF ROOF ENCLOSING TAIL OF ARROW)
TAPERED INSULATION (CRICKET) UNDERNEATH ROOFING SYSTEM (HATCHED AREA)
ROOF WALK MATS/PADS
ROOF DRAIN (REFER TO PLUMBING DRAWINGS)
OVERFLOW DRAIN (REFER TO PLUMBING DRAWINGS)
SCUPPER AND DOWNSPOUT
SCUPPER

GENERAL NOTES - ROOF PLANS

1. ITEMS FROM MECHANICAL, PLUMBING, AND ELECTRICAL SCOPES MAY BE SHOWN FOR REFERENCE AND COORDINATION ONLY. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PIPING, CURBS, VENTS, DUCTS, FANS, AND OTHER ITEMS ON THE ROOF SURFACE
2. ALL ROOF FLASHING TO BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS

1 A-105	LEGEND - ROOF PLANS	NTS

CAPE FEAR FD STONEWATER

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WILMINGTON, NORTH CAROLINA 28401
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WWW.LS3P.COM

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

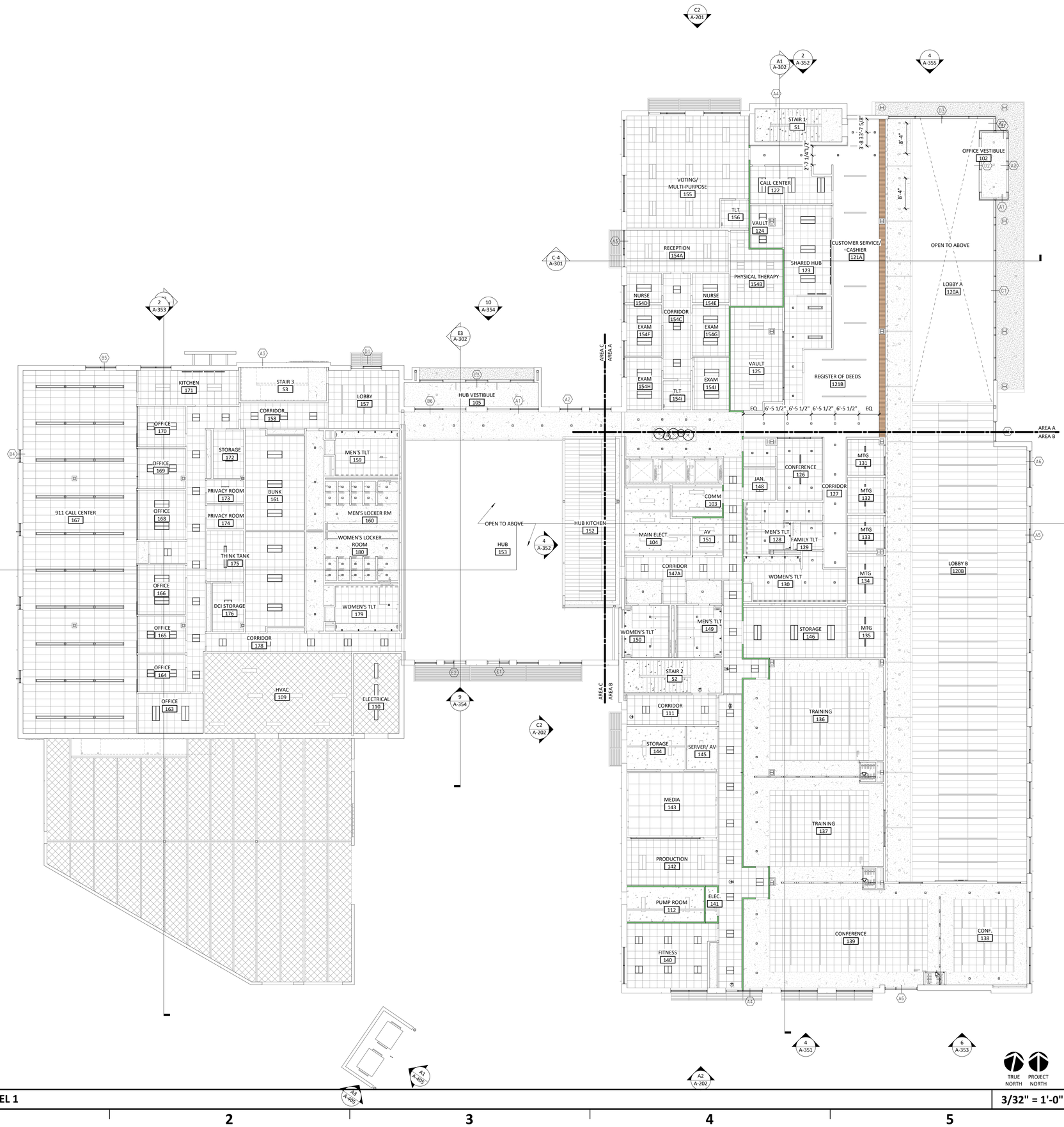
SHEET NAME:
ROOF PLAN- OVERALL

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-105

GMP SET

12/16/2020 9:31:42 AM



RCP SHEET NOTES

1. SEE SHEET A001 FOR PARITION TYPES AND TERMINATION ABOVE CEILING
2. SEE FINISH SCHEDULE FOR CEILING TYPES & MATERIALS IN EACH ROOM / AREA.
3. DIMENSIONS ARE TO FACE OF STUD, TYPICAL.
4. ALL CEILINGS TO BE 8'-6" AFF, U.N.O.. CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. REFER TO INTERIOR ELEVATIONS FOR THE HEIGHTS OF SOFFITS ABOVE CASEWORK.
5. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
6. SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
7. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
8. SEE MECHANICAL FLOOR PLANS FOR EXTENT OF EXPOSED DUCTWORK IN EXPOSED STRUCTURE AREAS WITHOUT CEILINGS.
9. EXTEND PERIMETER WALLS AND FINISH TO STRUCTURE ABOVE AT EXPOSED STRUCTURE AREAS. PAINT ALL EXPOSED DUCTWORK, PIPING, HANGERS, ETC...
10. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
11. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS SMOKE DETECTORS, SPEAKERS, GENERAL ALARM SPEAKERS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN MULTIPLE ITEM CENTER OR EDGES.
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15. LIGHTS LOCATED IN STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
16. LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.
17. SPRINKLER HEADS, OTHER THAN CONCEALED, SHALL BE SEMI RECESSED (CENTER IN CEILING TILE).
18. ALL QWB CEILINGS TO RECEIVE CONCEALED SPRINKLER HEADS.
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- ACT-5 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- 3'-0"X3'-0" PIPE GRID SYSTEM STRUCTURE ABOVE EXPOSED & PNT BLACK
- WPP-1 WOOD SOFFIT
- GYPSUM BOARD
- EXPOSED STRUCTURE - NO CEILING
- EXPOSED STRUCTURE - DRYFALL PAINTED ABOVE
- 2 X 2 LED RECESSED TROFFER
- 2 X 4 LED RECESSED TROFFER
- 4" SQUARE RECESSED LED LIGHTS
- RECESSED LED STRIP LIGHT, LENGTH VARIES
- DECORATIVE PENDANT
- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
- 1'x4' LED SUSPENDED LINEAR UTILITY FIXTURE
- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER; TBD
- WAC LIGHTING WALL SCONCE; EXACT FIXTURE TBD
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

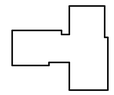
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 1

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-121

GMP SET

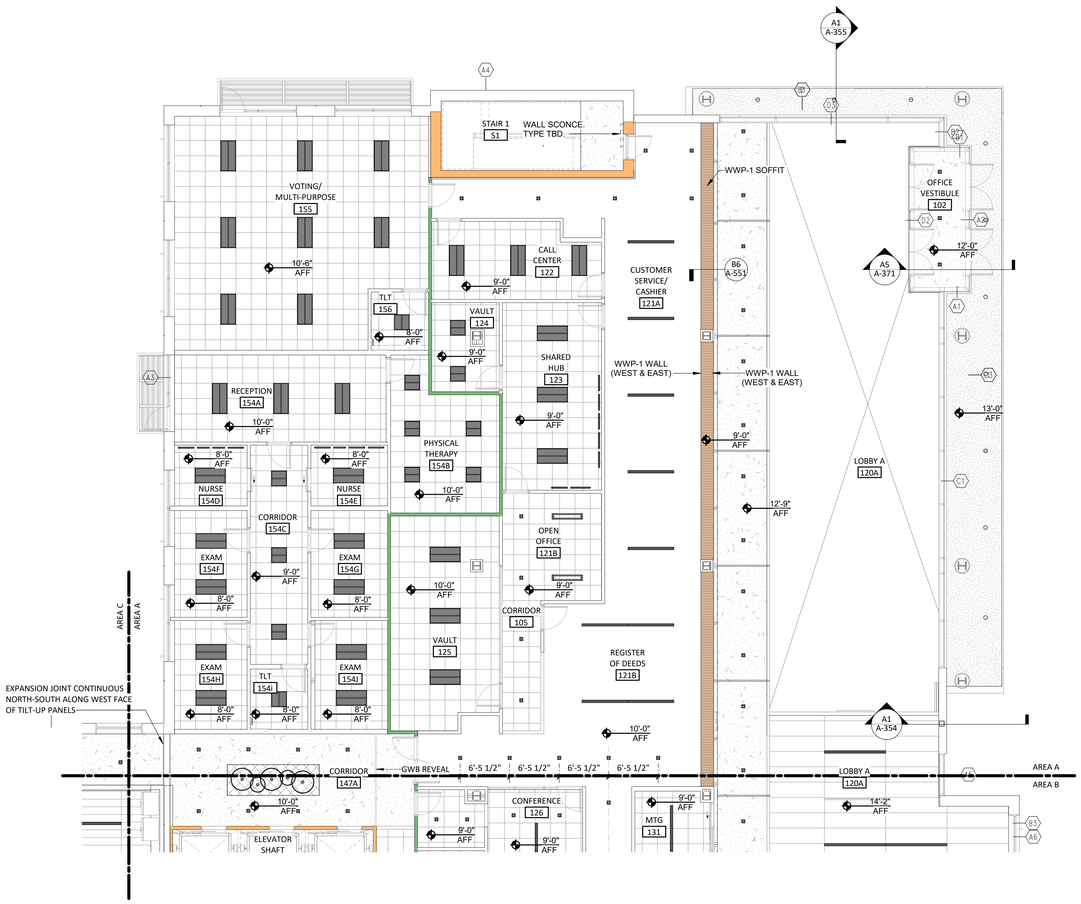
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

12/16/2020 9:31:56 AM

A1 / A-121	OVERALL RCP-LEVEL 1	3/32" = 1'-0"	RCP LEGEND	1/8" = 1'-0"

1 2 3 4 5 6

A B C D E



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- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
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- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER; TBD
- WAC LIGHTING WALL SCONCE; EXACT FIXTURE TBD
- RETURN AIR DIFFUSER
- EXHAUST FAN
- SUPPLY AIR DIFFUSER
- LINEAR AIR DIFFUSER
- 555'-5 5/5" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

TRUE NORTH
PROJECT NORTH

A1 / A-121A	RCP- PARTIAL- LEVEL 1 - AREA A	1/8" = 1'-0"	RCP LEGEND	1/8" = 1'-0"

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

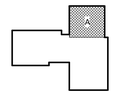
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 1 AREA A

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-121A

GMP SET

12/16/2020 9:32:03 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



RCP SHEET NOTES

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TRUE NORTH / PROJECT NORTH

CAPE FEAR FD STONEWATER

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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 00417 WILMINGTON, NORTH CAROLINA SCHOOLHOUSE

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
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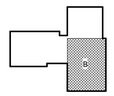
KEY PLAN:



SHEET NAME: REFLECTED CEILING PLAN- LEVEL 1 AREA B

ORIG SUBMISSION: - -
CURRENT: 2020.12.16 GMP SET

SHEET: A-121B

GMP SET

A1 / A-121B — RCP- PARTIAL- LEVEL 1 - AREA B — 1/8" = 1'-0"

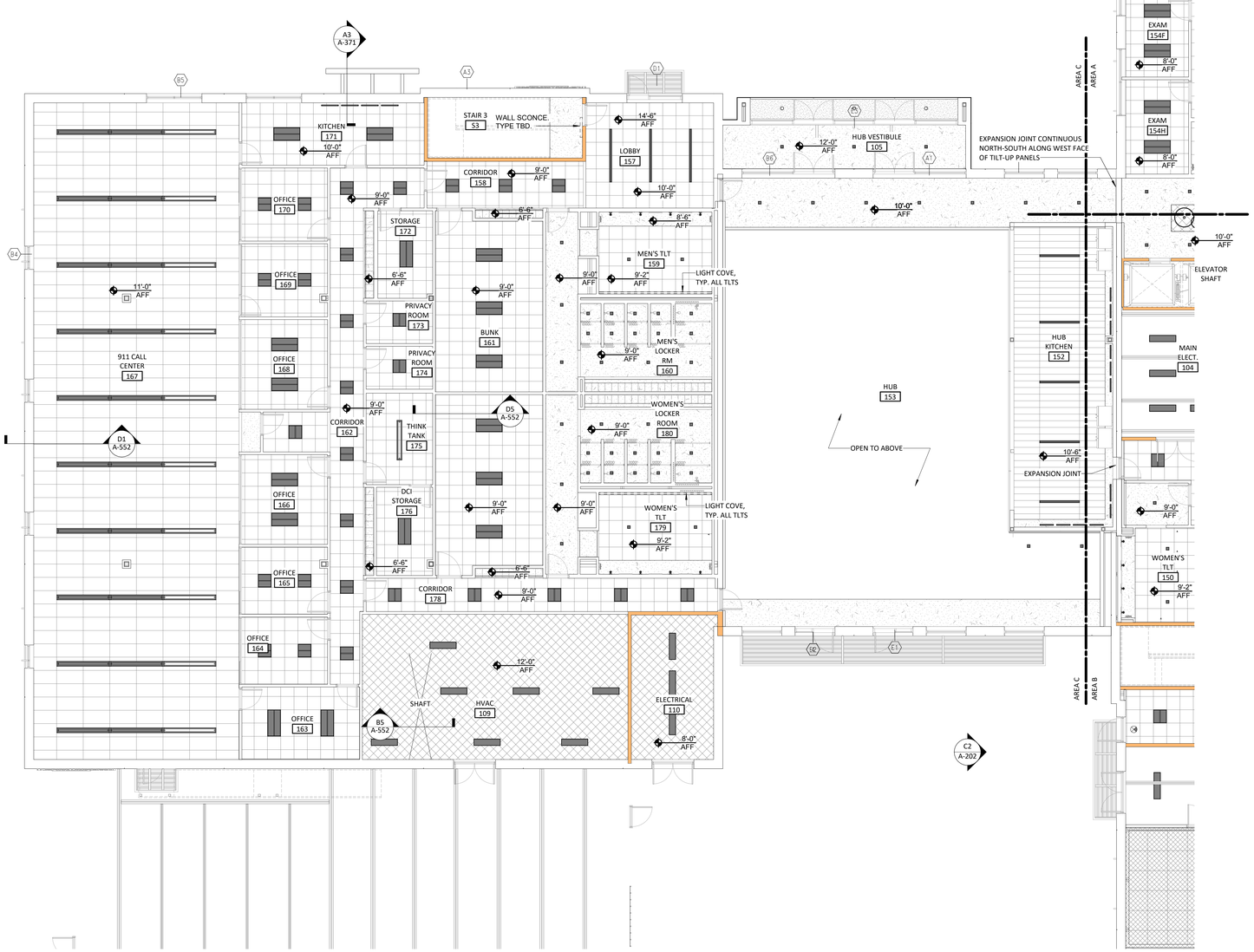
RCP LEGEND — 1/8" = 1'-0"

12/16/2020 9:32:12 AM

1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



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14. ALL SINGLE LIGHT FIXTURES SHALL BE CENTERED IN THE CEILING WITHIN WHICH THEY OCCUR.
15. LIGHTS LOCATED IN STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
16. LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.
17. SPRINKLER HEADS, OTHER THAN CONCEALED, SHALL BE SEMI RECESSED (CENTER IN CEILING TILE).
18. ALL GWB CEILINGS TO RECEIVE CONCEALED SPRINKLER HEADS.
19. WHERE ACT CEILINGS OVERLAP, LOWER CEILING SHALL OVERLAP BY ATLEAST 8 INCHES. LOWER ACT CEILING TO RECEIVE 6" KNIFE EDGE AROUND THE PERIMETER U.N.O.
20. SOUND ATTENUATE BATT ABOVE CEILING IN ALL OFFICES, CONFERENCE ROOMS, TRAINING ROOMS & EOC; ENTIRE CEILING.

LEGEND- REFLECTED CEILING PLAN

- ACT-1 24"x24" LAY-IN ACOUSTIC CEILING TILE
- ACT-2 24"x48" LAY-IN ACOUSTIC CEILING TILE
- ACT-3 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-4 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-5 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- 3'-0"X3'-0" PIPE GRID SYSTEM STRUCTURE ABOVE EXPOSED & PNT BLACK
- WPP-1 WOOD SOFFIT
- GYPSUM BOARD
- EXPOSED STRUCTURE - NO CEILING
- EXPOSED STRUCTURE - DRYFALL PAINTED ABOVE
- 2 X 2 LED RECESSED TROFFER
- 2 X 4 LED RECESSED TROFFER
- 4" SQUARE RECESSED LED LIGHTS
- RECESSED LED STRIP LIGHT, LENGTH VARIES
- DECORATIVE PENDANT
- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
- 1'x4' LED SUSPENDED LINEAR UTILITY FIXTURE
- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER; TBD
- WAC LIGHTING WALL SCONCE; EXACT FIXTURE TBD
- RETURN AIR DIFFUSER
- EXHAUST FAN
- SUPPLY AIR DIFFUSER
- LINEAR AIR DIFFUSER
- 555'-5 5/5" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

TRUE NORTH / PROJECT NORTH

A1 / A-121C	RCP- PARTIAL- LEVEL 1 - AREA C	1/8" = 1'-0"
	RCP LEGEND	1/8" = 1'-0"

12/16/2020 9:32:23 AM

1 2 3 4 5 6

A B C D E

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT. NO. 00417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

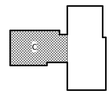
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



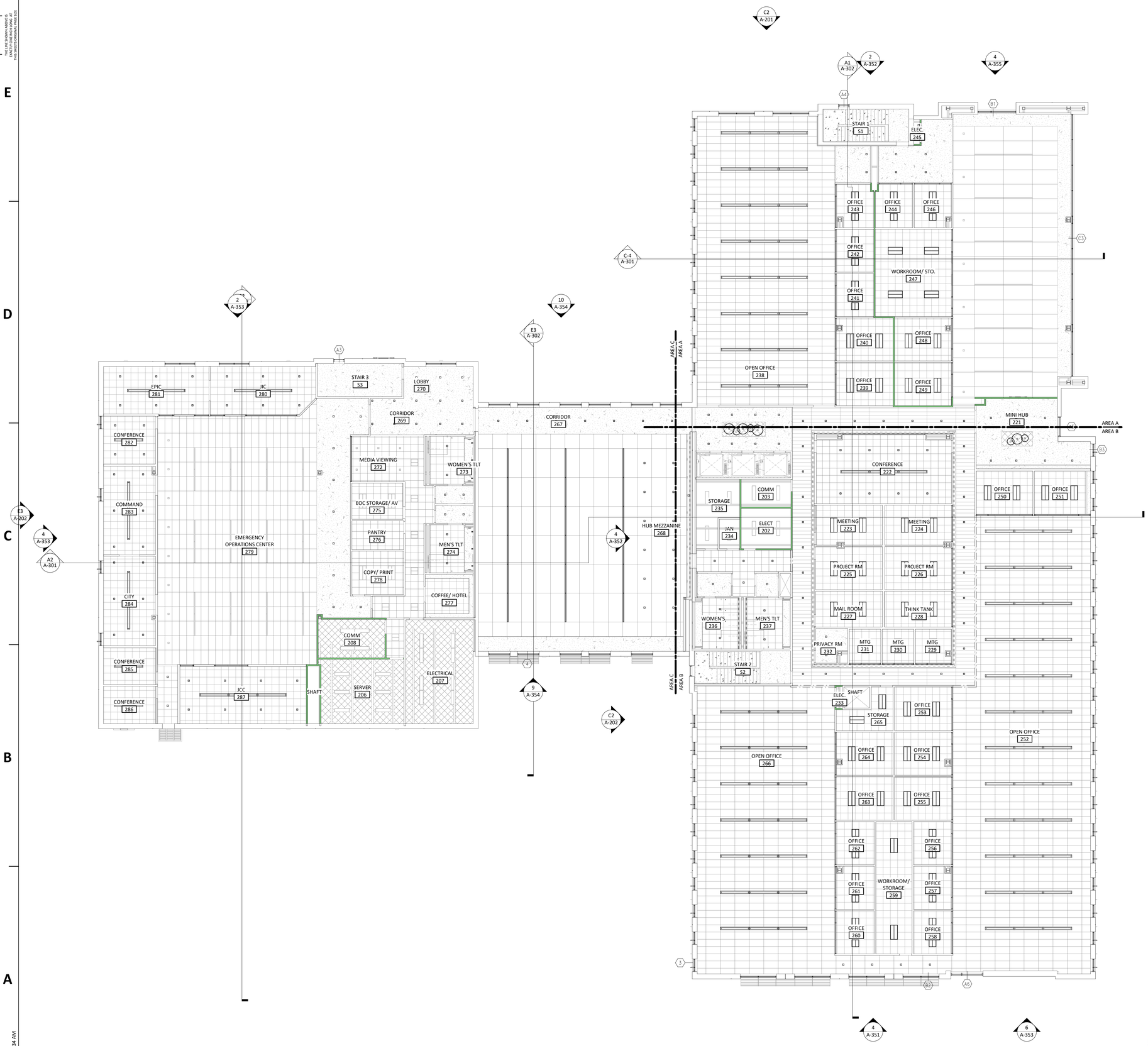
SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 1 AREA C

ORIG SUBMISSION: - -
CURRENT: 2020.12.16 GMP SET

SHEET:
A-121C

GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



RCP SHEET NOTES

1. SEE SHEET A001 FOR PARITION TYPES AND TERMINATION ABOVE CEILING
2. SEE FINISH SCHEDULE FOR CEILING TYPES & MATERIALS IN EACH ROOM / AREA.
3. DIMENSIONS ARE TO FACE OF STUD, TYPICAL.
4. ALL CEILINGS TO BE 8'-6" AFF, U.N.O.. CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. REFER TO INTERIOR ELEVATIONS FOR THE HEIGHTS OF SOFFITS ABOVE CASEWORK.
5. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
6. SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
7. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
8. SEE MECHANICAL FLOOR PLANS FOR EXTENT OF EXPOSED DUCTWORK IN EXPOSED STRUCTURE AREAS WITHOUT CEILINGS.
9. EXTEND PERIMETER WALLS AND FINISH TO STRUCTURE ABOVE AT EXPOSED STRUCTURE AREAS. PAINT ALL EXPOSED DUCTWORK, PIPING, HANGERS, ETC...
10. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
11. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS SMOKE DETECTORS, SPEAKERS, GENERAL ALARM SPEAKERS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN MULTIPLE ITEM CENTER OR EDGES.
12. LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
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- ACT-2 24"x48" LAY-IN ACOUSTIC CEILING TILE
- ACT-3 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-4 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
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- GYPSUM BOARD
- EXPOSED STRUCTURE - NO CEILING
- EXPOSED STRUCTURE - DRYFALL PAINTED ABOVE
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- RECESSED LED STRIP LIGHT, LENGTH VARIES
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- 1'x4' LED SUSPENDED LINEAR UTILITY FIXTURE
- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER; TBD
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- LIGHT COVE

TRUE NORTH / PROJECT NORTH

CAPE FEAR FD STONEWATER

LS3P

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WILMINGTON, NORTH CAROLINA 28401
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 00417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 2

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-122

GMP SET

12/16/2020 9:32:34 AM

A1 / A-122 OVERALL RCP-LEVEL 2 — 3/32" = 1'-0" — RCP LEGEND — 1/8" = 1'-0"

1 2 3 4 5 6



RCP SHEET NOTES

1. SEE SHEET A001 FOR PARITION TYPES AND TERMINATION ABOVE CEILING
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- RECESSED LED STRIP LIGHT, LENGTH VARIES
- DECORATIVE PENDANT
- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
- 1'x4' LED SUSPENDED LINEAR UTILITY FIXTURE
- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER, TBD
- WAC LIGHTING WALL SCONCE; EXACT FIXTURE TBD
- RETURN AIR DIFFUSER
- EXHAUST FAN
- SUPPLY AIR DIFFUSER
- LINEAR AIR DIFFUSER
- 9'-0" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

TRUE NORTH / PROJECT NORTH

A1 / A-122A	RCP- PARTIAL- LEVEL 2 - AREA A	1/8" = 1'-0"

RCP LEGEND	1/8" = 1'-0"

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 50417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
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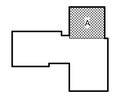
KEY PLAN:



SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 2 AREA A

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-122A

GMP SET

12/16/2020 9:32:40 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



RCP SHEET NOTES

1. SEE SHEET A001 FOR PARITION TYPES AND TERMINATION ABOVE CEILING
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- 555'-5 5/5" AFF — HEIGHT ABOVE FINISHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

TRUE NORTH | PROJECT NORTH

A1 / A-122B	RCP- PARTIAL- LEVEL 2 - AREA B	1/8" = 1'-0"	RCP LEGEND	1/8" = 1'-0"

CAPE FEAR FD STONEWATER

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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B	2020.10.16	TI- DESIGN DEVELOPMENT
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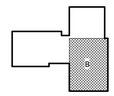
KEY PLAN:



SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 2 AREA B

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-122B

GMP SET

12/16/2020 9:32:48 AM

1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



RCP SHEET NOTES

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7. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
8. SEE MECHANICAL FLOOR PLANS FOR EXTENT OF EXPOSED DUCTWORK IN EXPOSED STRUCTURE AREAS WITHOUT CEILINGS.
9. EXTEND PERIMETER WALLS AND FINISH TO STRUCTURE ABOVE AT EXPOSED STRUCTURE AREAS. PAINT ALL EXPOSED DUCTWORK, PIPING, HANGERS, ETC...
10. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
11. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS SMOKE DETECTORS, SPEAKERS, GENERAL ALARM SPEAKERS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN MULTIPLE ITEM CENTER OR EDGES.
12. LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
13. INSTALL ACCESS PANELS IN GYPSUM BOARD CEILINGS AT DUCT DAMPER CONTROLS, DUCT MOUNTED SMOKE DETECTORS, MANUAL DUCT CONTROLS, ETC.
14. ALL SINGLE LIGHT FIXTURES SHALL BE CENTERED IN THE CEILING WITHIN WHICH THEY OCCUR.
15. LIGHTS LOCATED IN STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
16. LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.
17. SPRINKLER HEADS, OTHER THAN CONCEALED, SHALL BE SEMI RECESSED (CENTER IN CEILING TILE).
18. ALL QWB CEILINGS TO RECEIVE CONCEALED SPRINKLER HEADS.
19. WHERE ACT CEILINGS OVERLAP, LOWER CEILING SHALL OVERLAP BY ATLEAST 8 INCHES. LOWER ACT CEILING TO RECEIVE 6" KNIFE EDGE AROUND THE PERIMETER U.N.O.
20. SOUND ATTENUATE BATT ABOVE CEILING IN ALL OFFICES, CONFERENCE ROOMS, TRAINING ROOMS & EOC; ENTIRE CEILING.

LEGEND- REFLECTED CEILING PLAN

- ACT-1 24"x24" LAY-IN ACOUSTIC CEILING TILE
- ACT-2 24"x48" LAY-IN ACOUSTIC CEILING TILE
- ACT-3 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-4 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-5 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- 3'-0"X3'-0" PIPE GRID SYSTEM STRUCTURE ABOVE EXPOSED & PNT BLACK
- WPP-1 WOOD SOFFIT
- GYPSUM BOARD
- EXPOSED STRUCTURE - NO CEILING
- EXPOSED STRUCTURE - DRYFALL PAINTED ABOVE
- 2 X 2 LED RECESSED TROFFER
- 2 X 4 LED RECESSED TROFFER
- 4" SQUARE RECESSED LED LIGHTS
- RECESSED LED STRIP LIGHT, LENGTH VARIES
- DECORATIVE PENDANT
- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
- 1'x4' LED SUSPENDED LINEAR UTILITY FIXTURE
- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER; TBD
- WAC LIGHTING WALL SCONCE; EXACT FIXTURE TBD
- RETURN AIR DIFFUSER
- EXHAUST FAN
- SUPPLY AIR DIFFUSER
- LINEAR AIR DIFFUSER
- 555'-5 5/5" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

TRUE NORTH / PROJECT NORTH

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL CORPORATION CERT NO. 50417 SOUTH CAROLINA WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

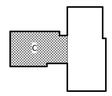
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 2 AREA C

ORIG SUBMISSION: - -
CURRENT: 2020.12.16 GMP SET

SHEET:
A-122C

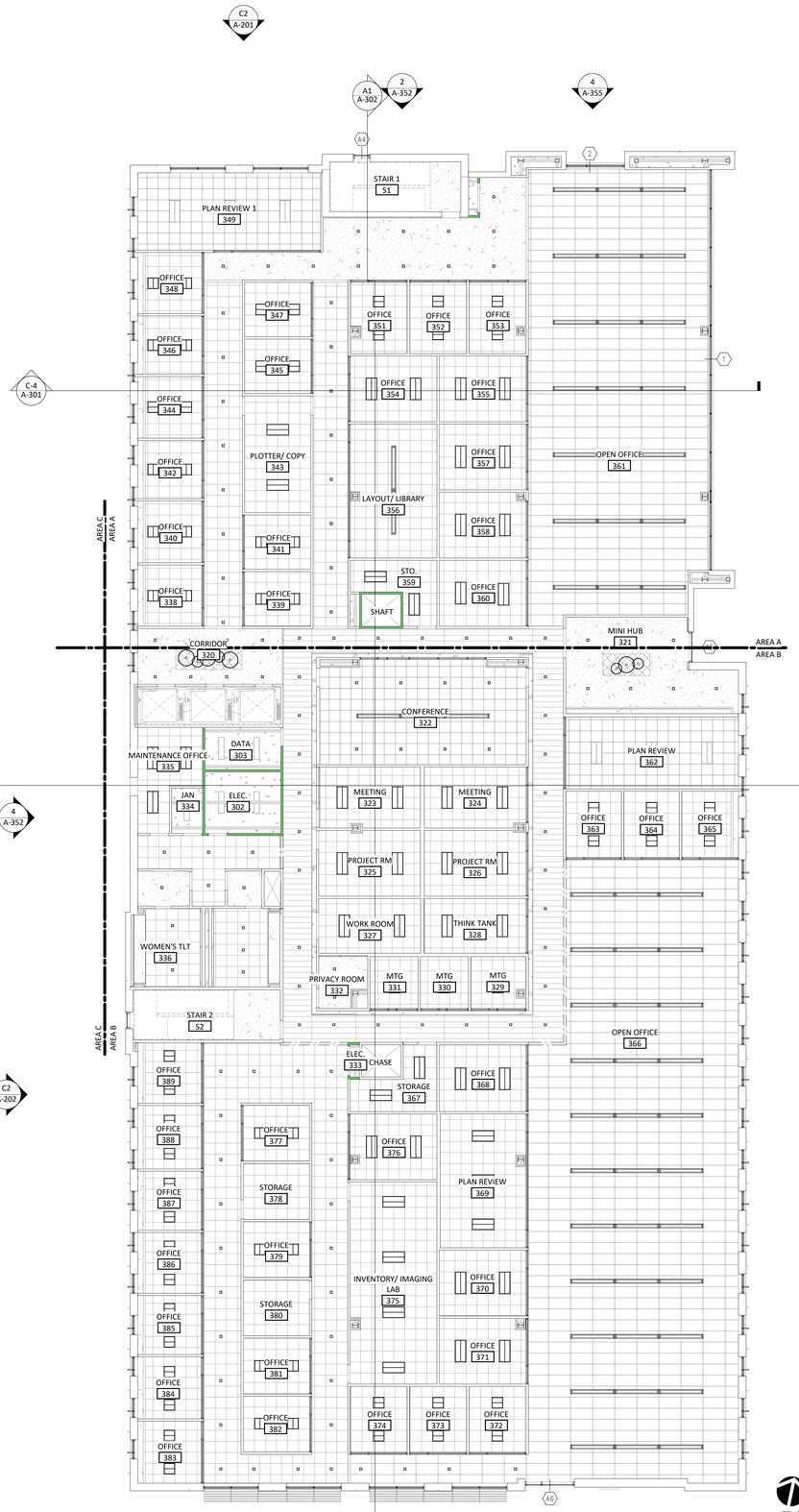
GMP SET

12/16/2020 9:32:55 AM

A1 / A-122C	RCP- PARTIAL- LEVEL 2 - AREA C	1/8" = 1'-0"	RCP LEGEND	1/8" = 1'-0"

1 2 3 4 5 6

E D C B A



RCP SHEET NOTES

1. SEE SHEET A001 FOR PARITION TYPES AND TERMINATION ABOVE CEILING
2. SEE FINISH SCHEDULE FOR CEILING TYPES & MATERIALS IN EACH ROOM / AREA.
3. DIMENSIONS ARE TO FACE OF STUD, TYPICAL.
4. ALL CEILINGS TO BE 8'-6" AFF, U.N.O.. CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. REFER TO INTERIOR ELEVATIONS FOR THE HEIGHTS OF SOFFITS ABOVE CASEWORK.
5. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
6. SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
7. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
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12. LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
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LEGEND- REFLECTED CEILING PLAN

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- ACT-2 24"x48" LAY-IN ACOUSTIC CEILING TILE
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- ACT-5 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- 3'-0"X3'-0" PIPE GRID SYSTEM STRUCTURE ABOVE EXPOSED & PNT BLACK
- WPP-1 WOOD SOFFIT
- GYPSUM BOARD
- EXPOSED STRUCTURE - NO CEILING
- EXPOSED STRUCTURE - DRYFALL PAINTED ABOVE
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- 2 X 4 LED RECESSED TROFFER
- 4" SQUARE RECESSED LED LIGHTS
- RECESSED LED STRIP LIGHT, LENGTH VARIES
- DECORATIVE PENDANT
- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
- 1'x4' LED SUSPENDED LINEAR UTILITY FIXTURE
- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER, TBD
- WAC LIGHTING WALL SCONCE; EXACT FIXTURE TBD
- RETURN AIR DIFFUSER
- EXHAUST FAN
- SUPPLY AIR DIFFUSER
- LINEAR AIR DIFFUSER
- 8'-6"/ 9'-5 5/8" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

CAPE FEAR FD STONEWATER

LS3P

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 3

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-123

GMP SET

12/16/2020 9:33:05 AM

A1 / A-123	OVERALL RCP-LEVEL 3	3/32" = 1'-0"	RCP LEGEND	1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE FULL SCALE PRINTING SIZE



A2
A-201

LEGEND- REFLECTED CEILING PLAN

- ACT-1 24"x24" LAY-IN ACOUSTIC CEILING TILE
- ACT-2 24"x48" LAY-IN ACOUSTIC CEILING TILE
- ACT-3 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
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- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
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- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER; TBD
- WAC LIGHTING WALL SCONCE; EXACT FIXTURE TBD
- RETURN AIR DIFFUSER
- EXHAUST FAN
- SUPPLY AIR DIFFUSER
- LINEAR AIR DIFFUSER
- 555'-5 5/5" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

TRUE NORTH
PROJECT NORTH

A1
A-123A
RCP- PARTIAL- LEVEL 3 - AREA A — 1/8" = 1'-0"

RCP LEGEND — 1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

12/16/2020 9:33:12 AM

CAPE FEAR FD STONEWATER

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NEW HANOVER COUNTY GOVERNMENT CENTER

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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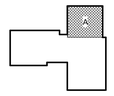
KEY PLAN:



SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 3 AREA A

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-123A

GMP SET



RCP SHEET NOTES

1. SEE SHEET A001 FOR PARITION TYPES AND TERMINATION ABOVE CEILING
2. SEE FINISH SCHEDULE FOR CEILING TYPES & MATERIALS IN EACH ROOM / AREA.
3. DIMENSIONS ARE TO FACE OF STUD, TYPICAL.
4. ALL CEILINGS TO BE 8'-6" AFF, U.N.O.. CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. REFER TO INTERIOR ELEVATIONS FOR THE HEIGHTS OF SOFFITS ABOVE CASEWORK.
5. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
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- EXHAUST FAN
- SUPPLY AIR DIFFUSER
- LINEAR AIR DIFFUSER
- 655'-5 5/5" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

TRUE NORTH / PROJECT NORTH

A1 A-123B	RCP- PARTIAL- LEVEL 3 - AREA B	1/8" = 1'-0"		RCP LEGEND	1/8" = 1'-0"

CAPE FEAR FD STONEWATER

LS3P

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LS3P PROJECT: 7702.190810

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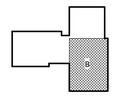


SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 3 AREA B

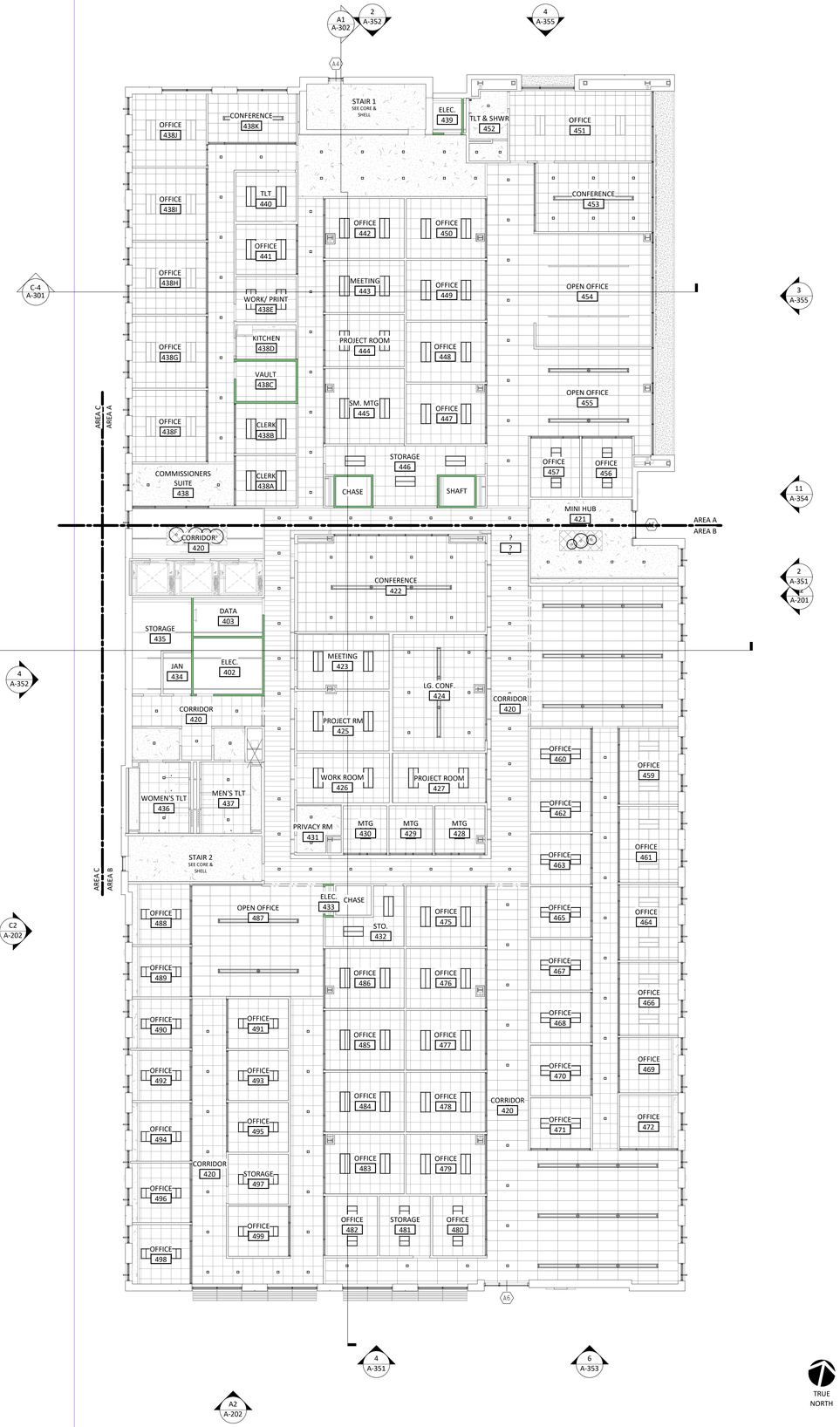
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-123B

GMP SET

12/16/2020 9:33:21 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



TRUE NORTH PROJECT NORTH

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2. SEE FINISH SCHEDULE FOR CEILING TYPES & MATERIALS IN EACH ROOM / AREA.
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LEGEND- REFLECTED CEILING PLAN

- ACT-1 24"x24" LAY-IN ACOUSTIC CEILING TILE
- ACT-2 24"x48" LAY-IN ACOUSTIC CEILING TILE
- ACT-3 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-4 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-5 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- 3'-0"X3'-0" PIPE GRID SYSTEM STRUCTURE ABOVE EXPOSED & PNT BLACK
- WPP-1 WOOD SOFFIT
- GYPSUM BOARD
- EXPOSED STRUCTURE - NO CEILING
- EXPOSED STRUCTURE - DRYFALL PAINTED ABOVE
- 2 X 2 LED RECESSED TROFFER
- 2 X 4 LED RECESSED TROFFER
- 4" SQUARE RECESSED LED LIGHTS
- RECESSED LED STRIP LIGHT, LENGTH VARIES
- DECORATIVE PENDANT
- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
- 1'x4' LED SUSPENDED LINEAR UTILITY FIXTURE
- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER; TBD
- WAC LIGHTING WALL SCONCE; EXACT FIXTURE TBD
- RETURN AIR DIFFUSER
- EXHAUST FAN
- SUPPLY AIR DIFFUSER
- LINEAR AIR DIFFUSER
- 555'-5 5/5" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. CERT.NO. 00417 WILMINGTON, NORTH CAROLINA

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 4

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-124

GMP SET

12/16/2020 9:33:30 AM

A1 / A-124 OVERALL RCP-LEVEL 4 — 3/32" = 1'-0"

RCP LEGEND — 1/8" = 1'-0"



RCP SHEET NOTES

1. SEE SHEET A001 FOR PARITION TYPES AND TERMINATION ABOVE CEILING
2. SEE FINISH SCHEDULE FOR CEILING TYPES & MATERIALS IN EACH ROOM / AREA.
3. DIMENSIONS ARE TO FACE OF STUD, TYPICAL.
4. ALL CEILINGS TO BE 8'-6" AFF, U.N.O.. CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. REFER TO INTERIOR ELEVATIONS FOR THE HEIGHTS OF SOFFITS ABOVE CASEWORK.
5. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
6. SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
7. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
8. SEE MECHANICAL FLOOR PLANS FOR EXTENT OF EXPOSED DUCTWORK IN EXPOSED STRUCTURE AREAS WITHOUT CEILINGS.
9. EXTEND PERIMETER WALLS AND FINISH TO STRUCTURE ABOVE AT EXPOSED STRUCTURE AREAS. PAINT ALL EXPOSED DUCTWORK, PIPING, HANGERS, ETC...
10. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
11. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS SMOKE DETECTORS, SPEAKERS, GENERAL ALARM SPEAKERS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN MULTIPLE ITEM CENTER OR EDGES.
12. LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
13. INSTALL ACCESS PANELS IN GYPSUM BOARD CEILINGS AT DUCT DAMPER CONTROLS, DUCT MOUNTED SMOKE DETECTORS, MANUAL DUCT CONTROLS, ETC.
14. ALL SINGLE LIGHT FIXTURES SHALL BE CENTERED IN THE CEILING WITHIN WHICH THEY OCCUR.
15. LIGHTS LOCATED IN STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
16. LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.
17. SPRINKLER HEADS, OTHER THAN CONCEALED, SHALL BE SEMI RECESSED (CENTER IN CEILING TILE).
18. ALL GWB CEILINGS TO RECEIVE CONCEALED SPRINKLER HEADS.
19. WHERE ACT CEILINGS OVERLAP, LOWER CEILING SHALL OVERLAP BY ATLEAST 8 INCHES. LOWER ACT CEILING TO RECEIVE 6" KNIFE EDGE AROUND THE PERIMETER U.N.O.
20. SOUND ATTENUATE BATT ABOVE CEILING IN ALL OFFICES, CONFERENCE ROOMS, TRAINING ROOMS & EOC; ENTIRE CEILING.

LEGEND- REFLECTED CEILING PLAN

- ACT-1 24"x24" LAY-IN ACOUSTIC CEILING TILE
- ACT-2 24"x48" LAY-IN ACOUSTIC CEILING TILE
- ACT-3 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-4 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-5 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- 3'-0"X3'-0" PIPE GRID SYSTEM STRUCTURE ABOVE EXPOSED & PNT BLACK
- WPP-1 WOOD SOFFIT
- GYPSUM BOARD
- EXPOSED STRUCTURE - NO CEILING
- EXPOSED STRUCTURE - DRYFALL PAINTED ABOVE
- 2 X 2 LED RECESSED TROFFER
- 2 X 4 LED RECESSED TROFFER
- 4" SQUARE RECESSED LED LIGHTS
- RECESSED LED STRIP LIGHT, LENGTH VARIES
- DECORATIVE PENDANT
- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
- 1'x4' LED SUSPENDED LINEAR UTILITY FIXTURE
- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER; TBD
- WAC LIGHTING WALL SCONCE; EXACT FIXTURE TBD
- RETURN AIR DIFFUSER
- EXHAUST FAN
- SUPPLY AIR DIFFUSER
- LINEAR AIR DIFFUSER
- 555'-5 5/5" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

TRUE NORTH / PROJECT NORTH

A1 / A-124A — RCP- PARTIAL- LEVEL 4 - AREA A — 1/8" = 1'-0"

RCP LEGEND — 1/8" = 1'-0"

CAPE FEAR FD STONEWATER

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NHC Goverment Center 7702-190810

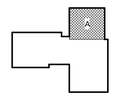
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 4 AREA A

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-124A

GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

12/16/2020 9:33:36 AM



THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

E

D

C

B

A

RCP SHEET NOTES

1. SEE SHEET A001 FOR PARITION TYPES AND TERMINATION ABOVE CEILING
2. SEE FINISH SCHEDULE FOR CEILING TYPES & MATERIALS IN EACH ROOM / AREA.
3. DIMENSIONS ARE TO FACE OF STUD, TYPICAL.
4. ALL CEILINGS TO BE 8'-6" AFF, U.N.O.. CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. REFER TO INTERIOR ELEVATIONS FOR THE HEIGHTS OF SOFFITS ABOVE CASEWORK.
5. CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
6. SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
7. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
8. SEE MECHANICAL FLOOR PLANS FOR EXTENT OF EXPOSED DUCTWORK IN EXPOSED STRUCTURE AREAS WITHOUT CEILINGS.
9. EXTEND PERIMETER WALLS AND FINISH TO STRUCTURE ABOVE AT EXPOSED STRUCTURE AREAS. PAINT ALL EXPOSED DUCTWORK, PIPING, HANGERS, ETC...
10. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
11. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS SMOKE DETECTORS, SPEAKERS, GENERAL ALARM SPEAKERS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN MULTIPLE ITEM CENTER OR EDGES.
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14. ALL SINGLE LIGHT FIXTURES SHALL BE CENTERED IN THE CEILING WITHIN WHICH THEY OCCUR.
15. LIGHTS LOCATED IN STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
16. LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.
17. SPRINKLER HEADS, OTHER THAN CONCEALED, SHALL BE SEMI RECESSED (CENTER IN CEILING TILE).
18. ALL QWB CEILINGS TO RECEIVE CONCEALED SPRINKLER HEADS.
19. WHERE ACT CEILINGS OVERLAP, LOWER CEILING SHALL OVERLAP BY ATLEAST 8 INCHES. LOWER ACT CEILING TO RECEIVE 6" KNIFE EDGE AROUND THE PERIMETER U.N.O.
20. SOUND ATTENUATE BATT ABOVE CEILING IN ALL OFFICES, CONFERENCE ROOMS, TRAINING ROOMS & EOC; ENTIRE CEILING.

LEGEND- REFLECTED CEILING PLAN

- ACT-1 24"x24" LAY-IN ACOUSTIC CEILING TILE
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- ACT-4 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- ACT-5 48"x96" LAY-IN ACOUSTIC CEILING W/ INTEGRATED LIGHTING AND HVAC
- 3'-0"X3'-0" PIPE GRID SYSTEM STRUCTURE ABOVE EXPOSED & PNT BLACK
- WPP-1 WOOD SOFFIT
- GYPSUM BOARD
- EXPOSED STRUCTURE - NO CEILING
- EXPOSED STRUCTURE - DRYFALL PAINTED ABOVE
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- 2 X 4 LED RECESSED TROFFER
- 4" SQUARE RECESSED LED LIGHTS
- RECESSED LED STRIP LIGHT, LENGTH VARIES
- DECORATIVE PENDANT
- CONTINUOUS LINEAR SUSPENSION INDIRECT/ DIRECT LED, LENGTH VARIES
- 1'x4' LED SUSPENDED LINEAR UTILITY FIXTURE
- LED PENDANT, MULTI HEIGHT/ SHAPE/ DIAMETER; TBD
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- LINEAR AIR DIFFUSER
- 555'-5 5/5" AFF — HEIGHT ABOVE FINSHES FLOOR 9'-0" U.N.O.
- LIGHT COVE

TRUE NORTH / PROJECT NORTH

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NHC Goverment Center 7702-190810

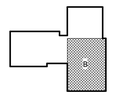
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME: REFLECTED CEILING PLAN- LEVEL 4 AREA B

ORIG SUBMISSION: - -
CURRENT: 2020.12.16 GMP SET

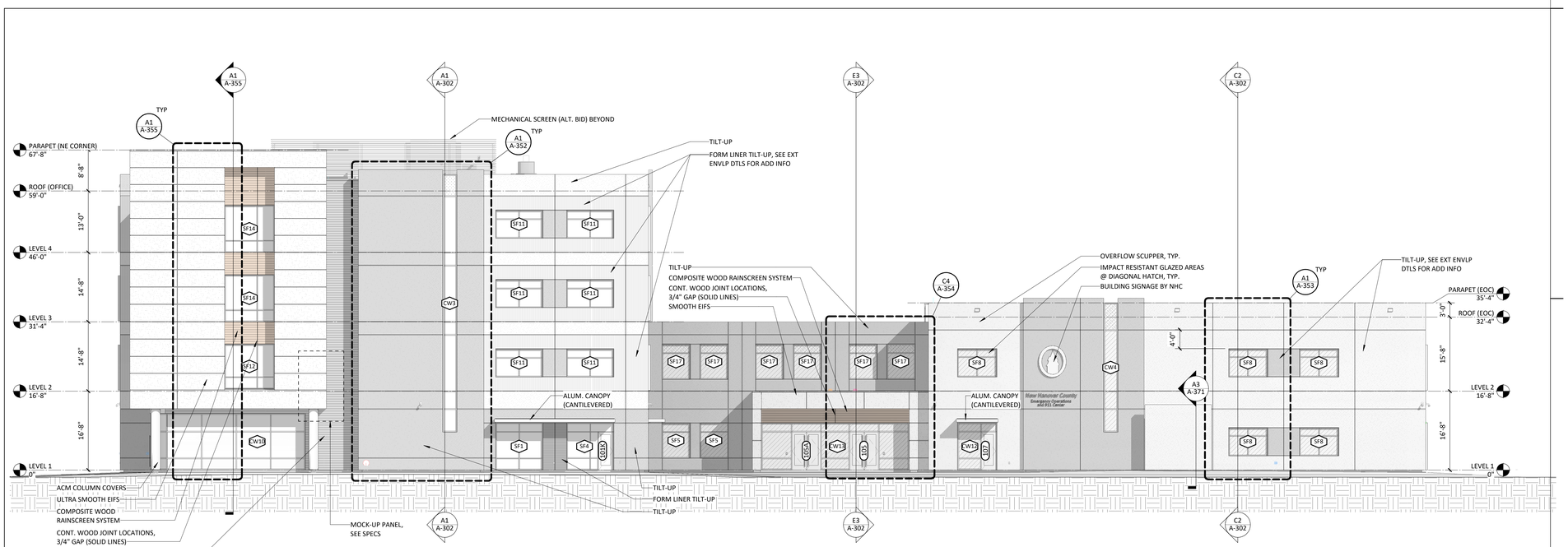
SHEET: A-124B

GMP SET

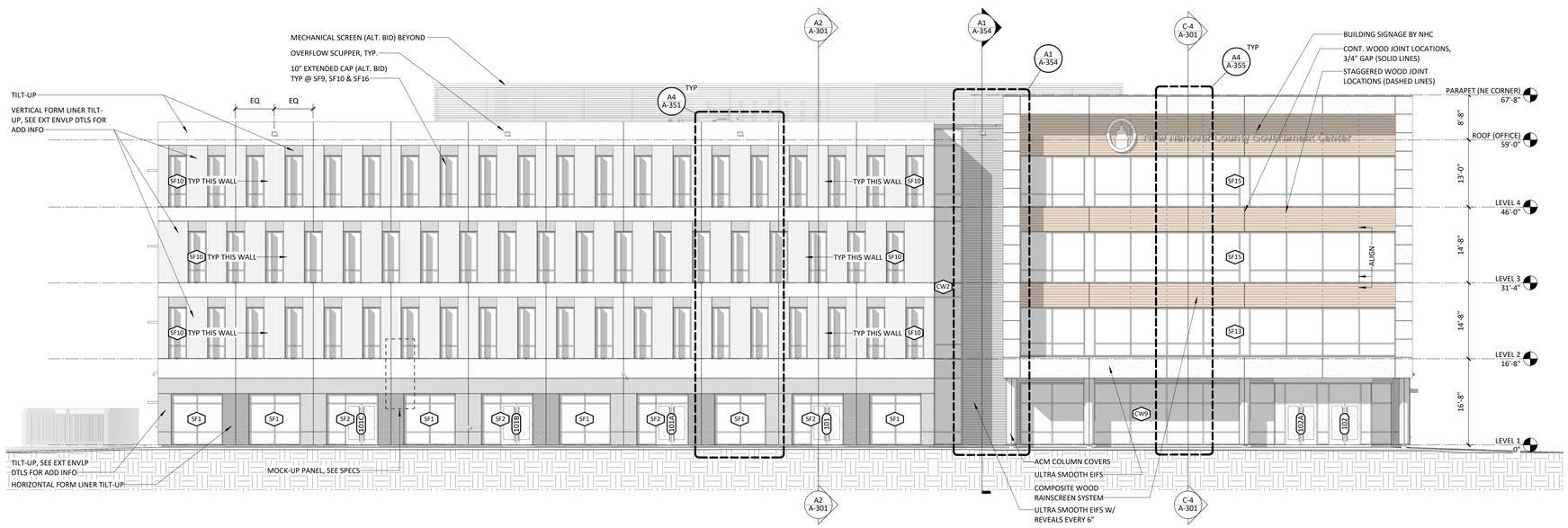
12/16/2020 9:33:44 AM

A1 / A-124B	RCP- PARTIAL- LEVEL 4 - AREA B	1/8" = 1'-0"	RCP LEGEND	1/8" = 1'-0"

1 2 3 4 5 6



C2 A-201 **EXTERIOR ELEVATION - NORTH** 3/32" = 1'-0"



A2 A-201 **EXTERIOR ELEVATION - EAST** 3/32" = 1'-0"

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

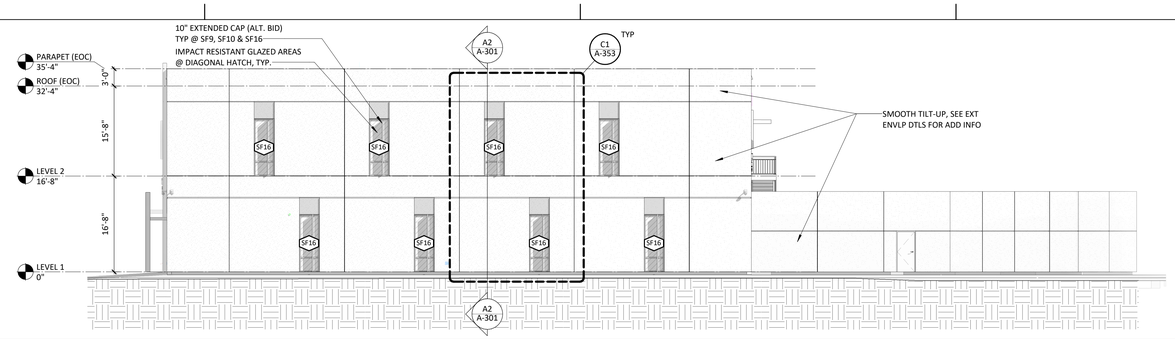
SHEET NAME: EXTERIOR ELEVATIONS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16 GMP SET

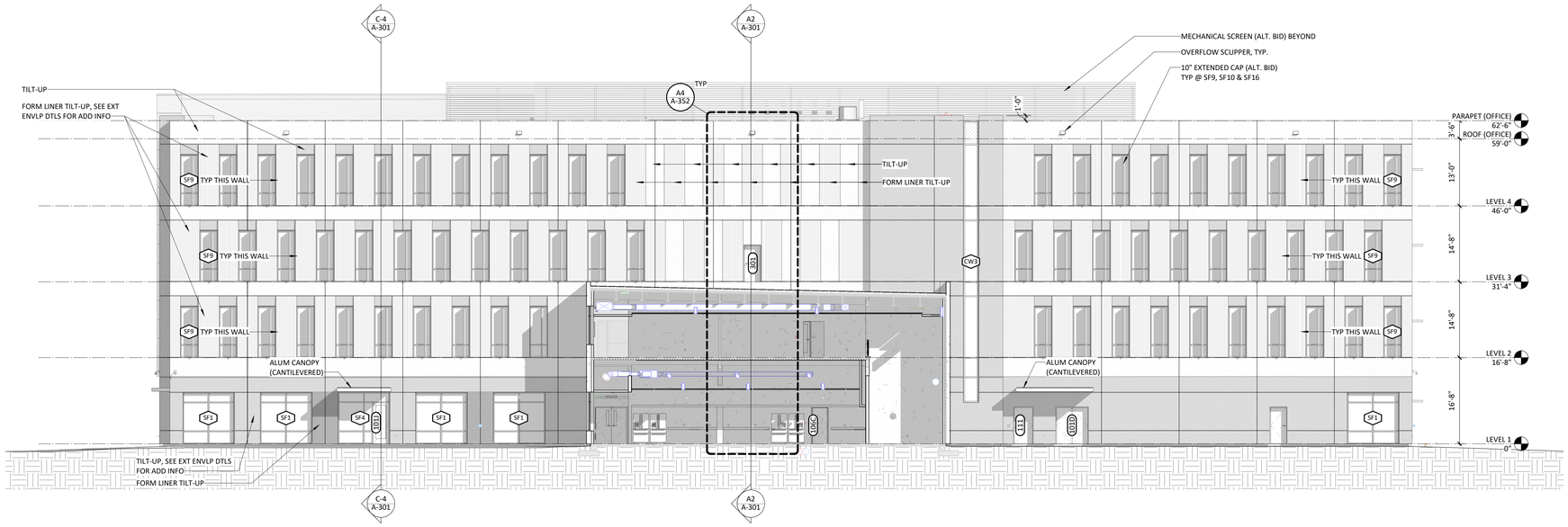
SHEET: A-201

GMP SET

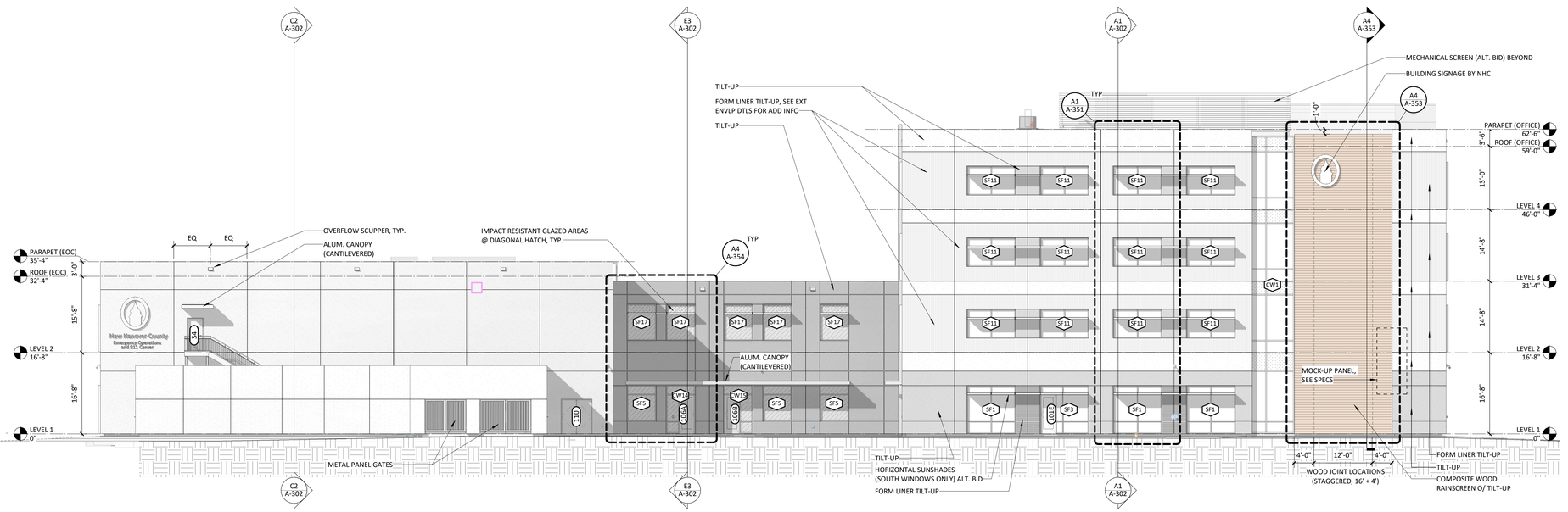
12/16/2020 9:43:06 AM

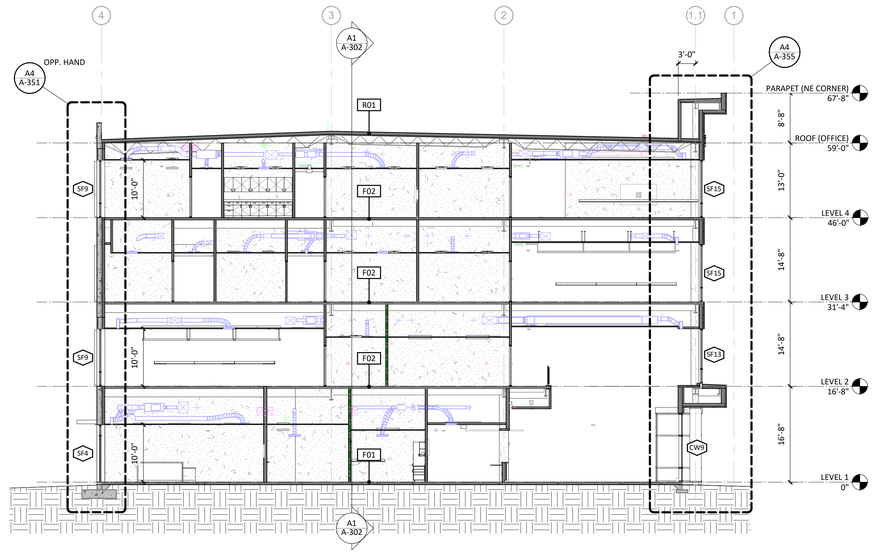


E3	EXTERIOR ELEVATION - WEST (EOC)	3/32" = 1'-0"
A-202		

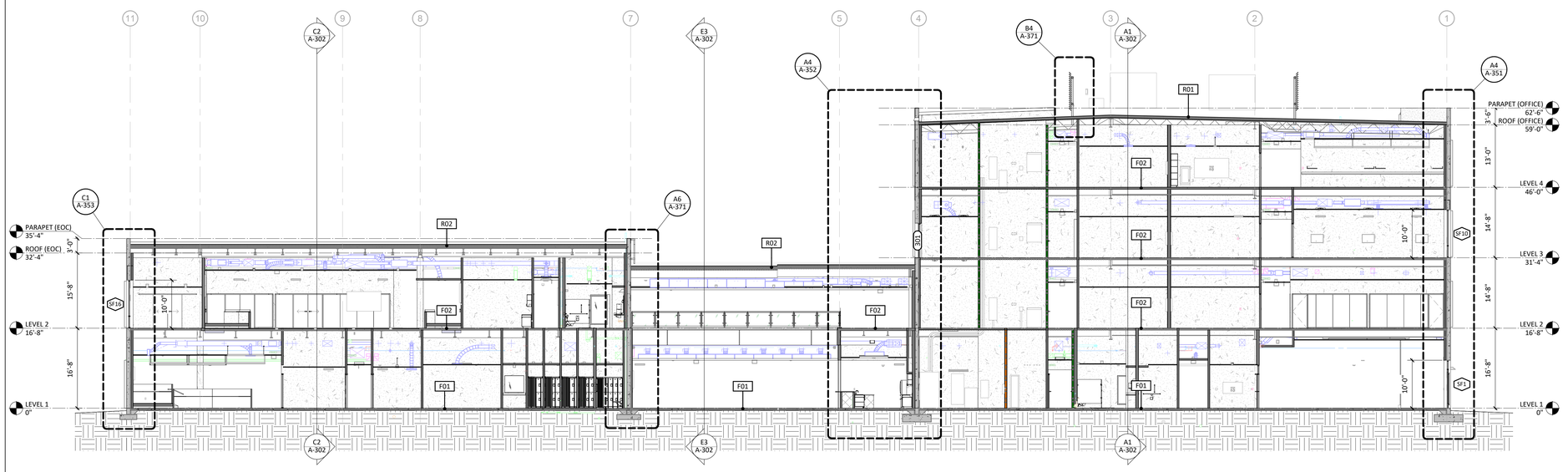


C2	EXTERIOR ELEVATION - WEST (OFFICE)	3/32" = 1'-0"
A-202		





C-4 / A-301	BUILDING SECTION - EAST/WEST (OFFICE)	3/32" = 1'-0"



A2 / A-301	BUILDING SECTION - EAST/WEST	3/32" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 9:52:33 AM

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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WWW.LS3P.COM

LS3P ASSOCIATES LTD. CERT NO. 00417 WILMINGTON, NORTH CAROLINA

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NHC Goverment Center 7702-190810

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LS3P PROJECT: 7702-190810

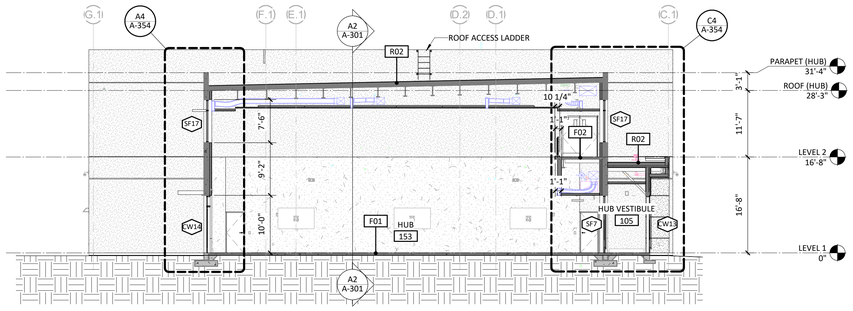
Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
BUILDING SECTIONS

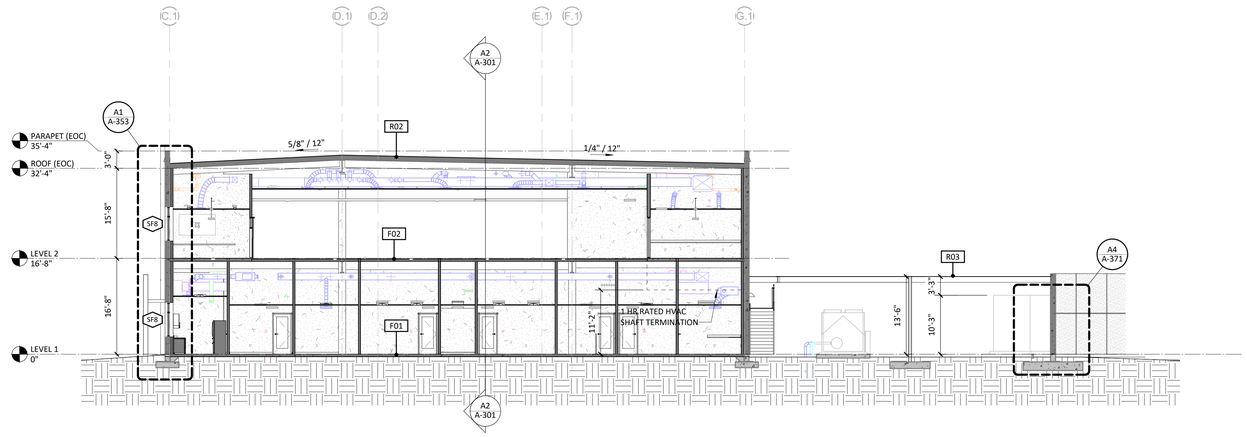
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-301

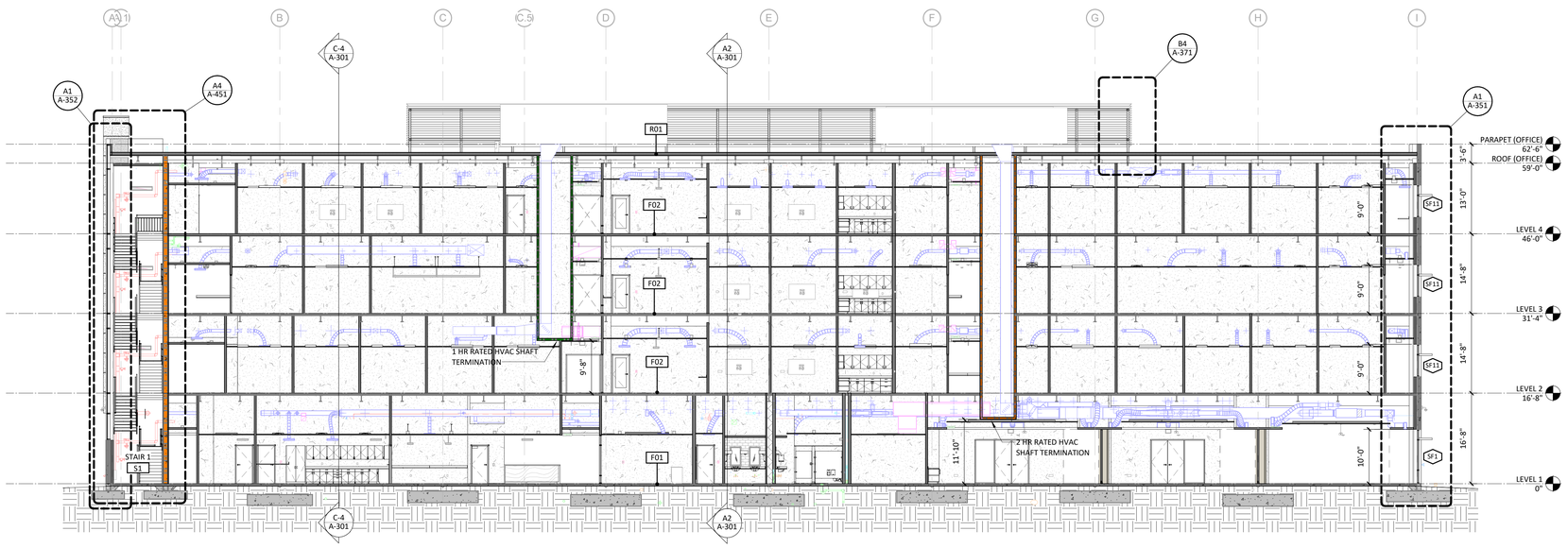
GMP SET



E3	BUILDING SECTION - NORTH/SOUTH (HUB)	3/32" = 1'-0"
A-302		



C2	BUILDING SECTION - NORTH/SOUTH (EOC)	3/32" = 1'-0"
A-302		



A1	BUILDING SECTION - NORTH/SOUTH (OFFICE)	3/32" = 1'-0"
A-302		

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C	2020.12.16	GMP SET

SHEET NAME:
BUILDING SECTIONS

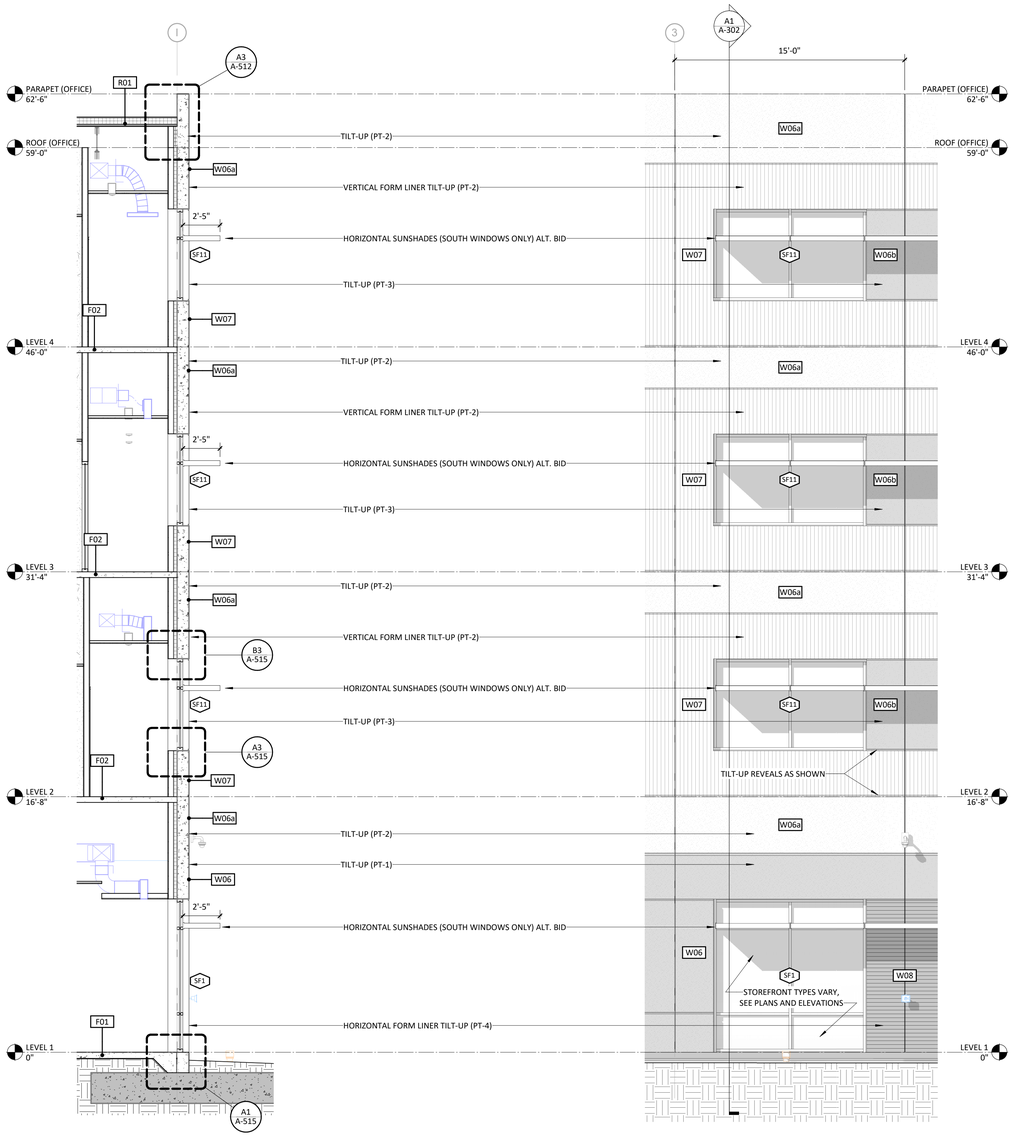
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-302

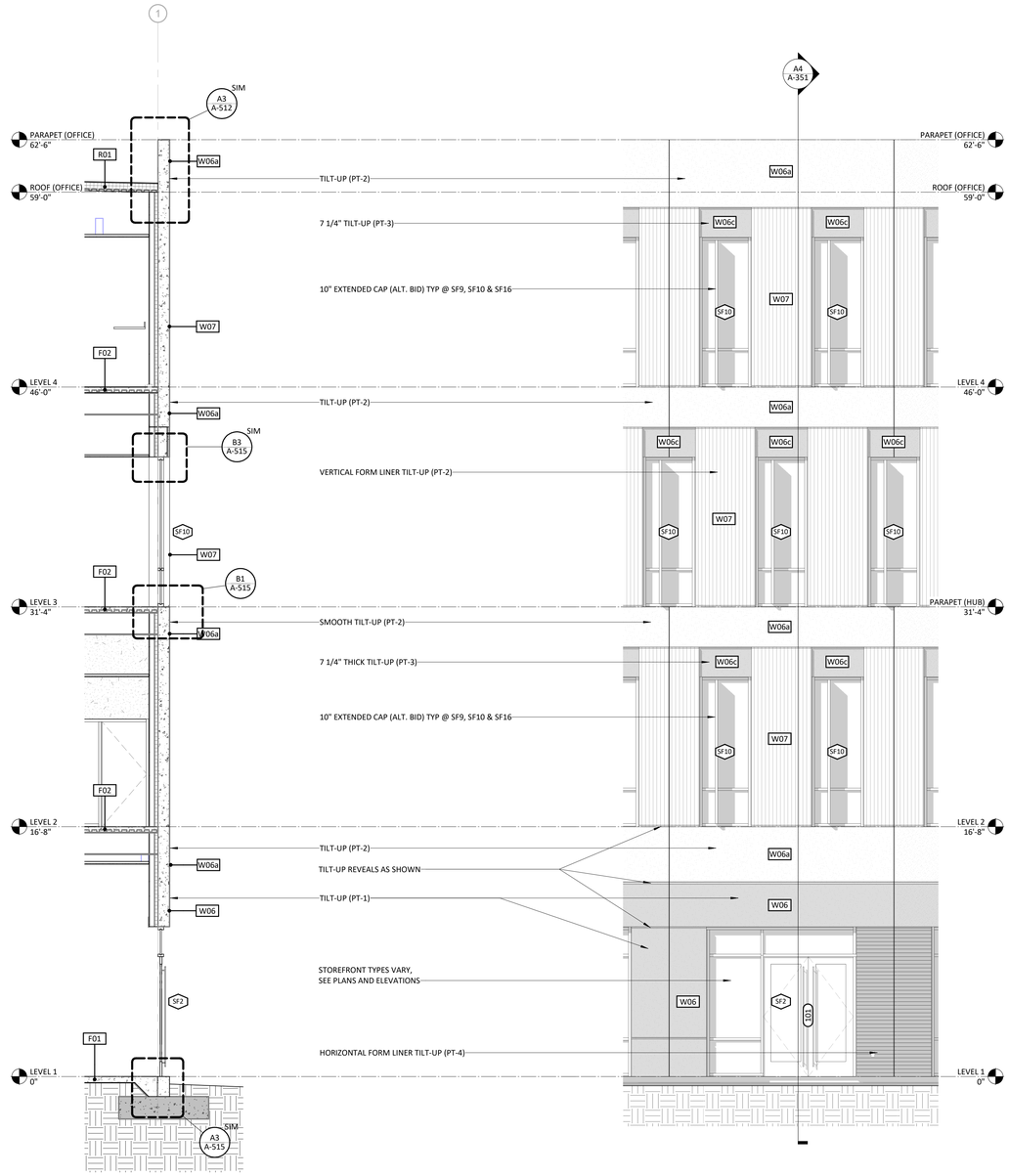
GMP SET

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 9:52:55 AM



A1 / A-351	WALL SECTION - TYP. TILT-UP (NORTH/SOUTH)	1/4" = 1'-0"



A4 / A-351	WALL SECTION - TYP. TILT-UP (EAST/WEST)	1/4" = 1'-0"

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NOT FOR CONSTRUCTION

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NEW HANOVER COUNTY GOVERNMENT CENTER

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
EXTERIOR ENVELOPE DETAILS

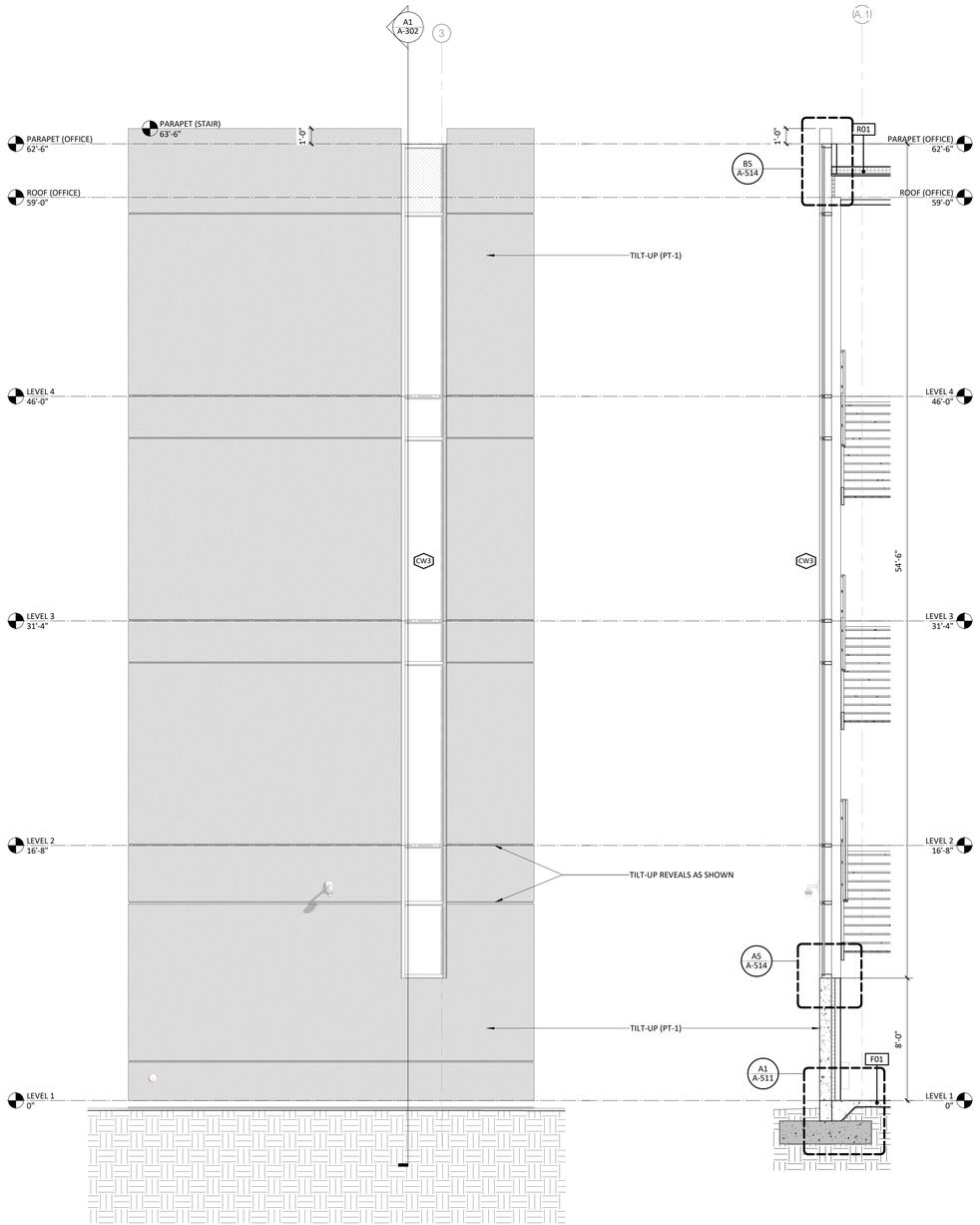
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

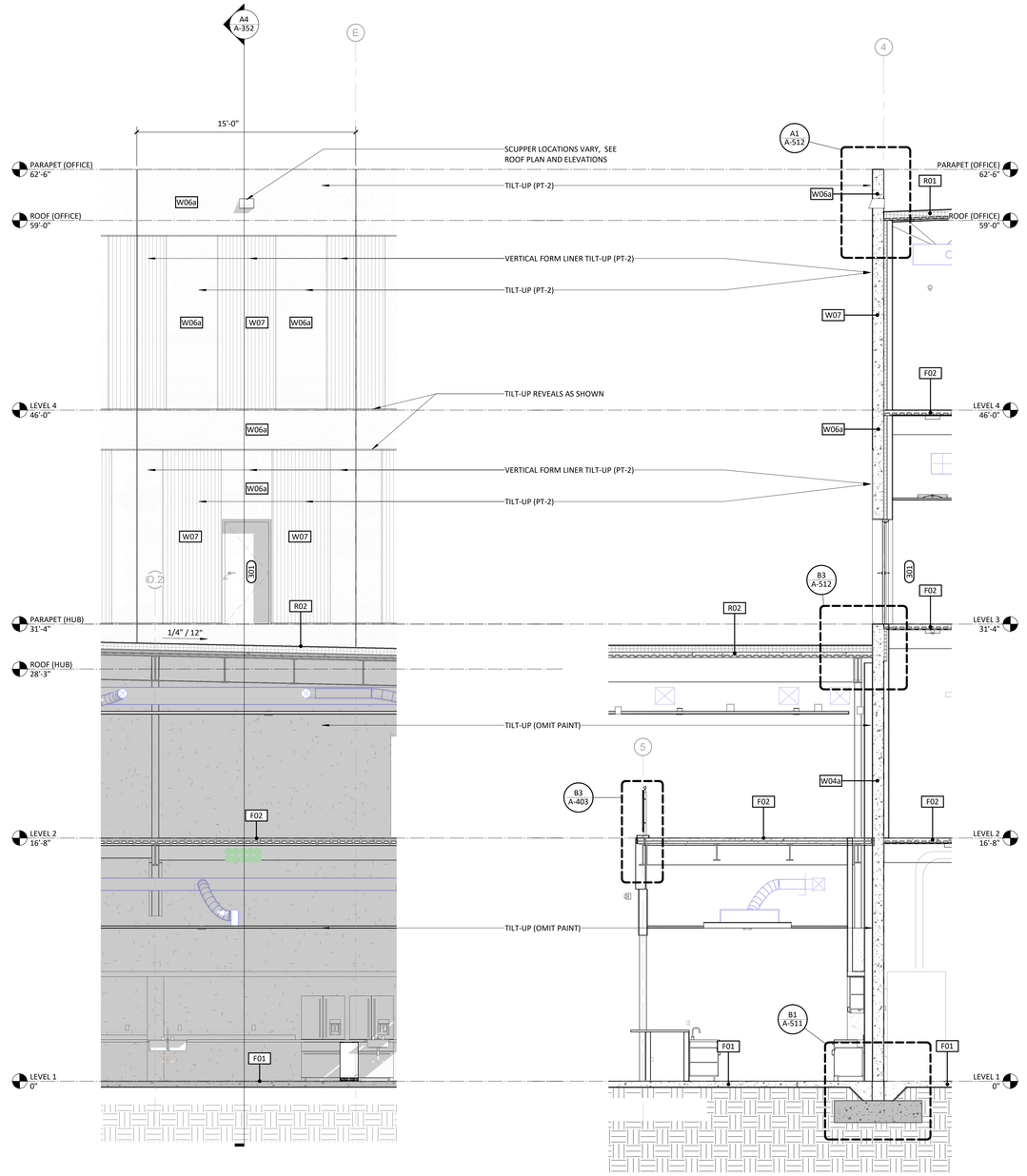
SHEET:
A-351

GMP SET

12/16/2020 9:53:19 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE





A1 / A-352	WALL SECTION - TILT-UP @ STAIR	1/4" = 1'-0"
A4 / A-352	WALL SECTION - TYP. TILT-UP (OFFICE CORE)	1/4" = 1'-0"

1 2 3 4 5 6

A B C D E

12/16/2020 9:53:39 AM

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 00417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

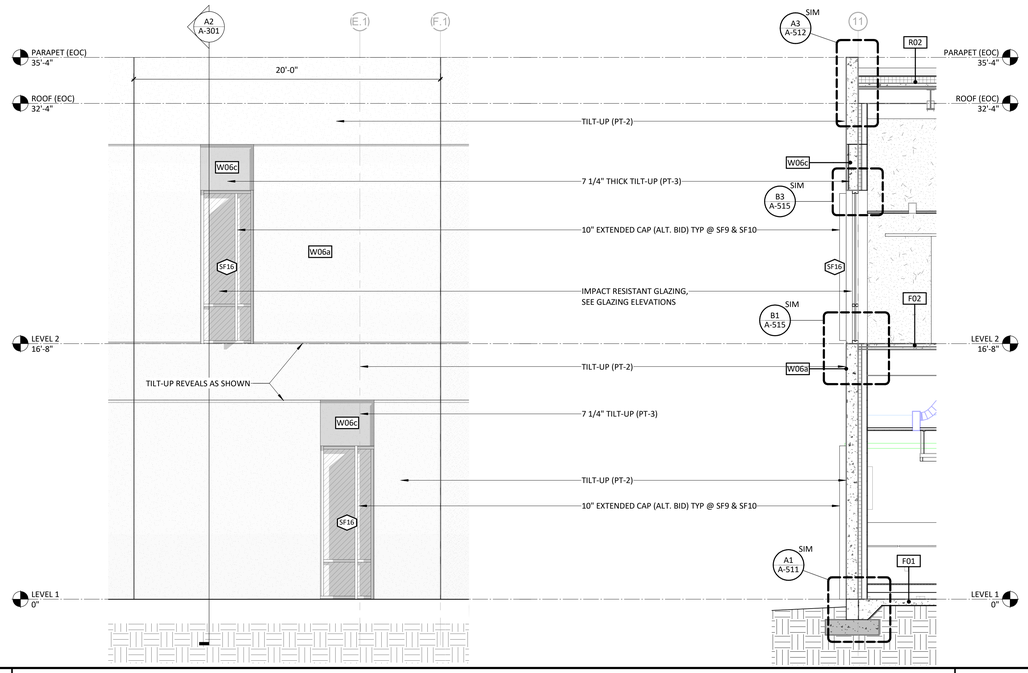
Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
EXTERIOR ENVELOPE DETAILS

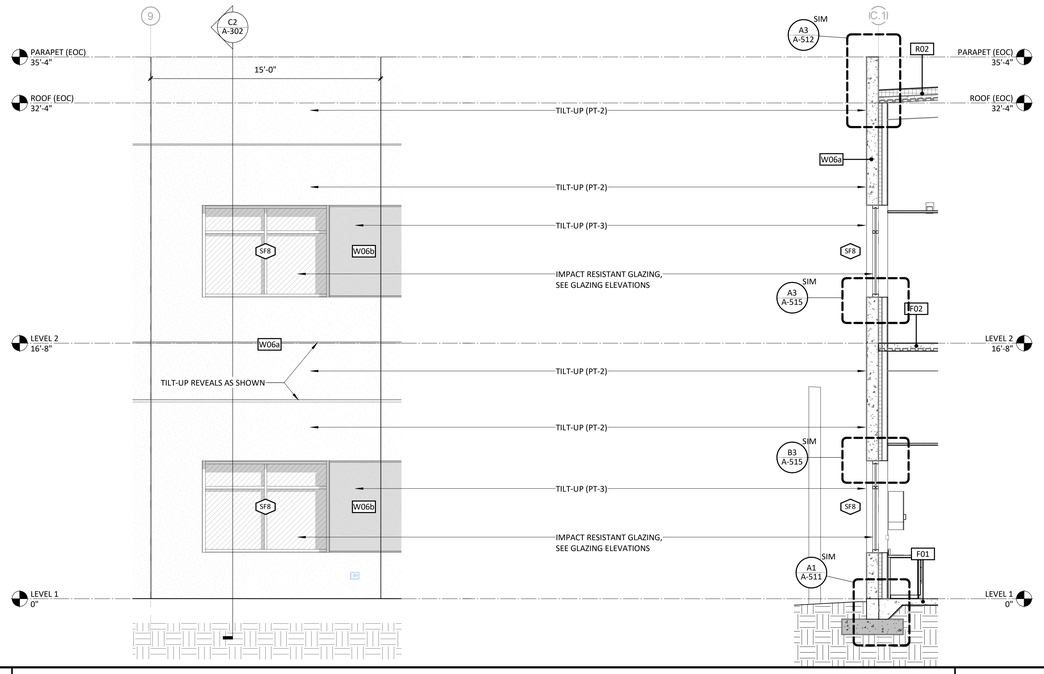
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-352

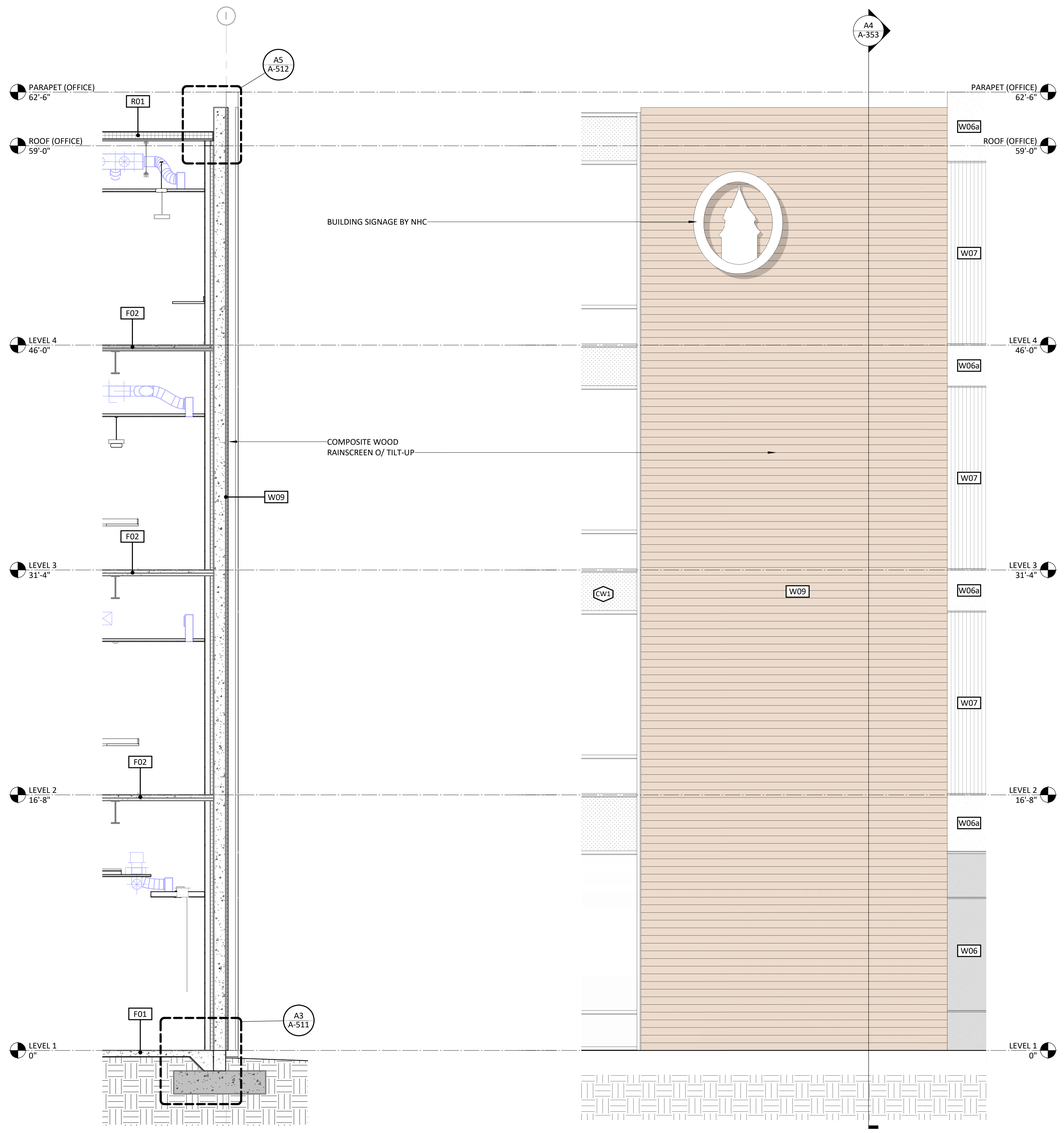
GMP SET



C1 A-353 WALL SECTION - TYP. TILT-UP (EOC WEST) 1/4" = 1'-0"



A1 A-353 WALL SECTION - TYP. TILT-UP (EOC NORTH) 1/4" = 1'-0"



A4 A-353 WALL SECTION - TILT-UP (WOOD) 1/4" = 1'-0"

CAPE FEAR FD STONEWATER

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

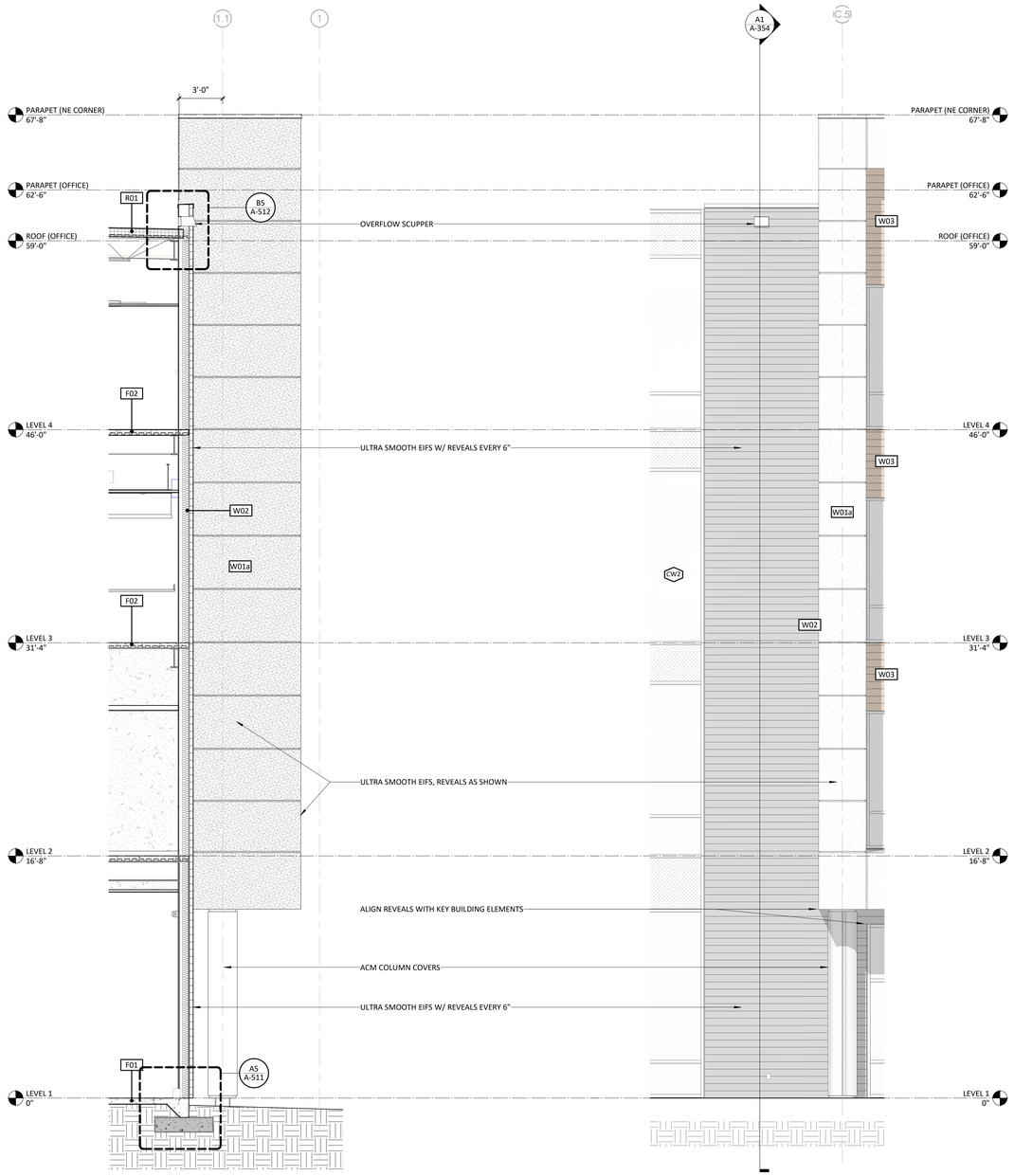
SHEET NAME:
EXTERIOR ENVELOPE DETAILS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

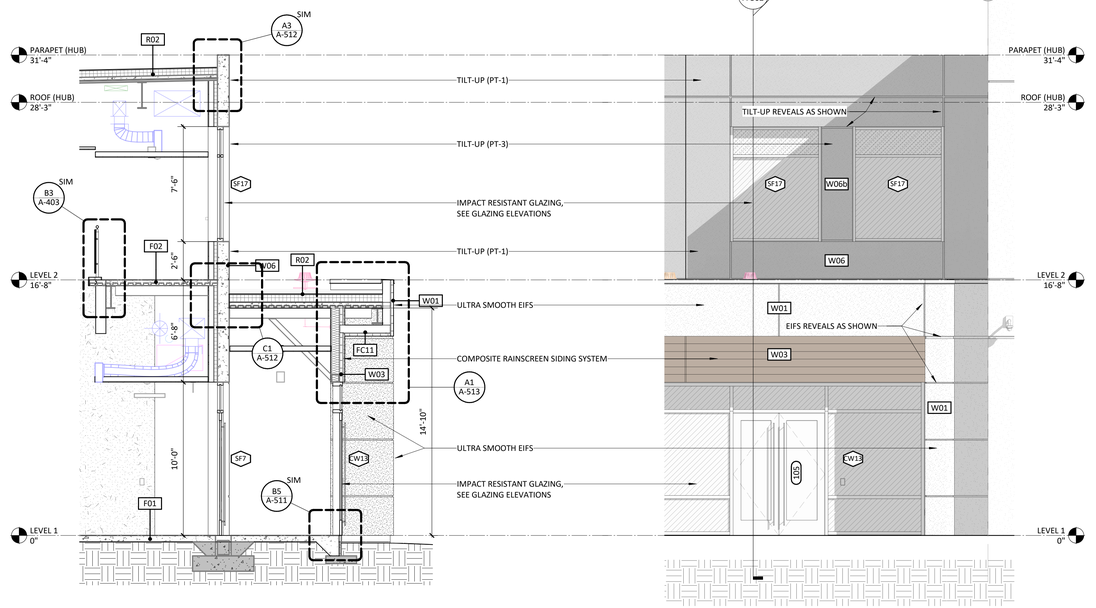
SHEET:
A-353

GMP SET

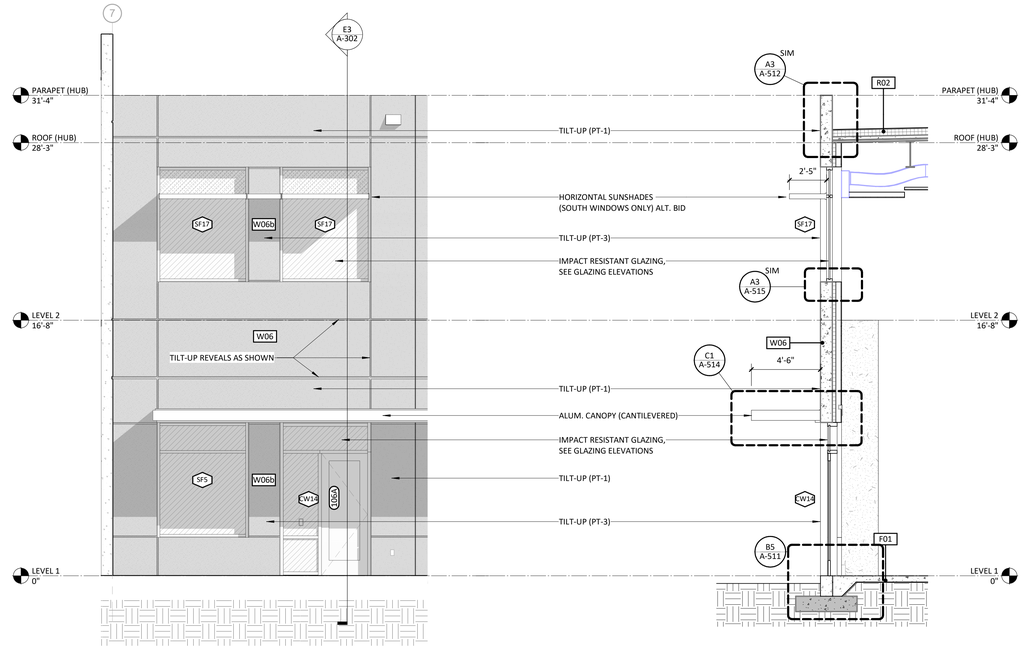
12/16/2020 9:53:54 AM



A1 A-354	WALL SECTION - NE CORNER (EIFS)	1/4" = 1'-0"



C4 A-354	WALL SECTION - VESTIBULE (HUB)	1/4" = 1'-0"



A4 A-354	WALL SECTION - TYP. TILT-UP (HUB)	1/4" = 1'-0"

12/16/2020 9:54:10 AM

1 2 3 4 5 6

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

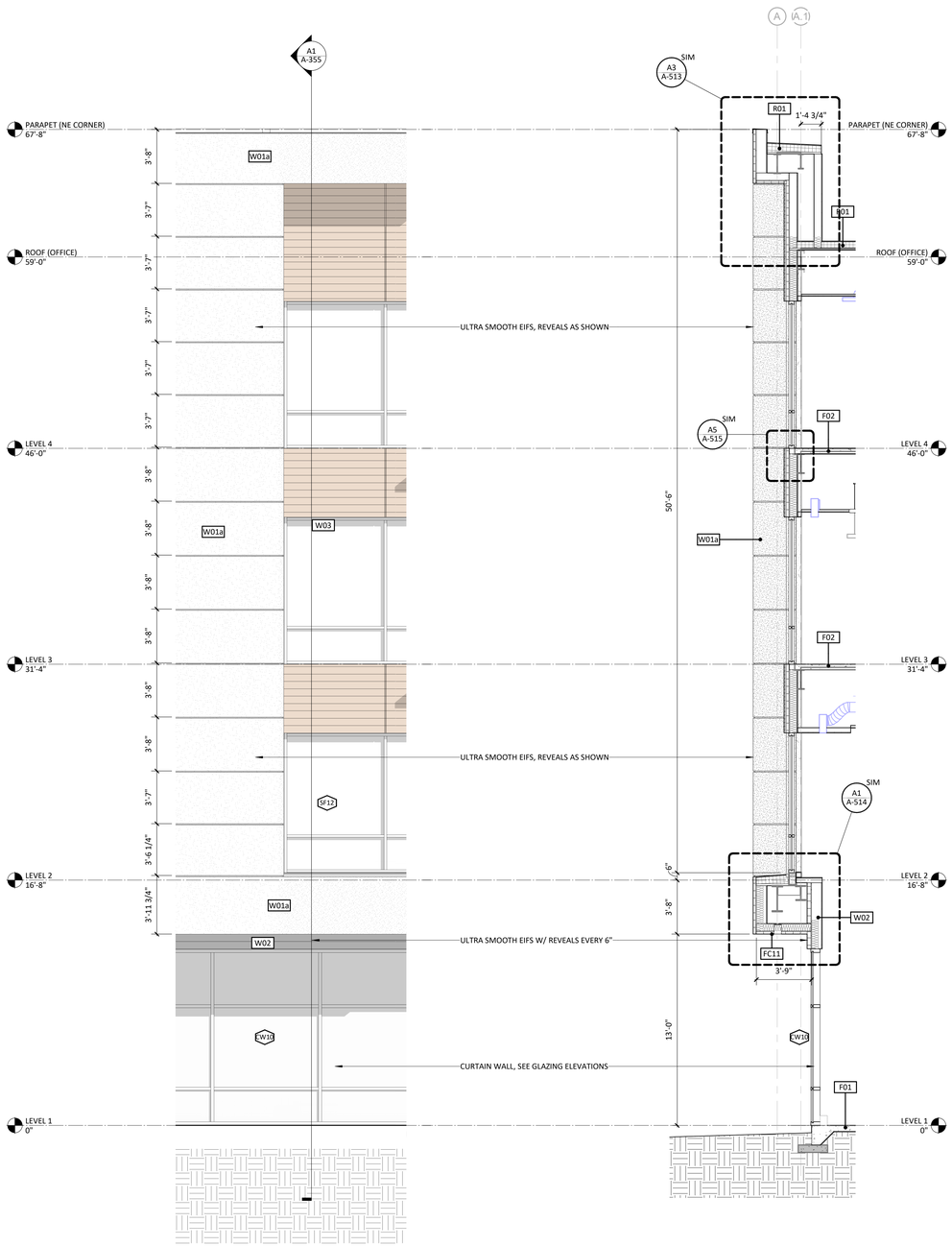
Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

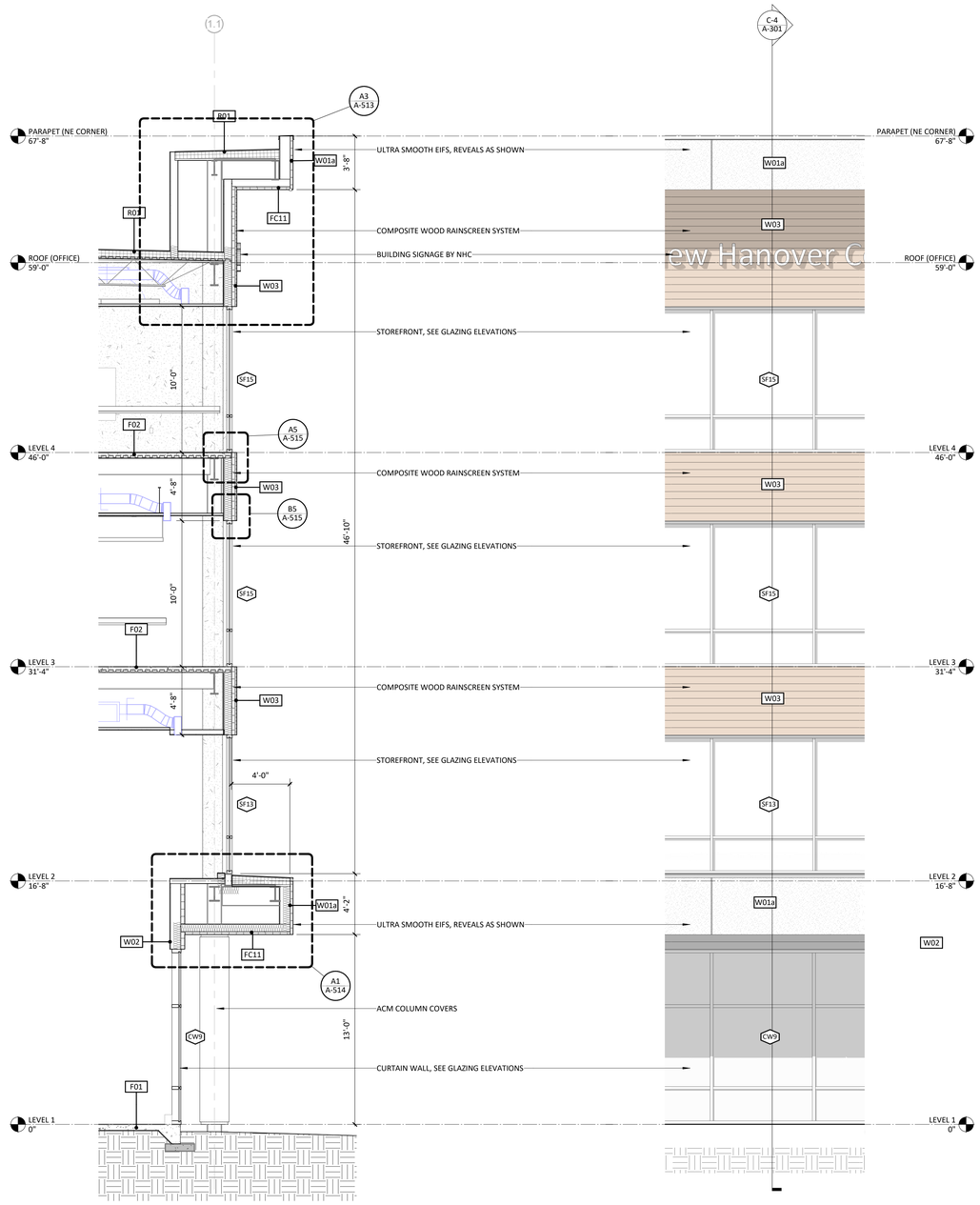
SHEET NAME:
EXTERIOR ENVELOPE DETAILS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-354

GMP SET





A1 / A-355	WALL SECTION - NE CORNER (NORTH)	1/4" = 1'-0"

A4 / A-355	WALL SECTION - NE CORNER (EAST)	1/4" = 1'-0"

1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 9:54:29 AM

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

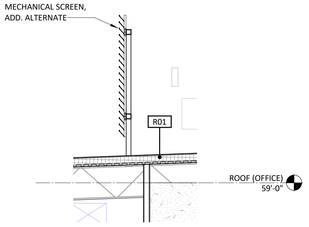
SHEET NAME:
EXTERIOR ENVELOPE DETAILS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

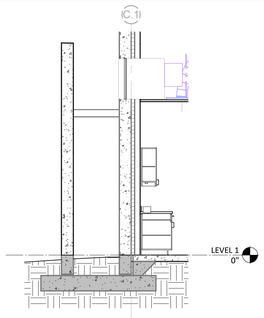
SHEET:
A-355

GMP SET

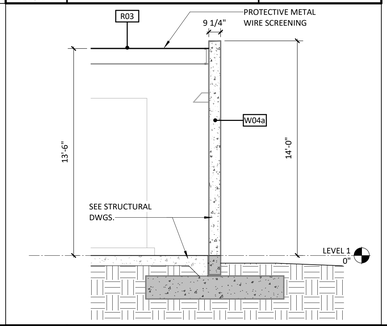
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



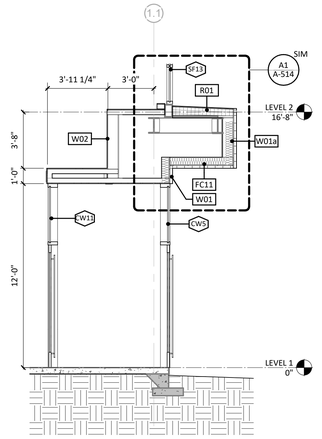
B4 / A-371 — ROOF MECH. SCREEN — 1/4" = 1'-0"



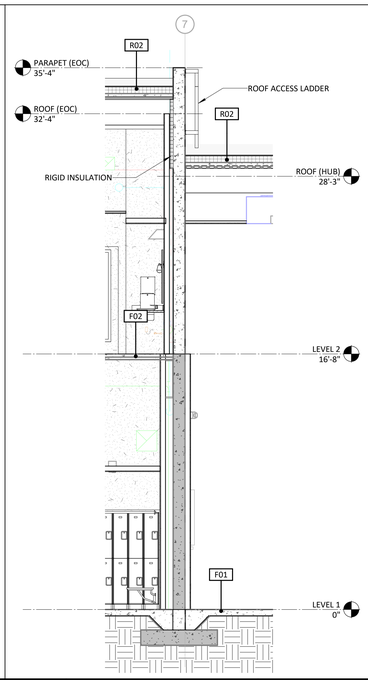
A3 / A-371 — EOC LOUVER — 1/4" = 1'-0"



A4 / A-371 — MECH. YARD — 1/4" = 1'-0"



A5 / A-371 — VESTIBULE (OFFICE) — 1/4" = 1'-0"



A6 / A-371 — EOC/HUB — 1/4" = 1'-0"

12/16/2020 9:54:35 AM

1 2 3 4 5 6

A B C D E

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

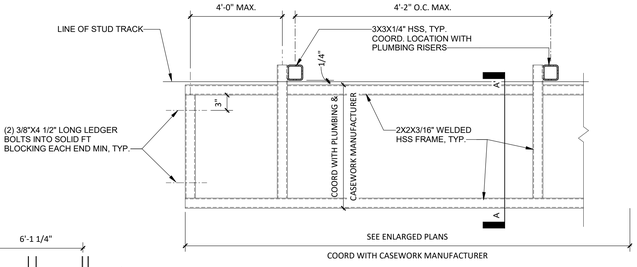
Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
MISC. WALL SECTIONS

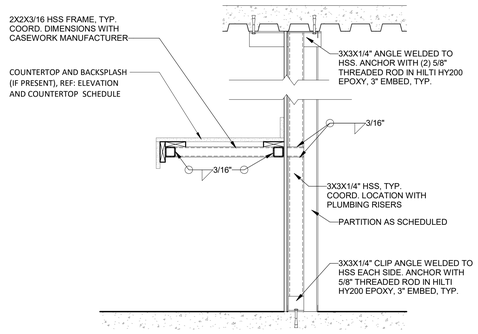
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-371

GMP SET

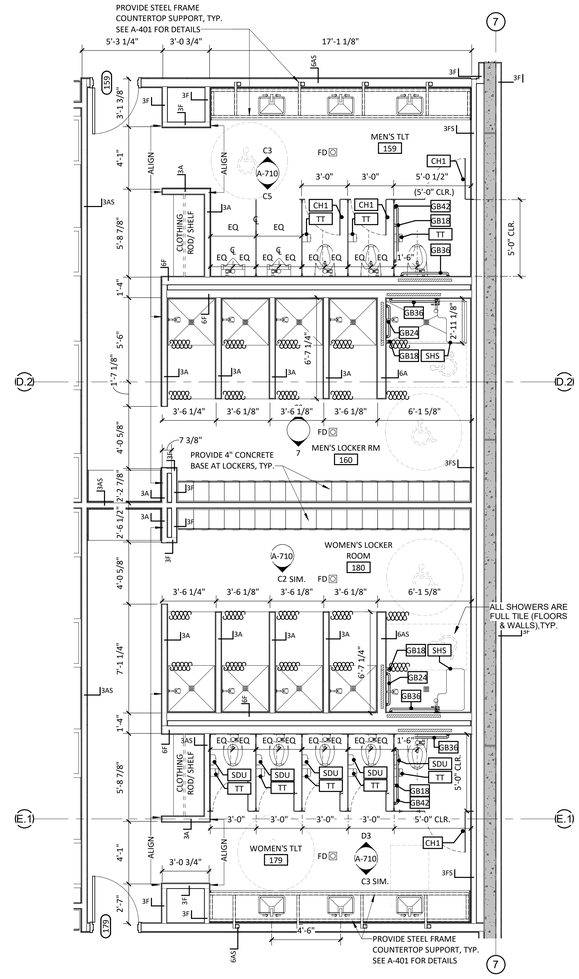


PARTIAL PLAN

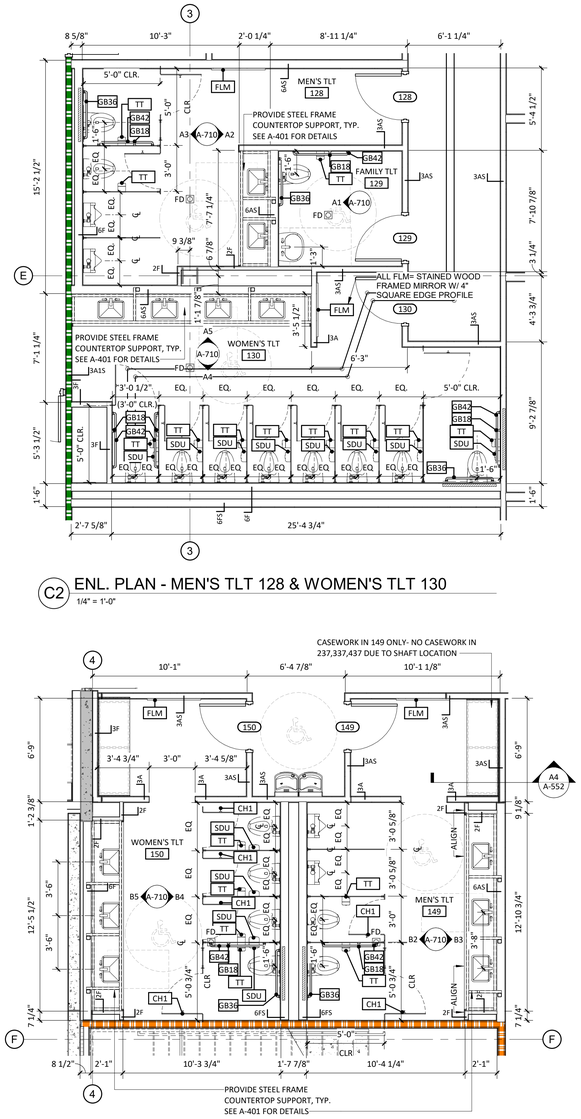


SECTION A A'

E4 STEEL COUNTERTOP SUPPORT
1" = 1'-0"

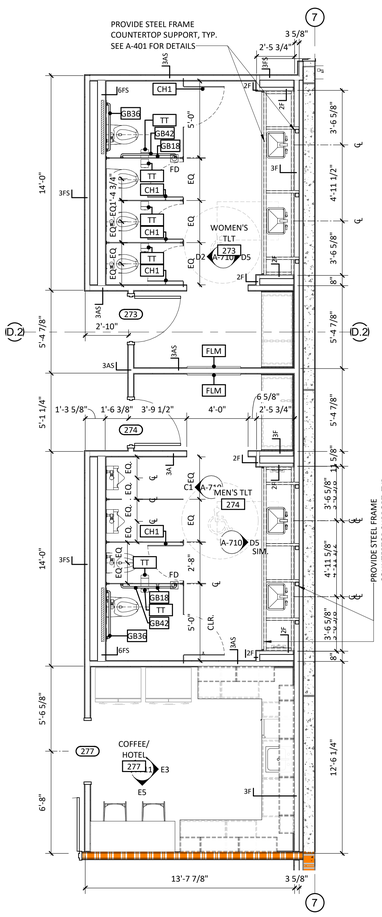


B1 ENL. PLAN - MEN'S TLT 159/160 & WOMEN'S TLT 179/180
1/4" = 1'-0"

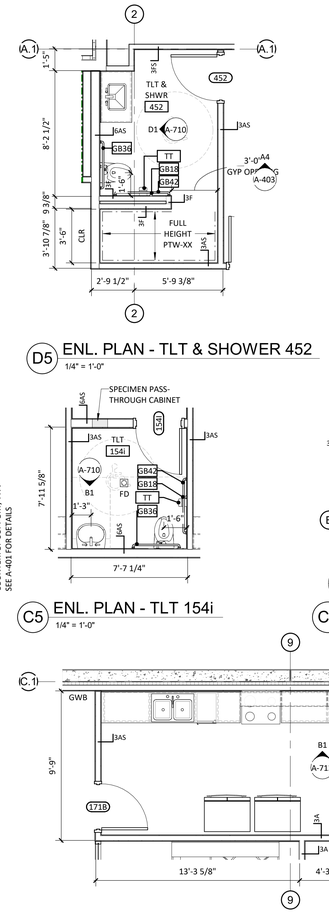


C2 ENL. PLAN - MEN'S TLT 128 & WOMEN'S TLT 130
1/4" = 1'-0"

B2 ENL. PLAN - TLT 149, 150, 236, 237, 336, 337, 436, 437
1/4" = 1'-0"



B4 ENL. PLAN - EOC GROUP TLTS
1/4" = 1'-0"



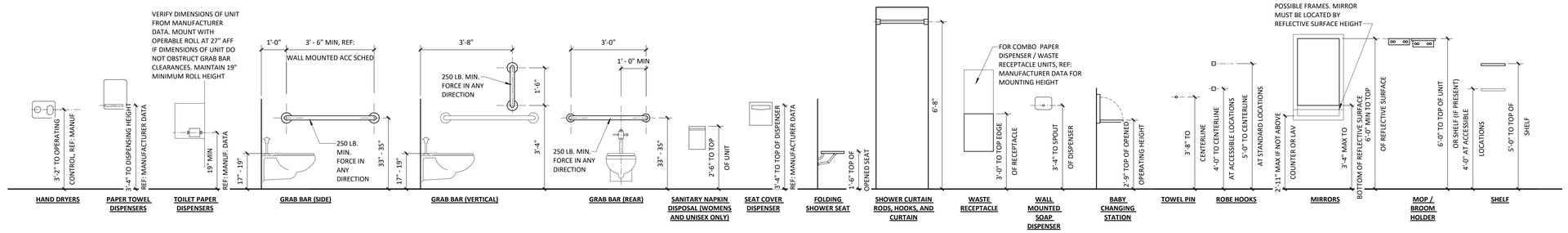
D5 ENL. PLAN - TLT & SHOWER 452
1/4" = 1'-0"

C5 ENL. PLAN - TLT 154i
1/4" = 1'-0"

C6 ENL. PLAN - TLT 156
1/4" = 1'-0"

B5 ENL. PLAN - CALL CENTER KITCHEN 171
1/4" = 1'-0"

TYPICAL MOUNTING HEIGHTS



SEE SPECS FOR TOILET ACCESSORIES INFORMATION

REF: SPECIFICATIONS AND MILLWORK DETAILS FOR POSSIBLE FRAMES. MIRROR MUST BE LOCATED BY REFLECTIVE SURFACE HEIGHT

CAPE FEAR FD STONEWATER

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101 NORTH THIRD STREET, SUITE 500
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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	TI- DESIGN DEVELOPMENT
B	2020.11.20	TI GMP SET
C	2020.12.16	GMP SET

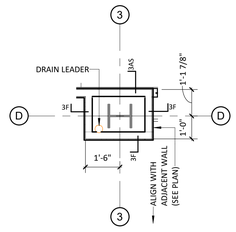
SHEET NAME:
ENLARGED PLANS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

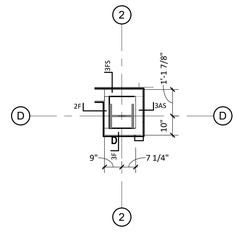
SHEET:
A-401

GMP SET

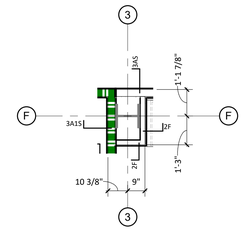
12/16/2020 9:54:49 AM



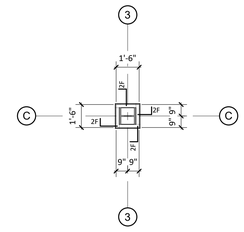
E1 LVL 01-B COL DTL 01
3/8" = 1'-0"



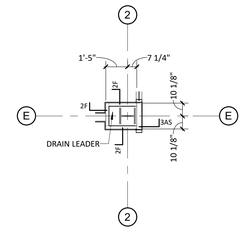
E2 LVL 01-B COL DTL 02
3/8" = 1'-0"



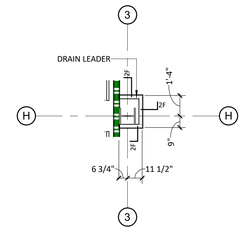
E3 LVL 01-B COL DTL 03
3/8" = 1'-0"



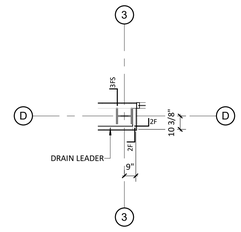
E4 TYPICAL COLUMN DTL
1/4" = 1'-0"



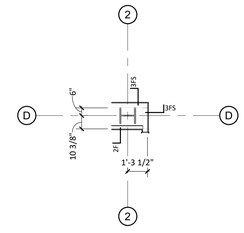
E5 LVL 01-B COL DTL 05
1/4" = 1'-0"



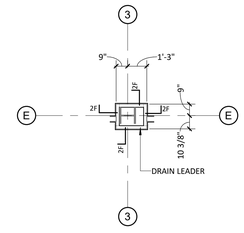
E6 LVL 01-B COL DTL 06
1/4" = 1'-0"



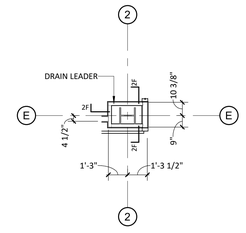
E7 LVL 02-B COL DTL 07
1/4" = 1'-0"



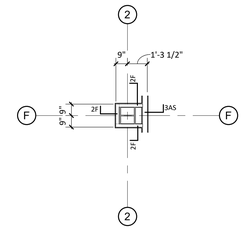
D3 LVL 02-B COL DTL 08
1/4" = 1'-0"



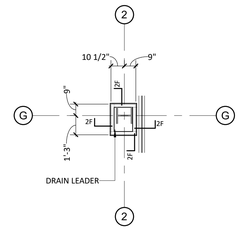
D4 LVL 02-B COL DTL 09
1/4" = 1'-0"



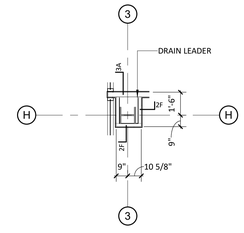
D5 LVL 02-B COL DTL 10
1/4" = 1'-0"



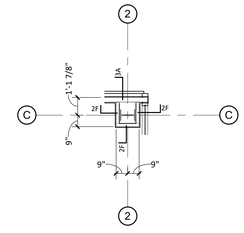
D6 LVL 02-B COL DTL 11
1/4" = 1'-0"



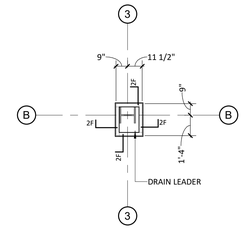
D7 LVL 02-B COL DTL 12
1/4" = 1'-0"



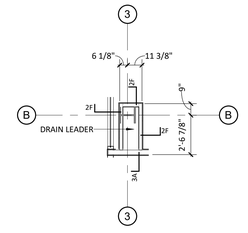
C3 LVL 02-B COL DTL 13
1/4" = 1'-0"



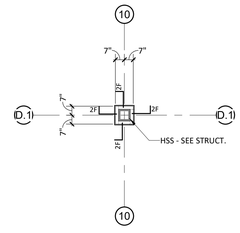
C4 LVL 04-A COL DTL 14
1/4" = 1'-0"



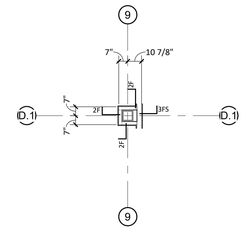
C5 LVL 01-A COL DTL 15
1/4" = 1'-0"



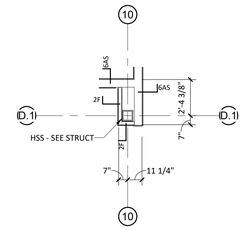
C6 LVL 02-A COL DTL 16
1/4" = 1'-0"



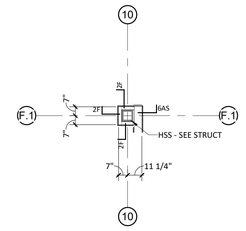
C7 LVL 01-C COL DTL 17
1/4" = 1'-0"



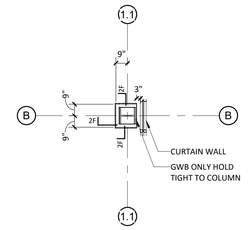
B3 LVL 01-C COL DTL 18
1/4" = 1'-0"



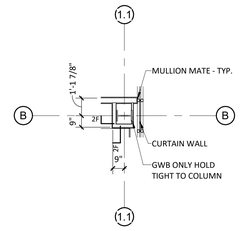
B4 LVL 02-C COL DTL 19
1/4" = 1'-0"



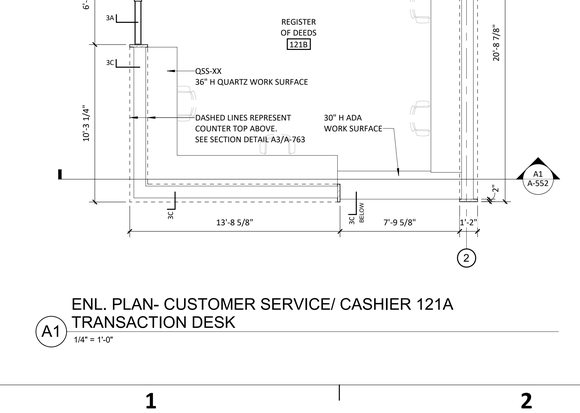
B5 LVL 02-C COL DTL 20
1/4" = 1'-0"



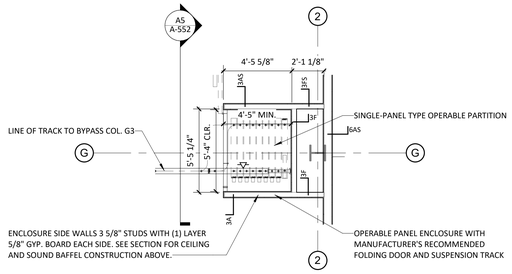
B6 LVL 03-A COL DTL 21
1/4" = 1'-0"



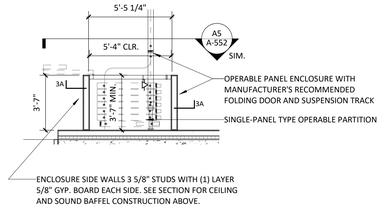
B7 LVL 04-A COL DTL 22
1/4" = 1'-0"



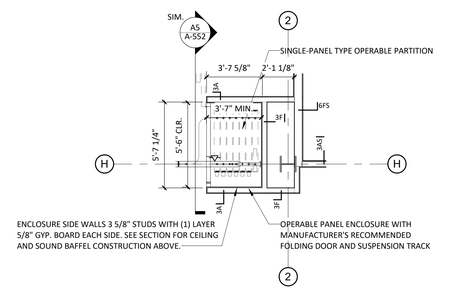
A1 ENL. PLAN- CUSTOMER SERVICE/ CASHIER 121A TRANSACTION DESK
1/4" = 1'-0"



A3 ENL. PLAN - OPERABLE PARTITION RM 136
1/4" = 1'-0"



A4 ENL. PLAN - OPERABLE PARTITION RM 139
1/4" = 1'-0"



A5 ENL. PLAN - OPERABLE PARTITION RM 137
1/4" = 1'-0"

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	TI- DESIGN DEVELOPMENT
B	2020.11.20	TI GMP SET
C	2020.12.16	GMP SET

SHEET NAME:
ENLARGED PLANS & COLUMN DETAILS

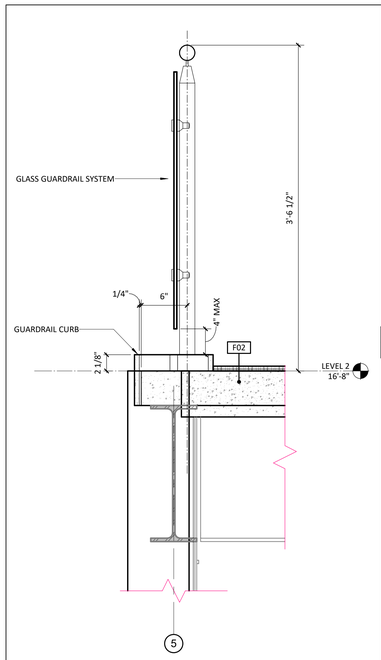
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-402

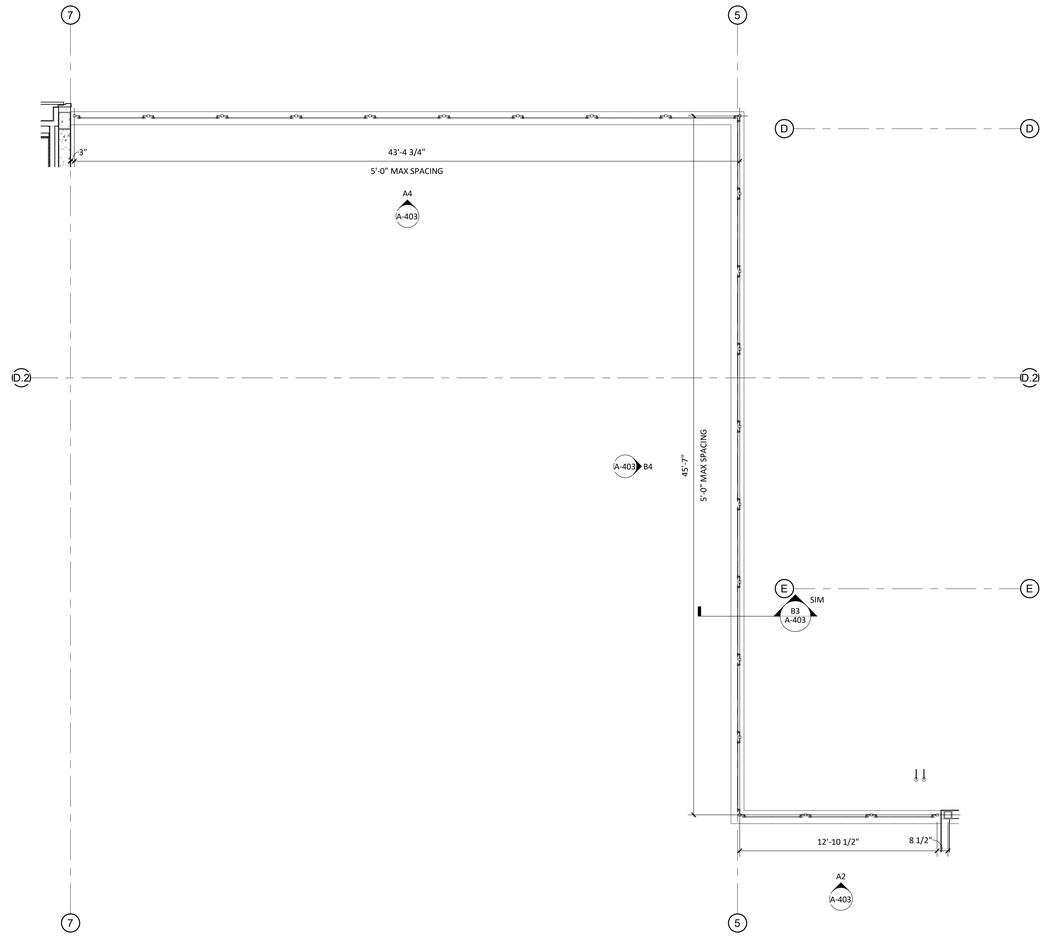
GMP SET

12/16/2020 9:55:09 AM

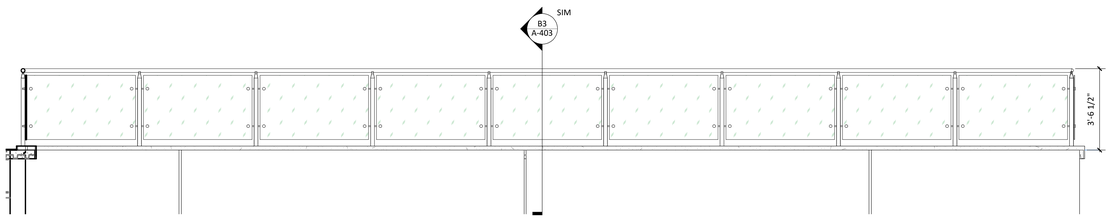
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



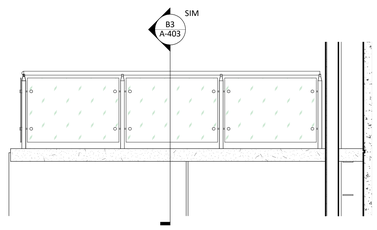
B3 / A-403	DETAIL - GUARDRAIL	1 1/2" = 1'-0"



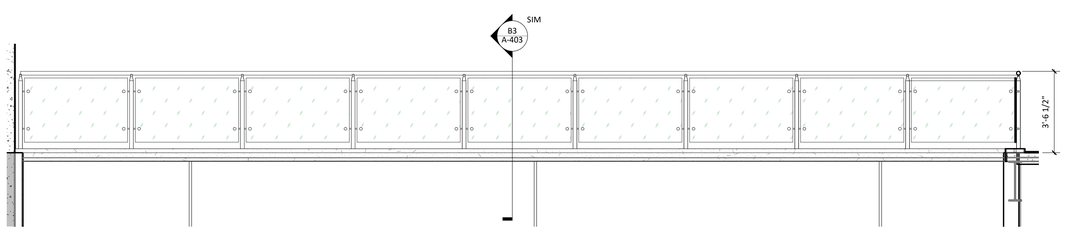
C4 / A-403	ENLARGED PLAN - HUB GUARDRAIL	1/4" = 1'-0"



B4 / A-403	PARTIAL ELEVATION - HUB GUARDRAIL - EAST	3/8" = 1'-0"



A2 / A-403	PARTIAL ELEVATION - HUB GUARDRAIL - SOUTH	3/8" = 1'-0"



A4 / A-403	PARTIAL ELEVATION - HUB GUARDRAIL - NORTH	3/8" = 1'-0"

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LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION
A	2020.10.16	CXS PERMIT SET
B	2020.12.16	GMP SET

SHEET NAME:
GUARDRAIL DETAILS
- HUB LEVEL 2

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-403

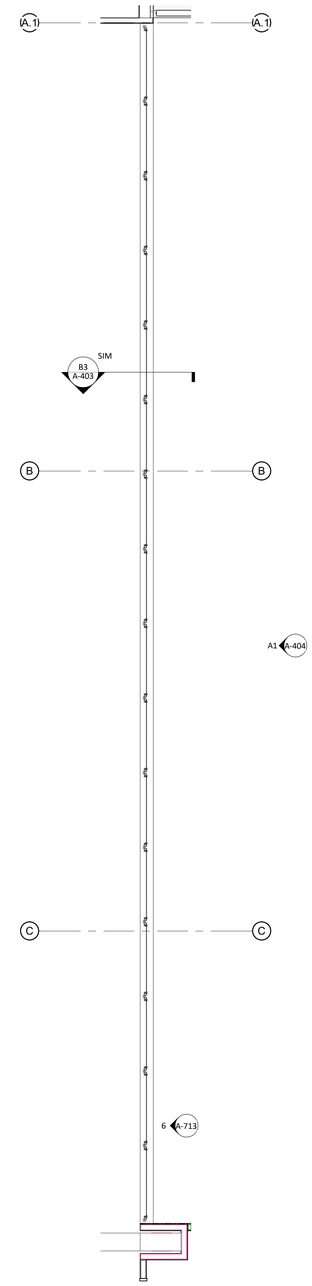
GMP SET

12/16/2020 9:55:16 AM

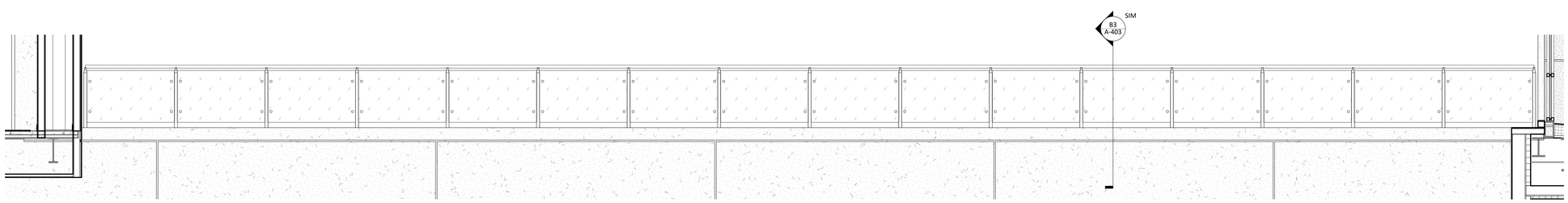
E D C B A

1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



B5 / A-404 **ENLARGED PLAN - LOBBY GUARDRAIL** — 1/4" = 1'-0"



A1 / A-404 **PARTIAL ELEVATION - LOBBY GUARDRAIL** — 3/8" = 1'-0"

12/16/2020 9:55:20 AM

1 2 3 4 5 6

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LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	CVS PERMIT SET
B	2020.12.16	GMP SET

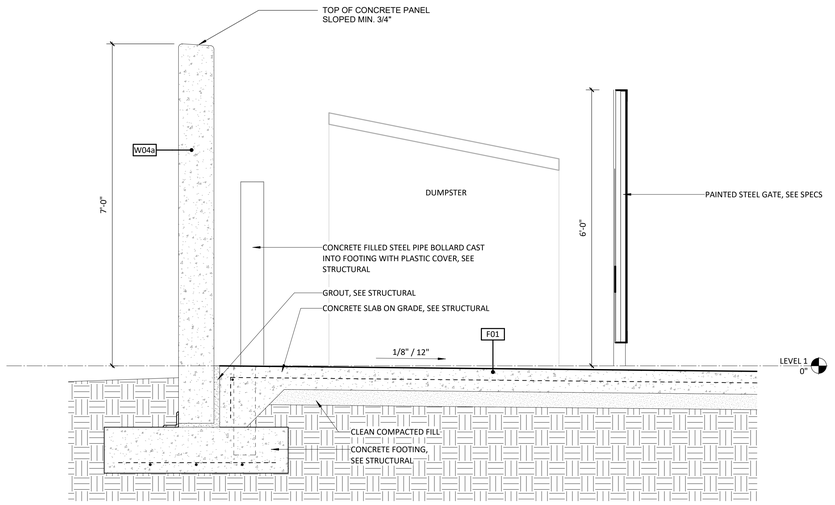
SHEET NAME:
GUARDRAIL DETAILS
- OFFICE LEVEL 2

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

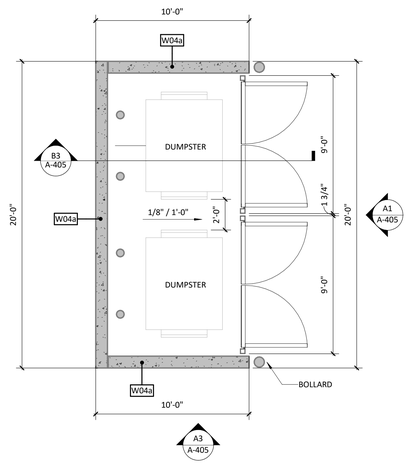
SHEET:
A-404

GMP SET

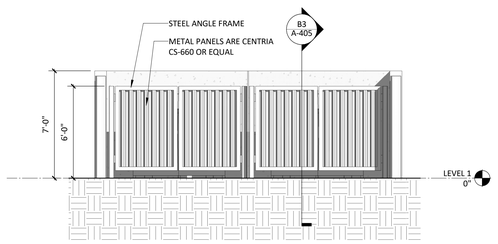
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



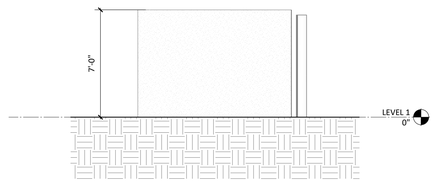
B3 / A-405	WALL SECTION - DUMPSTER	3/4" = 1'-0"



B1 / A-405	ENLARGED PLAN - DUMPSTER	1/4" = 1'-0"



A1 / A-405	ENLARGED ELEVATION - DUMPSTER FRONT	1/4" = 1'-0"



A3 / A-405	ENLARGED ELEVATION - DUMPSTER SIDE	1/4" = 1'-0"

12/16/2020 9:55:28 AM

1 2 3 4 5 6

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Δ	DATE	DESCRIPTION
A	2020.10.16	C+S PERMIT SET
B	2020.12.16	GMP SET

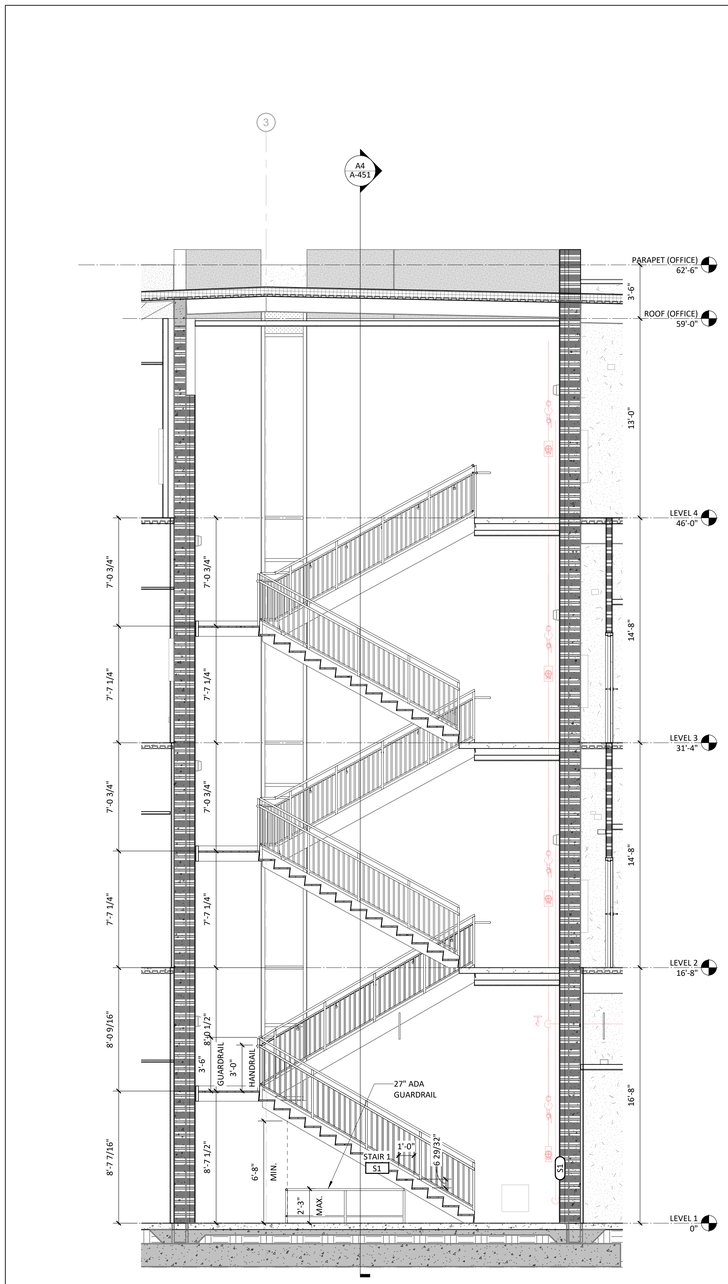
SHEET NAME:
DUMPSTER ENCLOSURE

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

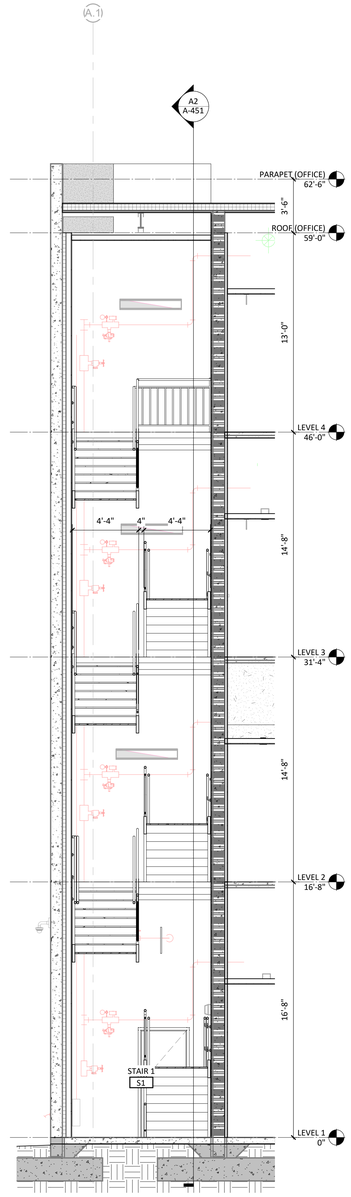
SHEET:
A-405

GMP SET

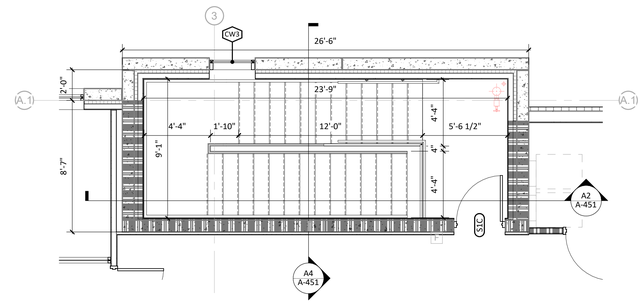
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



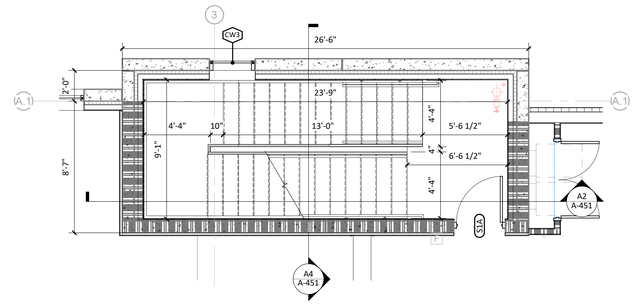
A2 A-451 — STAIR 1 SECTION - LONG — 1/4" = 1'-0"



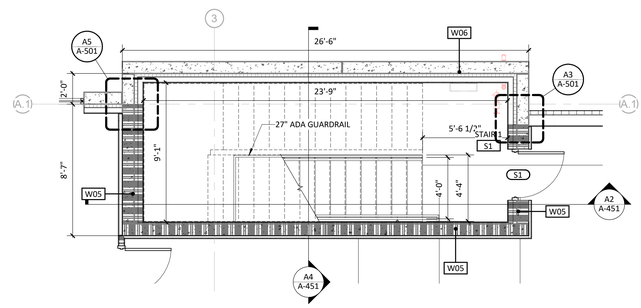
A4 A-451 — STAIR 1 SECT. - CROSS — 1/4" = 1'-0"



C2 A-451 — STAIR 1 PLAN - LEVEL 4 — 1/4" = 1'-0"



B2 A-451 — STAIR 1 PLAN - LEVEL 2&3 — 1/4" = 1'-0"



A5 A-451 — STAIR 1 PLAN - LEVEL 1 — 1/4" = 1'-0"

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LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
STAIR 1 - ENLARGED PLANS & SECTIONS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

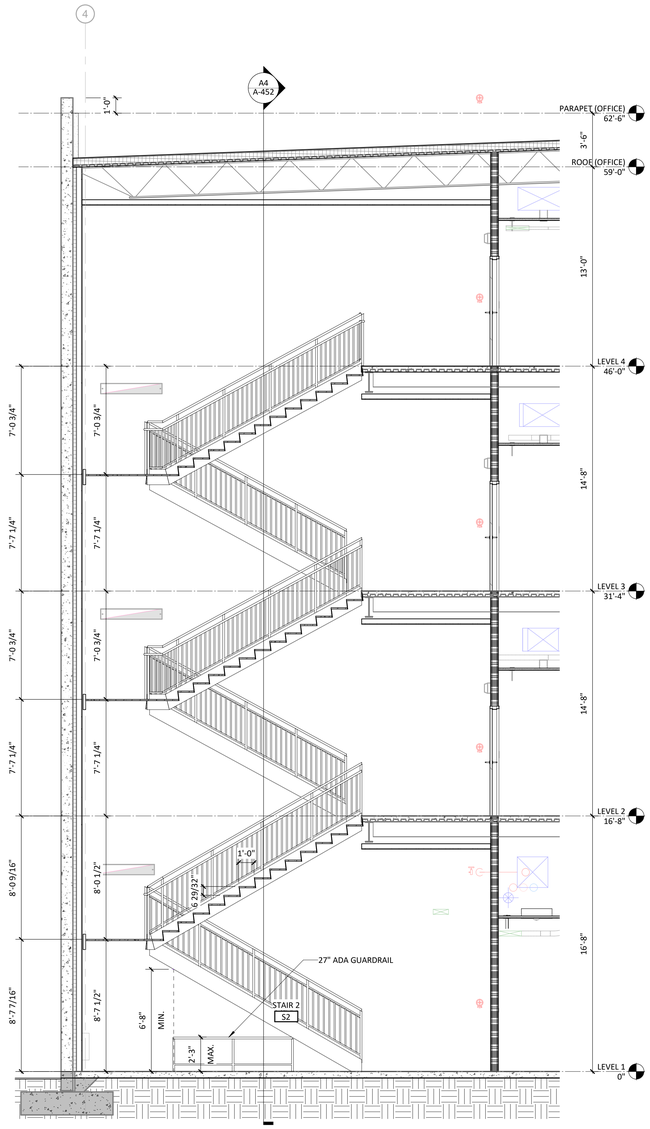
SHEET:
A-451

GMP SET

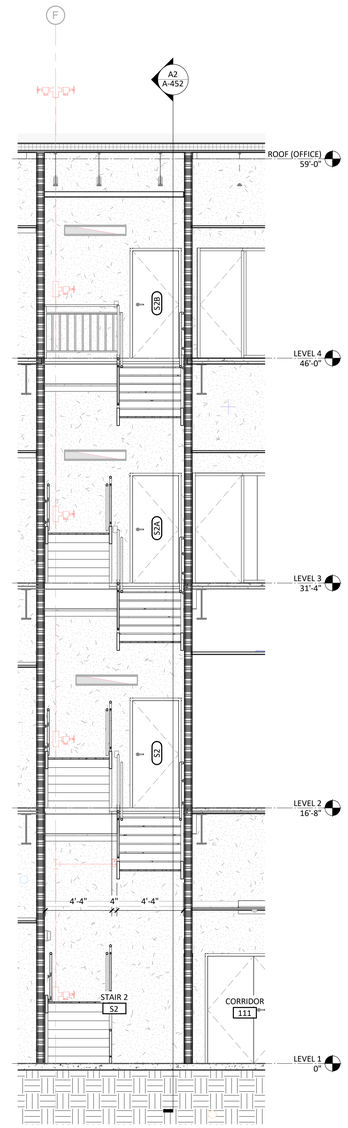
12/16/2020 9:55:38 AM

1 2 3 4 5 6

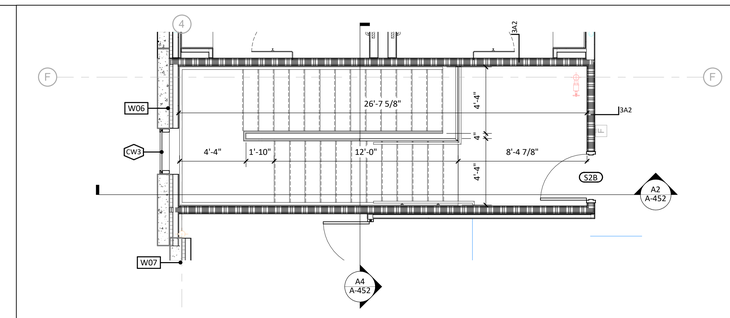
A B C D E



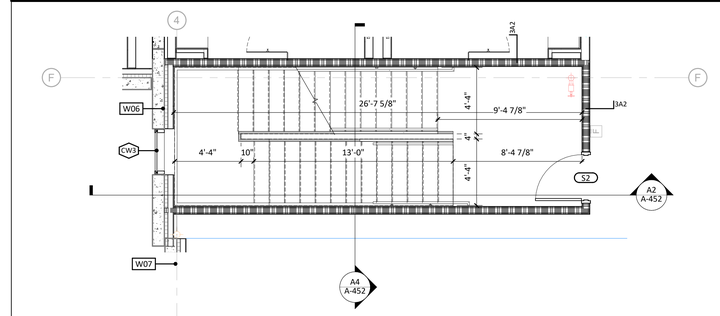
A2 / A-452	STAIR 2 SECTION - LONG	1/4" = 1'-0"



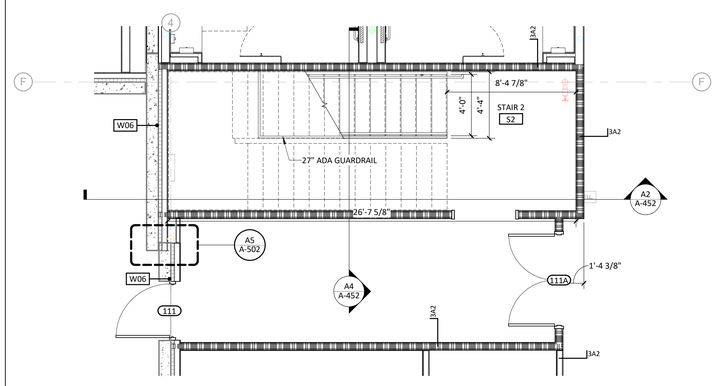
A4 / A-452	STAIR 2 SECT. - CROSS	1/4" = 1'-0"



C5 / A-452	STAIR 2 PLAN - LEVEL 4	1/4" = 1'-0"



B5 / A-452	STAIR 2 PLAN - LEVEL 2&3	1/4" = 1'-0"



A5 / A-452	STAIR 2 PLAN - LEVEL 1	1/4" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

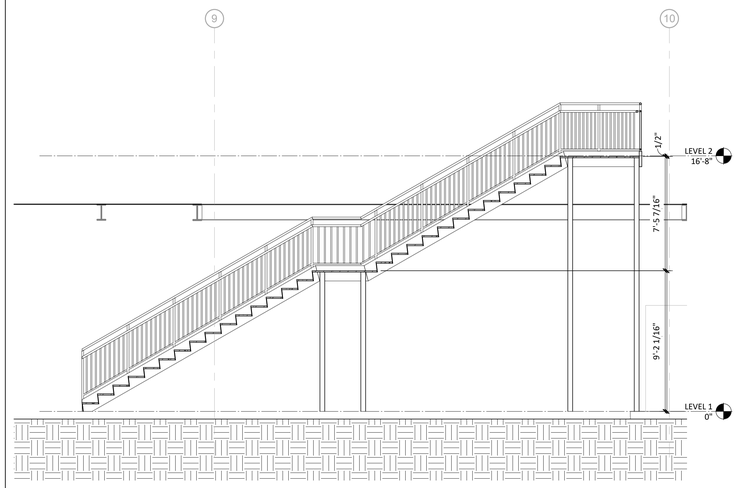
SHEET NAME:
STAIR 2 - ENLARGED PLANS & SECTIONS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

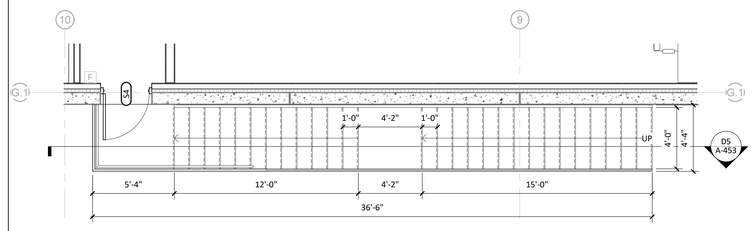
SHEET:
A-452

GMP SET

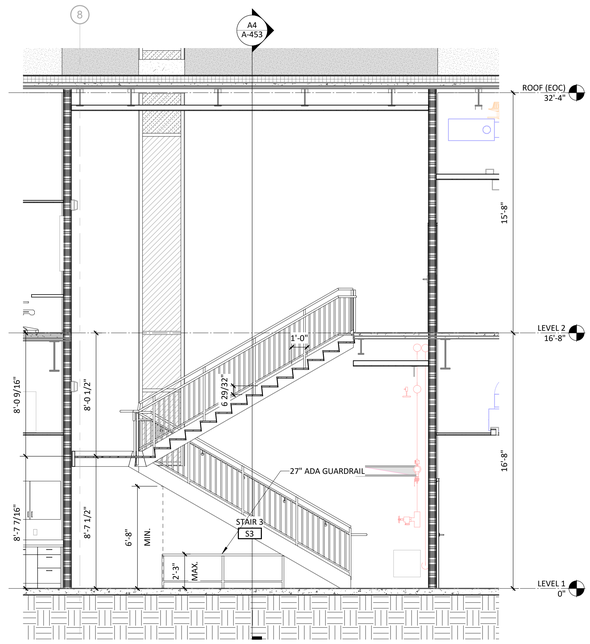
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



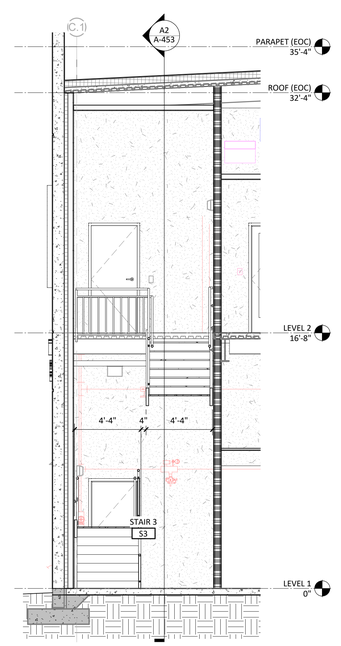
D5 / A-453	STAIR 4 SECTION	1/4" = 1'-0"



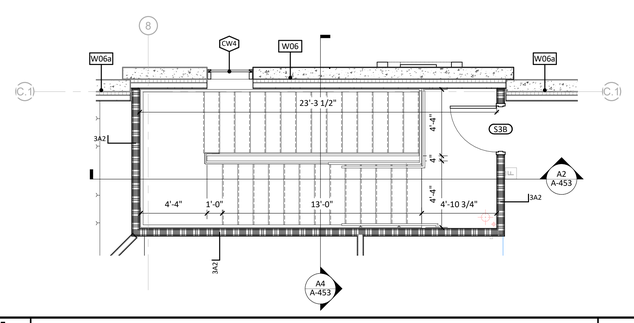
C5 / A-453	STAIR 4 PLAN - LEVEL 2	1/4" = 1'-0"



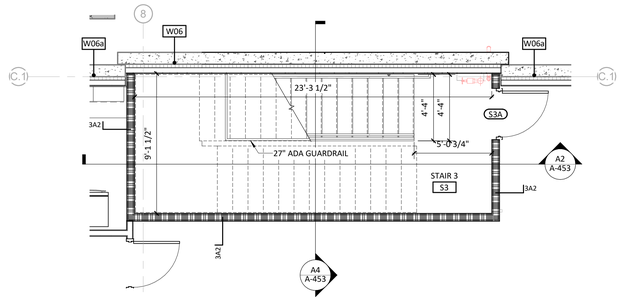
A2 / A-453	STAIR 3 SECTION - LONG	1/4" = 1'-0"



A4 / A-453	STAIR 3 SECT. - CROSS	1/4" = 1'-0"



B5 / A-453	STAIR 3 PLAN - LEVEL 2	1/4" = 1'-0"



A5 / A-453	STAIR 3 PLAN - LEVEL 1	1/4" = 1'-0"

12/16/2020 9:56:09 AM

1 2 3 4 5 6

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

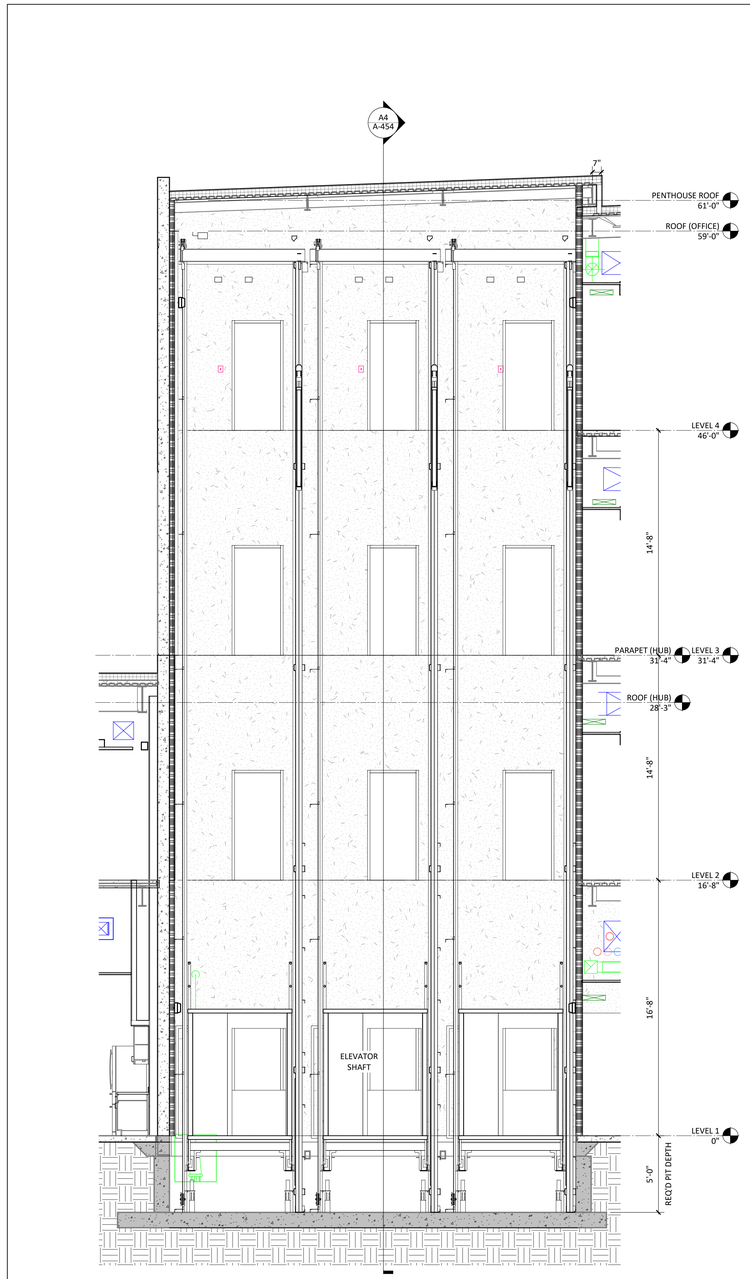
SHEET NAME:
STAIR 3&4 - ENLARGED PLANS & SECTIONS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

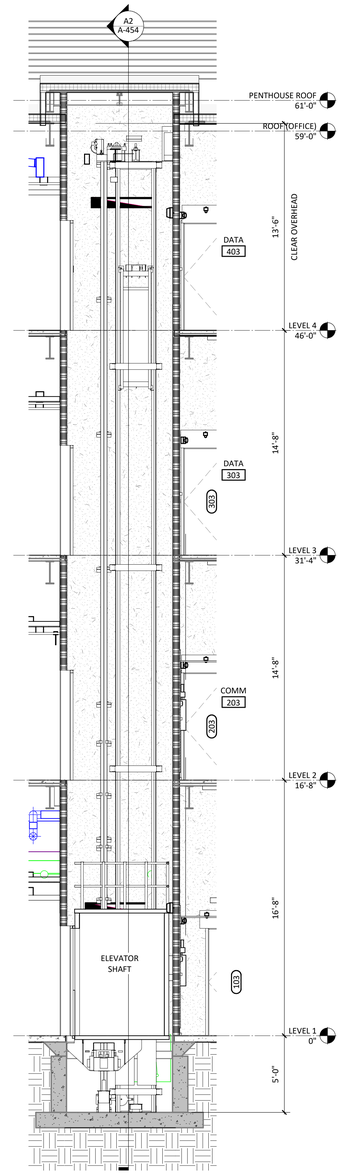
SHEET:
A-453

GMP SET

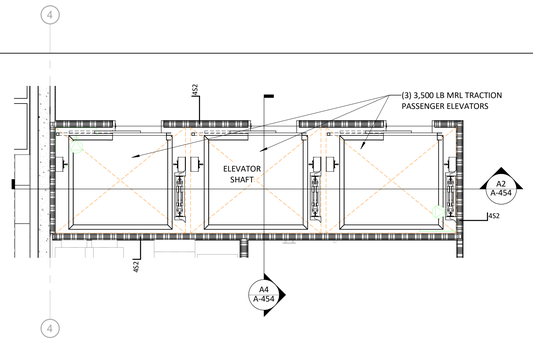
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



A2 A-454 ELEVATOR SECTION - LONG 1/4" = 1'-0"



A4 A-454 ELEV. SECTION - CROSS 1/4" = 1'-0"



A5 A-454 ENLARGED ELEAVTOR PLAN 1/4" = 1'-0"

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
ELEVATORS - ENLARGED PLAN & SECTION

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-454

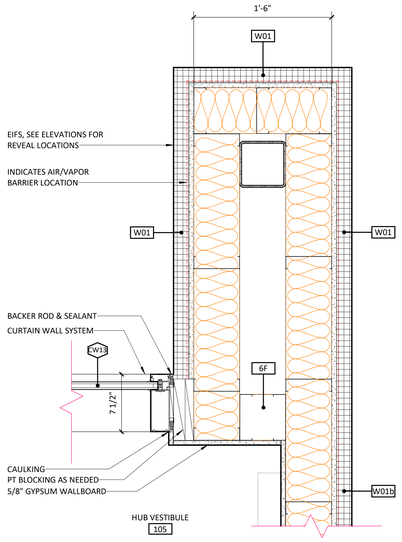
GMP SET

12/16/2020 9:56:33 AM

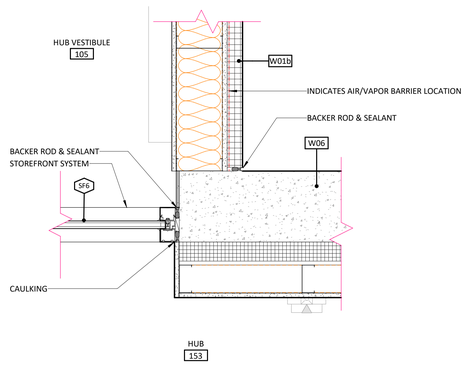
E D C B A

1 2 3 4 5 6

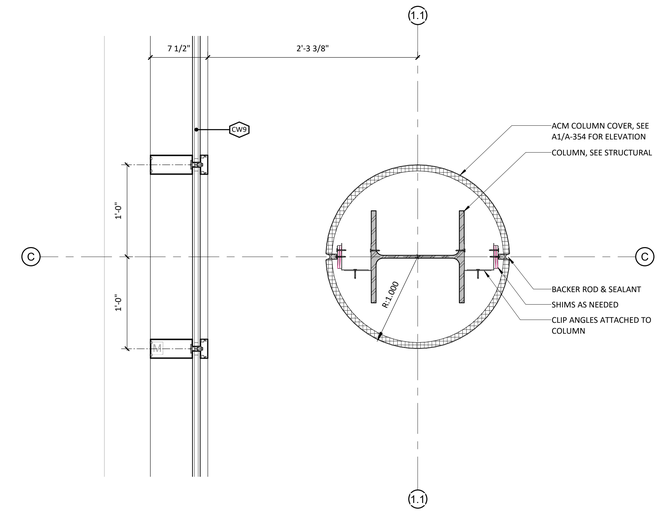
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



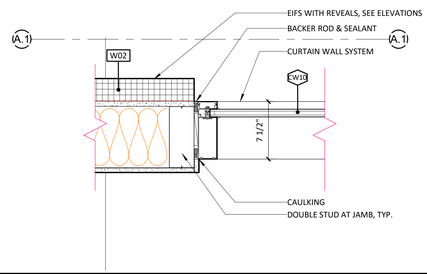
B1 / A-501 **PLAN DETAIL - BUMPOUT @ HUB** 1 1/2" = 1'-0"



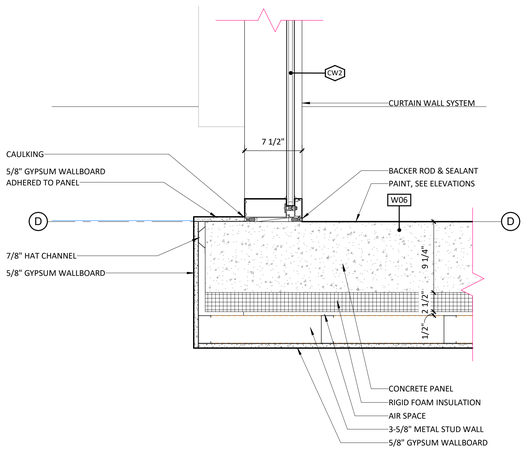
B3 / A-501 **PLAN DETAIL - HUB VESTIBULE** 1 1/2" = 1'-0"



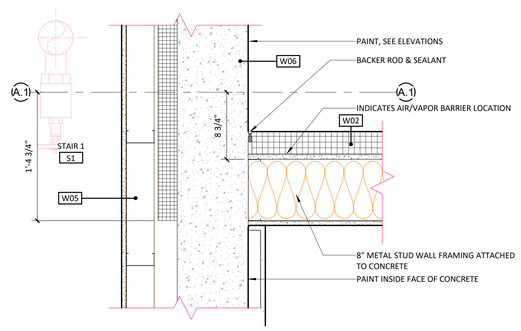
C3 / A-501 **PLAN DETAIL - COLUMN COVER** 1 1/2" = 1'-0"



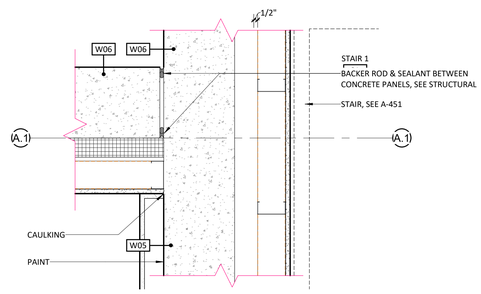
B5 / A-501 **PLAN DETAIL - CURTAIN WALL JAMB** 1 1/2" = 1'-0"



A1 / A-501 **PLAN DETAIL - TILT-UP TO CURTAIN WALL** 1 1/2" = 1'-0"



A3 / A-501 **PLAN DETAIL - STAIR 1 EAST** 1 1/2" = 1'-0"



A5 / A-501 **PLAN DETAIL - STAIR 1 WEST** 1 1/2" = 1'-0"

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	C+S PERMIT SET
B	2020.12.16	GMP SET

SHEET NAME:
PLAN DETAILS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-501

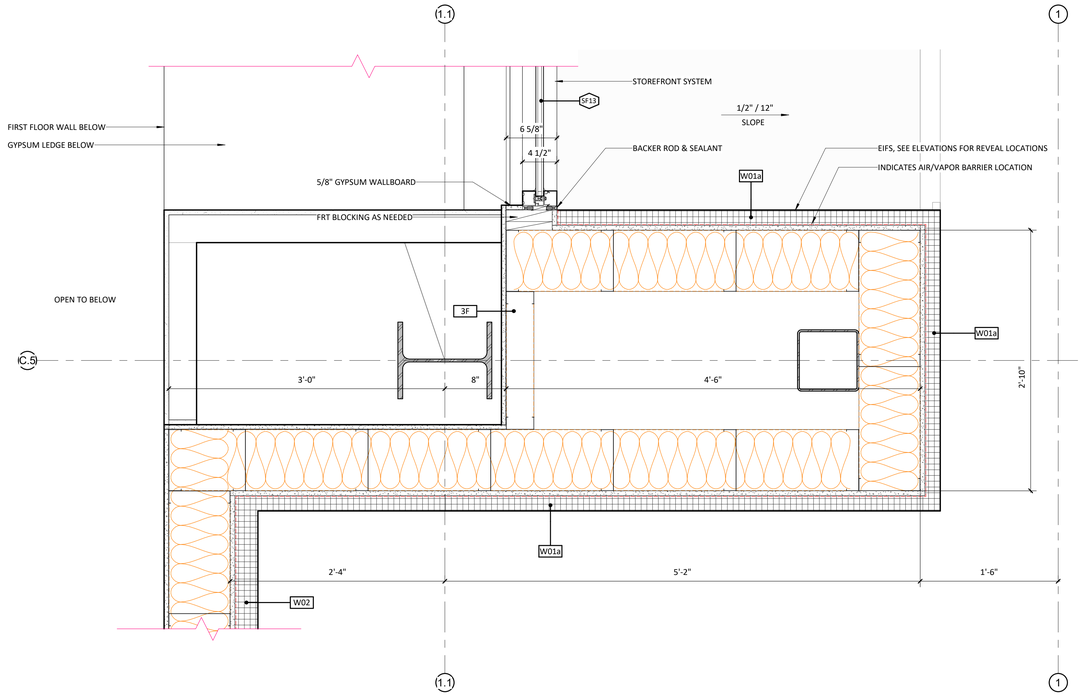
GMP SET

12/16/2020 9:56:44 AM

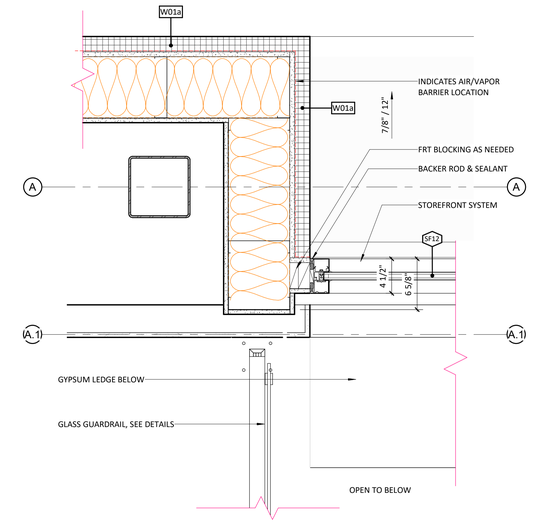
E D C B A

1 2 3 4 5 6

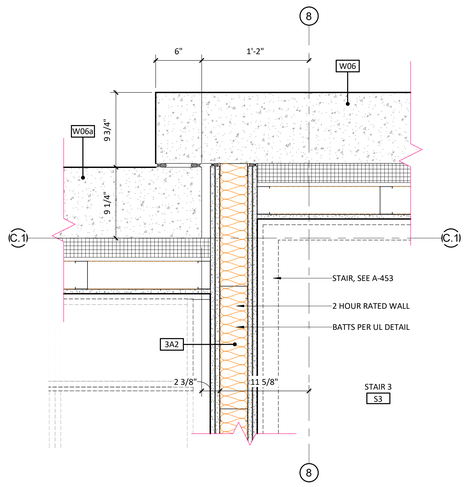
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



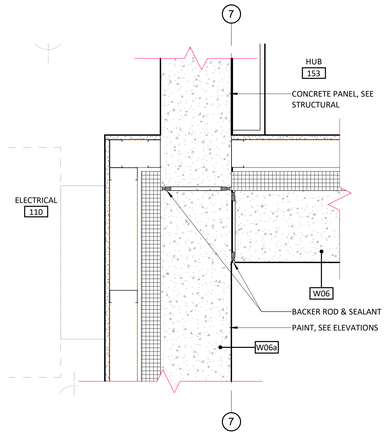
B1 / A-502 **PLAN DETAIL - LEVEL 2 BUMPOUT** 1 1/2" = 1'-0"



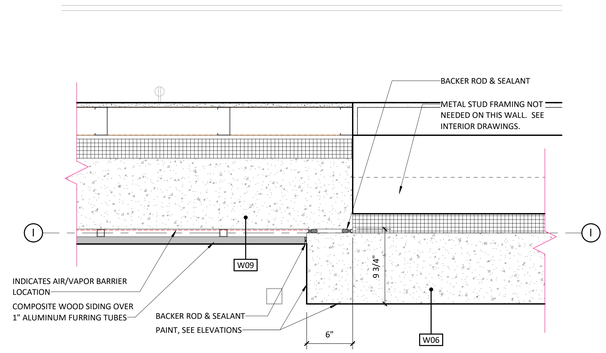
B5 / A-502 **PLAN DETAIL - LEVEL 2 @ BALCONY** 1 1/2" = 1'-0"



A1 / A-502 **PLAN DETAIL - STAIR 3 WEST** 1 1/2" = 1'-0"



A3 / A-502 **PLAN DETAIL - EOC & HUB** 1 1/2" = 1'-0"



A5 / A-502 **PLAN DETAIL - WOOD ON TILT-UP SOUTH** 1 1/2" = 1'-0"

1 2 3 4 5 6

12/16/2020 9:56:52 AM

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LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION
A	2020.10.16	CXS PERMIT SET
B	2020.12.16	GMP SET

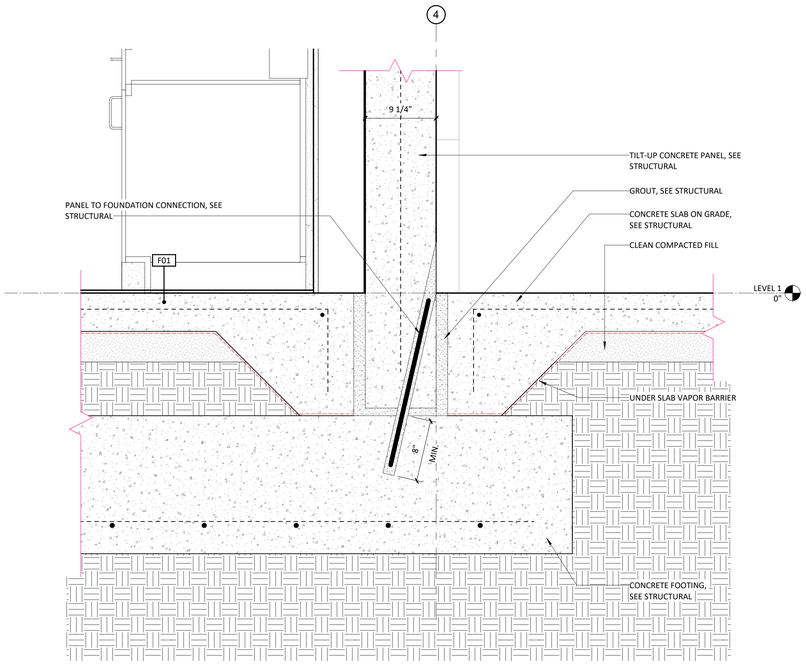
SHEET NAME:
PLAN DETAILS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

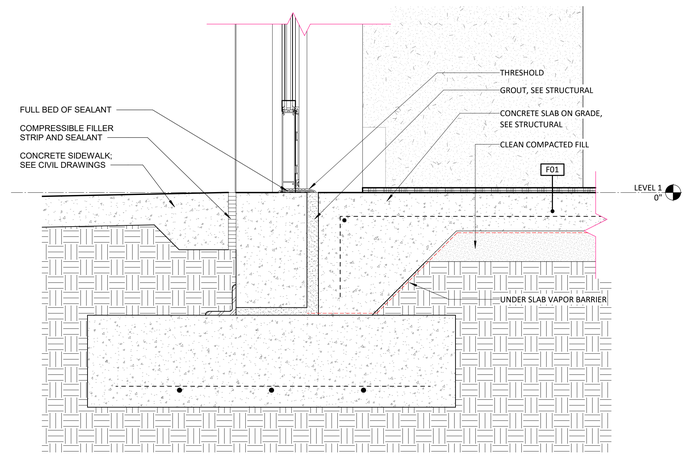
SHEET:
A-502

GMP SET

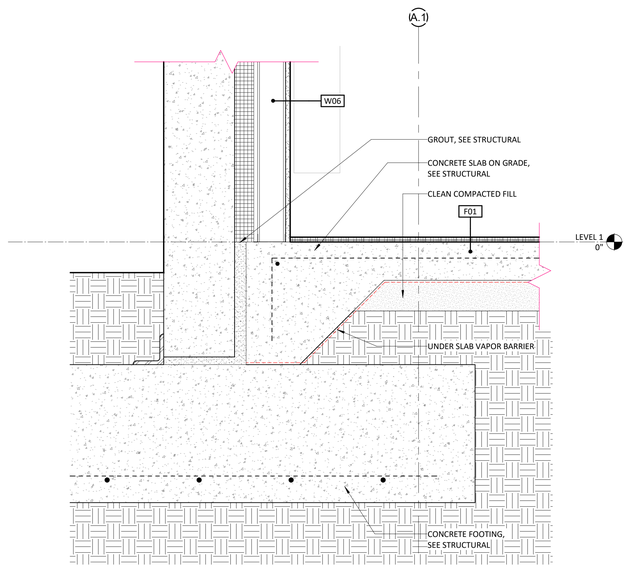
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



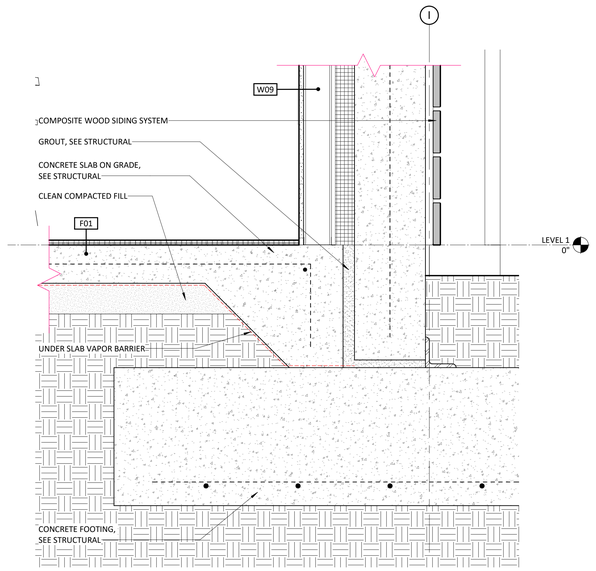
B1 / A-511 SECTION DETAIL - FOUNDATION @ TILT-UP WALL BETWEEN BUILDINGS 1 1/2" = 1'-0"



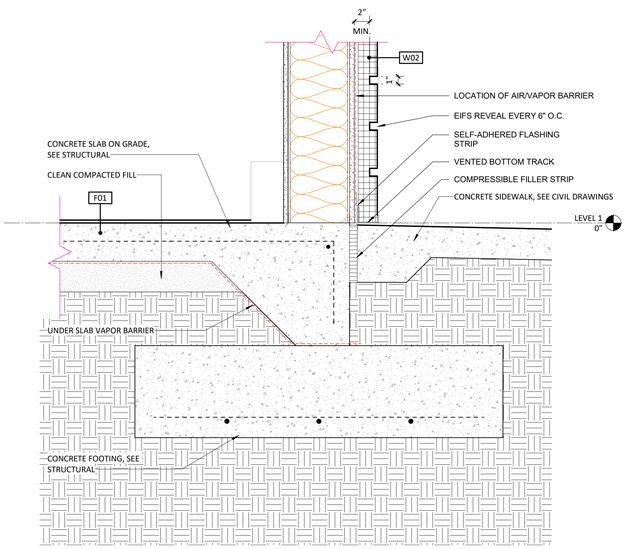
B5 / A-511 SECTION DETAIL - DOOR THRESHOLD @ TILT-UP FOUNDATION 1 1/2" = 1'-0"



A1 / A-511 SECTION DETAIL - FOUNDATION @ TILT-UP 1 1/2" = 1'-0"



A3 / A-511 SECTION DETAIL - FOUNDATION @ COMPOSITE WOOD 1 1/2" = 1'-0"



A5 / A-511 SECTION DETAIL - FOUNDATION @ EIFS 1 1/2" = 1'-0"

12/16/2020 9:57:00 AM

1 2 3 4 5 6

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LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	C+S PERMIT SET
B	2020.12.16	GMP SET

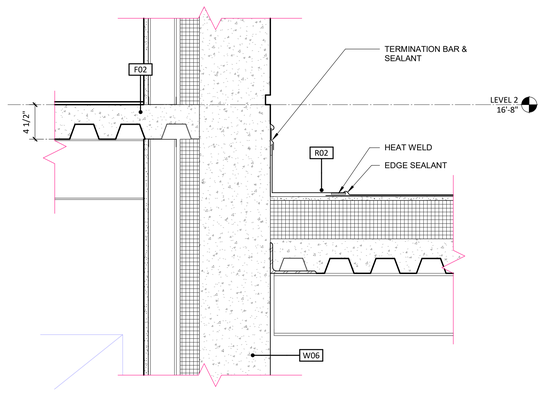
SHEET NAME: SECTION DETAILS - FOUNDATION

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

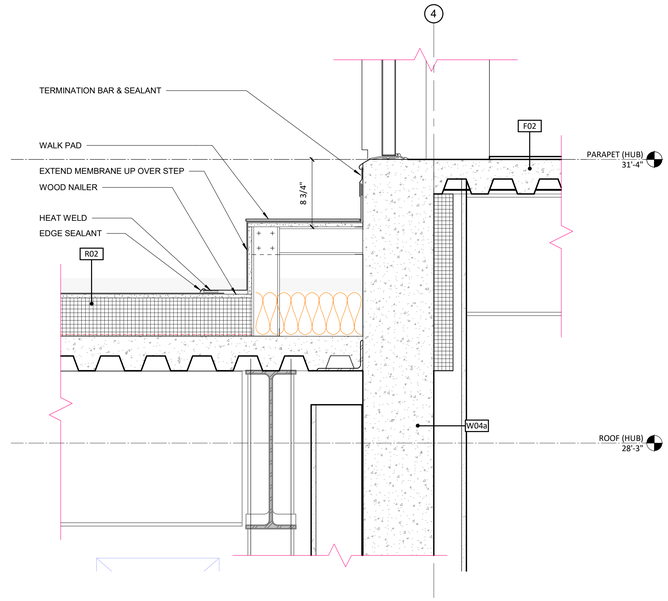
SHEET: A-511

GMP SET

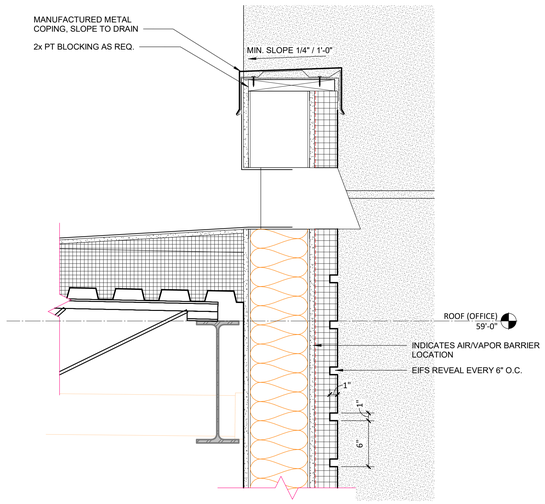
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



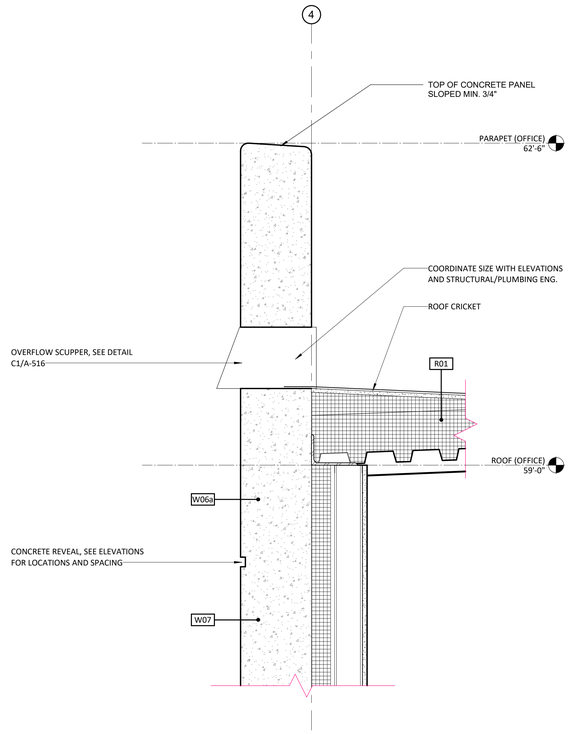
C1 / A-512	SECTION DETAIL - HUB VESTIBULE ROOF	1 1/2" = 1'-0"



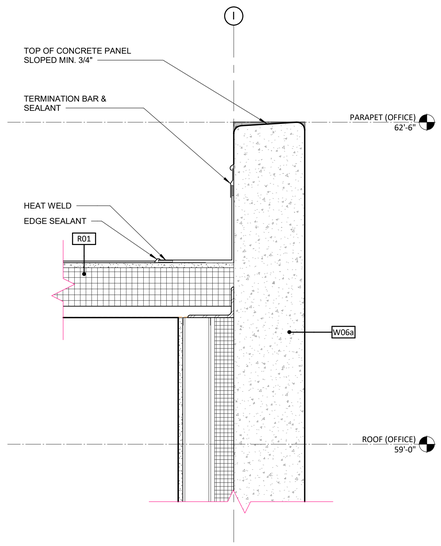
B3 / A-512	SECTION DETAIL - ROOF TO TILT-UP	1 1/2" = 1'-0"



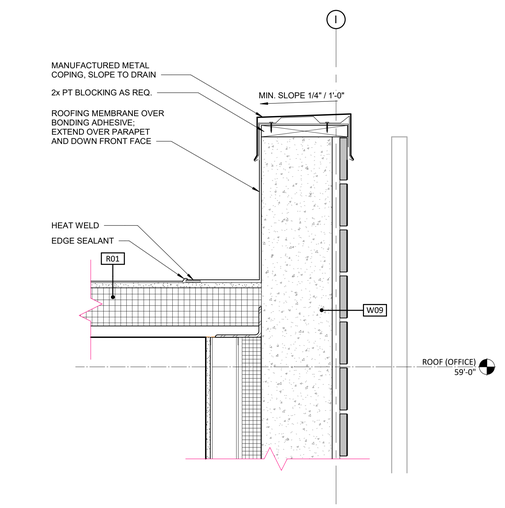
B5 / A-512	SECTION DETAIL - PARAPET & SCUPPER @ EIFS	1 1/2" = 1'-0"



A1 / A-512	SECTION DETAIL - PARAPET @ TILT-UP W/ OVERFLOW SCUPPER	1 1/2" = 1'-0"



A3 / A-512	SECTION DETAIL - PARAPET @ TILT-UP	1 1/2" = 1'-0"



A5 / A-512	SECTION DETAIL - PARAPET @ COMPOSITE WOOD	1 1/2" = 1'-0"

12/16/2020 9:57:09 AM

1 2 3 4 5 6

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	C+S PERMIT SET
B	2020.12.16	GMP SET

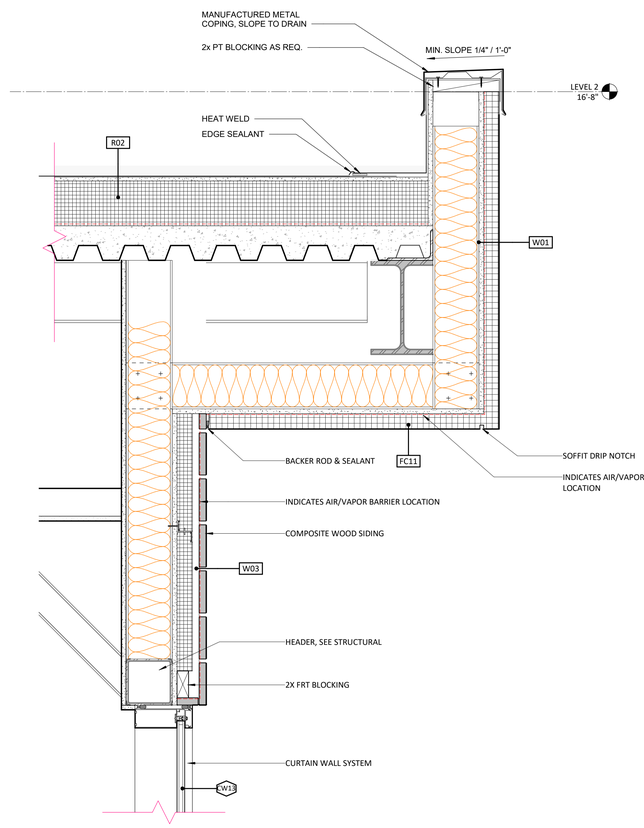
SHEET NAME:
SECTION DETAILS - TOP OF WALL/ROOF

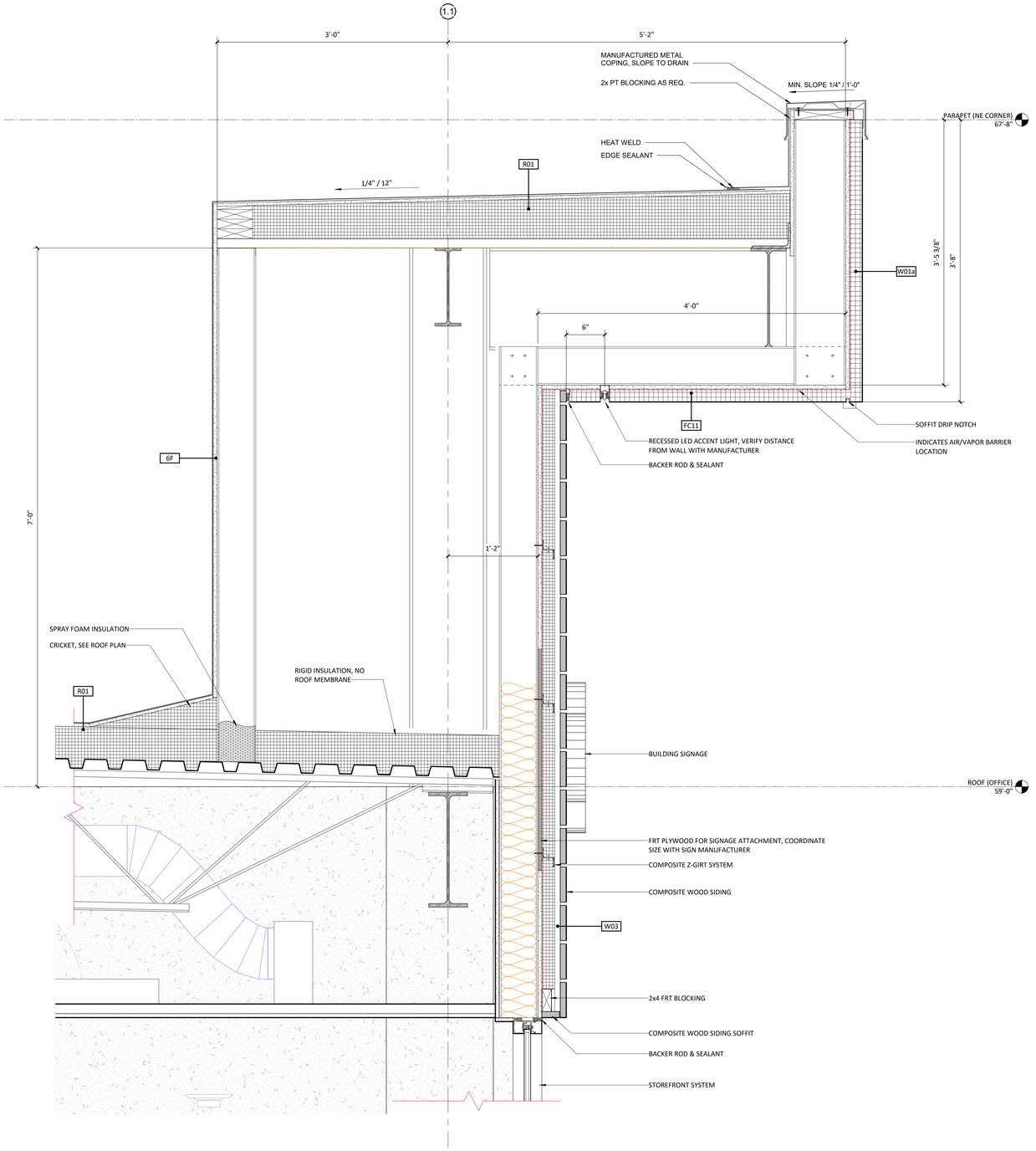
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-512

GMP SET







A1 A-513	SECTION DETAIL - HUB VESTIBULE	1 1/2" = 1'-0"	A3 A-513	SECTION DETAIL - OFFICE BUMPOUT - UPPER	1 1/2" = 1'-0"

12/16/2020 9:57:14 AM

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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	C+S PERMIT SET
B	2020.12.16	GMP SET

SHEET NAME:
SECTION DETAILS - UPPER HUB & OFFICE

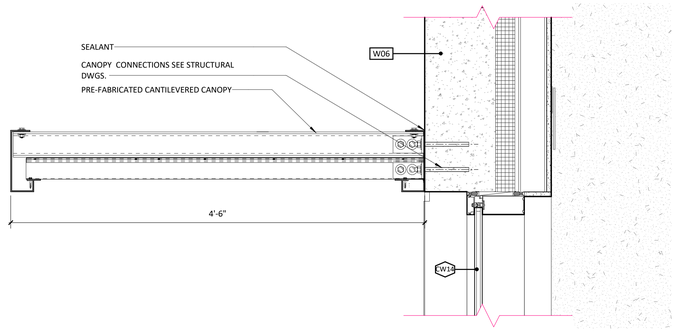
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-513

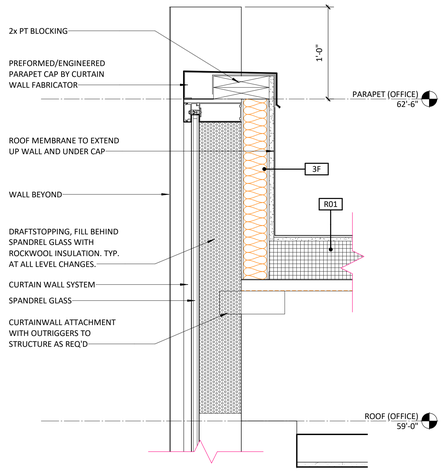
GMP SET

1 2 3 4 5 6

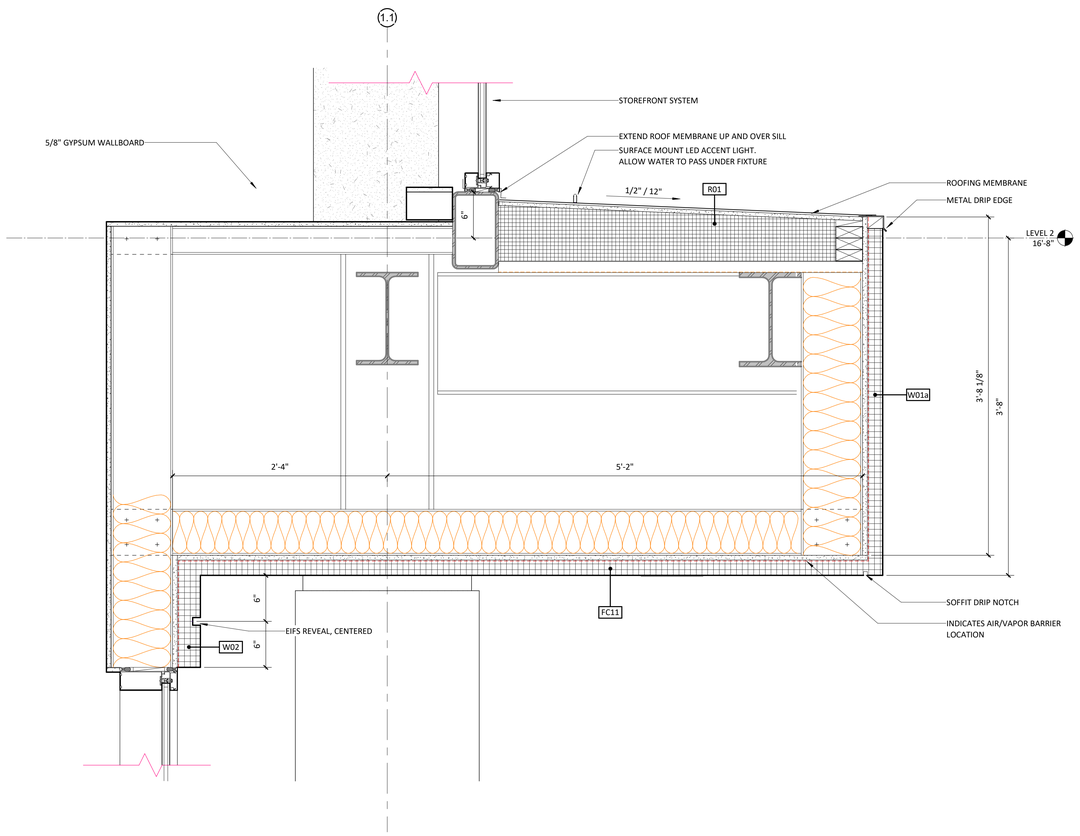
A B C D E



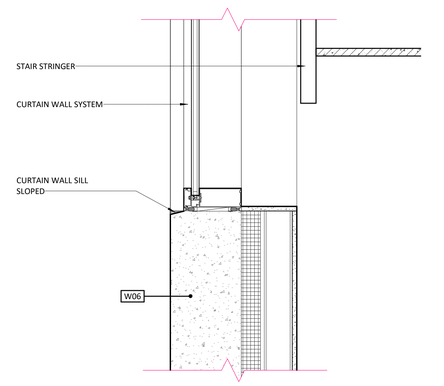
C1 A-514	SECTION DETAIL - PRE-FABRICATED CANOPY @ STOREFRONT HEAD	1 1/2" = 1'-0"



B5 A-514	SECTION DETAIL - CURTAIN WALL HEAD @ PARAPET	1 1/2" = 1'-0"



A1 A-514	SECTION DETAIL - OFFICE BUMPOUT - LOWER	1 1/2" = 1'-0"



A5 A-514	SECTION DETAIL - CURTAIN WALL SILL @ TILT-UP	1 1/2" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 9:57:21 AM

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 50417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	CXS PERMIT SET
B	2020.12.16	GMP SET

SHEET NAME:
SECTION DETAILS - LOWER OFFICE & CURTAIN WALL

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-514

GMP SET

1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

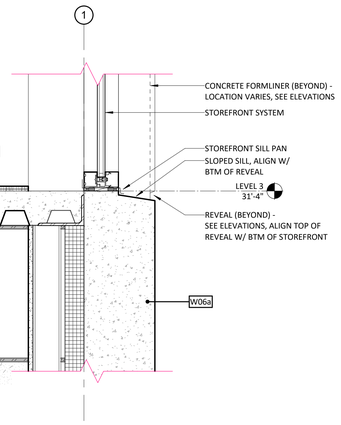
E

D

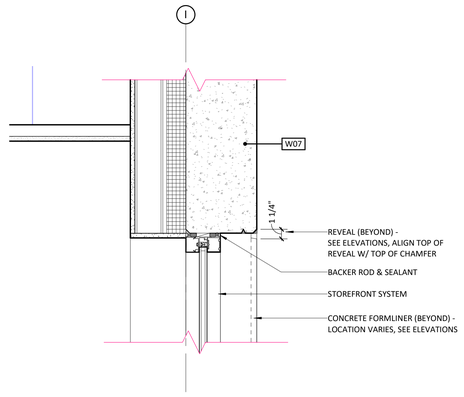
C

B

A

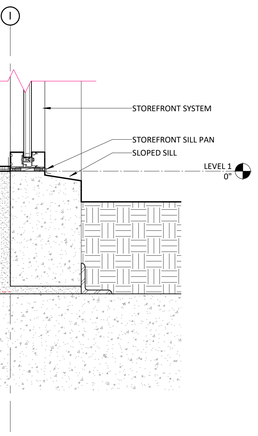


B1 A-515	SECTION DETAIL - STOREFRONT SILL @ FLOOR	1 1/2" = 1'-0"

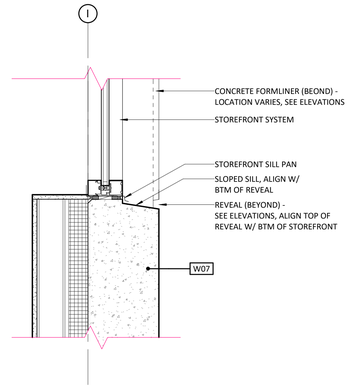


B3 A-515	SECTION DETAIL - STOREFRONT HEAD @ TILT-UP	1 1/2" = 1'-0"

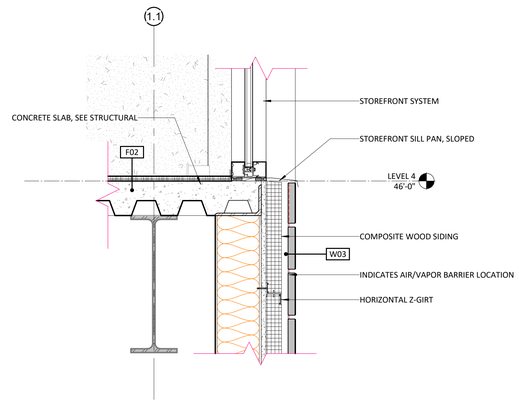
B5 A-515	SECTION DETAIL - STOREFRONT HEAD @ WOOD	1 1/2" = 1'-0"



A1 A-515	SECTION DETAIL - STOREFRONT SILL @ TILT-UP FOUNDATION	1 1/2" = 1'-0"



A3 A-515	SECTION DETAIL - STOREFRONT SILL @ TILT-UP	1 1/2" = 1'-0"



A5 A-515	SECTION DETAIL - STOREFRONT SILL ON FLOOR @ WOOD	1 1/2" = 1'-0"

1 2 3 4 5 6

12/16/2020 9:57:29 AM

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WILMINGTON, NORTH CAROLINA 28401
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WWW.LS3P.COM

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	C+S PERMIT SET
B	2020.12.16	GMP SET

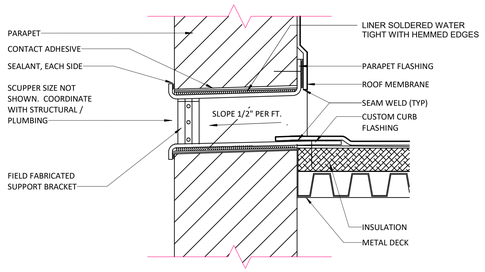
SHEET NAME:
SECTION DETAILS - STOREFRONT

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

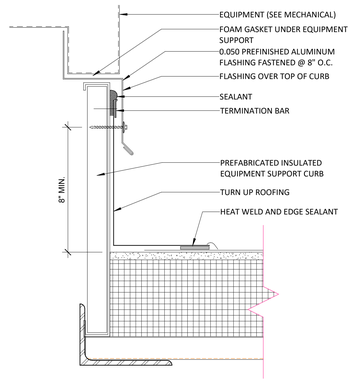
SHEET:
A-515

GMP SET

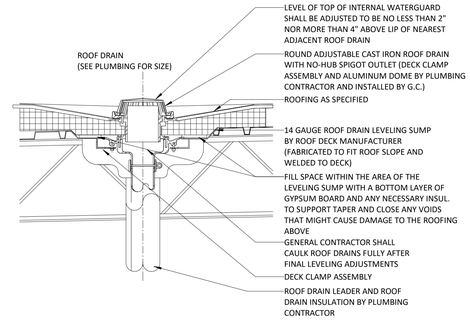
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



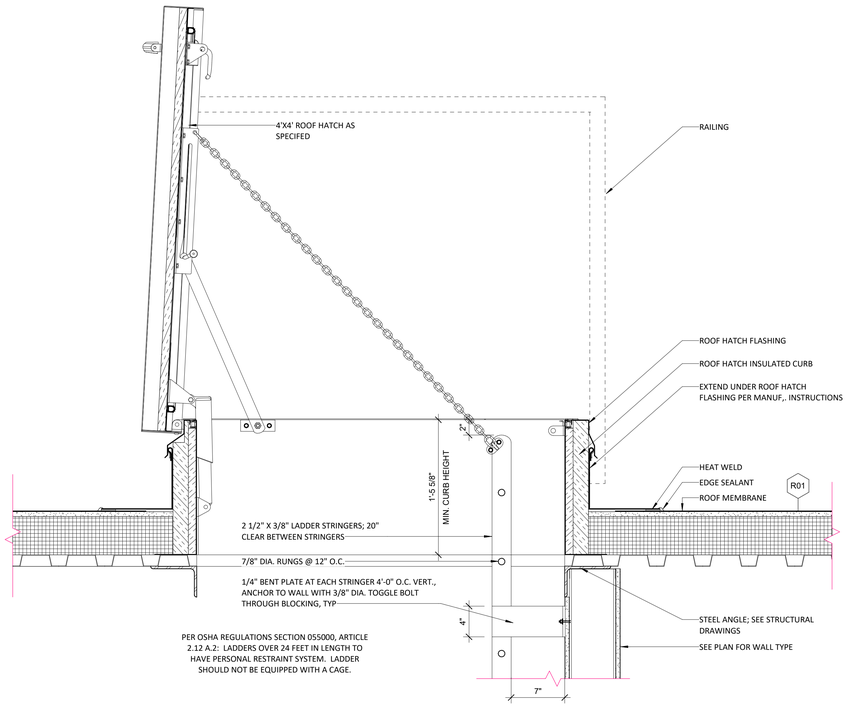
C1 / A-516	ROOF DETAIL - OVERFLOW SCUPPER	1 1/2" = 1'-0"



C3 / A-516	ROOF DETAIL - ROOF CURB	3" = 1'-0"



C5 / A-516	ROOF DETAIL - ROOF DRAIN OVERFLOW	1" = 1'-0"



A1 / A-516	ROOF DETAIL - ROOF HATCH & LADDER	1 1/2" = 1'-0"

12/16/2020 9:57:32 AM

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

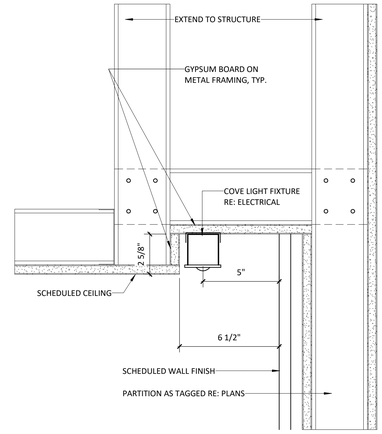
SHEET NAME:
ROOF DETAILS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

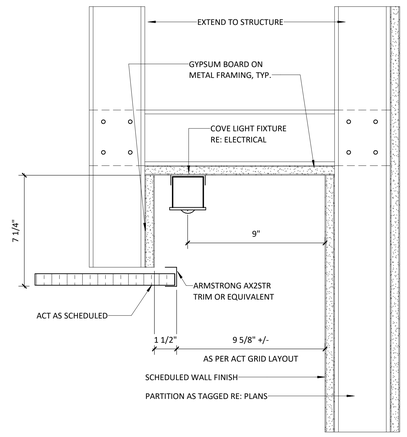
SHEET:
A-516

GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



B6 LIGHT COVE
3" = 1'-0"



A6 LIGHT COVE
3" = 1'-0"

12/16/2020 9:57:34 AM

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 00417 SCHEDULED RE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

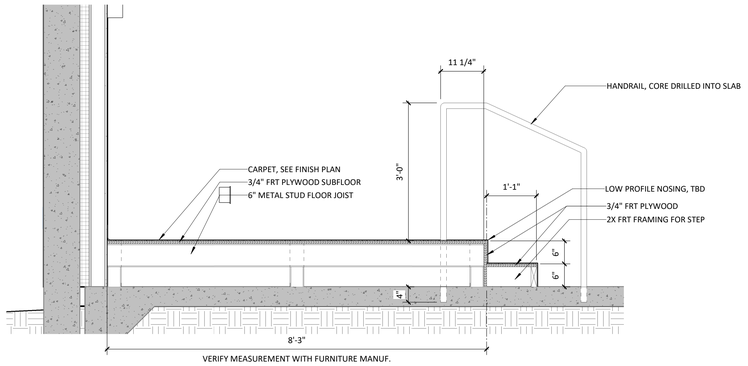
Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME:
INTERIOR CEILING DETAILS

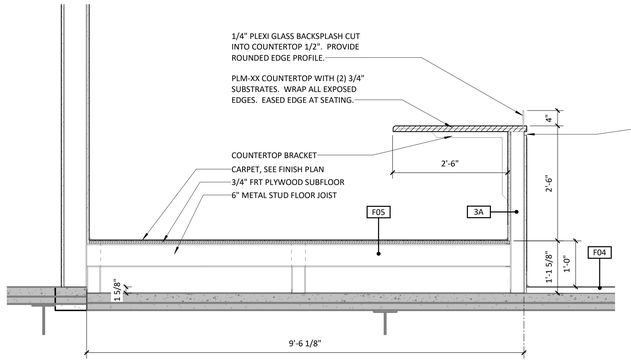
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-551

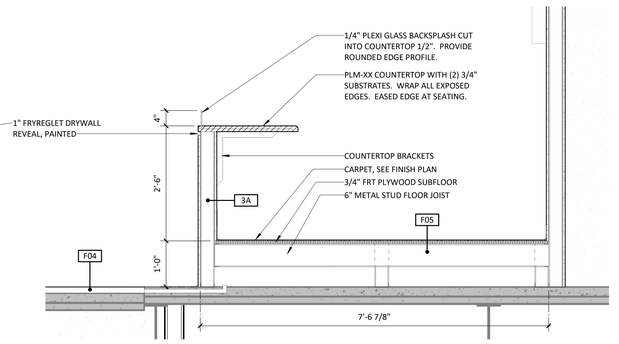
GMP SET



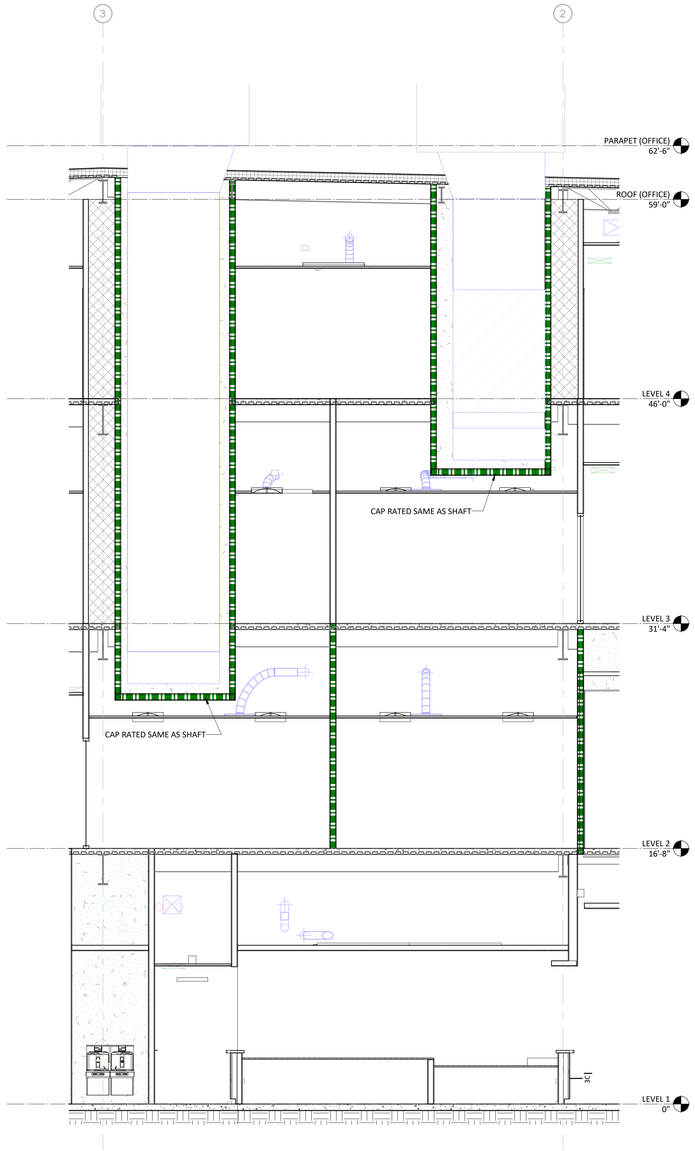
D1 911 CALL CENTER PLATFORM
3/4" = 1'-0"



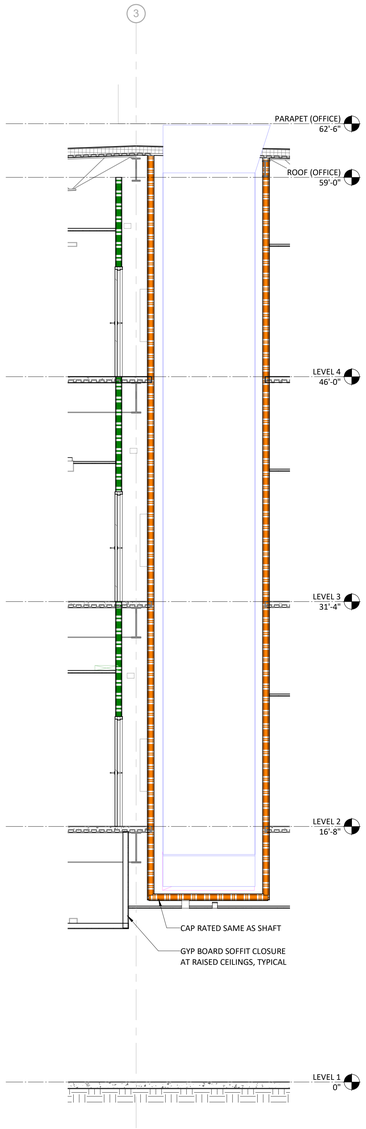
D3 EOC PLATFORM WEST
3/4" = 1'-0"



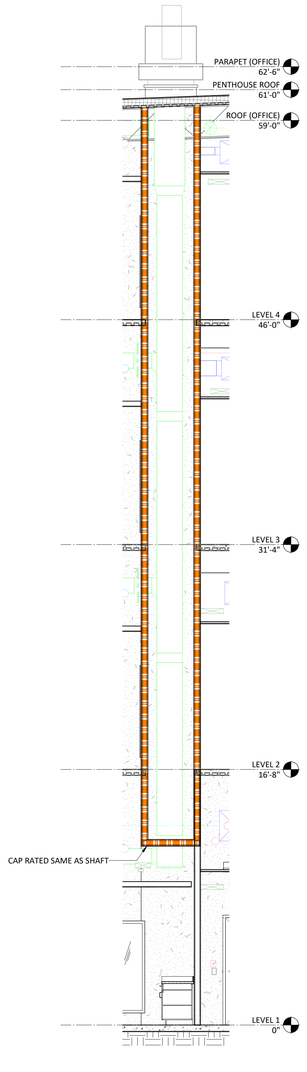
D5 EOC PLATFORM EAST
3/4" = 1'-0"



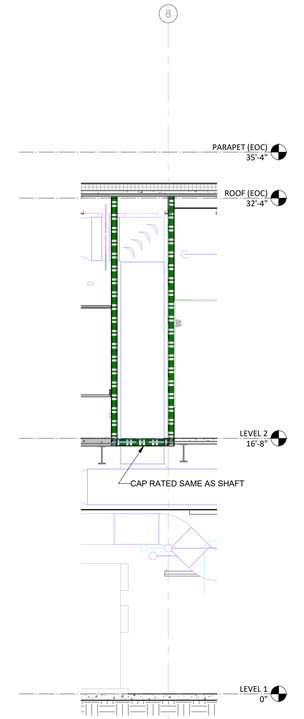
A1 SECTION - AREA A CHASES
1/4" = 1'-0"



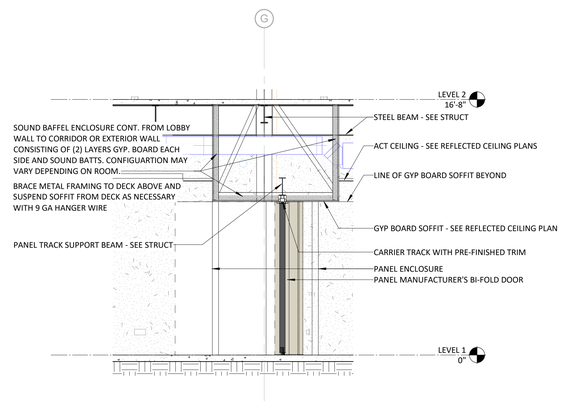
A3 SECTION - AREA B CHASE
1/4" = 1'-0"



A4 SECTION - CHASE AT MEN'S TLT
1/4" = 1'-0"



B5 SECTION - AREA C CHASE
1/4" = 1'-0"



A5 OPERABLE PARTITION - TYPICAL
1/4" = 1'-0"

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TIME OF PLOTTING FROM CAD FILE

12/16/2020 9:57:54 AM

CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 50417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME:
INTERIOR SECTION DETAILS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-552

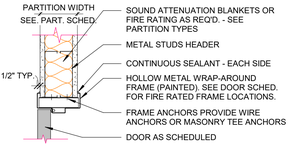
GMP SET

ARCH- DOOR SCHEDULE

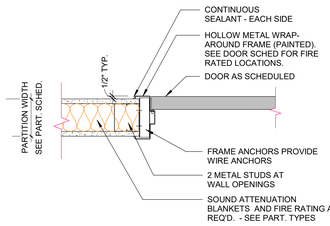
DOOR NUMBER	FIRE RATING (MIN)	DOOR PANEL: PANEL TYPE PANEL 1	PANEL TYPE PANEL 2	DOOR PANEL FINISH	PANEL DIMENSIONS WIDTH PANEL 1	WIDTH PANEL 2	HEIGHT	DOOR FRAME TYPE	DOOR FRAME FINISH	FACE DIMENSIONS JAMB WIDTH	FACE DIMENSIONS HEAD HEIGHT	COMMENTS
LEVEL 1												
101		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
101A		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
101B		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
101C		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
101D		PNL-F-HM	PNL-F-HM	PAINTED METAL	3'-0"	3'-0"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
101E		PNL-FG-AL		DARK BRONZE	3'-0"		8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
101J		PNL-FG-AL		DARK BRONZE	3'-0"		8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
101K		PNL-FG-AL		DARK BRONZE	3'-0"		8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	ACCESS CONTROL
102		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	ACCESS CONTROL
102A		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	ACCESS CONTROL
102B		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
102C		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
103	45	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
104	90	PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
105		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	ACCESS CONTROL
105A		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	ACCESS CONTROL
105B		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
105C		PNL-FG-AL	PNL-FG-AL	DARK BRONZE	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
106A		PNL-FG-AL		DARK BRONZE	3'-0"		8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	ACCESS CONTROL
106B		PNL-FG-AL		DARK BRONZE	3'-0"		8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	ACCESS CONTROL
106C		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
107		PNL-FG-AL		DARK BRONZE	3'-0"		8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	ACCESS CONTROL
107A		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
107B		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
109		PNL-F-HM	PNL-F-HM	PAINTED METAL	3'-0"	3'-0"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
110		PNL-F-HM	PNL-F-HM	PAINTED METAL	3'-0"	3'-0"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
111		PNL-F-HM		PAINTED METAL	3'-6"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
111A	90	PNL-F-WD	PNL-F-HM	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
111B		PNL-NP		N/A	4'-0"		7'-0"	FRM-00HM2	PAINTED METAL	2"	2"	
112		PNL-F-HM		PAINTED METAL	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
121		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
122A		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
122B		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
123A		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
123B		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
124		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
125		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	2"	2"	
126A		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
126B		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
128		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
129		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
130		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
131		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-50HM6(CW)	N/A	0"	2"	SLIDING DOOR SYSTEM
132		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-50HM6(CW)	N/A	0"	2"	SLIDING DOOR SYSTEM
133		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-50HM6(CW)	N/A	0"	2"	SLIDING DOOR SYSTEM
134		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-50HM6(CW)	N/A	0"	2"	SLIDING DOOR SYSTEM
135		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-50HM6(CW)	N/A	0"	2"	SLIDING DOOR SYSTEM
136A		PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
136B	45	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
137A		PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
137B	45	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
138		PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
139A		PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	8'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
139B	45	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
140		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
141	45	PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
142		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
143		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
144		PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
145		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
146	45	PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
147A	45	PNL-N-WD	PNL-N-WD	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-01HM4	PAINTED METAL	2"	2"	ACCESS CONTROL
147B		PNL-N-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
148		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
149		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
150		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
151		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
154B		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
154C		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
154D		PNL-F-WD		STAINED WOOD	3'-2"		7'-0"	FRM-50HM6	N/A	1"	2"	SLIDING DOOR SYSTEM
154E		PNL-F-WD		STAINED WOOD	3'-2"		7'-0"	FRM-50HM6	N/A	1"	2"	SLIDING DOOR SYSTEM
154F		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
154G		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
154H		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
154I		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
154J		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
155	45	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
156		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
158		PNL-N-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
159		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
161		PNL-F-WD		STAINED WOOD	3'-6"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
163A		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
163B		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
164		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
165		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
166		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
167		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
168		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
169		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
170		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
171A		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
171B		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
172		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
173		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
174		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
175		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
176		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
177		PNL-F-WD		STAINED WOOD	3'-6"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
178		PNL-N-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
179		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
M1A		PNL-F-HM		PAINTED METAL	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
M1E		PNL-F-HM		PAINTED METAL	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
S1	90	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
S3A	90	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL

ARCH- DOOR SCHEDULE

DOOR NUMBER	FIRE RATING (MIN)	DOOR PANEL: PANEL TYPE PANEL 1	PANEL TYPE PANEL 2	DOOR PANEL FINISH	PANEL DIMENSIONS WIDTH PANEL 1	WIDTH PANEL 2	HEIGHT	DOOR FRAME TYPE	DOOR FRAME FINISH	FACE DIMENSIONS JAMB WIDTH	FACE DIMENSIONS HEAD HEIGHT	COMMENTS
LEVEL 2												
202	45	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
203	45	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
206	45	PNL-F-WD		STAINED WOOD	3'-6"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
207	90	PNL-F-WD		STAINED WOOD	3'-6"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
208	45	PNL-F-WD		STAINED WOOD	3'-6"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
221		PNL-NP		N/A	6'-0"		7'-0"	FRM-00AL2	DARK BRONZE	2"	2"	ALUM CASED OPENING
222A		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
222B		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
223		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
224		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
225		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
226		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
227		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
228		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
229		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
230		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
231		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
232		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
233	45	PNL-F-WD	PNL-F-WD	STAINED WOOD	2'-6"	2'-6"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
234		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
235		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
236		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
237		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
239		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
240		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
241		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
242		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
243		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
244		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
245	45	PNL-F-WD	PNL-F-WD	STAINED WOOD	2'-6"	2'-6"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
246		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
247A		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
247B		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
248		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
249		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
250		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
251		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
253		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
254		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
255		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
256		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
257		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
258		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
259		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
260		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
261		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
262		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
263		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
264		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
265		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
268	45	PNL-N-WD	PNL-N-WD	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-01HM4	PAINTED METAL	2"	2"	
273		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
274		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
275		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
276		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
277		PNL-NP		N/A	4'-0"		7'-0"	FRM-00HM2	PAINTED METAL	2"	2"	HM CASED OPENING
278		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
279A		PNL-FG-WD	PNL-FG-WD	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
279B		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
280		PNL-F-GL	PNL-F-GL	FULL GLASS	3'-0"	3'-0"	7'-0"	FRM-52HM6(CW)	N/A	2"	2"	SLIDING DOOR SYSTEM
281		PNL-F-GL	PNL-F-GL	FULL GLASS	3'-0"	3'-0"	7'-0"	FRM-52HM6(CW)	N/A	2"	2"	SLIDING DOOR SYSTEM
281A		PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-52HM6(CW)	N/A	2"	2"	SLIDING DOOR SYSTEM
282		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
283		PNL-F-GL		FULL GLASS	6'-0"		7'-0"	FRM-50HM6	N/A	2"	2"	SLIDING DOOR SYSTEM
284		PNL-F-GL		FULL GLASS	6'-0"		7'-0"	FRM-50HM6	N/A	2"	2"	SLIDING DOOR SYSTEM
284B		PNL-F-WD	PNL-F-WD	STAINED WOOD	3'-0"	3'-0"	7'-0"	FRM-52HM6(CW)	N/A	2"	2"	SLIDING DOOR SYSTEM
285		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
286		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
287		PNL-F-GL	PNL-F-GL	FULL GLASS	3'-0"	3'-0"	7'-0"	FRM-52HM6(CW)	N/A	2"	2"	SLIDING DOOR SYSTEM
51A	90	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
52	90	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
53B	90	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
54		PNL-F-HM		PAINTED METAL	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
LEVEL 3												
301		PNL-F-HM		PAINTED METAL	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
302	45	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
303	45	PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	ACCESS CONTROL
321		PNL-NP		N/A	5'-0"		7'-0"	FRM-00AL2	DARK BRONZE	2"	2"	ALUM CASED OPENING
322A		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
322B		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
323		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
324		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
325		PNL-FG-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
326		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
327		PNL-NP		N/A	4'-0"		7'-0"	FRM-00HM2	PAINTED METAL	2"	2"	HM CASED OPENING
328		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
329		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
330		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
331		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
332		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
333	45	PNL-F-WD	PNL-F-WD	STAINED WOOD	2'-6"	2'-6"	7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
334		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
335		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
336		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
337		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
338		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
339		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
340		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
341		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
342		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00AL(CW)	DARK BRONZE	0"	0"	
343A		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	
343B		PNL-F-WD		STAINED WOOD	3'-0"		7'-0"	FRM-00HM1	PAINTED METAL	2"	2"	

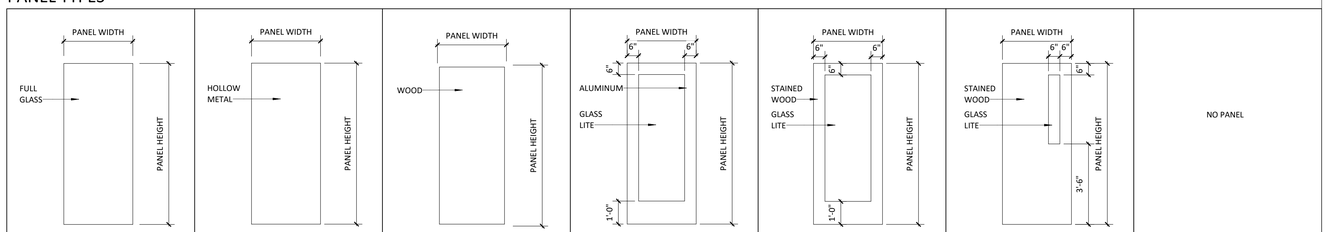


D6	HM DOOR HEAD, TYP.	1 1/2" = 1'-0"
A-602		



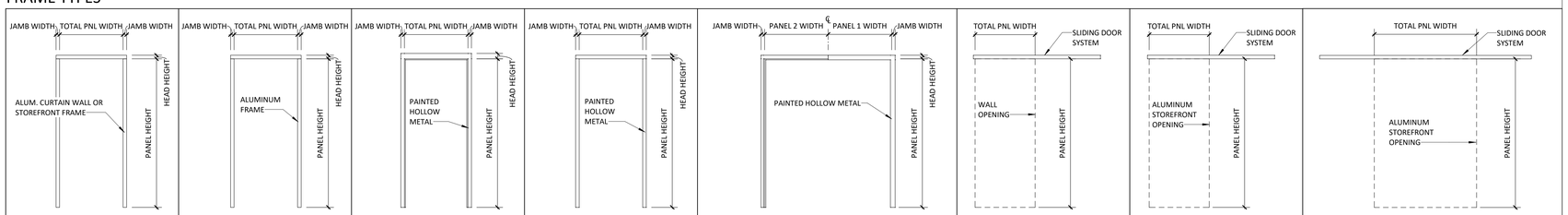
C6	HM DOOR JAMB, TYP.	1 1/2" = 1'-0"
A-602		

PANEL TYPES



B3.5	PNL-F-GL	B4	PNL-F-HM	B4.5	PNL-F-WD	B5	PNL-FG-AL	B5.5	PNL-FG-WD	B6	PNL-N-WD	B6.5	PNL-NP
A-602		A-602		A-602		A-602		A-602		A-602		A-602	

FRAME TYPES



A2.5	FRM-00AL(CW)	A3	FRM-00AL2	A3.5	FRM-00HM1	A4	FRM-00HM2	A4.5	FRM-01HM4	A5	FRM-50HM6	A5.5	FRM-50HM6(CW)	A6	FRM-52HM6(CW)
A-602		A-602		A-602		A-602		A-602		A-602		A-602		A-602	

CAPE FEAR FD STONEWATER

LS3P

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WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT.NO. 00417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	TI- DESIGN DEVELOPMENT
B	2020.11.20	TI GMP SET
C	2020.12.16	GMP SET

SHEET NAME:
DOOR & FRAME TYPES AND DETAILS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-602

GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

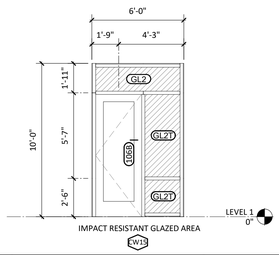
12/16/2020 9:58:21 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

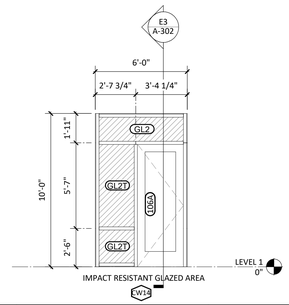
GLAZING TYPES LEGEND

TYPE	DESCRIPTION
GL1	1" INSULATED GLAZING
GL2	1" INSULATED GLAZING - IMPACT RESISTANT
GL3	1/4" NON-INSULATED GLAZING
GL4	1/4" NON-INSULATED GLAZING - IMPACT RESISTANT
GL5	SPANDREL GLAZING
GL6	SPANDREL GLAZING - IMPACT RESISTANT
GL7	1" INSULATED CERAMIC FRITTED GLAZING (ALTERNATE BID)
GL8	1/2" NON-INSULATED GLAZING
ACM1	ACM SOLID PANEL
---T	"T" DENOTES TEMPERED GLASS LOCATION

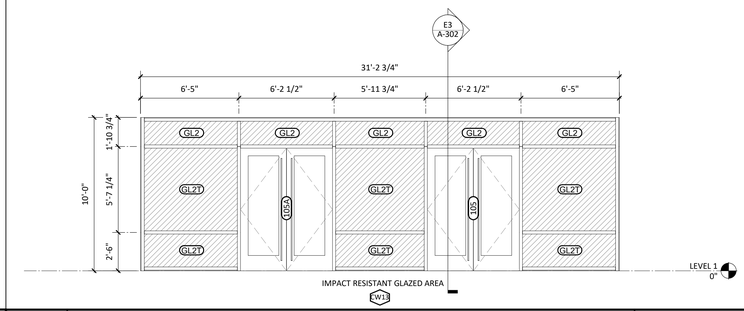
E



E1 A-611	CW15	1/4" = 1'-0"

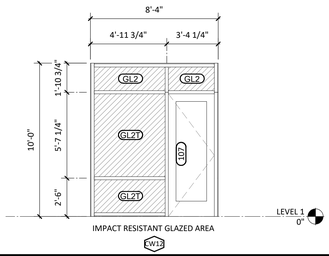


E2 A-611	CW14	1/4" = 1'-0"

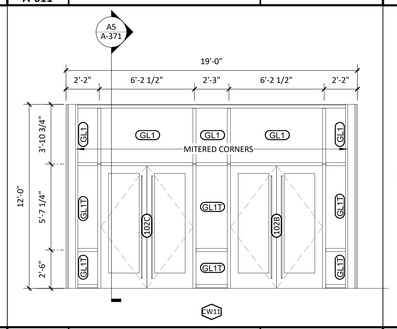


E3 A-611	CW13	1/4" = 1'-0"

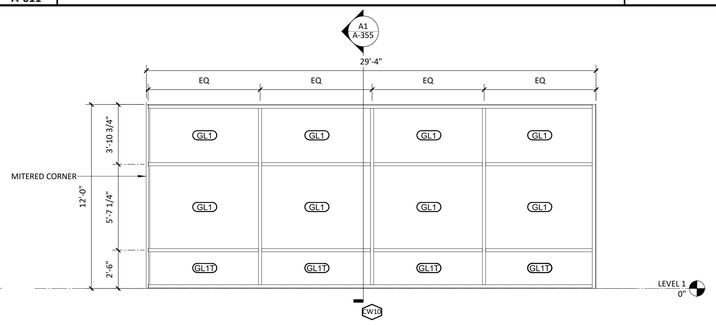
D



D1 A-611	CW12	1/4" = 1'-0"

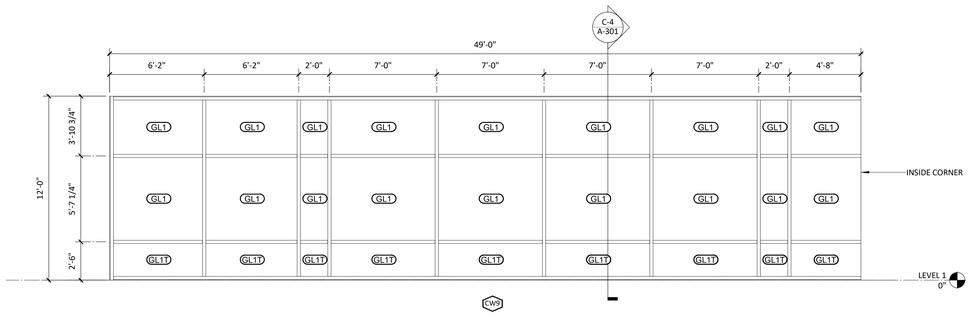


D2 A-611	CW11	1/4" = 1'-0"



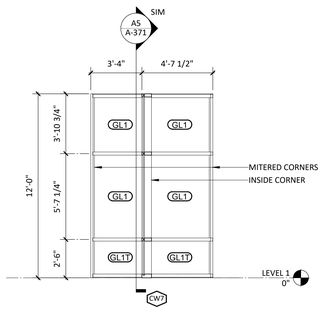
D3 A-611	CW10	1/4" = 1'-0"

C

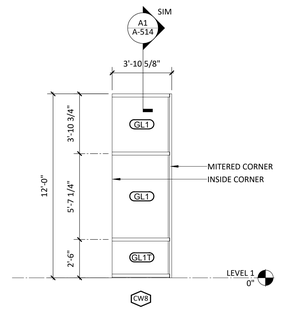


C1 A-611	CW9	1/4" = 1'-0"

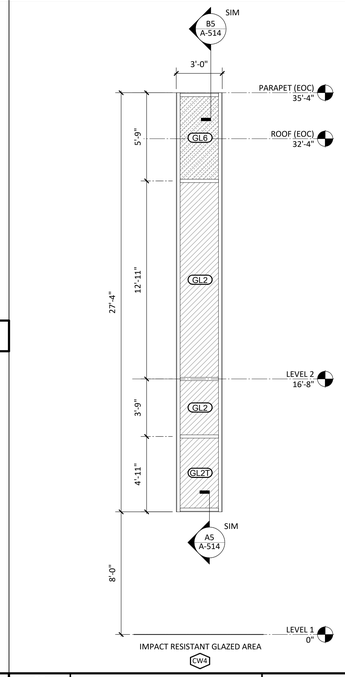
B



B1 A-611	CW7	1/4" = 1'-0"

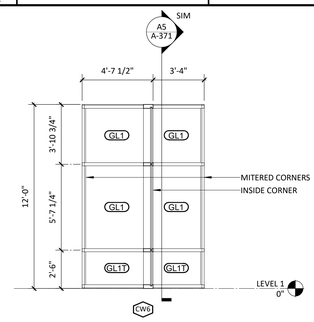


B2 A-611	CW8	1/4" = 1'-0"

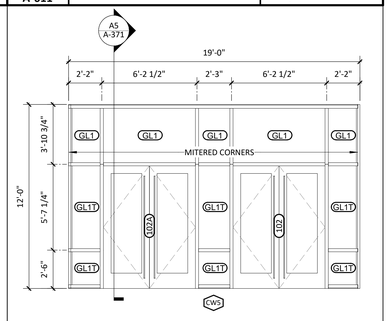


A3 A-611	CW4	1/4" = 1'-0"

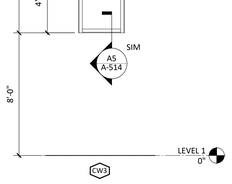
A



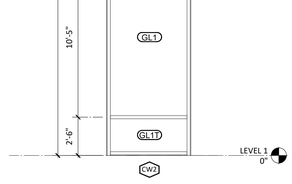
A1 A-611	CW6	1/4" = 1'-0"



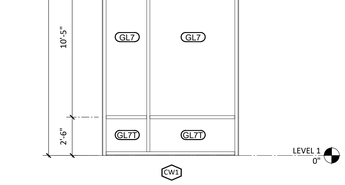
A2 A-611	CW5	1/4" = 1'-0"



A4 A-611	CW3	1/4" = 1'-0"



A5 A-611	CW2	1/4" = 1'-0"



A6 A-611	CW1	1/4" = 1'-0"

1 2 3 4 5 6

12/16/2020 9:58:33 AM

CAPE FEAR FD STONEWATER

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LS3P ASSOCIATES LTD. CERT NO. 00417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
CURTAIN WALL

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

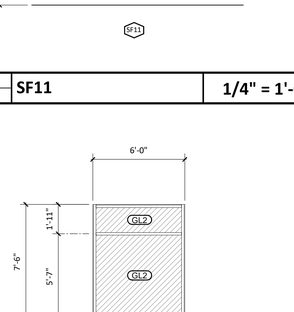
SHEET:
A-611

GMP SET

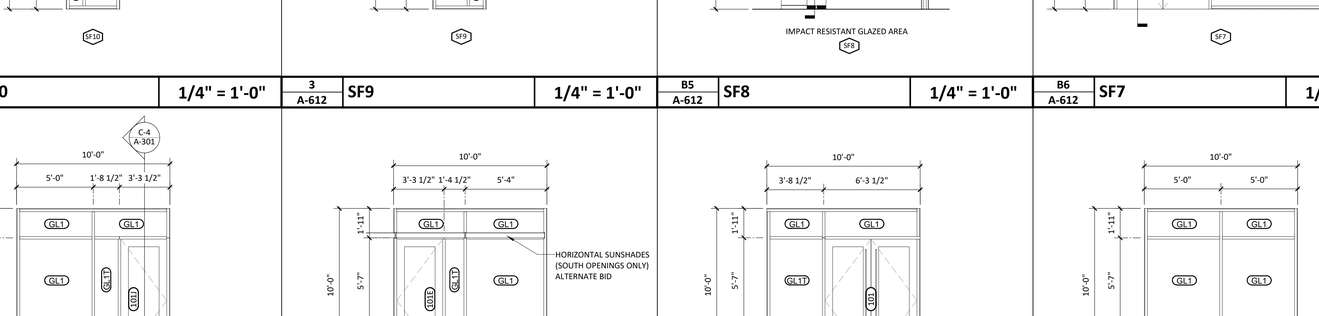
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GLAZING TYPES LEGEND

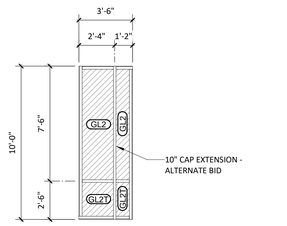
TYPE	DESCRIPTION
GL1	1" INSULATED GLAZING
GL2	1" INSULATED GLAZING - IMPACT RESISTANT
GL3	1/4" NON-INSULATED GLAZING
GL4	1/4" NON-INSULATED GLAZING - IMPACT RESISTANT
GL5	SPANDREL GLAZING
GL6	SPANDREL GLAZING - IMPACT RESISTANT
GL7	1" INSULATED CERAMIC FRITTED GLAZING (ALTERNATE BID)
GL8	1/2" NON-INSULATED GLAZING
ACM1	ACM SOLID PANEL
---T	"T" DENOTES TEMPERED GLASS LOCATION



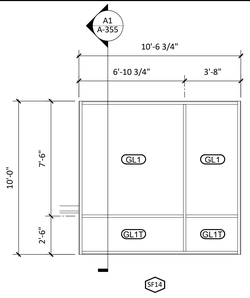
4 A-612 **SF17** 1/4" = 1'-0"



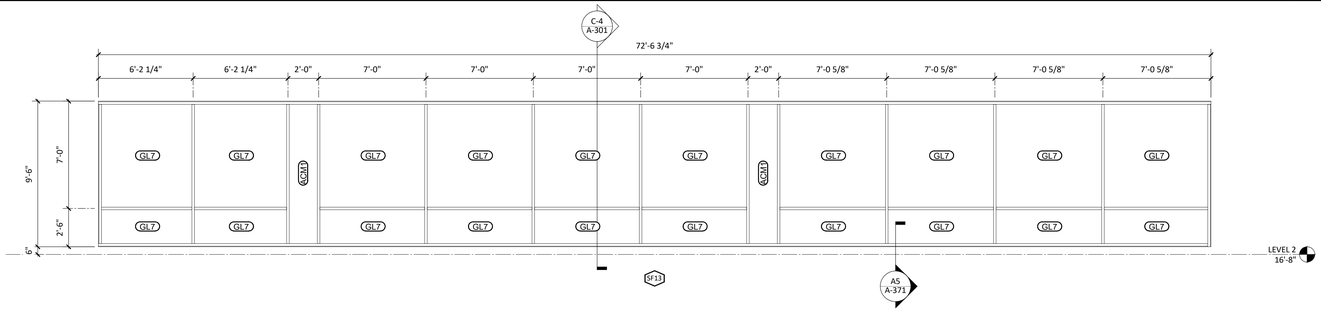
1 A-612 **SF15** 1/4" = 1'-0"



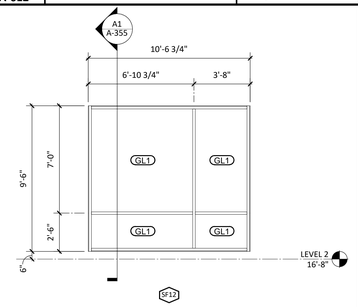
B4 A-612 **SF16** 1/4" = 1'-0"



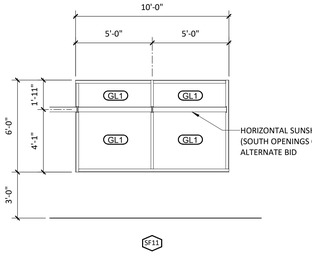
2 A-612 **SF14** 1/4" = 1'-0"



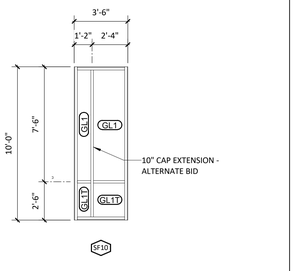
C3 A-612 **SF13** 1/4" = 1'-0"



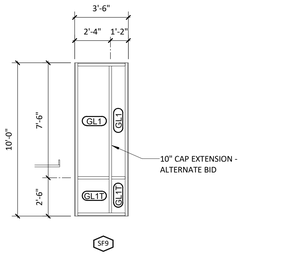
B1 A-612 **SF12** 1/4" = 1'-0"



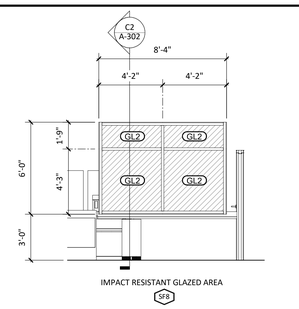
B2 A-612 **SF11** 1/4" = 1'-0"



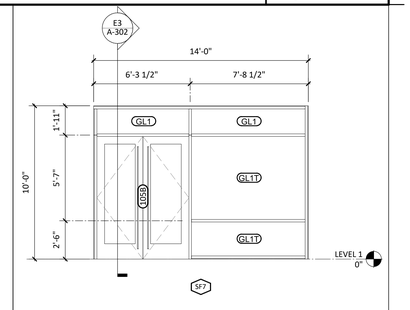
B3 A-612 **SF10** 1/4" = 1'-0"



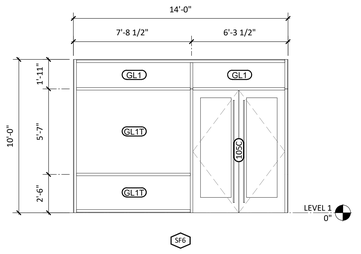
3 A-612 **SF9** 1/4" = 1'-0"



B5 A-612 **SF8** 1/4" = 1'-0"



B6 A-612 **SF7** 1/4" = 1'-0"



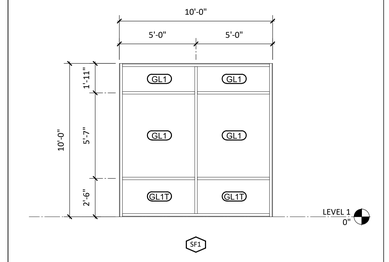
A1 A-612 **SF6** 1/4" = 1'-0"

A2 A-612 **SF5** 1/4" = 1'-0"

A3 A-612 **SF4** 1/4" = 1'-0"

A4 A-612 **SF3** 1/4" = 1'-0"

A5 A-612 **SF2** 1/4" = 1'-0"



A6 A-612 **SF1** 1/4" = 1'-0"

1 2 3 4 5 6

12/16/2020 9:58:44 AM

CAPE FEAR FD STONEWATER

LS3P

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WILMINGTON, NORTH CAROLINA 28401
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 50417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	C+S DESIGN DEVELOPMENT
B	2020.10.16	C+S PERMIT SET
C	2020.12.16	GMP SET

SHEET NAME:
EXTERIOR STOREFRONT

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-612

GMP SET

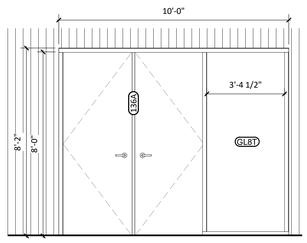
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GLAZING TYPES LEGEND

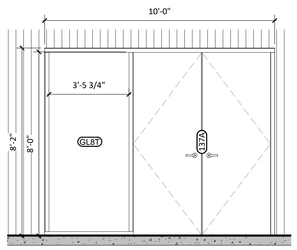
TYPE	DESCRIPTION
GL1	1" INSULATED GLAZING
GL2	1" INSULATED GLAZING - IMPACT RESISTANT
GL3	1/4" NON-INSULATED GLAZING
GL4	1/4" NON-INSULATED GLAZING - IMPACT RESISTANT
GL5	SPANDREL GLAZING
GL6	SPANDREL GLAZING - IMPACT RESISTANT
GL7	1" INSULATED CERAMIC FRITTED GLAZING (ALTERNATE BID)
GL8	1/2" NON-INSULATED GLAZING
ACM1	ACM SOLID PANEL
---T	"T" DENOTES TEMPERED GLASS LOCATION



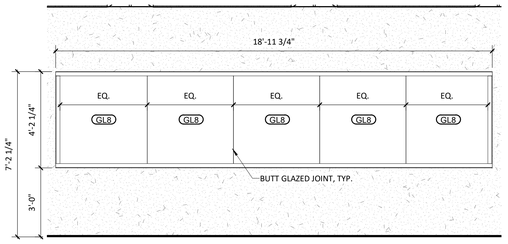
C1 LEVEL 01 AREA C OFFICES 163, 164, 165, 166, 168, 169, 170
3/8" = 1'-0"



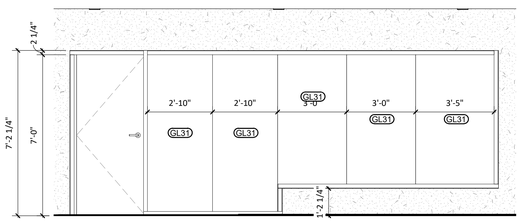
B1 LEVEL 01 AREA B TRAINING 136
3/8" = 1'-0"



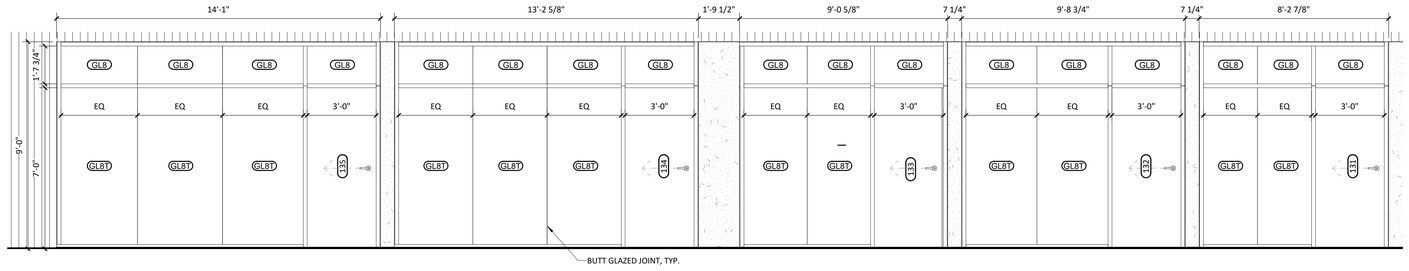
B2 LEVEL 01 AREA B TRAINING 137
3/8" = 1'-0"



B3 LEVEL 01 AREA B MEDIA 143
3/8" = 1'-0"



A1 LEVEL 01 AREA A VAULT 125
3/8" = 1'-0"



A2 LEVEL 01 AREA B CONF 131, 132, 133, 134, 135
3/8" = 1'-0"

12/16/2020 9:58:52 AM

CAPE FEAR FD STONEWATER

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WWW.LS3P.COM

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

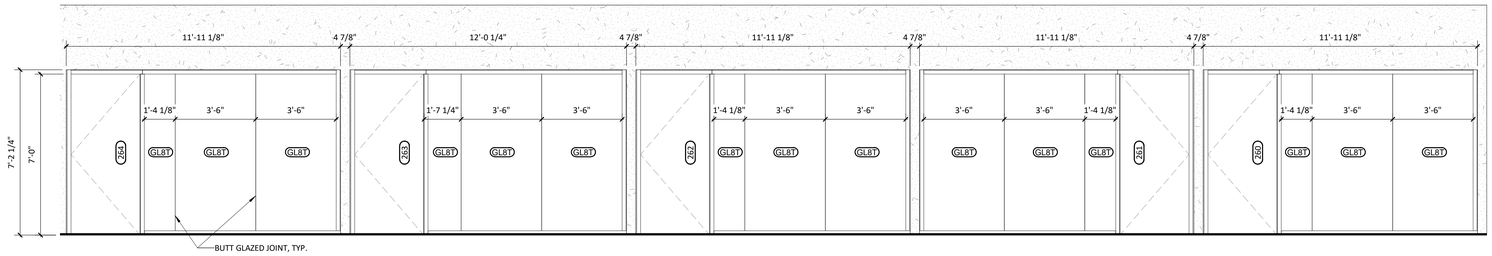
SHEET NAME:
INTERIOR STOREFRONT

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-621

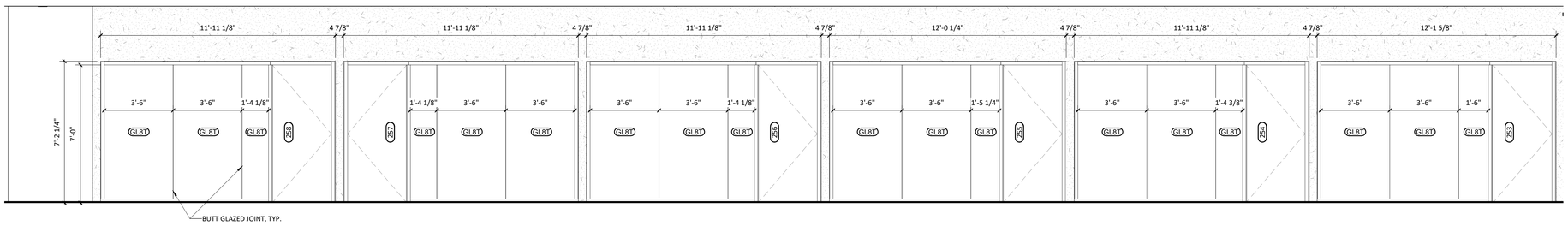
GMP SET

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ACTUAL DRAWING SCALE



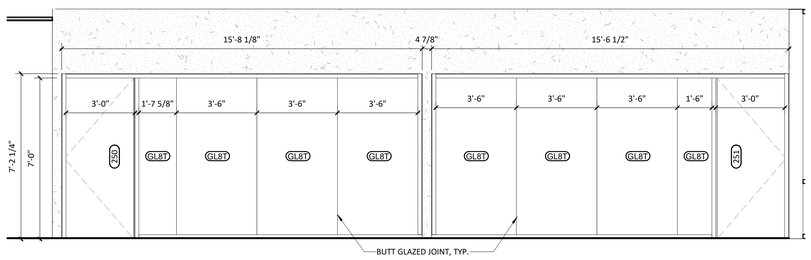
E1 LEVEL 02 AREA B OFFICES 260, 261, 262, 263, 264

3/8" = 1'-0"



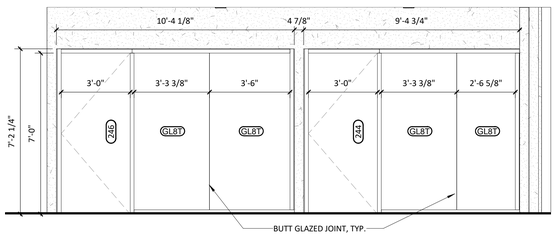
D1 LEVEL 02 AREA B OFFICES 253, 254, 255, 256, 257, 258

3/8" = 1'-0"



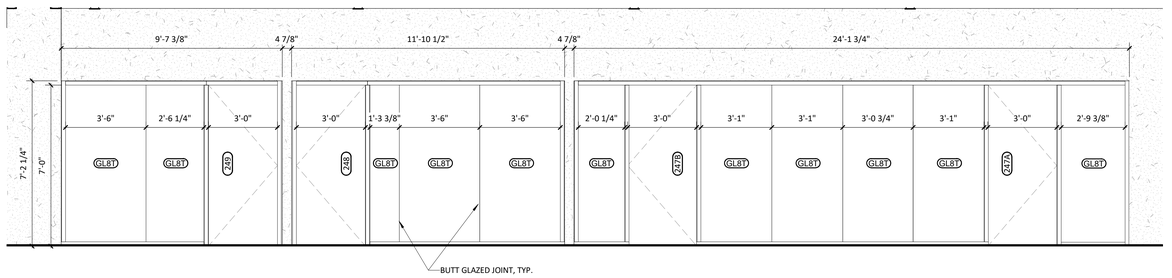
C1 LEVEL 02 OFFICES AREA B OFFICES 250 & 251

3/8" = 1'-0"



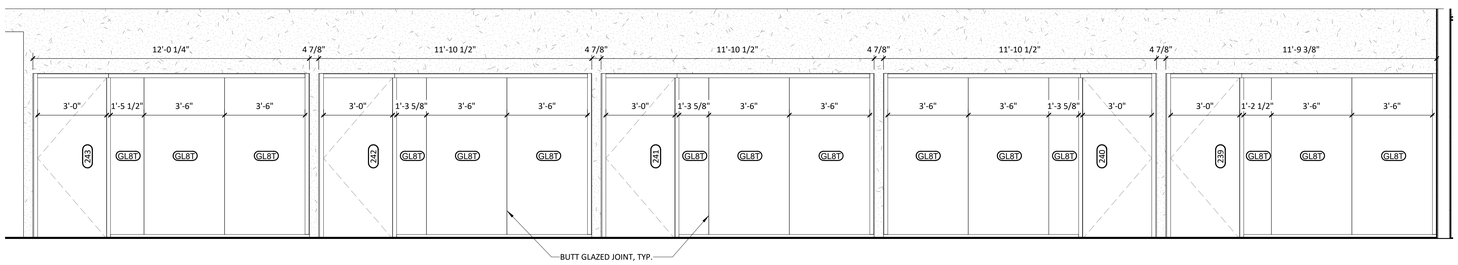
B1 LEVEL 02 AREA A OFFICES 244, 246

3/8" = 1'-0"



B2 LEVEL 02 AREA A WORKROOM 247, OFFICES 248, 249

3/8" = 1'-0"



A1 LEVEL 02 AREA A OFFICES 239, 240, 241, 242, 243

3/8" = 1'-0"

GLAZING TYPES LEGEND

TYPE	DESCRIPTION
GL1	1" INSULATED GLAZING
GL2	1" INSULATED GLAZING - IMPACT RESISTANT
GL3	1/4" NON-INSULATED GLAZING
GL4	1/4" NON-INSULATED GLAZING - IMPACT RESISTANT
GL5	SPANDREL GLAZING
GL6	SPANDREL GLAZING - IMPACT RESISTANT
GL7	1" INSULATED CERAMIC FRITTED GLAZING (ALTERNATE BID)
GL8	1/2" NON-INSULATED GLAZING
ACM1	ACM SOLID PANEL
---T	"T" DENOTES TEMPERED GLASS LOCATION

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. CERT NO. 50417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME:
INTERIOR STOREFRONT

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

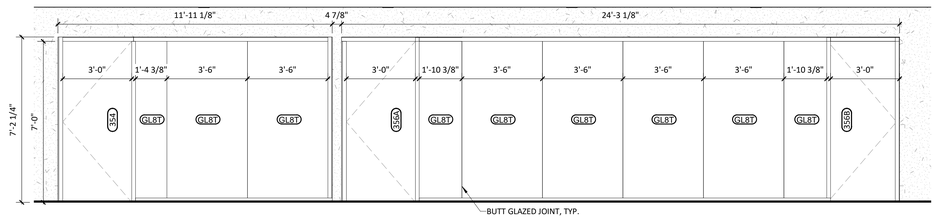
SHEET:
A-622

GMP SET

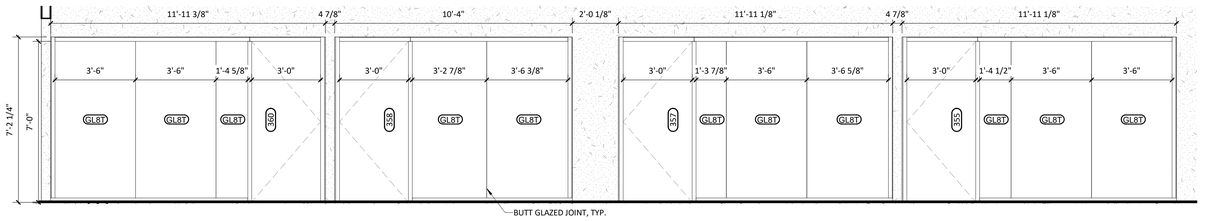
12/16/2020 9:59:00 AM

E D C B A

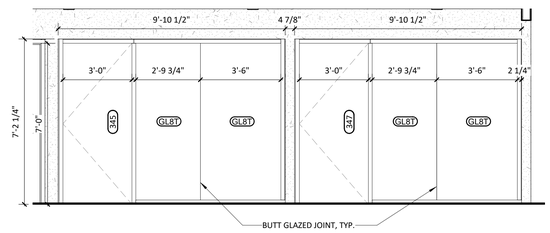
1 2 3 4 5 6



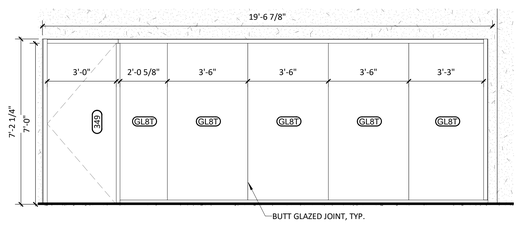
E1 LEVEL 03 AREA A OFFICE 354, LAYOUT 356
3/8" = 1'-0"



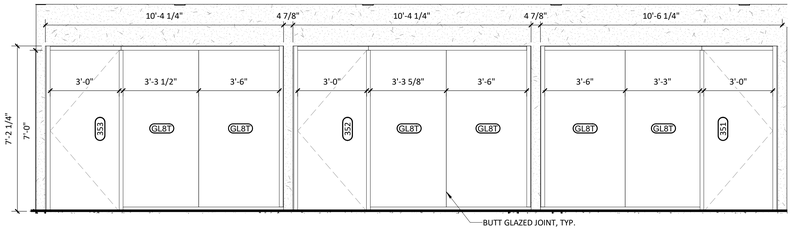
E3 LEVEL 03 AREA A OFFICES 355, 357, 358, 360
3/8" = 1'-0"



D1 LEVEL 03 AREA A OFFICES 345, 347
3/8" = 1'-0"

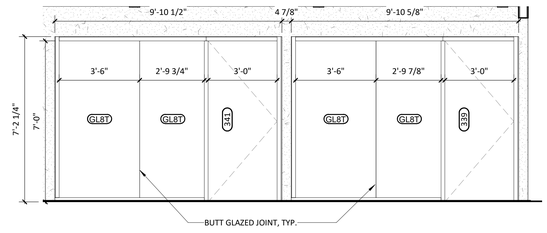


D2 LEVEL 03 AREA A PLAN REVIEW 349
3/8" = 1'-0"

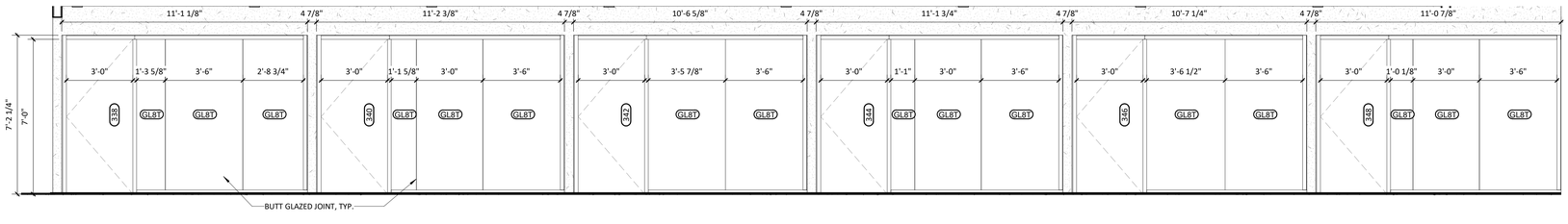


D4 LEVEL 03 AREA A OFFICES 351, 352, 353
3/8" = 1'-0"

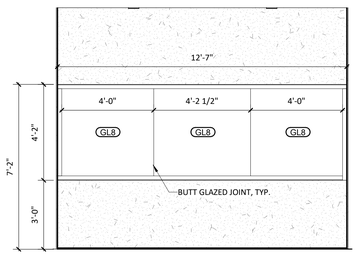
GLAZING TYPES LEGEND	
TYPE	DESCRIPTION
GL1	1" INSULATED GLAZING
GL2	1" INSULATED GLAZING - IMPACT RESISTANT
GL3	1/4" NON-INSULATED GLAZING
GL4	1/4" NON-INSULATED GLAZING - IMPACT RESISTANT
GL5	SPANDREL GLAZING
GL6	SPANDREL GLAZING - IMPACT RESISTANT
GL7	1" INSULATED CERAMIC FRITTED GLAZING (ALTERNATE BID)
GL8	1/2" NON-INSULATED GLAZING
ACM1	ACM SOLID PANEL
---T	"T" DENOTES TEMPERED GLASS LOCATION



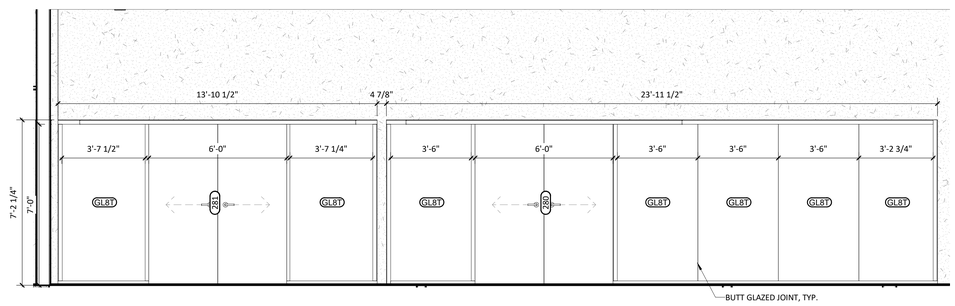
C1 LEVEL 03 AREA A OFFICES 339, 341
3/8" = 1'-0"



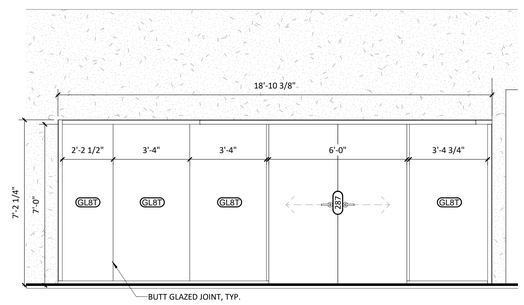
C2 LEVEL 03 AREA A OFFICES 338, 340, 342, 344, 346, 348
3/8" = 1'-0"



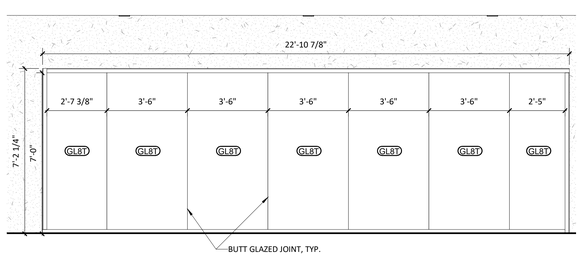
B1 LEVEL 02 AREA C MEDIA VIEWING 272
3/8" = 1'-0"



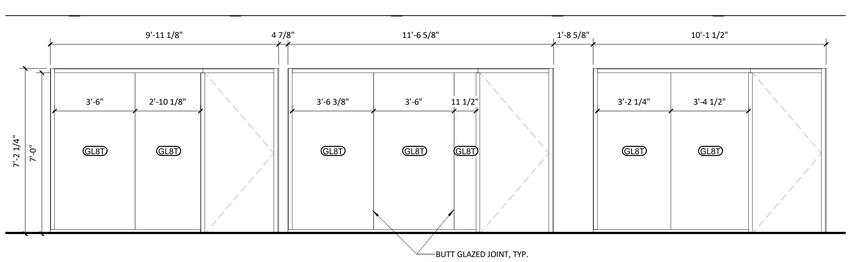
B2 LEVEL 02 AREA C EPIC 281 & JIC 280
3/8" = 1'-0"



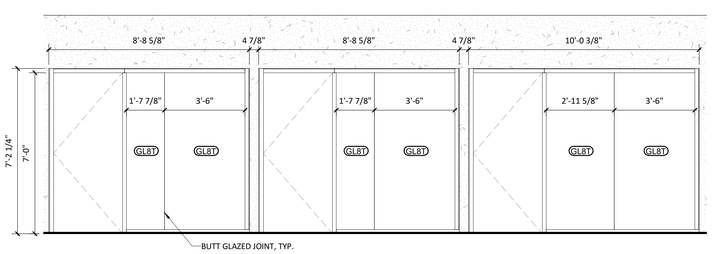
B5 LEVEL 02 AREA C JCC 287
3/8" = 1'-0"



A1 LEVELS 02, 03, 04 COLLABORATION CORE NORTH
3/8" = 1'-0"



A2 LEVELS 02, 03 COLLABORATION CORE EAST
3/8" = 1'-0"



A5 LEVELS 02, 03, 04 COLLABORATION CORE SOUTH
3/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY-FOUR INCH SCALE

12/16/2020 9:59:13 AM

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 50417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME:
INTERIOR STOREFRONT

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

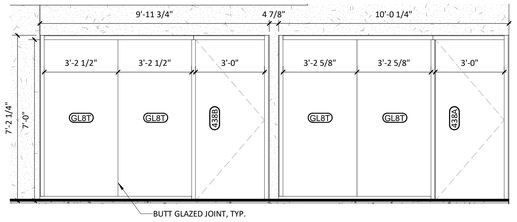
SHEET:
A-623

GMP SET

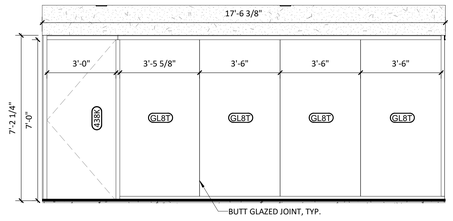
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ACTUAL DRAWING SCALE

GLAZING TYPES LEGEND

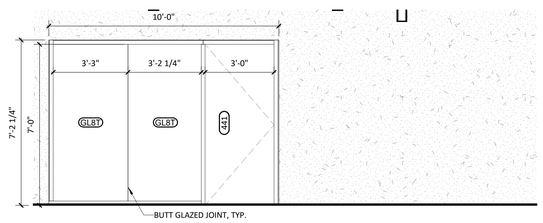
TYPE	DESCRIPTION
GL1	1" INSULATED GLAZING
GL2	1" INSULATED GLAZING - IMPACT RESISTANT
GL3	1/4" NON-INSULATED GLAZING
GL4	1/4" NON-INSULATED GLAZING - IMPACT RESISTANT
GL5	SPANDREL GLAZING
GL6	SPANDREL GLAZING - IMPACT RESISTANT
GL7	1" INSULATED CERAMIC FRITTED GLAZING (ALTERNATE BID)
GL8	1/2" NON-INSULATED GLAZING
ACM1	ACM SOLID PANEL
---T	"T" DENOTES TEMPERED GLASS LOCATION



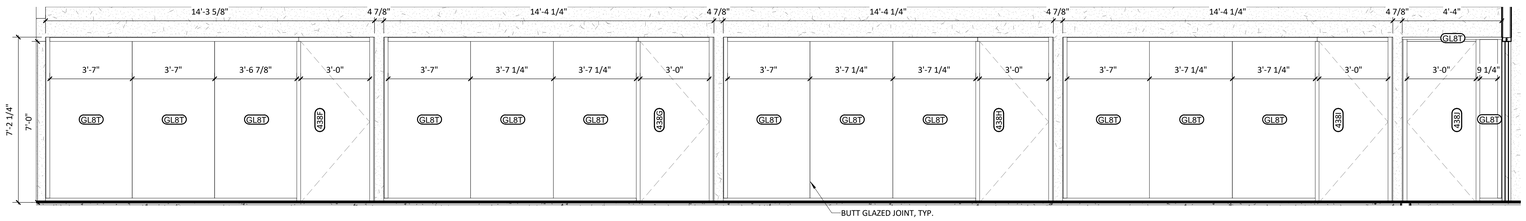
E1 LEVEL 04 AREA 1 OFFICES 438A, 438B
3/8" = 1'-0"



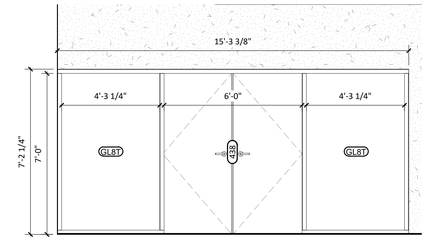
E2 LEVEL 04 AREA A CONFERENCE 438K
3/8" = 1'-0"



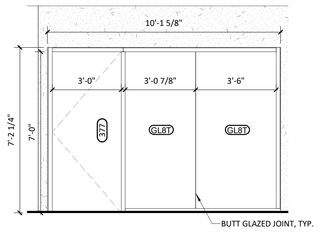
E3 LEVEL 04 AREA A OFFICES 440, 441
3/8" = 1'-0"



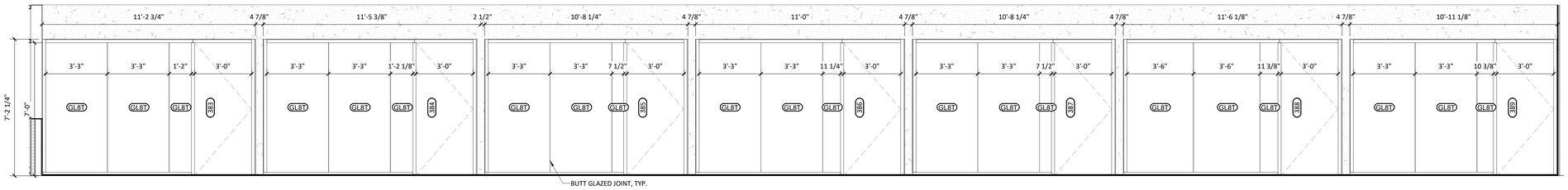
D1 LEVEL 04 AREA A OFFICES 438F, 438, G438, 438H, 438I, 438J
3/8" = 1'-0"



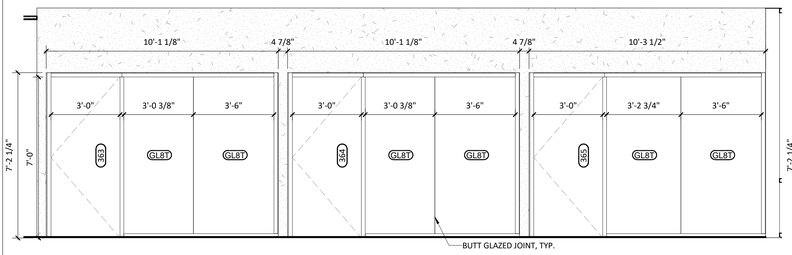
D5 LEVEL 04 AREA A COMMISSIONERS SUITE 438
3/8" = 1'-0"



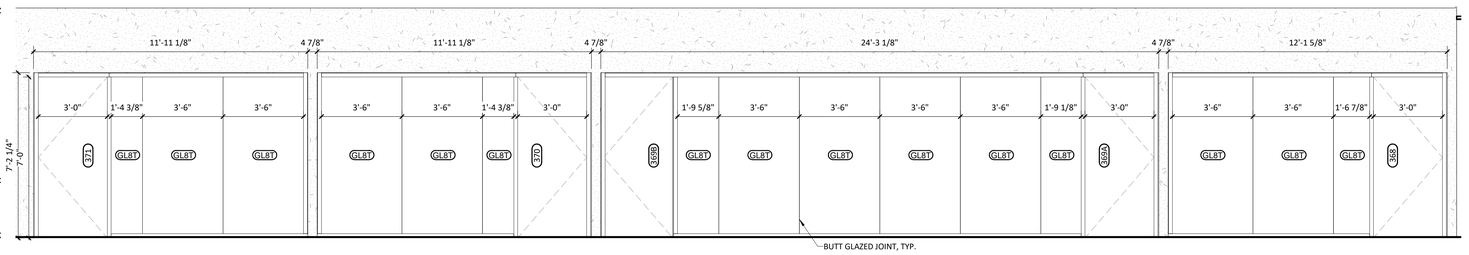
C1 LEVEL 03 AREA B OFFICE 377
3/8" = 1'-0"



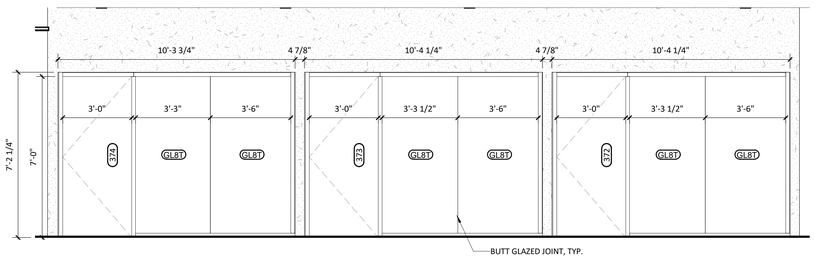
C2 LEVEL 03 AREA B OFFICES 383, 384, 385, 386, 387, 388, 389
3/8" = 1'-0"



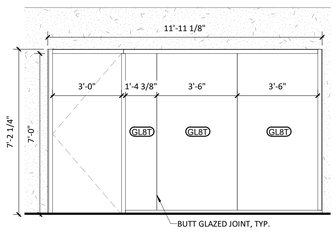
B1 LEVEL 03 AREA B OFFICES 363, 364, 365
3/8" = 1'-0"



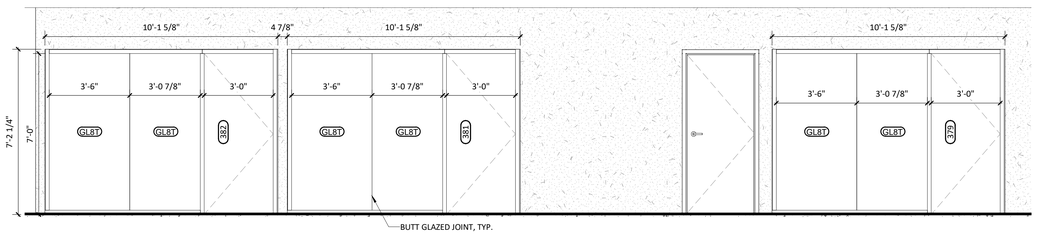
B3 LEVEL 03 AREA B OFFICES 368, 370, 371, PLAN REVIEW 369
3/8" = 1'-0"



A1 LEVEL 03 AREA B OFFICES 372, 373, 374
3/8" = 1'-0"



A3 LEVEL 03 AREA B OFFICE 376
3/8" = 1'-0"



A4 LEVEL 03 AREA B OFFICES 379, 381, 382
3/8" = 1'-0"

12/16/2020 9:59:24 AM

1 2 3 4 5 6

CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME:
INTERIOR STOREFRONT

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

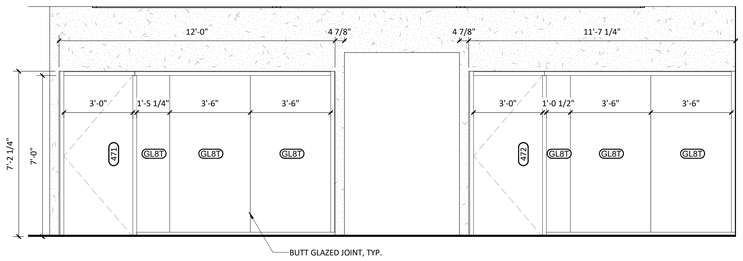
SHEET:
A-624

GMP SET

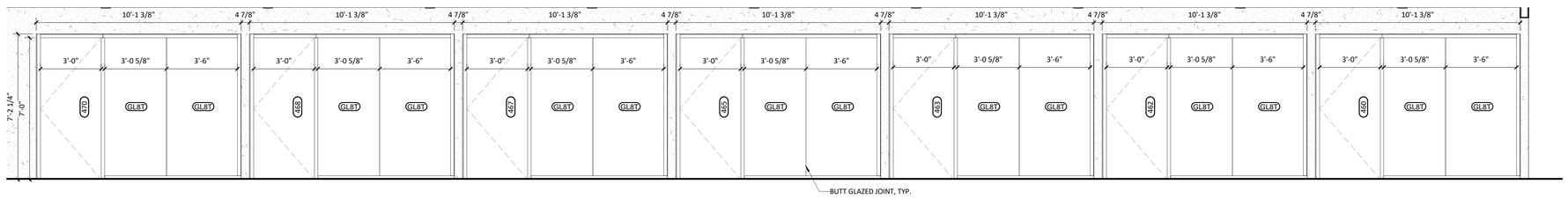
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ACTUAL DRAWING SCALE

GLAZING TYPES LEGEND

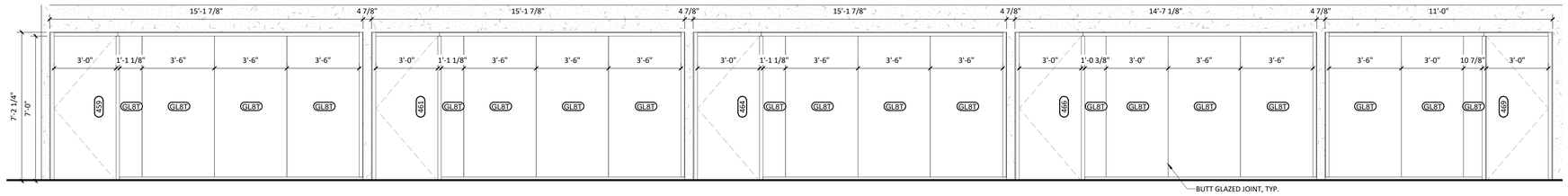
TYPE	DESCRIPTION
GL1	1" INSULATED GLAZING
GL2	1" INSULATED GLAZING - IMPACT RESISTANT
GL3	1/4" NON-INSULATED GLAZING
GL4	1/4" NON-INSULATED GLAZING - IMPACT RESISTANT
GL5	SPANDREL GLAZING
GL6	SPANDREL GLAZING - IMPACT RESISTANT
GL7	1" INSULATED CERAMIC FRITTED GLAZING (ALTERNATE BID)
GL8	1/2" NON-INSULATED GLAZING
ACM1	ACM SOLID PANEL
---T	"T" DENOTES TEMPERED GLASS LOCATION



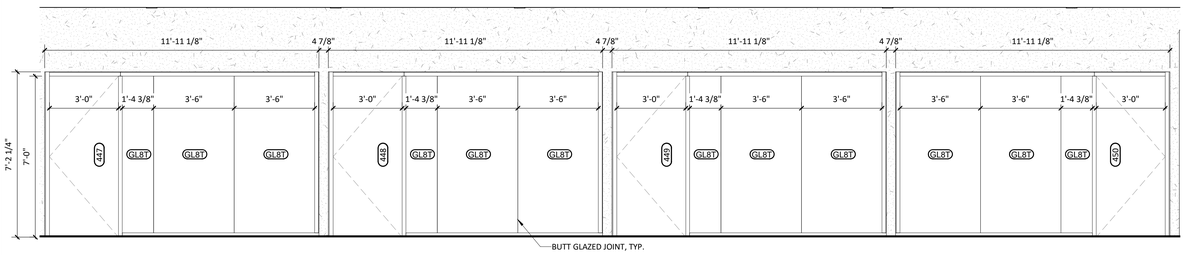
E1 LEVEL 04 AREA B OFFICES 471, 472
3/8" = 1'-0"



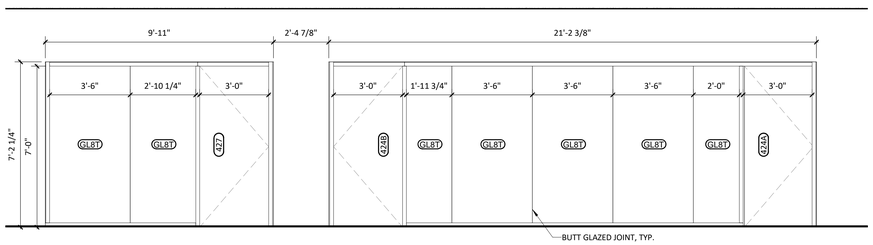
D1 LEVEL 04 AREA B OFFICES 460, 462, 463, 465, 467, 468, 470
3/8" = 1'-0"



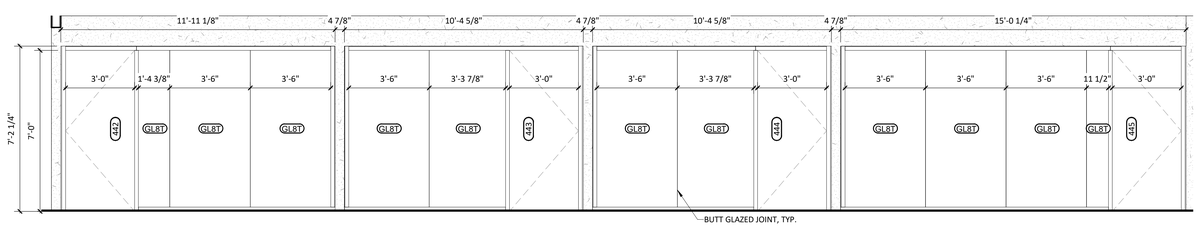
C1 LEVEL 04 AREA B OFFICES 459, 431, 464, 466, 469, 472
3/8" = 1'-0"



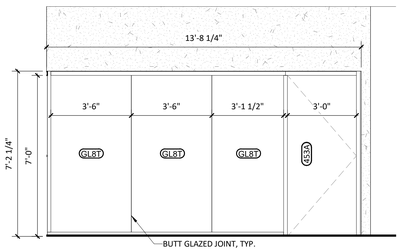
B1 LEVEL 04 AREA A OFFICES 447, 448, 449, 450
3/8" = 1'-0"



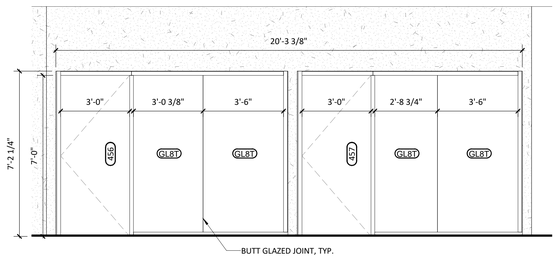
B4 LEVEL 04 COLLABORATION CORE EAST
3/8" = 1'-0"



A1 LEVEL 04 AREA A OFFICE 442, MEETING 443, PROJECT 444, MEETING 445
3/8" = 1'-0"



A4 LEVEL 04 AREA A CONFERENCE 453
3/8" = 1'-0"



A5 LEVEL 04 AREA A OFFICES 456, 457
3/8" = 1'-0"

12/16/2020 9:59:32 AM

1 2 3 4 5 6

A B C D E

CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 50417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME:
INTERIOR STOREFRONT

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

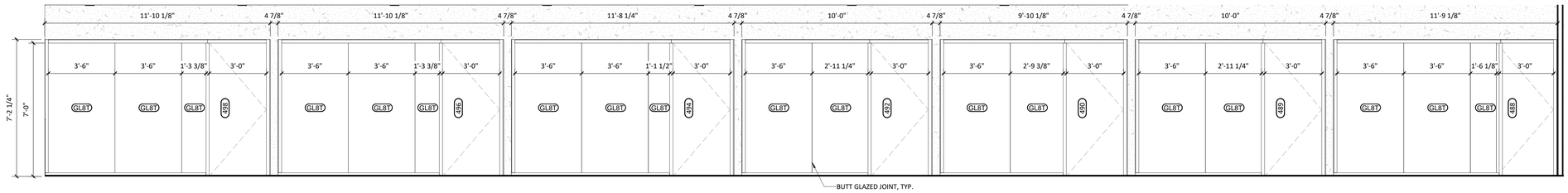
SHEET:
A-625

GMP SET

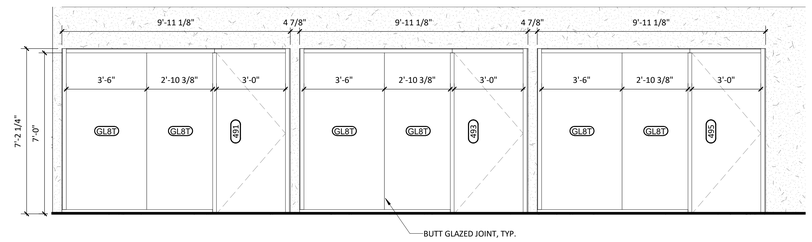
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GLAZING TYPES LEGEND

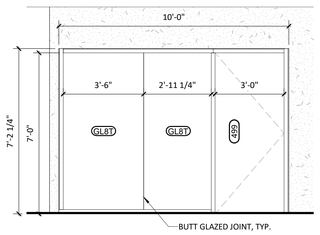
TYPE	DESCRIPTION
GL1	1" INSULATED GLAZING
GL2	1" INSULATED GLAZING - IMPACT RESISTANT
GL3	1/4" NON-INSULATED GLAZING
GL4	1/4" NON-INSULATED GLAZING - IMPACT RESISTANT
GL5	SPANDREL GLAZING
GL6	SPANDREL GLAZING - IMPACT RESISTANT
GL7	1" INSULATED CERAMIC FRITTED GLAZING (ALTERNATE BID)
GL8	1/2" NON-INSULATED GLAZING
ACM1	ACM SOLID PANEL
---T	"T" DENOTES TEMPERED GLASS LOCATION



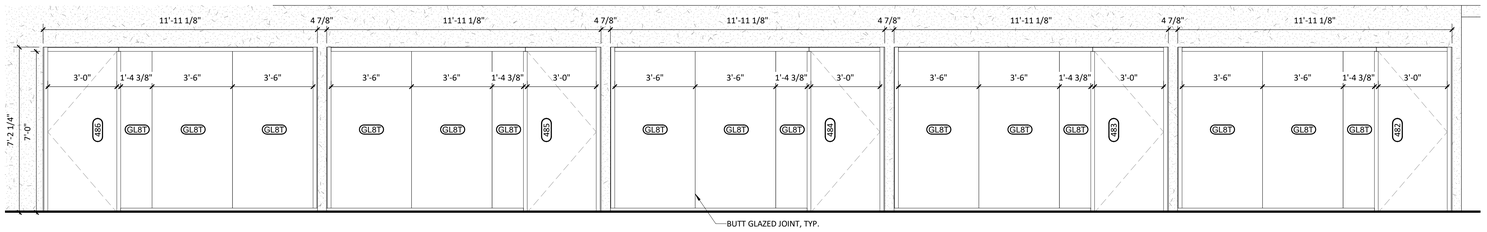
D1 LEVEL 04 AREA B OFFICES 488, 489, 490, 492, 494, 496, 498
3/8" = 1'-0"



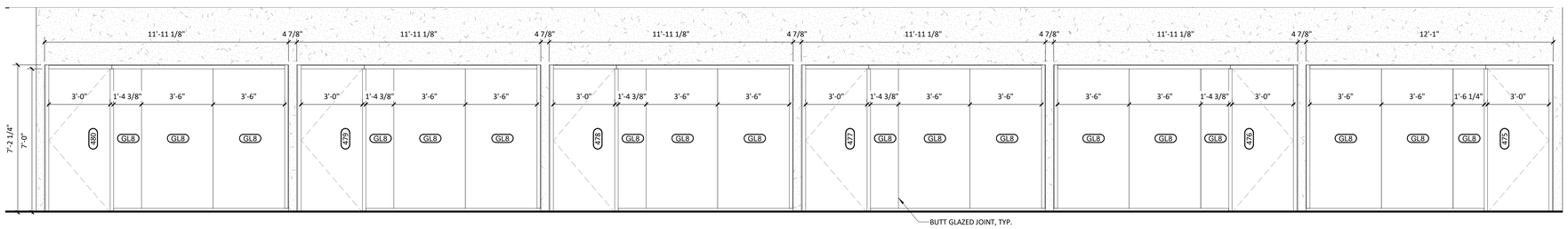
C1 LEVEL 04 AREA B OFFICES 491, 493, 495
3/8" = 1'-0"



C3 LEVEL 04 AREA B OFFICE 499
3/8" = 1'-0"



B1 LEVEL 04 AREA B OFFICES 482, 483, 484, 485, 486
3/8" = 1'-0"



A1 LEVEL 04 AREA B OFFICES 475, 476, 477, 478, 479, 480
3/8" = 1'-0"

12/16/2020 9:59:38 AM

1 2 3 4 5 6

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. CERT NO. 00417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME:
INTERIOR STOREFRONT

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-626

GMP SET

ARCH- MATERIAL FINISHES

TAG	MANUFACTURER	STYLE/ PATTERN	PRODUCT COLOR	PRODUCT FINISH	PRODUCT SIZE	INSTALLATION	ADDITIONAL NOTES	CONTACT
_EXTERIOR								
PT1							EXTERIOR	
PT2							EXTERIOR	
CEILINGS								
ACT-1	ARMSTRONG	ULTIMA 1912	WHITE		24" x 24"			CAREY MCHAHAN, CBMCMAHAN@ARMSTRONGCEILINGS.COM; 919.201.1196
ACT-2	ARMSTRONG	OPTIMA 3252	WHITE		24" x 48"			CAREY MCHAHAN, CBMCMAHAN@ARMSTRONGCEILINGS.COM; 919.201.1196
ACT-3	ARMSTRONG	OPTIMA 3154	WHITE		48" x 96"			CAREY MCHAHAN, CBMCMAHAN@ARMSTRONGCEILINGS.COM; 919.201.1196
ACT-4	ARMSTRONG	OPTIMA 1414	WHITE		12" x 96"			CAREY MCHAHAN, CBMCMAHAN@ARMSTRONGCEILINGS.COM; 919.201.1196
ACT-5	ARMSTRONG	CALLA	CUSTOM		24"x 96"		CUSTOM COLOR GRID TO MATCH	CAREY MCHAHAN, CBMCMAHAN@ARMSTRONGCEILINGS.COM; 919.201.1196
FLOORING- BASE								
PTB-1	ATLAS CONCORDE USA	MARINE	SHORE		6"x12" COVE BASE		W/ PTF-3	MOSAIC TILE CO- ANN HARTLY, AHARTLEY@MOSAICTILECO.COM ; 919.602.6125
PTB-2	DELCONCA USA	TUDOR STONE	TU 05 GRAY		6"x24"	W/ SCHLUTER SCHIENE TRIM	LOBBY	MOSAIC TILE CO- ANN HARTLY, AHARTLEY@MOSAICTILECO.COM ; 919.602.6125
RBS-1	TARKETT	4" TRADITIONAL RUBBER BASE					W/ CPT-1, CPT-4, CPT-S, LVT-1	LISA ELLIS, LISA.ELLIS@TARKETT.COM ; 919.606.6639
RBS-2	TARKETT	4" TRADITIONAL RUBBER BASE					W/ CPT-3	LISA ELLIS, LISA.ELLIS@TARKETT.COM ; 919.606.6639
RBS-3	TARKETT	4" TRADITIONAL RUBBER BASE	BLACK		4"		MEDIA 143	LISA ELLIS, LISA.ELLIS@TARKETT.COM ; 919.606.6639
FLOORING- CARPET								
CPT-1	SHAW	NOBLE MATERIALS- SLAB TILE 5T133	FORGE 33518		24" x 24"			BRETT TOMPKINS, BRETT.TOMPKINS@SHAWCONTRACT.COM ; 919.524.8809
CPT-2	MILLIKEN	OBEX- CUT/DRIFT	173 GREY		50cm x 50cm			SUSAN FARRELL, SUSAN.FARRELL@MILLIKEN.COM ; 919.812.7448
CPT-3	BENTLEY	OUTLIER			12' 6"	BROADLOOM - NOSING = TBD	STAIRS	CHRISTY BENNETT, CHRISTY.BENNETT@BENTLEYMILLS.COM ; 336.676.2935
CPT-4	SHAW	NOBLE MATERIALS- FORM TILE 5T136	FORGE PLATINUM 33518		24" x 24"			BRETT TOMPKINS, BRETT.TOMPKINS@SHAWCONTRACT.COM ; 919.524.8809
CPT-5	SHAW	NOBLE MATERIALS- ALCHEMY TILE 51T35	FORGE PLATINUM 33518		24" x 24"			BRETT TOMPKINS, BRETT.TOMPKINS@SHAWCONTRACT.COM ; 919.524.8809
CPT-6	MILLIKEN	OBEX- LOOP/ BARK	DARK GREY		50cm x 50cm		WALK OFF IN ENTRY VESTIBULES	SUSAN FARRELL, SUSAN.FARRELL@MILLIKEN.COM ; 919.812.7448
CPT-7	PATCRAFT	ARTEFACT- PATINA	00450 WATERMARK		12" x 48"			MEGGHAN HOYT, MEGGHAN.HOYT@PATCRAFT.COM ; 202.288.5111
FLOORING- RESILIENT								
LVT-1	PATCRAFT	NATURAL STATE 1533V	00130 HONEY WALNUT		8.42" x 58.97"	STAGGER		MEGGHAN HOYT, MEGGHAN.HOYT@PATCRAFT.COM ; 202.288.5111
LVT-2	ARMSTRONG	NATURAL CREATIONS DIAMOND 10 TECHNOLOGY MYSTIX	ENGLISH GREY W/ BLUE HAWAIIAN/ BLUE LAGOON		18"X36"			KAYLA SADLER, KRSADLER@ARMSTRONGFLOORING.COM ; 919.410.9707
RSF-1	TARKETT	REPLAY	517 CLOUD 9		4' ROLL			LISA ELLIS, LISA.ELLIS@TARKETT.COM ; 919.606.6639
VCT-1	ARMSTRONG	IMPERIAL STANDARD EXCELON	PERFECT STORM 57551		12" x 12"			KAYLA SADLER, KRSADLER@ARMSTRONGFLOORING.COM ; 919.410.9707
VCT-2	ARMSTRONG	STATIC DISSIPATIVE TILE	51956 FOSSIL GRAY		12" x 12"			KAYLA SADLER, KRSADLER@ARMSTRONGFLOORING.COM ; 919.410.9707
FLOORING- TILE								
PTF-1	DELCONCA USA	TUDOR STONE	TU 05 GRAY	UNPOLISHED	12" x 24"	TBD	ALL TLTS	MOSAIC TILE CO- ANN HARTLY, AHARTLEY@MOSAICTILECO.COM ; 919.602.6125
PTF-2	ATLAS CONCORDE USA	MARINE	SHORE		12" x 24"	STACK	ELEVATOR	MOSAIC TILE CO- ANN HARTLY, AHARTLEY@MOSAICTILECO.COM ; 919.602.6125
PTF-3	ATLAS CONCORDE USA	MARINE	SHORE		24" x 48"	TBD	LOBBY	MOSAIC TILE CO- ANN HARTLY, AHARTLEY@MOSAICTILECO.COM ; 919.602.6125
PTF-4	DELCONCA USA	TUDOR STONE	TU 05 GRAY		12" x 12" MOSAIC	TBD	ALL SHOWERS	MOSAIC TILE CO- ANN HARTLY, AHARTLEY@MOSAICTILECO.COM ; 919.602.6125
MILLWORK								
ACR-1	3FORM	MERIDIAN	CARBON		4' x 8' PANELS	PATTERN RUNS HORIZONTAL	FRY REGLET TRIM NEEDED AT ALL CORNERS	ASHLEY BARBOUR, ASHLEY.BARBOUR@3-FORM.COM ; 919.594.8317
PLM-1	FORMICA	949-58	WHITE	MATTE	--		WORK ROOM/ STORAGE/ PRODUCTION 142, JIC 280, JCC 287 COUNTERTOPS	SHERI REID, SHERI.REID@FORMICA.COM ; 704.534.7300
PLM-2	(tbd- WOOD LOOK)				--		WORK ROOM/ STORAGE CABINETS	
PLM-3					--		CLINIC- COUNTERTOP	
PLM-4					--		CLINIC- VERTICAL SURFACE	
PLM-5				GLOSS	--		CLINIC- RECEPTION ACCENT	
PLM-6	FORMICA	9512-34	LAYERED WHITE SAND	SCOVATO FINISH	--		MINI HUB/ COFFEE/ KITCHEN COUNTERTOP	SHERI REID, SHERI.REID@FORMICA.COM ; 704.534.7300
PLM-7	NEVAMAR	S-6020T	GUNMETAL	MATTE	--		HUB / MINI HUB PERIMETER CABINETS	APRIL BRICKLE, BRICKLA@WILSONART.COM ; 540.537.3431
PLM-8	WILSONART	D321-60	BRITTANY BLUE	MATTE	--		HUB/ MINI HUB ISLAND ACCENT	APRIL BRICKLE, BRICKLA@WILSONART.COM ; 540.537.3431
QSS-1	CORIAN	QUARTZ	COARSE CARRARA	--	--		TRANSACTION / CASHIER & TRAINING COUNTERTOP	C.H.BRIGGS CO- BARBARA DAVIS, BDAVIS@CHBRIGGS.COM ; 704.301.8078
QSS-2	CORIAN	QUARTZ	STRATUS WHITE	--	--		PUBLIC TLT COUNTERTOPS	C.H.BRIGGS CO- BARBARA DAVIS, BDAVIS@CHBRIGGS.COM ; 704.301.8078
QSS-3	CORIAN	QUARTZ	GEO GRIGIO	--	--		CONF/ TRAINING	C.H.BRIGGS CO- BARBARA DAVIS, BDAVIS@CHBRIGGS.COM ; 704.301.8078
SSM-1	CORIAN	SOLID SURFACE	LIMESTONE PRIMA	--	--		HUB COUNTERTOPS	C.H.BRIGGS CO- BARBARA DAVIS, BDAVIS@CHBRIGGS.COM ; 704.301.8078
SSM-2	CORIAN	SOLID SURFACE	VENERA WHITE	--	--		EMPLOYEE TLTS	C.H.BRIGGS CO- BARBARA DAVIS, BDAVIS@CHBRIGGS.COM ; 704.301.8078
SPECIALTIES								
PLM-10	tbd by selected manufactuer	PLASTIC LAMINATE					LOCKERS	
TPT-1	tbd	PLASTIC LAMINATE					TLT PARTITIONS	
WALLS								
PNT-1				FLAT			GWB CEILINGS	
PNT-2				EGGSHELL			FIELD COLOR	
PNT-3				EGGSHELL			LOBBY ACCENT (DARK GREY)	
PNT-4				EGGSHELL			LOBBY ACCENT	
PNT-5				EGGSHELL			TLT/ LOCKER & SHOWER	
PNT-6	SHERWIN WILLIAM	SW 6258	TRICORN BLACK	EGGSHELL			MEDIA	
PNT-7				EGGSHELL			COLLABORATION CORE ACCENT	
PNT-9							911 CENTER/ EOC	
WALLS- TILE								
PTW-1	DELCONCA USA	TUDOR STONE	TU 05 GRAY		12" x 24"		TLT WALL 5'-0" ALL TLTS	MOSAIC TILE CO- ANN HARTLY, AHARTLEY@MOSAICTILECO.COM ; 919.602.6125
PTW-2	BEST TILE	SHIMMER- ELONGATED HEXAGON	COBALT		3" x 6" ELONGATED HEXAGON		VANITY WALL ALL TLTS/ SHWR ACCENT	NANCY PETERS, NPETERS@BESTTILE.COM ; 919.986.6256
WALLS- WALLCOVERING								
WCV-1	WOLF GORDON	WONDERWOODS	TBD			LEVEL 5 FINISH REQ'D IN ALL LOCATIONS	SEE FLOOR FINISH PLANS FOR LOCATIONS	HAYLEY WRIGHT, HAYLEY.WRIGHT@WOLFGORDON.COM ; 919.280.6824
WALLS- WOOD								
WWP-1	RULON	PANEL GRILLE	CUSTOM STAIN		TBD			CAREY MCHAHAN, CBMCMAHAN@ARMSTRONGCEILINGS.COM; 919.201.1196

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ACTUAL DRAWING SCALE

12/16/2020 9:59:44 AM

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 50417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY
GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

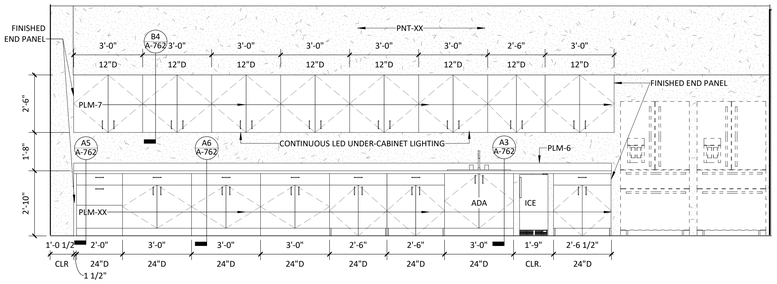
SHEET NAME:
MATERIAL FINISHES

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

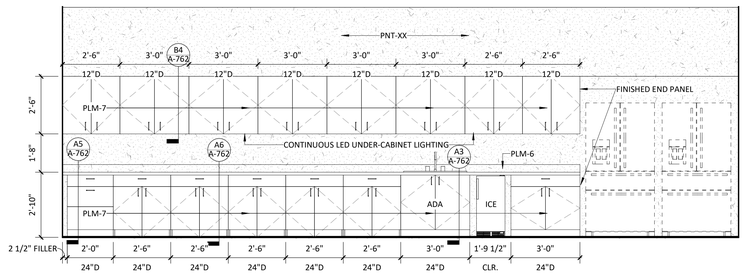
SHEET:
A-700

GMP SET

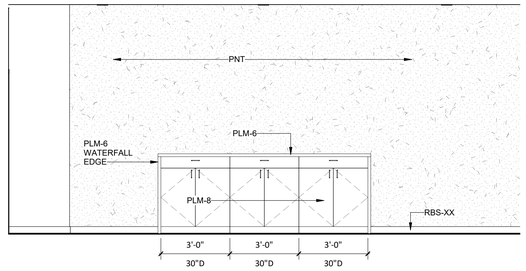
SEE SHEET A-401 FOR MOUNTING HEIGHTS



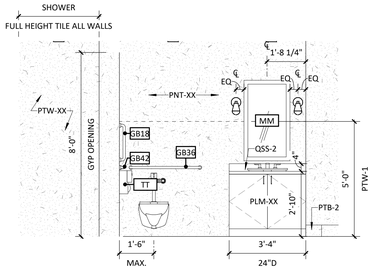
E1 INT ELEV - MINI HUB 321 SOUTH
3/8" = 1'-0"



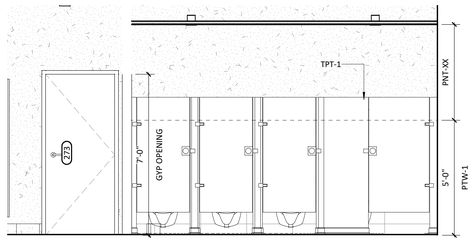
E3 INT ELEV - MINI HUB 421 SOUTH
3/8" = 1'-0"



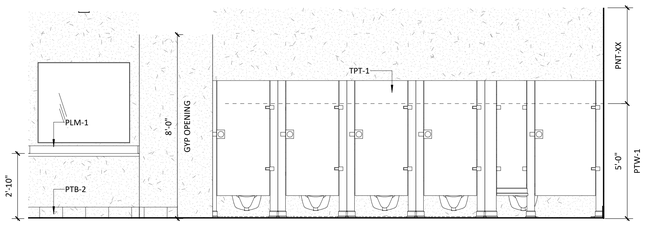
E5 INT ELEV - TYP. MINI HUB ISLAND
3/8" = 1'-0"



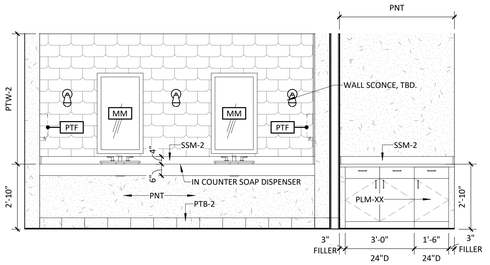
D1 INT ELEV - TLT & SHOWER 452
3/8" = 1'-0"



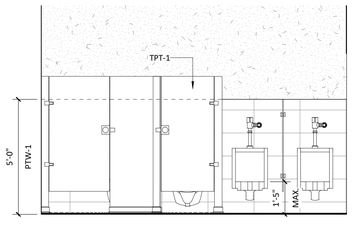
D2 INT ELEV - WOMEN'S TLT 273 WEST
3/8" = 1'-0"



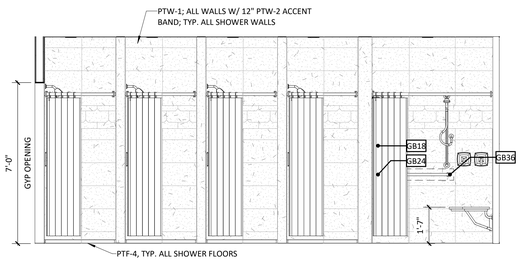
D3 INT ELEV - WOMEN'S TLT 179 NORTH
3/8" = 1'-0"



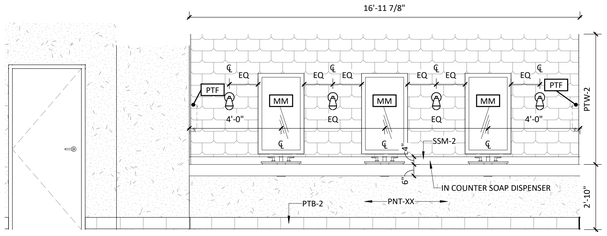
D5 INT ELEV - WOMEN'S TLT 273 EAST
3/8" = 1'-0"



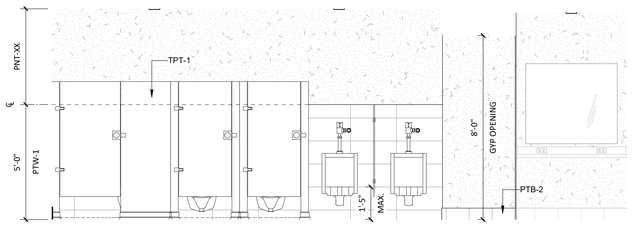
C1 INT ELEV - MEN'S TLT 274 WEST
3/8" = 1'-0"



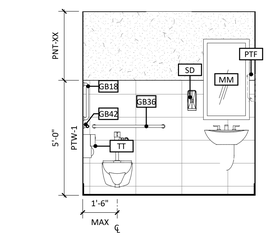
C2 INT ELEV - MEN'S LOCKER RM 160
3/8" = 1'-0"



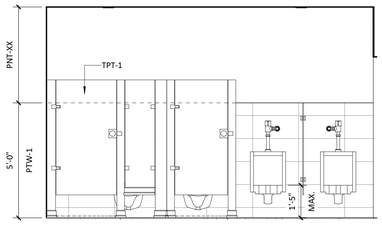
C3 INT ELEV - MEN'S TLT 159 NORTH/ WOMEN'S TLT179 SOUTH
3/8" = 1'-0"



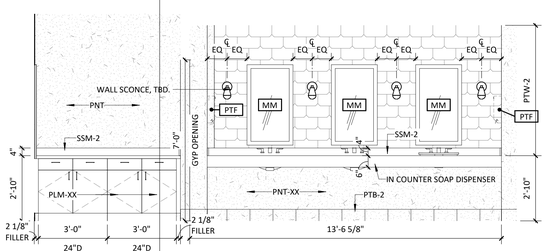
C5 INT ELEV - MEN'S TLT 159 SOUTH
3/8" = 1'-0"



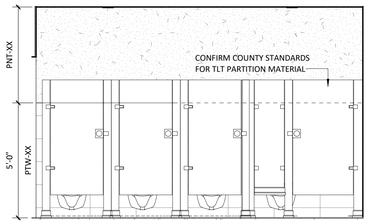
B1 INT ELEV - CLINIC TLT 154I S
3/8" = 1'-0"



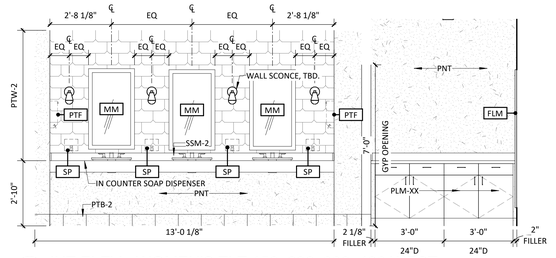
B2 INT ELEV - WOMEN'S TLT 149 WEST
3/8" = 1'-0"



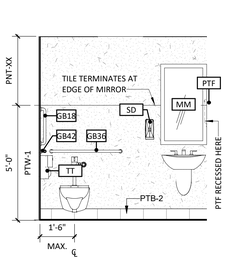
B3 INT ELEV - MEN'S TLT 149 EAST
3/8" = 1'-0"



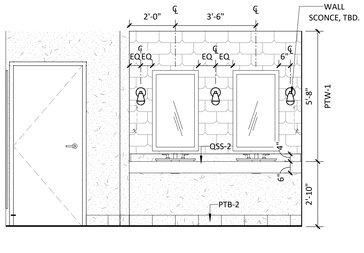
B4 INT ELEV - MEN'S TLT 150 EAST
3/8" = 1'-0"



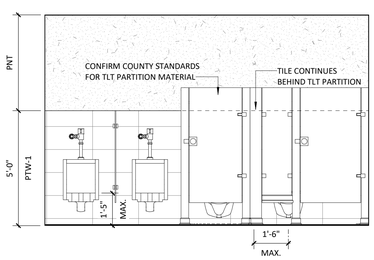
B5 INT ELEV - WOMEN'S TLT 150, 236, 336, 436 WEST
3/8" = 1'-0"



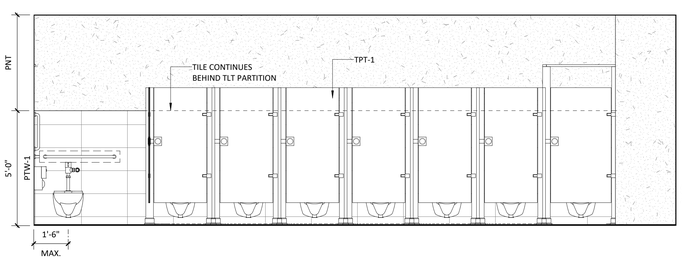
A1 INT ELEV - TLT 129 EAST
3/8" = 1'-0"



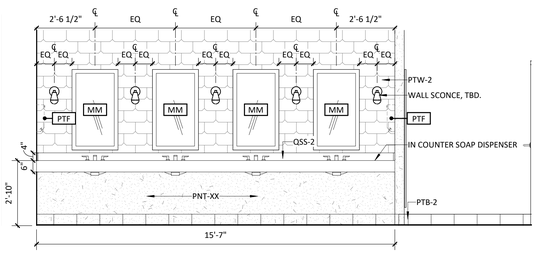
A2 INT ELEV - MEN'S TLT 128 EAST
3/8" = 1'-0"



A3 INT ELEV - MEN'S TLT 128 WEST
3/8" = 1'-0"



A4 INT ELEV - WOMEN'S TOILET 130 SOUTH
3/8" = 1'-0"



A5 INT ELEV - WOMEN'S TLT 130 NORTH
3/8" = 1'-0"

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. CERT NO. 50417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	TI- DESIGN DEVELOPMENT
B	2020.11.20	TI GMP SET
C	2020.12.16	GMP SET

SHEET NAME:
INTERIOR ELEVATIONS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-710

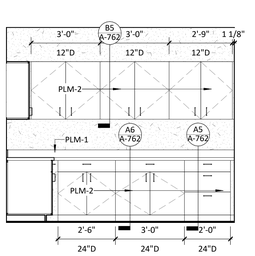
GMP SET

12/16/2020 10:00:09 AM

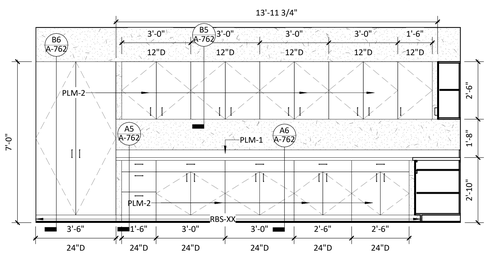
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE SCALE SHOWN ON THIS SHEET

1 2 3 4 5 6

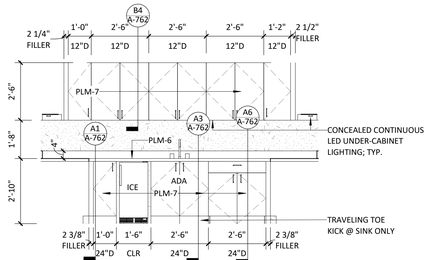
A B C D E



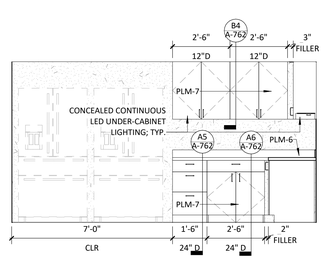
E1 INT ELEV - MAIL ROOM 227 EAST
3/8" = 1'-0"



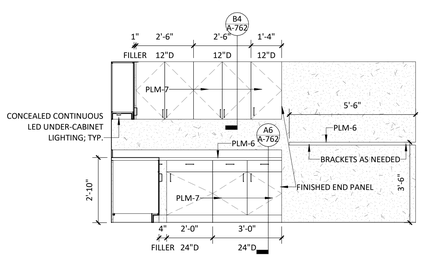
E2 INT ELEV - MAIL ROOM 227 NORTH
3/8" = 1'-0"



E3 INT ELEV - COFFEE/ HOTEL 277 EAST
3/8" = 1'-0"

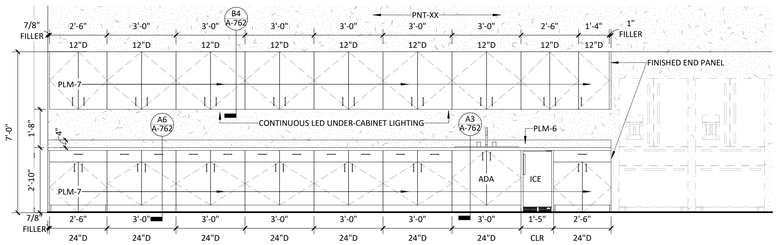


E4 INT ELEV - COFFEE/ HOTEL 277 NORTH
3/8" = 1'-0"

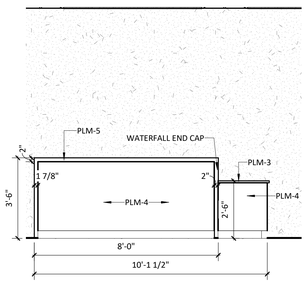


E5 INT ELEV - COFFEE/ HOTEL 277 SOUTH
3/8" = 1'-0"

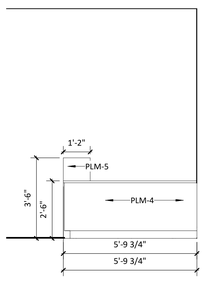
SEE SHEET A-401 FOR MOUNTING HEIGHTS



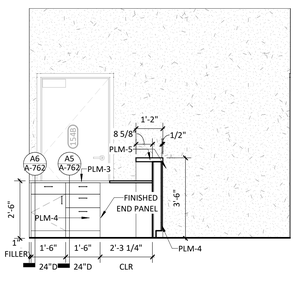
D1 INT ELEV - MINI HUB 221/ 421 SOUTH
3/8" = 1'-0"



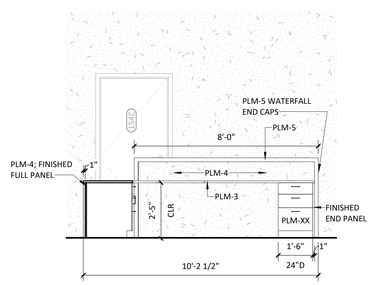
D2 INT ELEV - RECEP 154A DESK N
3/8" = 1'-0"



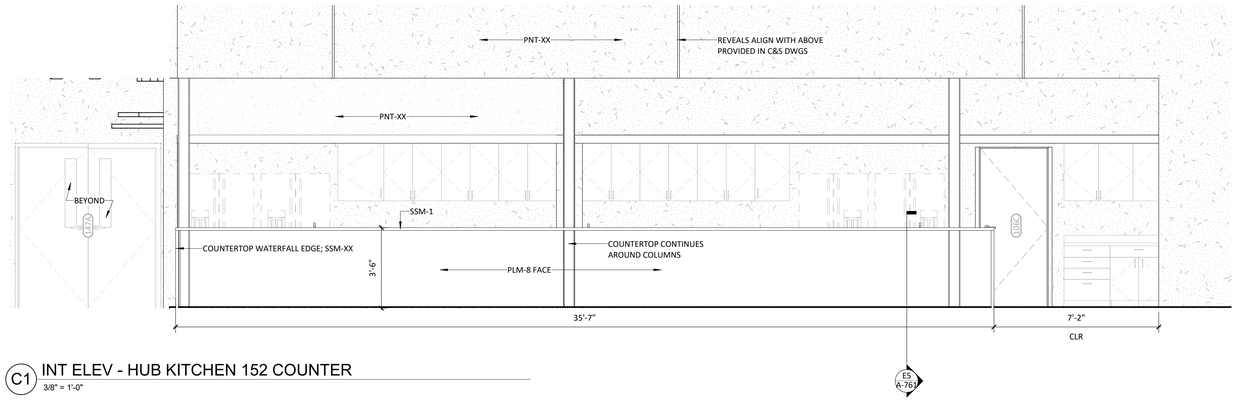
D3 INT ELEV - RECEP 154A DESK W
3/8" = 1'-0"



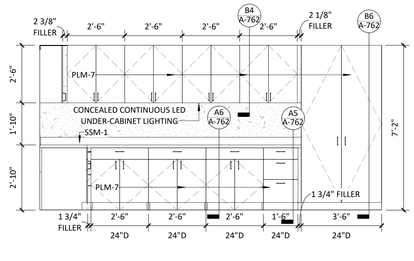
D4 INT ELEV - RECEP 154A DESK E
3/8" = 1'-0"



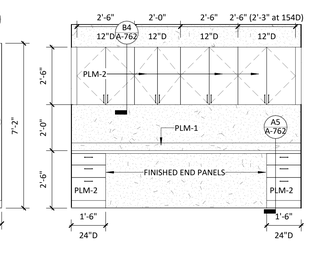
D5 INT ELEV - RECEP 154A DESK S
3/8" = 1'-0"



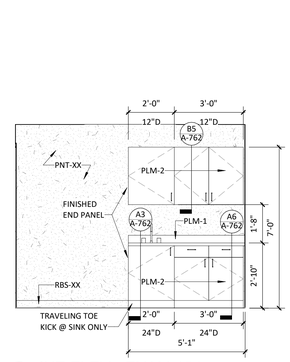
C1 INT ELEV - HUB KITCHEN 152 COUNTER
3/8" = 1'-0"



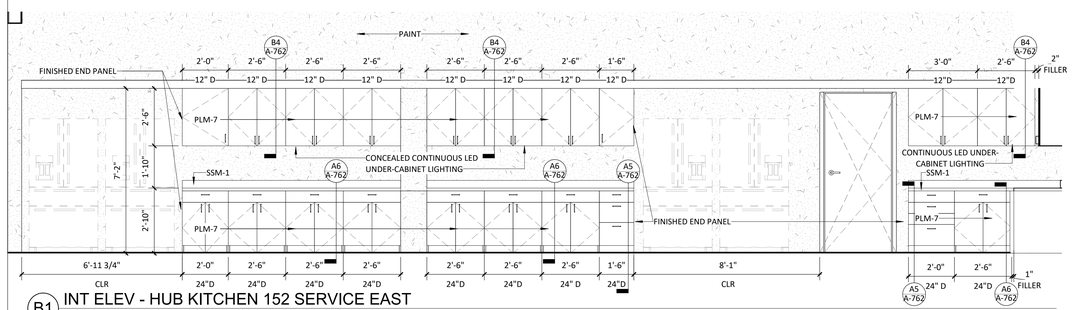
C3 INT ELEV - HUB KITCHEN 152 SOUTH
3/8" = 1'-0"



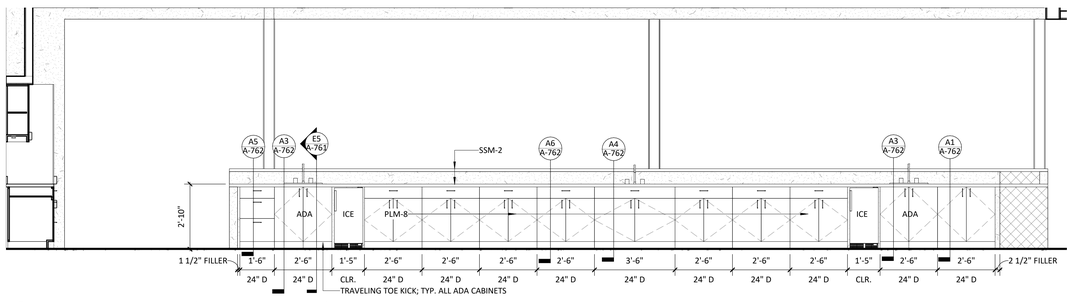
C4 INT ELEV - NURSE 154E & 154D
3/8" = 1'-0"



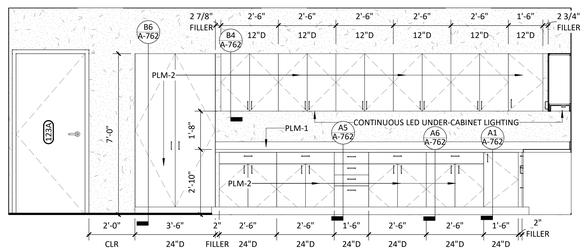
C5 INT ELEV - EXAM 154
3/8" = 1'-0"



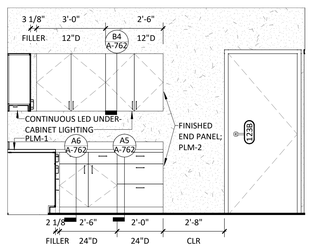
B1 INT ELEV - HUB KITCHEN 152 SERVICE EAST
3/8" = 1'-0"



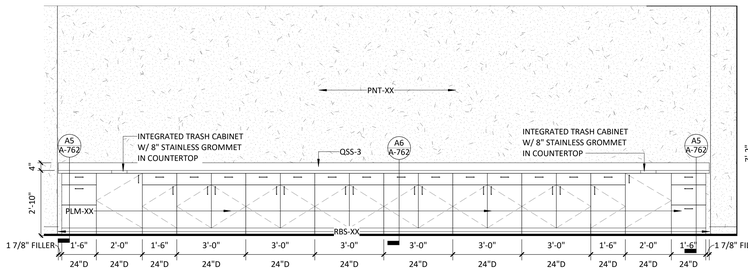
B3 INT ELEV - HUB KITCHEN 152 SERVICE WEST
3/8" = 1'-0"



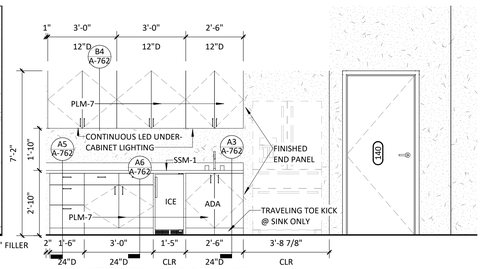
A1 INT ELEV - SHARED HUB 123 EAST
3/8" = 1'-0"



A2 INT ELEV - SHARED HUB 123 SOUTH
3/8" = 1'-0"



A3 INT ELEV - TRAINING 136
3/8" = 1'-0"



A5 INT ELEV - CORR 147B
3/8" = 1'-0"

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL CORPORATION CERT NO. 50417 WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	TI- DESIGN DEVELOPMENT
B	2020.11.20	TI GMP SET
C	2020.12.16	GMP SET

SHEET NAME:
INTERIOR ELEVATIONS

ORIG SUBMISSION:
CURRENT: 2020.12.16
GMP SET

SHEET:
A-711

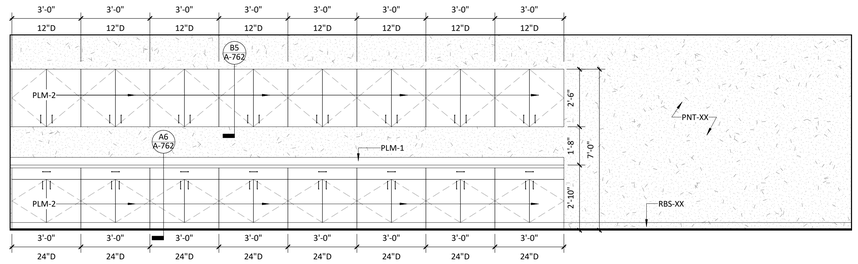
GMP SET

12/16/2020 10:00:30 AM

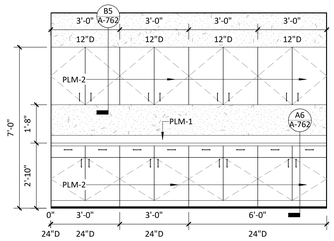
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ARCH E SHEET SIZE

E
D
C
B
A

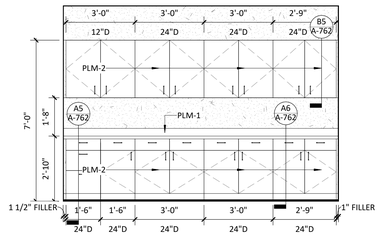
1 2 3 4 5 6



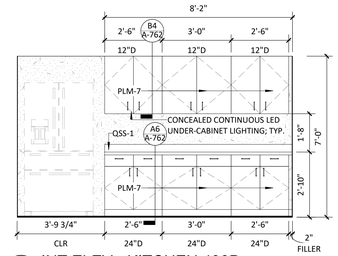
E1 INT ELEV - WORKROOM/ STORAGE 259
3/8" = 1'-0"



E3 INT ELEV - PLOTTER/ COPY 343
3/8" = 1'-0"

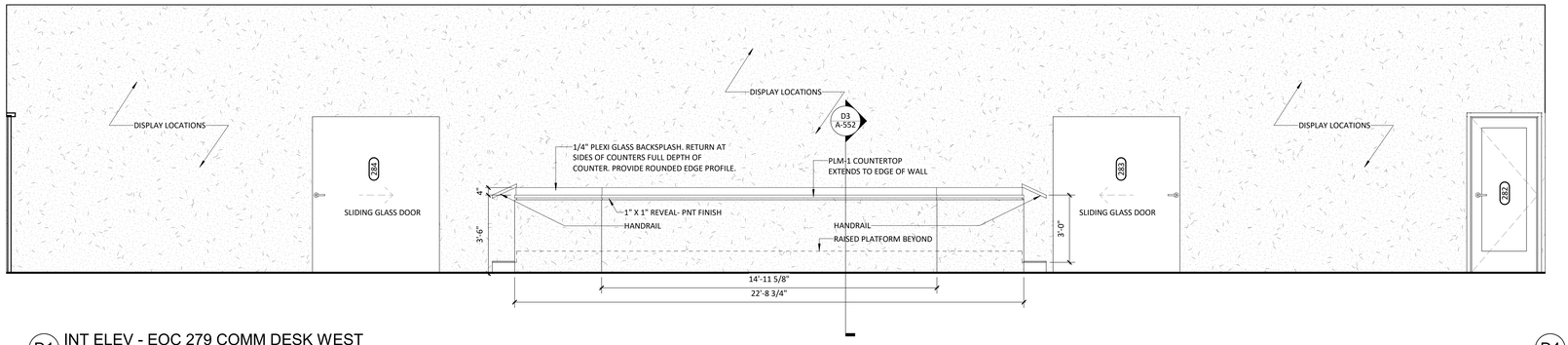


E4 INT ELEV - WORK/PRINT 438E
3/8" = 1'-0"

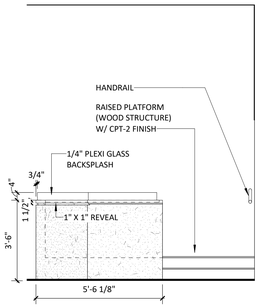


E5 INT ELEV - KITCHEN 438D
3/8" = 1'-0"

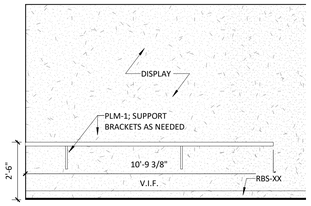
SEE SHEET A-401 FOR MOUNTING HEIGHTS



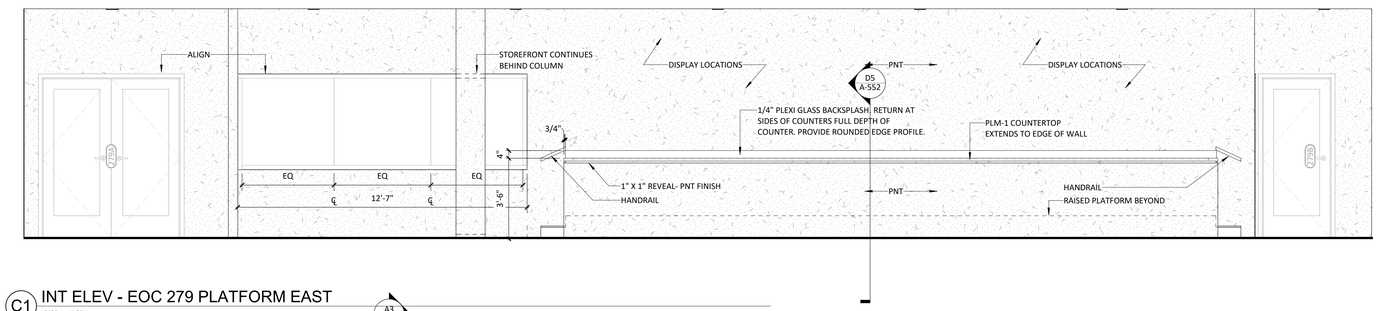
D1 INT ELEV - EOC 279 COMM DESK WEST
3/8" = 1'-0"



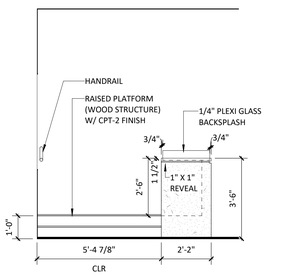
D4 INT ELEV - EOC 279 COMM DESK S
3/8" = 1'-0"



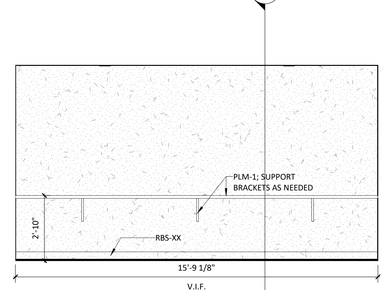
D5 INT ELEV - JIC 280 SOUTH
3/8" = 1'-0"



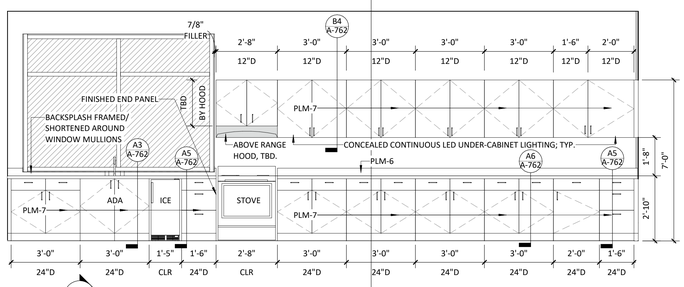
C1 INT ELEV - EOC 279 PLATFORM EAST
3/8" = 1'-0"



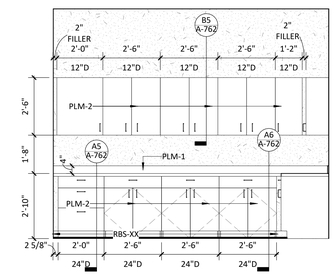
C4 INT ELEV - EOC 279 PLATFORM S
3/8" = 1'-0"



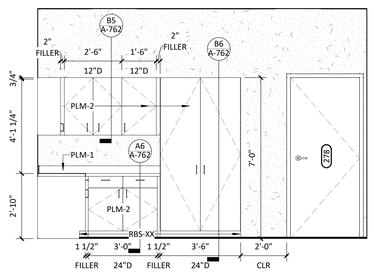
C5 INT ELEV - JCC 287 SOUTH
3/8" = 1'-0"



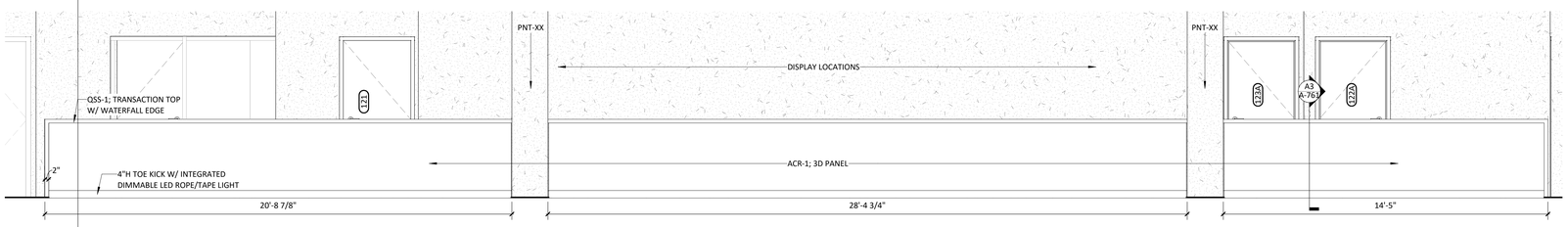
B1 INT ELEV - KITCHEN 171 NORTH
3/8" = 1'-0"



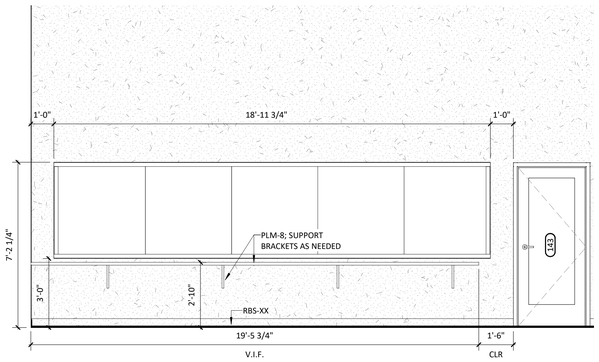
B2 INT ELEV - COPY/PRINT 278 EAST
3/8" = 1'-0"



B3 INT ELEV - COPY/PRINT 278 SOUTH
3/8" = 1'-0"



A1 INT. ELEV. - LOBBY A 120 WEST
3/8" = 1'-0"



A5 INT ELEV - PRODUCTION 142 NORTH
3/8" = 1'-0"

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	TI- DESIGN DEVELOPMENT
B	2020.11.20	TI GMP SET
C	2020.12.16	GMP SET

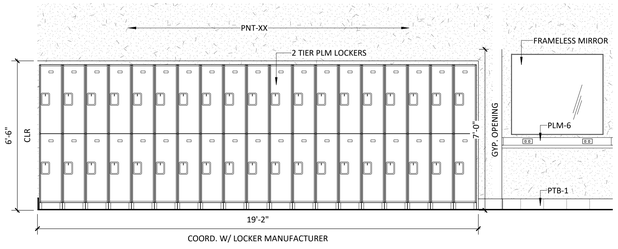
SHEET NAME:
INTERIOR ELEVATIONS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

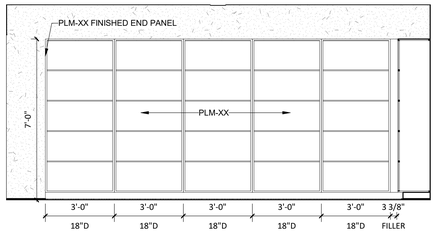
SHEET:
A-712

GMP SET

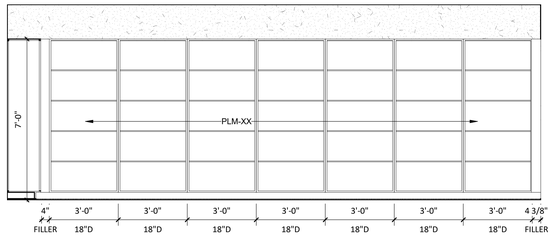
12/16/2020 10:00:47 AM



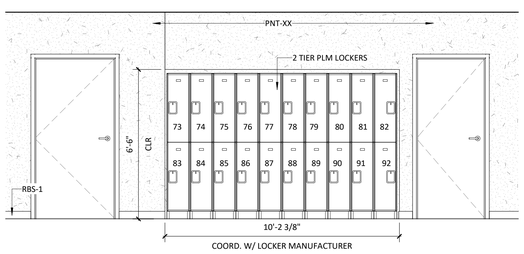
7 INT ELEV - TYP. LOCKERS @ LOCKER ROOM
3/8" = 1'-0"



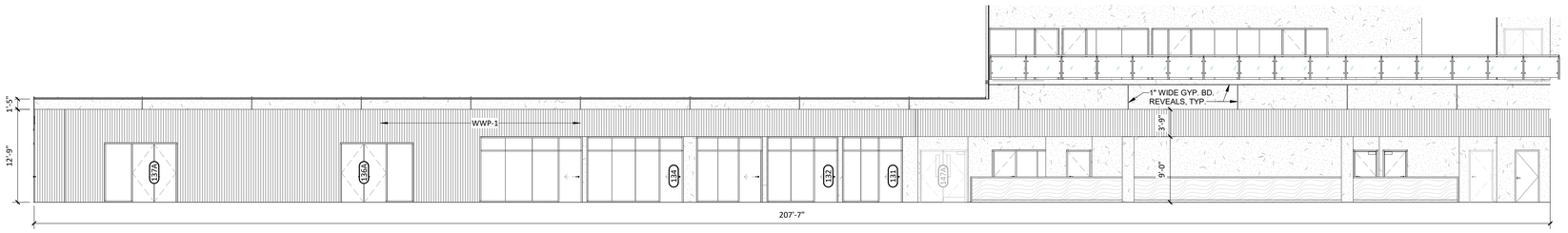
4 INT ELEV - LG CONF 424 SOUTH
3/8" = 1'-0"



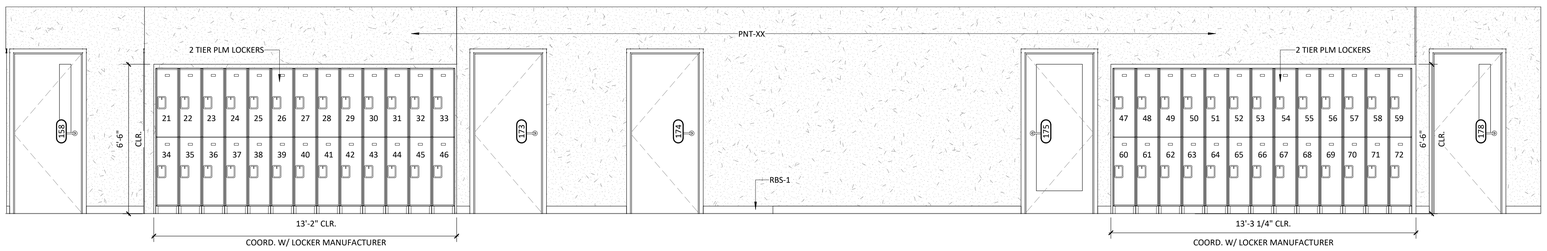
5 INT ELEV - LG CONF 424 WEST
3/8" = 1'-0"



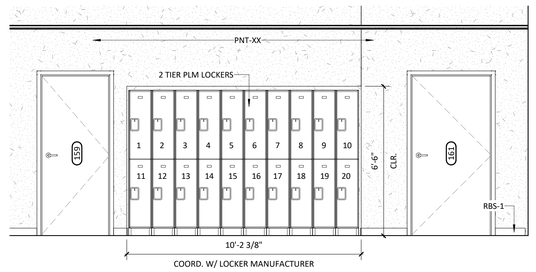
3 INT ELEV - CORR 178 NORTH
3/8" = 1'-0"



6 INT ELEV - LOBBY ACCENT WALL EAST
1/8" = 1'-0"



1 INT ELEV - CORR 162 EAST
3/8" = 1'-0"



2 INT ELEV - CORR 158 SOUTH
3/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 10:01:06 AM

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WWW.LS3P.COM

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	11 GMP SET
B	2020.12.16	GMP SET

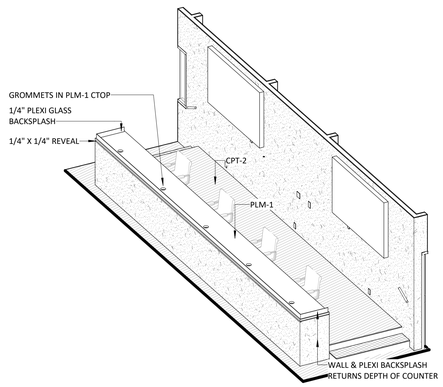
SHEET NAME:
INTERIOR ELEVATIONS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

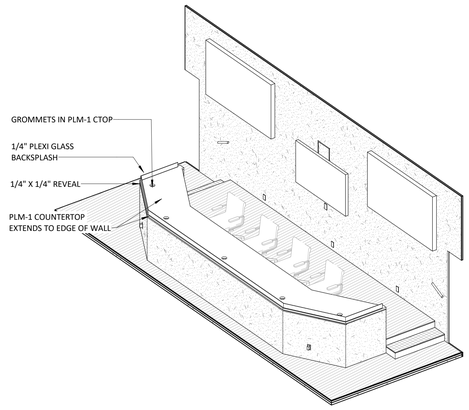
SHEET:
A-713

GMP SET

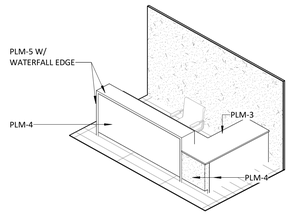
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



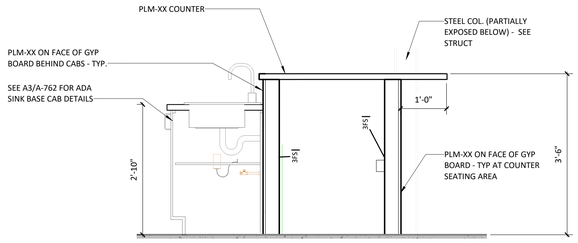
C1 3D VIEW- EOC 279 PLATFORM DESK



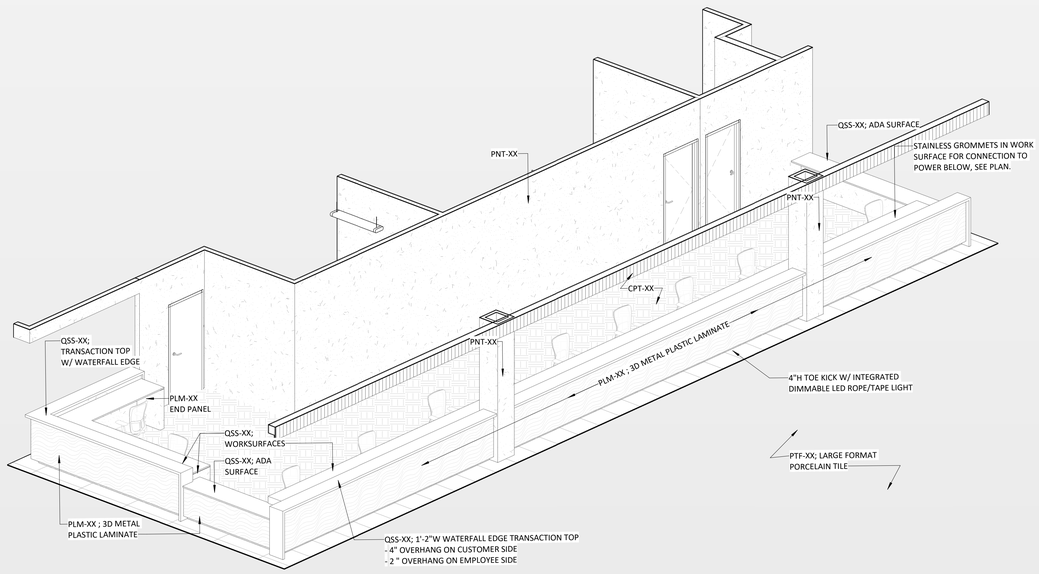
C3 3D VIEW- EOC 279 COMMAND PLATFORM DESK



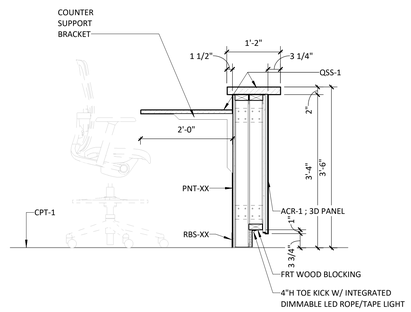
C4 3D VIEW- CLINIC RECEPTION 154



E5 MILWORK SECTION - HUB KITCHEN 152
3/4" = 1'-0"



A1 3D VIEW- CUSTOMER SERVICE/ CASHIER 121A DESK



A3 SECTION- CUSTOMER SERVICE/ CASHIER 121A DESK
3/4" = 1'-0"

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.10.16	TI- DESIGN DEVELOPMENT
B	2020.11.20	TI GMP SET
C	2020.12.16	GMP SET

SHEET NAME:
MILLWORK 3D VIEWS AND SECTIONS

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-761

GMP SET

12/16/2020 10:01:18 AM

E D C B A

1 2 3 4 5 6

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

B1 / A-762	TRASH RECEPTACLE	1" = 1'-0"



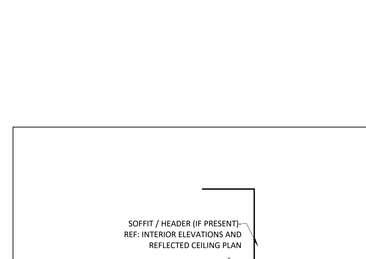
A1 / A-762	BASE CAB - CORNER	1" = 1'-0"

A2 / A-762	ADA LAVATORY BASE	1" = 1'-0"

A3 / A-762	ADA SINK BASE	1" = 1'-0"

A4 / A-762	SINK BASE - TYPICAL	1" = 1'-0"

A5 / A-762	DRAWER BASE - TYPICAL	1" = 1'-0"



A6 / A-762	BASE CAB - TYPICAL	1" = 1'-0"

B6 / A-762	FULL HEIGHT CAB - TYP.	1" = 1'-0"

B4 / A-762	UPPER CAB W/ LIGHT	1" = 1'-0"

B5 / A-762	UPPER CAB - TYPICAL	1" = 1'-0"

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NEW HANOVER COUNTY GOVERNMENT CENTER

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME:
MILLWORK SECTIONS

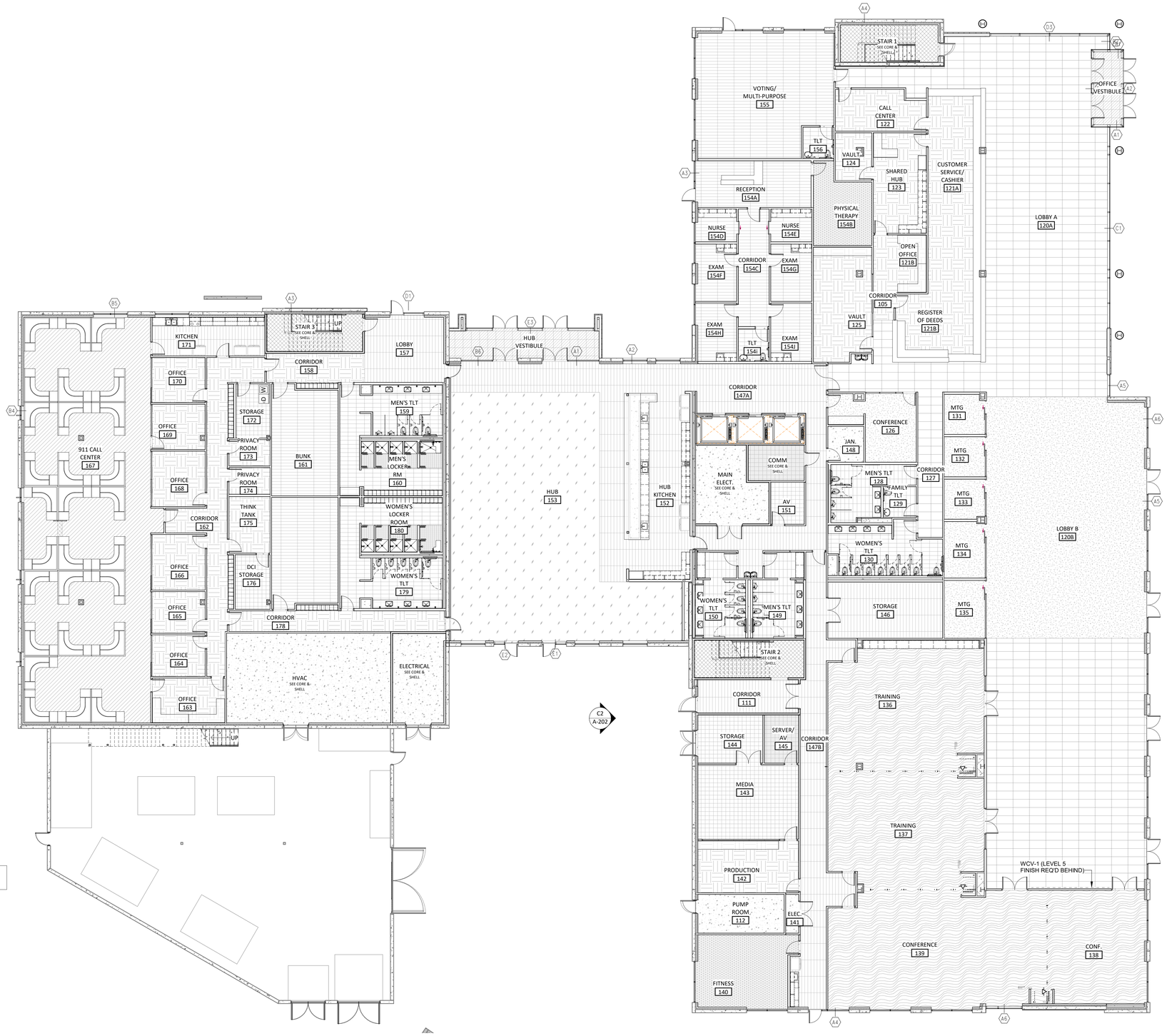
ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-762

GMP SET

12/16/2020 10:01:22 AM

1 2 3 4 5 6



LEGEND- FLOOR FINISH PLAN

- CPT-1
- CPT-2
- CPT-3
- CPT-4
- CPT-5
- CPT-6
- CPT-7
- LVT-1
- RSF-1
- VCT-1
- VCT-2
- PTF-1
- PTF-2
- PTF-3
- PTF-4
- LVT-2

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 10:01:37 AM

A1 / A-801 **FINISH PLAN- LEVEL 1** — 3/32" = 1'-0"

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NEW HANOVER COUNTY GOVERNMENT CENTER

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

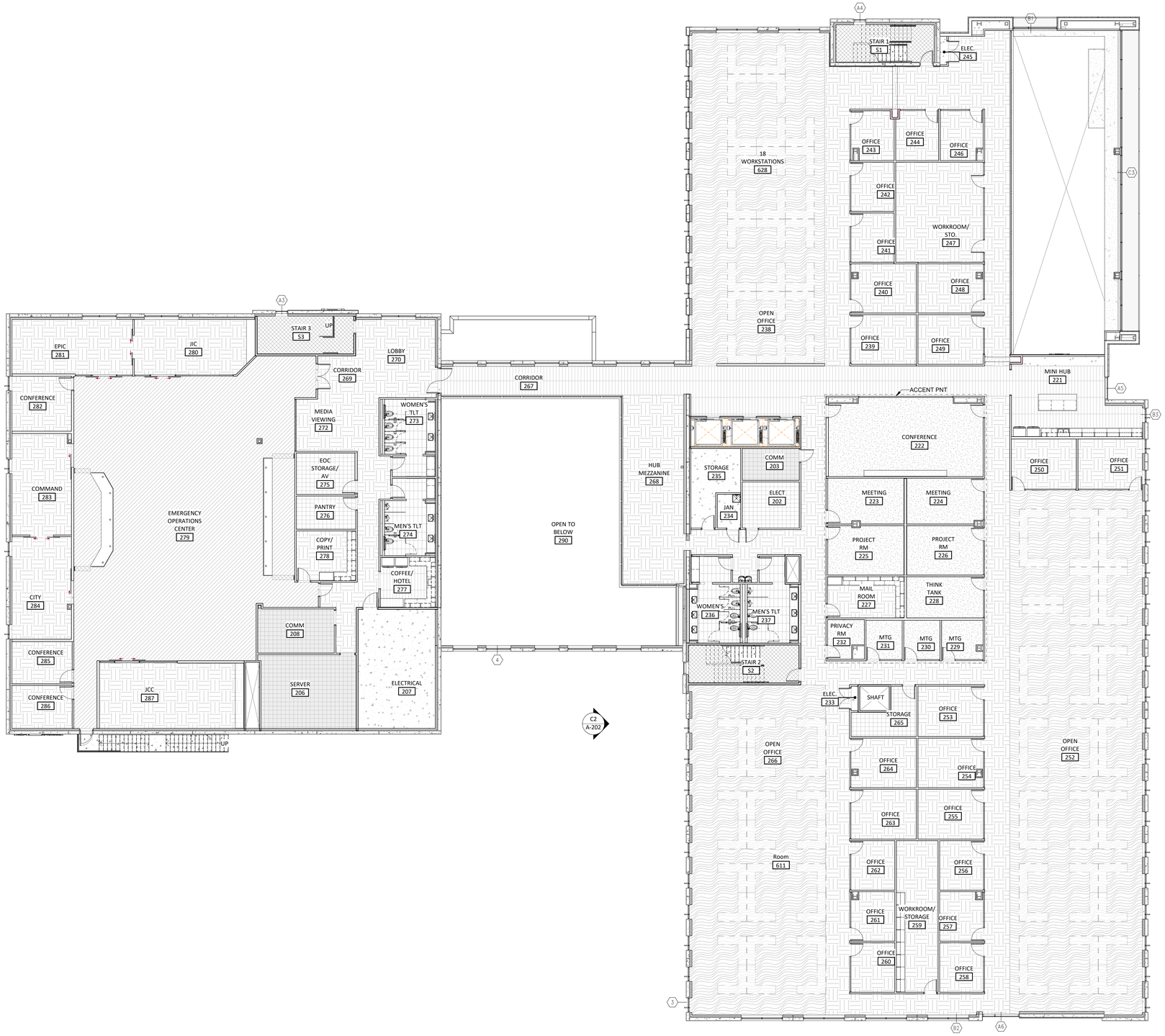
Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME: FINISH PLAN- LEVEL 1

ORIG SUBMISSION: - -
CURRENT: 2020.12.16 GMP SET

SHEET: **A-801**

GMP SET



LEGEND- FLOOR FINISH PLAN

- CPT-1
- CPT-2
- CPT-3
- CPT-4
- CPT-5
- CPT-6
- CPT-7
- LVT-1
- RSF-1
- VCT-1
- VCT-2
- PTF-1
- PTF-2
- PTF-3
- PTF-4
- LVT-2

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

12/16/2020 10:01:51 AM

A1 / A-802	FINISH PLAN- LEVEL 2	3/32" = 1'-0"

CAPE FEAR FD STONEWATER

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LS3P ASSOCIATES LTD. REGISTERED ARCHITECTURAL COMPANY CERT NO. 50417 SCHOOLHOUSE WILMINGTON, NORTH CAROLINA

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

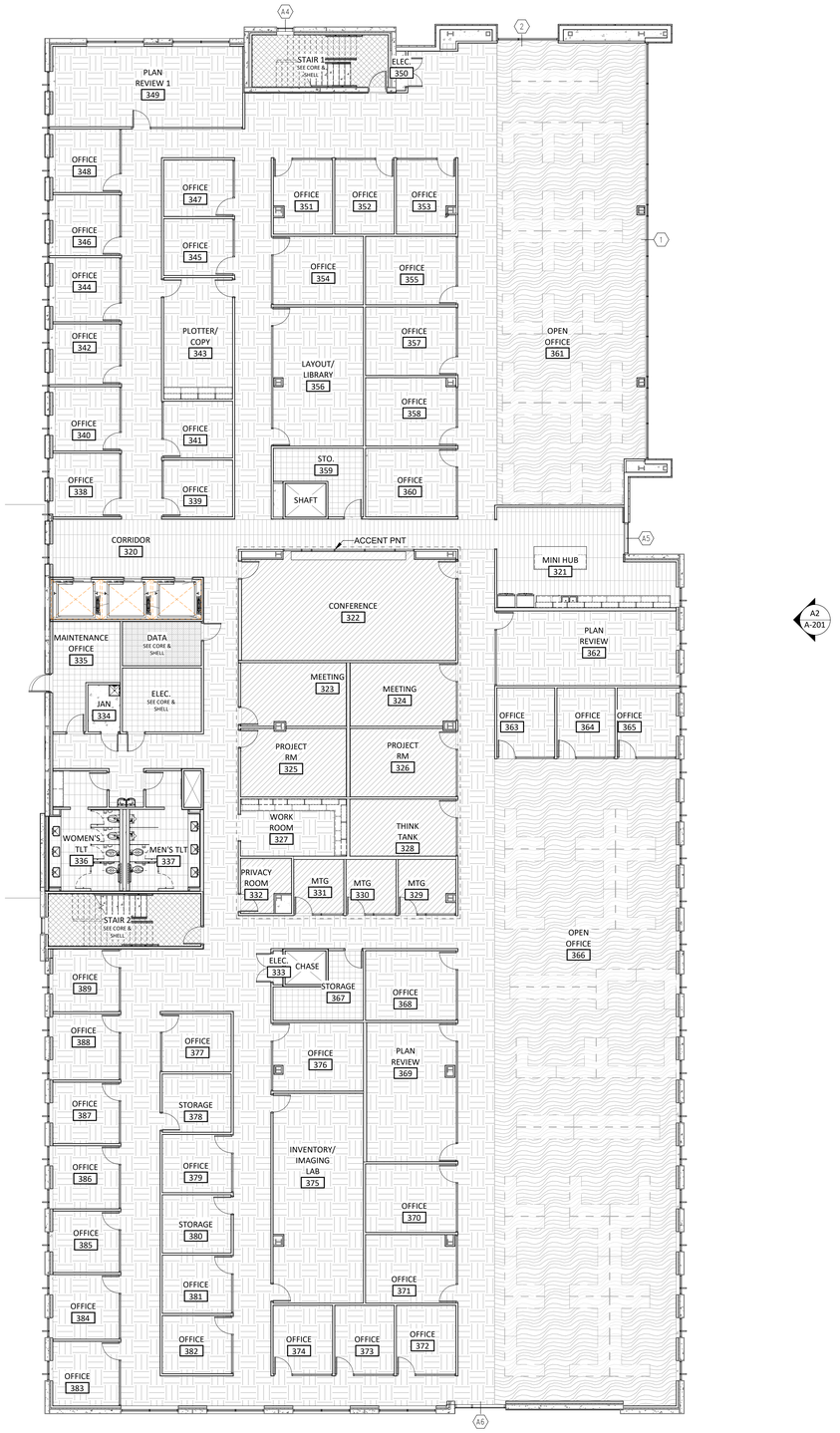
SHEET NAME:
FINISH PLAN- LEVEL 2

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-802

GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



LEGEND- FLOOR FINISH PLAN

- CPT-1
- CPT-2
- CPT-3
- CPT-4
- CPT-5
- CPT-6
- CPT-7
- LVT-1
- RSF-1
- VCT-1
- VCT-2
- PTF-1
- PTF-2
- PTF-3
- PTF-4
- LVT-2

12/16/2020 10:01:59 AM

A1 / A-803	FINISH PLAN- LEVEL 3	3/32" = 1'-0"

1 2 3 4 5 6

CAPE FEAR FD STONEWATER

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

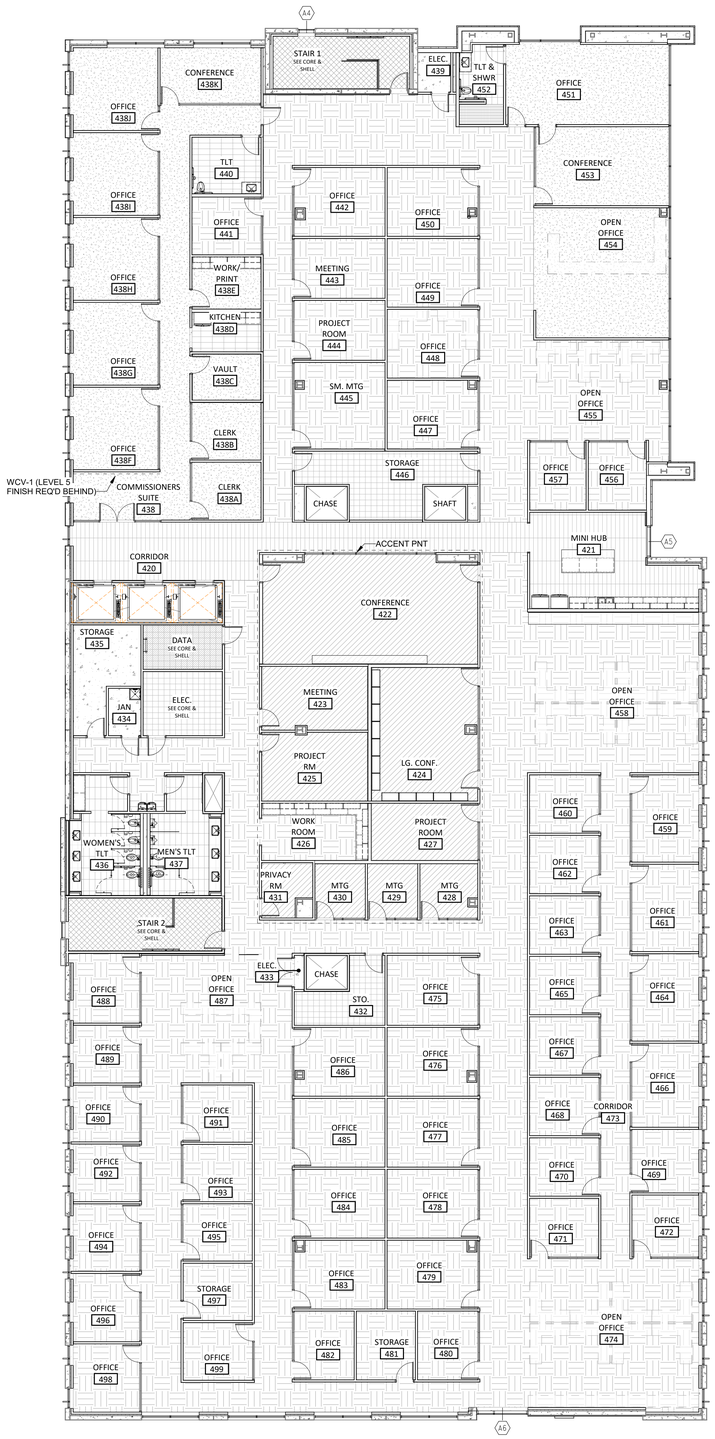
SHEET NAME:
FINISH PLAN- LEVEL 3

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET:
A-803

GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



LEGEND- FLOOR FINISH PLAN

- CPT-1
- CPT-2
- CPT-3
- CPT-4
- CPT-5
- CPT-6
- CPT-7
- LVT-1
- RSF-1
- VCT-1
- VCT-2
- PTF-1
- PTF-2
- PTF-3
- PTF-4
- LVT-2

12/16/2020 10:02:10 AM

A1 / A-804 **FINISH PLAN- LEVEL 4** 3/32" = 1'-0"

1 2 3 4 5 6

CAPE FEAR FD STONEWATER

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.11.20	TI GMP SET
B	2020.12.16	GMP SET

SHEET NAME: FINISH PLAN- LEVEL 4

ORIG SUBMISSION: - -
CURRENT: 2020.12.16
GMP SET

SHEET: **A-804**

GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

DUCTWORK AND AIR DISTRIBUTION

- 20X20 — DUCT (FIRST DIMENSION IS SIDE SHOWN IN INCHES)
- DUCT LINING (1" THICK UNLESS 2" NOTED)
- SUPPLY AIR DUCT SECTION
- RETURN OR OUTSIDE AIR DUCT SECTION
- EXHAUST AIR DUCT SECTION
- TRANSITION
- PRESS-ON COLLAR FITTING WITH ROUND FLEXIBLE DUCT AND DAMPER
- PRESS-ON COLLAR FITTING WITH ROUND RIGID DUCT AND DAMPER
- 90° BRANCH TAKEOFF
- RADIUS BRANCH TAKEOFF
- SP — STATIC PRESSURE SENSOR SENSING LOCATION
- RECTANGULAR OR FLAT OVAL DUCTWORK WITH CONICAL TAP AND FLAT OVAL OR ROUND BRANCH DUCT
- TRANSITION FROM RECTANGULAR TO ROUND DUCTWORK
- FS — MANUAL DAMPER (MD), BACKDRAFT DAMPER (BD), LOW LEAKAGE MANUAL DAMPER (LMD), OR CONTROL DAMPER (CD)
- MANUAL DAMPER
- FS — FIRE DAMPER (FD), 3 HOUR FIRE DAMPER (FD3), SMOKE DAMPER (SD), OR COMBINATION FIRE/SMOKE DAMPER (FS), HORIZONTAL POSITION. H DENOTES 286°F FUSIBLE LINKS.
- TURNING VANES
- 12X12 S-100 — SIDEWALL SUPPLY GRILLE OR REGISTER WITH SIZE, TYPE, AND CFM
- 12X12 R-100 — SIDEWALL RETURN OR EXHAUST GRILLE OR REGISTER WITH SIZE, TYPE, AND CFM
- 18X18 R-600 — CEILING RETURN OR EXHAUST GRILLE OR REGISTER WITH SIZE, TYPE, AND CFM
- 12"Ø S-600 — RIGID DUCT AND CEILING SUPPLY DIFFUSER WITH ROUND NECK SIZE, TYPE, AND CFM
- 12"Ø S-600 — FLEXIBLE DUCT AND CEILING SUPPLY DIFFUSER WITH ROUND NECK SIZE, TYPE, AND CFM
- A-B-C 330 — FLEXIBLE DUCT AND LINEAR DIFFUSER WITH LENGTH, TYPE, AND CFM. (A-SIZE; B-TYPE; C- ACTIVE LENGTH)
- 7"Ø S-LA 180 — RIGID DUCT AND 24" x 48" LAMINAR FLOW DIFFUSER WITH ROUND NECK SIZE AND CFM
- 7"Ø S-LA 180 — FLEXIBLE DUCT AND 24" x 48" LAMINAR FLOW DIFFUSER WITH ROUND NECK SIZE AND CFM
- AD — ACCESS DOOR, OPENING OUTWARD
- AD — ACCESS DOOR, OPENING INWARD
- 24" x 24" CEILING RETURN GRILLE (R-EG UNLESS NOTED OTHERWISE)
- TERMINAL UNIT WITH ELECTRIC REHEAT

CONTROLS AND SENSORS

- T — THERMOSTAT
- O — OXYGEN SENSOR
- T — TEMPERATURE SENSOR
- R — REFRIGERANT LEAK SENSOR
- N — NIGHT SETBACK THERMOSTAT
- H — HUMIDISTAT
- H — HUMIDITY SENSOR
- C — CARBON MONOXIDE SENSOR
- G — GASOLINE VAPOR SENSOR
- E — EMERGENCY FAN SHUTDOWN STATION
- EO — EMERGENCY OIL FLOW SHUTDOWN STATION
- EB — EMERGENCY BOILER SHUTDOWN STATION
- EH — HAZARDOUS STORAGE VENTILATION SYSTEM EMERGENCY SHUTDOWN STATION
- ER — REFRIGERANT PLANT EMERGENCY CONTROLS
- DP — DIFFERENTIAL PRESSURE SENSOR SENSING LOCATION
- S — OCCUPIED/UNOCCUPIED SWITCH
- M — MANUAL PUSH BUTTON
- NETWORK — BACNET NETWORK CONNECTION
- FA — SIGNAL FROM FIRE ALARM SYSTEM
- CONSTANT SPEED DRIVE
- VFD — VARIABLE FREQUENCY DRIVE
- FACP — FIRE ALARM CONTROL PANEL
- TWO-WAY CONTROL VALVE (PNEUMATIC)
- TWO-WAY CONTROL VALVE (ELECTRIC)
- LOUVER
- HUMIDIFIER
- C2 — CARBON DIOXIDE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR SENSING LOCATION
- ES — END SWITCH
- FA — FIRE ALARM RELAY (BY DIVISION 28)
- HL — HUMIDITY HIGH LIMIT SENSOR
- LL — HUMIDITY LOW LIMIT SENSOR
- FACP / SD — DUCT SMOKE DETECTOR BY FA
- F — FLOW METER
- A — ALARM
- T — AVERAGING TYPE THERMOSTAT
- DP — DIFFERENTIAL PRESSURE SENSOR
- CT — CURRENT TRANSDUCER
- VS — VIBRATION SWITCH
- AM — AMPERAGE METER
- S — STARTER
- DM — DEMAND LIGHT
- DP — DIFFERENTIAL PRESSURE
- CS — CONDENSATE SENSOR
- LCD — LAB CONTROL DISPLAY
- PI — POSITION INDICATOR
- HPL — HIGH PRESSURE LIMIT
- O — OXYGEN SENSOR
- E — EMERGENCU FAM SHUTDOWN STATION
- EB — EMERGENCY BOILER SHUTDOWN STATION
- SD — SMOKE DETECTOR
- SCC — SPACE CONDITION CONTROLLER
- M — MANUAL PUSH BUTTON
- HS — HIGH STATIC SHUTDOWN

HYDRONIC PIPING

- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- D — DRAIN
- R — REFRIGERANT
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN

GENERAL NOTE

THIS IS A STANDARD LEGEND SHEET. ABBREVIATIONS AND SYMBOLS MAY APPEAR ON THIS SHEET THAT ARE NOT USED IN THE CONSTRUCTION DOCUMENTS.

ABBREVIATIONS

ABV	ABOVE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE RAISED FLOOR
ARF	ABOVE FINISHED GRADE
AP	ACCESS PANEL
APR	AIR PRESSURE
APD	AIR PRESSURE DROP
ARCH	ARCHITECT/ARCHITECTURAL
BSL	BIOSAFETY LEVEL
BEL	BELOW
BF	BELOW FLOOR
BM	BEAM
BOD	BOTTOM OF DUCT
BCS	BUILDING CONTROL SYSTEM
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COL	COLUMN
CONN	CONNECT/CONNECTION
CONT	CONTINUATION/CONTINUOUS
CTE	CONNECT TO EXISTING
DB	DRY BULB
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ELEC	ELECTRICAL/ELECTRIC
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXP	EXPOSED
ETO	ETHYLENE OXIDE
FC	FLEXIBLE CONNECTION
FL	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
GPM	GALLONS PER MINUTE
GR	GRADE
HPD	HIGH PRESSURE DRIP ASSEMBLY
HT	HOT TAP
LAT	LEAVING AIR TEMPERATURE
LS	LINE STOP
LWT	LEAVING WATER TEMPERATURE
MPD	MEDIUM PRESSURE DRIP ASSEMBLY
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OBD	OPPOSED-BLADE DAMPER
OC	ON CENTER
PS	PIPE STAND SUPPORT
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
REL	RELOCATE
REM	REMOVE
SA	SOUND ATTENUATOR
SDA	STEAM DRIP ASSEMBLY
SPEC	SPECIFICATION
TEMP	TEMPERATURE
TS	TIGHT TO STRUCTURE
TYP	TYPICAL
UG	UNDERGROUND
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
WG	WATER GAUGE
WPD	WATER PRESSURE DROP

PIPING AND VALVES

- PIPE CAP
- CLEANOUT (CO) IN DRAIN LINE
- DIRECTION OF FLOW
- ELBOW - 45°
- ELBOW - 90°
- ELBOW - TURNED DOWN
- ELBOW - TURNED UP
- FLEXIBLE CONNECTOR - PIPING
- STRAINER
- B — STRAINER (BASKET TYPE)
- REDUCER - CONCENTRIC
- REDUCER - ECCENTRIC
- TEE
- TEE OUTLET DOWN
- TEE OUTLET UP
- UNION OR FLANGE
- STEAM TRAP (SEE SPECIFICATIONS FOR TYPE AND USE)
- STEAM DRIP ASSEMBLY
- BALL OR BUTTERFLY VALVE (SEE SPECIFICATIONS FOR USE)
- CHECK VALVE
- V — VACUUM BREAKER
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- GATE VALVE
- GLOBE VALVE, STRAIGHT
- WATER PRESSURE REDUCING VALVE
- T — RELIEF VALVE
- S — SOLENOID VALVE
- BALANCING VALVE
- UNDERGROUND VALVE (TYPE AS SHOWN) WITH VALVE BOX
- M / F — FLOW CONTROL VALVE (M-MANUAL TYPE; A-AUTOMATIC TYPE)
- T — FLOW METER (A-ANNULAR TYPE; T-TURBINE TYPE; V-VENTURI TYPE)
- M / V — AIR VENT (M-MANUAL TYPE; A-AUTOMATIC TYPE; T-THERMOSTATIC TYPE)
- THERMOMETER
- PRESSURE GAUGE
- TEMPERATURE AND PRESSURE TEST PORT; PETE'S PLUG
- THERMOMETER TEST WELL

CAPE FEAR FD STONEWATER

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY
GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

Newcomb & Boyd
CONSULTANTS AND ENGINEERS
Consulting Engineering Group
5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
HVAC LEGEND, ABBREVIATIONS, AND GENERAL NOTES

DATE:
CURRENT: **2020.11.20**
TI GMP SET

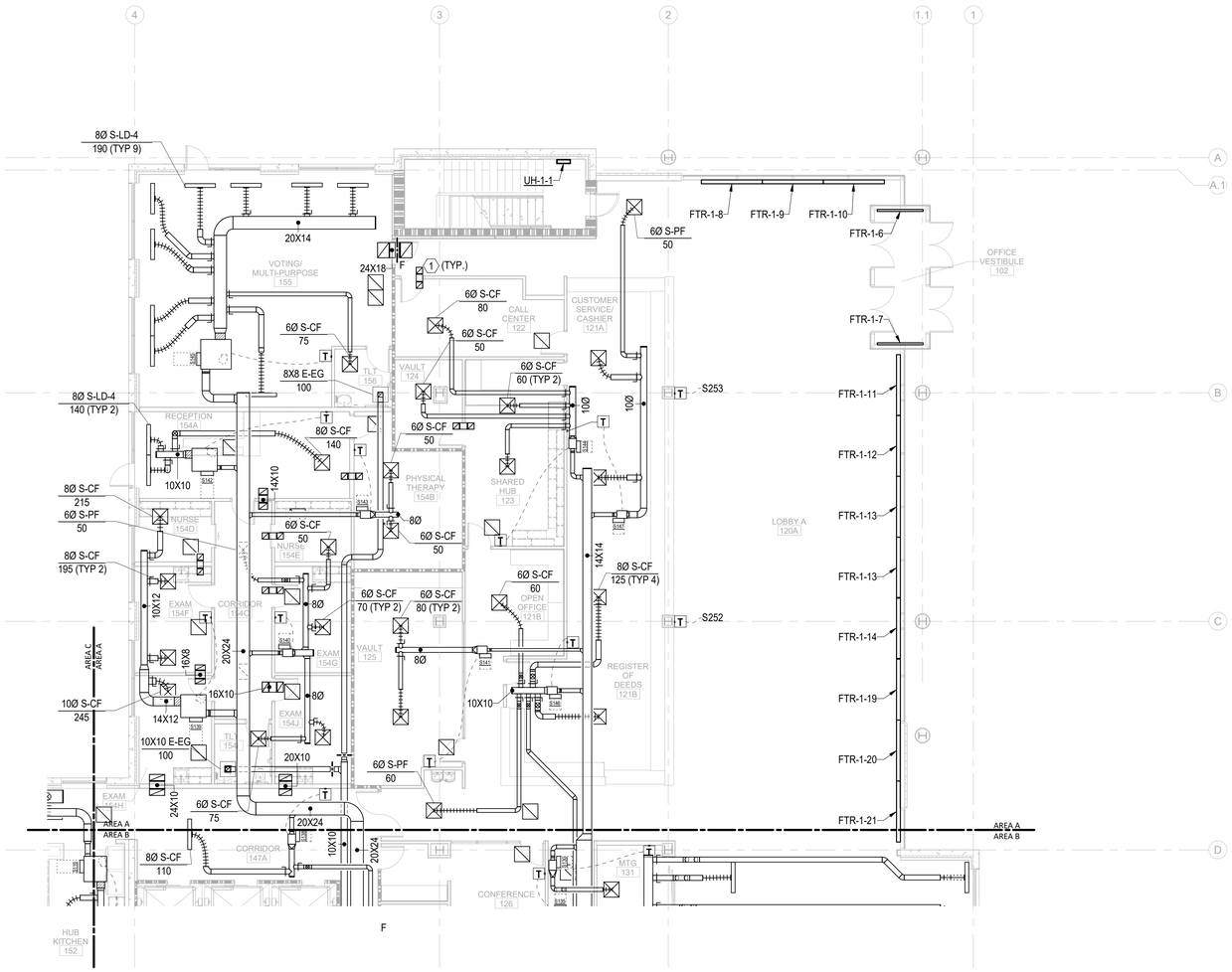
SHEET:
M-001

TI GMP SET

11/19/2020 3:00:03 PM

E D C B A

1 2 3 4 5 6



KEY NOTES:

1. 10X10 TRANSFER DUCT (UNO). SEE DETAIL 4/M602.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / M-101A	HVAC TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"

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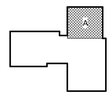
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
HVAC FLOOR PLAN - LEVEL 1 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-101A

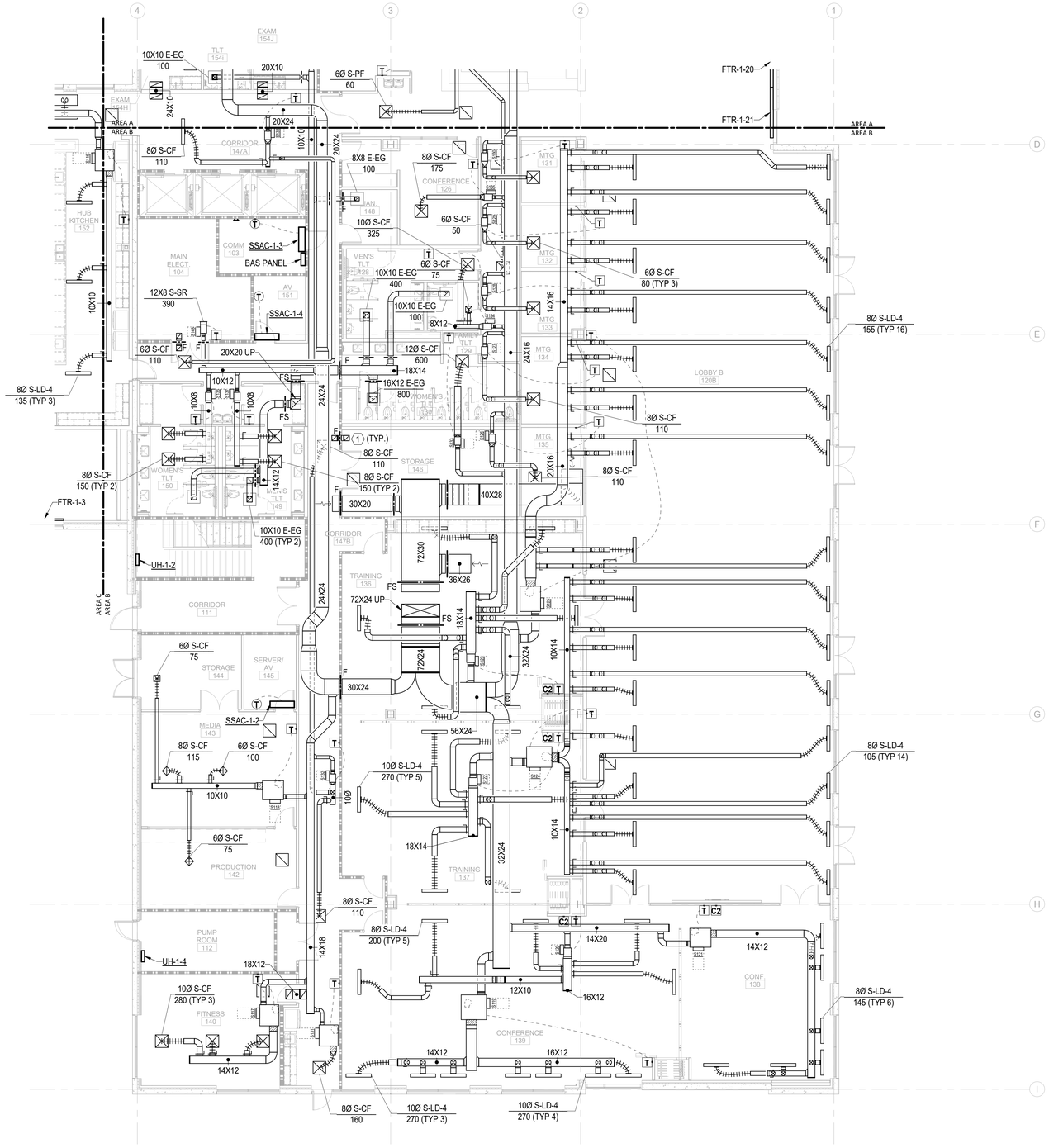
TI GMP SET

11/19/2020 3:00:08 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

1 2 3 4 5 6

A B C D E F



KEY NOTES:

1. 10X10 TRANSFER DUCT (UNO). SEE DETAIL 4/M602.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 M-101B	HVAC TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B	1/8" = 1'-0"

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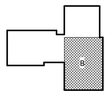
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
HVAC FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-101B

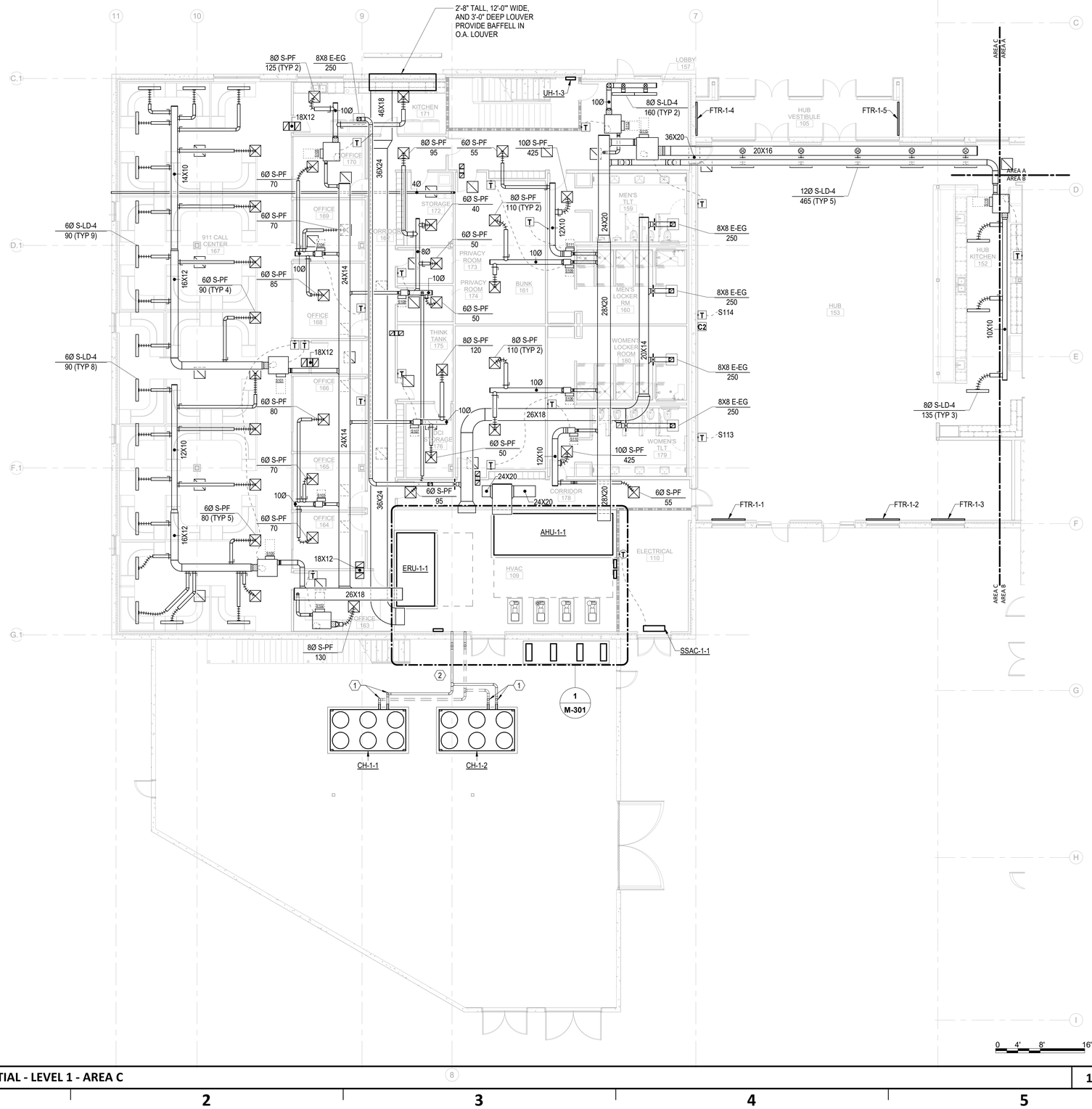
TI GMP SET

11/19/2020 3:00:16 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

KEY NOTES:

1. SUPPLY AND RETURN CHILLED WATER PIPING DOWN 2'-0" BELOW GRADE.
2. PROVIDE HEAT TRACING FOR EXPOSED CHILLED WATER PIPING. HEAT TRACING TO OUTPUT 3 W/FT.



1 M-101C **HVAC TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** 1/8" = 1'-0"

11/19/2020 3:00:22 PM

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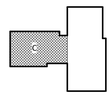
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
HVAC FLOOR PLAN - LEVEL 1 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-101C

TI GMP SET

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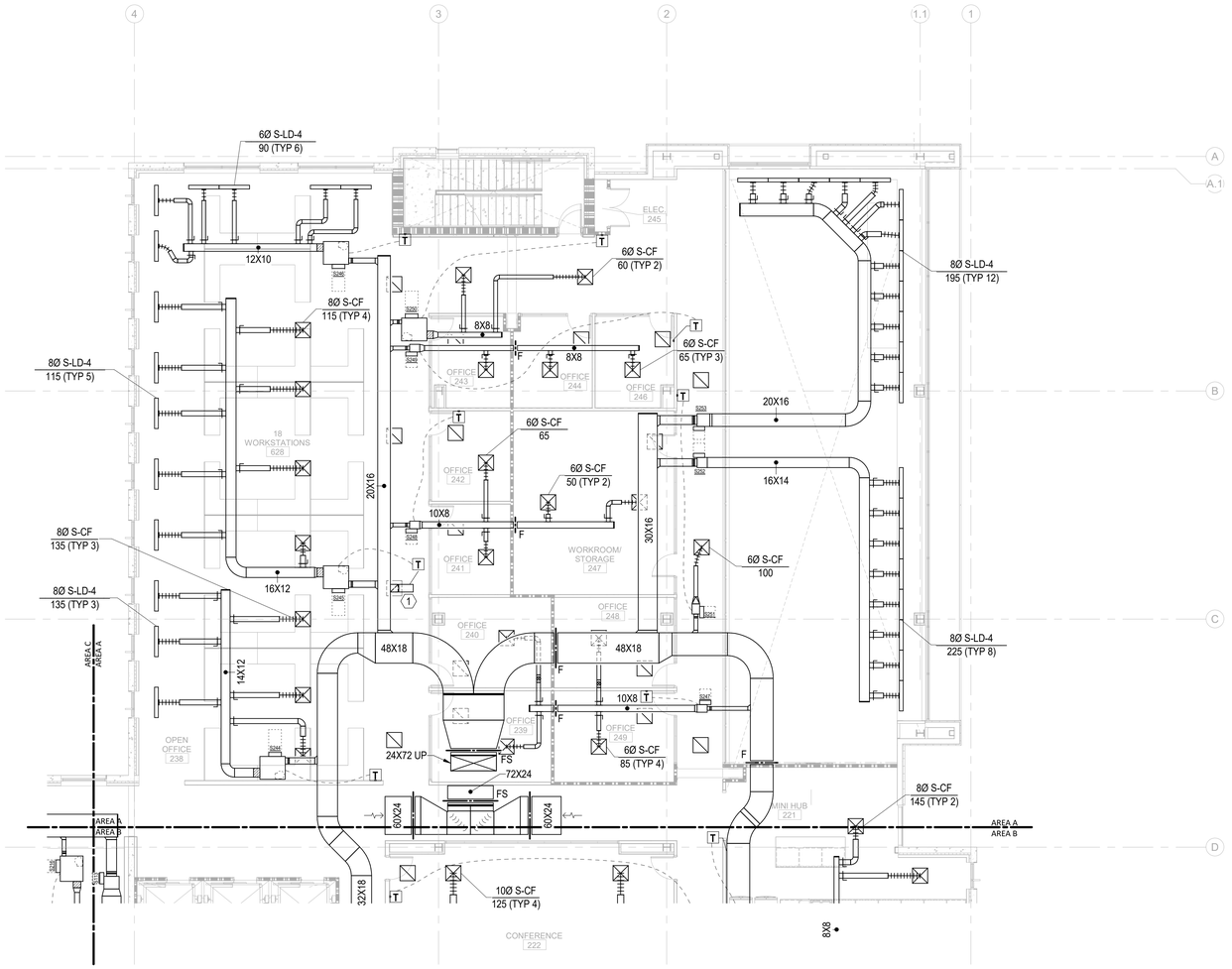

KEY NOTES:

1. SEE DETAIL 5/M602.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 M-102A	HVAC TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A	1/8" = 1'-0"

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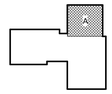
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
HVAC FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-102A

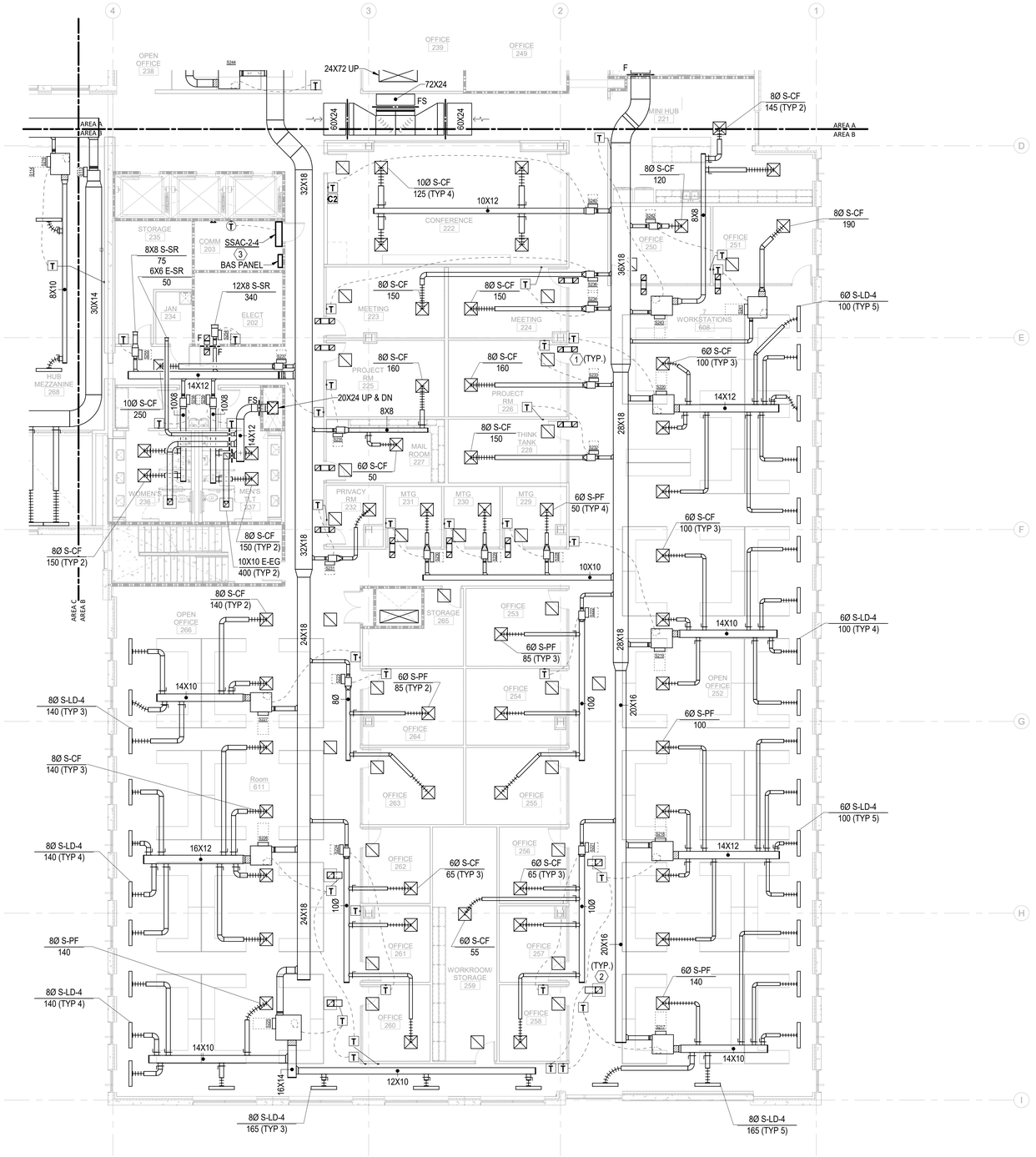
TI GMP SET

11/19/2020 3:00:26 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

KEY NOTES:

1. 10X10 TRANSFER DUCT (UNO). SEE DETAIL 4/M602.
2. SEE DETAIL 5/M602.
3. ROUTE CONDENSATE TO MOP SINK IN JAN. ROOM.



0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 M-102B **HVAC TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B** 1/8" = 1'-0"

11/19/2020 3:00:34 PM

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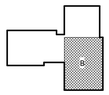
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
HVAC FLOOR PLAN - LEVEL 2 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-102B

TI GMP SET

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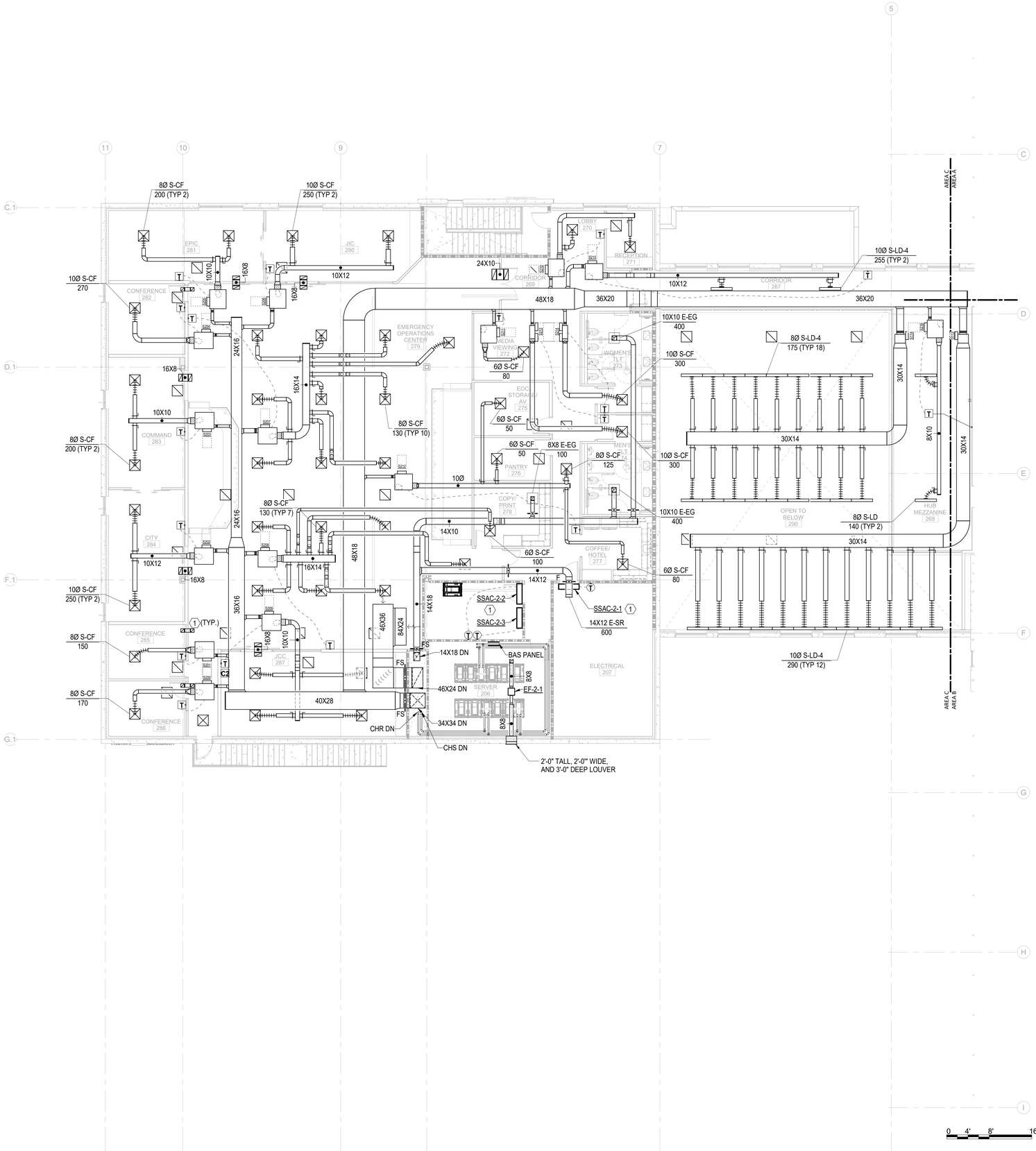
1 2 3 4 5 6

E D C B A



KEY NOTES:

1. ROUTE CONDENSATE TO FLOOR DRAIN IN HVAC ROOM ON 1ST FLOOR.

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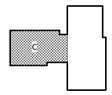
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
HVAC FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-102C

TI GMP SET

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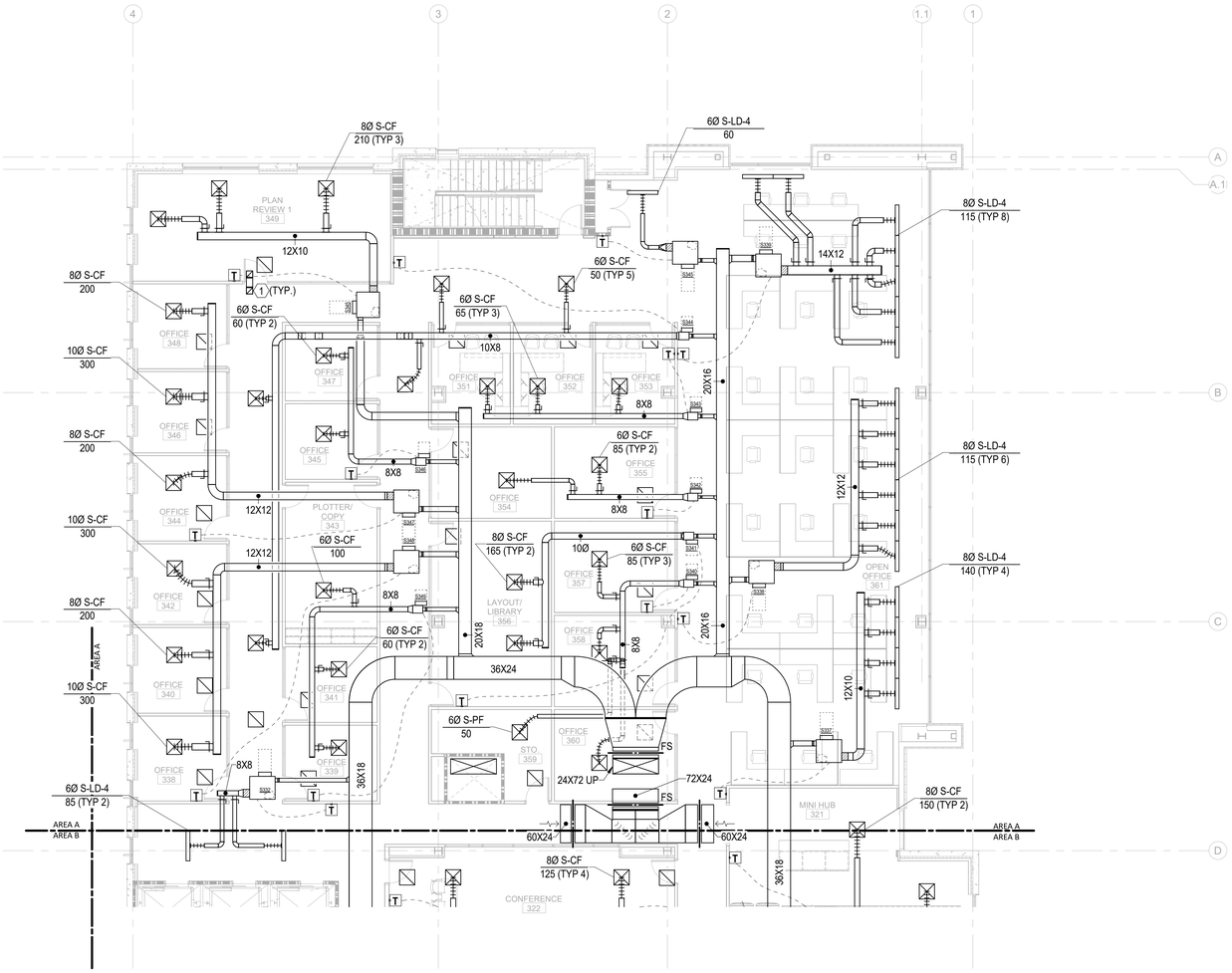
1 M-102C	HVAC TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C	1/8" = 1'-0"

11/19/2020 3:00:37 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



KEY NOTES:

1. 10X10 TRANSFER DUCT (UNO). SEE DETAIL 4/M602.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 M-103A **HVAC TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A** — 1/8" = 1'-0"

11/19/2020 3:00:42 PM

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Firm License No. F-0312

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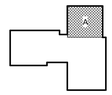
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



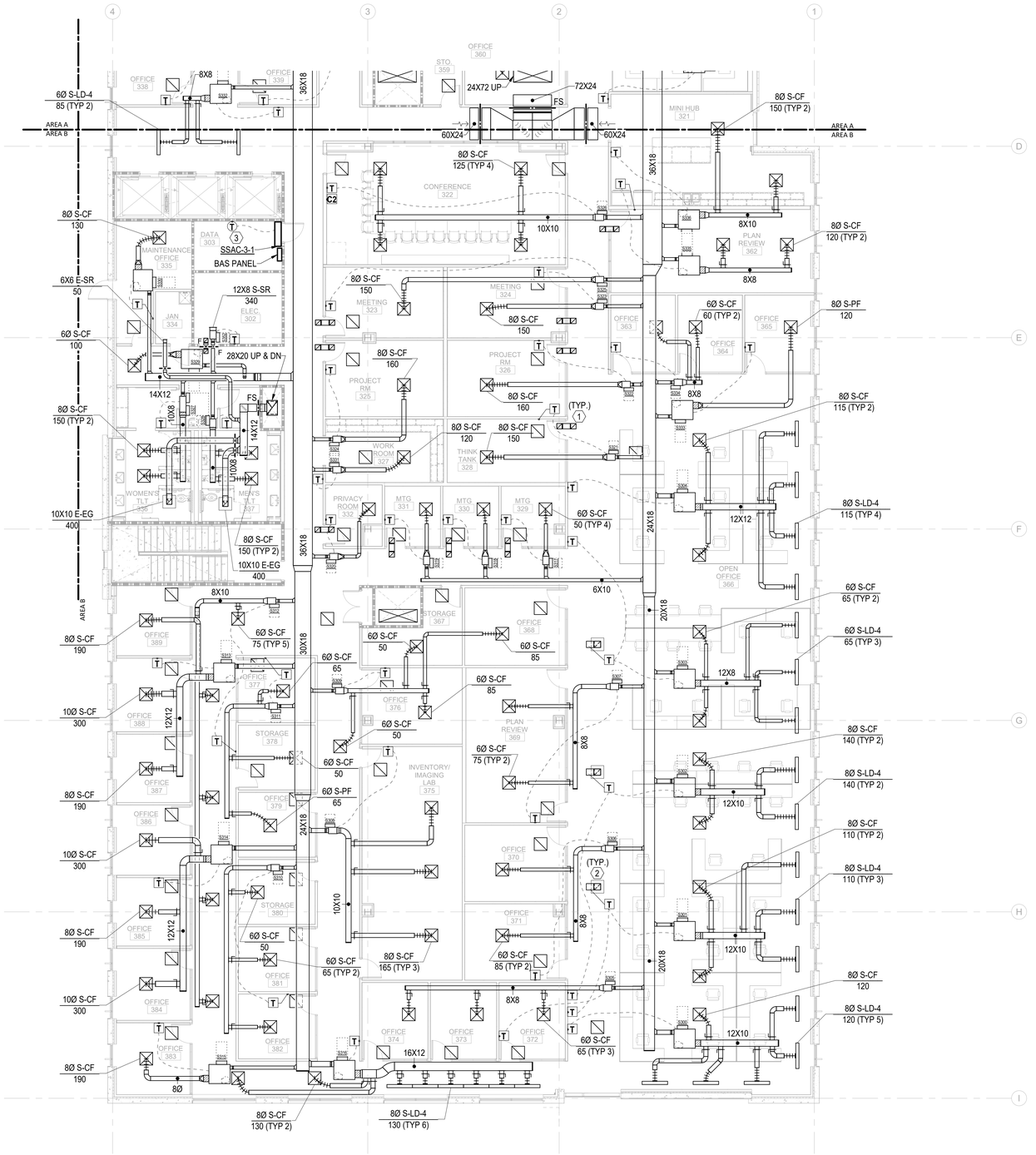
SHEET NAME:
HVAC FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-103A

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



KEY NOTES:

1. 10X10 TRANSFER DUCT (UNO). SEE DETAIL 4/M602.
2. SEE DETAIL 5/M602.
3. ROUTE CONDENSATE TO MOP SINK IN JAN. ROOM.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 M-103B **HVAC TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B** 1/8" = 1'-0"

11/19/2020 3:00:50 PM

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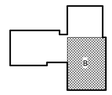
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
HVAC FLOOR PLAN - LEVEL 3 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-103B

TI GMP SET

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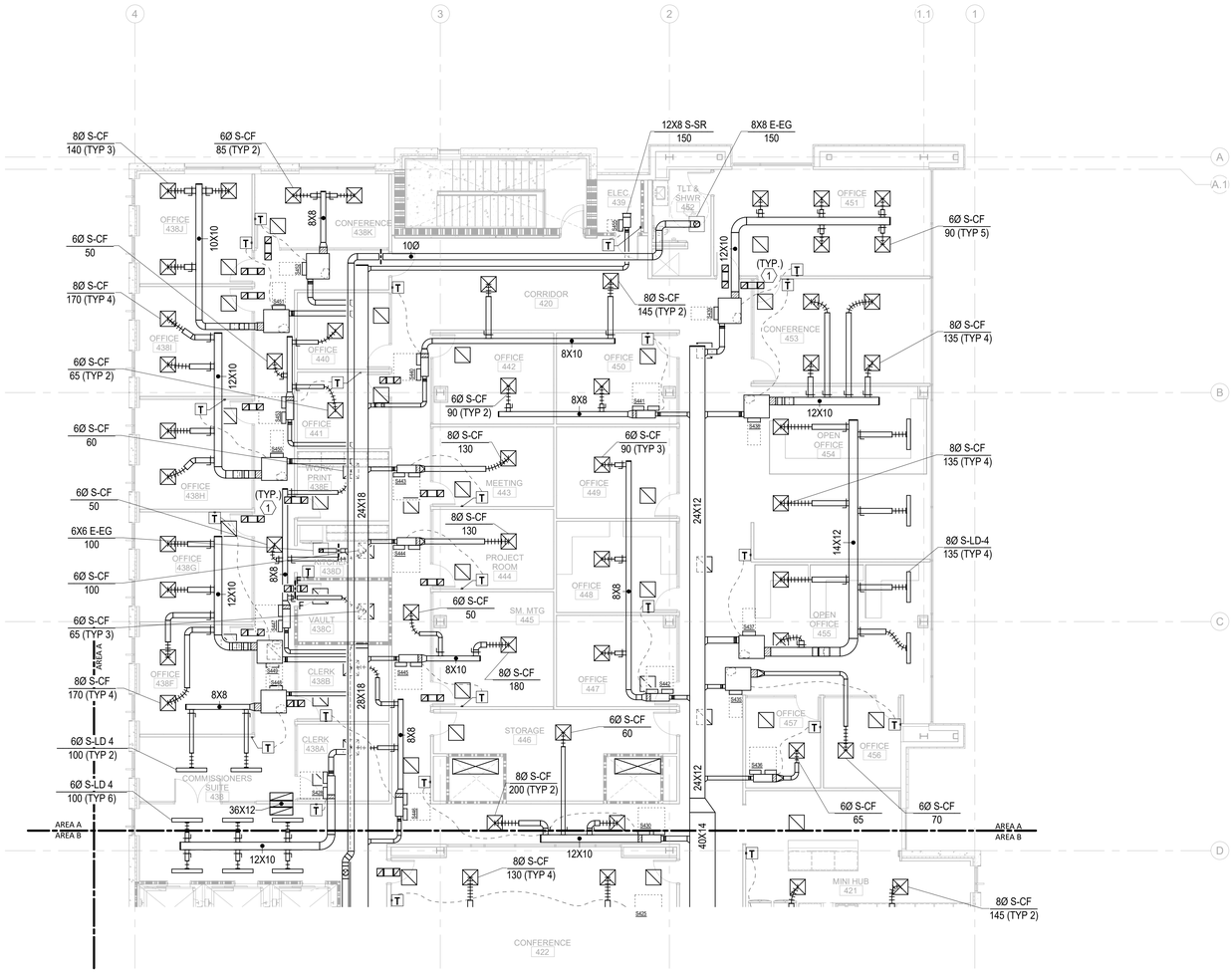
1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



KEY NOTES:

(1) 10X10 TRANSFER DUCT (UNO). SEE DETAIL 4/M602.

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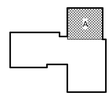
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
HVAC FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-104A

TI GMP SET

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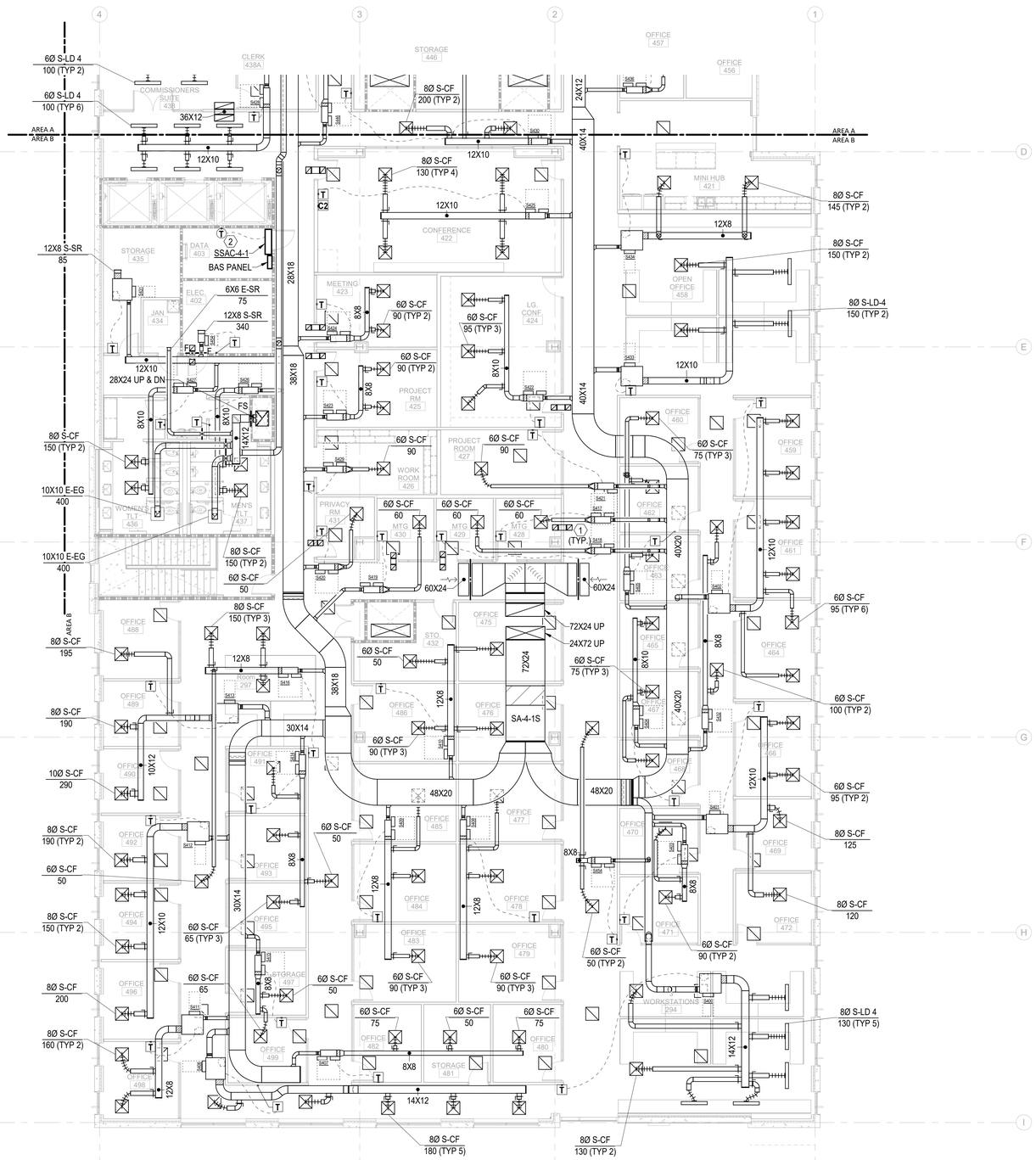
N&B PROJECT: 19N342
Firm License No. F-0312

0 4' 8' 16'
TRUE NORTH
PROJECT NORTH

1 M-104A HVAC TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A — 1/8" = 1'-0"

11/19/2020 3:00:55 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / M-104B	HVAC TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B	1/8" = 1'-0"

11/19/2020 3:01:04 PM

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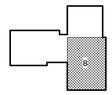
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
HVAC FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-104B

TI GMP SET

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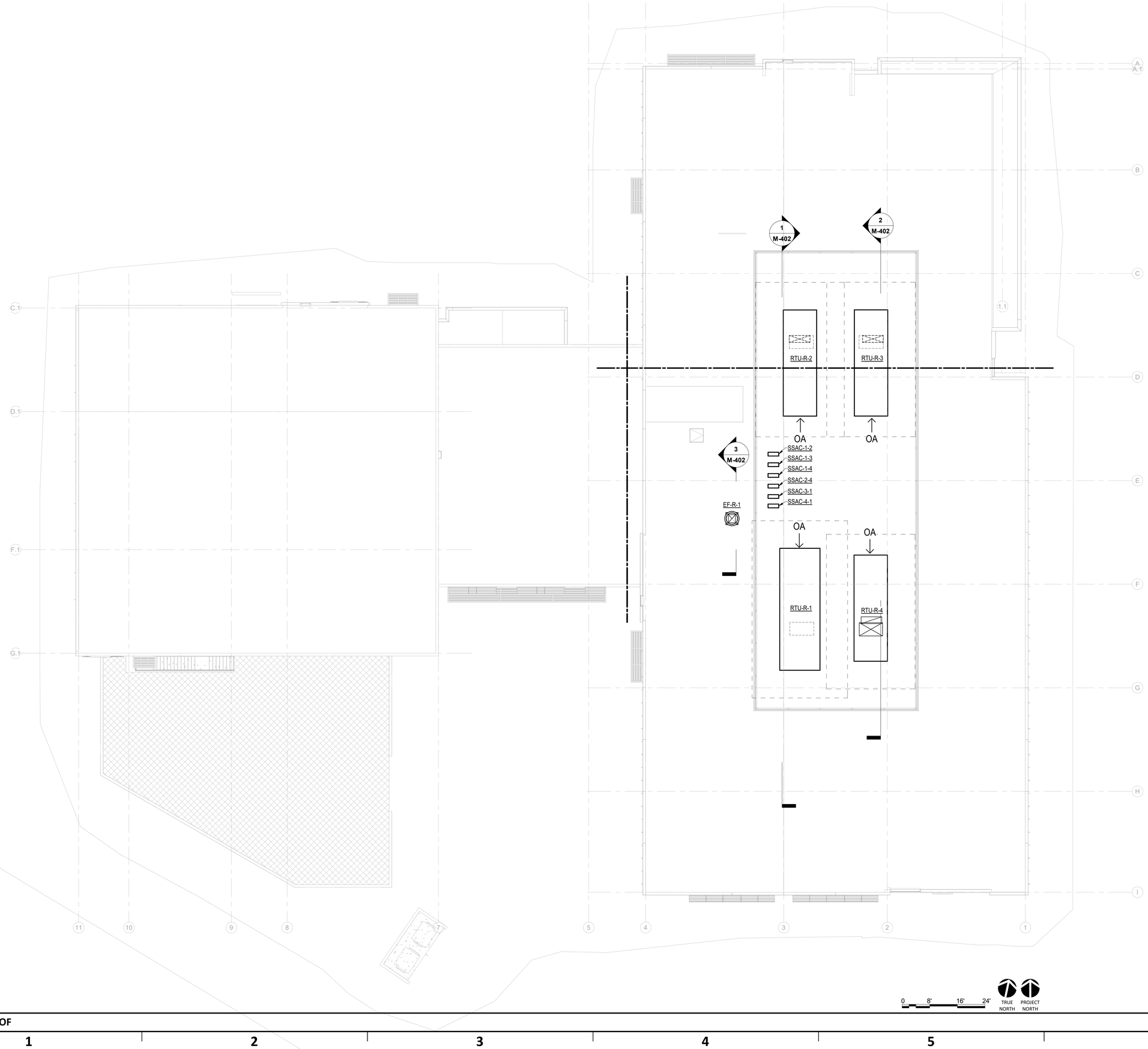
N&B PROJECT: 19N342
Firm License No. F-0312

1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL PLOTTING SCALE



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2 M-105 **HVAC ROOF** — 3/32" = 1'-0"

11/19/2020 3:01:17 PM

CAPE FEAR FD STONEWATER

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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:

SHEET NAME:
HVAC ROOF PLAN - OVERALL

DATE:
CURRENT: 2020.11.20
TI GMP SET

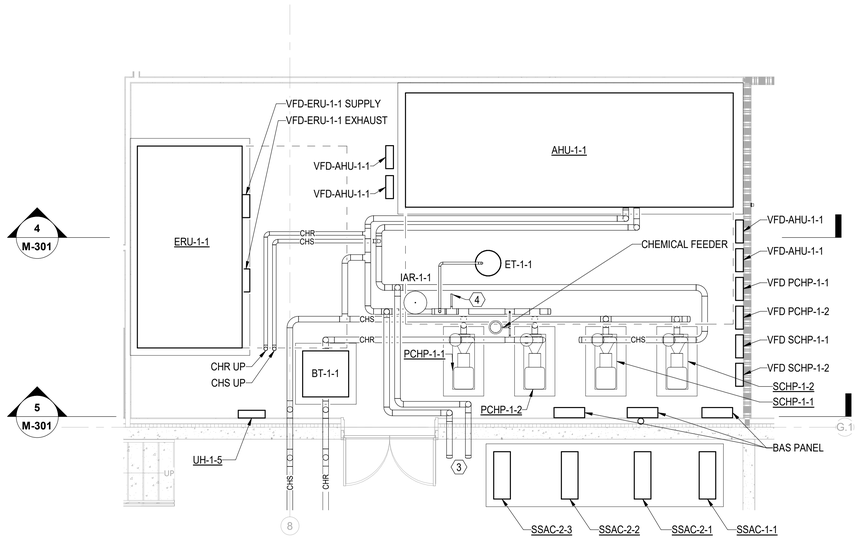
SHEET:
M-105

TI GMP SET

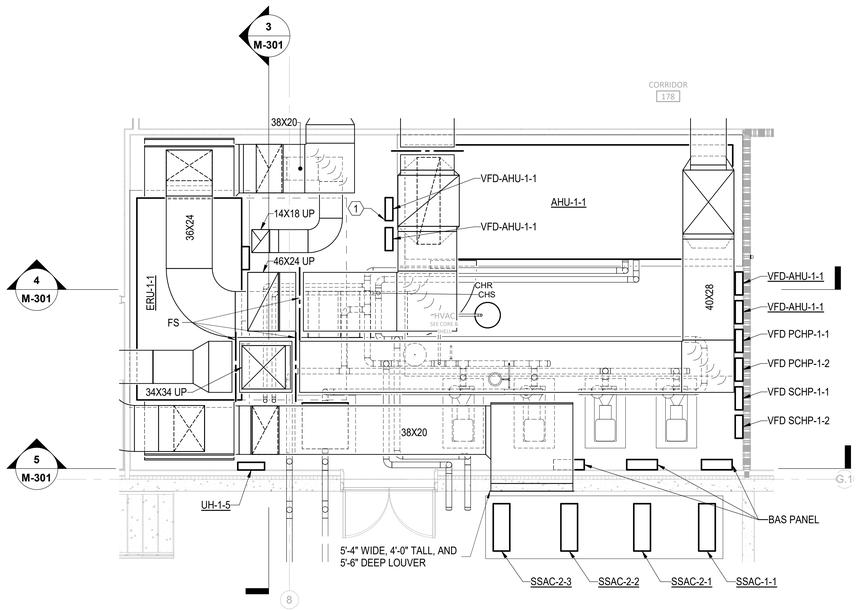
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

KEY NOTES:

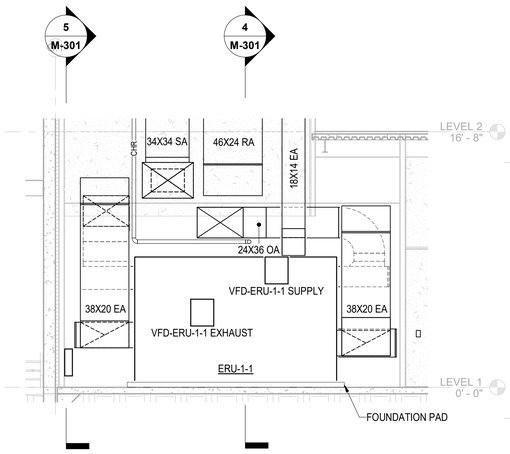
1. PROVIDE UNISTRUT STRUCTURE FOR BOTH AHU-1-1 VFD'S.
2. MAINTAIN 8'-0" CLEAR IN FRONT OF BAS PANEL.
3. EMERGENCY CHILLER CONNECTIONS.
4. 1" MAKEUP WATER CONNECTION.



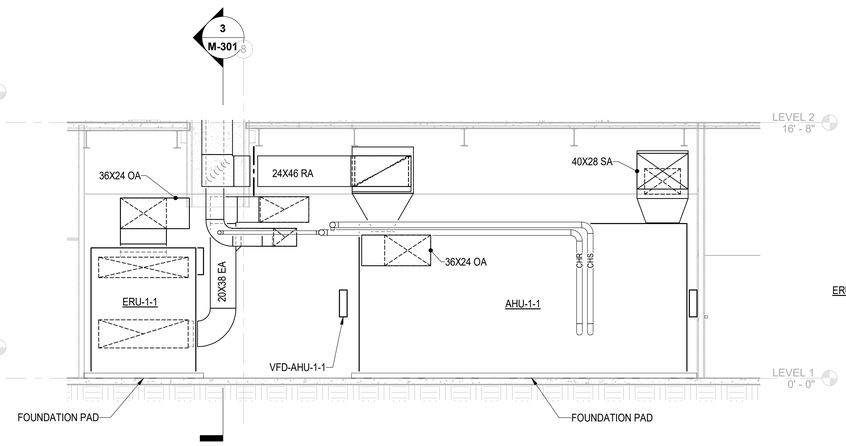
1 M-301 **HVAC PART PLAN - MECHANICAL ROOM PIPING**
1/4" = 1'-0"



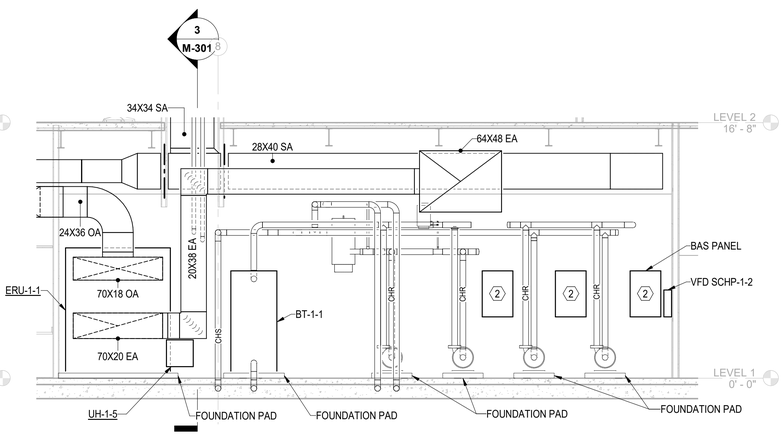
2 M-301 **HVAC PART PLAN - MECHANICAL ROOM**
1/4" = 1'-0"



3 M-301 **HVAC PART PLAN - MECHANICAL ROOM LOOKING WEST**
1/4" = 1'-0"



4 M-301 **HVAC PART PLAN - MECHANICAL ROOM LOOKING NORTH 1**
1/4" = 1'-0"



5 M-301 **HVAC PART PLAN - MECHANICAL ROOM LOOKING NORTH 2**
1/4" = 1'-0"

CAPE FEAR FD STONEWATER

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101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

Newcomb & Boyd
CONSULTANTS AND ENGINEERS
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5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
HVAC PART PLAN - MECHANICAL PLAN

DATE:
CURRENT: 2020.11.20
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SHEET:
M-301

TI GMP SET

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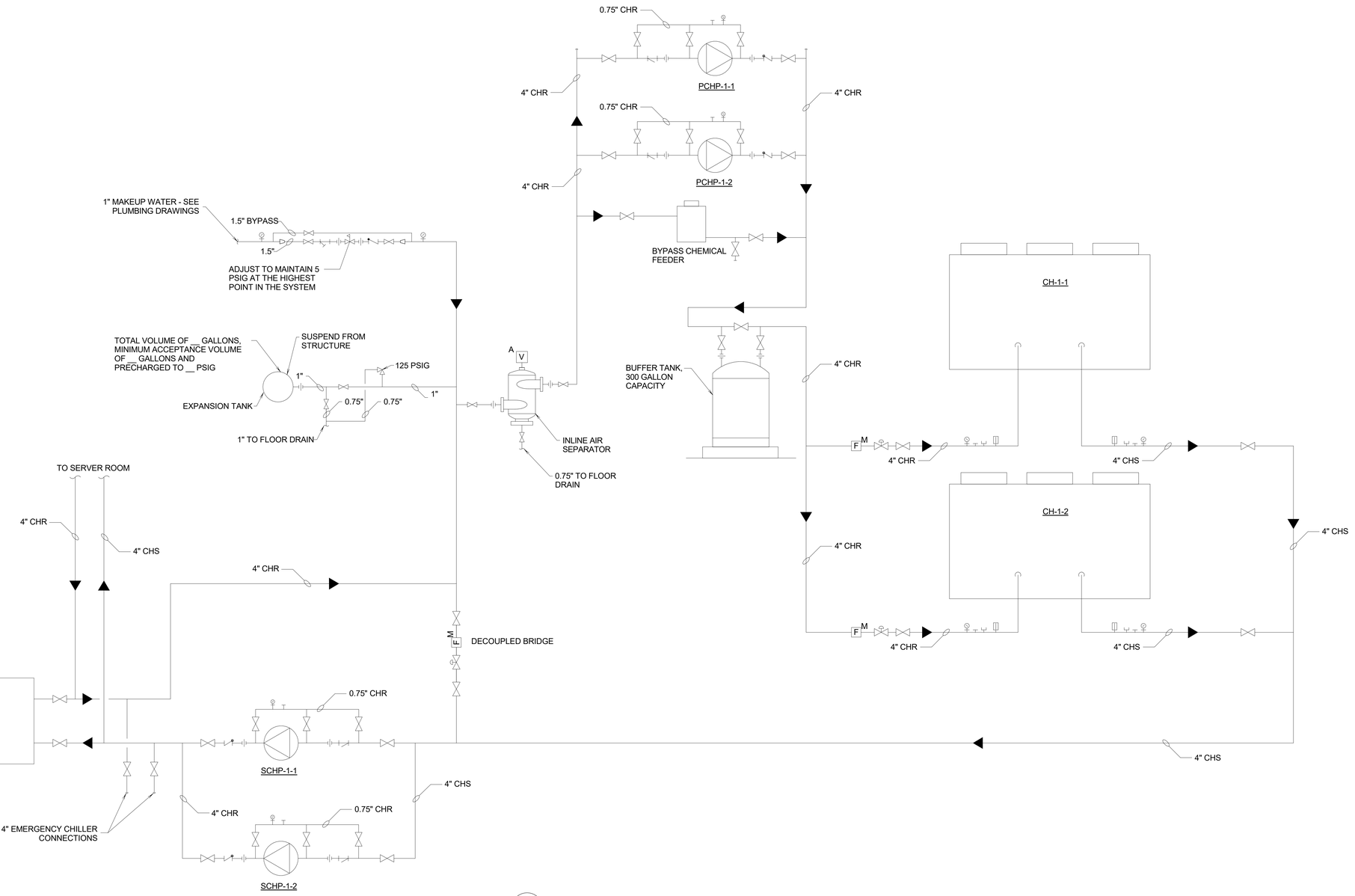

1 M-401 **CHILLED WATER FLOW SCHEMATIC**
NO SCALE

CAPE FEAR FD STONEWATER

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Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
HVAC CHILLED WATER FLOW SCHEMATIC EOC

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-401

TI GMP SET

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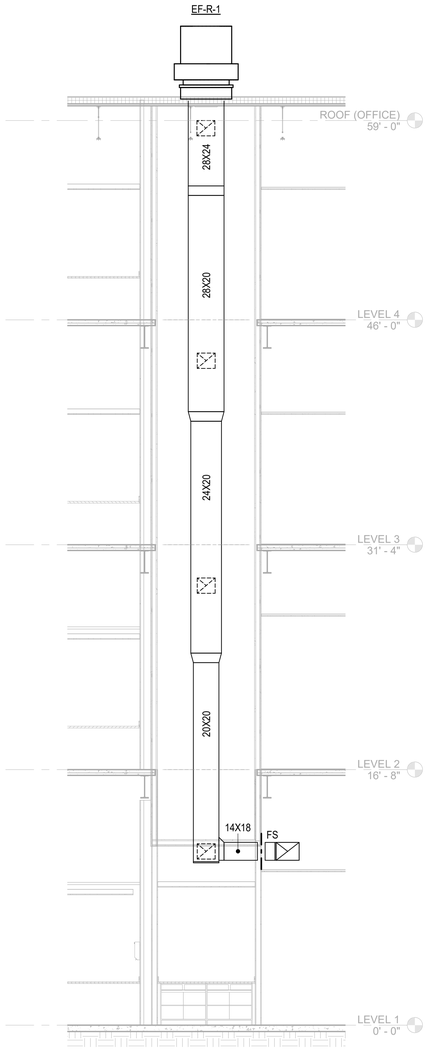
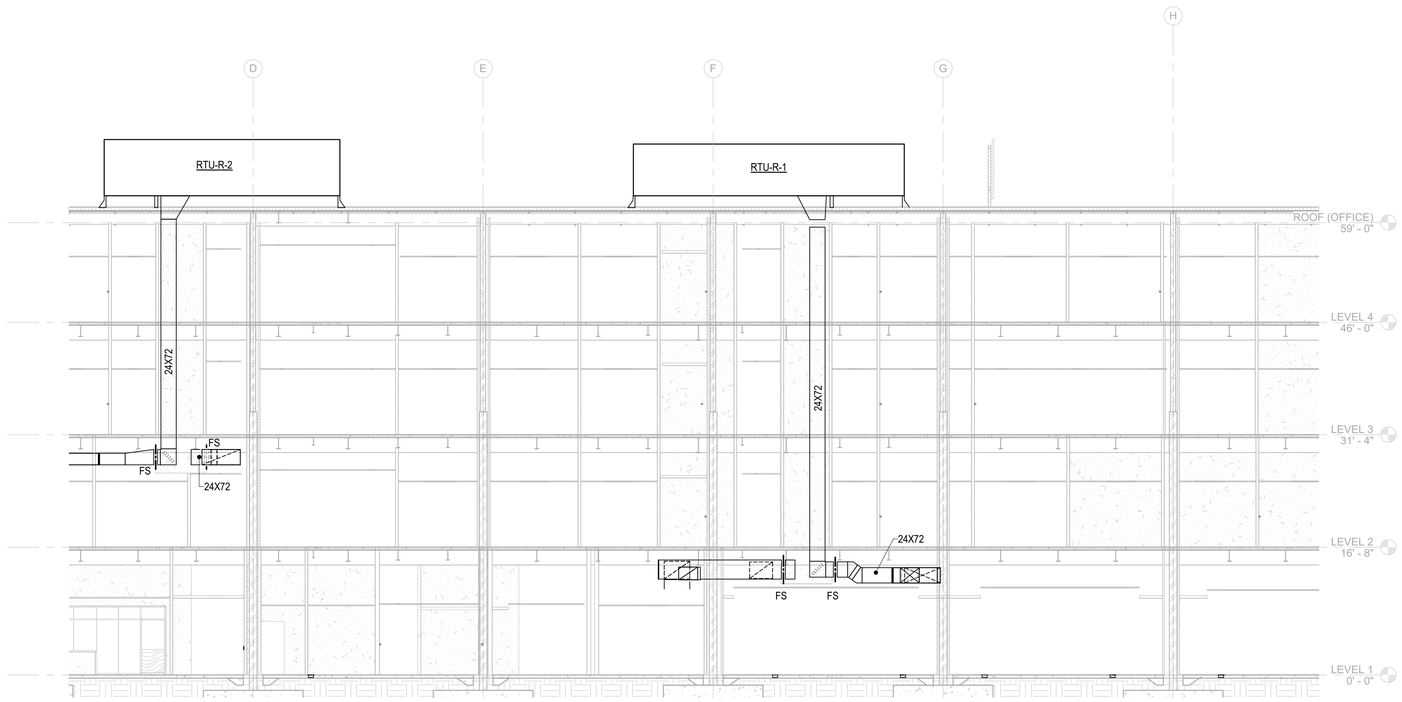
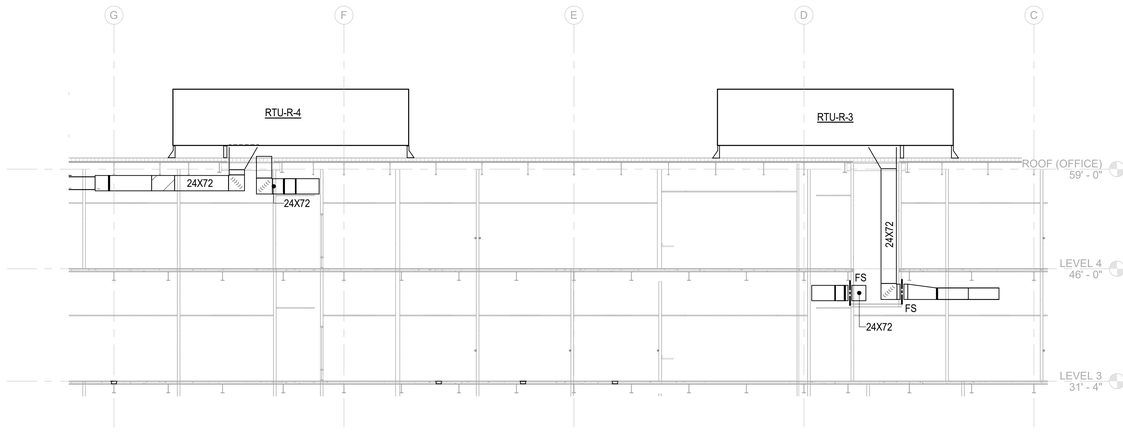


3 M-402 **HVAC RISER TOWER EXHAUST**
1/4" = 1'-0"



1 M-402 **HVAC RISER WEST RTUs - LOOKING EAST**
1/8" = 1'-0"



2 M-402 **HVAC RISER EAST RTUs - LOOKING WEST**
1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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CAPE FEAR FD STONEWATER

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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
HVAC RISER DIAGRAM TOWER

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
M-402

TI GMP SET

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N&B PROJECT: 19N342
Firm License No. F-0312

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

AIR-COOLED CHILLER SCHEDULE

NO.	CAPACITY, TONS (NOTES 1 & 2)	MAXIMUM POWER INPUT kW AT FULL LOAD	MINIMUM EER	MINIMUM NPLV	EVAPORATOR EWT °F	EVAPORATOR LWT °F	EVAPORATOR DESIGN GPM	EVAPORATOR MINIMUM GPM	EVAPORATOR MAXIMUM PRESS. DROP, FT. WG	NOTES
CH-1-1	120	142	10.8	15.7	58	44	200	100	13.6	3
CH-1-2	120	142	10.8	15.7	58	44	200	100	13.6	3

NOTES:
1. CAPACITY BASED ON 95°F AMBIENT TEMPERATURE.
2. PROVIDE LOW AMBIENT OPERATION DOWN TO 30°F.
3. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
4. FULLY REDUNDANT CHILLER.
5. PROVIDE EMERGENCY POWER.

ENERGY RECOVERY UNIT SCHEDULE

NO.	SUPPLY SIDE: SUPPLY FAN CFM (NOTE 7)	MAXIMUM RPM	TYPE (NOTE 1)	ESP. IN. WG (NOTE 2)	MOTOR MINIMUM HP	MOTOR MAXIMUM BHP	ENERGY RECOVERY WHEEL (NOTE 3): CFM	TOTAL ENERGY EFFECTIVENESS SUMMER	TOTAL ENERGY EFFECTIVENESS WINTER	SUMMER EAT °F DB	SUMMER EAT °F WB	SUMMER LAT °F DB	SUMMER LAT °F WB	WINTER EAT °F DB	WINTER EAT °F WB	WINTER LAT °F DB	WINTER LAT °F WB	GENERAL EXHAUST SIDE: EXHAUST FAN CFM (NOTE 7)	MAXIMUM RPM	TYPE (NOTE 1)	ESP. IN. WG (NOTE 5)	MOTOR MINIMUM HP	MOTOR MAXIMUM BHP	ENERGY RECOVERY WHEEL (NOTE 6) CFM	SUMMER EAT °F DB	SUMMER EAT °F WB	WINTER EAT °F DB	WINTER EAT °F WB	VIBRATION ISOLATION TYPE	MIN. STATIC DEFLECTION IN.	NOTES
ERU-1-1	8,000	5,400	C-AF	4.0	10	8.5	8,000	62	65	93	78	81	68	10	8	49	58	8,000	5,400	C-AF	4.0	10	8.5	8,000	75	62	70	58	FS	1.5	8

1. FAN TYPE:
   FAN: C CENTRIFUGAL; WHEEL: AF AIRFOIL
2. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE UNIT CASING, OR ENERGY RECOVERY WHEELS, BUT DOES INCLUDE FILTERS.
3. OUTSIDE AIR SUPPLY SIDE OF ENERGY RECOVERY WHEELS SHALL HAVE MAXIMUM 1.0" WG APD.
4. PROVIDE VARIABLE FREQUENCY DRIVE FOR ALL FAN MOTORS.
5. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE UNIT CASING OR ENERGY RECOVERY WHEELS, BUT DOES NOT INCLUDE FILTERS.
6. EXHAUST SIDE OF ENERGY RECOVERY WHEELS SHALL HAVE MAXIMUM 1.0" WG APD.
7. CFM DOES NOT INCLUDE PURGE FOR WHEEL.
8. REFER TO ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.

AIR HANDLING UNIT SCHEDULE

NO.	AREA SERVED (NOTE 1)	TYPE (NOTE 2)	FAN CFM	FAN MAXIMUM RPM	FAN TYPE (NOTE 3)	FAN ESP. IN. WG (NOTE 4)	FAN MOTOR MINIMUM HP	FAN MOTOR MAXIMUM BRAKE HP	COOLING COIL MINIMUM OA CFM	COOLING COIL CFM (NOTE 5)	COOLING COIL MAXIMUM CHILLED WATER GPM (NOTE 6)	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	CONTROL VALVE TYPE (NOTE 7)	ELECTRIC HEATING SECTION: COIL SECTION AIRFLOW DURING MAXIMUM COOLING DEMAND, CFM (NOTE 8)	CONDITIONS DURING MAXIMUM HEATING DEMAND CFM	kW	EAT °F	LAT °F	TYPE-POSITION (NOTE 9)	CONTROL TYPE	VIBRATION ISOLATION TYPE	MIN. STATIC DEFLECTION, IN.	NOTES
AHU-1-1	EOC/911	DT-HZ-VV	24,000	3,500	P-AF	3.0	(4) @ 20	16.22	8,000	24,000	150	82	68	52.2	52.0	2	24,000	12,000	48	43	55.5	S-P	SCR	FS	0.75	11

NOTES:
1. DESIGN CONDITIONS:

	SUMMER	WINTER
OUTSIDE	94°F DB, 78°F WB	25°F
EOC/911/HUB	75°F DB, 50% RH	70°F

2. TYPE:
   DT DRAW-THROUGH
   HZ HORIZONTAL
   VV VARIABLE VOLUME
3. FAN TYPE:
   FAN: P PLENUM; WHEEL: AF AIRFOIL
4. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE UNIT CASING, PLENUMS, DIFFUSER SECTION, OR UNIT MOUNTED HEATING AND COOLING COILS, BUT DOES INCLUDE FILTERS.
5. MAXIMUM FOR VARIABLE VOLUME UNITS: 550 FPM COIL FACE VELOCITY, 1.7" WG APD.
6. CHILLED WATER BASED ON 44°F EWT AND MAXIMUM 36' WPD.
7. CONTROL VALVE TYPE:
   2 2-WAY
8. COIL FACE AREA SHALL BE BASED ON THIS CFM WITH MAXIMUM 0.4" WG AIR PRESSURE DROP.
9. TYPE: S STANDARD; POSITION: P PREHEAT
10. PROVIDE VARIABLE FREQUENCY DRIVE FOR ALL FAN MOTORS.
11. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
12. SUPPLY FANS TO BE FULLY REDUNDANT.
13. AHU SIZED FOR BROKEN ERU.
14. PROVIDE EMERGENCY POWER

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

NO.	AREA SERVED (NOTE 1)	SUPPLY FAN CFM	SUPPLY FAN RPM	SUPPLY FAN TYPE (NOTE 2)	SUPPLY FAN ESP. IN. WG. (NOTE 3)	SUPPLY FAN MOTOR MINIMUM HP	SUPPLY FAN MOTOR MAXIMUM BRAKE HP	RELIEF FAN CFM	RELIEF FAN RPM	RELIEF FAN TYPE (NOTE 2)	RELIEF FAN ESP. IN. WG. (NOTE 3)	RELIEF FAN MOTOR MINIMUM HP	RELIEF FAN MOTOR MAXIMUM BRAKE	MINIMUM OA, CFM	COOLING SECION (NOTE 4) COIL EAT °F DB	COIL EAT °F WB	COIL LAT °F DB	COIL LAT °F WB	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	COOLING SECTION (NOTE 4) IEER	HEATING CAPACITY kW	VIBRATION ISOLATION TYPE	MIN. STATIC DEFLECTION, IN.	MAXIMUM REQUIRED CIRCUIT AMPERES	NOTES
RTU-R-1	LEVEL 1	25,000	1,160	AF-VV	2.5	(2) @ 15	26.2	19,000	600	AF-VV	0.5	(1) @ 15	12.15	4,900	78.9	65.4	52.5	52.4	1100	710	14.7	190	FS	2	302	
RTU-R-2	LEVEL 2	20,000	1,970	AF-VV	2.5	(2) @ 10	17.9	16,000	950	AF-VV	0.5	(2) @ 8	1.76	4,200	79.6	66.0	52.5	52.4	810	520	16.7	90	FS	1	175	
RTU-R-3	LEVEL 3	20,000	1,970	AF-VV	2.5	(2) @ 10	17.9	16,000	950	AF-VV	0.5	(2) @ 8	1.76	4,200	79.2	65.7	52.5	52.4	810	520	16.7	90	FS	1	175	
RTU-R-4	LEVEL 4	20,000	1,970	AF-VV	2.5	(2) @ 10	17.9	16,000	950	AF-VV	0.5	(2) @ 8	1.76	4,200	79.1	65.5	52.5	52.4	810	520	16.7	90	FS	1	175	

NOTES:
1. DESIGN CONDITIONS:

	SUMMER	WINTER
OUTSIDE	94°F DB, 78°F WB	25°F
OFFICE	75°F DB, 50% RH	70°F

2. FAN TYPE:
   AF AIRFOIL VV VARIABLE VOLUME
3. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE UNIT CASING, UNIT-MOUNTED COOLING AND HEAT SECTION, OR UNIT-MOUNTED DAMPERS, BUT DOES INCLUDE FILTERS.
4. UNITS SHALL START AND OPERATE DOWN TO 0°F. CAPACITY IS BASED ON 95°F CONDENSER EAT.
5. REFER TO THE ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.
6. PROVIDE VARIABLE FREQUENCY DRIVE FOR ALL FAN MOTORS.

DUCTLESS SPLIT SYSTEM SCHEDULE

NO.	AREA SERVED	TYPE (NOTE 2)	INDOOR UNIT NOMINAL CFM (NOTE 3)	COOLING (NOTE 4) SENSIBLE CAPACITY, MBH	COOLING (NOTE 4) TOTAL CAPACITY, MBH	COOLING (NOTE 4) MINIMUM EER	INDOOR UNIT MOUNTING HEIGHT	NOTES
SSAC-1-1	EOC LEVEL 1 ELECTRICAL	AC	700	18	24	13	8'	
SSAC-1-2	TOWER LEVEL 1 SERVER	AC	700	18	24	13	8'	
SSAC-1-3	TOWER LEVEL 1 COMM	AC	700	18	24	13	8'	
SSAC-1-4	TOWER LEVEL 1 AV	AC	700	18	24	13	8'	
SSAC-2-1	EOC LEVEL 2 ELECTRICAL	AC	800	27	36	13	8'	
SSAC-2-2	EOC LEVEL 2 COMM	AC	700	18	24	13	8'	
SSAC-2-3	EOC LEVEL 2 COMM	AC	700	18	24	13	8'	
SSAC-2-4	TOWER LEVEL 2 COMM	AC	700	18	24	13	8'	
SSAC-3-1	TOWER LEVEL 3 COMM	AC	700	18	24	13	8'	
SSAC-4-1	TOWER LEVEL 4 COMM	AC	700	18	24	13	8'	

NOTES:
1. DESIGN CONDITIONS:

	SUMMER	WINTER
OUTSIDE	94°F DB, 78°F WB	25°F
ELECTRICAL ROOM	90°F DB	50°F
COMMUNICATIONS ROOM	78°F DB	70°F, 30% RH

2. TYPE:
   AC COOLING ONLY
3. INDOOR UNIT CFM IS BASED ON MEDIUM FAN SPEED.
4. BASED ON 76°F DB 63°F WB ENTERING INDOOR COIL, AND 105°F DB ENTERING OUTSIDE COIL.
5. INTEGRAL CONDENSATE PUMP

PUMP SCHEDULE

NO.	SERVICE	TYPE (NOTE 1)	GPM	TOTAL DYNAMIC HEAD, FT. WG	MINIMUM EFFICIENCY, %	RPM	MOTOR MINIMUM HP	MOTOR MAXIMUM BRAKE HP	VIBRATION ISOLATION TYPE	VIBRATION ISOLATION MINIMUM STATIC DEFLECTION, IN.	VIBRATION ISOLATION INERTIA BASE	NOTES
PCHP-1-1	PRIMARY CHILLED WATER	E	200	90	70	1760	10	8.5	FS	1	Y	2
PCHP-1-2	PRIMARY CHILLED WATER	E	200	90	70	1760	10	8.5	FS	1	Y	2
SCHP-1-1	PRIMARY CHILLED WATER	E	200	75	70	1760	10	6.8	FS	1	Y	2
SCHP-1-2	PRIMARY CHILLED WATER	E	200	75	70	1760	10	6.8	FS	1	Y	2

NOTES:
1. TYPE:
   E END-SUCTION
2. REFER TO THE ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.
3. FULLY REDUNDANT PUMPS.
4. PROVIDE VARIABLE FREQUENCY DRIVE FOR ALL MOTORS.
5. PROVIDE EMERGENCY POWER

GENERAL SCHEDULE NOTES:
1. ALL SCHEDULE NOTES APPLY TO SCHEDULES. NOTES SPECIFIC TO INDIVIDUAL EQUIPMENT ARE INDICATED IN "NOTES" COLUMN.

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: HVAC SCHEDULES

DATE:
CURRENT: 2020.11.20
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SHEET: M-501

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FINNED TUBE RADIATION SCHEDULE

NO.	TYPE (NOTE 1)	MINIMUM ACTIVE LENGTH (FT.)	MINIMUM CAPACITY, kW	NOTES
FTR-1-1	ADB	6	1.5	2
FTR-1-2	ADB	6	1.5	2
FTR-1-3	ADB	6	1.5	2
FTR-1-4	ADB	6	1.5	2
FTR-1-5	ADB	6	1.5	2
FTR-1-6	ADB	6	1.5	2
FTR-1-7	ADB	6	1.5	2
FTR-1-8	ADB	8	2.0	2
FTR-1-9	ADB	8	2.0	2
FTR-1-10	ADB	8	2.0	2
FTR-1-11	ADB	8	2.0	2
FTR-1-12	ADB	8	2.0	2
FTR-1-13	ADB	8	2.0	2
FTR-1-13	ADB	8	2.0	2
FTR-1-14	ADB	8	2.0	2
FTR-1-19	ADB	8	2.0	2
FTR-1-20	ADB	8	2.0	2
FTR-1-21	ADB	8	2.0	2

NOTES:
1. TYPE:
   ADB ARCHITECTURAL DRAFT BARRIER
2. PROVIDE WITH INTEGRAL DISCONNECT
3. REFER TO THE ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.

SOUND ATTENUATOR SCHEDULE

NO.	SERVICE	TYPE (NOTE 1)	NOMINAL DIMENSIONS, IN. LENGTH (NOTE 2)	WIDTH / INSIDE DIAMTER	HEIGHT / OUTSIDE DIAMETER	VELOCITY, FT/MIN (NOTE 3)	MAXIMUM APD, IN. WG	MINIMUM DYNAMIC INSERTION LOSS, dB OCTAVE BAND CENTER FREQUENCY, Hz. 63	125	250	500	1000	2000	4000	8000	MAXIMUM GENERATED NOISE, dB MINIMUM DYNAMIC INSERTION LOSS, dB 63	125	250	500	1000	2000	4000	8000	NOTES
SA-4-1S	RTU-R-4 SUPPLY	R	36	72	24	1,880	0.14																	

NOTES:
1. TYPE:
   R RECTANGULAR
2. ELBOW SOUND ATTENUATOR LENGTHS SHOWN ARE COMBINED CENTERLINE LENGTHS.
3. FORWARD AIRFLOW (+), REVERSE AIRFLOW(-).
4. AIR FLOW AND INSERTION LOSS PERFORMANCE SHALL BE IN ACCORDANCE WITH ASTM E477-2006a.
5. PROVIDE ____" Ø CONNECTIONS TO ROUND DUCTWORK. BLANK OFF AND SEAL UNUSED FACE AREA.
6. DO NOT PROVIDE ACOUSTICAL STANDOFF OR SPACER BETWEEN PERFORATED METAL FACER AND ENCAPSULATION.
7. TOTAL AREA OF SILENCERS SHALL COMPLETELY ENCOMPASS THE TOTAL SURFACE AREA OF LOUVER.
8. SECURE BANK SILENCERS TO PER MANUFACTURER'S RECOMMENDATION.
9. PROVIDE HIGH TRANSMISSION LOSS CASING.
10. CASING CONSTRUCTION SHALL BE STAINLESS STEAL.
11. EXTENDED CASING TYPE IS AN ACCEPTABLE ALTERNATE IF RECTANGULAR TYPE DOES NOT MEET SCHEDULED REQUIREMENT.

UNIT HEATER SCHEDULE

NO.	AREA SERVED	TYPE (NOTE 1)	CAPACITY, kW (NOTE 2)	NOMINAL CFM	MOUNTING HEIGHT, FT (NOTE 3)	NOTES
UH-1-1	STAIR 1	W	4	100	1	4
UH-1-2	STAIR 2	W	4	100	1	4
UH-1-3	STAIR 3	W	4	100	1	4
UH-1-4	PUMP ROOM	W	1.5	100	1	4
UH-1-5	HVAC ROOM	W	1.5	100	1	4

NOTES:
1. TYPE:
   W WALL
2. kW FOR ELECTRIC. BASED ON 60°F EAT.
3. FOR EXPOSED HORIZONTAL AND VERTICAL TYPES ONLY. HEIGHT IS TO CENTERLINE OF HEATER ABOVE FINISHED FLOOR.
4. REFER TO THE ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.

FAN SCHEDULE

NO.	AREA SERVED	TYPE (NOTES 1 & 2)	CFM	STATIC PRESSURE, IN.WG	MAXIMUM RPM	MOTOR MINIMUM HP	MOTOR MAXIMUM BRAKE HP	DRIVE (NOTE 3)	VIBRATION ISOLATION TYPE	VIBRATION ISOLATION MINIMUM STATIC DEFLECTION, IN.	NOTES
EF-2-1	SERVER (271)	C-B	750	0.3	1725	0.25	0.13	D	FS	1	4
EF-R-1	OFFICE EXHAUST	C-B	4,500	0.75	540	1	0.42	B	FS	1	4

NOTES:
1. TYPE:
   C CENTRIFUGAL
2. WHEEL TYPE:
   B BACKWARD-INCLINED
3. DRIVE:
   B BELT
   D DIRECT
4. REFER TO THE ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.
5. EC MOTOR

GENERAL SCHEDULE NOTES:

1. ALL SCHEDULE NOTES APPLY TO SCHEDULES. NOTES SPECIFIC TO INDIVIDUAL EQUIPMENT ARE INDICATED IN "NOTES" COLUMN.

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CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.3111 FAX. 910.790.9901
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
HVAC SCHEDULES

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
M-502

TI GMP SET

11/19/2020 3:01:23 PM

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1 2 3 4 5 6

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

TERMINAL UNIT SCHEDULE LEVEL 1

NO.	TYPE (NOTE 1)	PRIMARY AIRFLOW, CFM			FAN CFM	ELECTRIC HEATING COIL		SOUND POWER LEVEL, dB (NOTE 3)					
								OCTAVE BAND					
								CASING RADIATED			DISCHARGE		
		MAXIMUM COOLING	MINIMUM	HEATING MAXIMUM		CAPACITY kW (NOTE 2)	NO. STEPS	2	3	4	2	3	4
S100	CVS-R	1120	280	340	1120	8	6						
S101	CVS-R	1170	290	350	1170	8	6						
S102	FPP-R	130	30	70	70	1	2						
S103	VV	220	70										
S104	VV	225	70										
S105	FPP-R	250	60	130	130	1	2						
S106	VV	220	70										
S107	VV	170	50										
S108	VV	330	100										
S109	VV	220	70										
S110	CV	480	480										
S111	CV	480	480										
S112	FPP-R	320	80	160	160	1	2						
S113	VV	3480	1040										
S114	VV	3150	950										
S115	FPP-R	2325	580	1160	1160	7	6						
S116	VV	405	100	200	200	2	4						
S117	FPP-R	840	210	420	420	4	6						
S118	FPP-R	365	90	180	180	2	4						
S119	FPP-R	1890	470	950	950	8	6						
S120	VV	1000	300										
S121	FPP-R	870	220	440	440	4	6						
S122	VV	1620	490										
S123	VV	1620	490										
S124	CVS-R	1470	370	440	1470	10	6						
S125	CVS-R	2480	620	740	2480	16	6						
S126	VV	110	30										
S127	VV	110	30										
S128	VV	80	20										
S129	VV	80	20										
S130	VV	80	20										
S131	FPP-R	160	40	80	80	1	2						
S132	VV	220	70										
S133	CV	600	600										
S134	CV	400	400										
S135	VV	175	50										
S136	CV	300	300										
S137	CV	300	300										
S138	VV	220	70										
S139	FPP-R	850	210	430	430	4	6						
S140	VV	315	90										
S141	VV	160	50										
S142	FPP-R	420	110	210	210	2	4						
S143	VV	100	30										
S144	VV	250	80										
S145	FPP-R	1785	450	890	890	8	6						
S146	VV	420	130										
S147	VV	300	90										
S148	VV	390	120										

TERMINAL UNIT SCHEDULE LEVEL 2

NO.	TYPE (NOTE 1)	PRIMARY AIRFLOW, CFM			FAN CFM	ELECTRIC HEATING COIL		SOUND POWER LEVEL, dB (NOTE 3)					
								OCTAVE BAND					
								CASING RADIATED			DISCHARGE		
		MAXIMUM COOLING	MINIMUM	HEATING MAXIMUM		CAPACITY kW (NOTE 2)	NO. STEPS	2	3	4	2	3	4
S200	CVS-R	170	40	50	170	2	4						
S201	CVS-R	150	40	50	150	1	2						
S202	CVS-R	500	130	150	500	4	6						
S203	CVS-R	400	100	120	400	3	6						
S204	CVS-R	270	70	80	270	2	4						
S205	CVS-R	400	100	120	400	3	6						
S206	CVS-R	500	130	150	500	4	6						
S207	CVS-R	1300	330	390	1300	9	6						
S208	CVS-R	1010	250	300	1010	7	6						
S209	CVS-R	500	130	150	500	4	6						
S210	FPP-R	235	60	120	120	1	2						
S211	FPP-R	80	20	40	40	1	2						
S212	FPP-R	305	80	150	150	1	2						
S213	VV-R	300	90	150		0.5	1						
S214	VV-R	300	90	150		0.5	1						
S215	FPP-R	510	130	260	260	2	4						
S216	FPP-R	280	70	140	140	1	2						
S217	FPP-R	770	190	390	390	3	6						
S218	FPP-R	800	200	400	400	3	6						
S219	FPP-R	700	180	350	350	3	6						
S220	FPP-R	800	200	400	400	3	6						
S221	VV	250	80										
S222	VV	255	80										
S223	VV	170	50										
S224	VV	195	60										
S225	FPP-R	1220	310	610	610	4	6						
S226	FPP-R	1120	280	560	560	4	6						
S227	FPP-R	700	180	350	350	3	6						
S228	VV	50	20										
S229	VV	50	20										
S230	VV	50	20										
S231	VV	50	20										
S232	VV	150	50										
S233	VV	160	50										
S234	VV	150	50										
S235	VV	210	60										
S236	VV	150	50										
S237	VV	250	80										
S238	CV	300	300										
S239	CV	300	300										
S240	VV	500	150										
S241	FPP-R	190	50	100	100	1	2						
S242	VV	120	40										
S243	FPP-R	290	70	150	150	1	2						
S244	FPP-R	810	200	410	410	3	6						
S245	FPP-R	1035	260	520	520	4	6						
S246	FPP-R	540	140	270	270	2	4						
S247	VV	340	100										
S248	VV	230	70										
S249	VV	195	60										
S250	FPP-R	120	30	60	60	1	2						
S251	VV	100	30										
S252	VV	1800	540										
S253	VV	2340	700										
S254	VV	340	100										
S255	VV	75	20										

NOTES:

1. TYPE:
   - VV VARIABLE VOLUME - R REHEAT
   - FPS FAN-POWERED, SERIES
   - FPP FAN-POWERED, PARALLEL
   - CV CONSTANT VOLUME
2. CAPACITY BASED ON 55°F EAT FOR VV-R AND CV-R UNITS, AND 66°F EAT FOR FPS AND FPP UNITS.
3. SEE SPECIFICATIONS FOR AHRI TESTING/CERTIFICATION REQUIREMENTS AND SUPPLEMENTAL SOUND ATTENUATION REQUIREMENTS. FOR TERMINAL UNITS WHERE THE SOUND POWER LEVEL FIELDS OF THE SCHEDULE ABOVE ARE LEFT BLANK, THE MAXIMUM ALLOWABLE SOUND POWER LEVELS IN dB @ 10 pW, SHALL BE OF THE FOLLOWING LEVELS:

	OCTAVE BAND 2	3	4
CASING RADIATED	71	66	63
DISCHARGE, LESS THAN 900 CFM	66	63	59
DISCHARGE, 900 CFM OR MORE	68	63	61

   LEVELS BASED ON MAXIMUM PRIMARY CFM AND MINIMUM DIFFERENTIAL STATIC PRESSURE OF 1" WG FOR VV AND CV UNITS, AND FAN CFM FOR FPS AND FPP UNITS.
4. DIFFERENTIAL STATIC PRESSURE DROP ACROSS COMPLETE ASSEMBLY, INCLUDING HEATING COIL, FOR ALL UNITS SHALL NOT EXCEED 0.3" WG APD.
5. SELECT FAN-POWERED UNITS FOR SCHEDULED CAPACITY AT MEDIUM SPEED AND 0.25" WG EXTERNAL STATIC PRESSURE.
6. REFER TO THE ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.
7. THE DRAWINGS INDICATE THE DESIGN INTENT TO PROVIDE ACCESS TO HEATING COILS, CONTROL PANELS, AND ACCESS DOORS. IF TERMINAL UNITS PROVIDED ARE CONFIGURED DIFFERENTLY, THE ACCESS REQUIREMENTS SHALL BE ADJUSTED IN THE FIELD.

GENERAL SCHEDULE NOTES:

1. ALL SCHEDULE NOTES APPLY TO SCHEDULES. NOTES SPECIFIC TO INDIVIDUAL EQUIPMENT ARE INDICATED IN "NOTES" COLUMN.

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Consulting Engineering Group
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Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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SHEET NAME:
HVAC SCHEDULES

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
M-503

TI GMP SET

11/19/2020 3:01:24 PM

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

TERMINAL UNIT SCHEDULE LEVEL 3

NO.	TYPE (NOTE 1)	PRIMARY AIRFLOW, CFM			FAN CFM	ELECTRIC HEATING COIL		SOUND POWER LEVEL, dB (NOTE 3)					
								OCTAVE BAND					
								CASING RADIATED			DISCHARGE		
		MAXIMUM COOLING	MINIMUM	HEATING MAXIMUM		CAPACITY kW (NOTE 2)	NO. STEPS	2	3	4	2	3	4
S300	FPP-R	720	180	360	360	3	6						
S301	FPP-R	550	140	280	280	2	4						
S302	FPP-R	560	140	280	280	2	4						
S303	FPP-R	325	80	160	160	1	2						
S304	FPP-R	690	170	350	350	3	6						
S305	VV	195	60										
S306	VV	170	50										
S307	VV	150	50										
S308	VV	495	150										
S309	VV	270	80										
S310	VV	180	50										
S311	VV	180	50										
S312	VV	375	110										
S313	FPP-R	680	170	340	340	3	6						
S314	FPP-R	790	200	400	400	3	6						
S315	FPP-R	190	50	100	100	1	2						
S316	FPP-R	1040	260	520	520	4	6						
S317	CV	50	20										
S318	CV	50	20										
S319	CV	50	20										
S320	CV	50	20										
S321	VV	150	50										
S322	VV	160	50										
S323	VV	150	50										
S324	VV	160	50										
S325	VV	150	50										
S326	VV	500	150										
S327	CV-R	300	90	150		0.5	1						
S328	CV	300	90										
S329	FPP-R	100	30	50	30	1	2						
S330	FPP-R	130	30	70	70	1	2						
S331	VV	120	40										
S332	FPP-R	170	40	90	90	1	2						
S333	FPP-R	120	30	60	60	1	2						
S334	VV	120	40										
S335	FPP-R	240	60	120	120	1	2						
S336	FPP-R	300	80	150	150	1	2						
S337	FPP-R	560	140	280	280	2	4						
S338	FPP-R	690	170	350	350	3	6						
S339	FPP-R	805	200	400	400	3	6						
S340	VV	305	90										
S341	VV	330	100										
S342	VV	170	50										
S343	VV	195	60										
S344		250	80										
S345	FPP-R	60	20	30	30	1	2						
S345	FPP-R	630	160	320	320	2	4						
S346	VV	120	40										
S347	FPP-R	700	180	350	350	3	6						
S348	FPP-R	800	200	400	400	3	6						
S349	VV	220	70										
S352	CV	340	100										

TERMINAL UNIT SCHEDULE LEVEL 4

NO.	TYPE (NOTE 1)	PRIMARY AIRFLOW, CFM			FAN CFM	ELECTRIC HEATING COIL		SOUND POWER LEVEL, dB (NOTE 3)					
								OCTAVE BAND					
								CASING RADIATED			DISCHARGE		
		MAXIMUM COOLING	MINIMUM	HEATING MAXIMUM		CAPACITY kW (NOTE 2)	NO. STEPS	2	3	4	2	3	4
S400	FPP-R	910	230	460	460	3	6						
S401	FPP-R	435	110	220	220	2	4						
S402	FPP-R	570	140	290	290	2	4						
S403	VV-R	180	50	90		0.5	1						
S404	VV-R	225	70	110		0.5	1						
S405	VV-R	225	70	110		0.5	1						
S406	FPP-R	900	230	450	450	3	6						
S407	VV-R	200	60	100		0.5	1						
S408	VV-R	270	80	140		0.5	1						
S409	VV-R	270	80	140		0.5	1						
S410	VV-R	320	100	160		0.5	1						
S411	FPP-R	320	80	160	160	1	2						
S412	FPP-R	690	170	350	350	3	6						
S413	FPP-R	675	170	340	340	3	6						
S414	VV-R	245	70	120		0.5	1						
S415	VV-R	115	30	60		0.5	1						
S416	VV-R	500	150	250		1	2						
S417	VV-R	60	20	30		0.5	1						
S418	VV-R	60	20	30		0.5	1						
S419	VV-R	60	20	30		0.5	1						
S420	VV-R	50	20	30		0.5	1						
S421	VV-R	90	30	50		0.5	1						
S422	VV-R	285	90	140		0.5	1						
S423	VV-R	180	50	90		0.5	1						
S424	VV-R	180	50	90		0.5	1						
S425	VV-R	520	160	260		1	2						
S426	CV-R	300	90	150		0.5	1						
S427	CV-R	300	90	150		0.5	1						
S428	VV-R	600	180	300		1	2						
S429	VV-R	90	30	50		0.5	1						
S430	VV-R	460	140	230		1	2						
S431	FPP-R	85	20	40	40	1	2						
S432	VV-R	200	60	100		0.5	1						
S433	FPP-R	600	150	300	300	2	4						
S434	FPP-R	290	70	150	150	1	2						
S435	FPP-R	70	20	40	40	1	2						
S436	VV-R	65	20	30		0.5	1						
S437	FPP-R	1080	270	540	540	4	6						
S438	FPP-R	540	140	270	270	2	4						
S439	FPP-R	450	110	230	230	2	4						
S440	VV-R	290	90	150		0.5	1						
S441	VV-R	180	50	90		0.5	1						
S442	VV-R	270	80	140		0.5	1						
S443	VV-R	130	40	70		0.5	1						
S444	VV-R	130	40	70		0.5	1						
S445	VV-R	230	70	120		0.5	1						
S446	VV-R	130	40	70		0.5	1						
S447	VV-R	275	80	140		0.5	1						
S448	FPP-R	200	50	100	100	1	2						
S449	FPP-R	680	170	340	340	3	6						
S450	FPP-R	680	170	340	340	3	6						
S451	FPP-R	420	110	210	210	2	4						
S452	FPP-R	170	40	90	90	1	2						
S453	VV-R	180	50	90		0.5	1						
S454		340	100										
S454	VV-R	100	30	50		0.5	1						

NOTES:

1. TYPE:
   - VV VARIABLE VOLUME - R REHEAT
   - FPS FAN-POWERED, SERIES
   - FPP FAN-POWERED, PARALLEL
   - CV CONSTANT VOLUME
2. CAPACITY BASED ON 55°F EAT FOR VV-R AND CV-R UNITS, AND 66°F EAT FOR FPS AND FPP UNITS.
3. SEE SPECIFICATIONS FOR AHRI TESTING/CERTIFICATION REQUIREMENTS AND SUPPLEMENTAL SOUND ATTENUATION REQUIREMENTS. FOR TERMINAL UNITS WHERE THE SOUND POWER LEVEL FIELDS OF THE SCHEDULE ABOVE ARE LEFT BLANK, THE MAXIMUM ALLOWABLE SOUND POWER LEVELS IN dB @ 10 pW, SHALL BE OF THE FOLLOWING LEVELS:

	OCTAVE BAND 2	3	4
CASING RADIATED	71	66	63
DISCHARGE, LESS THAN 900 CFM	66	63	59
DISCHARGE, 900 CFM OR MORE	68	63	61

   LEVELS BASED ON MAXIMUM PRIMARY CFM AND MINIMUM DIFFERENTIAL STATIC PRESSURE OF 1" WG FOR VV AND CV UNITS, AND FAN CFM FOR FPS AND FPP UNITS.
4. DIFFERENTIAL STATIC PRESSURE DROP ACROSS COMPLETE ASSEMBLY, INCLUDING HEATING COIL, FOR ALL UNITS SHALL NOT EXCEED 0.3" WG APD.
5. SELECT FAN-POWERED UNITS FOR SCHEDULED CAPACITY AT MEDIUM SPEED AND 0.25" WG EXTERNAL STATIC PRESSURE.
6. REFER TO THE ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.
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1. ALL SCHEDULE NOTES APPLY TO SCHEDULES. NOTES SPECIFIC TO INDIVIDUAL EQUIPMENT ARE INDICATED IN "NOTES" COLUMN.

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N&B PROJECT: 19N342
Firm License No. F-0312

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SHEET NAME:
HVAC SCHEDULES

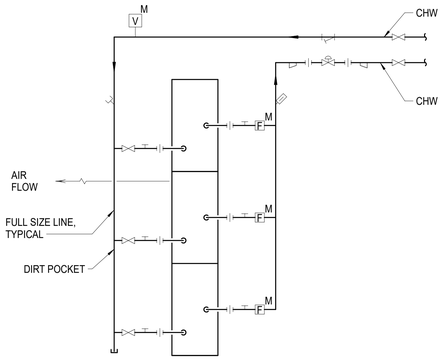
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-504

TI GMP SET

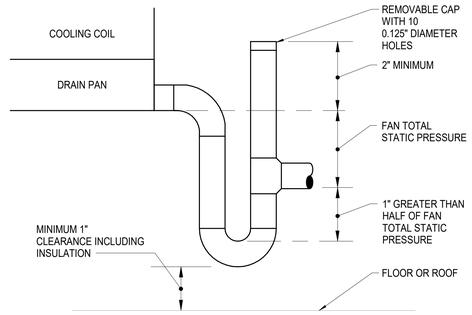
11/19/2020 3:01:24 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLOTTED



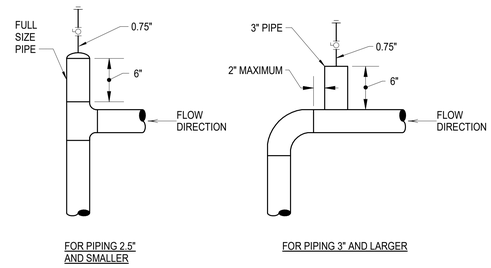
NOTES:
1. COIL CONNECTIONS SHALL BE ARRANGED TO ACCOMMODATE COIL PULL AND TO ISOLATE COIL PIPING FROM SYSTEM.
2. PROVIDE MEANS OF DRAINING AND VENTING EACH COIL.
3. DELETE INDIVIDUAL COIL ISOLATION VALVES IN SINGLE COIL APPLICATIONS.

1 M-601 WATER COILS WITH 2-WAY VALVES IN AHUs — NTS



NOTES:
1. PIPING SHALL BE FULL SIZE OF DRAIN CONNECTION.
2. EXTEND DRAIN PIPING AS INDICATED ON THE DRAWINGS OR TO THE NEAREST INDIRECT WASTE RECEPTOR FLOOR DRAIN OR ROOF RECEPTOR ADJACENT TO EQUIPMENT.
3. WHERE SUPPORTED, ISOLATE DRAIN PIPING FROM CLAMPS WITH TYPE PI ISOLATORS.

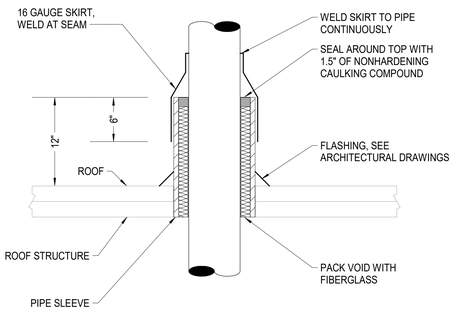
2 M-601 CONDENSATE DRAIN FOR DRAW THROUGH COOLING COILS — NTS



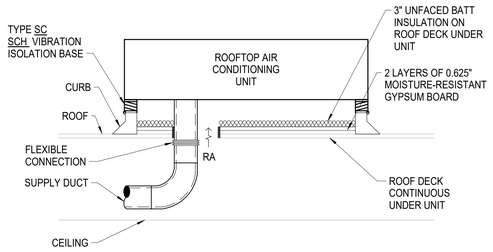
FOR PIPING 2.5" AND SMALLER

FOR PIPING 3" AND LARGER

3 M-601 MANUAL AIR VENTS — NTS

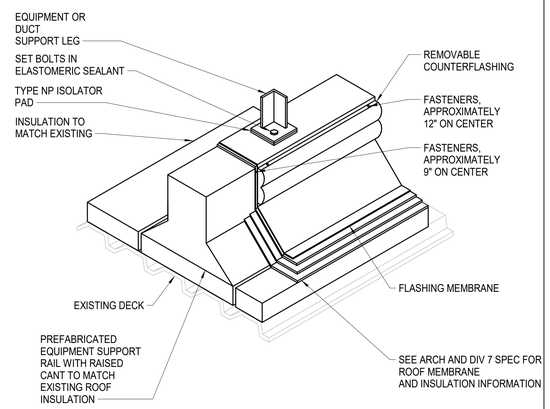


4 M-601 PIPING ROOF PENETRATIONS — NTS

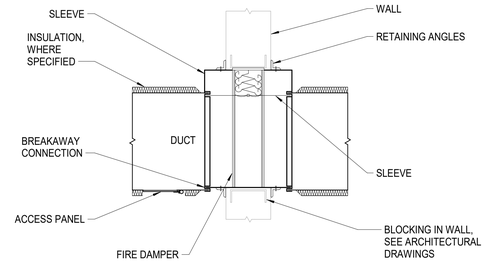


NOTES:
1. SEE DETAIL FOR CONDENSATE DRAIN PIPING.
2. GYPSUM BOARD JOINTS SHALL BE STAGGERED AND TAPED AND SEALED.
3. VENDOR TO PROVIDE CUSTOM CURB TO ALLOW RETURN PLENUM CONNECTION AS SHOWN.

5 M-601 ROOFTOP AIR CONDITIONING UNITS — NTS



6 M-601 EQUIPMENT SUPPORT RAILS — NTS



NOTES:
1. INSTALL DAMPERS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
2. TAPE INSULATION TO DUCT AT BREAKAWAY CONNECTIONS. BREAKAWAY CONNECTIONS AND RETAINING ANGLES SHALL BE VISIBLE.
3. TYPE B FIRE DAMPER SHOWN. INSTALLATION SIMILAR FOR TYPE A AND TYPE C DAMPERS.
4. INSTALLATION SIMILAR FOR COMBINATION FIRE/SMOKE DAMPERS.
5. SEAL BREAKAWAY CONNECTIONS.
6. LOCATE ACCESS PANEL ON SIDE OF WALL WITH NO CEILING, OR OVER CORRIDOR CEILING, WHERE APPLICABLE.

7 M-601 DUCT WALL PENETRATIONS WITH FIRE DAMPER — NTS

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: HVAC DETAILS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: **M-601**

TI GMP SET

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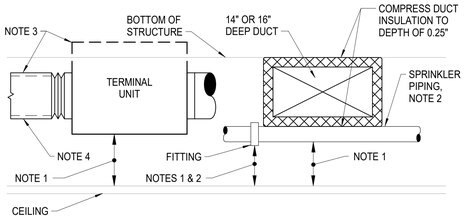
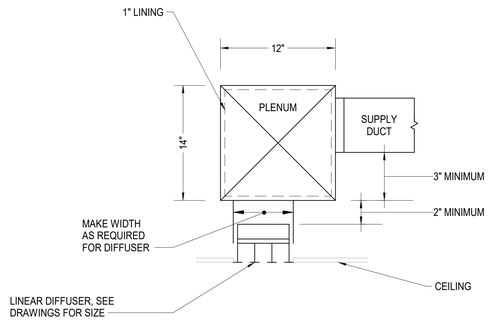


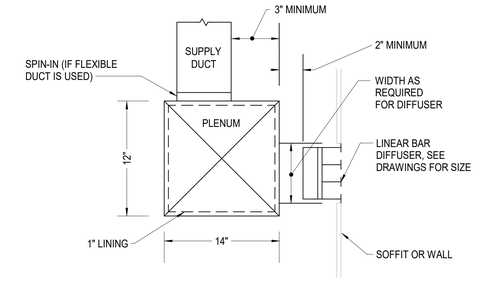
NOTES:
1. MAINTAIN MINIMUM 7" HIGH CLEARANCE FROM BOTTOM OF CEILING FOR LUMINAIRES.
2. DO NOT LOCATE SPRINKLER PIPE FITTINGS UNDER DUCTWORK, DUCTWORK FLANGES, OR TERMINAL UNITS UNLESS 7" CLEARANCE CAN BE MAINTAINED.
3. OFFSET TERMINAL UNITS AND CONNECTING DUCTWORK UP INTO STRUCTURE OR BETWEEN JOISTS TO MAINTAIN 7" CLEARANCE WHERE UNITS HAVE A DEPTH GREATER THAN 16".
4. OFFSET DUCTWORK AND RUNOUTS TO PASS BETWEEN LUMINAIRES TALLER THAN 6.75".
5. OFFSET PIPING, DUCTWORK AND EQUIPMENT TO ACCOMMODATE CEILING COVES AND FRAMING.

1	DUCTWORK INSTALLATION AND COORDINATION	NTS
M-602		



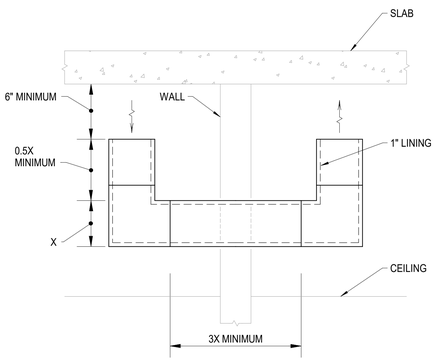
NOTES:
1. NECK AND PLENUM LENGTH SHALL BE DETERMINED BY ACTIVE DIFFUSER LENGTH.
2. DIFFUSER MOUNTING FRAME SHALL BE DETERMINED BY CEILING CONSTRUCTION AND MOUNTING CONDITIONS. SEE ARCHITECTURAL DRAWINGS.
3. TRANSITION AND/OR ADJUST PLENUM DIMENSIONS TO COORDINATE WITH STRUCTURE OR OTHER UTILITIES.
4. SEE DRAWINGS FOR SPECIAL PLENUM SIZES.

2	LINEAR DIFFUSERS	NTS
M-602		



NOTES:
1. NECK AND PLENUM LENGTH SHALL BE DETERMINED BY ACTIVE DIFFUSER LENGTH.
2. DIFFUSER MOUNTING FRAME SHALL BE DETERMINED BY WALL CONSTRUCTION AND MOUNTING CONDITIONS. SEE ARCHITECTURAL DRAWINGS.
3. TRANSITION AND/OR ADJUST PLENUM DIMENSIONS TO COORDINATE WITH STRUCTURE OR OTHER UTILITIES.
4. SEE DRAWINGS FOR SPECIAL PLENUM SIZES.

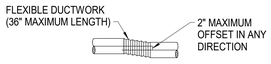
3	SIDEWALL LINEAR DIFFUSERS	NTS
M-602		



NOTES:
1. SEAL WALL PENETRATION AIRTIGHT.
2. DUCTS SHALL BE MINIMUM 22 GAUGE SHEET METAL.
3. SEE FLOOR PLANS FOR DUCT SIZES.

4	TRANSFER DUCTS	NTS
M-602		





FLEXIBLE DUCTWORK CONNECTION

TERMINAL UNIT INLET

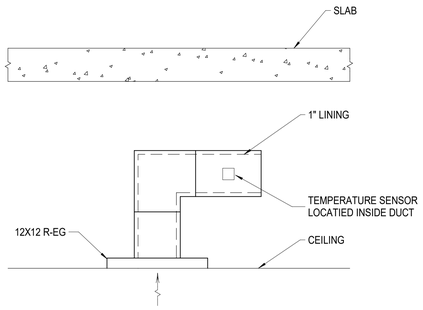
NO SCALE

NOTES:
1. ENTRY DUCT SHALL MATCH INLET COLLAR SIZE, BE INDEPENDENETLY SUPPORTED FROM THE TERMINAL UNIT, AND HAVE A TOTAL LENGTH THAT IS 3 TIMES THE DIAMETER OR WIDTH OF THE INLET COLLAR SIZE.
2. THE RUNOUT FROM THE PRIMARY DUCT TO THE ENTRY DUCT, INCLUDING THE FLEXIBLE DUCT, SHALL BE SIZED AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

INLET COLLAR AND ENTRY DUCT SIZES	RUNOUT FROM PRIMARY TO ENTRY DUCT
4"ø	8"ø
5"ø	8"ø
6"ø	10"ø
7"ø	12"ø
8"ø	12"ø
9"ø	14"ø
10"ø	14"ø
12"ø	16"ø
14"ø	18"ø
16"ø	20"ø
24"X16"	AS INDICATED ON PLANS

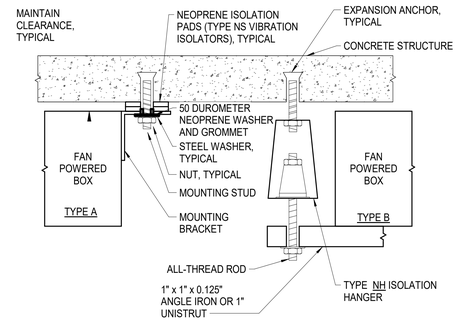
3. FOR ROUND TAKEOFF CONNECTIONS TO ROUND OR FLAT OVAL PRIMARY SUPPLY DUCTS,PROVIDE A CONICAL TAP IN LIEU OF A SIDE TAKEOFF FITTING.
4. FOR AIR HANDLING SYSTEMS WHERE THE PRIMARY SUPPLY DUCT DISTRIBUTION IS PROVIDE A CONICAL TAP IN LIEU OF A SIDE TAKEOFF FITTING. FITTINGS SHALL BE CONCENTRIC TYPE.

5	TERMINAL UNIT INLET	NTS
M-602		



NOTES:
1. DUCTS SHALL BE MINIMUM 22 GAUGE SHEET METAL.
2. 12X12 DUCT UNLESS NOTED OTHERWISE.

6	TRANSFER DUCTS	NTS
M-602		



NOTES:
1. TYPE B MOUNTING ARRANGEMENT SHALL BE USED EXCEPT WHERE SPACE CONSTRAINTS REQUIRE TYPE A MOUNTING.
2. MOUNTING STUDS AND ALL-THREAD RODS SHALL BE MINIMUM 0.25" DIAMETER.

7	FAN COIL UNIT MOUNTINGS WITH VIBRATION ISOLATION	NTS
M-602		

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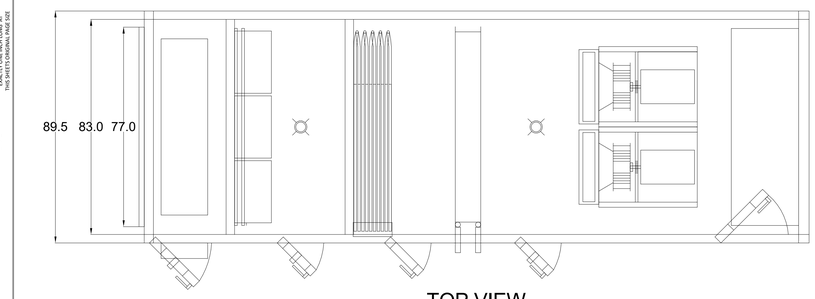
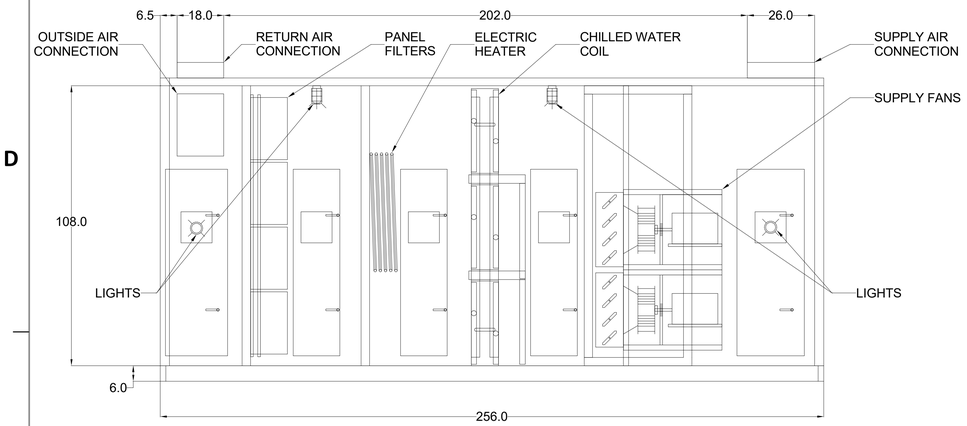
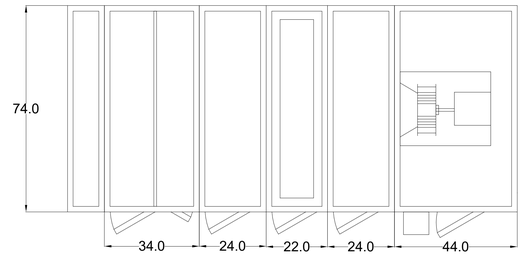


TOP VIEW

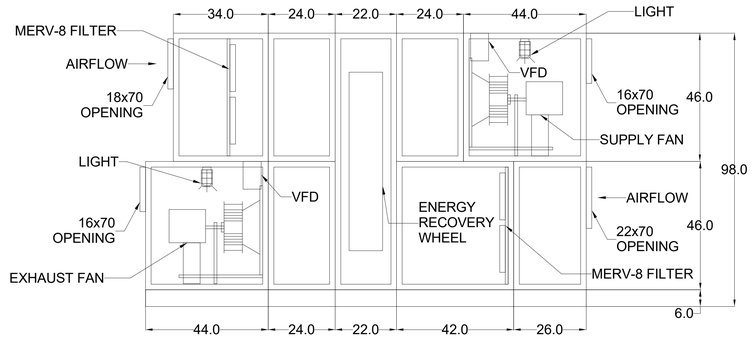


SIDE VIEW ALL DIMENSIONS ARE MAXIMUM ALLOWABLE

1 M-603	AIR HANDLING UNIT	NTS

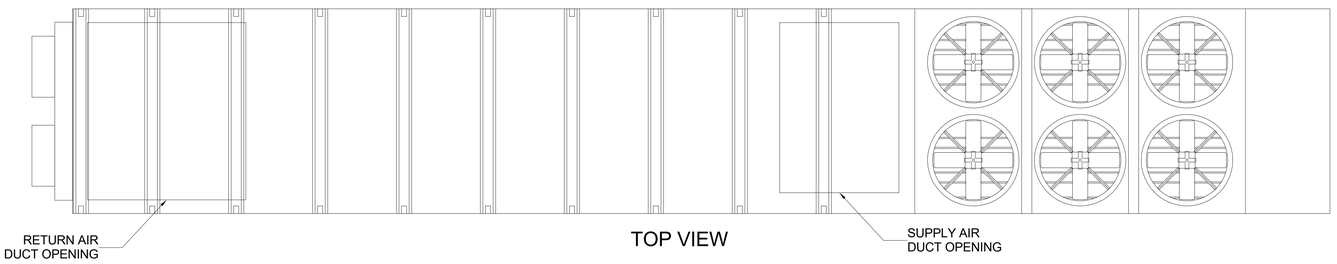


TOP VIEW

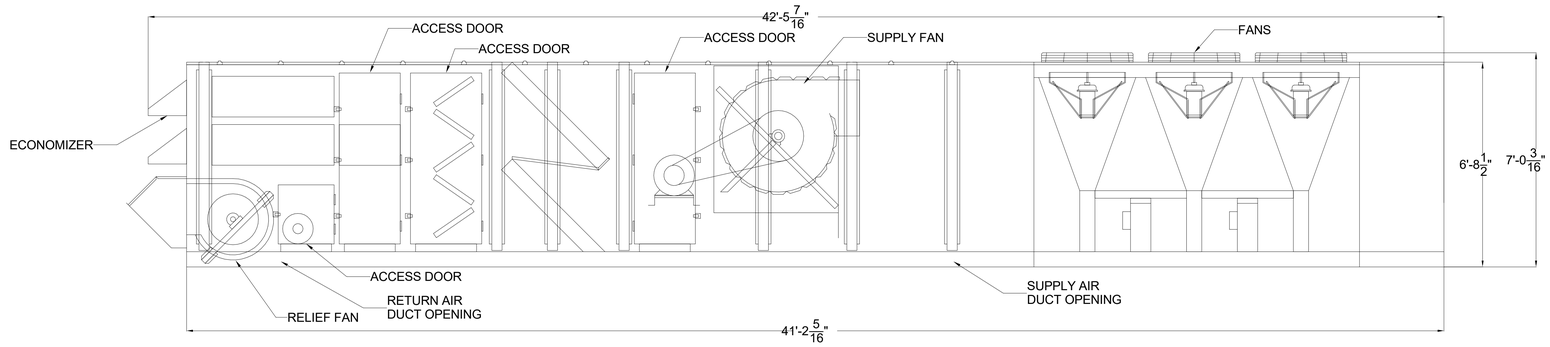


SIDE VIEW ALL DIMENSIONS ARE MAXIMUM ALLOWABLE

2 M-603	ENERGY RECOVERY UNIT	NTS



TOP VIEW



SIDE VIEW ALL DIMENSIONS ARE MAXIMUM ALLOWABLE

3 M-603	ROOFTOP UNIT	NTS

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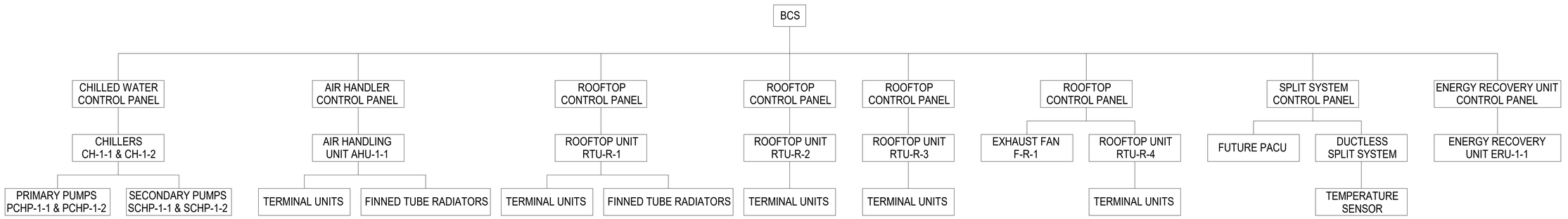
HVAC CONTROLS GENERAL NOTES:

1. VARIABLE SPEED CONTROLS:
   A. VARIABLE FREQUENCY DRIVES SHALL START AT LOW SPEED. WHEN 2 OR MORE VARIABLE SPEED FANS OPERATE IN PARALLEL, THEIR SPEEDS SHALL BE SYNCHRONIZED AND CONTROLLED FROM A COMMON SIGNAL.
   B. WHEN VARIABLE SPEED PUMPS OPERATE IN PARALLEL WITH CONSTANT SPEED PUMPS, THE BCS CONTROLLER SYSTEM SHALL OPERATE AND MAINTAIN THE VARIABLE SPEED PUMPS AT FULL SPEED WHENEVER A CONSTANT SPEED PUMP IS IN OPERATION.
   C. VARIABLE FREQUENCY DRIVES SHALL NOT OPERATE BELOW THE MINIMUM SPEED SET ON ITS CONTROL PANEL. MINIMUM SPEED SETTING SHALL BE DETERMINED DURING SYSTEM COMMISSIONING AND SHALL NOT BE LOWER THAN THE MOTOR MANUFACTURER'S RECOMMENDATION.
   D. EQUIPMENT SAFETIES SHALL BE WIRED INTO VARIABLE FREQUENCY DRIVE CONTROL CIRCUITS.
2. INDICATION OF EQUIPMENT OPERATING STATUS AND ACTUATION OF CONTROL SEQUENCES SHALL BE ACCOMPLISHED BY CURRENT SENSING RELAYS UNLESS OTHERWISE INDICATED IN THE I/O SUMMARIES.
3. UPON POWER FAILURE AND RESTORATION, SYSTEMS SHALL AUTOMATICALLY RESTART AND RETURN TO THEIR NORMAL MODE OF OPERATION. ADJUSTABLE TIME DELAYS SHALL BE PROVIDED TO SEQUENTIALLY STAGE STARTING OF EQUIPMENT WITH MOTORS GREATER THAN 5 HP OR ELECTRIC HEATING LOADS GREATER THAN 4 kW.
4. HAND-OFF-AUTOMATIC SWITCHES:
   A. SAFETY DEVICES, INCLUDING FIRE ALARM SYSTEM RELAYS AND EMERGENCY FAN SHUTDOWN STATIONS, SHALL BE WIRED IN SERIES WITH THE MOTOR CONTROLLER HOLDING COIL CIRCUIT AND SHALL BE ACTIVE IN THE HAND AND AUTOMATIC POSITIONS.
   B. INTERLOCKING WITH OTHER FANS, EQUIPMENT, OR SYSTEMS OTHER THAN THOSE REQUIRED FOR THE OPERATION OF THE SPECIFIC EQUIPMENT SHALL BE THROUGH AUTOMATIC POSITIONS ONLY.
   C. REMOTE CONTROL FROM THE BCS SYSTEM SHALL BE THROUGH AUTOMATIC POSITIONS.
   D. HAND POSITION SHALL BE FOR MAINTENANCE OPERATION ONLY.
   E. OPERATION IN HAND POSITION SHALL ENERGIZE ASSOCIATED DAMPERS AND EQUIPMENT NECESSARY TO ALLOW OPERATION.
5. CONTROLS SHALL FAIL AS SPECIFIED HEREIN, OR TO MINIMIZE POSSIBILITY OF DAMAGE ON FAILURE IF NOT SPECIFIED HEREIN.
6. CONTROL SETPOINTS SHALL BE ADJUSTABLE OVER THE RANGE OF THE SENSED MEDIA. MEANS OF ADJUSTMENT AND CURRENT SETPOINT SHALL BE IDENTIFIED. BCS SETPOINTS AND ALARM LIMITS SHALL BE PROGRAMMED AS VARIABLES, EXPRESSED IN THE APPROPRIATE ENGINEERING UNITS, WHICH CAN BE ADJUSTED THROUGH THE DIGITAL DISPLAY UNIT OR FROM A CENTRAL STATION WITHOUT REQUIRING MODIFICATION OR RELOADING OF THE BCS CONTROL PROGRAMS. CONTROL, ALARM, AND LIMIT SETPOINTS FOR EACH BCS CONTROLLER SHALL BE DISPLAYED AND SHALL BE ADJUSTABLE FROM AN APPROPRIATELY PASSWORD-PROTECTED TABULAR GRAPHIC DISPLAY ASSOCIATED WITH THE APPROPRIATE EQUIPMENT. SETPOINTS OR ALARM LIMITS COMMON TO MULTIPLE CONTROL ALGORITHMS SHALL BE CONFIGURED AS A COMMON VARIABLE, REQUIRING A SINGLE ADJUSTMENT. PROVIDE AND ADJUST TIME DELAYS FOR SMOOTH AND SAFE OPERATION OF SYSTEMS.
7. CONTROL OUTPUTS SHALL PROVIDE MAXIMUM RATED ACTUATOR POWER AT EXTREMES OF ACTUATOR TRAVEL. CONTROL OUTPUT RANGE (0%-100%) SHALL CORRESPOND TO ACTUATOR TRAVEL (0%-100%).
8. WHERE SYSTEMS ARE SERVED BY EMERGENCY POWER, CONTROLS FOR OPERATION OF THOSE SYSTEMS SHALL ALSO BE SERVED BY EMERGENCY POWER.
9. WHERE DAMPERS PREVENT AIRFLOW THROUGH AN AIR HANDLING UNIT OR FAN, THOSE DAMPERS SHALL BE PROVEN OPEN PRIOR TO STARTING THE UNIT OR FAN. PROOF SHALL BE BY MECHANICAL SAFETY LIMIT SWITCH ACTIVATED BY THE DAMPER BLADE. THIS SWITCH SHALL BE WIRED IN THE AUTOMATIC AND HAND/TEST POSITIONS.



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E D C B A

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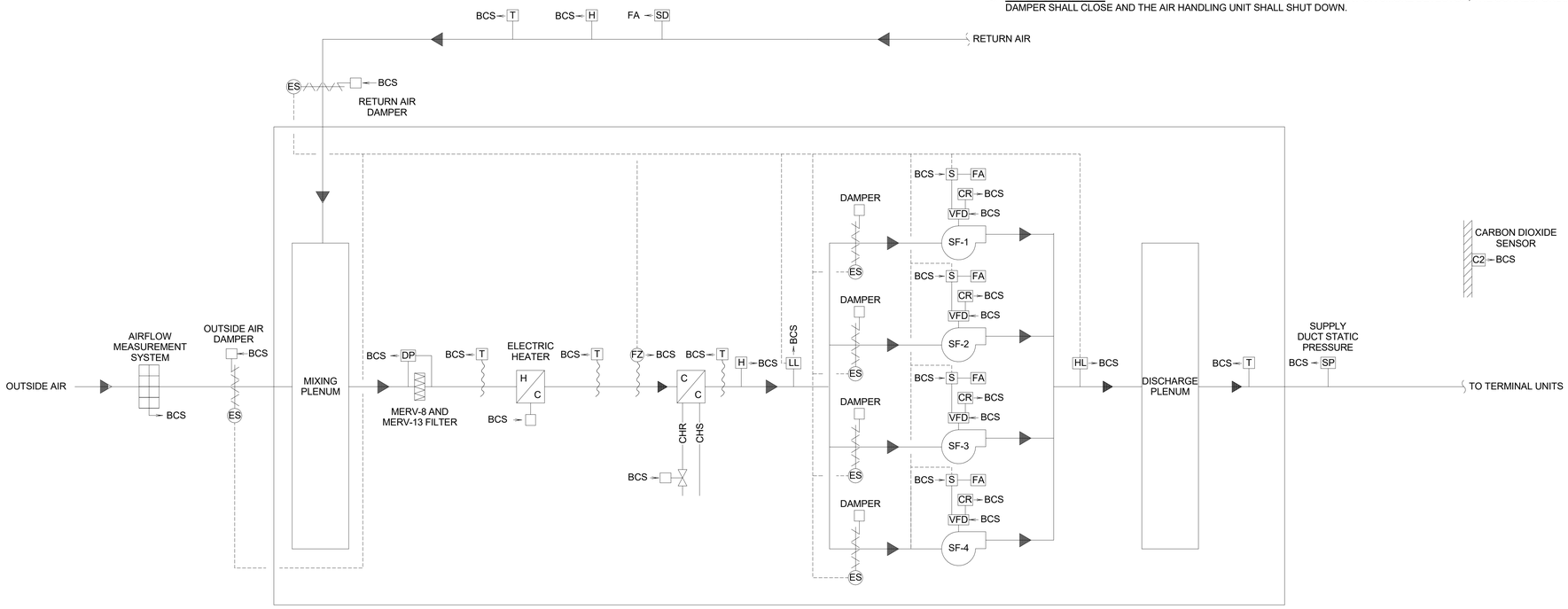
BCS PANEL INPUT/OUTPUT SUMMARY AIR HANDLING UNIT

	OUTPUTS								INPUTS										SOFTWARE											
	DIGITAL				ANALOG				DIGITAL				ANALOG				ALARM		BCS	ENERGY MGMT.										
	SYSTEM GRAPHIC DISPLAY	START/STOP	ENABLE/DISABLE	OPEN/CLOSE	ACTIVATE/DEACTIVATE	SETPOINT ADJUST	BCS CONTROL		CURRENT SENSING RELAY	DIFFERENTIAL PRESSURE SWITCH	AUXILIARY CONTACT	ALARM CONTACT	PULSE CONTACT	TEMPERATURE	RELATIVE HUMIDITY	PRESSURE	FLOW	CARBON DIOXIDE LEVEL	STATUS/INTERLOCK	HIGH/LOW LIMIT	RUN TIME TOTALIZATION	PROPORTIONAL	PROPORTIONAL + INTEGRAL	TIME SCHEDULE START/STOP	OPTIMUM START/STOP	DAY/NIGHT SETBACK	ECONOMIZER	ENERGY METERING	ARCHIVAL SERVER	BAS TREND	FAILURE MODE (NOTES 1 AND 2)	NOTES
AIR HANDLING UNIT (AHU)	X																													
OUTSIDE AIR DAMPER			X				X															X							C	
RETURN AIR DAMPER																													O	
SUPPLY FAN ISOLATION DAMPER			X																											
HEATING COIL DISCHARGE TEMPERATURE														X																
MIXED AIR TEMPERATURE														X																
ELECTRIC PREHEAT COIL				X																										5
CHILLED WATER CONTROL VALVE							X															X							O	
COOLING COIL HUMIDITY															X															
COOLING COIL LEAVING AIR TEMPERATURE														X					X											
SF-1, SF-2, SF-3 AND SF-4 START/STOP	X																												O	4
SF-1, SF-2, SF-3 AND SF-4 VFD SPEED							X															X								
SF-1, SF-2, SF-3 AND SF-4 STATUS									X									X	X											
SYSTEM DISCHARGE AIR TEMPERATURE														X					X											
HIGH PRESSURE SAFETY												X																		
LOW PRESSURE SAFETY												X																		
FILTER DIFFERENTIAL PRESSURE																X			X											
SUPPLY DUCT STATIC PRESSURE																X			X											
RETURN AIR SPACE TEMPERATURE														X					X											
RETURN AIR RELATIVE HUMIDITY															X				X											
OA TEMPERATURE														X					X											3
AIRFLOW MEASUREMENT SYSTEM																	X		X											
SPACE CARBON DIOXIDE LEVEL																		X	X											
MANUAL PUSH BUTTON	X																													

NOTES:
1. FAILURE MODE
   O - ON OR OPEN
   C - OFF OR CLOSE
   L - LAST COMMAND
2. WHERE FAILURE MODE IS INDICATED, THE INDICATED POSITION SHALL OCCUR ON FAILURE OF THE BCS CONTROLLER OR ITS OUPUT FOR ANY REASON.
3. LOCATE OUTSIDE AIR TEMPERATURE SENSOR ON A NORTH FACING WALL OUT OF DIRECT SUNLIGHT.
4. FAN SHALL FAIL TO 50% SPEED.
5. PROVIDE SCR ELECTRIC HEAT CONTROL.



SEQUENCES OF OPERATION

THE CONTROLS FOR SYSTEM AHU-1-1 SHALL FUNCTION AS FOLLOWS:

1. **SYSTEM START-UP :** THE SYSTEM SHALL BE AUTOMATICALLY STARTED AND STOPPED BY THE BCS CONTROLLER WHENEVER THE HAND-OFF-AUTOMATIC SWITCH IS IN THE AUTOMATIC POSITION, AND MANUALLY STARTED AND STOPPED BY THE HAND AND OFF POSITIONS.

2. **DAMPER POSITIONS :** PRIOR TO FAN STARTING, THE RETURN AIR DAMPER AND SUPPLY FAN ISOLATION DAMPER SHALL OPEN. ONCE THE DAMPERS ARE 100% OPEN, AS SENSED BY FEEDBACK FROM THE END SWITCHES, THE OUTSIDE AIR DAMPER SHALL OPEN, AND SUPPLY FANS SHALL START.

3. **UNIT START-UP :** ON UNIT START-UP, THE SYSTEM SHALL RUN. IF OUTSIDE AIR TEMPERATURE IS BELOW 55°F (ADJUSTABLE) CLOSE THE CHILLED WATER VALVE AND MODULATE THE PREHEAT COIL CONTROLLER TO MAINTAIN A SYSTEM DISCHARGE AIR TEMPERATURE SETPOINT OF 55°F. IF OUTSIDE AIR TEMPERATURE IS 55°F (ADJUSTABLE) OR HIGHER, TURN OFF THE ELECTRIC HEATER, AND MODULATE THE CHILLED WATER VALVE TO MAINTAIN A SYSTEM DISCHARGE AIR TEMPERATURE SETPOINT OF 55°F. MODULATE THE SUPPLY FAN VARIABLE FREQUENCY DRIVE TO MAINTAIN SUPPLY DUCT STATIC PRESSURE AT OR ABOVE SETPOINT, AS DETERMINED DURING THE TESTING, ADJUSTING AND BALANCING PROCESS.

4. **PREHEAT COIL CONTROL :** MODULATE THE PREHEAT COIL CONTROLLER TO MAINTAIN A PREHEAT COIL DISCHARGE TEMPERTURE SETPOINT OF 55°F (ADJUSTABLE).

5. **SUPPLY AIR TEMPERATURE RESET :** MODULATE THE CHILLED WATER VALVE IN SEQUENCE TO MAINTAIN SYSTEM DISCHARGE AIR TEMPERATURE SETPOINT. VARY THE SUPPLY AIR TEMPERATURE BETWEEN 50°F AND 55°F IN 1° INCREMENTS EVERY 30 MINUTES TO MAINTAIN SUPPLY AIR TEMPERATURE SETPOINT. OVERRIDE OTHER CONTROLS AND MODULATE THE PREHEAT COIL VALVE TO MAINTAIN COIL DISCHARGE TEMPERATURE SETPOINT SENSED BY AN AVERAGING ELEMENT LOCATED IMMEDIATELY DOWNSTREAM OF THE PREHEAT COIL. THIS CONTROL SHALL REMAIN ACTIVE AT ALL TIMES, INCLUDING UNIT SHUTDOWN.

6. **SUPPLY DUCT STATIC PRESSURE CONTROL :** MODULATE BOTH SUPPLY FANS VARIABLE FREQUENCY DRIVES TO MAINTAIN SUPPLY DUCT STATIC PRESSURE AT OR ABOVE SETPOINT, AS DETERMINED DURING THE TESTING, ADJUSTING AND BALANCING PROCESS.

7. **SUPPLY DUCT STATIC PRESSURE CONTROL :** UPON SYSTEM START-UP, THE SUPPLY DUCT STATIC PRESSURE SETPOINT SHALL BE EQUAL TO 75% (ADJUSTABLE) OF THE MAXIMUM DUCT STATIC PRESSURE SETPOINTS FOR SUPPLY DUCT STATIC PRESSURES. THE MAXIMUM AND MINIMUM DUCT STATIC PRESSURE SETPOINT SHALL BE AS DETERMINED DURING THE TESTING, ADJUSTING AND BALANCING PROCESS. THE MINIMUM SETPOINT SHALL BE EQUAL TO 1.25 TIMES THE DUCT STATIC PRESSURES WHEN ALL VARIABLE AIR VOLUME TERMINAL UNITS ARE AT MINIMUM AIRFLOW AND AT LEAST ONE TERMINAL UNIT DAMPER IS GREATER THAN 90% OPEN. THE MAXIMUM SETPOINT SHALL CORRESPOND TO MAXIMUM DESIGN AIRFLOW.

8. **OUTSIDE AIR CONTROL :** MODULATE THE OUTSIDE AIR DAMPER TO MAINTAIN MINIMUM AIRFLOW AS MEASURED BY OUTSIDE AIR FLOW STATION. EVALUATE THE MINIMUM OUTSIDE AIR BALANCING DAMPER ON 5-MINUTE INTERVALS (ADJUSTABLE). ADJUST THE MINIMUM OUTSIDE AIRFLOW SETPOINT BETWEEN THE LOWER AND UPPER LIMITS IN 10% INCREMENTS EVERY 10 MINUTES. IF THE AVERAGE SPACE CARBON DIOXIDE CONCENTRATIONS ARE BELOW 800 PPM (ADJUSTABLE), REDUCE MINIMUM OUTSIDE AIRFLOW SETPOINT. IF THE AVERAGE SPACE CARBON DIOXIDE CONCENTRATIONS ARE ABOVE 900 PPM (ADJUSTABLE) INCREASE MINIMUM OUTSIDE AIRFLOW SETPOINT. IF ANY SPACE CARBON DIOXIDE CONCENTRATION IS ABOVE 1000 PPM FOR 5 MINUTES (ADJUSTABLE), INCREASE MINIMUM OUTSIDE AIRFLOW SETPOINT. IF ANY SPACE CARBON DIOXIDE CONCENTRATION IS ABOVE 1000 PPM FOR LONGER THAN 1 HOUR (ADJUSTABLE), INITIATE AN ALARM THROUGH THE BCS.

9. **HIGH PRESSURE SAFETY :** A HIGH PRESSURE SAFETY SENSING DISCHARGE STATIC PRESSURE SET AT 80% OF THE DUCT PRESSURE RATING SHALL STOP THE FAN.

10. **LOW PRESSURE SAFETY :** A LOW PRESSURE SAFETY SENSING INLET STATIC PRESSURE SET AT 80% OF THE DUCT PRESSURE RATING SHALL STOP THE FAN.

11. **NIGHT SETBACK OVERRIDE :** A DROP IN SPACE TEMPERATURE BELOW NIGHT SETBACK SETPOINT SHALL OVERRIDE THE SUPPLY FAN INTERLOCK AND ALLOW THE TERMINAL UNITS SYSTEM TO OPERATE UNDER NORMAL CONTROL IN START-UP UNTIL SPACE TEMPERATURE RISES ABOVE NIGHT SETBACK SETPOINT.

12. **SHUTDOWN:** ON POWER INTERRUPTION OR FAN SHUTDOWN, THE MINIMUM AND MAXIMUM OUTSIDE AIR, RETURN DAMPERS, AND CHILLED WATER VALVES SHALL CLOSE. AND THE TERMINAL UNITS ELECTRIC HEATING COILS SHALL BE DEACTIVATED.

13. **EMERGENCY SHUT DOWN:** A MANUAL PUSH BUTTON LOCATED IN THE MECHANICAL ROOM SHALL SHUT THE AIR HANDLING UNIT DOWN.

14. **FIRE ALARM SYSTEM :** ON ACTIVATION OF THE FIRE ALARM SYSTEM RELAY OR SMOKE DETECTOR, THE CORRESPONDING FIRE SMOKE DAMPER SHALL CLOSE AND THE AIR HANDLING UNIT SHALL SHUT DOWN.

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
HVAC CONTROLS AHU

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
M-701

TI GMP SET

11/19/2020 3:01:25 PM

1 M-701 **CONTROLS SCHEMATIC FOR AHU**

1 2 3 4 5 6

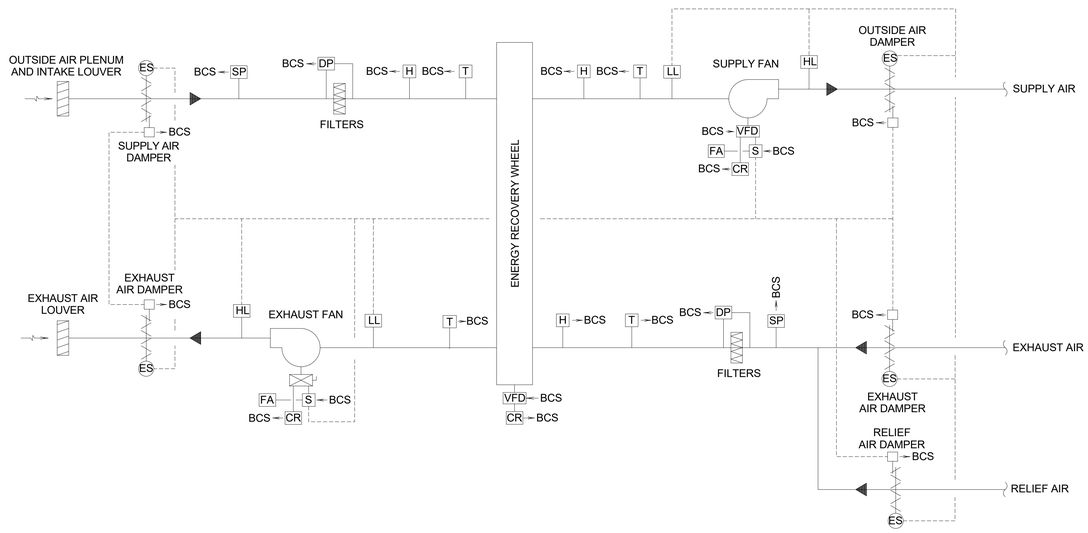
A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

BCS PANEL INPUT/OUTPUT SUMMARY ERU -

	SYSTEM GRAPHIC DISPLAY	OUTPUTS: DIGITAL: START/STOP	OUTPUTS: DIGITAL: ENABLE/DISABLE	OUTPUTS: DIGITAL: OPEN/CLOSE	OUTPUTS: DIGITAL: ACTIVATE/DEACTIVATE	OUTPUTS: ANALOG: BCS CONTROL	INPUTS: DIGITAL: CURRENT SENSING RELAY	INPUTS: DIGITAL: DIFFERENTIAL PRESSURE SWITCH	INPUTS: DIGITAL: AUXILIARY CONTACT	INPUTS: DIGITAL: ALARM CONTACT	INPUTS: DIGITAL: PULSE CONTACT	INPUTS: ANALOG: TEMPERATURE	INPUTS: ANALOG: RELATIVE HUMIDITY	INPUTS: ANALOG: PRESSURE	INPUTS: ANALOG: FLOW	INPUTS: ANALOG: CARBON DIOXIDE LEVEL	SOFTWARE: ALARM: STATUS/INTERLOCK	SOFTWARE: ALARM: HIGH/LOW LIMIT	SOFTWARE: ALARM: RUN TIME TOTALIZATION	SOFTWARE: BCS: PROPORTIONAL	SOFTWARE: BCS: PROPORTIONAL + INTEGRAL	SOFTWARE: ENERGY MGMT.: TIME SCHEDULE START/STOP	SOFTWARE: ENERGY MGMT.: OPTIMUM START/STOP	SOFTWARE: ENERGY MGMT.: DAYLIGHT SETBACK	SOFTWARE: ENERGY MGMT.: ECONOMIZER	SOFTWARE: ENERGY MGMT.: ENERGY METERING	SOFTWARE: ENERGY MGMT.: ARCHIVAL SERVER	SOFTWARE: ENERGY MGMT.: BAS TREND	SOFTWARE: ENERGY MGMT.: CALCULATED POINTS	FAILURE MODE (SEE NOTES 1 AND 2)	NOTES
ENERGY RECOVERY UNIT (ERU)	X																														
OUTSIDE AIR DAMPER			X																		X									O	
SUPPLY AIR DAMPER			X																		X									O	
EXHAUST AIR INTAKE DAMPER			X																		X									O	
EXHAUST AIR DISCHARGER DAMPER			X																		X									O	
SUPPLY FAN START/STOP	X																													O	
SUPPLY FAN STATUS							X										X														
SUPPLY FAN VFD					X																X									O	3
EXHAUST FAN START/STOP	X																														
EXHAUST FAN STATUS							X										X														
EXHAUST FAN VFD					X																X									O	3
ENTHALPY WHEEL START/STOP	X																														
ENTHALPY WHEEL STATUS							X																								
ENTHALPY WHEEL VFD					X																X										
ENTHALPY WHEEL OUTSIDE AIR EAT												X																			
ENTHALPY WHEEL OUTSIDE AIR INLET RH													X																		
ENTHALPY WHEEL OUTSIDE AIR LAT												X																			
ENTHALPY WHEEL OUTSIDE AIR OUTLET RH													X																		
ENTHALPY WHEEL EFFICIENCY																														X	
FREEZESTAT										X																					
DISCHARGE AIR TEMPERATURE												X																			
EXHAUST AIR INLET TEMPERATURE												X																			
EXHAUST AIR RELATIVE HUMIDITY													X																		
SUPPLY DUCT STATIC PRESSURE														X																	
EXHAUST DUCT STATIC PRESSURE														X																	
SUPPLY DUCT HIGH PRESSURE SAFETY										X																					
EXHAUST DUCT HIGH PRESSURE SAFETY										X																					
SUPPLY AIR FILTER DIFFERENTIAL PRESSURE														X																	
EXHAUST AIR FILTER DIFFERENTIAL PRESSURE														X																	
DUCT HIGH PRESSURE SAFETY										X																					
DUCT LOW PRESSURE SAFETY										X																					

NOTES:
1. FAILURE MODE
   O - ON OR OPEN
   C - OFF OR CLOSE
   L - LAST COMMAND
2. WHERE FAILURE MODE IS INDICATED, THE INDICATED POSITION SHALL OCCUR ON FAILURE OF THE BCS CONTROLLER OR ITS OUTPUT FOR ANY REASON.
3. FAN SHALL FAIL TO 50% SPEED.



SEQUENCES OF OPERATION

THE CONTROLS FOR SYSTEM ERU-1-1 SHALL FUNCTION AS FOLLOWS:

1. **SYSTEM START-UP** : THE SYSTEM SHALL BE AUTOMATICALLY STARTED AND STOPPED BY THE BCS CONTROLLER WHENEVER THE HAND-OFF-AUTOMATIC SWITCH IS IN THE AUTOMATIC POSITION, AND MANUALLY STARTED AND STOPPED BY THE HAND POSITION.
2. **DAMPER POSITIONS** : PRIOR TO FAN STARTING, THE EXHAUST AIR DAMPERS, OUTSIDE AIR DAMPER, SUPPLY AIR DAMPER, RELIEF AIR DAMPER AND ALL SMOKE AND FIRE AND SMOKE DAMPERS ASSOCIATED WITH THE SYSTEM SHALL BE PROVEN OPEN.
3. **SUPPLY DUCT STATIC PRESSURE RESET** : MODULATE THE SUPPLY FAN VARIABLE FREQUENCY DRIVE TO MAINTAIN SUPPLY DUCT STATIC PRESSURE SETPOINT.
4. **EXHAUST DUCT STATIC PRESSURE SETPOINT** : MODULATE THE EXHAUST FAN VFD TO MAINTAIN EXHAUST DUCT STATIC PRESSURE SETPOINT AS DETERMINED BY TEST AND BALANCE AND AS SENSED BY THE EXHAUST DUCT STATIC PRESSURE SENSOR.
5. **ENERGY RECOVERY WHEEL CONTROL** :
   A. IF OUTSIDE AIR TEMPERATURE IS GREATER THAN 55°F AND OUTSIDE AIR ENTHALPY IS GREATER THAN EXHAUST ENTHALPY, THE ENTHALPY WHEEL SHALL OPERATE AT MAXIMUM SPEED.
   B. IF OUTSIDE AIR TEMPERATURE IS GREATER THAN 55°F AND OUTSIDE AIR ENTHALPY IS LESS THAN EXHAUST ENTHALPY, OPERATE THE ENTHALPY WHEEL AT MINIMUM SPEED.
   C. IF OUTSIDE AIR TEMPERATURE IS LESS THAN 55°F, MODULATE THE ENTHALPY WHEEL SPEED IN SEQUENCE TO MAINTAIN SYSTEM ENTERING AIR TEMPERATURE SETPOINT.
5. **HIGH PRESSURE SAFETY** : A HIGH PRESSURE SAFETY SENSING SUPPLY AND EXHAUST DUCT DISCHARGE STATIC PRESSURE SET AT 80% OF THE SUPPLY AND EXHAUST DUCT PRESSURE RATING SHALL STOP THE ASSOCIATED FAN.
6. **LOW PRESSURE SAFETY** : A LOW PRESSURE SAFETY SENSING SUPPLY AND EXHAUST DUCT INLET STATIC PRESSURE SET AT 80% OF THE SUPPLY AND EXHAUST DUCT PRESSURE RATING SHALL STOP THE ASSOCIATED FAN.
7. **EXHAUST DUCT LOW PRESSURE SAFETY** : A LOW PRESSURE SAFETY SENSING EXHAUST DUCT INLET STATIC PRESSURE SET AT 80% OF THE EXHAUST DUCT PRESSURE RATING SHALL STOP THE EXHAUST FAN.
8. **SHUTDOWN**: ON POWER INTERRUPTION OR FAN SHUTDOWN, THE OUTSIDE AIR, RETURN, SMOKE, AND FIRE AND SMOKE DAMPERS SHALL CLOSE.
9. **RELIEF DAMPER**: MODULATE THE RELIEF DAMPER TO MAINTAIN BUILDING dP SENSOR (AS SHOWN ON THE DRAWINGS).
10. **FIRE ALARM SYSTEM :** ON ACTIVATION OF THE FIRE ALARM SYSTEM RELAY OR SMOKE DETECTOR, THE CORRESPONDING FIRE SMOKE DAMPER SHALL CLOSE AND THE AIR HANDLING UNIT SHALL SHALL SHUT DOWN.

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M-702

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1 / M-702 **CONTROLS SCHEMATIC FOR ERU**

E D C B A

1 2 3 4 5 6

BCS CONTROLLERS INPUT/OUTPUT SUMMARY PRIMARY-SECONDARY REFRIGERATION PLANT

	OUTPUTS						INPUTS									SOFTWARE												
	DIGITAL			ANALOG			DIGITAL						ANALOG			ALARM			BCS	ENERGY MGMT.								
	SYSTEM GRAPHIC DISPLAY	START/STOP	ENABLE/DISABLE	OPEN/CLOSE	SETPOINT ADJUST	BCS CONTROL	CURRENT SENSING RELAY	DIFFERENTIAL PRESSURE SWITCH	AUXILIARY CONTACT	ALARM CONTACT	PULSE CONTACT	POSITION FEEDBACK	DEMAND LIMIT	TEMPERATURE	RELATIVE HUMIDITY	FLOW	PRESSURE	FULL LOAD AMPS	STATUS/INTERLOCK	HIGH/LOW LIMIT	RUN TIME TOTALIZATION	REFRIGERANT LEAK	VIBRATION	PROPORTIONAL	PROPORTIONAL + INTEGRAL	SCHEDULED START/STOP	OPTIMUM START STOP	DAY/NIGHT SETBACK	DEMAND LIMIT CYCLE	RESET OPTIMIZATION	ECONOMIZER	FAILURE MODE (SEE NOTES 1 AND 2)	NOTES
REFRIGERANT PLANT	X																															
CHILLER CH-1 ENABLE/DISABLE			X																	X											3,5
CHILLER CH-1 STATUS																		X													5
CHILLER CH-1 ALARM									X									X													5
CHILLER CH-1 EVAPORATOR ISOLATION VALVE			X						X														X								5
CHILLER CH-1 EVAPORATOR ISOLATION VALVE ENDSWITCH											X																				5
CHILLER CH-1 LEAVING CHILLED WATER TEMPERATURE													X																		5
CHILLER CH-1 RUNNING AMPERES																	X														5
DECOUPLER BRIDGE CHECK VALVE DIFFERENTIAL PRESSURE																X															
DECOUPLER BRIDGE FLOW															X																
PRIMARY CHILLED WATER PUMP PCHP-1 START/STOP	X								X																						6
PRIMARY CHILLED WATER PUMP PCHP-1 STATUS							X											X	X												6
PRIMARY CHILLED WATER PUMP PCHP-1 AND PCHP-2 VFD SPEED					X																		X								4
SECONDARY CHILLED WATER PUMP SCHP-1 START/STOP	X																														7
SECONDARY CHILLED WATER PUMP SCHP-1 STATUS							X												X												7
SECONDARY CHILLED WATER PUMP SCHP-1 AND SCHP-2 VFD SPEED					X																		X								4
SECONDARY CHILLED WATER FLOW															X																
SYSTEM CHILLED WATER SUPPLY TEMPERATURE													X						X												

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

NOTES:
1. FAILURE MODE
   O - ON OR OPEN
   C - OFF OR CLOSE
   L - LAST COMMAND
2. BCS CONTROLS AND INTERFACES SHALL BE ARRANGED SO THAT EQUIPMENT CONTROLLED BY THE BCS OPERATES AS INDICATED ON FAILURE OF THE BCS CONTROLLER FOR ANY REASON, INCLUDING LOGIC POWER SUPPLY FAILURE, CPU LOCK-UP, OR INTERPOSING RELAY FAILURE. SAFETY AND OPERATIONAL INTERLOCKS SHALL REMAIN IN EFFECT.
3. PROVIDE BACNET CONNECTION TO CHILLERS AND VSDs.
4. ACTIVE IDENTICAL EQUIPMENT SHALL BE CONTROLLED FROM A COMMON SIGNAL.
5. PROVIDE IDENTICAL POINTS FOR EACH CHILLER.
6. PROVIDE IDENTICAL POINTS FOR EACH PRIMARY CHILLED WATER PUMP.
7. PROVIDE IDENTICAL POINTS FOR EACH SECONDARY PUMP.

SEQUENCE OF OPERATION

THE CONTROLS FOR THE REFRIGERATION PLANT SHALL FUNCTION AS FOLLOWS:

1. **CHILLER ENABLE** : AFTER INTERNAL CHILLER SAFETIES ARE SATISFIED, THE CHILLER START SEQUENCE SHALL BE INITIATED. THE BCS CONTROLLER SHALL ENABLE THE LEAD CHILLER UPON A RISE IN OUTSIDE AIR TEMPERATURE ABOVE SETPOINT OR WHEN ANY AIR HANDLING UNIT IS OPERATING WITH CHILLED WATER VALVE OPEN.

2. **LEAVING CHILLED WATER TEMPERATURE SETPONT** : THE CHILLER SHALL OPERATE UNDER INTERNAL CONTROLS TO MAINTAIN 44°F LEAVING CHILLED WATER TEMPERATURE.

3. **PUMP ENABLE** : WHEN A CHILLER IS ENABLED, THE BCS CONTROLLER SHALL START A PRIMARY CHILLED WATER PUMP. UPON PROOF OF PUMP OPERATION, BCS CONTROLLER SHALL OPEN THE 2-POSITION EVAPORATOR ISOLATION VALVE IN THE CHILLER DISCHARGE. AFTER INTERNAL SAFETIES ARE SATISFIED, THE CHILLLER COMPRESSOR SHALL START AND OPERATE UNDER INTERNAL CONTROLS TO MAINTAIN 44°F DISCHARGE WATER TEMPERATURE.

4. **EVAPORATOR ISOLATION VALVE AND CONDENSER WATER VALVE ALARM** : THE BCS CONTROLLER SHALL ANNUNCIATE AN ALARM AND STOP A PRIMARY CHILLED WATER PUMP WHENEVER THE EVAPORATOR ISOLATION VALVE IS NOT PROVEN OPEN AND THE NEWLY STARTED PUMP HAS BEEN OPERATING FOR 3 MINUTES (ADJUSTABLE). THE BCS CONTROLLER SHALL ANNUNCIATE AN ALARM CONDITION.

5. **EQUIPMENT RUNTIME EQUALIZATION** : THE BCS CONTROLLER SHALL TOTALIZE RUNTIME FOR CHILLERS, COOLING TOWERS, AND PUMPS AND SHALL START OR ENABLE AND STOP OR DISABLE EQUIPMENT IN A MANNER THAT EQUALIZES EQUIPMENT RUNTIME. THE BCS CONTROLLER SHALL, AT AN OPERATOR DEFINED INTERVAL INITIALLY SET TO MONTHLY, OR UPON OPERATOR REQUEST, EVALUATE THE LEAD EQUIPMENT SELECTIONS AND RESELECT SO AS TO EQUALIZE RUNTIME. WHEN EQUIPMENT IS ROTATED, THE NEWLY STARTED EQUIPMENT SHALL START AND BE PROVEN OPERATING FOR 1 MINUTE PRIOR TO THE OPERATING EQUIPMENT BEING STOPPED.

6. **ADDITIONAL CHILLER ENABLE** : THE BCS CONTROLLER SHALL ENABLE AN ADDITIONAL CHILLER WHENEVER THE DIFFERENTIAL PRESSURE ACROSS THE DECOUPLER BRIDGE CHECK VALVE RISES ABOVE 2 PSIG (INDICATING ATTEMPTED REVERSE FLOW) OR BOTH THE RUNNING AMPERES FOR THE ACTIVE ELECTRIC CHILLERS EXCEEDS 95% OF THE FULL LOAD AMPERES AND THE SYSTEM CHILLED WATER SUPPLY TEMPERATURE EXCEEDS THE SETPOINT FOR A PERIOD OF 15 MINUTES. ALSO, THE BCS CONTROLLER SHALL ENABLE AN ADDITIONAL CHILLER WHENEVER SYSTEM CHILLED WATER SUPPLY TEMPERATURE EXCEEDS 48°F FOR 5 MINUTES.

7. **CHILLER DISABLE :** WHENEVER FORWARD FLOW AS MEASURED BY A FLOW METER IN THE DECOUPLER BRIDGE EXCEEDS 152 GPM FOR A PERIOD OF 30 MINUTES, THE BCS CONTROLLER SHALL DISABLE A CHILLER.

8. **LEAVING WATER TEMPERATURE RESET** : THE LEAVING WATER TEMPERATURE SETPOINT SHALL BE RESET BY A COMMON SIGNAL TO ACTIVE CHILLERS FROM THE BCS CONTROLLER. RESET THE TEMPERATURE BETWEEN 42°F AND 45°F.

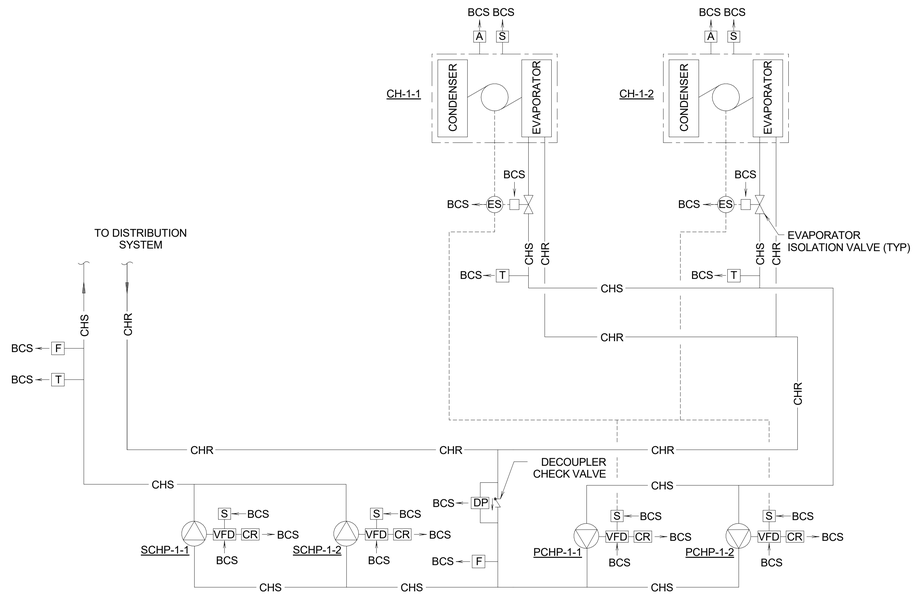
9. **SECONDARY CHILLED WATER PUMP START-UP** : WHENEVER THERE ARE NO PRIMARY CHILLED WATER PUMPS PROVEN OPERATING, ACTIVE SECONDARY CHILLED WATER PUMPS SHALL STOP.

10. **HIGH TEMPERATURE ALARM** : THE BCS CONTROLLER SHALL ANNUNCIATE AN ALARM CONDITION AT THE BCS CENTRAL STATION WHENEVER A CHILLER IS ENABLED AND SYSTEM CHILLED WATER SUPPLY TEMPERATURE EXCEEDS 50°F FOR A PERIOD OF 15 MINUTES.

11. **SOFTWARE AND HARDWARE FOR RUNNING AMPERES** : THE BCS MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING SOFTWARE AND HARDWARE TO OBTAIN RUNNING AMPERES FROM THE CHILLER CONTROL PANEL. COORDINATE WITH THE CHILLER MANUFACTURER.

12. **EQUIPMENT FAILURE ALARM** : IF AN ENABLED OR STARTED PIECE OF EQUIPMENT DOES NOT PROVE OPERATING AFTER A 15 SECOND TIME PERIOD, OR PROOF IS LOST WHILE OPERATING, AN ALARM SIGNAL SHALL BE INITIATED AT THE BCS CENTRAL STATION AND AN EQUIVALENT PIECE OF EQUIPMENT SHALL BE STARTED OR ENABLED. CHILLERS, CHILLED WATER PUMPS, SHALL BE SEQUENCED INDEPENDENTLY. UPON PROOF OF OPERATION OF THE NEWLY STARTED OR ENABLED PIECE OF EQUIPMENT, THE ALARMED EQUIPMENT SHALL BE STOPPED OR DISABLED. THE ALARM MESSAGE SHALL REMAIN UNTIL MANUALLY RESET AT THE BCS CENTRAL STATION.

13. **CHILLER CONTROLS APPROVAL** : CHILLER CONTROLS SHALL BE APPROVED IN WRITING BY THE CHILLER MANUFACTURER BY NOTATION ON THE CONTROL SHOP DRAWINGS.



1 CONTROLS SCHEMATIC FOR AIR COOLED CHILLERS
M-703

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
HVAC CONTROLS CHILLERS

DATE:
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TI GMP SET

SHEET:
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THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE PLOTTED DRAWING SHEET

BCS PANEL INPUT/OUTPUT SUMMARY DUCTLESS SPLIT SYSTEM

| | OUTPUTS | | | | | | | | INPUTS | | | | | | | | | | | | | | | | SOFTWARE | | | | | | | | | | | | | | | |

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

BCS PANEL INPUT/OUTPUT SUMMARY CV-R TYPE TERMINAL UNIT CONTROLLER

| | OUTPUTS | | | | INPUTS | | | | SOFTWARE | | | |

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

BCS PANEL INPUT/OUTPUT SUMMARY FPP TYPE TERMINAL UNIT CONTROLLER

| | OUTPUTS | | | | | | | | INPUTS | | | | | | | | | | SOFTWARE | | | | | | | | | |

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

BCS PANEL INPUT/OUTPUT SUMMARY

FINNED TUBE RADIATOR

| | OUTPUTS | | | | | | | | | | INPUTS | | | | | | | | | | SOFTWARE | | | | | | | | | |

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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B

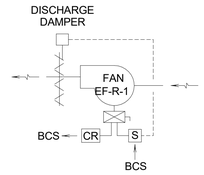
A

BCS PANEL INPUT/OUTPUT SUMMARY FANS

	OUTPUTS				INPUTS				SOFTWARE				
	DIGITAL			ANALOG	DIGITAL			ANALOG	ALARM	BCS	ENERGY MGMT.		
	SYSTEM GRAPHIC DISPLAY	START/STOP	ENABLE/DISABLE	OPEN/CLOSE	ENERGIZE/DE-ENERGIZE	SETPOINT ADJUST	BCS CONTROL		CURRENT SENSING RELAY	DIFFERENTIAL PRESSURE SWITCH	AUXILIARY CONTACT	ALARM CONTACT	PULSE CONTACT
FANS CONTROLLED BY TIME SWITCHES													
FAN EF-R-1	X												
START/STOP		X											
STATUS									X				

	PHOTOCELL	TEMPERATURE	RELATIVE HUMIDITY	PRESSURE	AIRFLOW	STATUS/INTERLOCK	HIGH/LOW LIMIT	RUN TIME TOTALIZATION	VIBRATION	PROPORTIONAL	PROPORTIONAL + INTEGRAL	SCHEDULED START/STOP	OPTIMUM START STOP	DAY/NIGHT SETBACK	DEMAND LIMIT CYCLE	RESET OPTIMIZATION	ECONOMIZER	FAILURE MODE (SEE NOTES 1 AND 2)	NOTES
FANS CONTROLLED BY TIME SWITCHES																			
FAN EF-R-1																			3
START/STOP																			
STATUS																			

NOTES:
1. FAILURE MODE
   O - ON OR OPEN
   C - OFF OR CLOSE
   L - LAST COMMAND
2. WHERE FAILURE MODE IS INDICATED, THE INDICATED POSITION SHALL OCCUR ON INTERRUPTION OF ELECTRIC POWER TO THE BCS PANEL.
3. PROVIDE IDENTICAL BCS CONTROL POINTS AND FUNCTIONS FOR EACH IDENTICAL PIECE OF EQUIPMENT.



SEQUENCE OF OPERATION

THE CONTROLS FOR FAN EF-R-1 (SERVING THE TOILETS IN THE OFFICE BUILDING) SHALL FUNCTION AS FOLLOWS:

1. THE FAN SHALL BE AUTOMATICALLY STARTED AND STOPPED BY THE BCS CONTROLLER WHENEVER THE HAND-OFF-AUTOMATIC SWITCH IS IN THE AUTOMATIC POSITION, AND MANUALLY STARTED AND STOPPED BY THE HAND POSITION.

2. THE MOTORIZED DISCHARGE DAMPER SHALL OPEN WHEN THE FAN IS ON AND CLOSE WHEN THE FAN IS OFF.

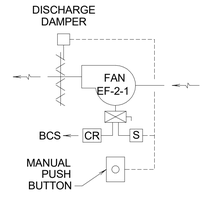
1 M-708	CONTROLS SCHEMATIC FOR RESTROOM EXHAUST FAN	NTS

BCS PANEL INPUT/OUTPUT SUMMARY FANS

	OUTPUTS				INPUTS				SOFTWARE				
	DIGITAL			ANALOG	DIGITAL			ANALOG	ALARM	BCS	ENERGY MGMT.		
	SYSTEM GRAPHIC DISPLAY	START/STOP	ENABLE/DISABLE	OPEN/CLOSE	ENERGIZE/DE-ENERGIZE	SETPOINT ADJUST	BCS CONTROL		CURRENT SENSING RELAY	DIFFERENTIAL PRESSURE SWITCH	AUXILIARY CONTACT	ALARM CONTACT	PULSE CONTACT
EF-2-1	X												
START/STOP		X											
STATUS									X				

	PHOTOCELL	TEMPERATURE	RELATIVE HUMIDITY	PRESSURE	AIRFLOW	STATUS/INTERLOCK	HIGH/LOW LIMIT	RUN TIME TOTALIZATION	VIBRATION	PROPORTIONAL	PROPORTIONAL + INTEGRAL	SCHEDULED START/STOP	OPTIMUM START STOP	DAY/NIGHT SETBACK	DEMAND LIMIT CYCLE	RESET OPTIMIZATION	ECONOMIZER	FAILURE MODE (SEE NOTES 1 AND 2)	NOTES
EF-2-1																			3
START/STOP																			
STATUS																			

NOTES:
1. FAILURE MODE
   O - ON OR OPEN
   C - OFF OR CLOSE
   L - LAST COMMAND
2. WHERE FAILURE MODE IS INDICATED, THE INDICATED POSITION SHALL OCCUR ON INTERRUPTION OF ELECTRIC POWER TO THE BCS PANEL.
3. PROVIDE IDENTICAL BCS CONTROL POINTS AND FUNCTIONS FOR EACH IDENTICAL PIECE OF EQUIPMENT.



SEQUENCE OF OPERATION

THE CONTROLS FOR FAN EF-2-1 (SERVING SERVER ROOM) SHALL FUNCTION AS FOLLOWS:

1. A MANUAL PUSH BUTTON SHALL START AND STOP THE FAN.

2. A MOTORIZED DISCHARGE DAMPER SHALL BE INTERLOCKED TO OPEN WHEN THE FAN IS ON, AND CLOSE WHEN THE FAN IS OFF. DAMPER SHALL FAIL OPEN.

2 M-708	CONTROLS SCHEMATIC FOR SERVER EXHAUST FAN	NTS

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SHEET NAME:
HVAC CONTROLS
FANS

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SHEET:
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Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

11/19/2020 3:01:32 PM

1 2 3 4 5 6

PLUMBING LEGEND

SYMBOLS

	SOIL (S) OR WASTE (W) ABOVE FLOOR OR GRADE
	SOIL (S) OR WASTE (W) BELOW FLOOR OR GRADE
	VENT (V)
RW	RAINWATER (RW) ABOVE FLOOR OR GRADE
RW	RAINWATER (RW) BELOW FLOOR OR GRADE
ORW	OVERFLOW RAINWATER (ORW) ABOVE FLOOR OR GRADE
ORW	OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE
	COLD WATER (CW)
	HOT WATER (HW)
	HOT WATER CIRCULATING (HWC)
T	TRAP PRIMER (T)

	DRAIN
	ROOF DRAIN (RD)
	FLOOR CLEANOUT (FCO)
	GROUND CLEANOUT (GCO)
	CLEANOUT (CO)
	STRAINER
	UNION OR FLANGE
	HOSE BIB
	WALL HYDRANT
	PRESSURE REDUCING VALVE
	CHECK VALVE
	GLOBE VALVE
	AUTOMATIC OR MANUAL FLOW CONTROL FITTING
	BALANCING VALVE
	GAS PRESSURE REGULATOR
	GAS VALVE
	GATE VALVE OR BUTTERFLY VALVE
	GATE VALVE IN VERTICAL RISE
	BALL VALVE
	BALL VALVE IN VERTICAL RISE
	MIXING VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	PRESSURE RELIEF VALVE
	VACUUM BREAKER
	VACUUM RELIEF VALVE
	THERMOMETER
	PRESSURE GAUGE
	WATER HAMMER ARRESTER
	TRAP PRIMER
	TRAP PRIMER WITH DISTRIBUTION UNIT
FBA-X	FLOW BALANCING ASSEMBLY
F M	FLOW METER
M	WATER METER
	BACKFLOW PREVENTER
	PUMP

ABBREVIATIONS

AAP	AREA ALARM PANEL (MEDICAL GAS)
ABV	ABOVE
AFF/AFG/ARF	ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR
AP	ACCESS PANEL
AR	ACID-RESISTING
ARCH	ARCHITECT/ARCHITECTURAL
ARCO	ACID-RESISTING CLEANOUT
AS	ALLOY STEEL
ATTP (#)	AUTOMATIC TRAP PRIMER PANEL (# INDICATES THE NUMBER OF OUTLETS)
BEL	BELOW
BF	BELOW FLOOR
CB	CATCH BASIN
CI	CURB INLET
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT/CONNECTION
CONT	CONTINUATION/CONTINUOUS
CSS	CLINICAL SERVICE SINK
CTE	CONNECT TO EXISTING
DI	DROPPED INLET
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
ELE	ELEVATOR
ELEC	ELECTRICAL/ELECTRIC
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPOSED
FPWH	FREEZE PROOF WALL HYDRANT
FD	FLOOR DRAIN
FDN	FOUNDATION
FS	FLOOR SINK
FTG	FOOTING
GR	GRADE
HC	HANDICAPPED
HD	HUB DRAIN
IE	INVERT ELEVATION
IM	ICE MACHINE/ICE MAKER
LAV	LAVATORY
MAP	MASTER ALARM PANEL (MEDICAL GAS)
MECH	MECHANICAL
MH	MANHOLE
PDI	PLUMBING AND DRAINAGE INSTITUTE
PL	PLANTER
PS	PIPE STAND SUPPORT
RD	ROOF DRAIN
REL	RELOCATE
REM	REMOVE
SD	SHOWER DRAIN
SEC	SECURITY
SHR	SHOWER
SHT	SHEET
SM	SHEET METAL
SPEC	SPECIFICATION
SS	SERVICE SINK
SSTL	STAINLESS STEEL
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TP	TRAP PRIMER
TR	THROUGH ROOF
TS	TIGHT TO STRUCTURE
UC	UNDERCOUNTER
UG	UNDERGROUND
UR	URINAL
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WG	WATER GAUGE
WM	WASHING MACHINE

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL PLUMBING PIPING, FITTINGS, ACCESSORIES, AND EQUIPMENT, ETC. IN ACCORDANCE WITH THE FOLLOWING CONSTRUCTION DOCUMENT FLOOR PLANS.
2. THE PLUMBING CONTRACTOR SHALL COORDINATE PLUMBING TRADE WORK WITH THE GENERAL, ELECTRICAL, AND MECHANICAL CONTRACTORS PRIOR TO BEGINNING THE NEW WORK.
3. PLUMBING PIPING SHALL NOT BE ROUTED OVER ELECTRICAL OR TELECOM ROOMS UNLESS SHOWN ON THE PLUMBING FLOOR PLANS. WHERE PIPING IS SHOWN ROUTED ABOVE ELECTRICAL AND TELECOM ROOMS THE CONTRACTOR SHALL PROVIDE GALVANIZED STEEL, FIELD FABRICATED, SHEET METAL DRIP PANS WITH A DRAIN ROUTED TO A NEARBY FLOOR DRAIN AS INDICATED ON THE PLUMBING FLOOR PLANS.
4. ALL RAINWATER AND WASTE/SOIL STACKS SHALL BE INSTALLED WITH BASE OF STACK CLEANOUTS AT THE LOWEST LEVEL OF THE STACK PRIOR TO THE PIPING TRANSITIONING BELOW GROUND. INSTALL CLEANOUT 1'-6" ABOVE FINISHED GRADE.
5. FIXTURES UTILIZING QUICK CLOSING VALVES SUCH AS DRINKING FOUNTAINS, FLUSH VALVES, SENSOR FAUCETS, SHOWER FAUCETS, ETC., SHALL HAVE WATER HAMMER ARRESTORS INSTALLED ON THE COLD AND HOT WATER PIPING SERVING THE FIXTURE. WATER HAMMER ARRESTORS SHALL BE ENCLOSED PISTON TYPE WHICH HAVE NO MAINTANENCE REQUIREMENT, THEREOFRE AN ACCESS PANEL IS NOT REQUIRED FOR SERVICE. WATER HAMMER ARRESTORS ARE NOT SHOWN ON THE PLUMBING FLOOR PLANS FOR CLARITY. WATER HAMMER ARRESTORS SHALL NOT BE INSTALLED WITHIN CONSTRUCTION MASONRY UNIT WALLS. WHERE FIXTURES ARE INSTALLED ON CONSTRUCTION MASONRY UNIT WALLS, INSTALL THE WATER HAMMER ARRESTORS ABOVE THE CEILING PRIOR TO THE PIPING DROP WITHIN THE WALL TO SERVE THE FIXTURE. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN AN UPRIGHT, VERTICAL POSITION.

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Δ	DATE	DESCRIPTION

SHEET NAME:
PLUMBING LEGEND

DATE:
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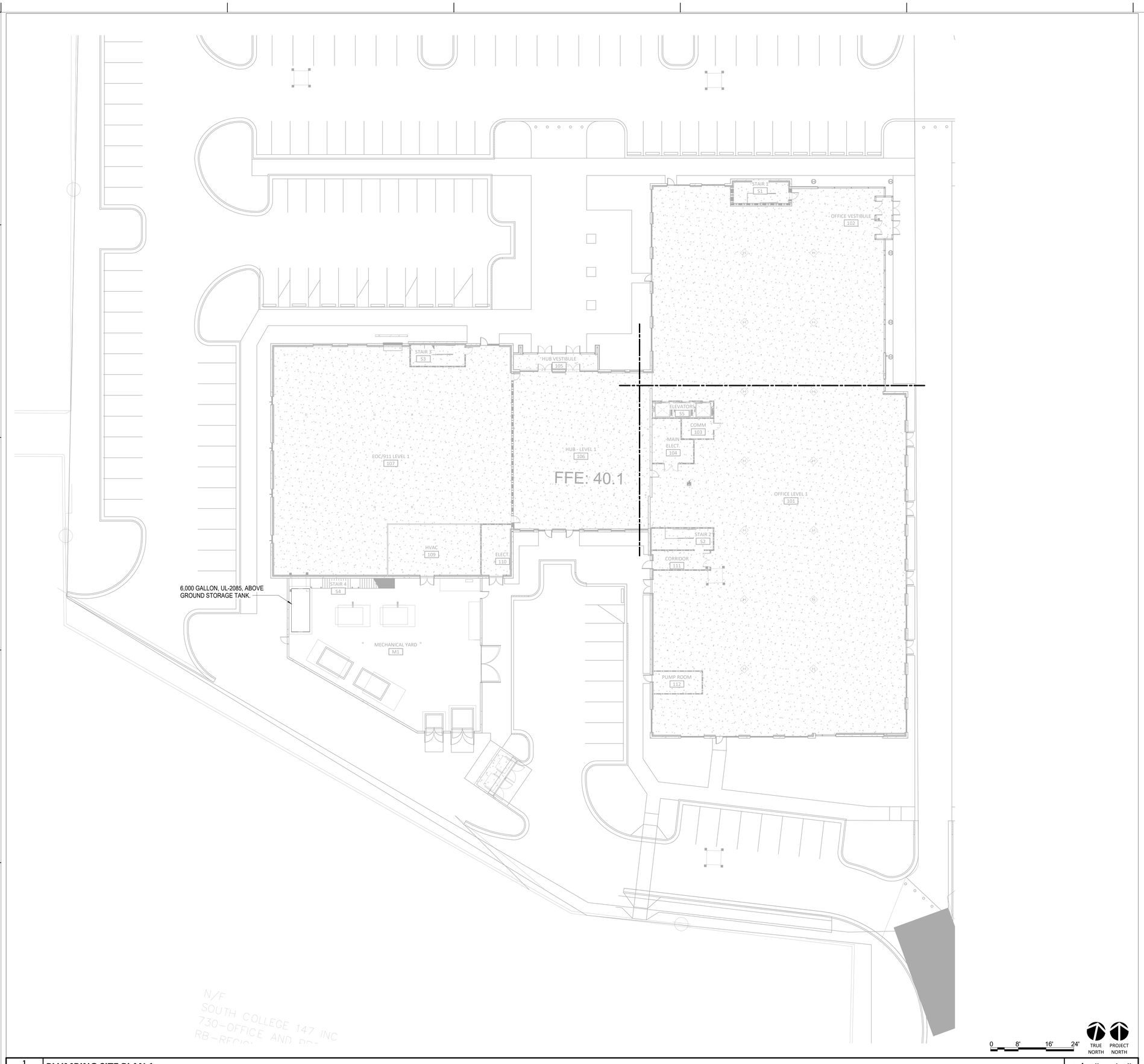
TI GMP SET

SHEET:
P-001

TI GMP SET

11/19/2020 6:00:13 PM

Plumbing Legend — 1/8" = 1'-0"



1 / P-002	PLUMBING SITE PLAN 1	1/16" = 1'-0"

11/19/2020 6:00:21 PM

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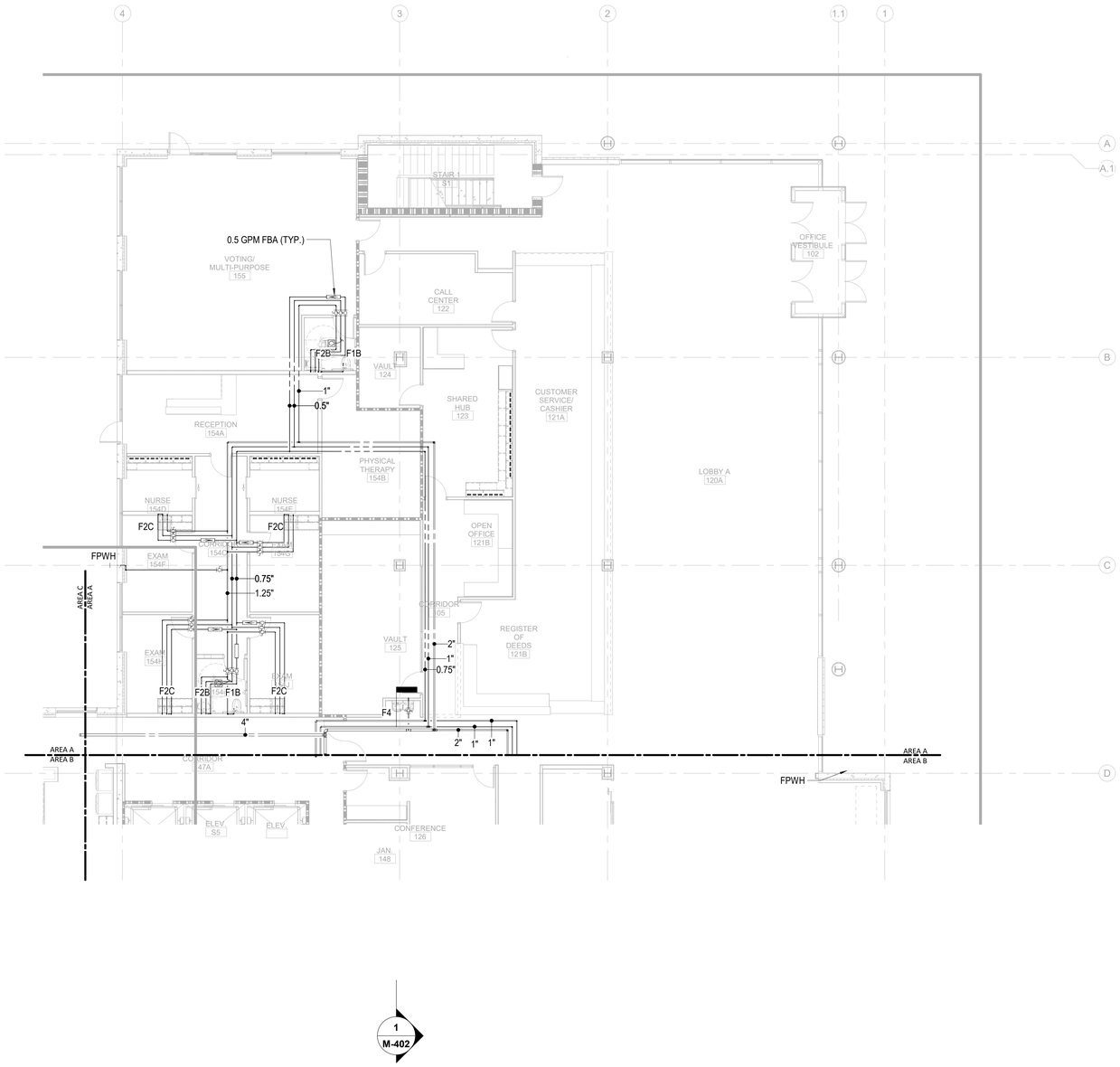
PLUMBING SITE PLAN

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-002

TI GMP SET



0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 P-101A	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"

11/19/2020 6:00:28 PM

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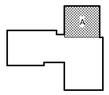

SHEET NAME:
PLUMBING PRESSURE FLOOR PLAN - LEVEL 1 - AREA A

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SHEET:
P-101A

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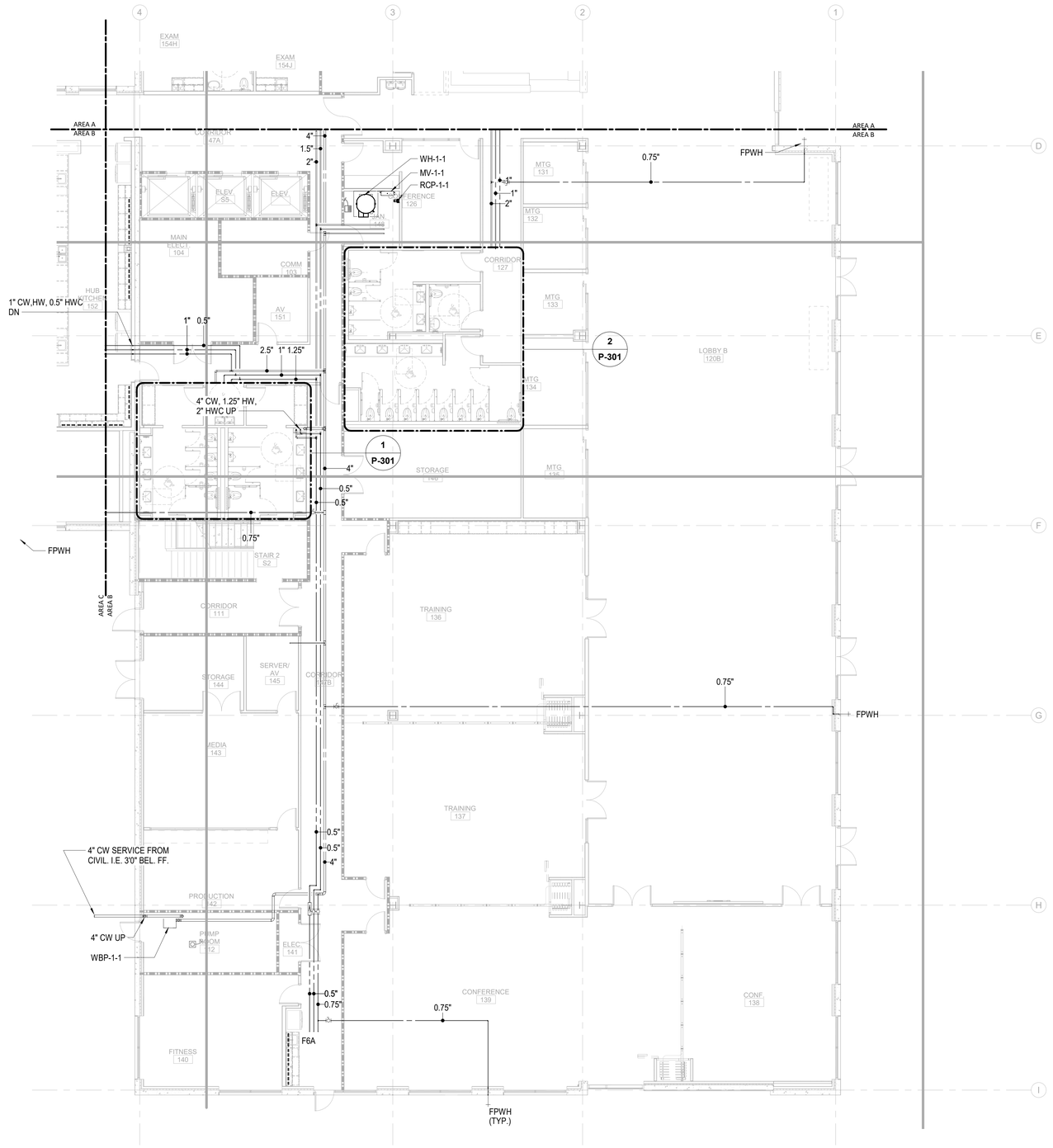

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 P-101B **PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B** 1/8" = 1'-0"

11/19/2020 6:00:35 PM

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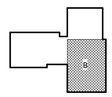

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PLUMBING PRESSURE FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-101B

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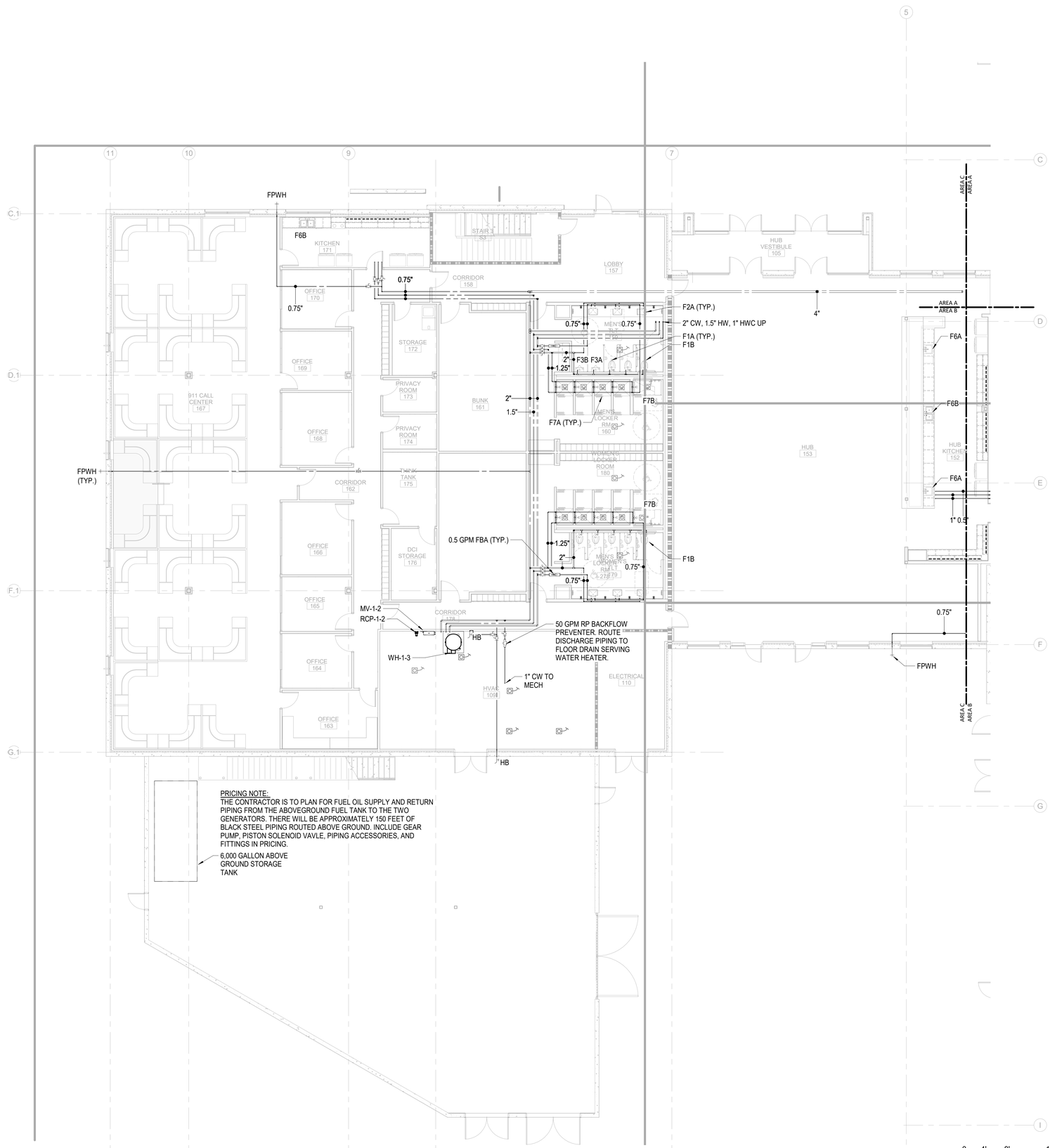

1 P-101C **PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** 1/8" = 1'-0"

11/19/2020 6:00:45 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

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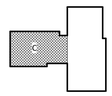

SHEET NAME:
PLUMBING PRESSURE FLOOR PLAN - LEVEL 1 - AREA C

DATE:
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SHEET:
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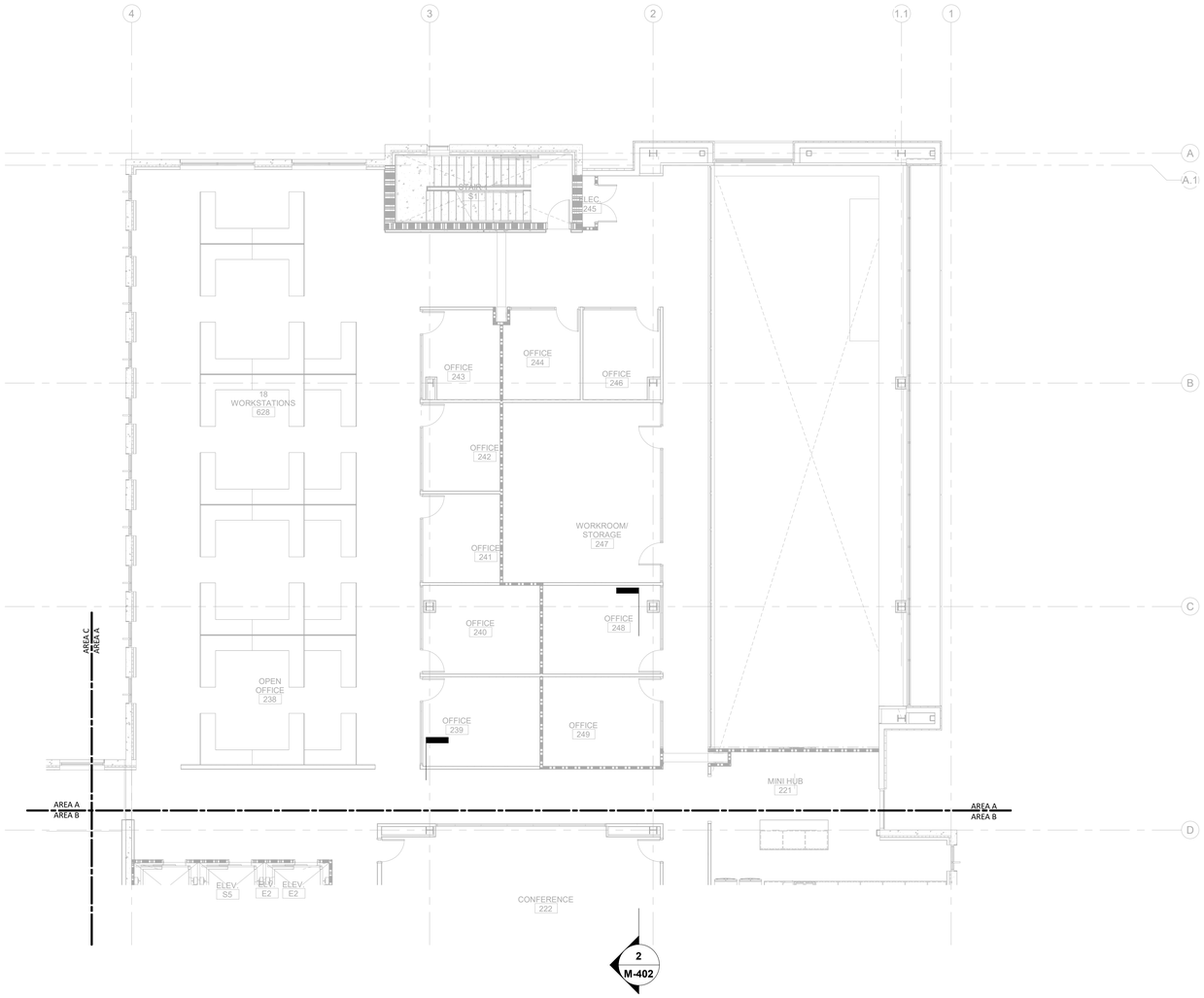

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11/19/2020 6:00:50 PM

1 P-102A PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A

1/8" = 1'-0"

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

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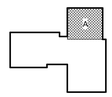
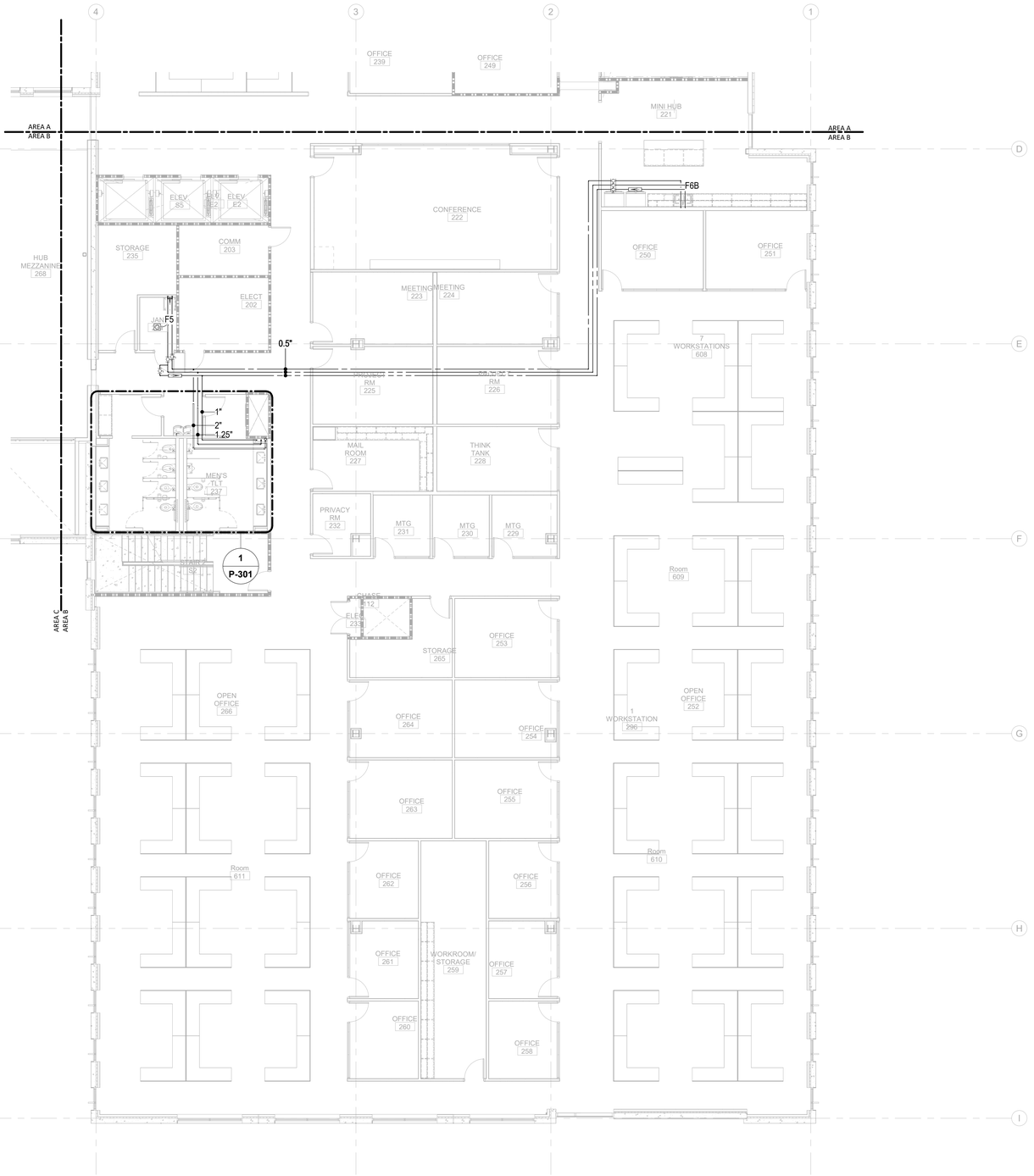


SHEET NAME:
PLUMBING PRESSURE FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-102A

TI GMP SET



0 4' 8' 16'

TRUE NORTH

PROJECT NORTH

1 / P-102B	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B	1/8" = 1'-0"

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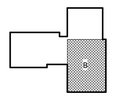

SHEET NAME:
PLUMBING PRESSURE FLOOR PLAN - LEVEL 2 - AREA B

DATE:
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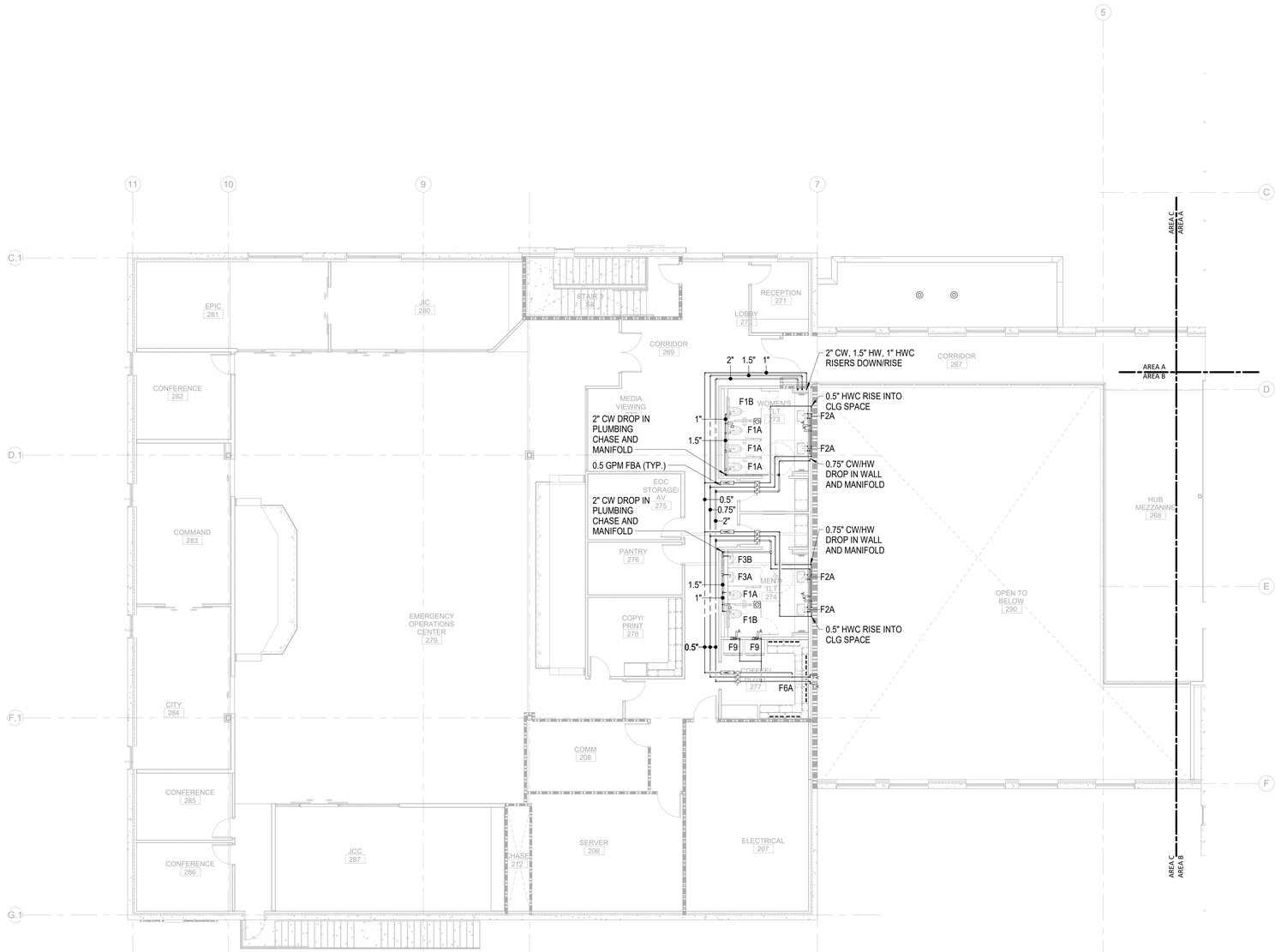

1 P-102C **PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** 1/8" = 1'-0"

11/19/2020 6:01:03 PM

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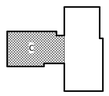

SHEET NAME:
PLUMBING PRESSURE FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: 2020.11.20
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P-102C

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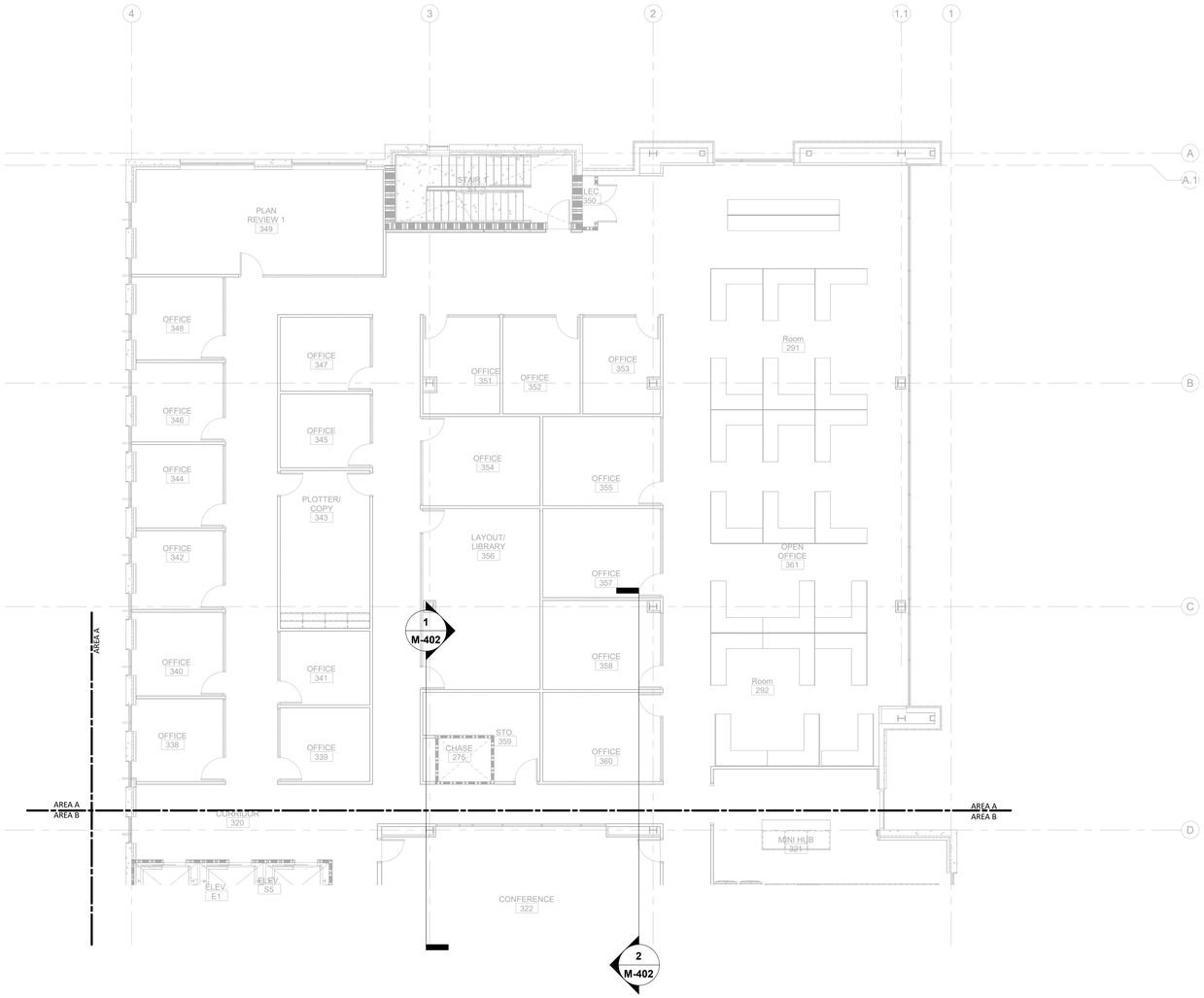

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / P-103A	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A	1/8" = 1'-0"

11/19/2020 6:01:08 PM

1 2 3 4 5 6

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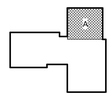

SHEET NAME:
PLUMBING PRESSURE FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-103A

TI GMP SET

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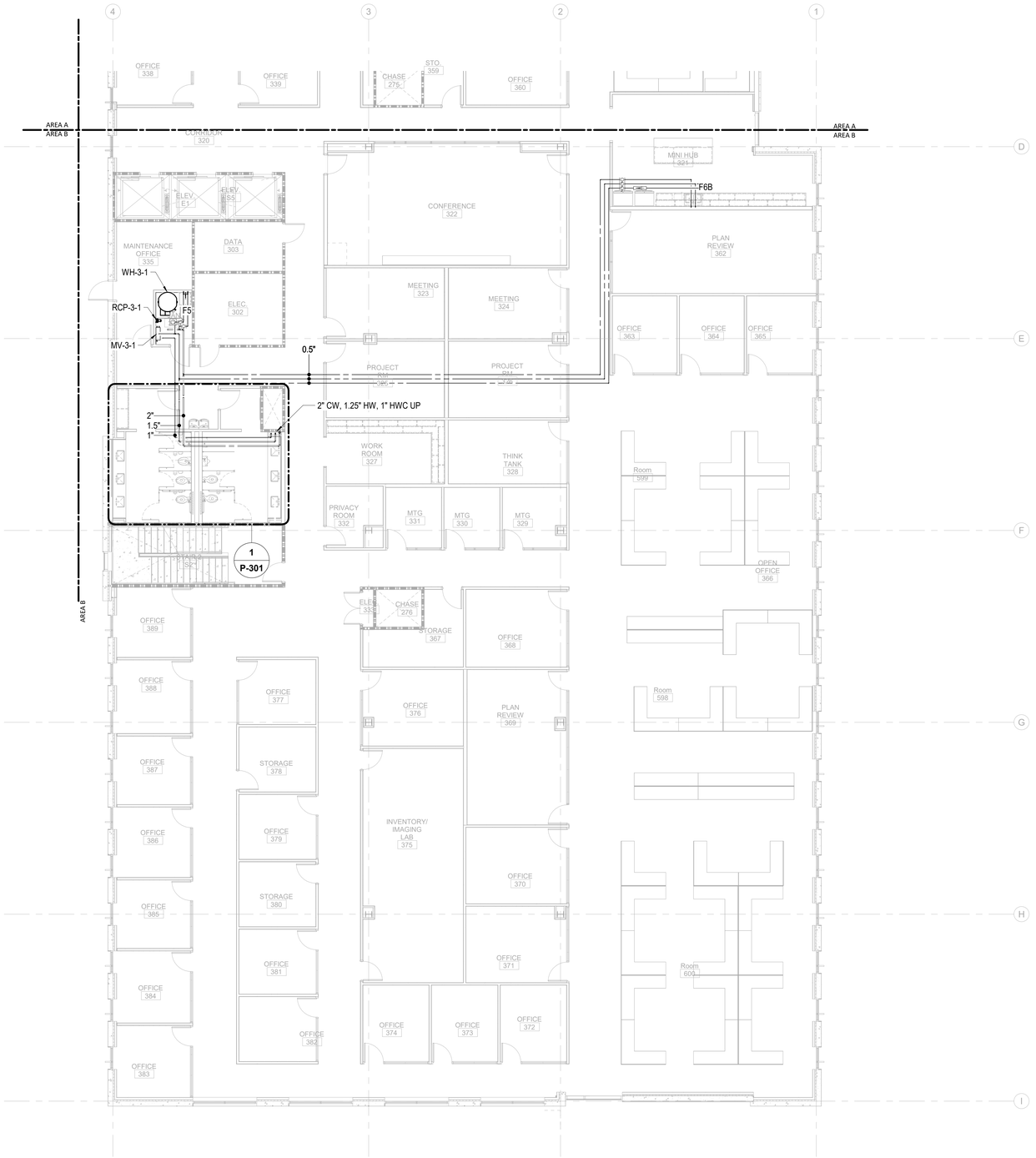

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B	1/8" = 1'-0"
P-103B		

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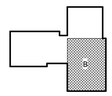

SHEET NAME:
PLUMBING PRESSURE FLOOR PLAN - LEVEL 3 - AREA B

DATE:
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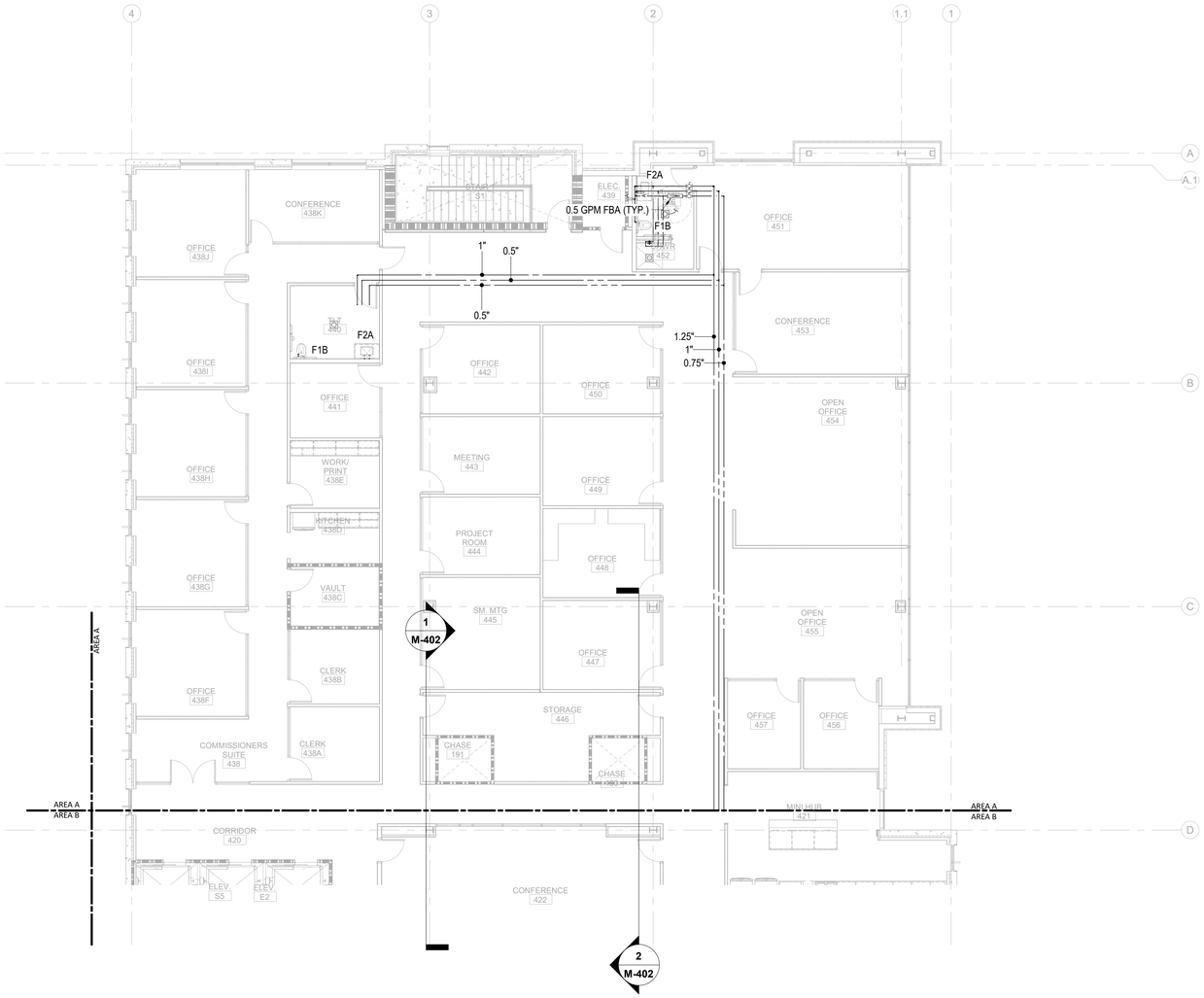

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

11/19/2020 6:01:21 PM

1 / P-104A **PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A** **1/8" = 1'-0"**

1 2 3 4 5 6

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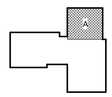
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING PRESSURE FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-104A

TI GMP SET

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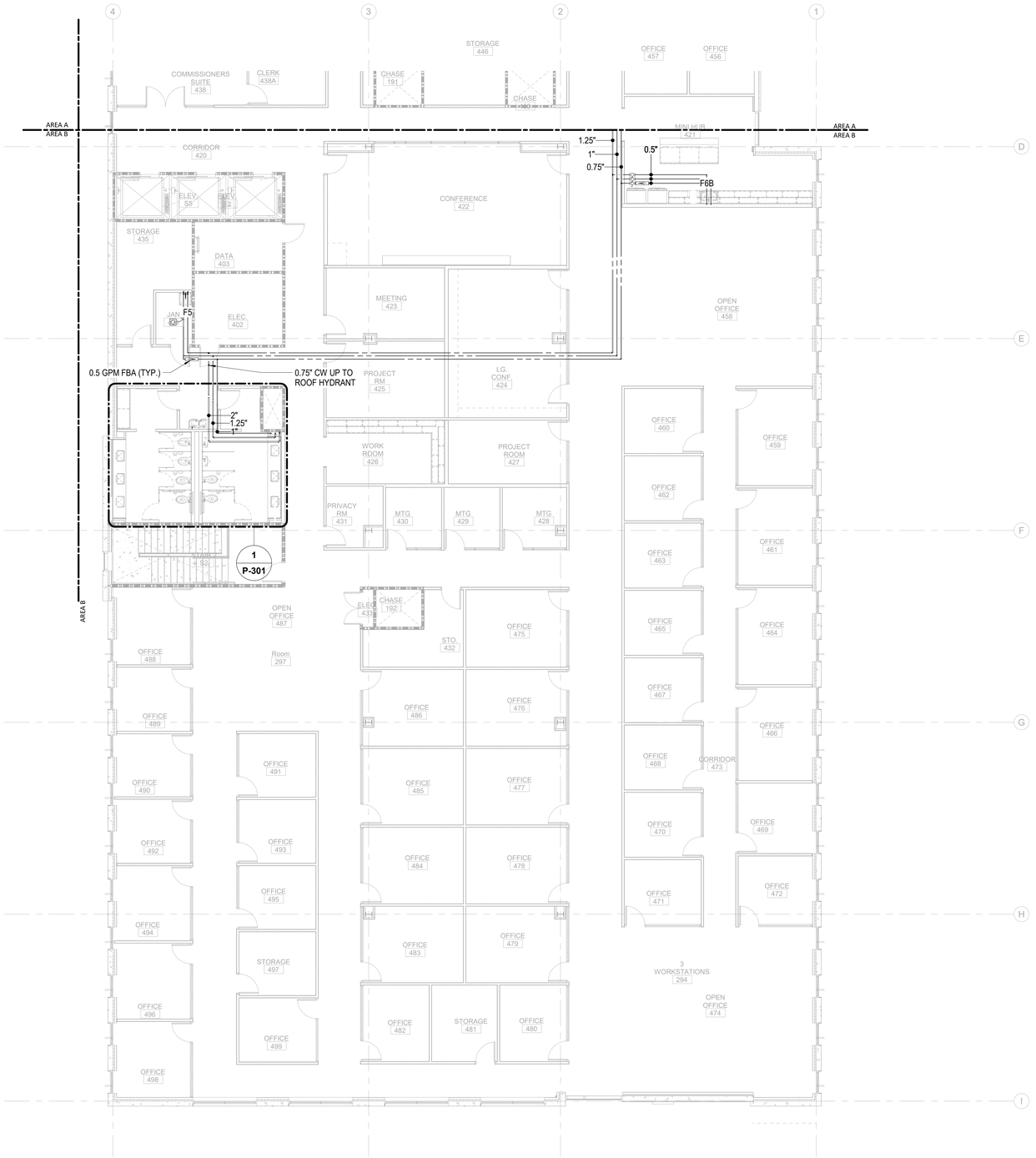

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 P-104B	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B	1/8" = 1'-0"

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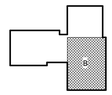
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING PRESSURE FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

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SHEET:
P-104B

TI GMP SET

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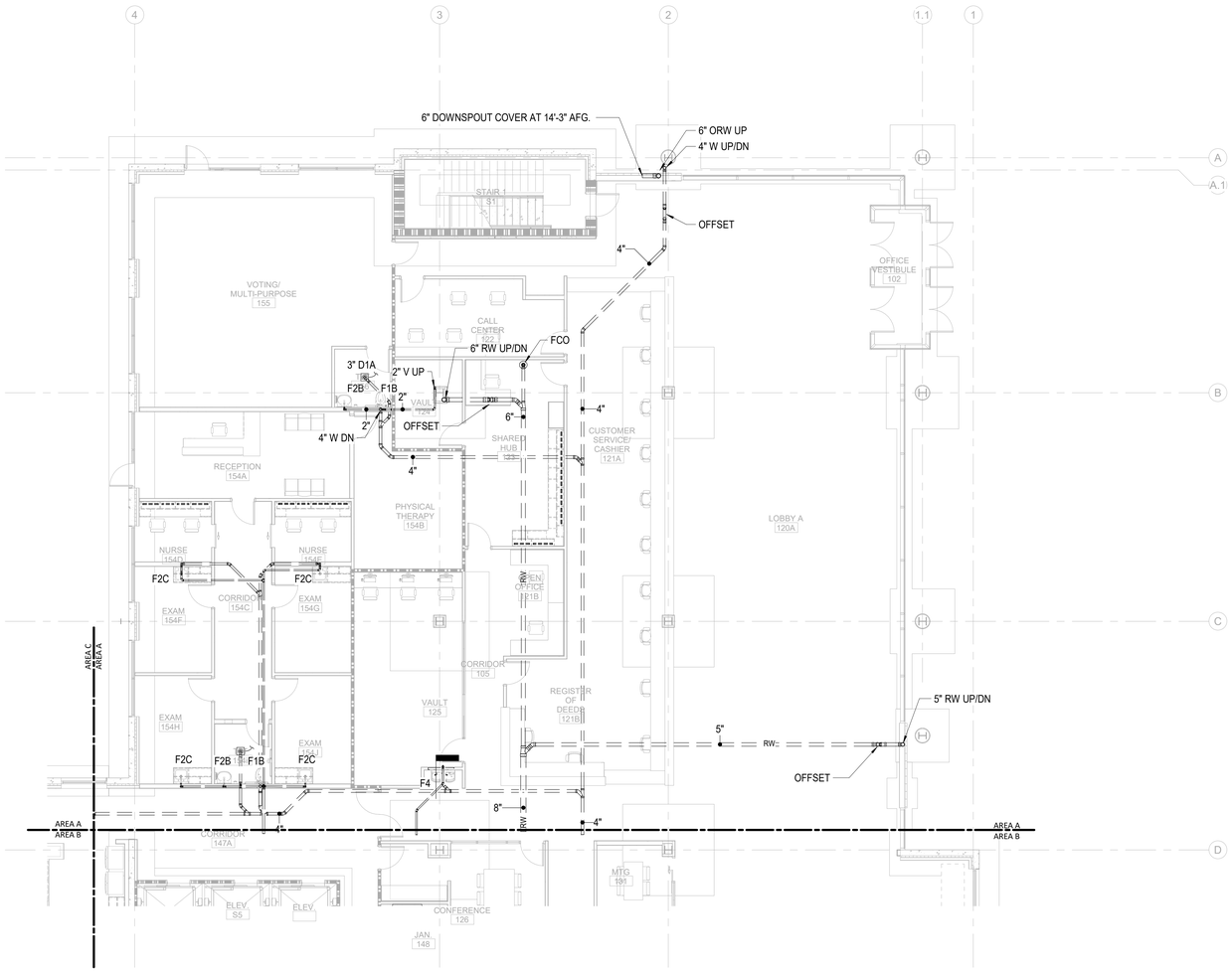

1
M-402

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

11/19/2020 6:01:38 PM

1 / P-201A	PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"

1 2 3 4 5 6

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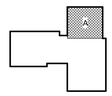
Δ	DATE	DESCRIPTION

KEY PLAN:

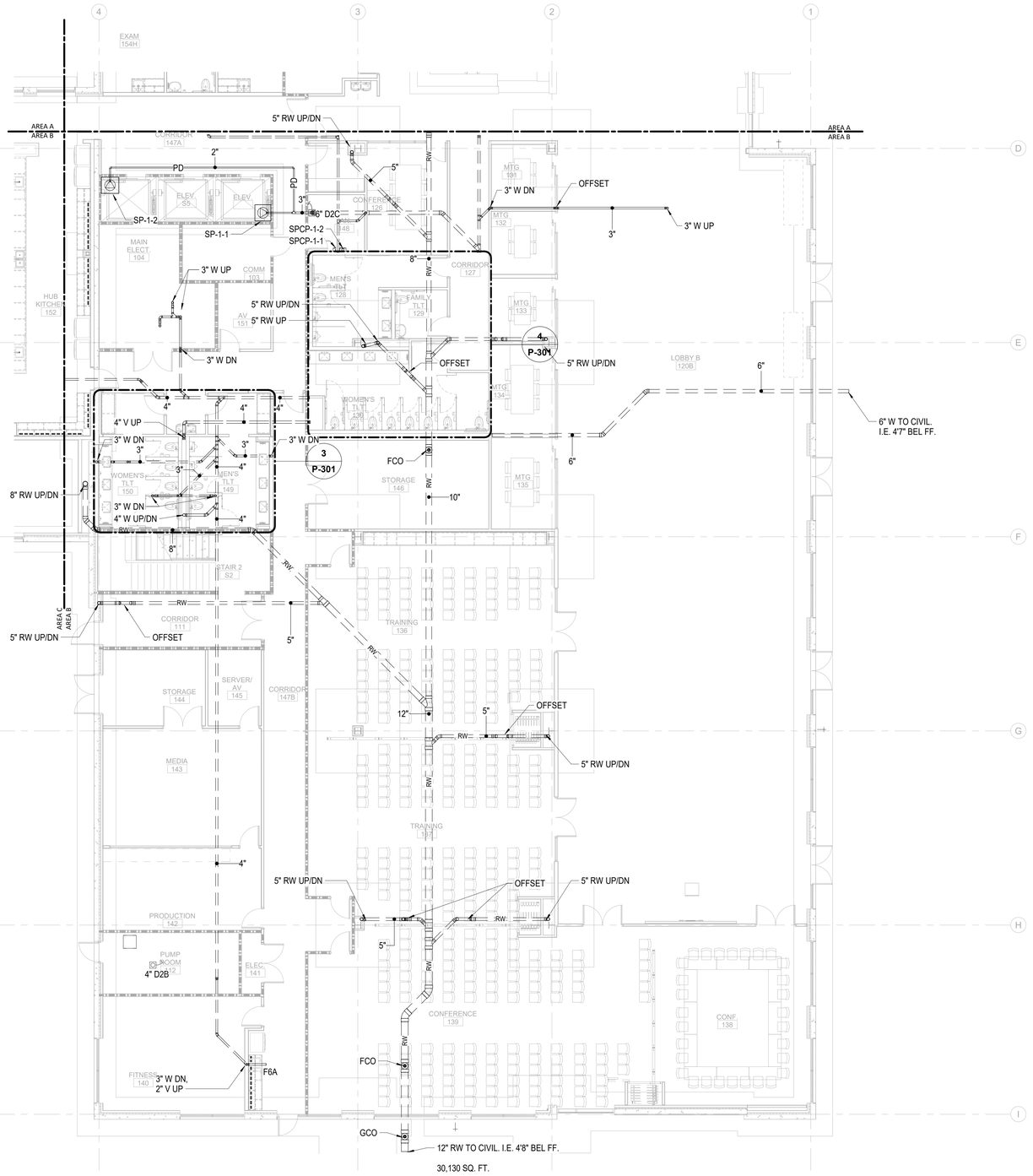


SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 1 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-201A

TI GMP SET



0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 P-201B **PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B** 1/8" = 1'-0"

11/19/2020 6:01:46 PM

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Δ	DATE	DESCRIPTION

KEY PLAN:

SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
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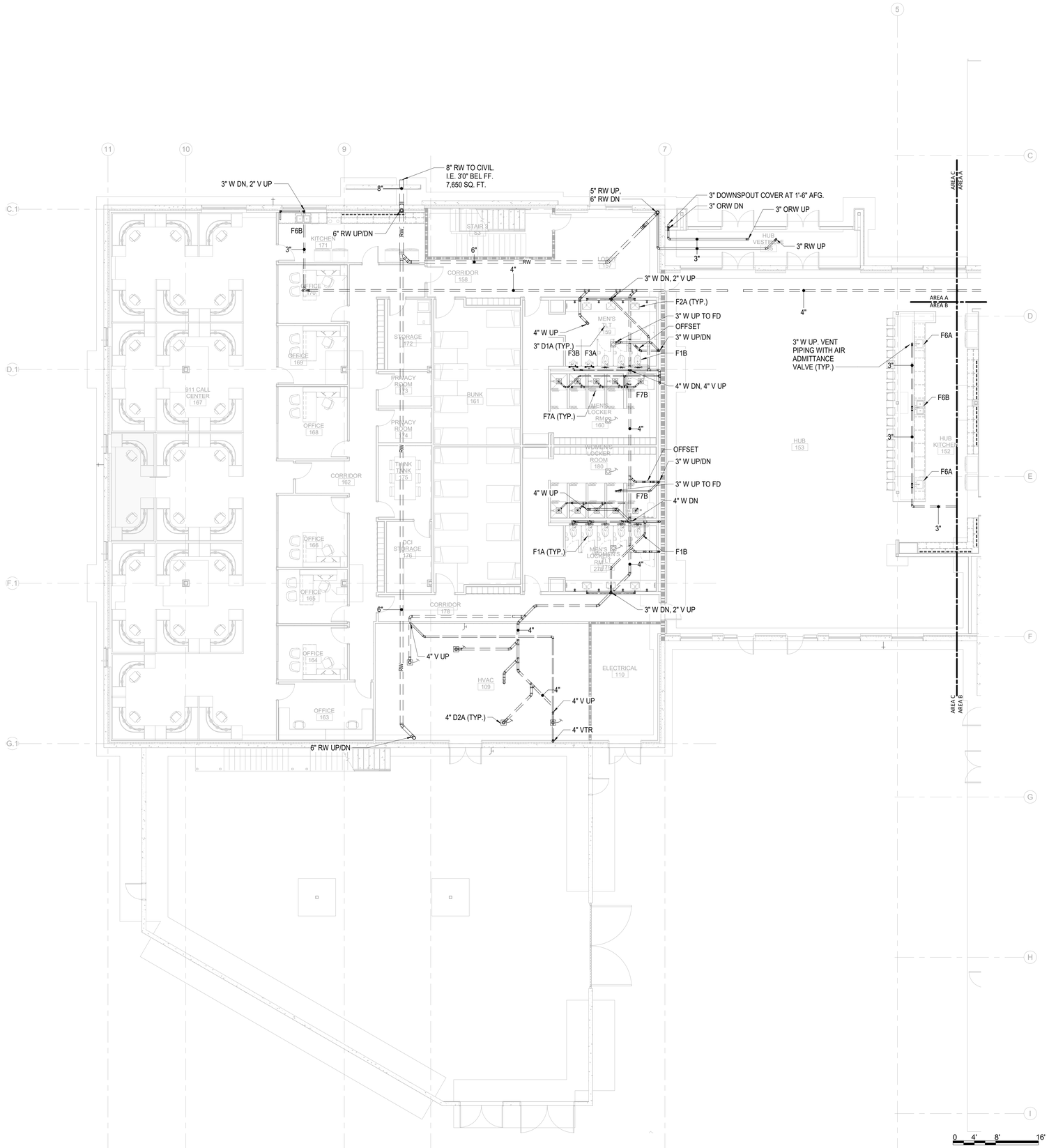

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

11/19/2020 6:02:01 PM

1 P-201C **PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** 1/8" = 1'-0"

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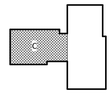
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 1 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-201C

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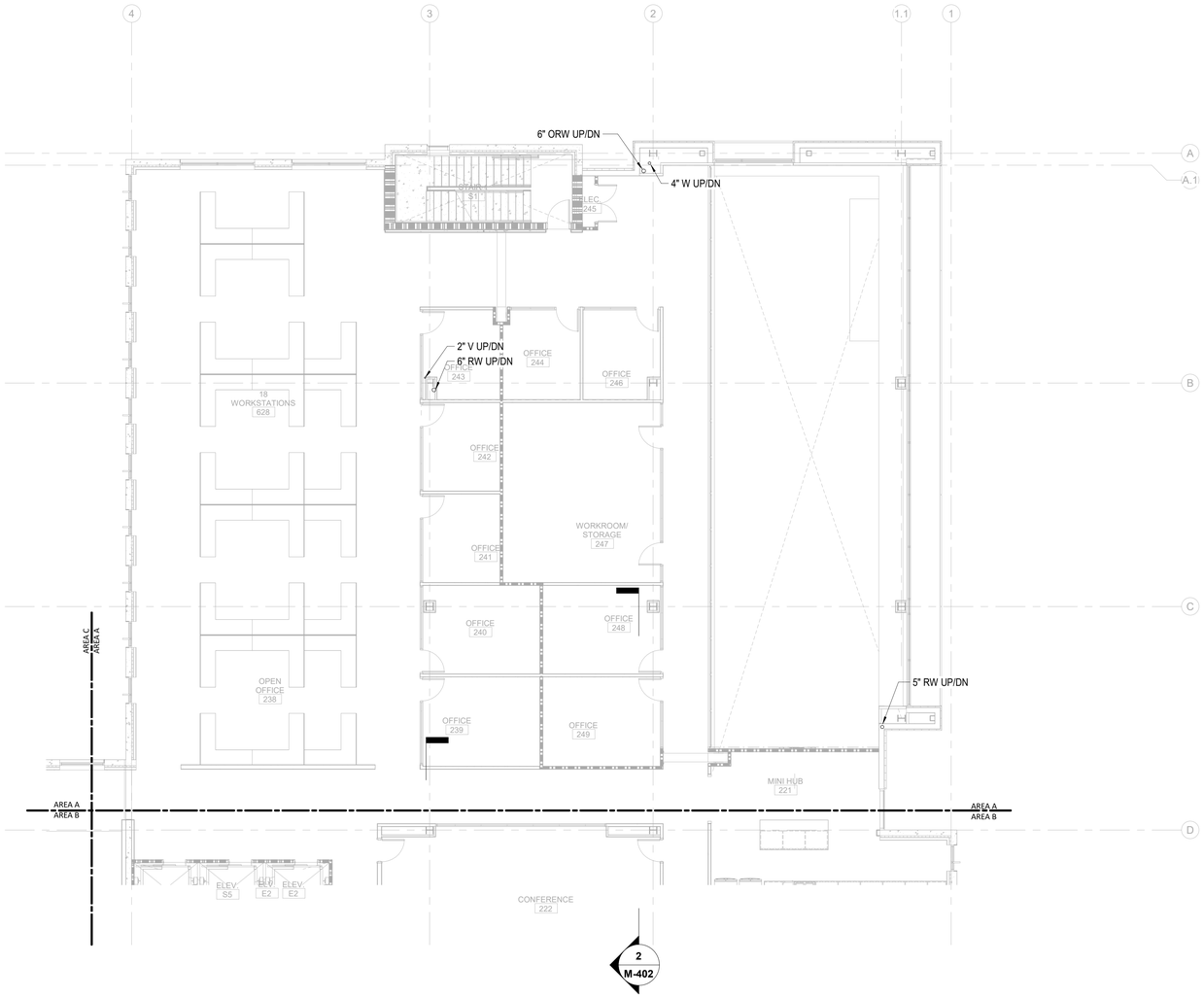

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

11/19/2020 6:02:06 PM

1 / P-202A	PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A	1/8" = 1'-0"

1 2 3 4 5 6

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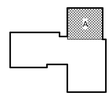
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-202A

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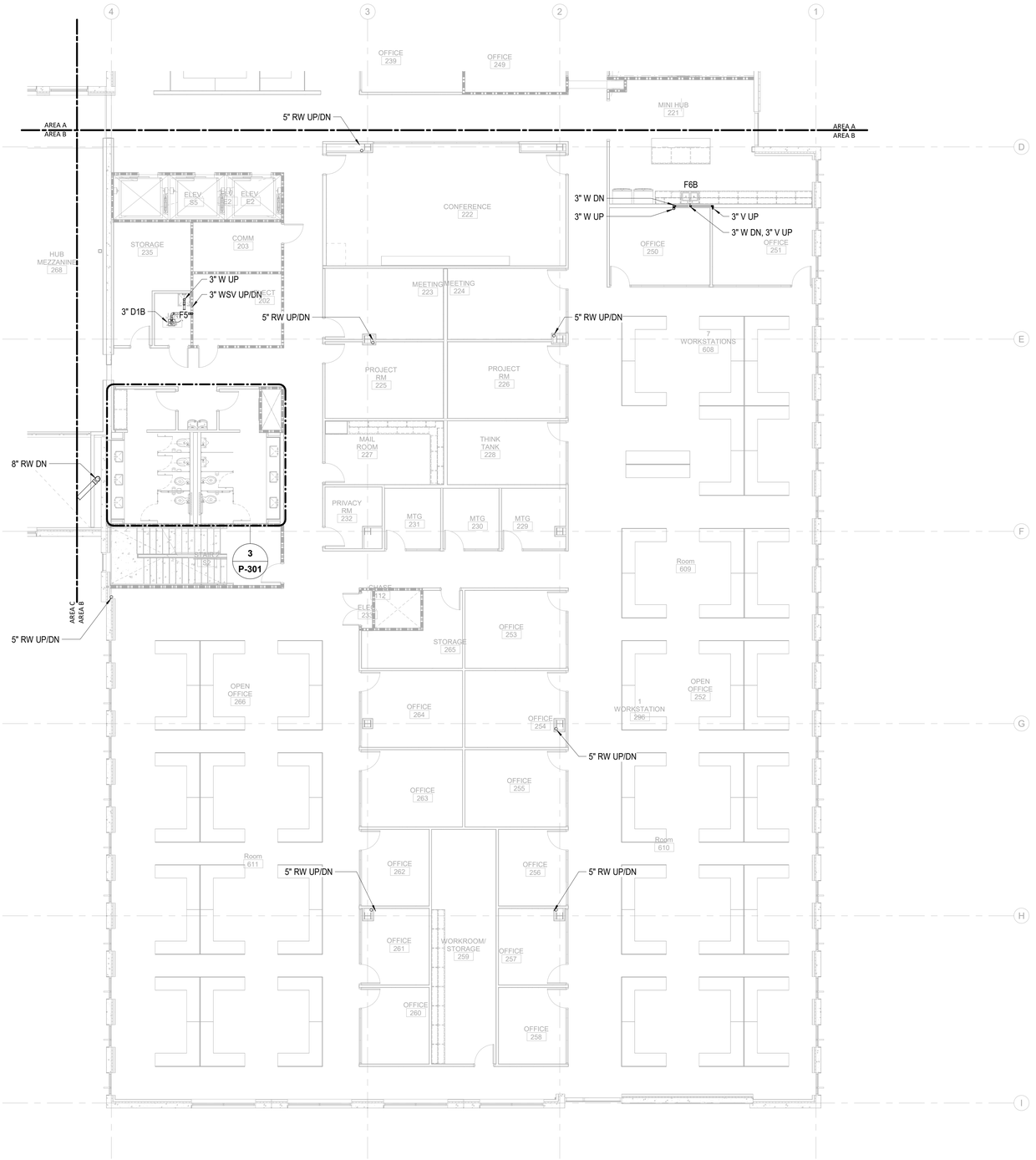

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 P-202B **PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B** 1/8" = 1'-0"

11/19/2020 6:02:12 PM

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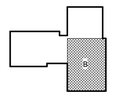
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 2 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-202B

TI GMP SET

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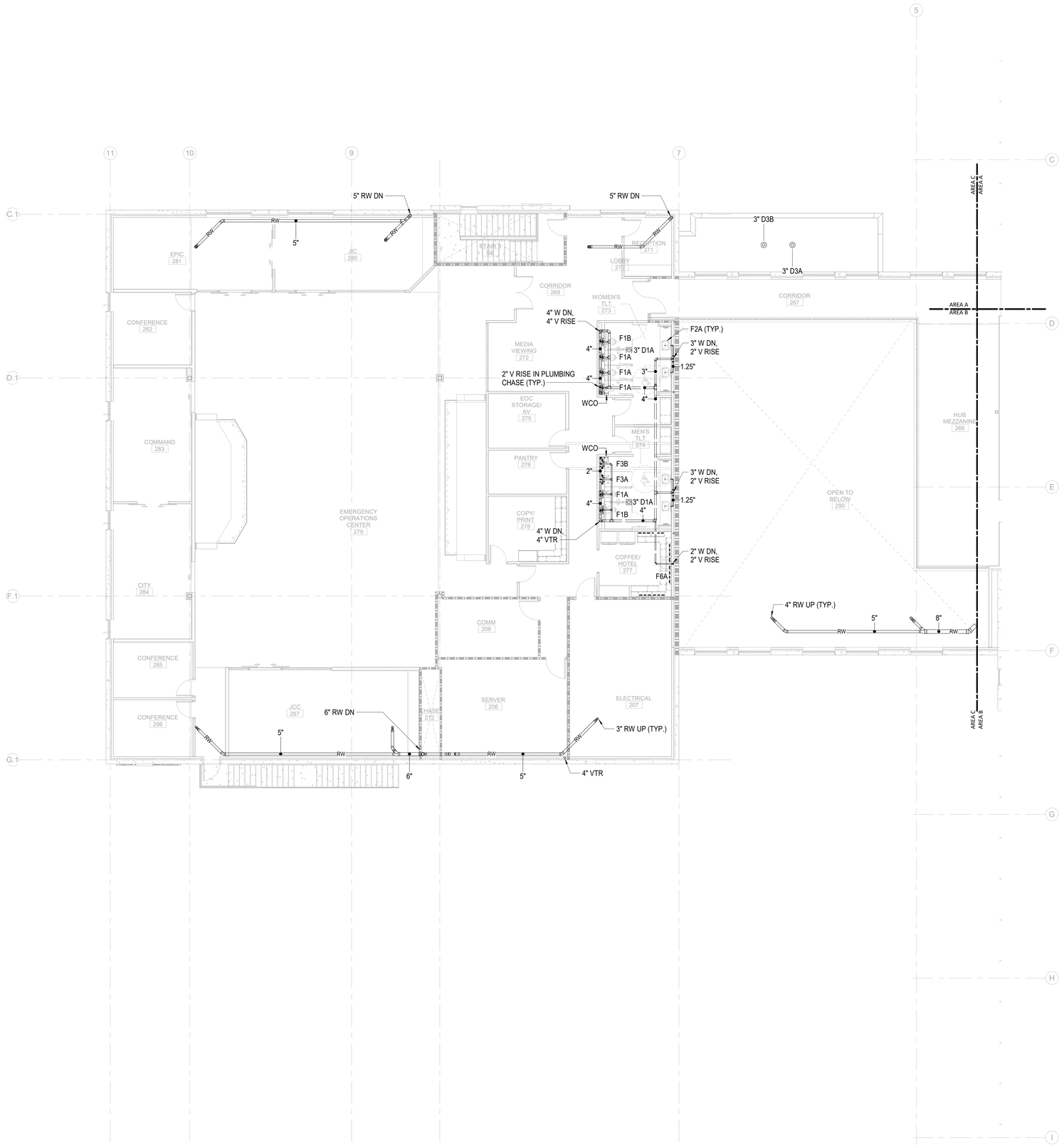
N&B PROJECT: 19N342
Firm License No. F-0312



0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 P-202C **PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** 1/8" = 1'-0"

11/19/2020 6:02:19 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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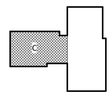
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-202C

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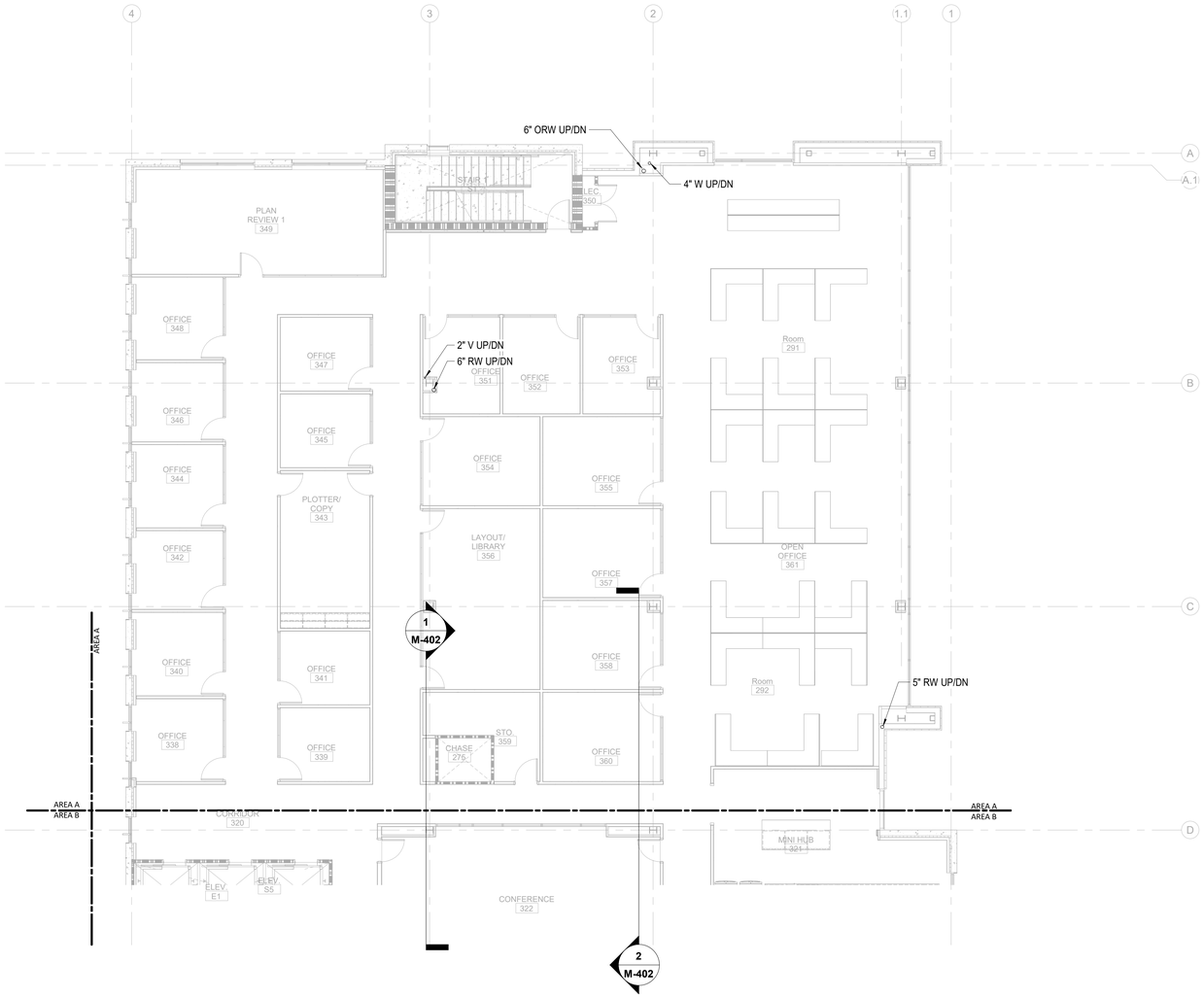

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / P-203A	PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A	1/8" = 1'-0"

11/19/2020 6:02:24 PM

1 2 3 4 5 6

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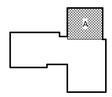
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-203A

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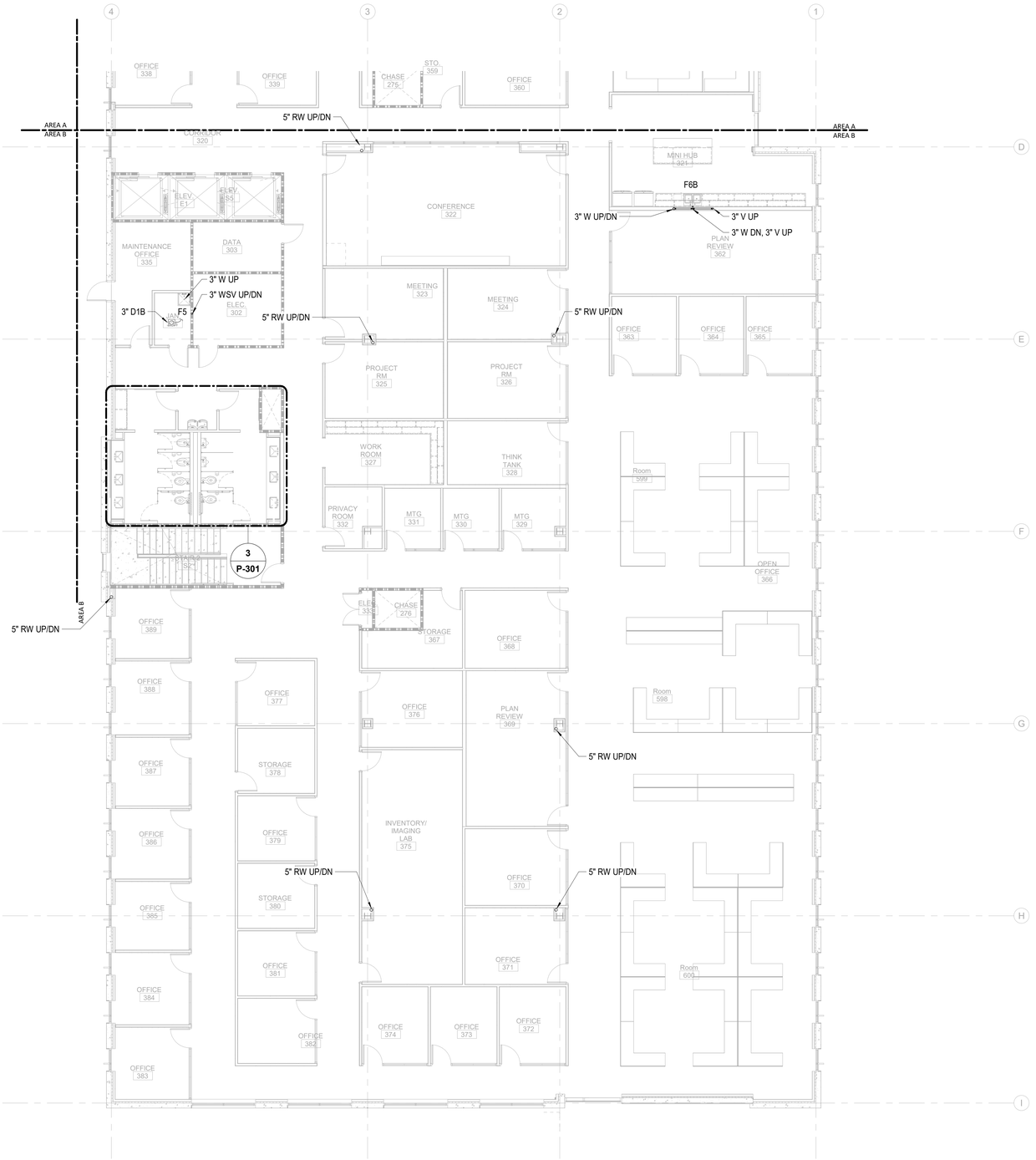

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 P-203B **PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B** 1/8" = 1'-0"

11/19/2020 6:02:31 PM

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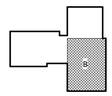
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 3 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-203B

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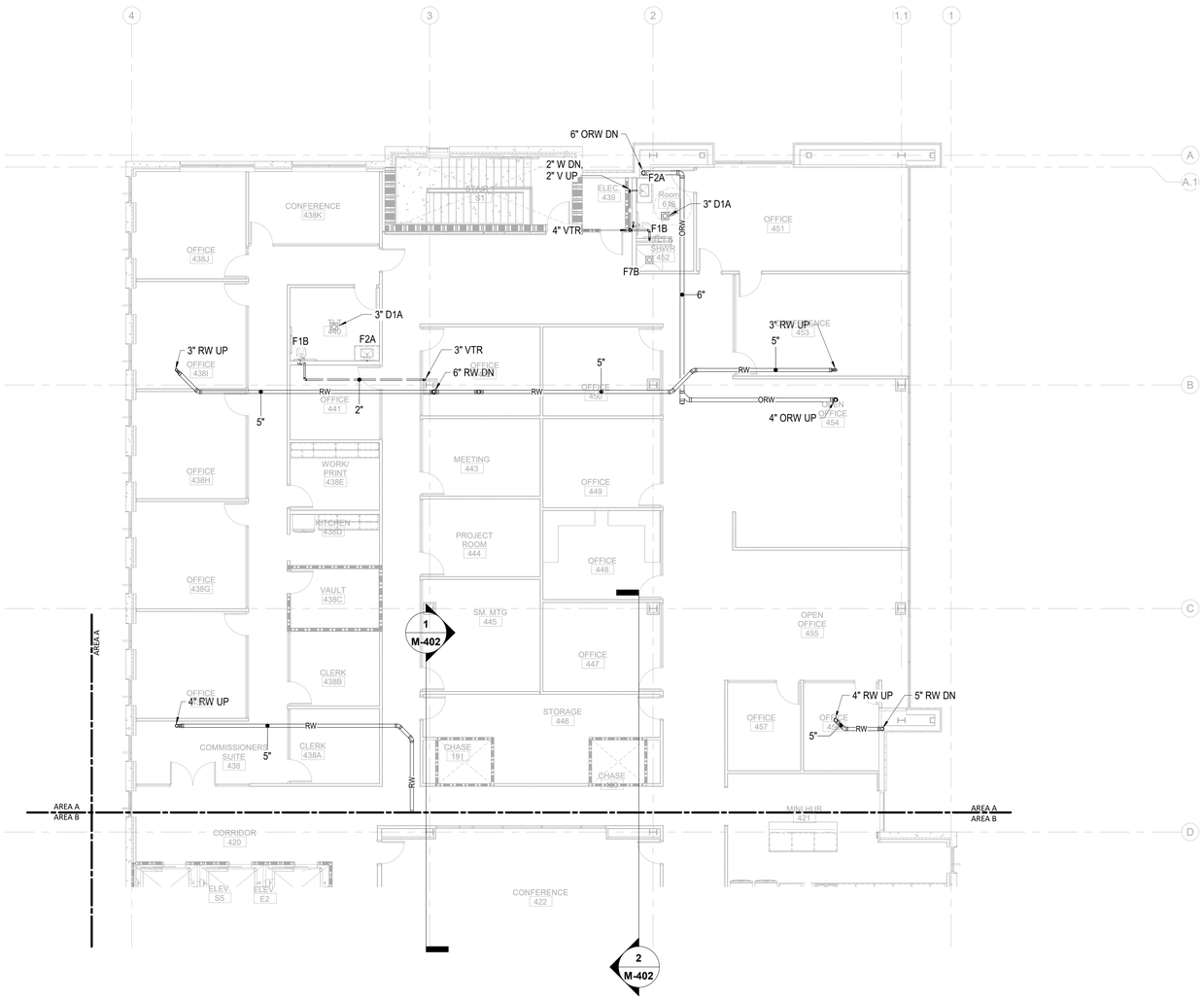

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / P-204A	PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A	1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

11/19/2020 6:02:37 PM

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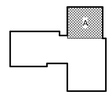
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-204A

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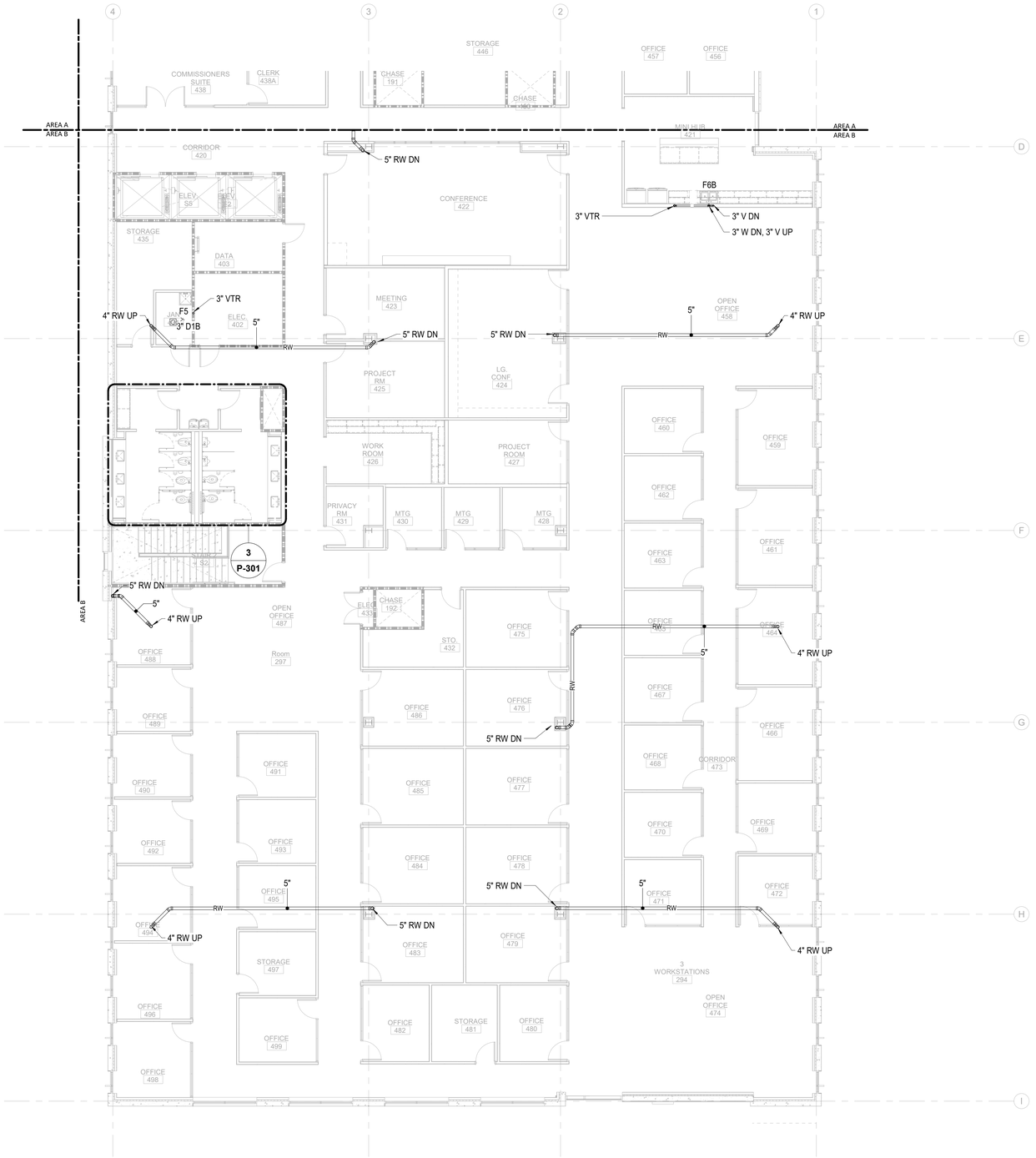
Firm License No. F-0312



0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 P-204B **PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B** 1/8" = 1'-0"

11/19/2020 6:02:45 PM

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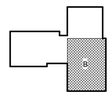
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
PLUMBING WASTE FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-204B

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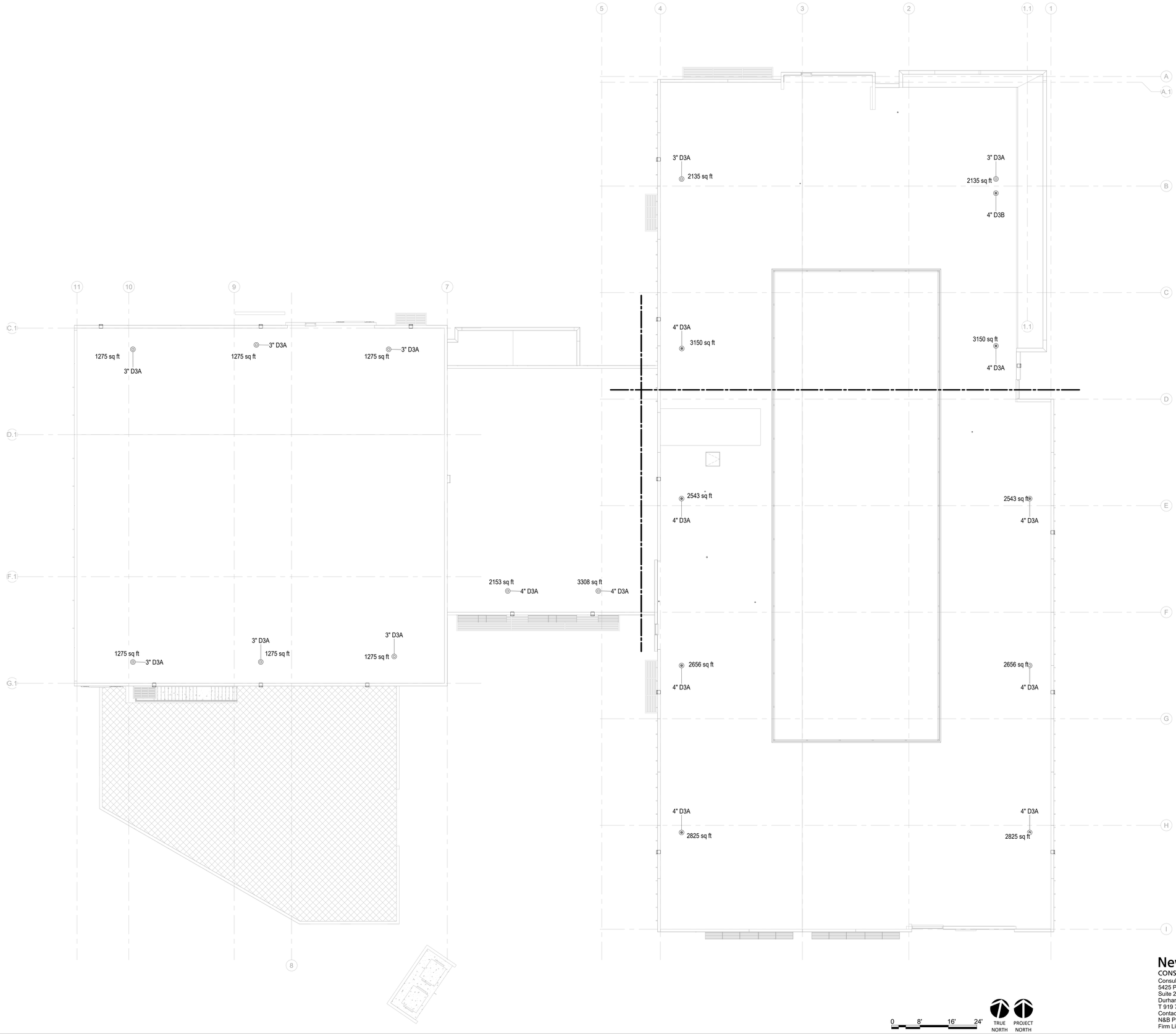

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1 P-205	PLUMBING WASTE ROOF - C&S	3/32" = 1'-0"

CAPE FEAR FD STONEWATER

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KEY PLAN:

SHEET NAME:
PLUMBING WASTE ROOF PLAN - OVERALL

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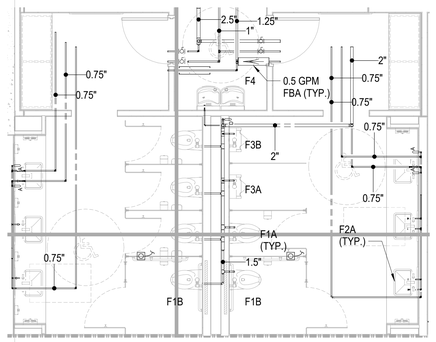

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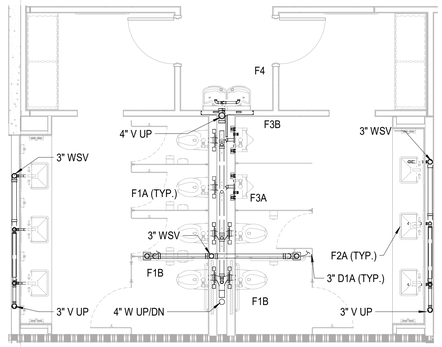
1 P-301 ENLARGED CORE RESTROOMS - PRESSURE

1/4" = 1'-0"



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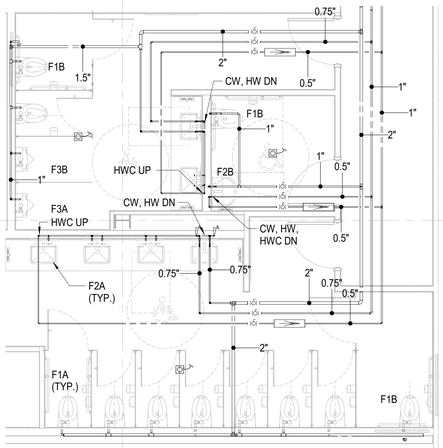
3 P-301 ENLARGED CORE RESTROOMS - WASTE

1/4" = 1'-0"



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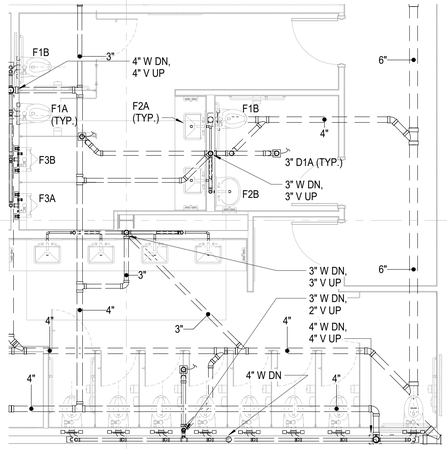
2 P-301 ENLARGED LEVEL 1 GROUP RESTROOMS - PRESSURE

1/4" = 1'-0"



3

4 P-301 ENLARGED LEVEL 1 GROUP RESTROOMS - WASTE

1/4" = 1'-0"

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PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1"	4"	-
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1"	4"	-
F2A	LAVATORY COUNTER MOUNTED, ADA USABLE	0.5"	0.5"	1.25"	-
F2B	LAVATORY WALL MOUNTED, ADA USABLE	0.5"	0.5"	1.25"	-
F2C	LAVATORY COUNTER MOUNTED, STAINLESS STEEL, ADA USABLE	0.5"	0.5"	1.25"	-
F3	URINAL WALL TYPE, ADA USABLE	-	0.75"	2"	-
F4	WATER FOUNTAIN, BI-LEVEL, BOTTLE FILLER, ADA USABLE	-	0.5"	1.25"	-
F5	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	-
F6A	SINGLE BOWL, SS SINK, COUNTER MOUNTED, ADA USABLE	0.5"	0.5"	1.5"	-
F6B	DOUBLE BOWL, SS SINK, COUNTER MOUNTED, ADA USABLE	0.5"	0.5"	1.5"	-
F7A	SHOWER, 1.5 GPM SHOWERHEAD	0.5"	0.5"	2"	-
F7B	SHOWER, 1.5 GPM SHOWERHEAD, ADA USABLE	0.5"	0.5"	2"	-
F8	WASHING MACHINE CONNECTION BOX	0.75"	0.75"	2"	-
F9	REFRIGERATOR ICE MAKER CONNECTION BOX	-	0.5"	-	-

DRAIN SCHEDULE

NO.	TYPE (NOTE 1)	GENERAL LOCATION	NOTES
D1A	F	FINISHED AREA	
D1B	F	JANITOR	
D2A	F	MECHANICAL ROOM	
D2B	FS	MECHANICAL ROOM	
D2C	FS	SP DISCHARGE	
D3A	R	ROOF	
D3B	R	ROOF	

NOTES: (D-DRAIN)

1. TYPE:
   - F FLOOR DRAIN
   - FS FLOOR SINK
   - R ROOF DRAIN
   - P PARKING DRAIN
   - T TRENCH DRAIN

WATER HEATER SCHEDULE

NO.	SERVICE	TYPE (NOTE 1)	ENERGY SOURCE SOURCE (NOTE 2)	DEMAND	STORAGE CAPACITY, GAL	RECOVERY CAPACITY, GPH (NOTE 3)	NOTES
WH-1-1	DOMESTIC	S	E	SEE ELECTRICAL	120	123	3,4,5
WH-1-2	DOMESTIC	S	E	SEE ELECTRICAL	250	220	3,4,5
WH-3-1	DOMESTIC	S	E	SEE ELECTRICAL	80	74	3,4,5

NOTES: (WH-WATER HEATER)

1. TYPE:
   - S STORAGE
2. SOURCE:
   - E ELECTRIC
3. BASED ON 100°F DIFFERENTIAL BETWEEN INLET AND OUTLET WATER TEMPERATURES.
4. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT CONTROL POWER CIRCUITS.
5. WATER DISCHARGE SET POINT SHALL BE 140°F.

MASTER MIXING VALVE SCHEDULE

NO.	TYPE (NOTE 1)	SERVICE	FLOW GPM	HOT WATER INLET °F	TEMP WATER OUTLET °F	MAXIMUM PRESSURE DROP, PSIG	MINIMUM CIRCULATING FLOW RATE, GPM
MV-1-1	D	DOMESTIC	28	140	120	10	0.5
MV-1-2	D	DOMESTIC	30	140	120	10	0.5
MV-3-1	D	DOMESTIC	22	140	120	10	0.5

NOTES: (MV-MIXING VALVE)

1. TYPE
   - D DIGITAL MIXING VALVE ASSEMBLY

HOT WATER CIRCULATING PUMP SCHEDULE

NO.	SERVICE	GPM	TOTAL DYNAMIC HEAD, FT. WG	MINIMUM MOTOR HP	VIBRATION ISOLATION TYPE	MIN. STATIC DEFLECTION, IN.	NOTES
RCP-1-1	DOMESTIC	7.5	20	1/3	IL	0.25	2
RCP-1-2	DOMESTIC	3.0	15	1/3	IL	0.25	2
RCP-3-1	DOMESTIC	4.0	10	1/8	IL	0.25	2

NOTES:

1. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
2. PROVIDE FLEXIBLE METAL HOSE. BRONZE INNER CORRUGATE HOSE AND OUTER WOVEN BRAID SHEATH. CONNECTORS SHALL MEET FDA AND NSF LEAD FREE REQUIREMENTS. PRESSURE RATED FOR 150 PSI (MIN.)

WATER PRESSURE BOOSTER SYSTEM SCHEDULE

NO.	GPM PUMP 1	GPM PUMP 2	SUCTION PRESSURE, PSI (NOTE 3)	TOTAL DYNAMIC HEAD, FT. WG	MINIMUM MOTOR HP PUMP 1	MINIMUM MOTOR HP PUMP 2	VIBRATION ISOLATION TYPE	VIBRATION ISOLATION MIN. STATIC DEFLECTION, IN.	VIBRATION ISOLATION INERTIA BASE	NOTES
WPB-1-1	119	119	33	85	3	3	NA	NA	NO	2, 4

NOTES:

1. NOMINAL MOTOR RPM SHALL BE 3500.
2. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
3. SUPPLY SIDE LOSSES HAVE BEEN ACCOUNTED FOR IN SUCTION PRESSURE.
4. PUMP SHALL BE SUPPLIED WITH VIBRATION ISOLATION PADS BY THE MANUFACTURER.
5. SET DISCHARGE PRESSURE OF WPB-1-1 AT 70 PSI.

SUMP PUMP SCHEDULE

NO.	SERVICE (NOTE 1)	TYPE (NOTE 2)	GPM (NOTE 3)	TOTAL DYNAMIC HEAD, FT. WG	MINIMUM MOTOR HP	PIT DIMENSIONS SIZE	PIT DIMENSIONS DEPTH	NOTES
SP-1-1	SU	S - I	100	25	1.5	36" x 36"	36"	3
SP-1-2	SU	S - I	50	25	0.5	24" X 24"	24"	3

NOTES:

1. SERVICE:
   - SU SUMP
2. TYPE:
   - S SIMPLEX I INTERIOR
3. REFER TO ELECTRICAL DRAWING FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.

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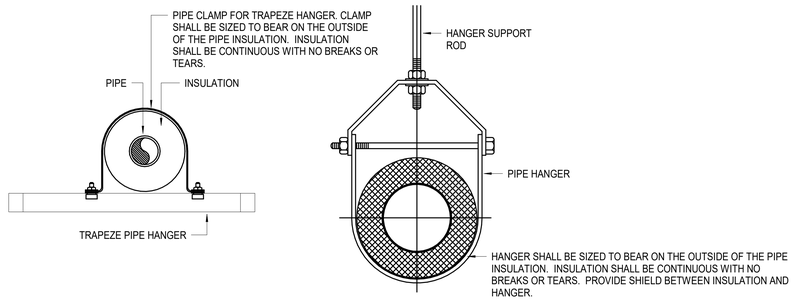
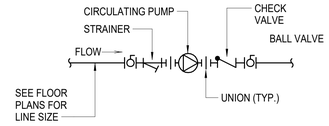
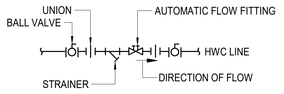


10 PIPE SUPPORTS
NO SCALE



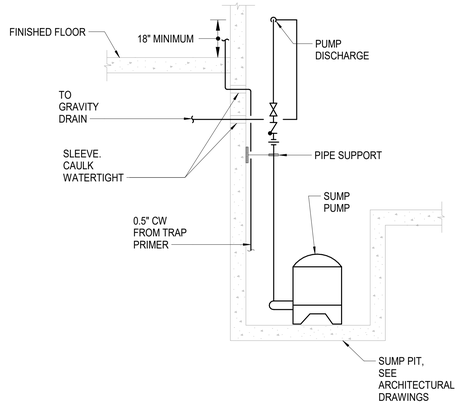
7 CIRCULATING PUMP ASSEMBLY
NO SCALE

NOTES:
1. VALVES AND ACCESSORIES SHALL BE LINE SIZE.
2. SEE FLOW BALANCING ASSEMBLY SCHEDULE FOR FLOW RATES.
3. INSTALL INSULATION UP TIGHT TO VALVES ON EACH SIDE OF THE ASSEMBLY

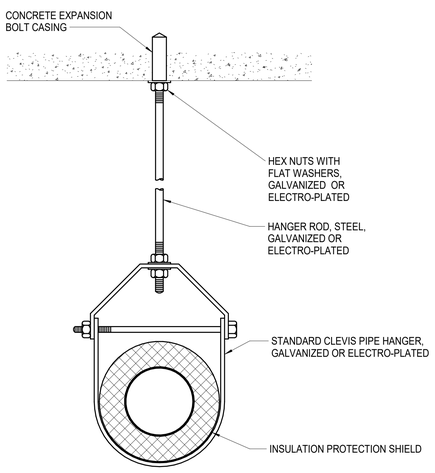


4 HOT WATER CIRCULATION FLOW BALANCING ASEMBLIES
NO SCALE

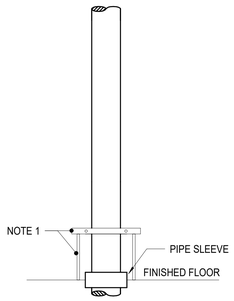
NOTES:
1. VALVES AND ACCESSORIES SHALL BE LINE SIZE.



1 ELEVATOR SUMP PUMPS
NO SCALE

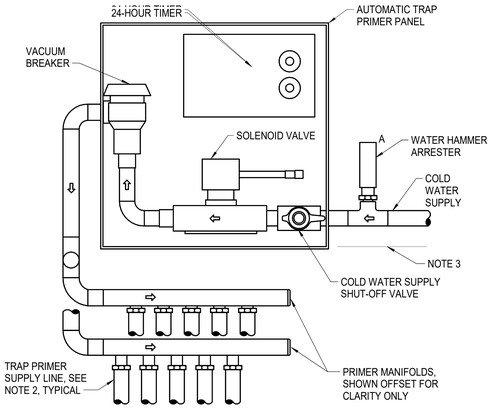


11 PIPE HANGER
NO SCALE



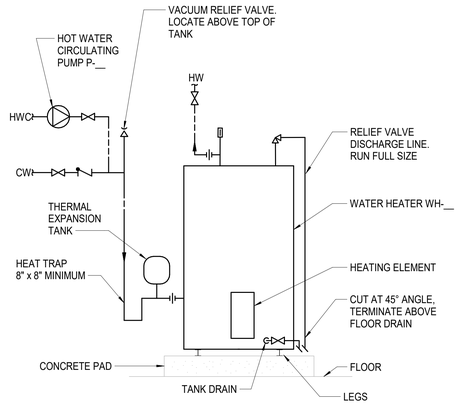
8 VERTICAL PIPE SUPPORT (FREE-STANDING PIPE)
NO SCALE

NOTES:
1. PROVIDE RISER CLAMP 6" AFF SECURED TO FLOOR WITH THREADED ROD FOR FREE-STANDING WATER RISERS AND SOIL, WASTE, VENT, & RW STACKS. ALSO PROVIDE WHERE HORIZONTAL SOIL, WASTE, VENT, & RW LINES NOT LOCATED NEAR WALLS OR COLUMNS TRANSITION TO THE VERTICAL.
2. PROVIDE SLEEVES WHERE PIPING PENETRATES FLOORS ABOVE SLAB ON GRADE.



5 AUTOMATIC TRAP PRIMER PANELS
NO SCALE

NOTES:
1. CAP UNUSED OUTLETS FOR FUTURE CONNECTION.
2. TRAP PRIMER LINES, DOWNSTREAM OF TRAP PRIMER DEVICE TO FLOOR DRAINS, SHALL BE ROUTED WITH DOWNWARD GRAVITY SLOPE TOWARD FLOOR DRAINS. POCKETS, UPWARD TURNS AND/OR TRAPS IN GRAVITY LINES SHALL NOT BE PERMITTED.
3. MOUNT TRAP PRIMER PANEL A MINIMUM OF 12" ABOVE THE FINISHED FLOOR FOR EVERY 20' LENGTH OF HORIZONTAL RUN.

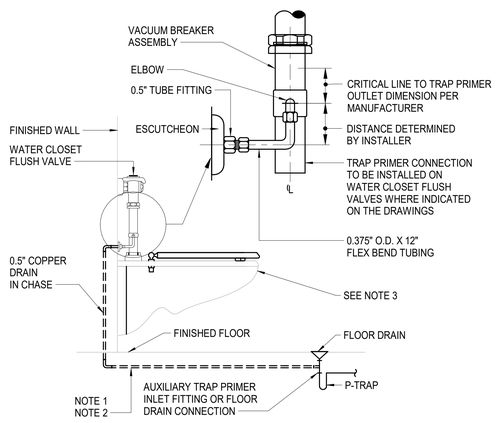


2 ELECTRIC WATER HEATERS
NO SCALE



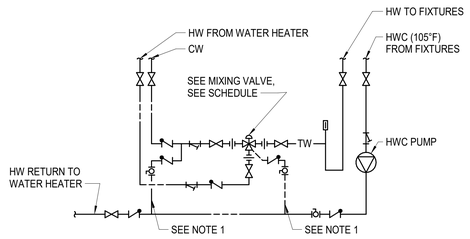
9 VERTICAL PIPE SUPPORT DETAIL
NO SCALE

NOTES:
1. PROVIDE RISER CLAMP MID-WAY BETWEEN CEILING STRUCTURE & FLOOR FOR WATER RISERS & SOIL, WASTE, VENT, & RAINWATER STACKS.
2. PROVIDE SIMILAR SUPPORT WHERE HORIZONTAL WATER, SOIL, WASTE, VENT, & RAINWATER LINES DROP AGAINST WALLS & COLUMNS.
3. PROVIDE SLEEVES WHERE PIPING PENETRATES FLOORS ABOVE SLAB ON GRADE.



6 FLUSH VALVE TRAP PRIMERS
NO SCALE

NOTES:
1. TRAP PRIMER LINE, DOWNSTREAM OF TRAP PRIMER DEVICE TO FLOOR DRAIN, SHALL BE ROUTED WITH DOWNWARD GRAVITY SLOPE TOWARD FLOOR DRAIN. POCKETS, UPWARD TURNS AND/OR TRAPS IN THE GRAVITY LINE SHALL NOT BE PERMITTED.
2. TRAP PRIMER PIPING FOR FLOOR DRAINS THAT HAVE THE TRAP PRIMER CONNECTION ON THE DRAIN BODY SHALL BE RUN IN FLOOR FILL. PROVIDE CONTINUOUS POLYETHYLENE SLEEVE WHERE PIPING RUNS IN FLOOR FILL.
3. THIS DETAIL APPLIES TO WALL HUNG AND FLOOR MOUNTED FLUSH VALVE WATER CLOSETS. SEE PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPE.



3 MASTER MIXING VALVES
NO SCALE

NOTES:
1. TWC CONNECTION LOCATION VARIES DEPENDING ON MIXING VALVE MANUFACTURER. CONNECT TWC TO MIXING VALVE AS SHOWN IN MANUFACTURER'S PUBLISHED INSTALLATION DETAILS.

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1 FIRE PUMP FP-1

2 JOCKEY PUMP JP-1

3 CONNECTION TO POST INDICATOR VALVE, BACKFLOW PREVENTER, AND CITY WATER MAIN

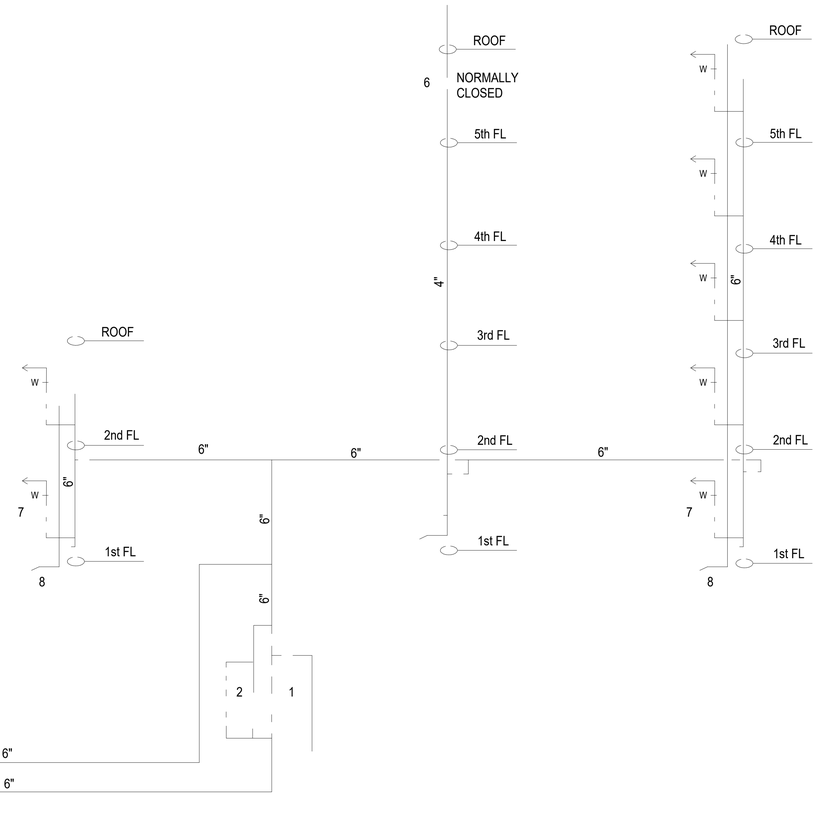
4 CONNECTION TO 4-WAY FDC

5 ROOF MANIFOLD WITH TWO 2.5" HOSE VALVES

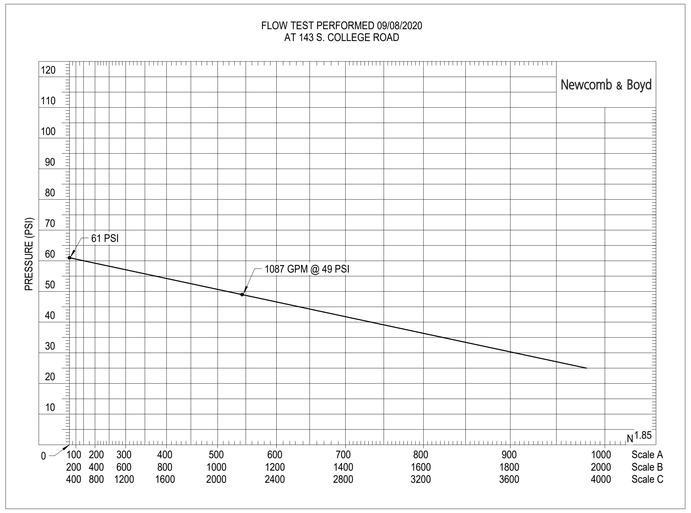
6 ROOF MANIFOLD ISOLATION VALVE

7 TYPICAL SPRINKLER CONTROLS

8 RISER DRAIN - DRAIN TO EXTERIOR



3 FP-001	FIRE PROTECTION RISER DIAGRAM	NTS



1 FP-001	WATER SUPPLY	NTS

FIRE PUMP SCHEDULE

NO.	TYPE	RATED FLOW, GPM	RATED HEAD, PSI	PUMP CHURN PRESSURE, PSI (MAX)	STATIC SUPPLY PRESSURE, PSI (MAX)	DRIVER TYPE	DRIVER HORSEPOWER (MAXIMUM)	START, PSI	STOP, PSI
FP-1	FIRE	500	60	72	61	ELECTRIC	25	130	-
JP-1	JOCKEY	10	70	84	61	ELECTRIC	3	145	135

2 FP-001	FIRE PUMP SCHEDULE	NTS

FIRE PROTECTION NOTES AND CRITERIA

1. THE WORK SHOWN ON THESE DRAWINGS CONSTITUTES A PRELIMINARY PLAN OF THE FIRE PROTECTION SYSTEM AS DEFINED BY NFPA 13. THE PURPOSE IS TO DEFINE THE SCOPE OF WORK, SHOW THE PRIMARY SYSTEM FEATURES, ESTABLISH PERFORMANCE CRITERIA, AND DESCRIBE A LEVEL OF QUALITY FOR REVIEW BY ALL AUTHORITIES HAVING JURISDICTION. FABRICATION SHOP DRAWINGS AND SUPPORTING HYDRAULIC CALCULATIONS, INCLUDING ADDITIONAL DETAIL AS REQUIRED BY NFPA 13, SHALL BE PREPARED BY THE INSTLALING CONTRACTOR AND SUBMITTED FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION OF ANY MATERIALS.
2. FIRE PROTECTION SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13-2013, NFPA 14-2013, AND NFPA 20-2013.
3. SPRINKLER CONTRACTOR'S WORK SHALL BEGIN 12" ABOVE BUILDING WATER ENTRANCE.
4. BUILDING IS PROTECTED BY A SYSTEM OF COMBINATION MANUAL WET STANDPIPES AND AUTOMATIC SPRINKLERS. PRESSURES FOR SPRINKLER DEMAND ARE SUPPLIED BY THE BUILDING FIRE PUMP. PRESSURES FOR MANUAL STANDPIPES ARE PROVIDED AT THE FIRE DEPARTMENT CONNECTION.
5. FIRE DEPARTMENT CONNECTION IS A FREE-STANDING 4-WAY TYPE LOCATED WITHIN 100 FEET OF A FIRE HYDRANT.
6. STORAGE, MECHANICAL, TELECOM, DATA, AND ELECTRICAL ROOMS ARE CLASSIFIED ORDINARY HAZARD GROUP 1 WITH DESIGN DENSITY 0.15 GPM/SQFT OVER 1500 SQFT. KITCHEN SPACES ARE CLASSIFIED ORDINARY HAZARD GROUP 2 WITH DESIGN DENSITY 0.20 GPM/SQFT OVER 1500 SQFT. ALL OTHER SPACES ARE CLASSIFIED LIGHT HAZARD WITH DESIGN DENSITY 0.10 GPM/SQFT OVER 1500 SQFT.
7. ALL PENDANT SPRINKLERS SHALL BE CONCEALED TYPE WITH WHITE COVERPLATE. COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL CEILING PLAN.
8. PROVIDE AN ARMOVER FOR EACH PENDANT SPRINKLER. CONNECTIONS TO SIDE OR BOTTOM OF BRANCH LINES ARE NOT PERMITTED.
9. SERVER ROOM ON LEVEL 2 IS PROTECTED BY A FM-200 CLEAN AGENT SUPPRESSION SYSTEM AND A DOUBLE-INTERLOCKED PREACTION SPRINKLER SYSTEM.
10. PROVIDE A CONCRETE SPLASH BLOCK FOR ALL EXTERIOR FIRE PROTECTION DRAINS.

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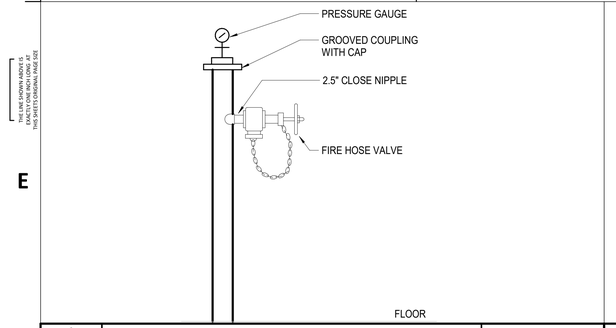
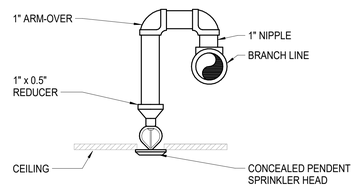
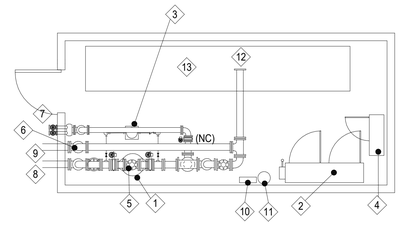


1 FP-002	EXPOSED TERMINATION OF STANDPIPE	NTS

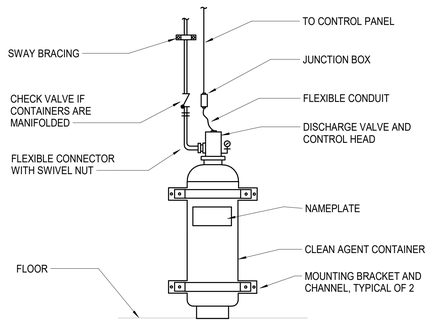


2 FP-002	PENDENT SPRINKLER ARM-OVERS	NTS

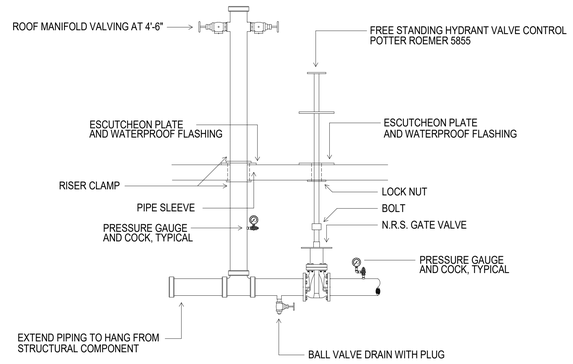


1. IN-LINE CENTRIFUGAL FIRE PUMP ON CONCRETE PAD
2. FIRE PUMP CONTROLLER AND TRANSFER SWITCH ON CONCRETE PAD
3. JOCKEY PUMP ON CONCRETE PAD
4. JOCKEY PUMP CONTROLLER ON CONCRETE PAD
5. 6" PUMP BYPASS (OPEN)
6. CHECK VALVE IN RISE
7. FIRE PUMP TEST HEADER
8. 6" FIRE WATER SERVICE FROM PIV AND BACKFLOW PREVENTER
9. 6" TO FIRE DEPARTMENT CONNECTION
10. SPARE SPRINKLER CABINET
11. PVC TUBE WITH AS-BUILT SPRINKLER SHOP DRAWINGS
12. TO STANDPIPE FEEDMAIN
13. PLUMBING EQUIPMENT IN THIS AREA

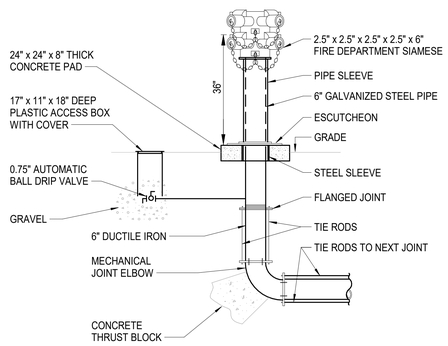
3a FP-002	FIRE PUMP ROOM DETAIL	NTS



4 FP-002	FLOOR MOUNTED CLEAN AGENT CONTAINERS	NTS



5 FP-002	ROOF MANIFOLD VALVE ASSEMBLY	NTS



NOTES:
1. COAT TIE RODS, FLANGES AND BOLTS WITH 2 COATS OF TAR AFTER ASSEMBLY.
2. COAT GALVANIZED PIPE WITH TAR AND WRAP WITH PLASTIC TAPE PRIOR TO INSTALLATION OF PIPE SLEEVE.

6 FP-002	FREE-STANDING FIRE DEPARTMENT CONNECTIONS	NTS

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Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

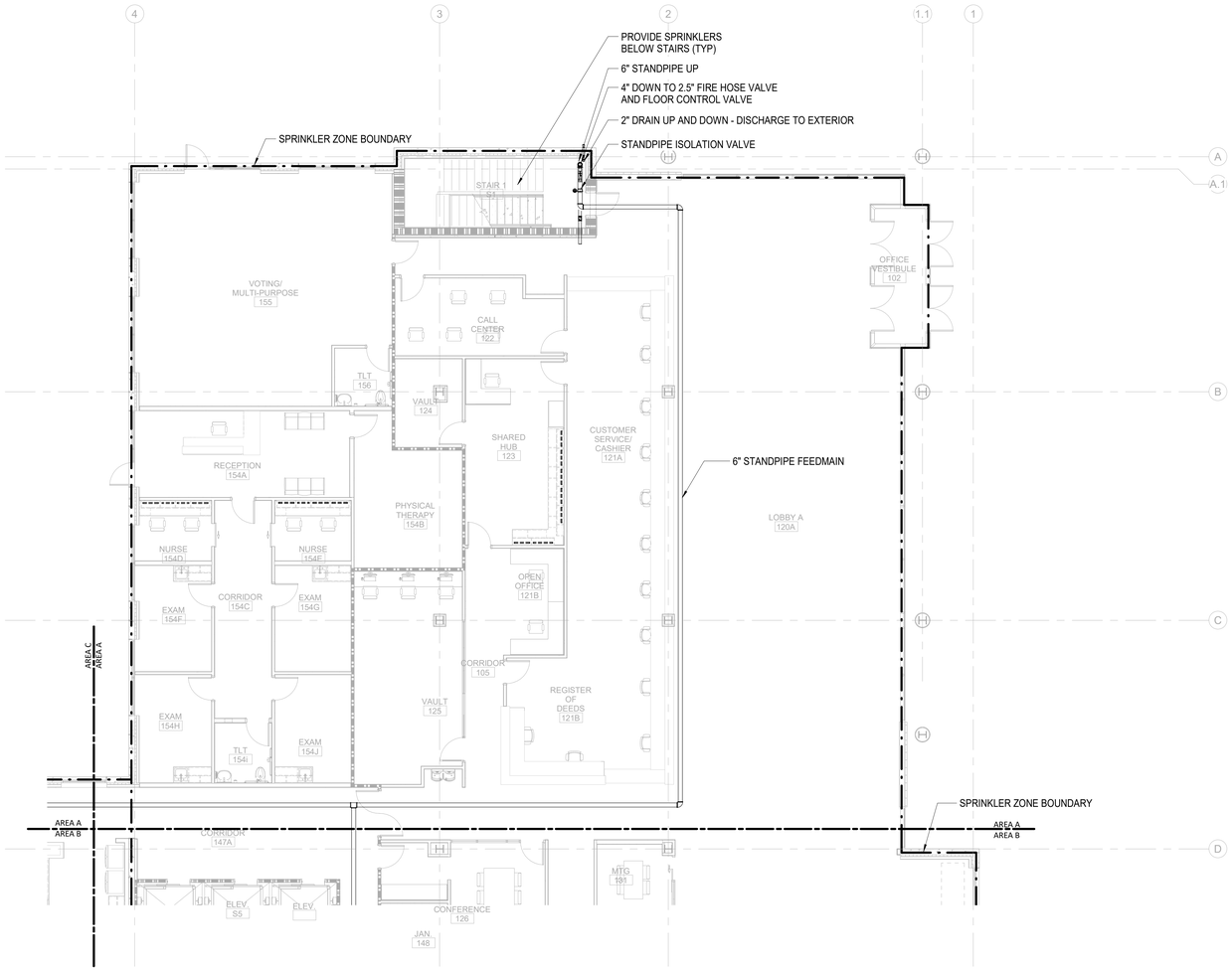
SHEET NAME:
FIRE PROTECTION DETAILS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FP-002

TI GMP SET

11/19/2020 2:34:44 PM



THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / FP-101A	FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"

11/19/2020 2:34:48 PM

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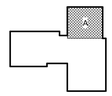
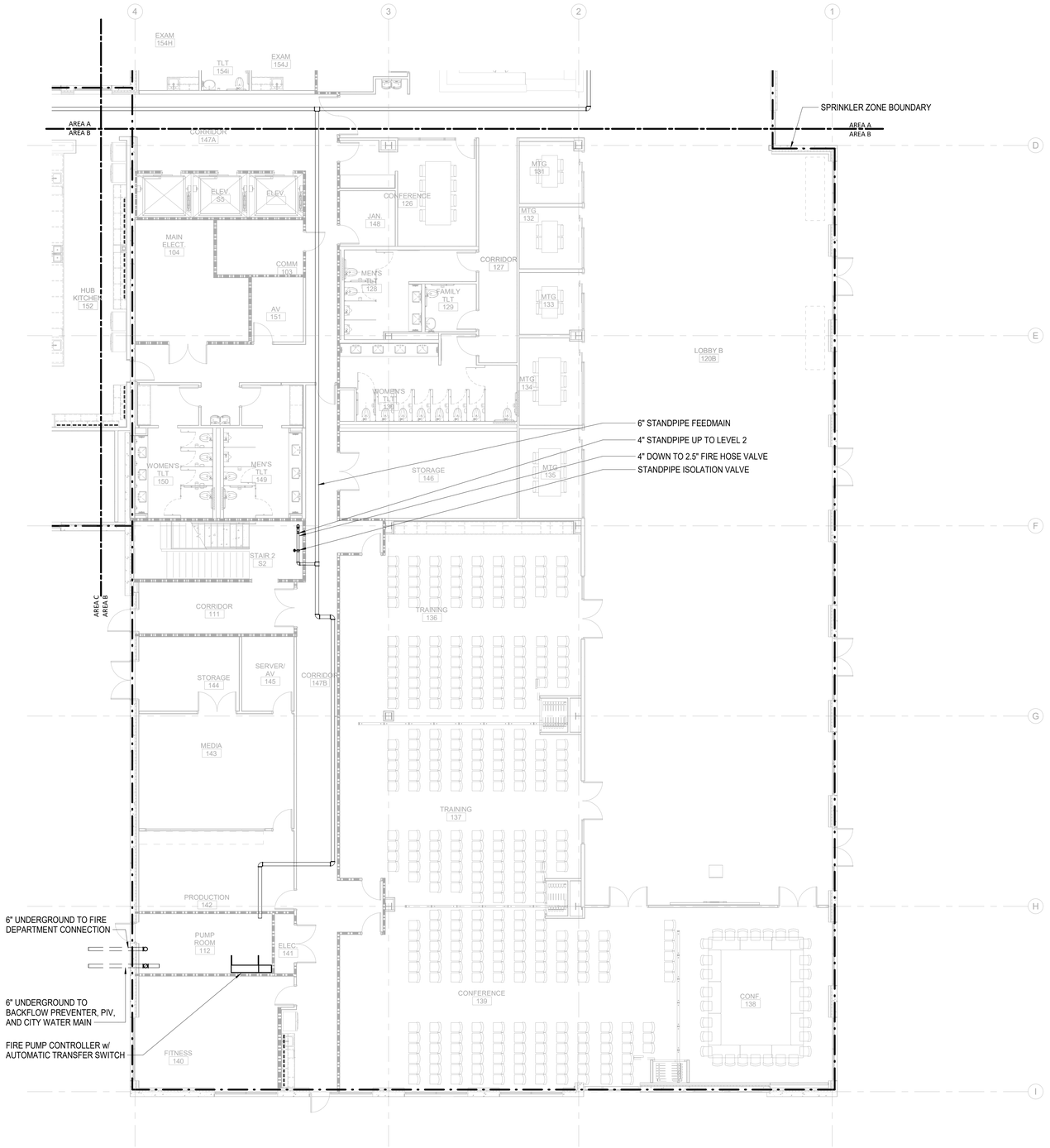


SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 1 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FP-101A

TI GMP SET



1 FP-101B **FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B** 1/8" = 1'-0"

11/19/2020 2:34:55 PM

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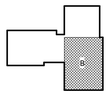
KEY PLAN:



SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
FP-101B

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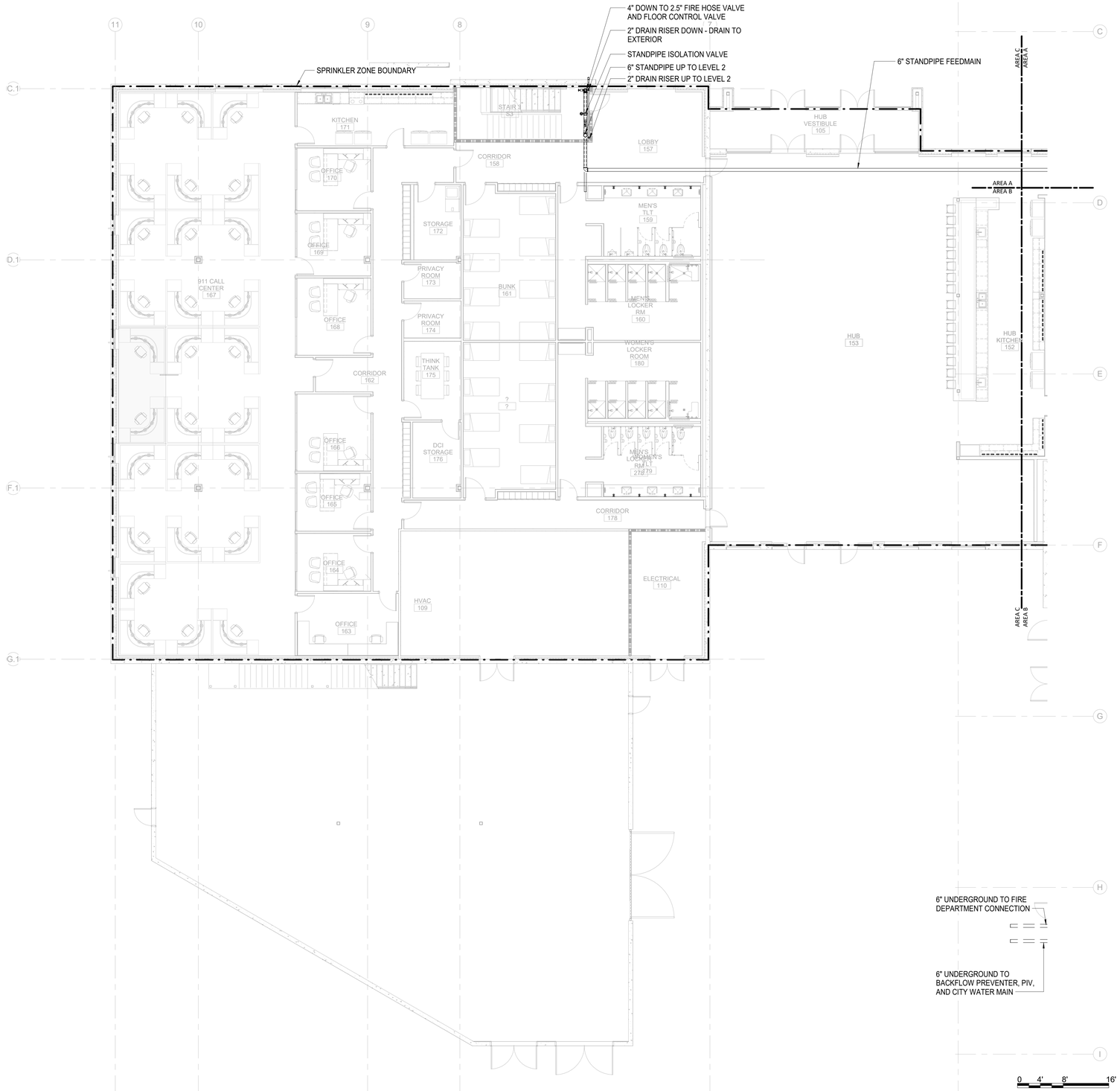

1 FP-101C **FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** 1/8" = 1'-0"

11/19/2020 2:35:01 PM

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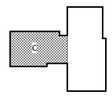

SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 1 - AREA C

DATE:
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SHEET:
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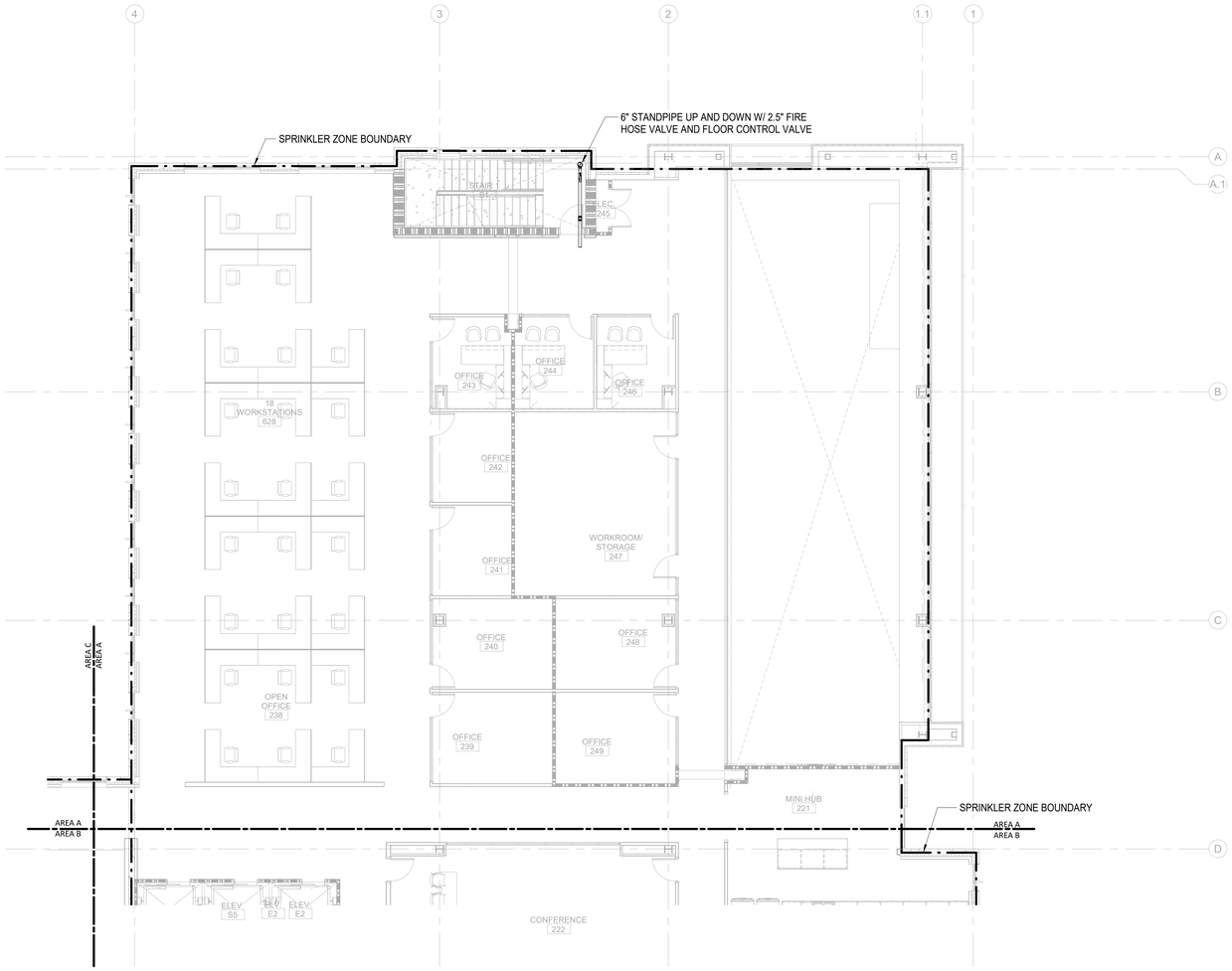

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 FP-102A **FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A** 1/8" = 1'-0"

11/19/2020 2:35:05 PM

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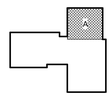
Δ	DATE	DESCRIPTION

KEY PLAN:

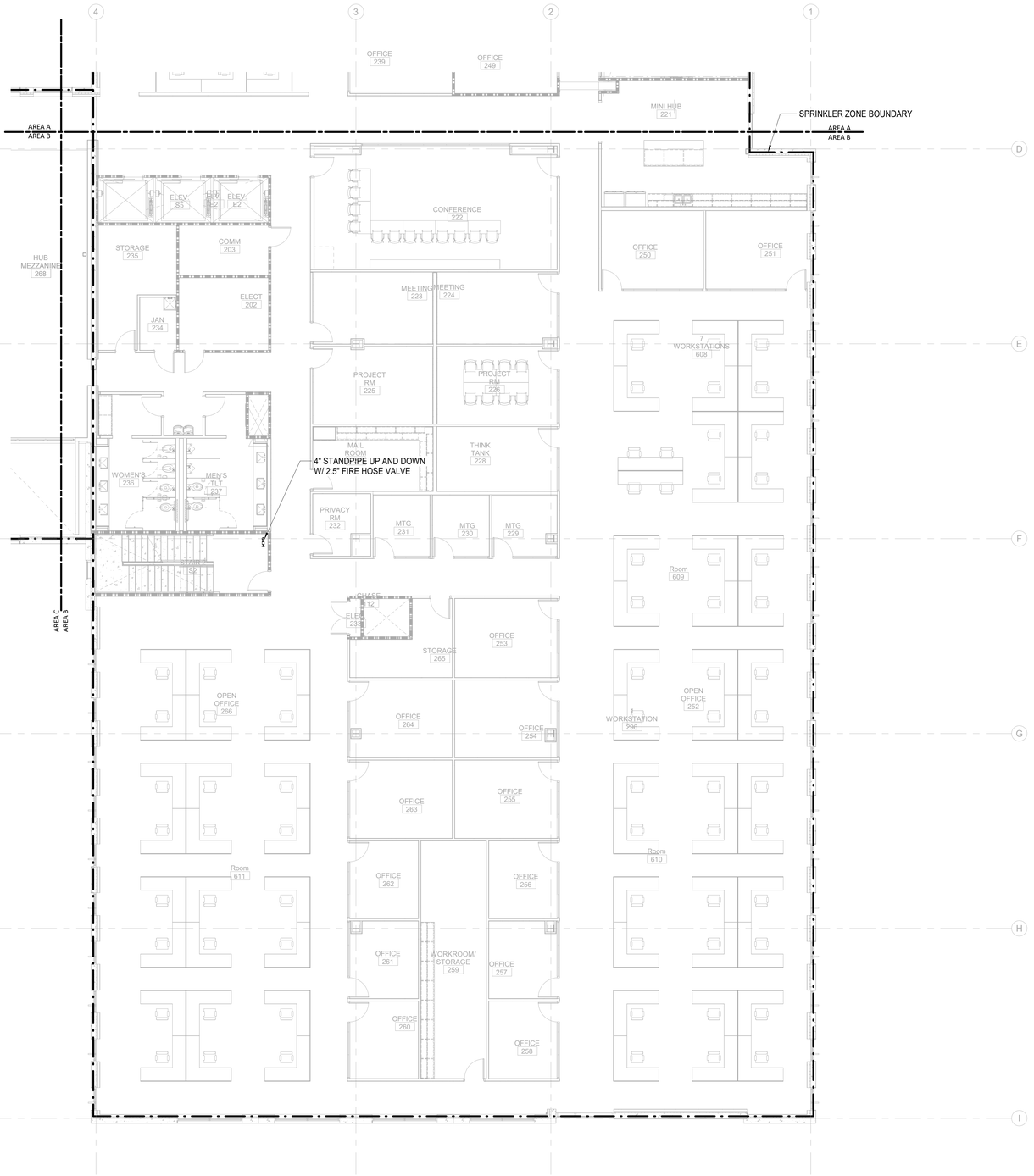


SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FP-102A

TI GMP SET



0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 FP-102B	FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B	1/8" = 1'-0"

11/19/2020 2:35:10 PM

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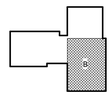
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 2 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FP-102B

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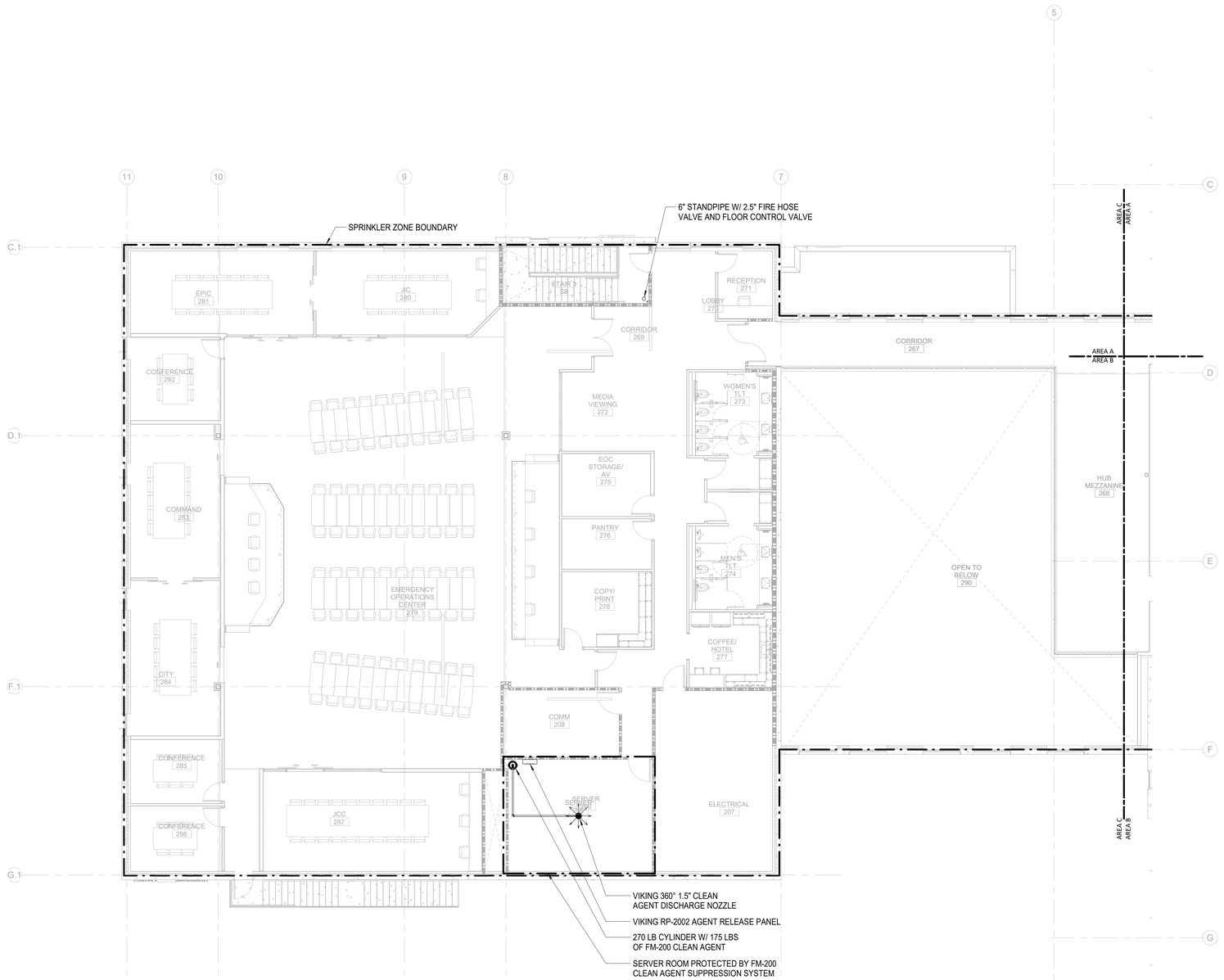

11/19/2020 2:35:15 PM

1 FP-102C **FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** 1/8" = 1'-0"

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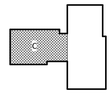

SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FP-102C

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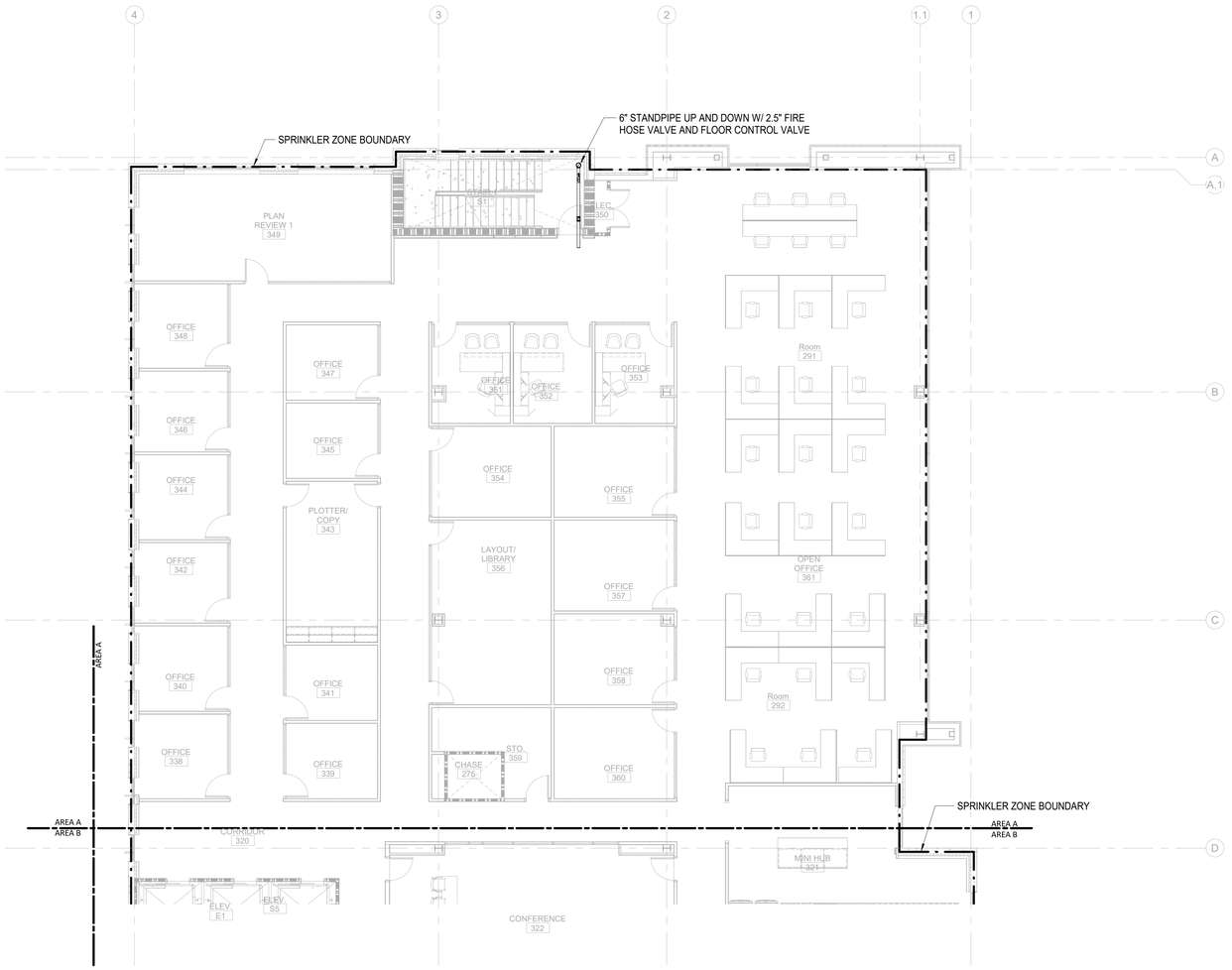

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 FP-103A **FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A** 1/8" = 1'-0"

11/19/2020 2:35:19 PM

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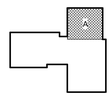
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FP-103A

TI GMP SET

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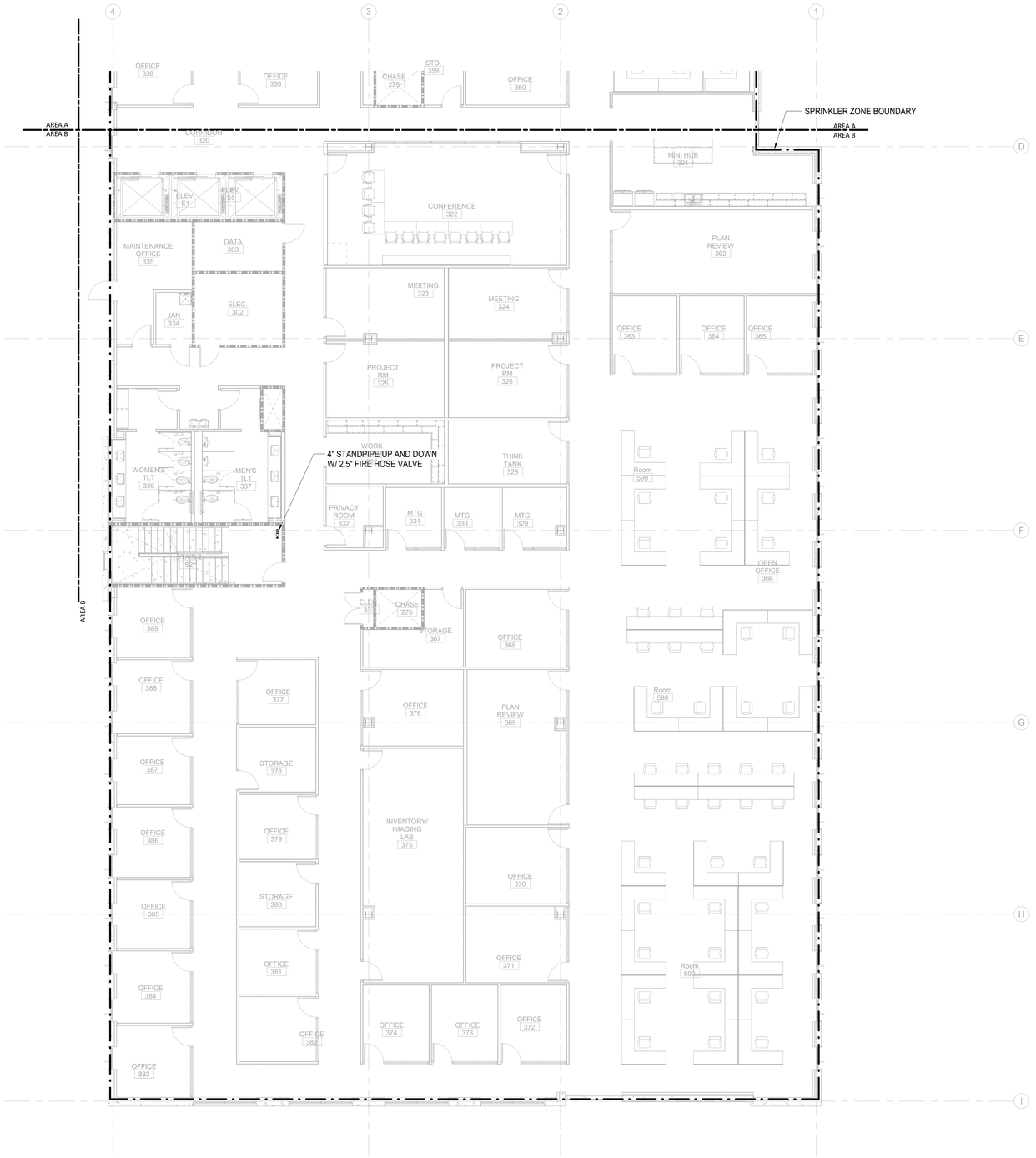

1 FP-103B **FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B** 1/8" = 1'-0"

11/19/2020 2:35:24 PM

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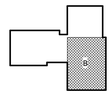
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 3 - AREA B

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
FP-103B

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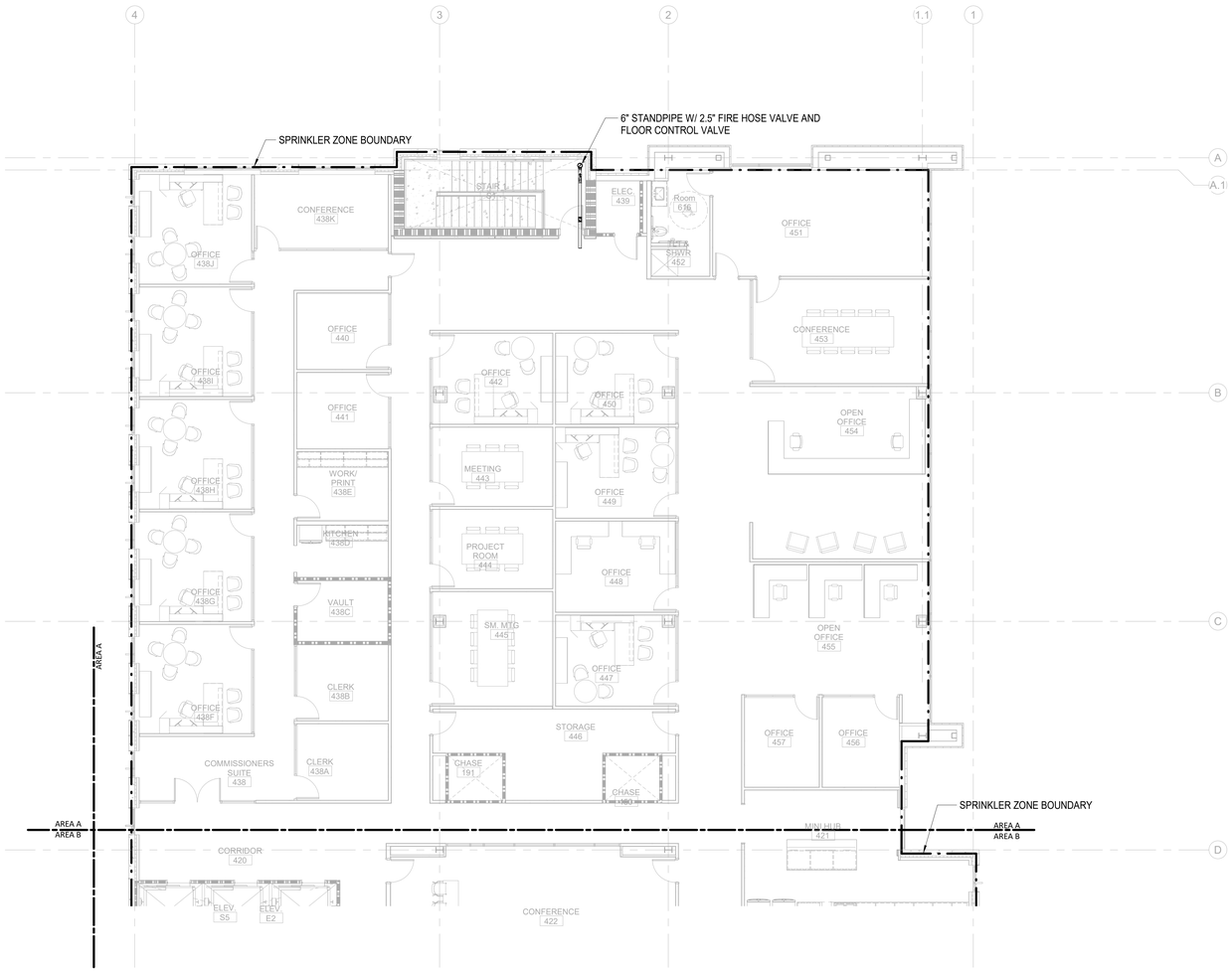

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / FP-104A	FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A	1/8" = 1'-0"

11/19/2020 2:35:28 PM

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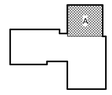
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
FP-104A

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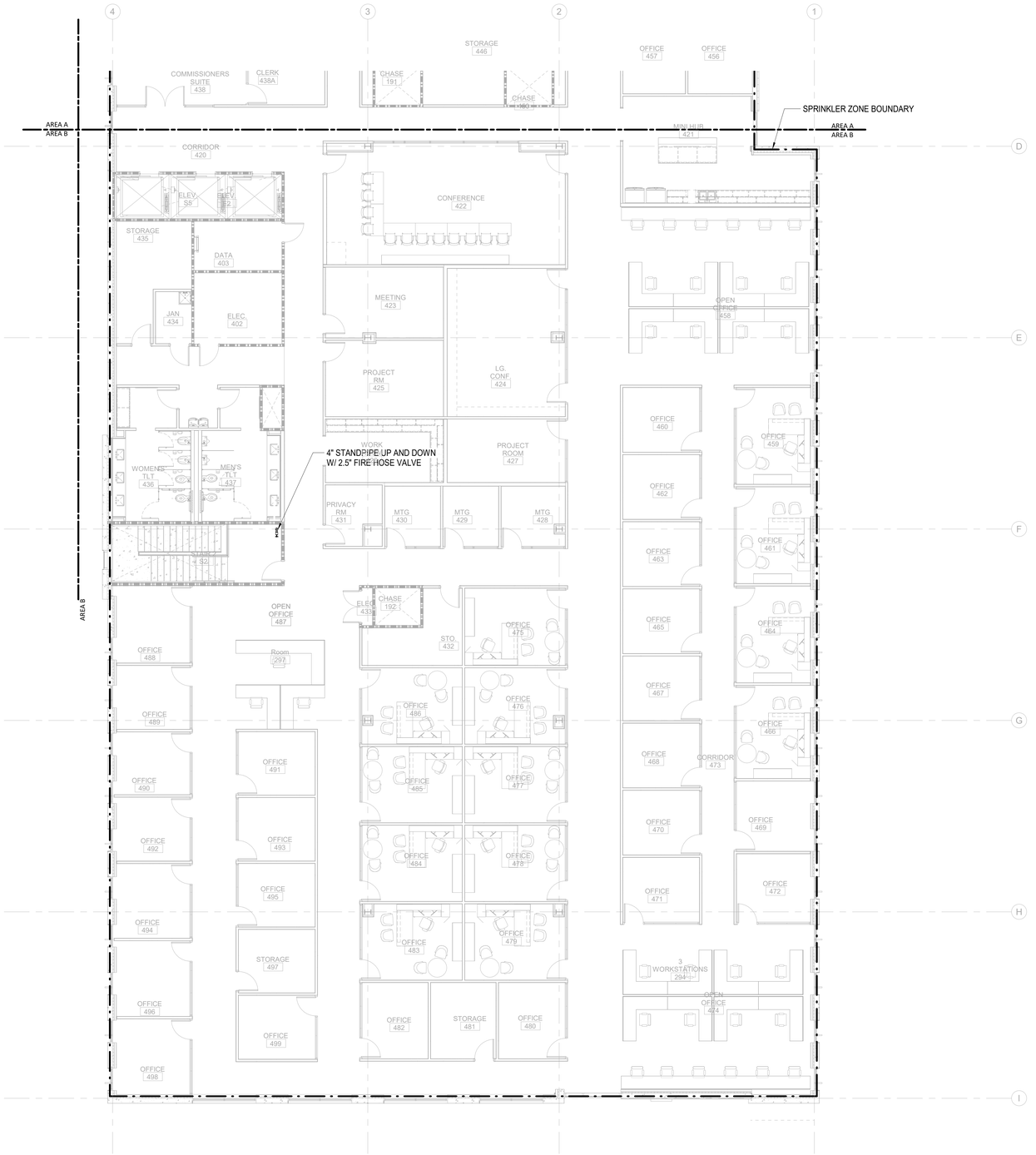

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

11/19/2020 2:35:33 PM

1 FP-104B **FIRE PROTECTION TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B** 1/8" = 1'-0"

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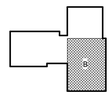
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE PROTECTION FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FP-104B

TI GMP SET

Newcomb & Boyd
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Suite 215
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T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL PLOTTING SCALE



11/19/2020 2:35:41 PM

1 FP-105 **FIRE PROTECTION ROOF - C&S** — 3/32" = 1'-0"

0 8' 16' 24'

TRUE NORTH PROJECT NORTH

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CAPE FEAR FD STONEWATER

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

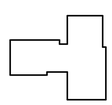
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE PROTECTION ROOF PLAN - OVERALL

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FP-105

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

DISCLAIMER

SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION DEPICTED ON THIS SHEET ARE FOR INFORMATION ONLY AND SHALL NOT CONSTITUTE A CHECKLIST FOR SCOPE INCLUDED IN THIS CONTRACT. ITEMS SHOWN ON THIS SHEET MAY NOT APPEAR AGAIN IN THE ELECTRICAL SERIES.

CIRCUITING

POWER
- 48" — INDICATES MOUNTING HEIGHT OTHER THAN STANDARD
- UP-1A:9 — INDICATES PANEL AND/OR CIRCUIT NUMBER

LIGHTING
- a,b — INDICATES SWITCHING
- 14 — INDICATES CIRCUIT NUMBER
- P — INDICATES LUMINAIRE TYPE
- (LCP#:R#) — INDICATES RELAY PANEL AND CONTACTOR NUMBER

L1B - 1:2 L1B - 1:2

DENOTES PANELBOARD FROM WHICH ALL CIRCUITS WITHIN DESIGNATED AREA SHALL BE SERVED, OR DENOTES SPECIFIC CIRCUIT FROM WHICH ALL CONNECTIONS SHALL BE MADE, UON. SEE PANELBOARD SCHEDULES FROM CIRCUITING REQUIREMENTS, THE MAXIMUM NUMBER OR BRANCH CIRCUIT PHASE CONDUCTORS INSTALLED IN SINGLE CONDUIT SHALL NOT EXCEED THREE (3), UON.

LUMINARIES

SYMBOL	DESCRIPTION
D D	LINEAR LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
F F	2' X 2' LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
S S	LINEAR WALL-MOUNTED LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
A A	CIRCULAR RECESSED OR SURFACE LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
A A	SQUARE RECESSED OR SURFACE LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
V V	WALL-MOUNTED LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
F F	STRIP LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
X X	EXIT LIGHT, CEILING, PENDANT, OR WALL-MOUNTED. DARKENED SECTIONS INDICATE FACES; ARROWS AS INDICATED. LETTER INDICATES TYPE, SEE SCHEDULE.
C C	2' X 4' LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
C	PEDESTRIAN POLE SITE LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
E	EMERGENCY BUG-EYE LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.

SPECIAL OUTLET SCHEDULE

TYPE	DESCRIPTION
A	40A, 208V, 1 PHASE, SPECIAL OUTLET FOR ELECTRIC RANGE. WALL MOUNTED AT 18" AFF UON. COORDINATE NEMA TYPE CONFIGURATION WITH ACTUAL EQUIPMENT EQUIPMENT PROVIDED.
B	30A, 208V, 4-WIRE GROUNDING OUTLET, 1 PHASE, SPECIAL OUTLET FOR STACKED CLOTHES DRYER. COORDINATE NEMA TYPE CONFIGURATION WITH ACTUAL EQUIPMENT PROVIDED.
C	NEMA L6-30R 30A, 208V, 1 PHASE, SPECIAL OUTLET FOR SERVER RACK. WALL MOUNTED AT 18" AFF UON.
D	NEMA L21-20P 20A, 208V, 3 PHASE, SPECIAL OUTLET FOR SERVER RACK. MOUNTED TO OVERHEAD POWER DISTRIBUTION BUSWAY.

ELECTRICAL EQUIPMENT

SYMBOL	DESCRIPTION
	RACEWAY CONCEALED IN FLOOR OR UNDERGROUND.
	RACEWAY CONCEALED IN CEILING CAVITY OR WALL.
	RACEWAY EXPOSED TO VIEW UNLESS OTHERWISE NOTED.
	FLEXIBLE RACEWAY.
	RACEWAY HOMERUN TO PANEL, ONE ARROWHEAD PER CIRCUIT.
	3 WIRES #12 AWG IN CABLE OR CONDUIT, EXCLUDING GROUNDING CONDUCTOR. NOTE: NUMBER OF CROSS HATCHES INDICATES NUMBER OF # 12 AWG CONDUCTORS, LESS GROUNDING CONDUCTOR. SHORT CROSS HATCH = PHASE CONDUCTOR. LONG CROSS HATCH = NEUTRAL. NO CROSS HATCHES INDICATES 2 #12 AWG EXCLUDING GROUNDING CONDUCTOR IN CABLE OR CONDUIT.
	RACEWAY TURNED UP.
	RACEWAY TURNED DOWN.
UP	UNDERGROUND PRIMARY (EXISTING DASHED).
US	UNDERGROUND SECONDARY (EXISTING DASHED).
UE	UNDERGROUND ELECTRICAL FEEDER (EXISTING DASHED).
OR	GROUNDING ELECTRODE.
EP	GROUNDING ELECTRODE BONDED TO EQUIPOTENTIAL PLANE.
	GROUND BUS.
A A	DUCT BANK SECTION.
MH	MANHOLE.
T	DRY-TYPE TRANSFORMER.
TP	TRANSFORMER, PAD-MOUNTED.
	PANELBOARD, FLUSH-MOUNTED.
	PANELBOARD, SURFACE-MOUNTED.
M	ELECTRONIC POWER METER.
2	MOTOR, NUMERAL INDICATES HP. "F" INDICATES FRACTIONAL HORSE POWER.
	MOTOR CONTROLLER. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.
	COMBINATION MOTOR CONTROLLER/DISCONNECT. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.
30/3/20/3R	DISCONNECT SWITCH, SIZE/POLES/FUSE/ENCLOSURE TYPE IF OTHER THAN NEMA 1. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.
30/3	INDIVIDUAL CIRCUIT BREAKER, TRIP/POLES. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.

LIGHTING CONTROL DEVICES

SYMBOL	DESCRIPTION	MOUNTING HEIGHT AFF, UON
S OS	SWITCH, WALL-MOUNTED, LOWERCASE LETTERING INDICATES CONTROLLED ZONE, TYPE DESIGNATED: BLANK - LOW VOLTAGE ON/OFF SWITCH M - MOTOR RATED TOGGLE SWITCH OS - OCCUPANCY SENSOR TYPE, DUAL TECHNOLOGY VS - VACANCY SENSOR TYPE, DUAL TECHNOLOGY TS - TIMER SWITCH WP - WEATHERPROOF LV - LOW-VOLTAGE OVERRIDE SWITCH PS - LOW-VOLTAGE PARTITION SWITCH	48"
D OS	DIMMER SWITCH, WALL-MOUNTED, LOWERCASE LETTERING INDICATES CONTROLLED ZONE, TYPE DESIGNATED: BLANK - SLIDER TYPE, 0-10V OS - OCCUPANCY SENSOR TYPE, DUAL TECHNOLOGY VS - VACANCY SENSOR TYPE WS - LOW VOLTAGE WALL SWITCH WITH ON/OFF BUTTON ADJACENT LOWER CASE LETTERS INDICATE LIGHTING ZONE CONTROLLED.	48"
TS	TIME SWITCH.	
PC	PHOTOCELL.	
OT/PS/VS	LIGHTING CONTROL SENSOR DEVICE, DUAL TECHNOLOGY OCCUPANCY SENSOR, PHOTOSENSOR, VACANCY SENSOR. WHERE NO LETTER IS SHOWN, SENSOR(S) SHALL CONTROL ALL LUMINAIRES IN CORRESPONDING ROOM. (D = DAMP RESISTANT, P = PENDANT-MOUNT PER MANUFACTURER'S RECOMMENDATIONS)	
	WALL-MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR. 2000 SQUARE FEET OF COVERAGE AND 180 DEGREE OF SENSING. AIM AS REQUIRED PER INDIVIDUAL ROOM REQUIREMENTS. MULTIPLE SENSORS IN A SINGLE SPACE SHALL PROVIDE PARALLEL CONTROL. LOWERCASE LETTERING INDICATES CONTROLLED ZONE.	9'-6"
A	CONTROL STATION	48"

ELECTRICAL DEVICES

SYMBOL	DESCRIPTION	MOUNTING HEIGHT AFF, UON
	DUPLEX RECEPTACLE. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER. TYPE DESIGNATED: BLANK - DUPLEX RECEPTACLE USB - USB DUPLEX RECEPTACLE WITH TWO USB PORTS. TV - RECEPTACLE FOR TV MONITOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL AND AV DRAWINGS. MW - RECEPTACLE FOR MICROWAVE. DS - RECEPTACLE FOR DIGITAL SIGNAGE DISPLAY. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL AND AV DRAWINGS.	18"
	DOUBLE DUPLEX RECEPTACLE OUTLET. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	18"
	DUPLEX RECEPTACLE, ABOVE COUNTER. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	
	GFCI DUPLEX RECEPTACLE. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER. 'WP' - WEATHER PROOF GFCI RECEPTACLE WITH COVERPLATE	18"
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	18"
	GFCI DUPLEX RECEPTACLE, ABOVE COUNTER. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	
	SPECIAL CONNECTION OUTLET, TYPE AS NOTED. REFER TO SPECIAL CONNECTION SCHEDULE, THIS SHEET. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	
J	JUNCTION BOX, WALL-MOUNTED. TYPE DESIGNATED: F - JUNCTION BOX FOR POWER CONNECTION TO PRE-WIRED FURNITURE SYSTEM. COORDINATE EXACT REQUIREMENTS WITH THE PARTICULAR SUPPLIER, AND MAKE THE FINAL CONNECTIONS.	
J	JUNCTION BOX, FLOOR.	
J	JUNCTION BOX, ABOVE CEILING. TYPE DESIGNATED: PS - JUNCTION BOX FOR CONNECTION TO PROJECTION SCREEN. COORDINATE CONNECTION REQUIREMENTS WITH SELECTED EQUIPMENT. ADO - AUTOMATIC DOOR OPERATOR. COORDINATE EXACT REQUIREMENTS WITH THE PARTICULAR SUPPLIER, AND MAKE THE FINAL CONNECTIONS.	
	DUPLEX RECEPTACLE, CEILING-MOUNTED. TYPE DESIGNATED: PJ - OUTLET FOR CONNECTION TO PROJECTOR. COORDINATE EXACT LOCATION WITH ARCHITECTURAL AND AV DRAWINGS.	
A FB	FLOOR BOX. TYPE DESIGNATED: A - POWER ONLY FLOOR BOX WITH (2) 20A DUPLEX OUTLETS WITHIN THE BOX. WIREMOLD RFB2S-FC OR APPROVED EQUAL. COORDINATE COVER WITH ARCHITECT. B - POWER/TELECOM FLOOR BOX WITH FLEXIBLE CONDUIT CONNECTION TO FURNITURE SYSTEM. WIREMOLD EVOLUTION WITH FURNITURE FEED OR APPROVED EQUAL. COORDINATE COVER WITH ARCHITECT. C - A/V FLOOR BOX. FSR500 OR EQUIVALENT. PROVIDE (2) 20A DUPLEX OUTLETS WITHIN THE BOX. REFER TO ELECTRONIC SYSTEM DRAWINGS FOR TYPE AND QUANTITIES OF DATA AND A/V DEVICES WITHIN THE BOX. COORDINATE COVER WITH ARCHITECT.	
A PT	POKE-TROUGH. TYPE DESIGNATED: A - POWER/TELECOM POKE THROUGH WITH FLEXIBLE CONDUIT CONNECTION TO FURNITURE SYSTEM. WIREMOLD EVOLUTION WITH FURNITURE FEED OR APPROVED EQUAL. COORDINATE COVER WITH ARCHITECT. B - A/V POKE THROUGH. PROVIDE (2) 20A DUPLEX OUTLETS WITHIN THE BOX. WIREMOLD EVOLUTION 8AT OR APPROVED EQUAL. REFER TO ELECTRONIC SYSTEM DRAWINGS FOR TYPE AND QUANTITIES OF DATA AND A/V DEVICES WITHIN THE BOX. C - POWER ONLY POKE THROUGH WITH (2) 20A DUPLEX OUTLETS WITHIN THE BOX. WIREMOLD EVOLUTION 4AT POKE THROUGH OR APPROVED EQUAL. COORDINATE COVER WITH ARCHITECT. D - POWER/TELECOM POKE THROUGH. PROVIDE (2) 20A DUPLEX OUTLETS WITHIN THE BOX. WIREMOLD EVOLUTION 6AT OR APPROVED EQUAL. REFER TO ELECTRONIC SYSTEM DRAWINGS FOR TYPE AND QUANTITIES OF DATA AND A/V DEVICES WITHIN THE BOX.	
EPO	EMERGENCY POWER OFF SWITCH WITH CLEAR PLASTIC COVER. MOUNT AT 66" UON.	

ABBREVIATIONS

AFF/AFG/ARF	ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR
ABV	ABOVE
AC	ALTERNATING CURRENT
ARCH	ARCHITECT/ARCHITECTURAL
A/V	AUDIO/VISUAL
AVC	AUDIO/VISUAL CREDENZA
BEL	BELOW
BF	BELOW FLOOR
BFC	BELOW FINISHED CEILING
BM	BEAM
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
COL	COLUMN
CONN	CONNECT/CONNECTION
CONT	CONTINUATION/CONTINUOUS
CTE	CONNECT TO EXISTING
DC	DIRECT CURRENT
DN	DOWN
EC	EMPTY CONDUIT
EO	ELECTRICALLY OPERATED
EI	ELECTRICALLY INTERLOCKED
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EX	EXISTING
ETR	EXISTING TO REMAIN
EXP	EXPOSED
GRC	RIGID METAL CONDUIT
F	FUSED
FA	FIRE ALARM
LCM	LIGHTING CONTROL MODULE
LMNR	LUMINAIRE
FL	FLOOR
G	GROUND
GFP	GROUND FAULT PROTECTION
GR	GRADE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INV	INVERTER
JB	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MILLS
MC	METAL-CLAD CABLE
MCC	MOTOR CONTROL CENTER
NC	NORMALLY CLOSED
NL	NIGHT LIGHT
NF	NONFUSIBLE
NO	NORMALLY OPEN
OC	ON CENTER
OCP	OVERCURRENT PROTECTION
PC	PHOTOCELL
PH OR Ø	PHASE
PL	PILOT LIGHT
PNL	PANEL
PV	PHOTO-VOLTAIC
RC	REMOTE CONTROL
REC	RECEPTACLE
REL	RELOCATE
REM	REMOVE
RS	RAPID START
SC	SPLIT CIRCUIT
SPEC	SPECIFICATION
SPDT	SINGLE-POLE DOUBLE-THROW
ST	SHUNT STRIP
SW	SWITCH
TELE	TELEPHONE
TS	TIGHT TO STRUCTURE
UG	UNDERGROUND
WP	WEATHER PROOF
XFMR	TRANSFORMER
UON	UNLESS OTHERWISE NOTED

NEW HANOVER COUNTY • NORTH CAROLINA • ESTABLISHED 1729

CAPE FEAR FD STONEWATER

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-1908110

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL LEGEND

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-001

TI GMP SET

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11/19/2020 4:12:27 PM

4
E-001
E - LEGEND

1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL	SOURCE INFORMATION			ELECTRICAL INFORMATION		MOUNTING	DESCRIPTION
			MIN CRI	LUMEN OUTPUT	COLOR TEMP (K)	VOLTAGE	LOAD (W)		
A1	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 24	80	5000 LM	3500K	UNV	47W	RECESSED	2' X 4' RECESSED LED FIXTURE, INTEGRAL 0-10V DIMMING DRIVER, DIMMING TO 10%.
A1E	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 24	80	5000 LM	3500K	UNV	47W	RECESSED	SAME AS TYPE A1, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
A2	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 24	80	4400 LM	3500K	UNV	38W	RECESSED	SAME AS TYPE A1, EXCEPT WITH LOWER LUMEN OUTPUT AND WATTAGE
A2E	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 24	80	4400 LM	3500K	UNV	38W	RECESSED	SAME AS TYPE A2, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
B1	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 22	80	4000LM	3500K	UNV	38W	RECESSED	2' X 2' RECESSED LED FIXTURE, INTEGRAL 0-10V DIMMING DRIVER, DIMMING TO 10%.
B1E	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 22	80	4000LM	3500K	UNV	38W	RECESSED	SAME AS TYPE B1, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
C1	AXIS LIGHTING (OR APPROVED EQUAL)	BEAM4	80	1000LM/FT	3500K	UNV	10W/FT	RECESSED	4" WIDE RECESSED CONTINUOUS LED SLOT, FLUSH SHIELDING, WHITE FINISH, INTEGRAL 0-10V DIMMING DRIVERS, DIMMING TO 10%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS.
C1E	AXIS LIGHTING (OR APPROVED EQUAL)	BEAM4	80	1000LM/FT	3500K	UNV	10W/FT	RECESSED	SAME AS TYPE C1, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
C2	AXIS LIGHTING (OR APPROVED EQUAL)	BEAM4	80	750LM/FT	3500K	UNV	7W/FT	RECESSED	SAME AS TYPE C1, EXCEPT WITH LOWER LUMEN OUTPUT AND WATTAGE
C2E	AXIS LIGHTING (OR APPROVED EQUAL)	BEAM4	80	750LM/FT	3500K	UNV	7W/FT	RECESSED	SAME AS TYPE C2, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
EM1	LITHONIA (OR APPROVED EQUAL)	ELM4L	N/A	640LM	5000K	UNV	3W	UNIVERSAL MOUNTED	UNIVERSAL MOUNTED EMERGENCY FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK UP, WITH TWO LED LAMP HEADS, AND SELF TESTING.
EM2	EVENLITE (OR APPROVED EQUAL)	APERION LED	N/A	550LM	6500K	UNV	3W	RECESSED	4" SQUARE RECESSED CONCEALED LED EMERGENCY FIXTURE, AUTOMATIC RETRACTABILITY, SELF DIAGNOSTICS, WITH 90 MINUTES INTEGRAL BATTERY BACK UP.
F1	FINELITE (OR APPROVED EQUAL)	HP-6	80	1560LM/FT	3500K	UNV	14W/FT	RECESSED	6 1/2" WIDE RECESSED CONTINUOUS LED SLOT, FLUSH SHIELDING, WHITE FINISH, INTEGRAL 0-10V DIMMING DRIVERS, DIMMING TO 10%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS. FINISH BY ARCHITECT.
G1	ALW (OR APPROVED EQUAL)	RLP2C	80	750LM	3500K	UNV	9.7W	WALL MOUNTED	WALL MOUNTED LED VANITY FIXTURE, INTEGRAL DRIVER.
H1	LITHONIA (OR APPROVED EQUAL)	WL4	80	4000LM	3500K	UNV	40W	WALL MOUNTED	4' LONG WALL MOUNTED LED FIXTURE, INTEGRAL 0-10V DIMMING DRIVER, DIMMING TO 10%, INTEGRAL BATTERY PACK.
J1	TBD	TBD	80	TBD	2700K	UNV	TBD	SUSPENDED	12" ROUND SUSPENDED DECORATIVE LED FIXTURE WITH DIRECT/INDIRECT DISTRIBUTION COORDINATE FIXTURE SUSPENSION HEIGHT WITH ARCH.
J2	TBD	TBD	80	TBD	2700K	UNV	TBD	SUSPENDED	SAME AS TYPE J1, EXCEPT 18" ROUND FIXTURE WITH HIGHER LUMEN OUTPUT AND WATTAGE
K1	PRUDENTIAL (OR APPROVED EQUAL)	BIO-PSTD	80	575LM/FT	3500K	UNV	7W/FT	RECESSED	4" WIDE RECESSED CONTINUOUS LED PERIMETER COVE FIXTURE, 3" REGRESS LENS, SATIN ACRYLIC LENS, DIRECT DISTRIBUTION, WALL-TO-WALL MOUNTING, INTEGRAL 0-10V DIMMING DRIVERS, DIMMING TO 1%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS.
L1	CALILIGHTING (OR APPROVED EQUAL)	ALS210T	80	285LM/FT	3500K	UNV	3W/FT	SURFACE	2" WIDE SURFACE MOUNTED CONTINUOUS LED COVE FIXTURE, CURVED SHIELDING, FROSTED LENS, WHITE FINISH, ADJUSTABLE MOUNTING CLIP, INTEGRAL 0-10V DIMMING DRIVERS, DIMMING TO 10%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS.
M1	GOTHAM (OR APPROVED EQUAL)	EVO4SQ	80	1500LM	3500K	UNV	14W	RECESSED	4" SQUARE RECEESED LED DOWNLIGHT, MEDIUM WIDE DISTRIBUTION, CLEAR REFLECTOR, SEMI-SPECULAR FINISH, INTEGRAL 0-10V DIMMING DRIVER, DIMMING TO 10%.
M1E	GOTHAM (OR APPROVED EQUAL)	EVO4SQ	80	1500LM	3500K	UNV	14W	RECESSED	SAME AS TYPE M1, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
M3	GOTHAM (OR APPROVED EQUAL)	EVO4SQSH	80	750LM	3500K	UNV	8W	RECESSED	4" SQUARE RECESSED LED SHOWER DOWNLIGHT, MEDIUM WIDE DISTRIBUTION, FLUSH LENSED TRIM WITH WHITE FLANGE, SMOOTH CLEAR LENS, INTEGRAL 0-10V DIMMING DRIVER.
N1	GOTHAM (OR APPROVED EQUAL)	EVO4	80	2000LM	4000K	UNV	19W	RECESSED	4" ROUND RECESSED LED CANOPY DOWNLIGHT, CLEAR SHOWER LENS, INTEGRAL 0-10V DIMMING DRIVER. FINISH BY ARCHITECT.
P1	LEDALITE (OR APPROVED EQUAL)	BOLDPLAY	80	9200LM	3500K	UNV	78W	SUSPENDED 18" BELOW THE CEILING	8' L X 10" W SUSPENDED INDIRECT/DIRECT LED FIXTURE, 20/80 UP/DOWN DISTRIBUTION, INTEGRAL 0-10V DIMMING DRIVER. DIMMING TO 10%. FINISH BY ARCHITECT.
P2	LEDALITE (OR APPROVED EQUAL)	BOLDPLAY	80	6800LM	3500K	UNV	57W	SUSPENDED 18" BELOW THE CEILING	SAME AS TYPE P1, EXCEPT WITH LOWER LUMEN OUTPUT AND WATTAGE.
P2E	LEDALITE (OR APPROVED EQUAL)	BOLDPLAY	80	6800LM	3500K	UNV	57W	SUSPENDED 18" BELOW THE CEILING	SAME AS TYPE P2, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
P3	LEDALITE (OR APPROVED EQUAL)	BOLDPLAY	80	4600LM	3500K	UNV	39W	SUSPENDED 18" BELOW THE CEILING	SAME AS TYPE P1, EXCEPT 4' LONG AND LOWER LUMEN OUTPUT AND WATTAGE.
S1	LITHONIA (OR APPROVED EQUAL)	ZL1D	80	5000LM	3500K	UNV	41W	SUSPENDED	4' LONG SUSPENDED LED STRIP LIGHT FIXTURE, DROP LENS, HANGER CHAIN ACCESSORY.
S2	LITHONIA (OR APPROVED EQUAL)	ZL1D	80	6000LM	3500K	UNV	60W	SUSPENDED	SAME AS TYPE S1, EXCEPT 8' LONG AND HIGHER LUMEN OUTPUT AND WATTAGE.
T1	ILIGHT TECHNOLOGIES (OR APPROVED EQUAL)	PLEXINEON COLOR SERIES	N/A	N/A	N/A	24V/277V	1.97W/FT	RECESSED IN COVE	0.5" W X 1.5" H RECESSED LED FLEXIBLE ROPE LIGHT, BLUE COLOR, SILVER HOUSING, REMOTE ELECTRONIC POWER SUPPLY. PROVIDE CUSTOM FIXTURE LENGTH PER LIGHTING PLANS. PROVIDE ALL NECESSARY ACCESSORIES FOR COMPLETE FIXTURE INSTALLATION.
U1	VODE (OR APPROVED EQUAL)	ZIPONE 707	80	400LM/FT	3500K	UNV	4.1W/FT	SURFACE	1.5" W X 0.5" D SURFACE MOUNTED LED UNDERCABINET FIXTURE, ASYMMETRIC OPTICS, REMOTE ELECTRONIC POWER SUPPLY AND 0-10V DIMMING DRIVER, DIMMING TO 10%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS.
V1	LITHONIA (OR APPROVED EQUAL)	FEM LED	80	4000LM	3500K	UNV	24W	WALL MOUNTED	4' LONG WALL MOUNTED VAPOR-TIGHT LED FIXTURE, POLYCARBONATE LOW PROFILE FROSTED LENS, MEDIUM DISTRIBUTION, INTEGRAL 0-10V DRIVER.
W1	BEGA (OR APPROVED EQUAL)	24371	80	806LM	4000K	UNV	15W	WALL MOUNTED	4.7" W X 5.1" W X 5.5" H SQUARE WALL MOUNTED EXTERIOR LED WALL FIXTURE, WITH DIRECT/INDIRECT DISTRIBUTION, INTEGRAL 0-10V DIMMING DRIVER AND DIE-CAST ALUMINUM HOUSING. FINISH BY ARCHITECT.
W2	LITHONIA (OR APPROVED EQUAL)	WST LED	70	3000LM	4000K	UNV	25W	WALL MOUNTED	17" W X 11" D X 9" H SURFACE MOUNTED EXTERIOR WALL SCONCE, VISUAL COMFORT FORWARD THROW OPTICS, INTEGRAL 0-10V DIMMING DRIVER AND DIE-CAST ALUMINUM HOUSING. FINISH BY ARCHITECT.
X1	LITHONIA (OR APPROVED EQUAL)	EDG	N/A	N/A	N/A	UNV	3W	UNIVERSAL MOUNTED	EDGE LIT LED EXIT SIGN, GREEN LETTERS, SELF DIAGNOSTICS WITH INTEGRAL BATTERY PACK. NUMBER OF FACES, TYPE OF MOUNTING AND DIRECTIONAL ARROWS INDICATED ON LIGHTING PLANS.
X2	LITHONIA (OR APPROVED EQUAL)	WLTE	N/A	N/A	N/A	UNV	3W	UNIVERSAL MOUNTED	WET LOCATION LED EXIT SIGN, GREEN LETTERS, SELF DIAGNOSTICS WITH INTEGRAL BATTERY PACK. NUMBER OF FACES, TYPE OF MOUNTING AND DIRECTIONAL ARROWS INDICATED ON LIGHTING PLANS.

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

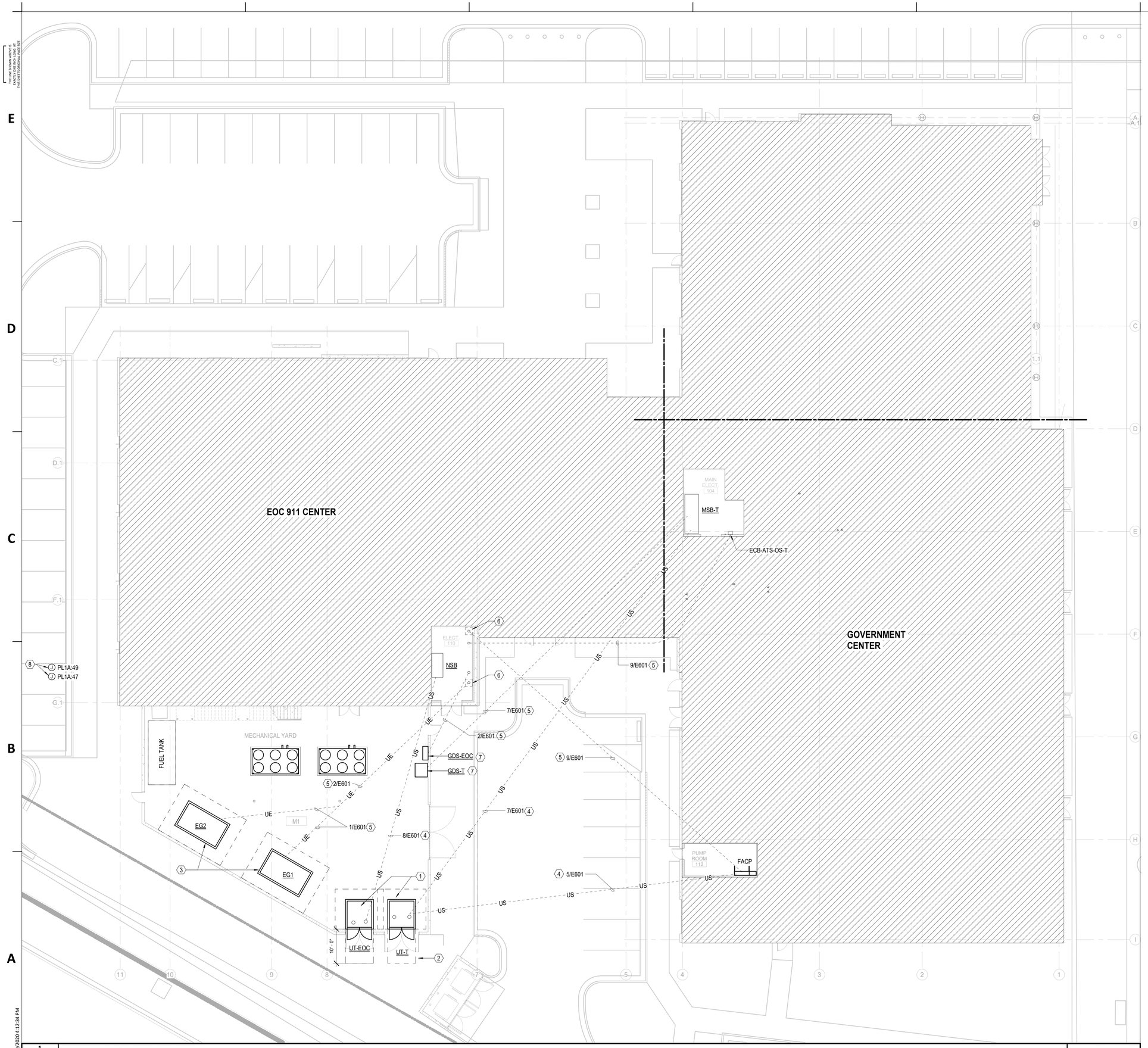
SHEET NAME:
ELECTRICAL
LUMINAIRE SCHEDULE

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
E-002

TI GMP SET

11/19/2020 4:12:31 PM



GENERAL NOTES:

1. REFER TO CIVIL PLANS FOR LOCATIONS OF OTHER UTILITIES. FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW DUCTS. OFFSET DUCTS TO AVOID CONFLICTS WITH EXISTING UNDERGROUND OBSTRUCTIONS. DUCTS SHALL CLEAR STEAM LINES AND COMMUNICATION LINES 4' 00" WHERE PARALLEL AND 18" WHERE CROSSING PERPENDICULAR. CLEAR ALL OTHER UTILITIES BY 1' 00".
2. ALL UNDERGROUND DUCTS SHALL BE CONCRETE ENCASED, UNLESS OTHERWISE NOTED.

KEY NOTES:

(1) PAD MOUNTED UTILITY TRANSFORMER PROVIDED BY UTILITY COMPANY.

(2) UTILITY TRANSFORMER WORKING CLEARANCE OUTLINE. PROVIDE MIN OF 10 FT CLEAR IN FRONT OF TRANSFORMER AND 3 FT MINIMUM ON ALL SIDES PER UTILITY REQUIREMENTS.

(3) NEW DIESEL GENERATOR SET IN WEATHERPROOF ENCLOSURE. PROVIDE CONCRETE PAD FOR GENERATOR INSTALLATION AND A MINIMUM OF 4FT WORKING CLEARANCE AROUND GENERATOR.

(4) NORMAL POWER SECONDARY CONCRETE ENCASED DUCTBANK. REFER TO SITE DETAILS SHEET FOR DUCTBANK DETAIL.

(5) EMERGENCY POWER CONCRETE ENCASED DUCTBANK. REFER TO SITE DETAILS SHEET FOR DUCTBANK DETAIL.

(6) STUB UP UNDERGROUND FEEDERS AND ROUTE VERTICALLY IN A CONCRETE ENCASED CHASE TO THE SECOND FLOOR EMERGENCY ELECTRICAL ROOM.

(7) TEMPORARY GENERATOR CONNECTION BOXES, SEE RISER DIAGRAM FOR DETAILS.

(8) FOR CONNECTION TO BACK FLOW PREVENTER HOT BOX LOCATED 90 FT AWAY FROM EOC BUILDING. SEE CIVIL PLANS FOR EXACT LOCATION.

PRICING NOTES:

PROVIDE BUDGET ALLOWANCE FOR LABOR AND MATERIALS FOR INSTALLATION OF THE FOLLOWING SITE LIGHTING FIXTURES:

1. LIGHTED BOLLARDS ALONG THE WEST SIDE OF THE PARK (EAST SIDE OF THE BUILDING). ASSUME 15' OC SPACING.
2. LIGHTED BOLLARDS FROM PARKING LOT TO EMPLOYEE ENTRANCE (NORTH VESTIBULE AT HUB). ASSUME 15' OC SPACING.
3. LIGHTED BOLLARDS AT REAR/SERVICE SIDE OF BUILDING (SOUTH SIDE OF HUB). ASSUME 12' OC SPACING.
4. LANDSCAPE LIGHTING IN PLANTER AREAS AROUND THE BUILDING.

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

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N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
ELECTRICAL POWER SITE PLAN

DATE:
CURRENT: 2020.11.20
TI GMP SET

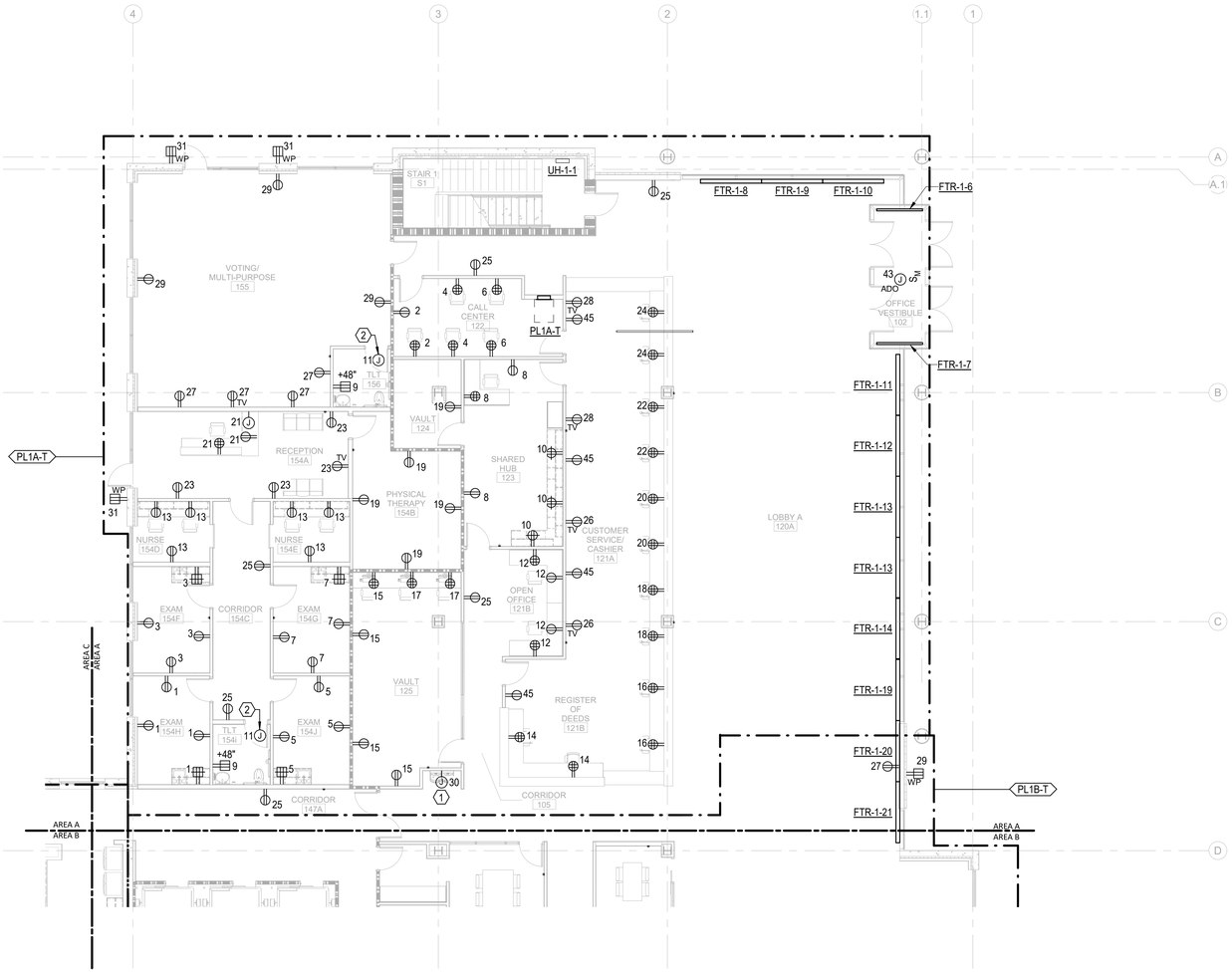
SHEET:
E-100

TI GMP SET

11/19/2020 4:12:34 PM

1 / E-100 **ELECTRICAL POWER SITE PLAN** — 3/32" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.
5. PROVIDE TAMPER-RESISTANT OUTLET TYPES IN BUSINESS OFFICES, CORRIDORS, WAITING ROOMS AND SIMILAR TYPE AREAS WITHIN MEDICAL OFFICE AREAS OF THE BUILDING PER NEC 406.12.

KEY NOTES:

(1) JUNCTION BOX FOR CONNECTION TO WATER COOLER/FOUNTAINS, PROVIDE DEDICATED GFCI 20A, 120V CIRCUIT.

(2) JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWER DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1/8" = 1'-0"

1 / E-101A — ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A

11/19/2020 4:12:39 PM

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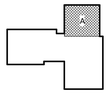
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-101A

TI GMP SET

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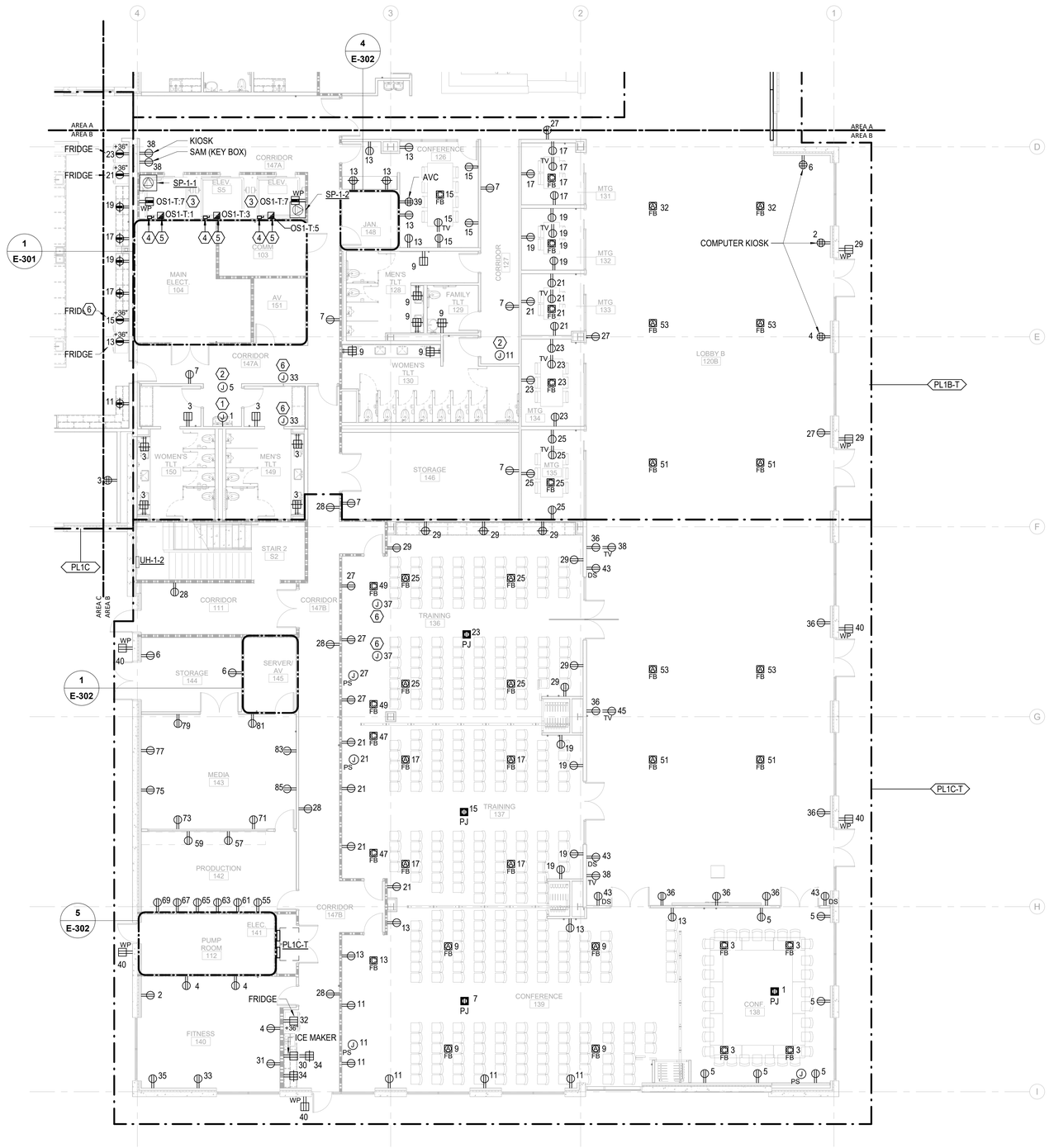

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

1. JUNCTION BOX FOR CONNECTION TO WATER COOLER/FOUNTAINS, PROVIDE DEDICATED GFCI 20A, 120V CIRCUIT.
2. JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
3. RECEPTACLE IN ELEVATOR PIT. INSTALL 24" AFG.
4. PROVIDE 480V, 30A FUSED DISCONNECT (25A FUSES) FOR ELEVATOR CONTROLLER. FINAL CONNECTIONS ARE BY ELEVATOR INSTALLER.
5. PROVIDE 20A/1PH ENCLOSED CKT FOR ELEVATOR CAB LIGHTING AND POWER. FINAL CONNECTIONS ARE BY ELEVATOR INSTALLER.
6. JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 E-101B	ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B	1/8" = 1'-0"

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NEW HANOVER COUNTY GOVERNMENT CENTER

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WILMINGTON, NC 28403

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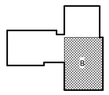
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-101B

TI GMP SET

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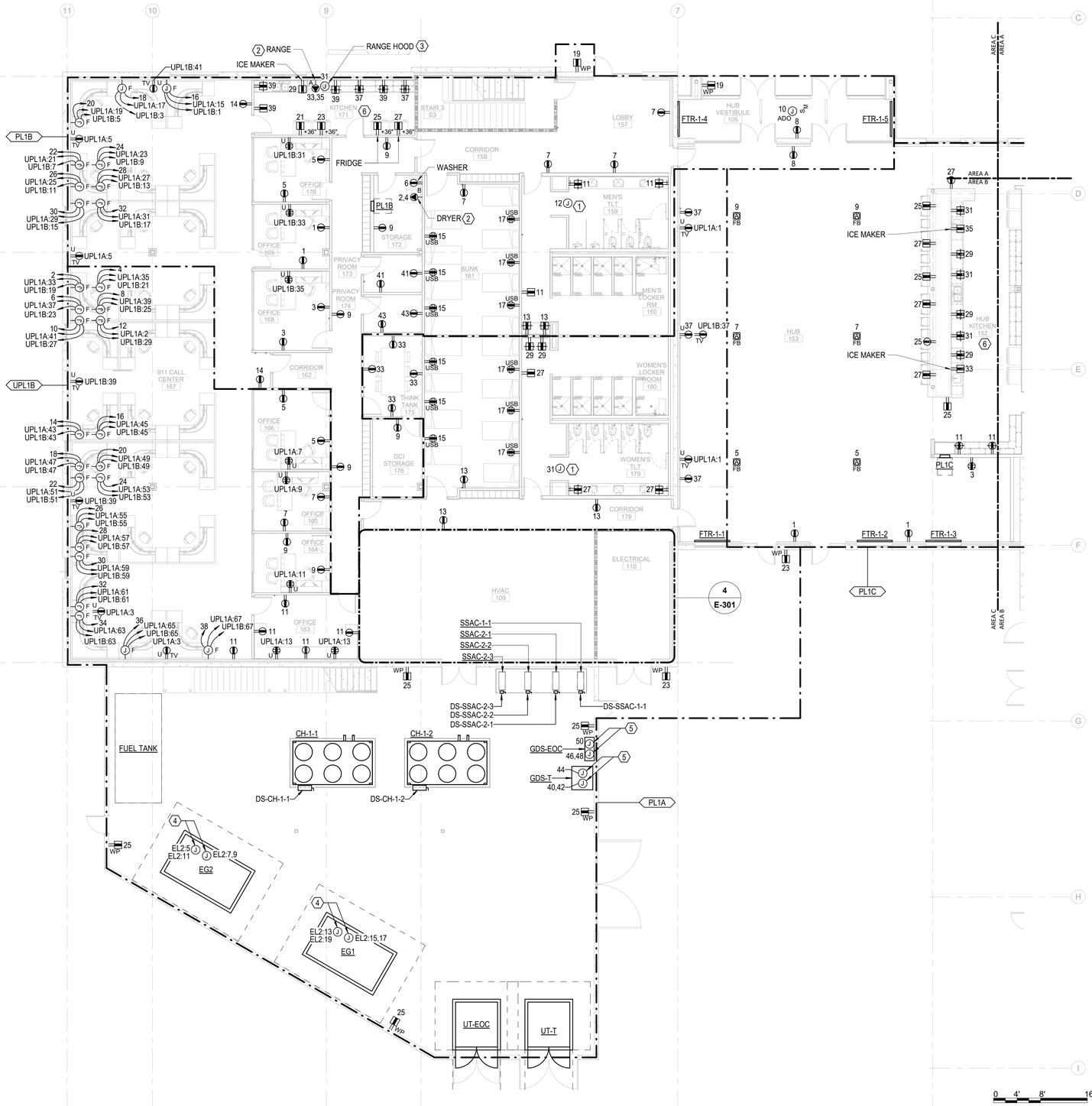

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

1. JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONFIRM NEMA RECEPTACLE TYPE CONFIGURATION WITH ACTUAL EQUIPMENT PROVIDED.
3. COORDINATE CONNECTION REQUIREMENTS WITH ACTUAL EQUIPMENT INSTALLED.
4. FOR CONNECTION TO GENERATOR BATTERY CHARGER, JACKET WATER HEATER, LTG AND RECEPTACLE LOADS.
5. FOR CONNECTION TO GENERATOR DOCKING STATION BATTERY CHARGER RECEPTACLE AND CONNECTION TO DOCKING STATION 50A TWIST-LOCK RECEPTACLE.
6. WHERE GFCI OUTLET LOCATIONS ARE NOT ACCESSIBLE, PROVIDE BLANK FACE SELF-TEST GFCI OUTLET IN ACCESSIBLE LOCATION, EQUIVALENT TO LEVITON GFRBF SERIES.

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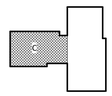
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-101C

TI GMP SET

Newcomb & Boyd
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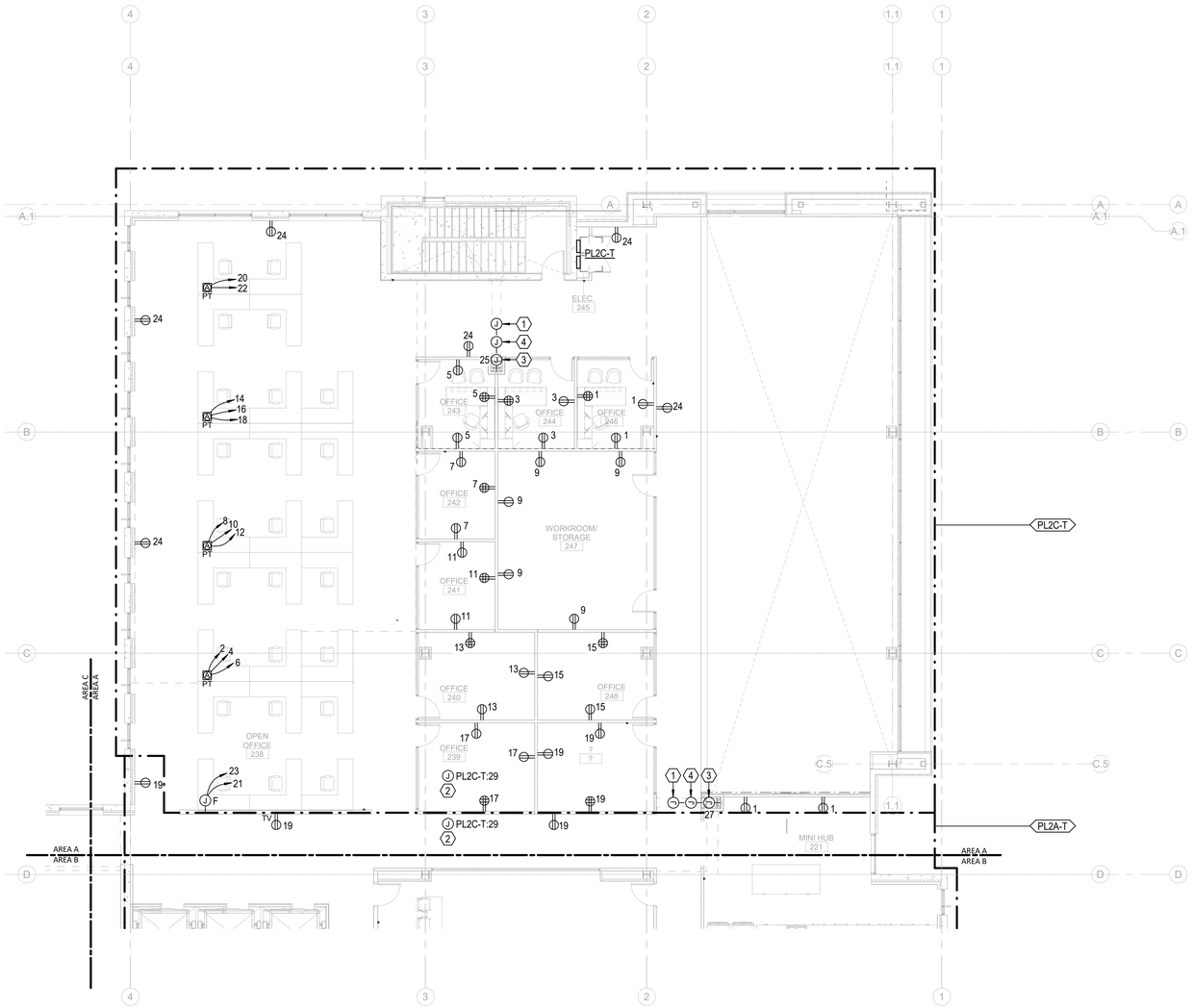
N&B PROJECT: 19N342
Firm License No. F-0312

1 E-101C **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** 1/8" = 1'-0"

11/19/2020 4:12:53 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

(1) PROVIDE RECESS MOUNTED JUNCTION BOX FOR FIRE PARTITION KEY SWITCH AND OPTICAL OBSTRUCTION SENSOR (PROVIDED BY OTHERS). INSTALL KEY SWITCH JUNCTION BOX AT A MAXIMUM OF 5'-6" AFF, AND WITHIN LINE-OF-SIGHT OF PARTITION. PROVIDE AND INSTALL 3/4" CONDUIT AND WIRING PER THE MANUFACTURER'S REQUIREMENTS.

(2) JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

(3) FOR CONNECTION TO SLIDING FIRE PARTITION. INSTALL JUNCTION BOX AT 4'-6" AFF.

(4) PROVIDE RECESS MOUNTED JUNCTION BOX FOR FIRE PARTITION RELAY/ALARM MODULE. INSTALL JUNCTION BOX AT 5'-0" AFF. PROVIDE AND INSTALL 3/4" CONDUIT AND WIRING PER THE MANUFACTURER'S REQUIREMENTS. COORDINATE WITH FIRE ALARM DRAWINGS.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-102A **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A** 1/8" = 1'-0"

11/19/2020 4:12:57 PM

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:

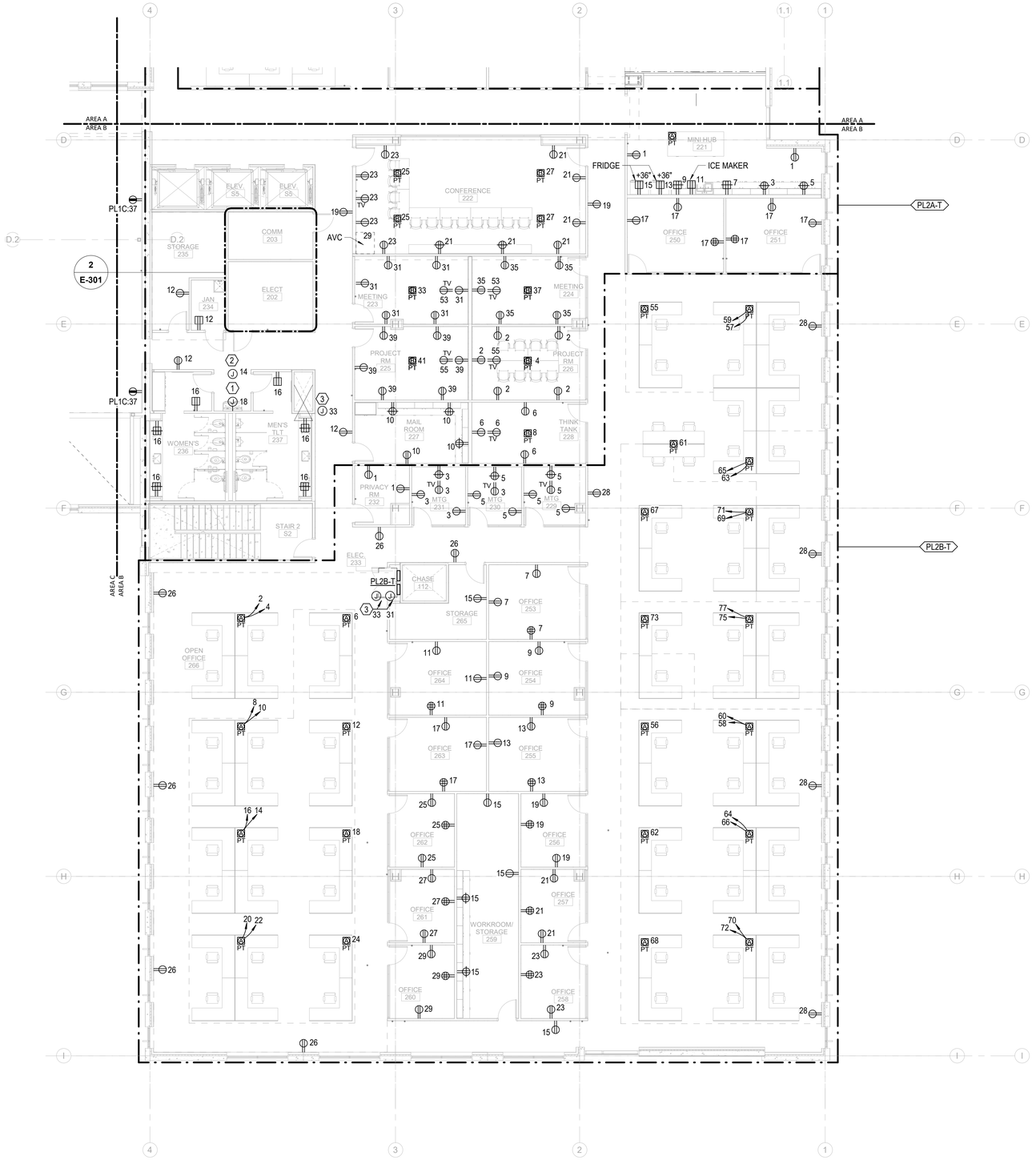
SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-102A

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLOTTED



0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

(1) JUNCTION BOX FOR CONNECTION TO WATER COOLER/FOUNTAINS, PROVIDE DEDICATED GFCI 20A, 120V CIRCUIT.

(2) JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

(3) JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

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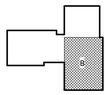
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 2 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-102B

TI GMP SET

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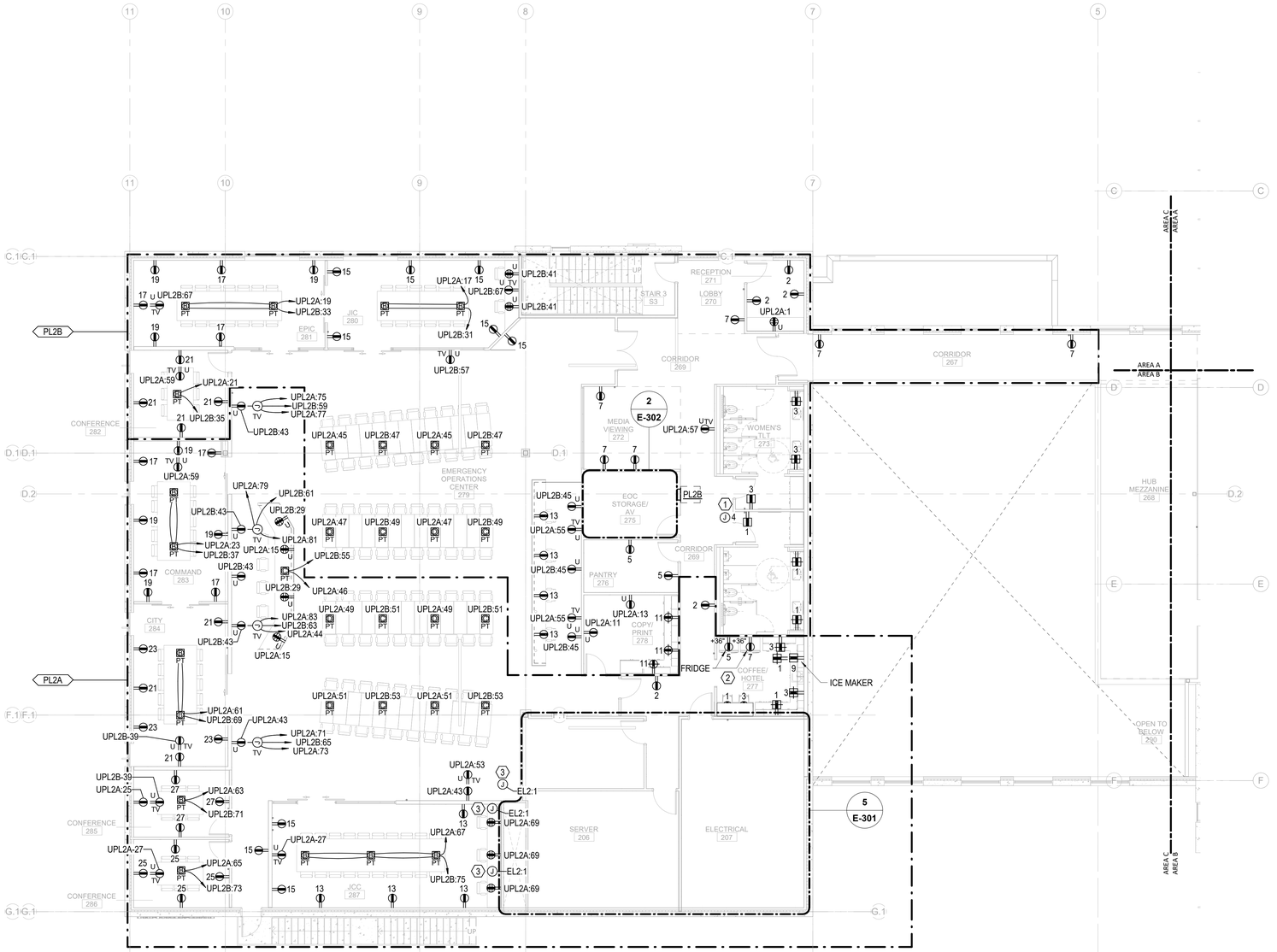
11/19/2020 4:13:03 PM

1 E-102B **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B** 1/8" = 1'-0"



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

(1) JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

(2) WHERE GFCI OUTLET LOCATIONS ARE NOT ACCESSIBLE, PROVIDE BLANK FACE SELF-TEST GFCI OUTLET IN ACCESSIBLE LOCATION, EQUIVALENT TO LEVITON GFRBF SERIES.

(3) JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-102C **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** — **1/8" = 1'-0"**

11/19/2020 4:13:08 PM

CAPE FEAR FD STONEWATER

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NHC Goverment Center 7702-190810

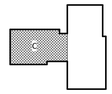
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-102C

TI GMP SET

Newcomb & Boyd
CONSULTANTS AND ENGINEERS
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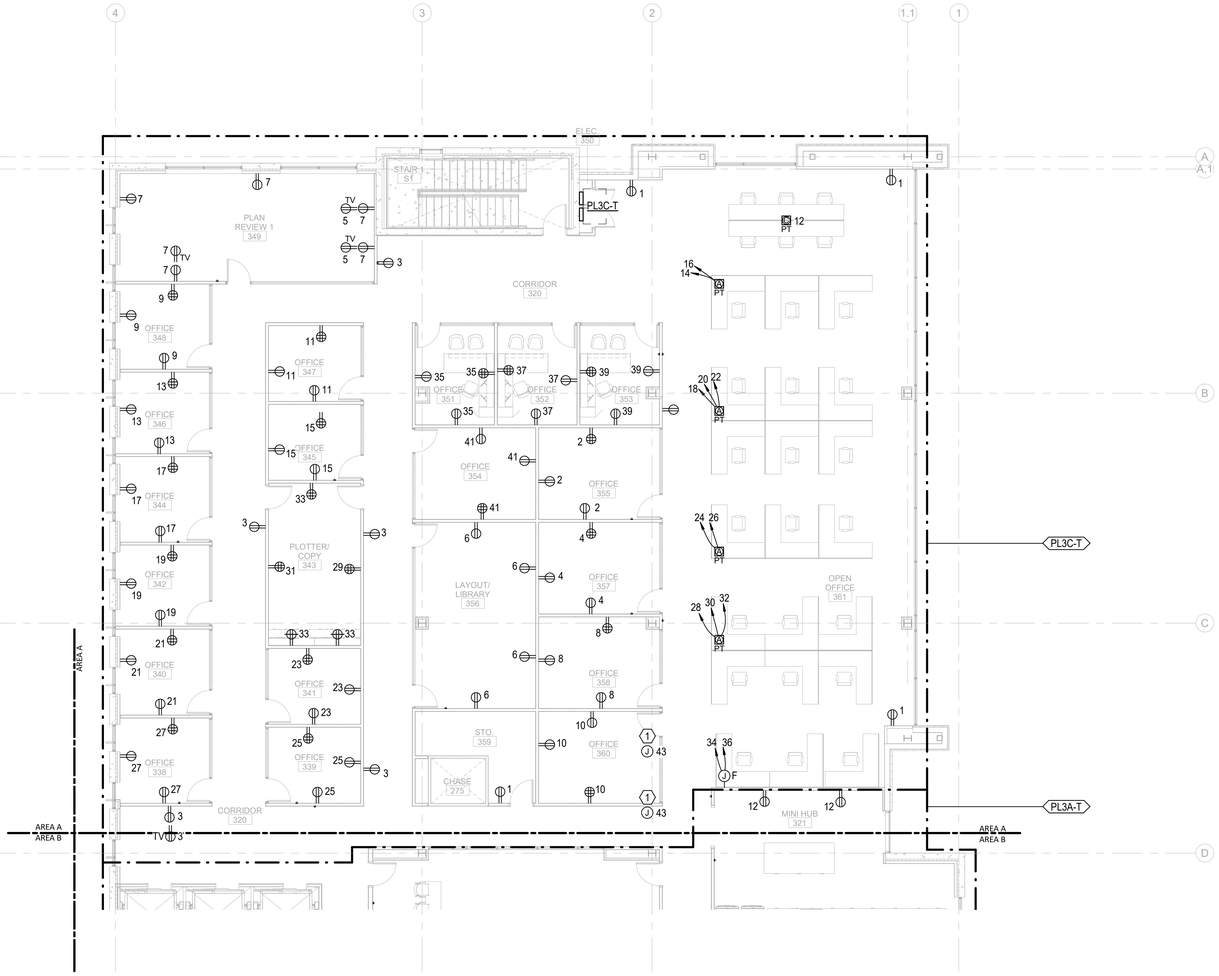
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

(1) JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-103A **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A** — 1/8" = 1'-0"

11/19/2020 4:13:3 PM

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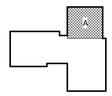
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:

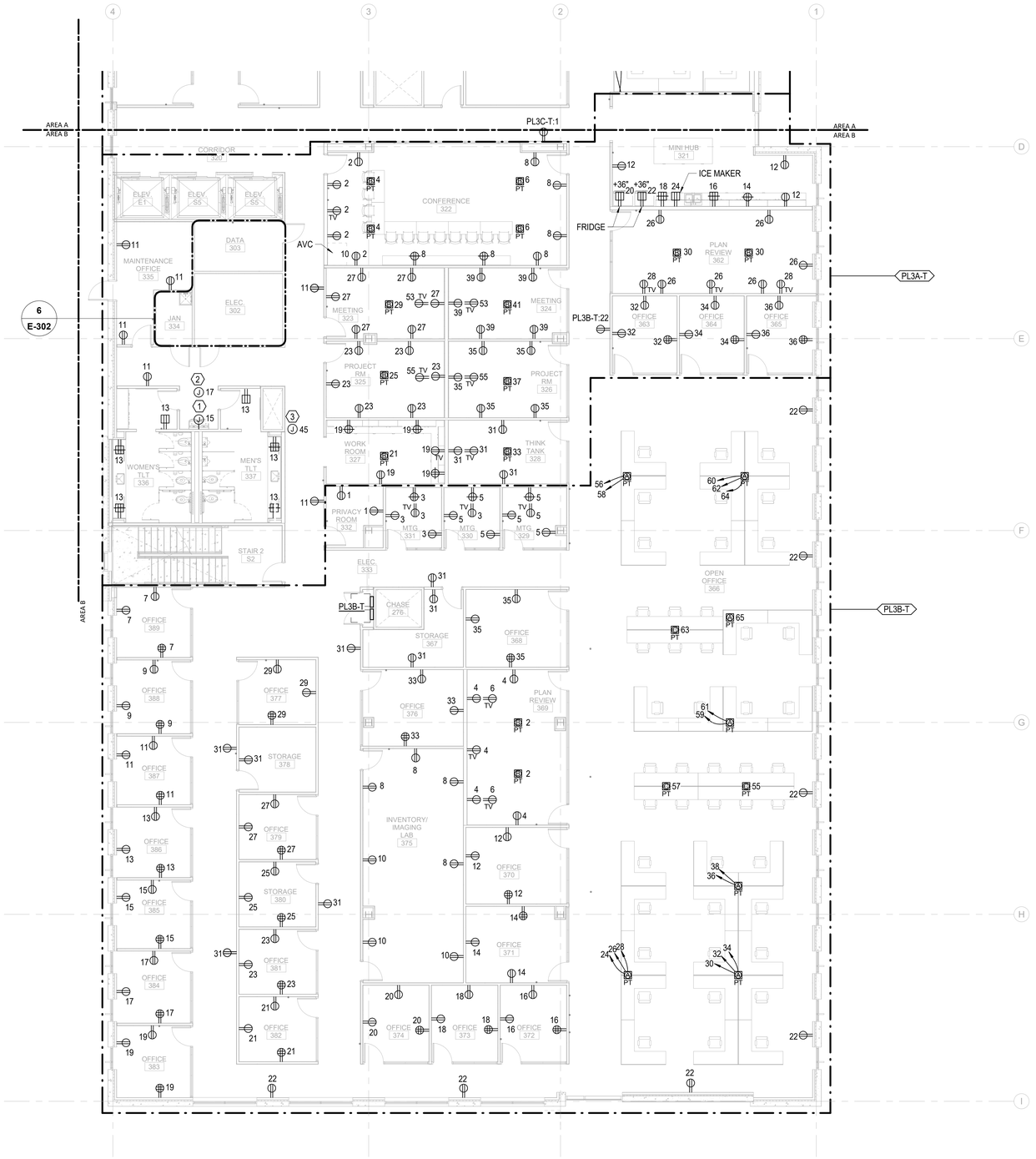


SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-103A

TI GMP SET



0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-103B **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B** 1/8" = 1'-0"

11/19/2020 4:13:19 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

(1) JUNCTION BOX FOR CONNECTION TO WATER COOLER/FOUNTAINS, PROVIDE DEDICATED GFCI 20A, 120V CIRCUIT.

(2) JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

(3) JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

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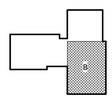
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 3 - AREA B

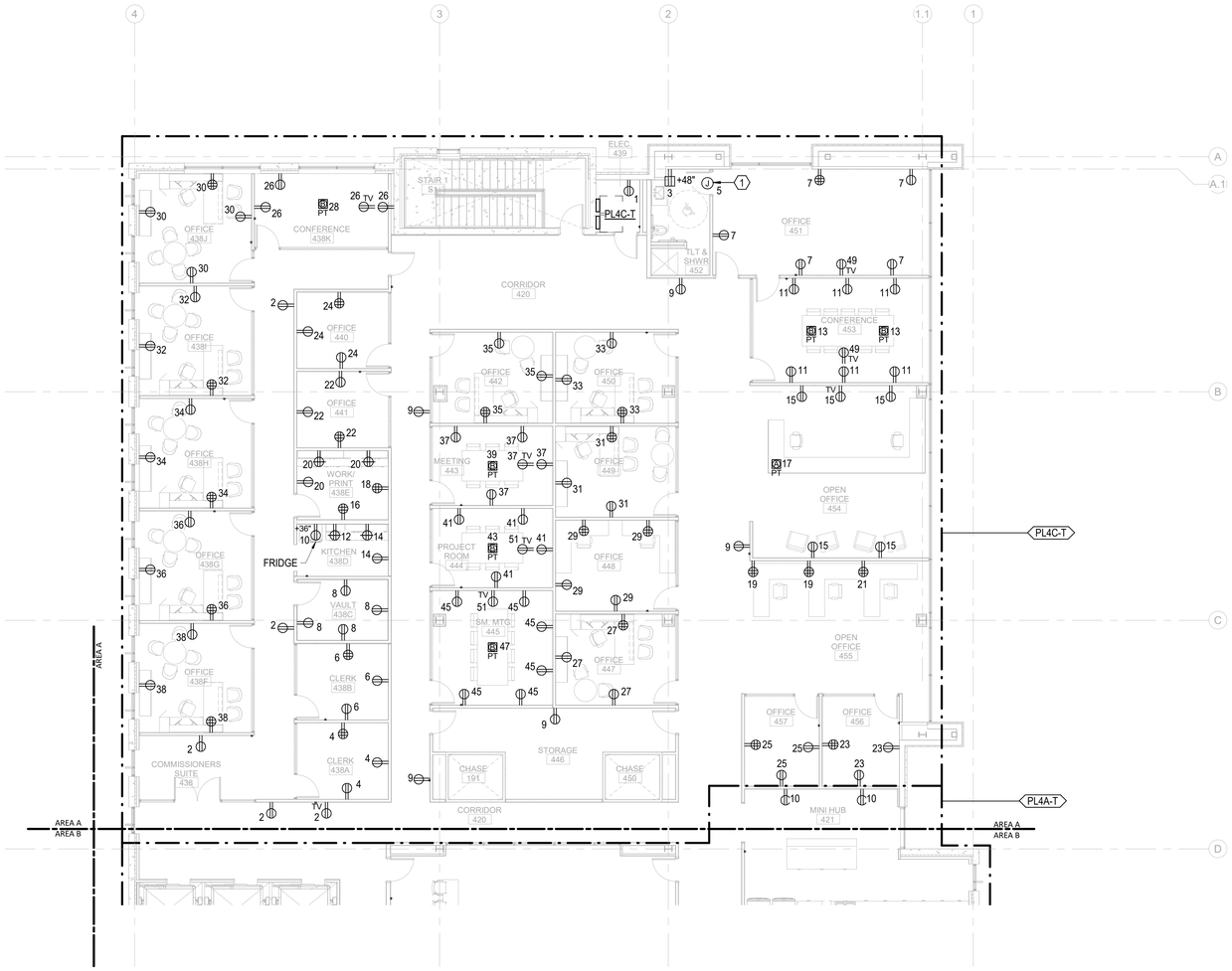
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-103B

TI GMP SET

1 2 3 4 5 6

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

(1) JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / E-104A	ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A	1/8" = 1'-0"

11/19/2020 4:13:24 PM

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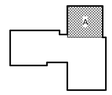
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-104A

TI GMP SET

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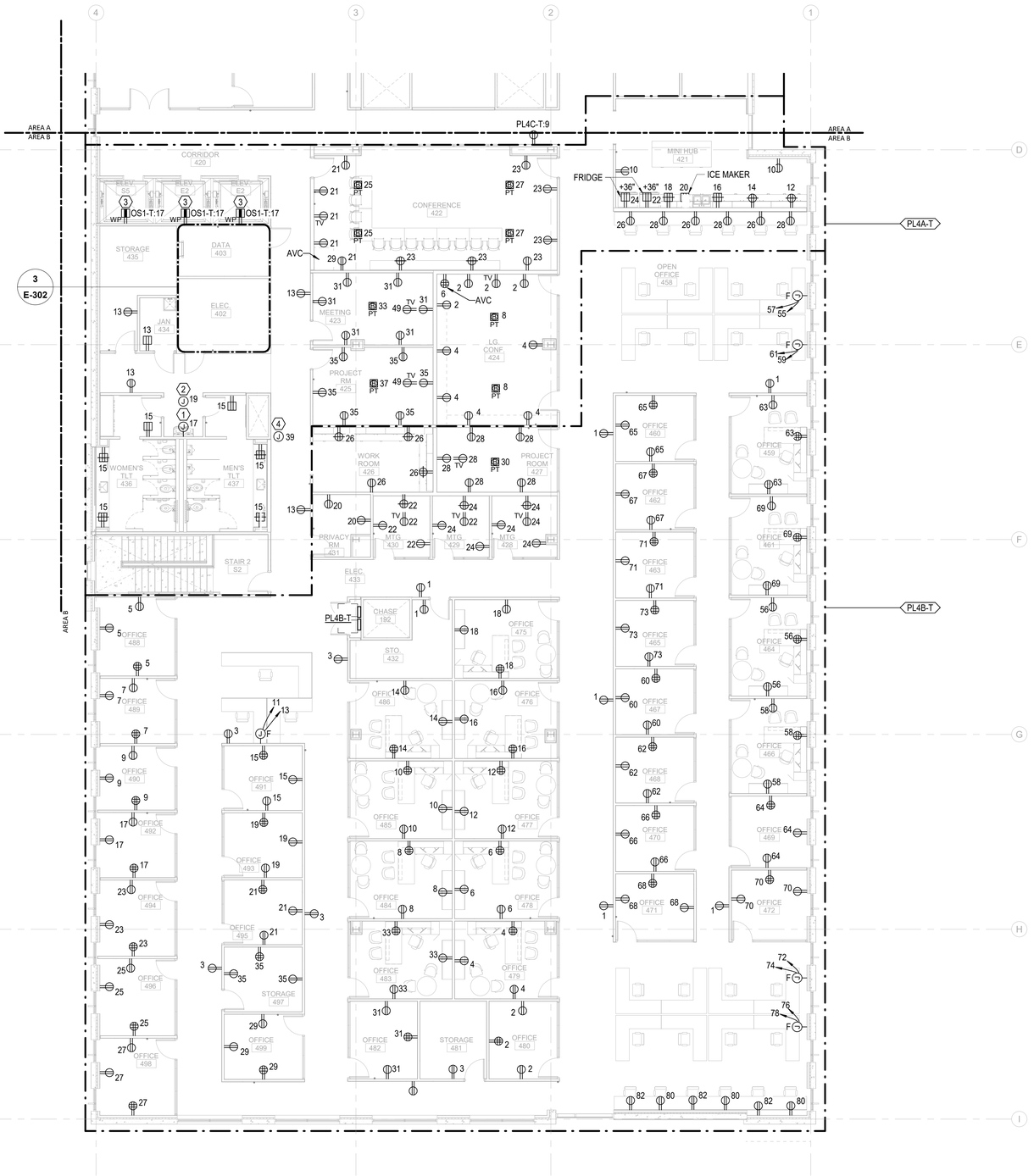
N&B PROJECT: 19N342
Firm License No. F-0312

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWO DIFFERENT DRAWING SCALES



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

(1) JUNCTION BOX FOR CONNECTION TO WATER COOLER/FOUNTAINS, PROVIDE DEDICATED GFCI 20A, 120V CIRCUIT.

(2) JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

(3) INSTALL AT TOP OF ELEVATOR SHAFT

(4) JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-104B **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B** 1/8" = 1'-0"

11/19/2020 4:13:31 PM

1 2 3 4 5 6

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Firm License No. F-0312

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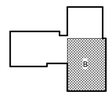
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

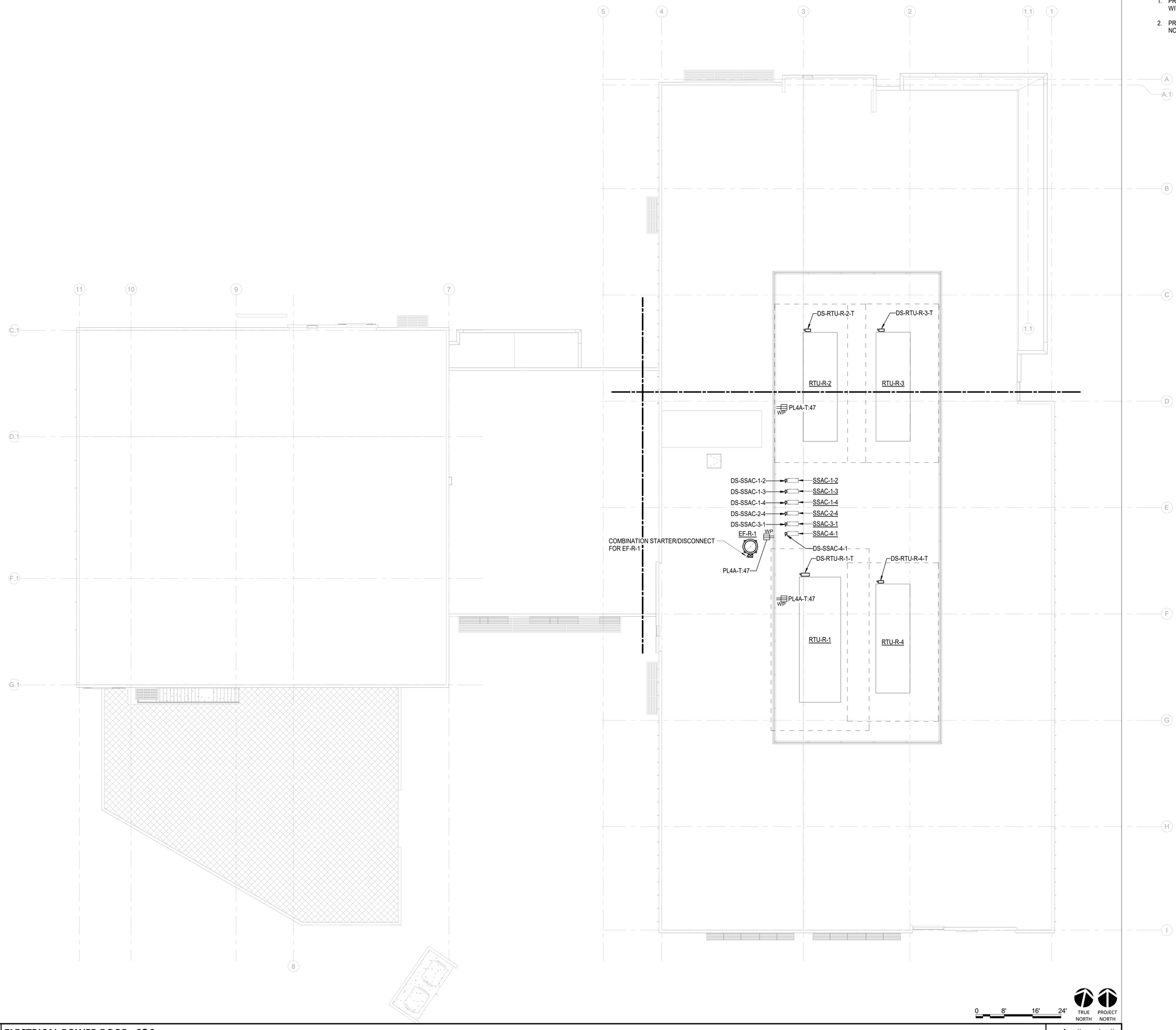
SHEET:
E-104B

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SCALE ON ORIGINAL PLOT

GENERAL NOTES:

1. PROVIDE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH SECTION 264510, LIGHTNING PROTECTION SYSTEM.
2. PROVIDE UNISTRUT RACK FOR ALL ROOF RECEPTACLES NOT ABLE TO BE MOUNTED ON SCREEN WALL.



1 E-105 **ELECTRICAL POWER ROOF - C&S** — 3/32" = 1'-0"

11/19/2020 4:13:38 PM

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:

SHEET NAME:
ELECTRICAL POWER ROOF PLAN - OVERALL

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-105

TI GMP SET

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Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

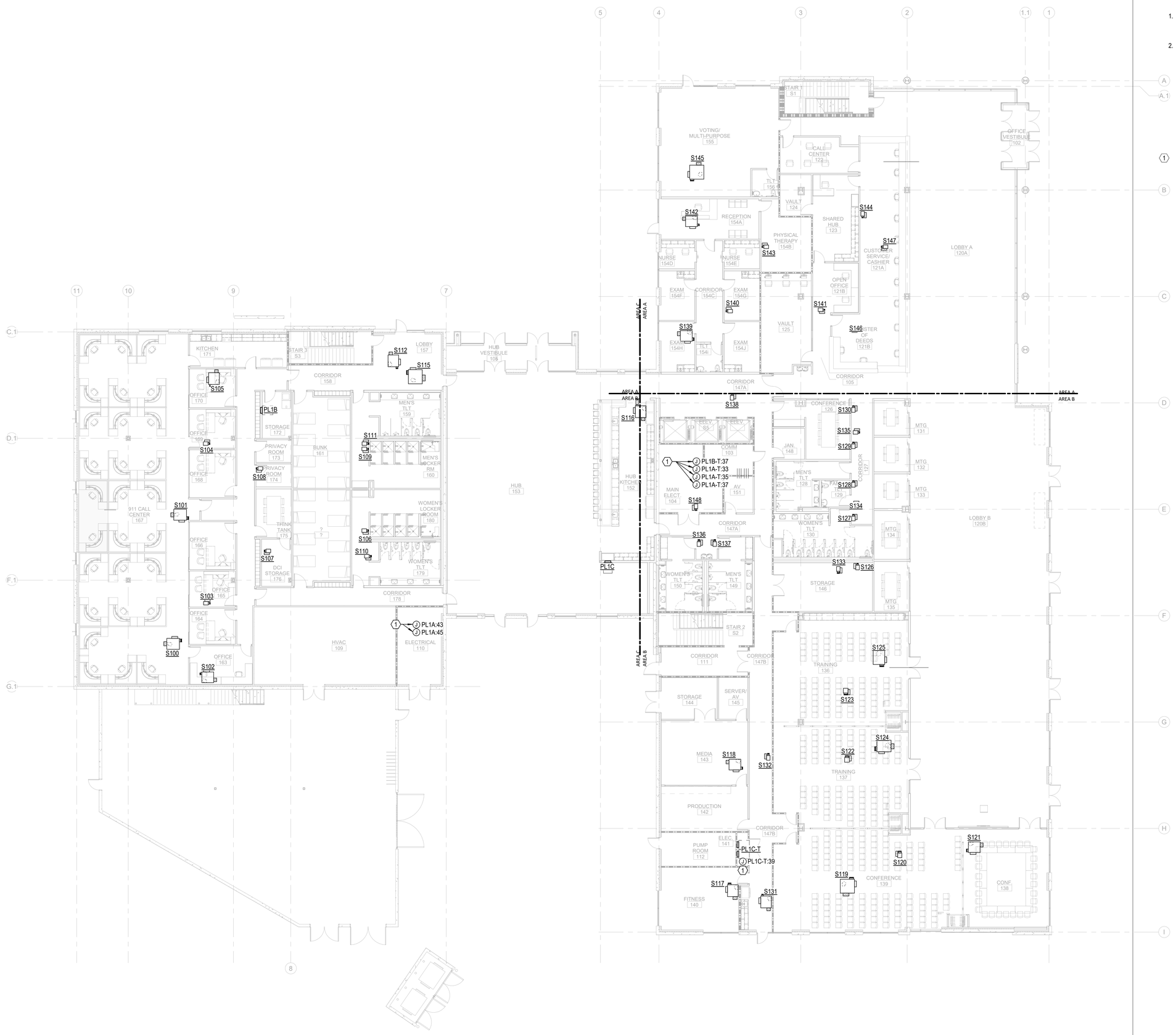
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.

KEY NOTES:

(1) JUNCTION BOX FOR 120V HVAC TERMINAL UNITS CONTROL/DAMPER POWER. SEE TERMINAL UNIT CONNECTION SCHEDULES FOR DETAILS. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.



NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

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LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

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Contact: Paul J. Kitchens
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SHEET NAME:
ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 1

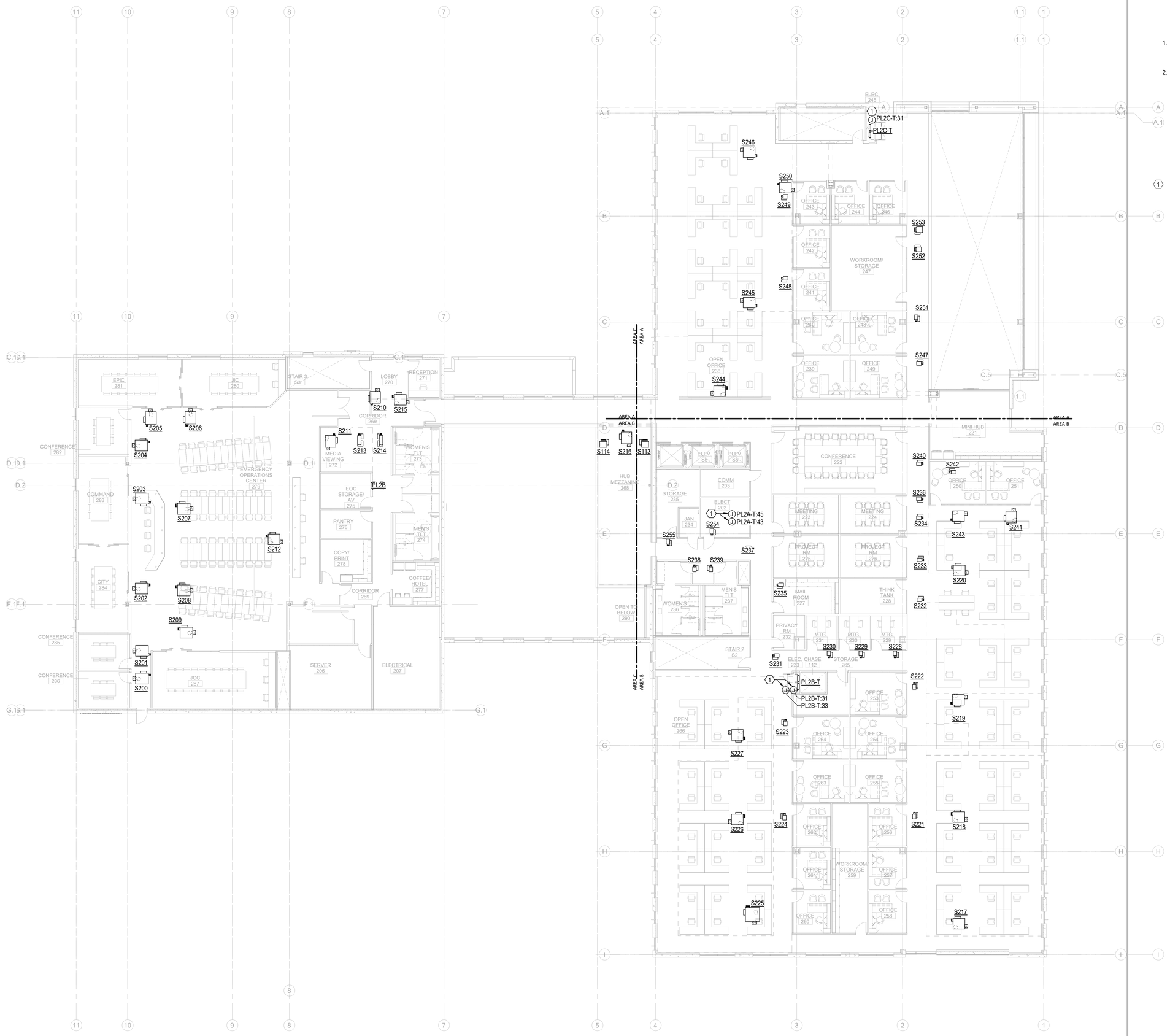
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-111

TI GMP SET

1 / E-111 ELECTRICAL POWER EQUIPMENT LEVEL 1 - TI — 3/32" = 1'-0"

11/19/2020 4:13:50 PM



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.

KEY NOTES:

(1) JUNCTION BOX FOR 120V HVAC TERMINAL UNITS CONTROL/DAMPER POWER. SEE TERMINAL UNIT CONNECTION SCHEDULES FOR DETAILS. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.

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Firm License No. F-0312

SHEET NAME:
ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 2

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-112

TI GMP SET

1 / E-112 **ELECTRICAL POWER EQUIPMENT LEVEL 2 - TI** — 3/32" = 1'-0"

11/19/2020 4:13:55 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.

KEY NOTES:

(1) JUNCTION BOX FOR 120V HVAC TERMINAL UNITS CONTROL/DAMPER POWER. SEE TERMINAL UNIT CONNECTION SCHEDULES FOR DETAILS. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.

1 E-113 **ELECTRICAL POWER EQUIPMENT LEVEL 3 - TI** 3/32" = 1'-0"

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Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 3

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: **E-113**

TI GMP SET

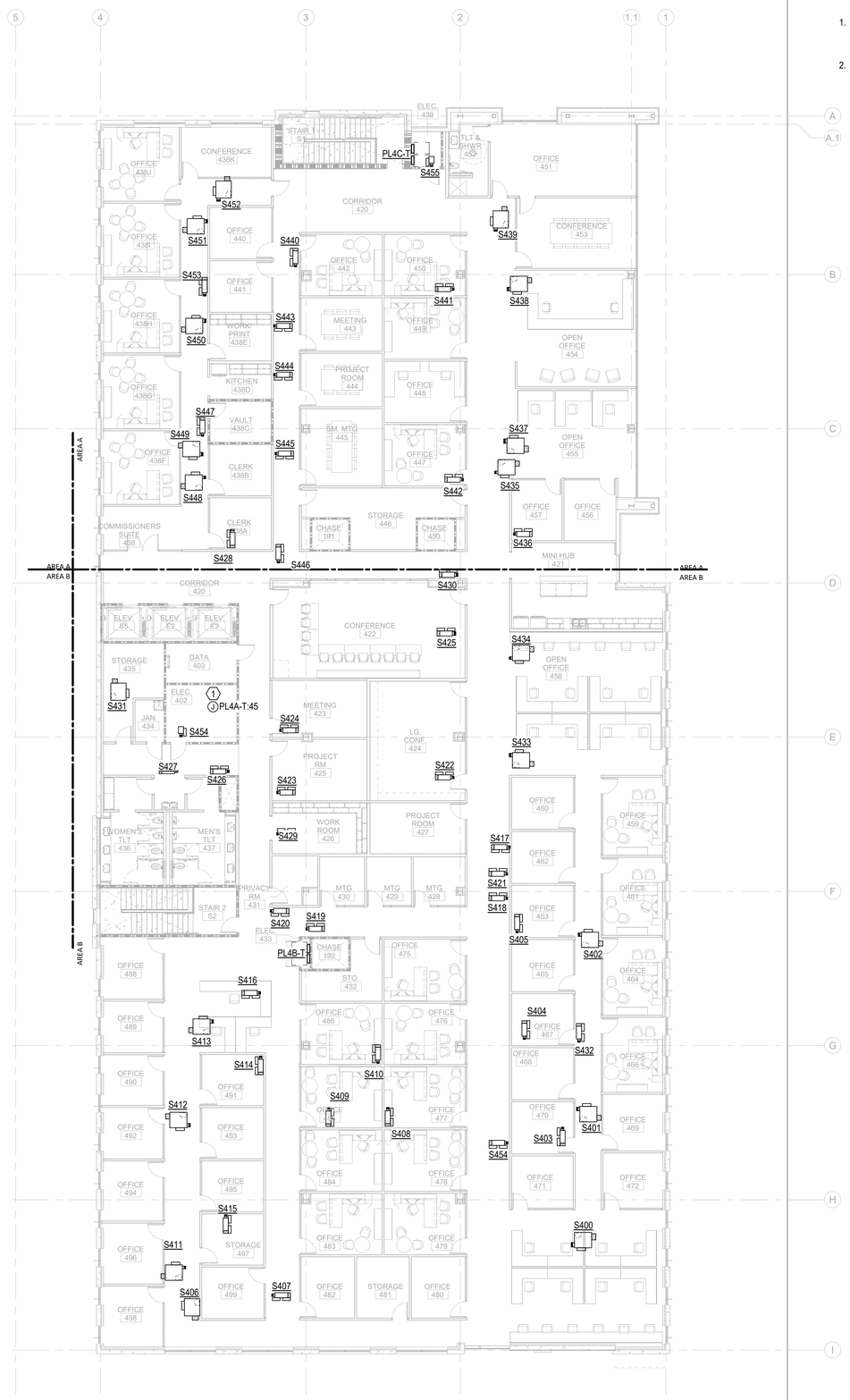
11/19/2020 4:14:03 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.



1 E-114 **ELECTRICAL POWER EQUIPMENT LEVEL 4 - TI** 3/32" = 1'-0"

11/19/2020 4:14:11 PM

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NEW HANOVER COUNTY GOVERNMENT CENTER

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

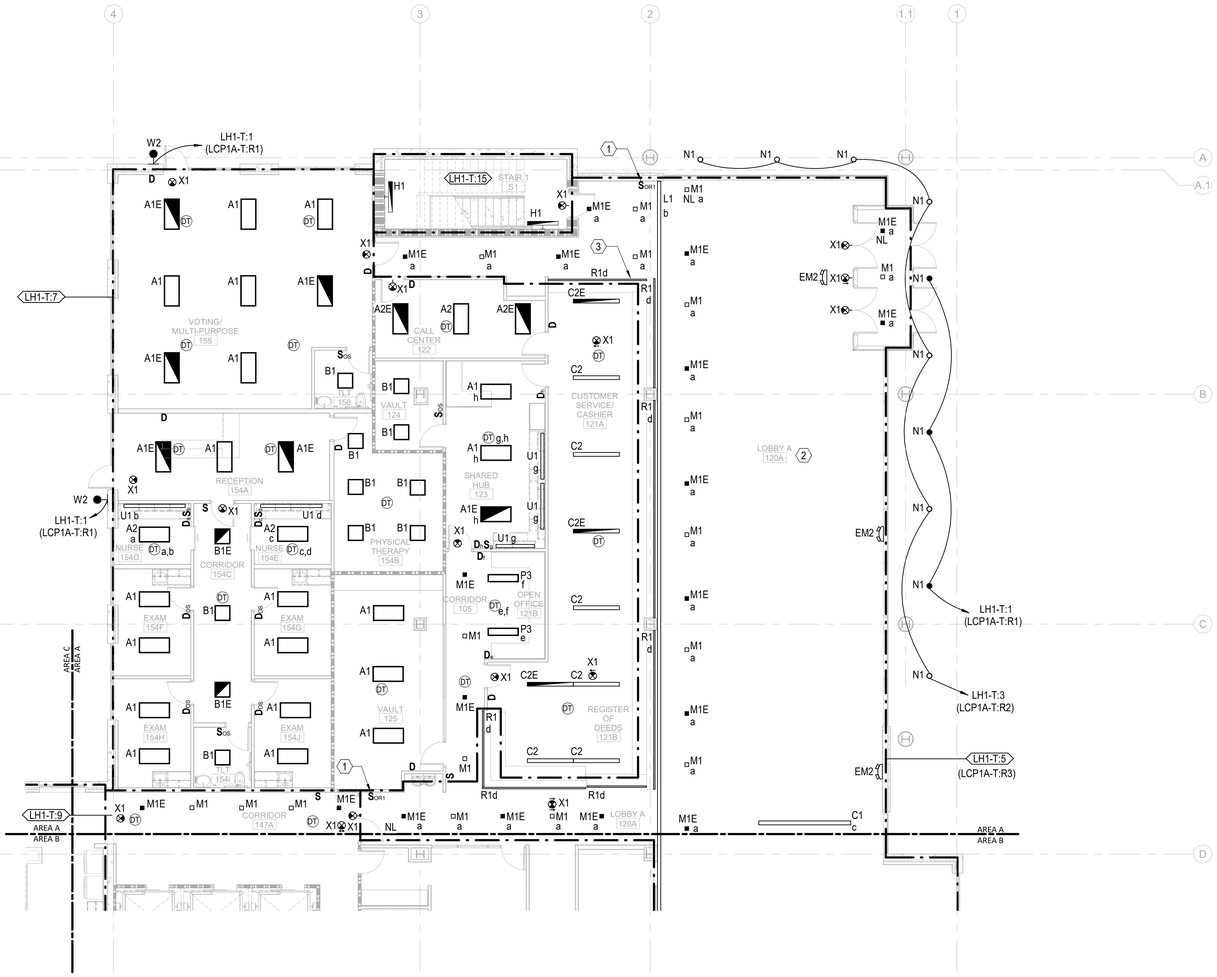
Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 4

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-114

TI GMP SET



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH1-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
7. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR SITE LIGHTING FIXTURE LOCATIONS, TYPES AND DESCRIPTIONS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH. REFER TO RELAY PANEL SCHEDULE FOR DESCRIPTION OF LIGHTING ZONES CONTROLLED.
2. ALL LIGHTING FIXTURES SERVING LOBBY A 120A AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN MAIN ELECTRICAL ROOM.
3. MOUNT TAPE LIGHT UNDER COUNTER IN TOE SPACE. REFER TO ARCHITECTURAL DETAILS FOR MORE MOUNTING INFORMATION.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-201A **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A** — 1/8" = 1'-0"

Newcomb & Boyd
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5425 Page Rd
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T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

CAPE FEAR FD STONEWATER

LS3P

101 NORTH THIRD STREET, SUITE 500
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WWW.LS3P.COM

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI- GMP SET
D	2020.12.16	GMP SET

KEY PLAN:

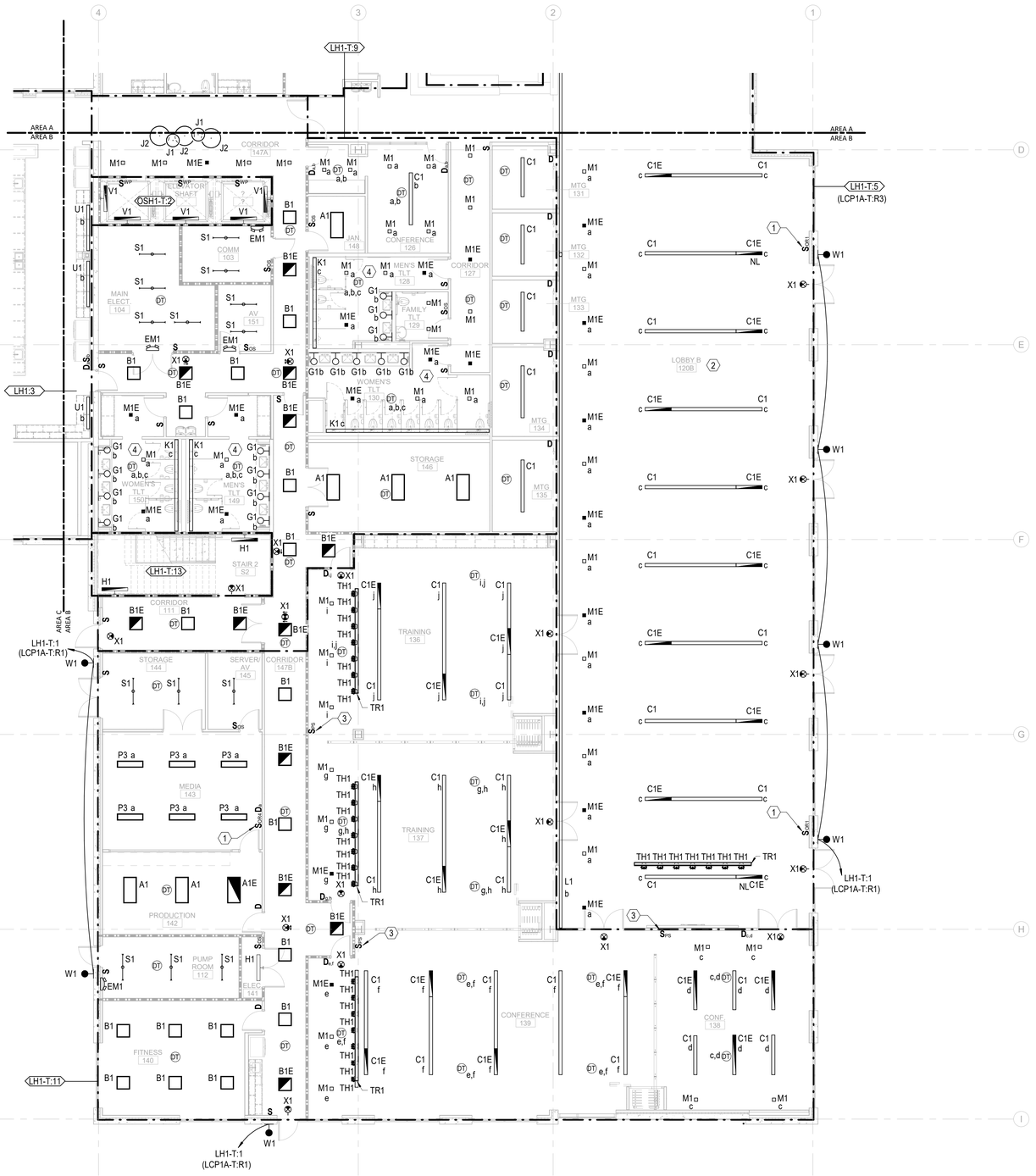
SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA A

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET:
E-201A

GMP SET

12/16/2020 10:07:44 AM



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH1-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
7. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR SITE LIGHTING FIXTURE LOCATIONS, TYPES AND DESCRIPTIONS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH. REFER TO RELAY PANEL SCHEDULE FOR DESCRIPTION OF LIGHTING ZONES CONTROLLED.
2. ALL LIGHTING FIXTURES SERVING LOBBY B 120B AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN MAIN ELECTRICAL ROOM.
3. PROVIDE MANUAL ROOM PARTITION SWITCH FOR RECONFIGURATION OF CONNECTED LIGHTING CONTROL DEVICES BASED ON POSITION OF MOVABLE ROOM PARTITIONS. WHEN PARTITION IS OPEN BETWEEN ANY TWO CONFERENCE ROOMS THE LIGHTING CONTROL DEVICES IN EACH ROOM SHALL SIMULTANEOUSLY CONTROL LIGHTING FIXTURES IN BOTH ROOMS. SWITCH SHOULD BE PROGRAMMED TO RECONFIGURE MORE THAN (2) SPACES AT ONE TIME.
4. ALL LIGHTING IN PUBLIC RESTROOMS SHALL BE CONTROLLED BY A SINGLE ON/OFF SWITCH. PROVIDE SEPARATE DIMMABLE POWER PACKS FOR EACH FIXTURE TYPE IN THE ROOM.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-201B **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B** 1/8" = 1'-0"

CAPE FEAR FD STONEWATER

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

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WILMINGTON, NC 28403

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A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI- GMP SET
D	2020.12.16	GMP SET

KEY PLAN:

SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA B

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET:
E-201B

GMP SET

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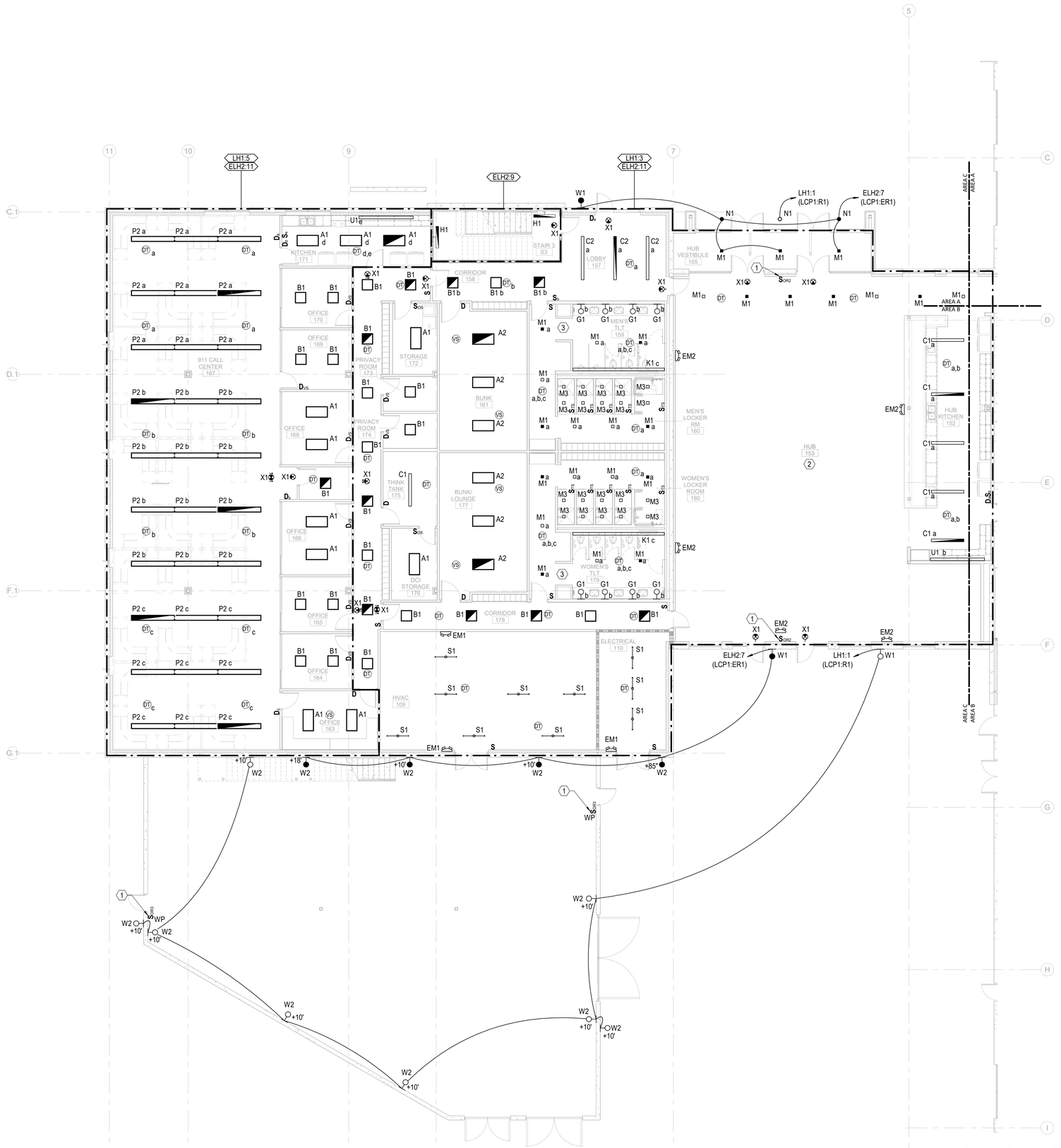
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

12/16/2020 10:07:55 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



GENERAL NOTES:

1. NORMAL LUMINARIES SHALL BE HOMERUN TO PANEL "LH1", UON. EMERGENCY LUMINARIES SHALL BE HOMERUN TO PANEL "ELH2", UON.
2. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME ROOM/AREA UNDER NORMAL CONDITIONS UON. UPON LOSS OF NORMAL POWER ALL EMERGENCY FIXTURES SHALL COME ON AT FULL BRIGHTNESS. PROVIDE EMERGENCY LIGHTING RELAYS AS REQUIRED.
3. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING AND SITE LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM FOR AUTOMATIC TIME CLOCK BASED CONTROL. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
4. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
5. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR SITE LIGHTING FIXTURE LOCATIONS, TYPES AND DESCRIPTIONS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH. REFER TO RELAY PANEL SCHEDULE FOR DESCRIPTION OF LIGHTING ZONES CONTROLLED.
2. ALL LIGHTING FIXTURES SERVING HUB 153 AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN ELECTRICAL 168.
3. ALL LIGHTING IN PUBLIC RESTROOMS, EXCLUDING SHOWER AREAS, SHALL BE CONTROLLED BY A SINGLE ON/OFF SWITCH. SHOWER AREAS TO BE CONTROLLED BY SEPARATE TIME OUT SWITCHES. PROVIDE SEPARATE DIMMABLE POWER PACKS FOR EACH FIXTURE TYPE IN THE ROOM.

1 E-201C **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** 1/8" = 1'-0"

12/16/2020 10:07:58 AM

CAPE FEAR FD STONEWATER

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NEW HANOVER COUNTY GOVERNMENT CENTER

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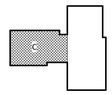
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI- GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA C

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET:
E-201C

GMP SET

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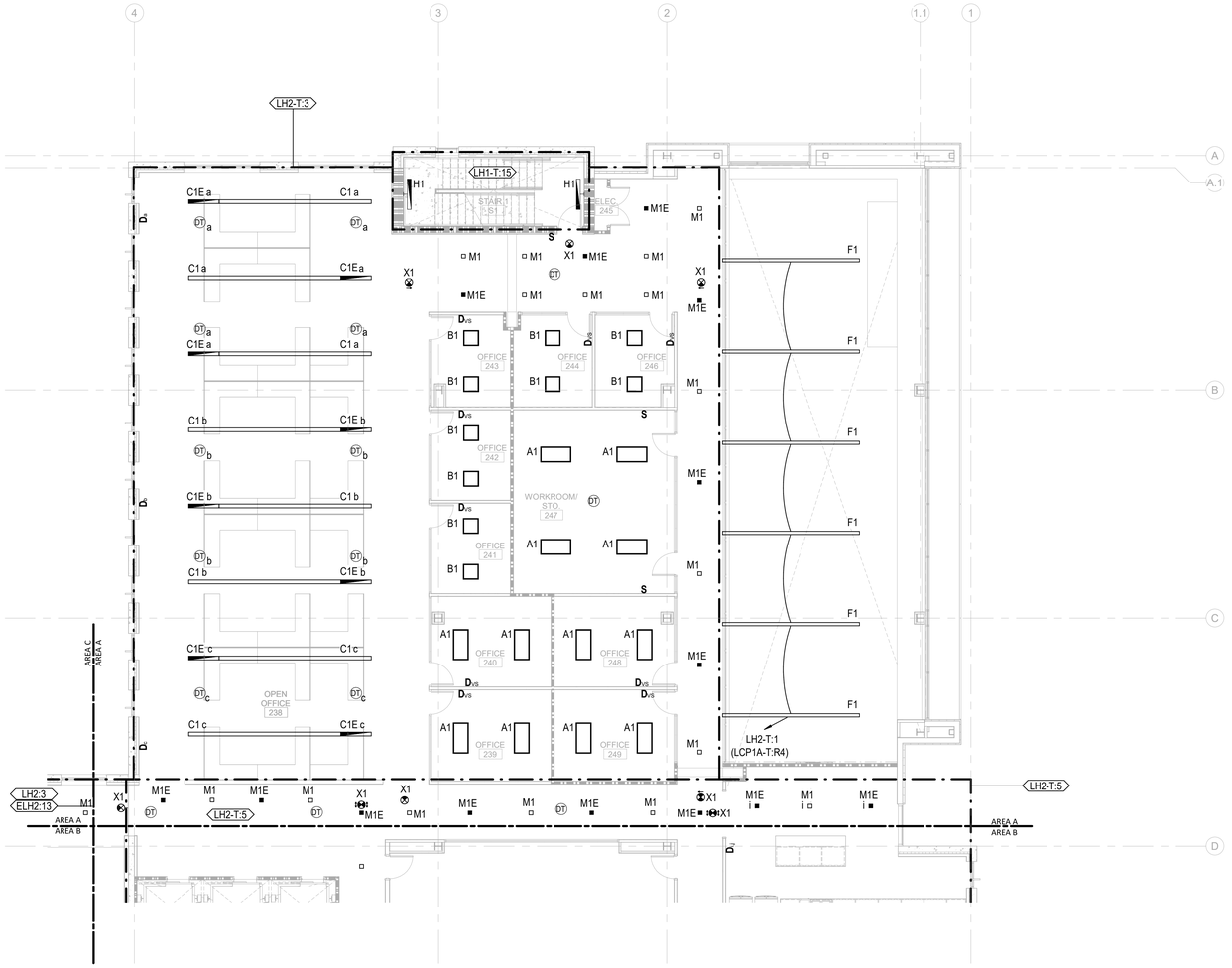
N&B PROJECT: 19N342
Firm License No. F-0312

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH2-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
2. ALL LIGHTING FIXTURES SERVING LOBBY A 120A AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN MAIN ELECTRICAL ROOM.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-202A **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A** — 1/8" = 1'-0"

12/16/2020 10:08:03 AM

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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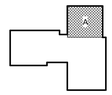
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI- GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA A

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET:
E-202A

GMP SET

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N&B PROJECT: 19N342
Firm License No. F-0312

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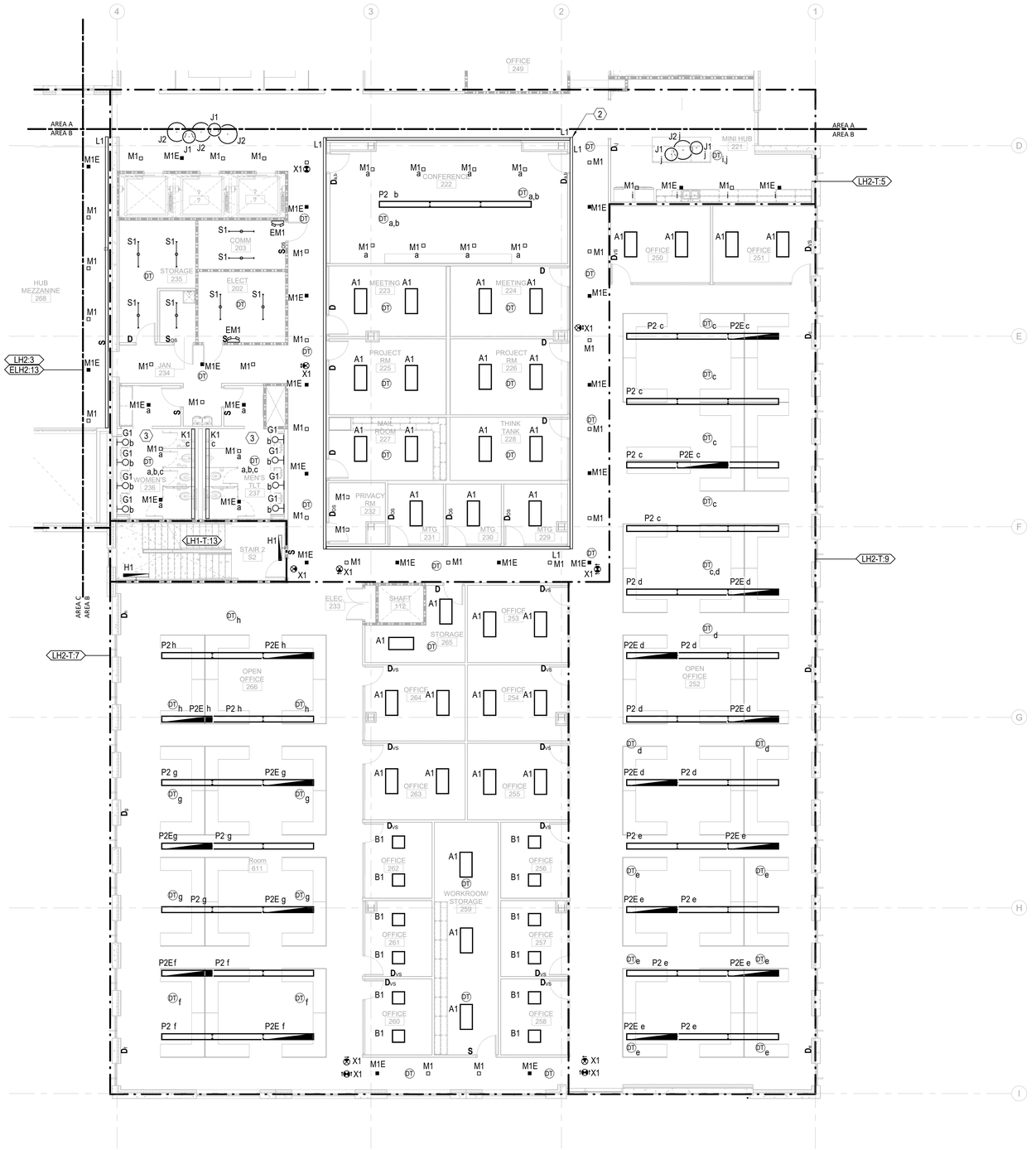

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1/8" = 1'-0"

1 E-202B **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B**

12/16/2020 10:08:11 AM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLOTTED

GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH2-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
2. PROVIDE CONTINUOUSLY ILLUMINATED 90 DEGREE CORNERS MATCHING L1 FIXTURE TYPE AT EACH CORNER OF COVE LIGHT L1 AROUND CORE AREA.
3. ALL LIGHTING IN PUBLIC RESTROOMS SHALL BE CONTROLLED BY A SINGLE ON/OFF SWITCH. PROVIDE SEPARATE DIMMABLE POWER PACKS FOR EACH FIXTURE TYPE IN THE ROOM.

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NHC Goverment Center 7702-190810

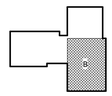
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI- GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA B

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET:
E-202B

GMP SET

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5425 Page Rd
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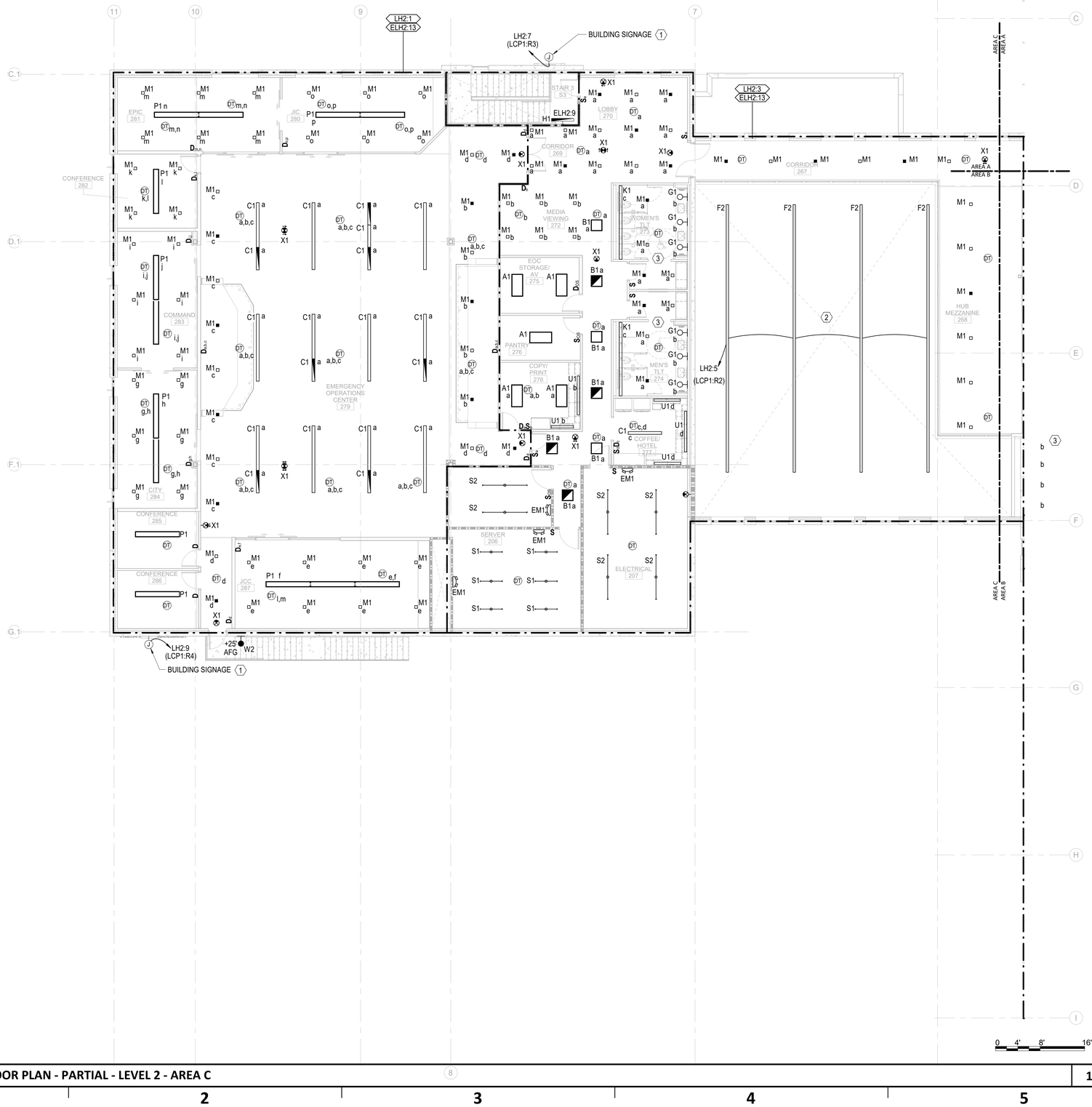

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GENERAL NOTES:

1. NORMAL LUMINARIES SHALL BE HOMERUN TO PANEL "LH2", UON. EMERGENCY LUMINARIES SHALL BE HOMERUN TO PANEL "ELH1", UON.
2. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME ROOM/AREA UNDER NORMAL CONDITIONS UON. UPON LOSS OF NORMAL POWER ALL EMERGENCY FIXTURES SHALL COME ON AT FULL BRIGHTNESS. PROVIDE EMERGENCY LIGHTING RELAYS AS REQUIRED.
3. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
4. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
5. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. PROVIDE POWER TO INTERNALLY ILLUMINATED SIGNAGE. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION AND MOUNTING HEIGHT. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH GC PRIOR TO FINAL ROUGH-IN. ROUTE CIRCUIT VIA LIGHTING CONTROL PANEL LOCATED IN ELECTRICAL 168 FOR TIME CLOCK CONTROL.
2. ALL LIGHTING FIXTURES SERVING HUB 153 AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN ELECTRICAL 168.
3. ALL LIGHTING IN PUBLIC RESTROOMS SHALL BE CONTROLLED BY A SINGLE ON/OFF SWITCH. PROVIDE SEPARATE DIMMABLE POWER PACKS FOR EACH FIXTURE TYPE IN THE ROOM.

CAPE FEAR FD STONEWATER

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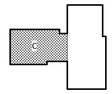
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA C

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET:
E-202C

GMP SET

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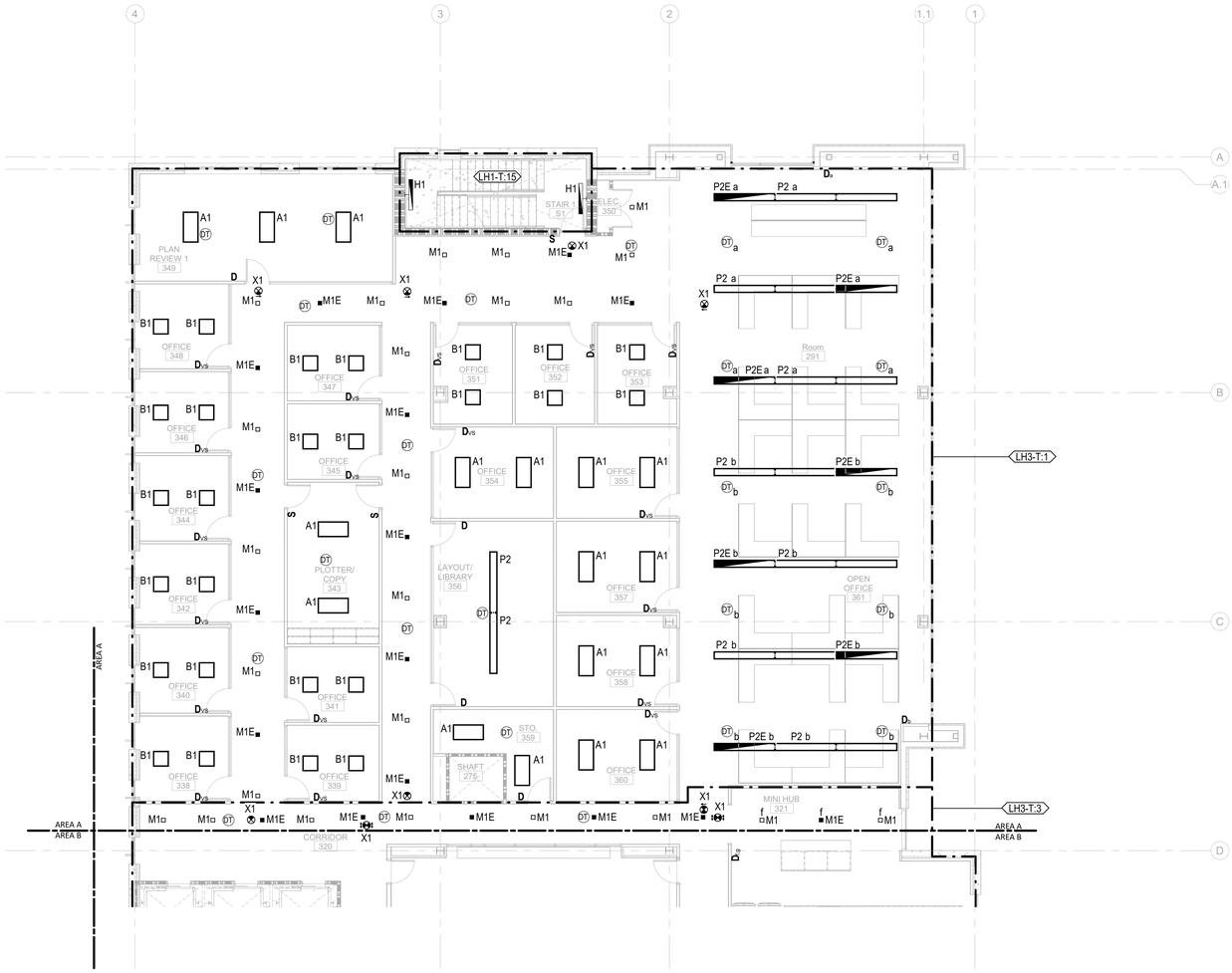
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

12/16/2020 10:08:13 AM

1 E-202C **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** 1/8" = 1'-0"



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH3-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

(1) LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-203A **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A** — 1/8" = 1'-0"

12/16/2020 10:08:18 AM

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101 NORTH THIRD STREET, SUITE 500
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NHC Goverment Center 7702-190810

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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A	2020.08.18	TI- SCHEMATIC DESIGN
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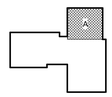
C	2020.11.20	TI- GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 3 - AREA A

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET: **E-203A**

GMP SET

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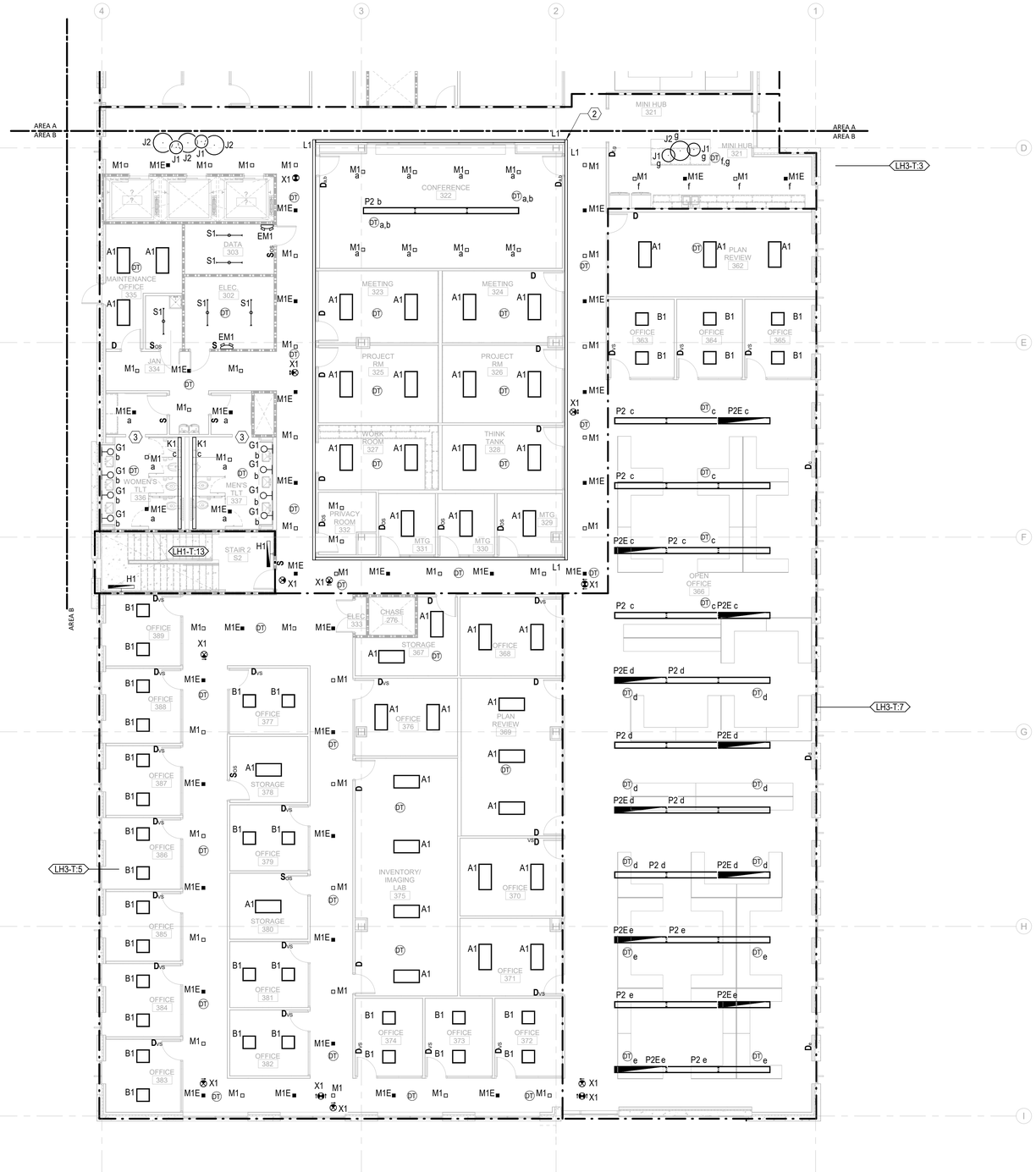
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLOTTED



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH3-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
2. PROVIDE CONTINUOUSLY ILLUMINATED 90 DEGREE CORNERS MATCHING L1 FIXTURE TYPE AT EACH CORNER OF COVE LIGHT L1 AROUND CORE AREA.
3. ALL LIGHTING IN PUBLIC RESTROOMS SHALL BE CONTROLLED BY A SINGLE ON/OFF SWITCH. PROVIDE SEPARATE DIMMABLE POWER PACKS FOR EACH FIXTURE TYPE IN THE ROOM.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-203B **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B** 1/8" = 1'-0"

12/16/2020 10:08:20 AM

CAPE FEAR FD STONEWATER

LS3P

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

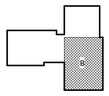
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI- GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 3 - AREA B

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET:
E-203B

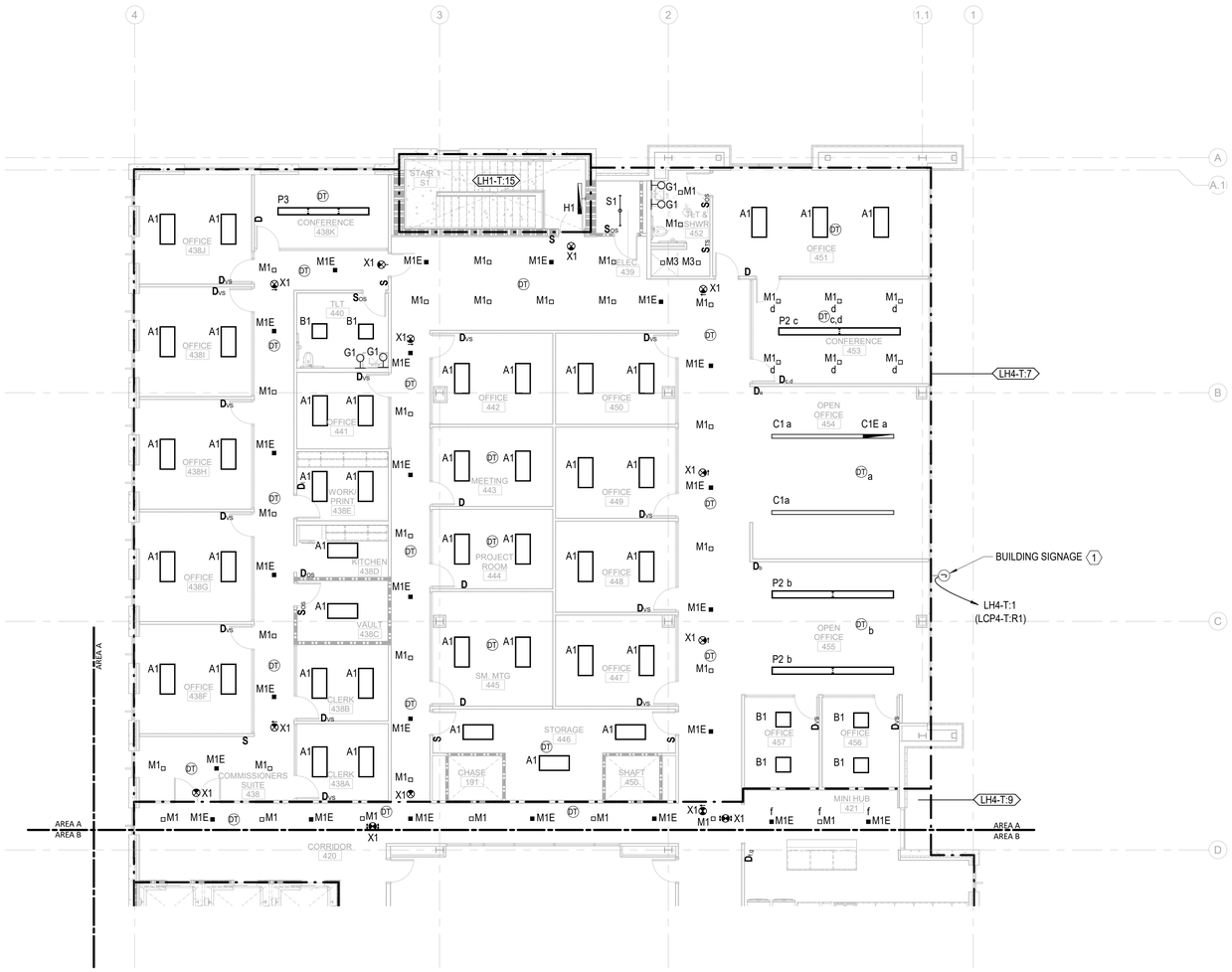
GMP SET

Newcomb & Boyd
CONSULTANTS AND ENGINEERS
Consulting Engineering Group
5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

1 2 3 4 5 6

A B C D E

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH4-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. PROVIDE POWER TO INTERNALLY ILLUMINATED SIGNAGE. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION AND MOUNTING HEIGHT. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH GC PRIOR TO FINAL ROUGH-IN. ROUTE CIRCUIT VIA LIGHTING CONTROL PANEL LOCATED IN MAIN ELECTRICAL ROOM FOR TIME CLOCK CONTROL.
2. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-204A **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A** 1/8" = 1'-0"

12/16/2020 10:08:25 AM

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WILMINGTON, NC 28403

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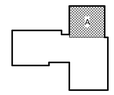
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI- GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 4 - AREA A

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET:
E-204A

GMP SET

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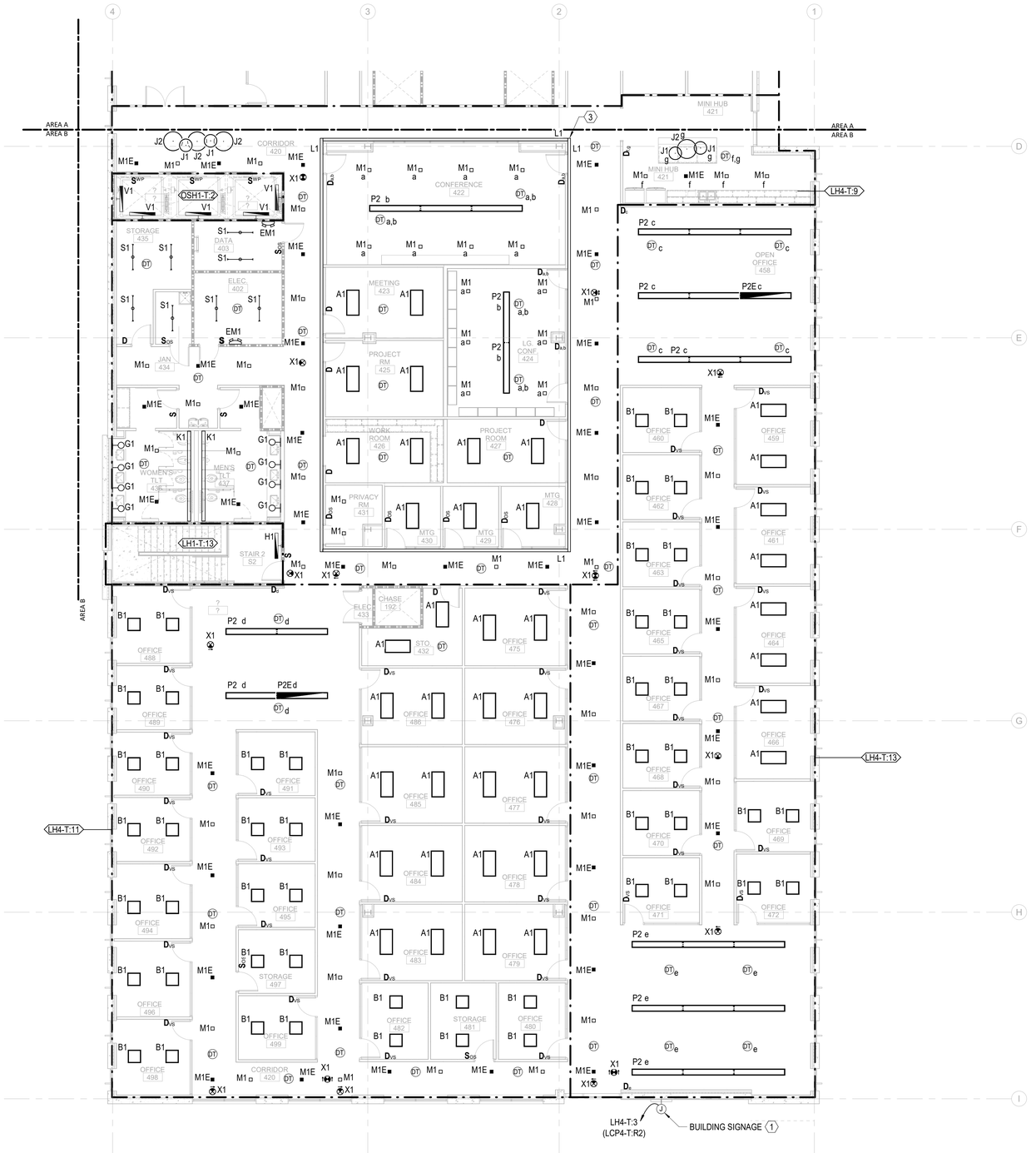
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLOTTED



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH4-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. PROVIDE POWER TO INTERNALLY ILLUMINATED SIGNAGE. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION AND MOUNTING HEIGHT. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH GC PRIOR TO FINAL ROUGH-IN. ROUTE CIRCUIT VIA LIGHTING CONTROL PANEL LOCATED IN MAIN ELECTRICAL ROOM FOR TIME CLOCK CONTROL.
2. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
3. PROVIDE CONTINUOUSLY ILLUMINATED 90 DEGREE CORNERS MATCHING L1 FIXTURE TYPE AT EACH CORNER OF COVE LIGHT L1 AROUND CORE AREA.
4. ALL LIGHTING IN PUBLIC RESTROOMS SHALL BE CONTROLLED BY A SINGLE ON/OFF SWITCH. PROVIDE SEPARATE DIMMABLE POWER PACKS FOR EACH FIXTURE TYPE IN THE ROOM.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 E-204B **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B** 1/8" = 1'-0"

12/16/2020 10:08:28 AM

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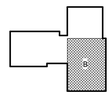
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.11.20	TI- GMP SET
D	2020.12.16	GMP SET

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 4 - AREA B

DATE: 2020.12.16
CURRENT: 2020.12.16
GMP SET

SHEET:
E-204B

GMP SET

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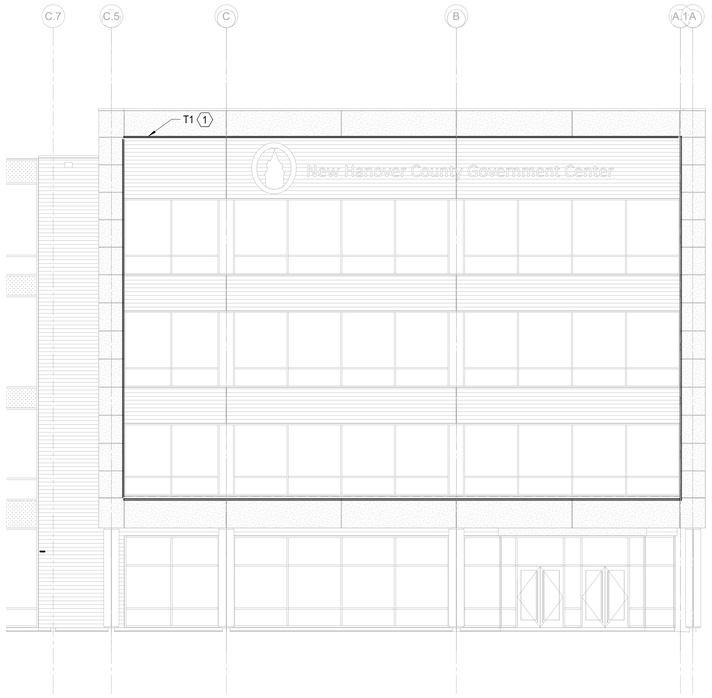
N&B PROJECT: 19N342
Firm License No. F-0312

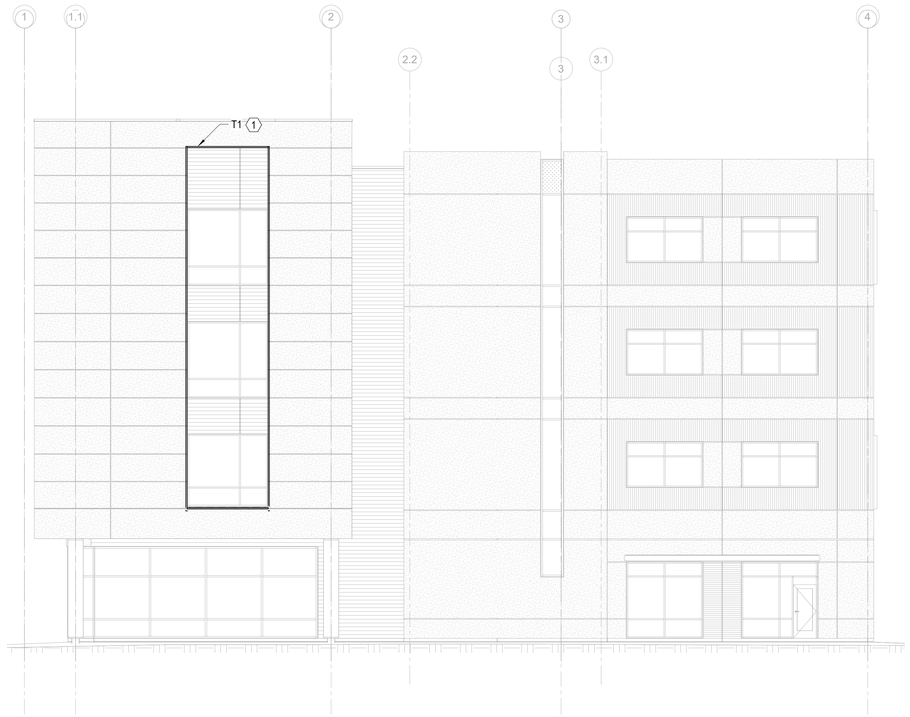
1 2 3 4 5 6

A B C D E

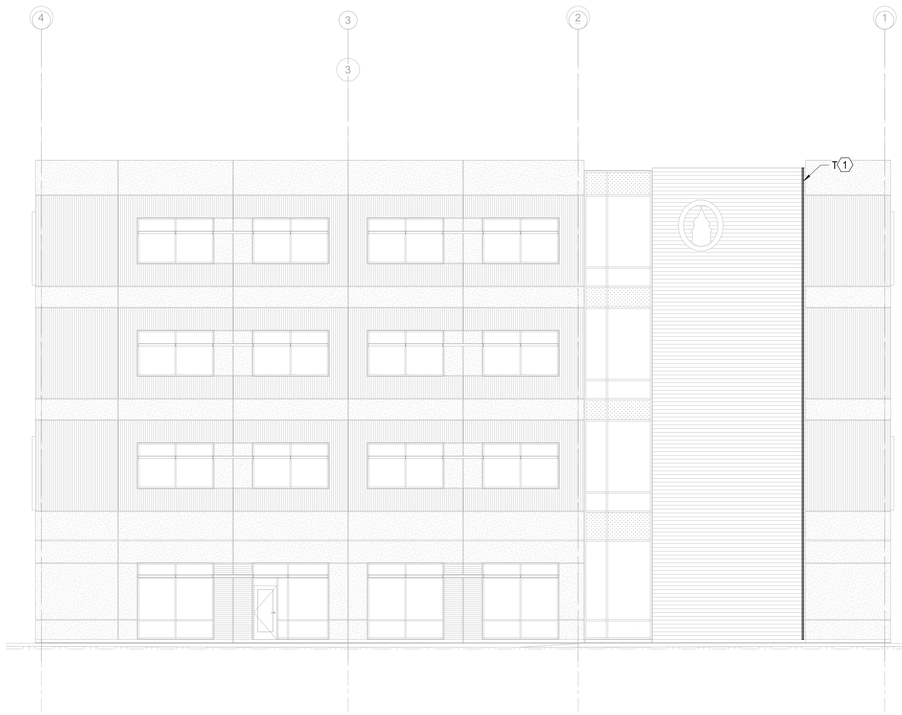
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



1 / E-205	ELECTRICAL LIGHTING - EXTERIOR FACADE - AREA A - EAST	1/8" = 1'-0"



2 / E-205	ELECTRICAL LIGHTING - EXTERIOR FACADE - AREA A - NORTH	1/8" = 1'-0"



3 / E-205	ELECTRICAL LIGHTING - EXTERIOR FACADE - AREA B - SOUTH	1/8" = 1'-0"

KEY NOTES:

1 INSTALL LED ROPE LIGHT CONTINUOUSLY IN ARCHITECTURAL COVE. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS. LOCATE REMOTE FIXTURE POWER SUPPLIES INSIDE THE BUILDING ACCESSIBLE ABOVE CEILING. ROUTE BRANCH CIRCUIT SUPPLYING THE ROPE LIGHT VIA LIGHTING CONTROL RELAY PANEL "LCP4-T" IN THE 4TH FLOOR ELECTRICAL ROOM FOR TIME CLOCK CONTROL.

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Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
ELECTRICAL LIGHTING FACADE ELEVATIONS

DATE:
CURRENT: 2020.11.20
TI GMP SET

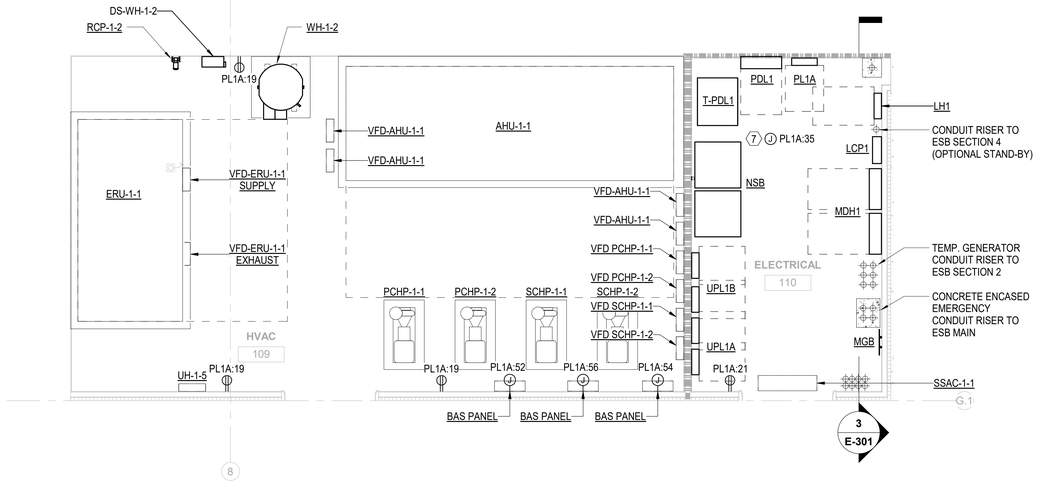
SHEET:
E-205

TI GMP SET

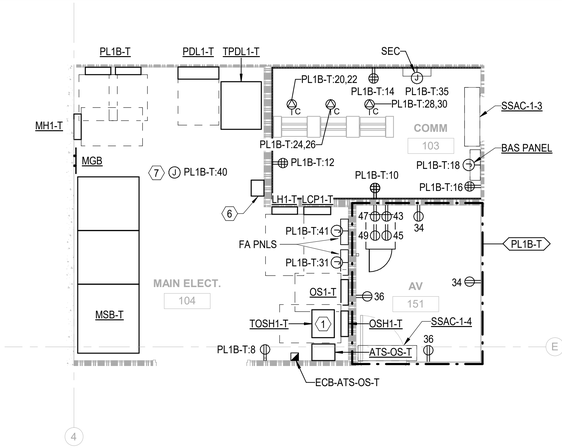
11/19/2020 4:15:16 PM

E D C B A

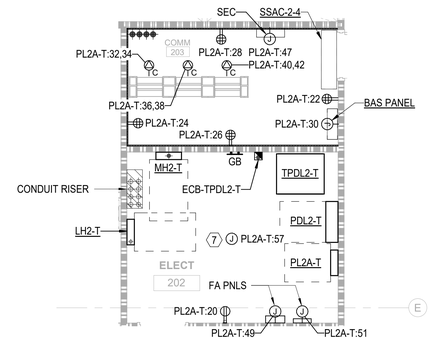
1 2 3 4 5 6



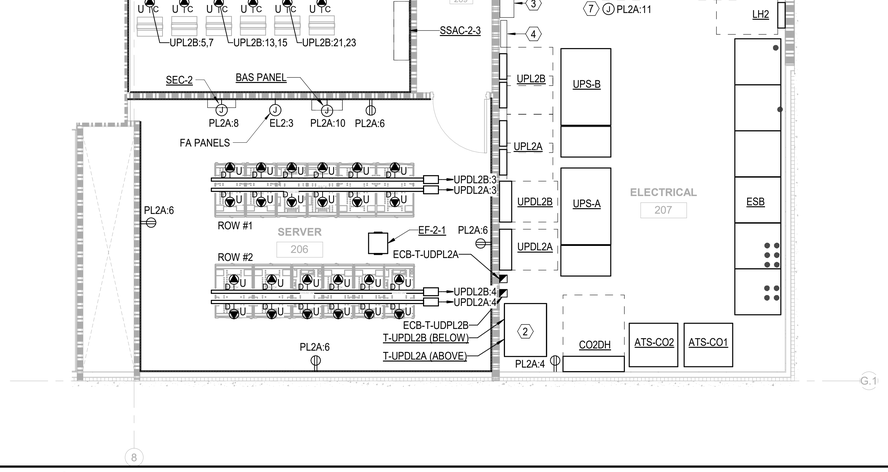
4 E-301	ELECTRICAL / HVAC ROOM - ENLARGED - LEVEL 1 - AREA C	NTS



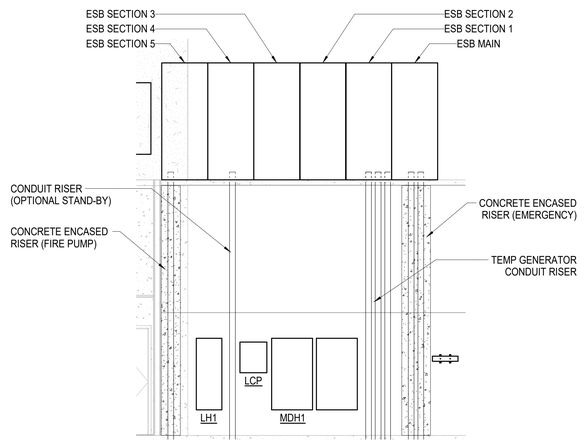
1 E-301	ELECTRICAL / COMM / AV ROOM - ENLARGED - LEVEL 1 - AREA B	NTS



2 E-301	ELECTRICAL / COMM ROOM - ENLARGED - LEVEL 2 - AREA B	NTS



5 E-301	ELECTRICAL / SERVER ROOM - ENLARGED - LEVEL 2 - AREA C	NTS



3 E-301	ELECTRICAL ROOM - CONDUIT RISER SECTION - AREA C	NTS

KEY NOTES:

1. INSTALL TRANSFORMER SUSPENDED FROM THE STRUCTURE ABOVE.
2. PROVIDE STRUCTURAL STEEL TO MOUNT T-UPDL2A TRANSFORMER ABOVE T-UPDL2B TRANSFORMER. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF STRUCTURAL SUPPORT FOR APPROVAL PRIOR TO CONSTRUCTION.
3. PROVIDE WALL MOUNTED GENERATOR SET MASTER CONTROLLER WITH INTEGRAL LOAD SHED CONTROL RELAYS.
4. PROVIDE GENERATOR REMOTE ANNUNCIATOR PANEL FOR EACH GENERATOR SET.
5. PROVIDE EMERGENCY GENERATOR SHUT-OFF FOR EACH GENERATOR SET.
6. PROVIDE 277V, 250W LIGHTING INVERTER. INSTALL INVERTER MOUNTED TO THE WALL AT 8' AFF, AVOIDING SWITCHBOARD WORKING CLEARANCES.
7. JUNCTION BOX FOR 120V MISCELLANEOUS HVAC CONTROL POWER. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.

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NHC Goverment Center 7702-190810

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

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5425 Page Rd
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T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
ELECTRICAL ENLARGED POWER PLANS

DATE:
CURRENT: 2020.11.20
TI GMP SET

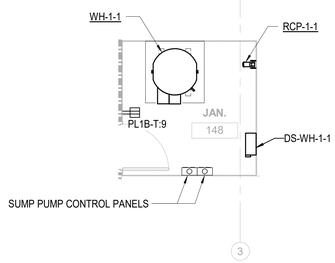
SHEET:
E-301

TI GMP SET

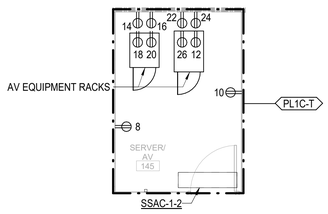
11/19/2020 4:15:24 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLOTTED

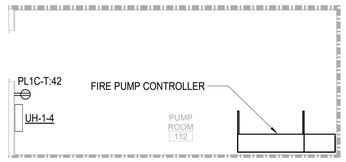
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



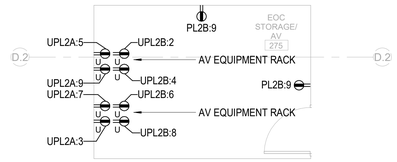
4 / E-302	JAN ROOM - ENLARGED - LEVEL 1 - AREA B	NTS



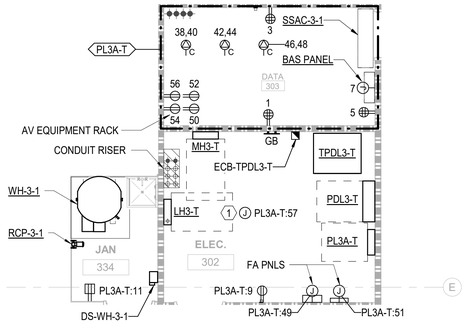
1 / E-302	SERVER - ENLARGED - LEVEL 1 - AREA B	NTS



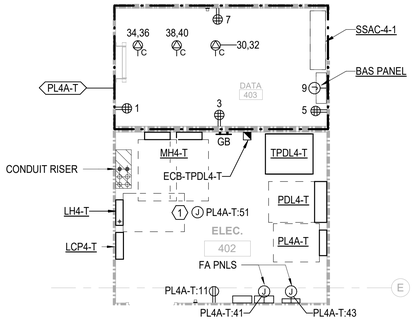
5 / E-302	PUMP ROOM - ENLARGED - LEVEL 1 - AREA B	NTS



2 / E-302	EOC STORAGE/AV - ENLARGED - LEVEL 2 - AREA C	NTS



6 / E-302	ELECTRICAL / JAN / DATA - ENLARGED - LEVEL 3 - AREA B	NTS



3 / E-302	ELECTRICAL ROOM - ENLARGED - LEVEL 4 - AREA B	NTS

KEY NOTES:

1. JUNCTION BOX FOR 120V MISCELLANEOUS HVAC CONTROL POWER. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.

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N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
ELECTRICAL
ENLARGED POWER
PLANS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-302

TI GMP SET

11/19/2020 4:15:28 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

ESB SWITCHBOARD MANUAL TRANSFER SCHEME:

PROVIDE A (3) POSITION OPERATOR SWITCH FOR SELECTING MAIN - OFF - SEC 1.

- SELECTING "OFF" SHALL OPEN ALL BREAKERS AND SHALL BE USED FOR THE MAINTENANCE.
- SELECTING "MAIN" OR "SEC 1" SHALL INITIATE A 5 SECOND DELAY BEFORE THE SELECTED MAIN BREAKERS ARE CLOSED.

MAIN BREAKERS AND TEMPORARY GENERATOR BREAKER SHALL BE ELECTRICALLY OPERATED INSULATED CASE BREAKERS.

MAIN AND TEMPORARY GENERATOR CIRCUIT BREAKERS SHALL BE ELECTRICALLY INTERLOCKED WITH EACH OTHER SO THAT THE TEMPORARY GENERATOR CIRCUIT BREAKER CAN NOT BE CLOSED UNTIL THE MAIN BREAKERS ARE OPEN.

GENERAL NOTES:

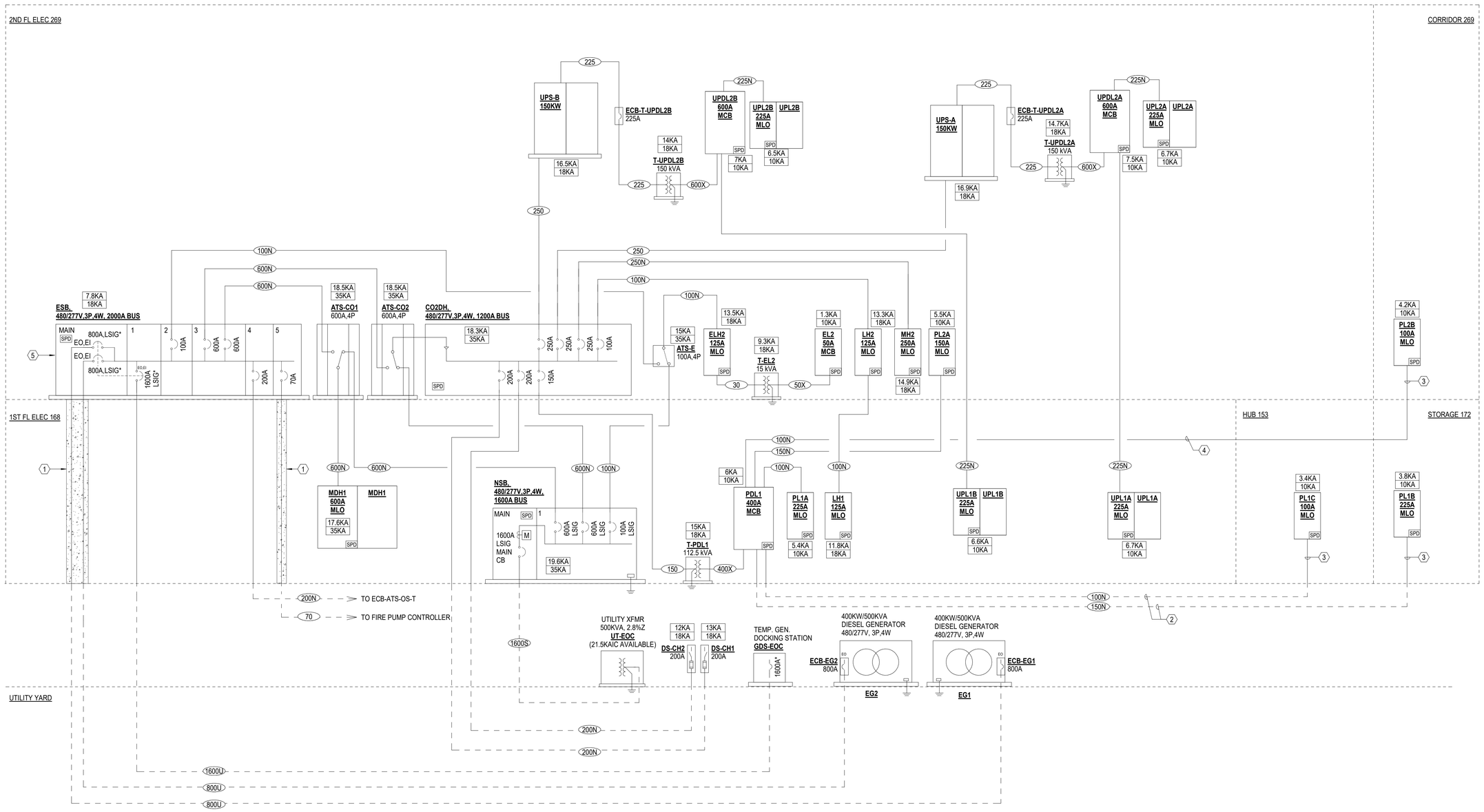
1. CIRCUIT BREAKERS NOTED WITH ASTERISKS (*) SHALL BE LSIG TYPE WITH GROUND FAULT ALARM ONLY.
2. ALL EMERGENCY AND CRITICAL OPERATIONS SYSTEMS OVERCURRENT PROTECTION DEVICES SHALL BE SELECTIVELY COORDINATED. ATS' SHOWN ON THIS DRAWING SERVE EITHER EMERGENCY OR CRITICAL OPERATIONS SYSTEMS.

   BASIS OF DESIGN BREAKERS TO BE UTILIZED:
   480/277V SYSTEM
   GENERATOR BREAKERS = SQUARE D MASTER PACK NW WITH ADJUSTABLE LSI.
   FEEDER BREAKERS 70A TO 600A = SQUARE D L-FRAME MISSION CRITICAL WITH ADJUSTABLE LSI.
   BRANCH BREAKERS UP TO 60A = SQUARE D E-FRAME.
   208/120V SYSTEM
   FEEDER AND MAIN BREAKERS 400A TO 600A = SQUARE D M-FRAME WITH ADJUSTABLE LSI.
   FEEDER AND MAIN BREAKERS 100A TO 250A = SQUARE D J-FRAME MISSION CRITICAL WITH ADJUSTABLE LSI.
3. REFER TO UPS, GENERATOR AND TEMPORARY GENERATOR DOCKING STATION EQUIPMENT SCHEDULES ON ELECTRICAL SCHEDULES SHEETS.

KEY NOTES:

1. RUN FEEDER(S) VERTICALLY ENCASED IN A MINIMUM OF 2 INCHES OF CONCRETE PER NEC REQUIREMENTS.
2. INSTALL FEEDER UNDERGROUND PER NEC ARTICLE 708 REQUIREMENTS.
3. INSTALL ABOVE GRADE/FLOOR VERTICAL FEEDER IN RIGID CONDUIT.
4. INSTALL FEEDER IN CONCRETE SLAB PER NEC ARTICLE 708 REQUIREMENTS.
5. PROVIDE MANUAL TRANSFER SELECTOR SWITCH IN MAIN SWITCHBOARD SECTION WITH THE FOLLOWING FEATURES:
   - MAIN BREAKER(S) SHALL BE ELECTRICALLY OPERATED INSULATED CASE BREAKERS

   SEE MANUAL TRANSFER SWITCH SCHEME DESCRIPTION ON THIS SHEET.



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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL RISER DIAGRAM EOC

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-401

TI GMP SET

11/19/2020 4:15:31 PM

1 E-401 **EOC RISER DIAGRAM**

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLOTTED

FEEDER SIZE SCHEDULE

FEEDER MARK	COPPER CONDUCTORS AND CONDUIT SIZE
20N	4 #12 AND 1 #12 G ~ 0.75" C
20X	4 #12 AND 1 #8 G ~ 0.75" C
20	3 #12 AND 1 #12 G ~ 0.75" C
30N	4 #10 AND 1 #10 G ~ 0.75" C
30X	4 #10 AND 1 #8 G ~ 0.75" C
30	3 #10 AND 1 #10 G ~ 0.75" C
40N	4 #8 AND 1 #10 G ~ 1" C
40	3 #8 AND 1 #10 G ~ 1" C
50N	4 #6 AND 1 #8 G ~ 1.25" C
50X	4 #6 AND 1 #8 G ~ 1.25" C
50	3 #6 AND 1 #8 G ~ 1.25" C
60N	4 #4 AND 1 #8 G ~ 1.25" C
60	3 #4 AND 1 #8 G ~ 1.25" C
70	3 #4 AND 1 #8 G ~ 4" C
70S	4 #4 ~ 4" C
100N	4 #2 AND 1 #8 G ~ 1.5" C
100X	4 #1 AND 1 #6 G ~ 1.5" C
100	3 #2 AND 1 #8 G ~ 1.5" C
125N	4 #1/0 AND 1 #6 G ~ 2" C
125	3 #1/0 AND 1 #6 G ~ 2" C
150N	4 #2/0 AND 1 #6 G ~ 2" C
150X	4 #2/0 AND 1 #4 G ~ 2" C
150	3 #2/0 AND 1 #6 G ~ 2" C
200N	4 #3/0 AND 1 #6 G ~ 2" C
200	3 #3/0 AND 1 #6 G ~ 2" C
225N	4 #4/0 AND 1 #4 G ~ 2.5" C
225X	4 #4/0 AND 1 #2 G ~ 2.5" C
225	3 #4/0 AND 1 #4 G ~ 2.5" C
250N	4 #250 AND 1 #4 G ~ 3" C
250	3 #250 AND 1 #4 G ~ 2.5" C
300N	4-300 kcmil AND 1 #4 G ~ 3" C
300	3-300 kcmil AND 1 #4 G ~ 3" C
350N	4-400 kcmil AND 1 #3 G ~ 3" C
350	3-400 kcmil AND 1 #3 G ~ 3" C
400N	4-500 kcmil AND 1 #3 G ~ 3.5" C
400X	2 SETS (4 #3/0 AND 1 #1/0 G ~ 2.5" C)
400	3-500 kcmil AND 1 #3 G ~ 3.5" C
500N	4-250 kcmil AND 1 #2 G ~ 3" C
600N	2 SETS (4-350 kcmil AND 1 #2/0 G ~ 3" C)
600X	2 SETS (4-350 kcmil AND 1 #2/0 G ~ 3" C)
600	2 SETS (3-350 kcmil AND 1 #2/0 G ~ 3" C)
800U	2 SETS (4-500 kcmil AND 1 #2/0 G ~ 4" C) & (1) SPARE 4" C
800	2 SETS (3-500 kcmil AND 1 #2/0 G ~ 3.5" C)
1000N	3 SETS (4-400 kcmil AND 1 #2/0 G ~ 3.5" C)
1200N	4 SETS (4-350 kcmil AND 1 #3/0 G ~ 3" C)
1200S	4 SETS (4-350 kcmil ~ 4" C) & (2) SPARE 4" C
1600U	6 SETS (4-300 kcmil AND 1 #4/0 G ~ 4" C)
1600S	6 SETS (4-300 kcmil ~ 4" C)
3000S	8 SETS (4-500 kcmil ~ 4" C) & (3) SPARE 4" C
3000U	8 SETS (4-500 kcmil AND 1-400 kcmil G ~ 4" C) & (1) SPARE 4" C

MSB-T SWITCHBOARD MANUAL TRANSFER SCHEME:

PROVIDE A (3) POSITION OPERATOR SWITCH FOR SELECTING MAIN 1 - OFF - MAIN 2.

- SELECTING "OFF" SHALL OPEN ALL MAIN BREAKERS AND SHALL BE USED FOR THE MAINTENANCE.
- SELECTING "MAIN 1" OR "MAIN 2" SHALL INITIATE A 5 SECOND DELAY BEFORE THE SELECTED MAIN BREAKERS ARE CLOSED.

MAIN BREAKERS SHALL BE ELECTRICALLY OPERATED INSULATED CASE BREAKERS.

MAIN AND TEMPORARY GENERATOR CIRCUIT BREAKERS SHALL BE ELECTRICALLY INTERLOCKED WITH EACH OTHER SO THAT THE TEMPORARY GENERATOR CIRCUIT BREAKER CAN NOT BE CLOSED UNTIL THE MAIN BREAKER IS OPEN.

DRY-TYPE TRANSFORMER FEEDER SCHEDULE

kVA	PRIMARY FEEDER MARK	SECONDARY FEEDER MARK	GROUNDING ELECTRODE CONDUCTOR
9	20	30X	#8
15	30	50X	#8
30	50	100X	#6
45	70	150X	#4
75	125	225X	#2
112.5	150	400X	#1/0
150	225	600X	#2/0
225	350	800X	#2/0
300	400	1000X	#3/0
500	800	1600X	#3/0

NOTES:
1. TRANSFORMER FEEDER SIZES BASED ON 480 V, 3-PHASE, DELTA PRIMARY AND 208Y/120 V, 3-PHASE, 4-WIRE SECONDARY.
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED IN METALLIC RACEWAY, MINIMUM SIZE PER NFPA 70, ARTICLE 250.
3. REFER TO FEEDER SIZE SCHEDULE FOR CONDUCTORS AND RACEWAYS.

PANELBOARD DESIGNATION SCHEME: ____

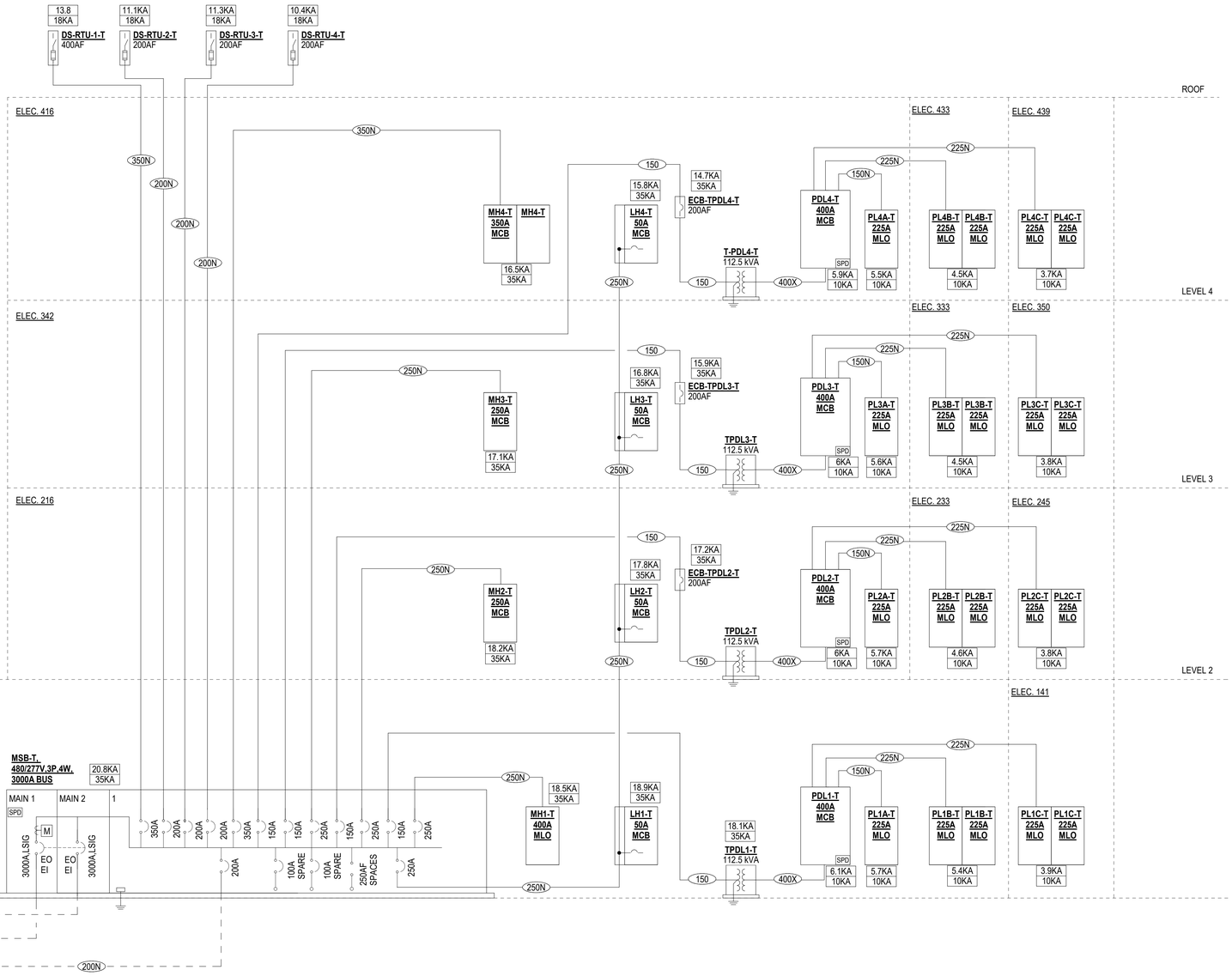
E MH 1 A - T

- E - EMERGENCY
  OS - OPTIONAL STAND-BY
  U - UPS
- M - MECHANICAL EQUIP. PANELBOARD
  P - RECEPTACLE AND EQUIP. PANELBOARD
  L - LIGHTING PANELBOARD
  DP - DISTRIBUTION PANELBOARD
  H - 408Y/277V PANELBOARD
  L - 208Y/120V PANELBOARD
- FLOOR LEVEL (1,2,3,...)
- PANELBOARD SEQUENCE (A,B,C,...)
- T - TOWER BUILDING
  ( ) - EOC BUILDING

KEY NOTES:

1. FIRE PUMP CONTROLLER. FURNISHED AND INSTALLED BY DIV.22.
2. PROVIDE A MANUAL TRANSFER SCHEME FOR THE SWITCHBOARD WITH THE FOLLOWING FEATURES:
   - MAIN BREAKER(S) SHALL BE ELECTRICALLY OPERATED INSULATED CASE BREAKERS

   SEE MANUAL TRANSFER SWITCH SCHEME DESCRIPTION ON THIS SHEET.



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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL RISER DIAGRAM TOWER

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-402

TI GMP SET

11/19/2020 4:15:35 PM

1 / E-402 TOWER BUILDING RISER DIAGRAM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

LIGHTING CONTROL RELAY PANEL "LCP1" SCHEDULE

CONTACTOR	POWER CIRCUIT	LOAD (WATTS)	DESCRIPTION	OVERRIDE SWITCH	CONTROL NOTES
R1	LH1:1	235	EOC EXTERIOR LIGHTING		
R2	LH2:5	2700	EOC 2ND LEVEL HIGH BAY LIGHTING		
R3	LH2:7	500	EOC BUILDING SIGNAGE NORTH		
R4	LH2:9	500	EOC BUILDING SIGNAGE SOUTH		
R5					
R6					
R7					
R8					
R9					
R10					
R11					
R12					
BARRIER BETWEEN NORMAL AND EMERGENCY RELAYS					
ER1	ELH2:1	210	EOC EXTERIOR/VESTIBULE LIGHTING		
ER2					
ER3					
ER4					
ER5					
ER6					
ER7					
ER8					
ER9					
ER10					
ER11					
ER12					

LIGHTING CONTROL RELAY PANEL "LCP4-T" SCHEDULE

CONTACTOR	POWER CIRCUIT	LOAD (WATTS)	DESCRIPTION	CONTROL NOTES
R1			BUILDING SIGNAGE WEST	
R2			BUILDING SIGNAGE SOUTH	
R3			FACADE LIGHTING	
R4				
R5				
R6				
R7				
R8				
R9				
R1				
R11				
R12				

AUTOMATIC TRANSFER SWITCH SCHEDULE

NAME	VOLTAGE	AMPERES	POLES	BYPASS ISOLATION	CLOSED TRANSITION	WITHSTAND RATING, AIC	PRIORITY	LOAD SHED FUNCTIONALITY
ATS-CO1	480 V	600 A	4	Yes	No	35000	1	Yes
ATS-CO2	480 V	600 A	4	Yes	No	35000	1	Yes
ATS-E	480 V	100 A	4	Yes	No	25000	0	No
ATS-OS-T	480 V	100 A	4	No	No	25000	2	Yes

NOTES:
1. 0 IS THE HIGHEST PRIORITY LOAD AND SHALL BE LOADED FIRST AND SHALL NOT BE SHED.
2. CLOSING SEQUENCE OF ATS'S IS DETERMINED BY PRIORITY.

ENGINE GENERATOR SET SCHEDULE

NO.	RATING		VOLTAGE	HZ	RPM	UNIT MOUNTED CIRCUIT BREAKERS				
	KW	KVA				CKT	CIRCUIT BREAKER	EQUIPMENT SERVED	FEEDER MARK	NOTES
EG1	400	500	480Y/277	60	1800	1	800A/3P,LSI	ESB	800N	1,2,3,4,5
EG2	400	500	480Y/277	60	1800	1	800A/3P,LSI	ESB	800N	1,2,3,4,5

NOTES:
1. UNIT MOUNTED CIRCUIT BREAKERS SHALL BE 100% RATED, ELECTRICALLY OPERATED. MANUFACTURER SHALL BE THE SAME AS SWITCHBOARDS.
2. UNIT SHALL BE STANDBY RATED, 3- PHASE, 4 WIRE, WYE CONNECTED.
3. RATING SHALL APPLY AT SITE CONDITIONS OF 1000' ABOVE SEA LEVEL AND AT 110F AMBIENT TEMPERATURE (EXCLUDING ENGINE RADIATION EFFECTS).
4. ENGINE GENERATOR ALTERNATOR SHALL BE SIZED TO LIMIT VOLTAGE DROP TO LESS THAN 15% FOR FIRE PUMP.
5. ENGINE GENERATOR SHALL BE EQUIPPED WITH ON-BOARD PARALLELING CONTROLLER.

UNINTERRUPTIBLE POWER SUPPLY SCHEDULE

DESIGNATON	SYSTEM LOAD INPUT VOLTAGE			BYPASS INPUT VOLTAGE (NOTE 3)			BATTERY		SYSTEM OUTPUT VOLTAGE			OUTPUT KVA	OUTPUT KW	POWER FACTOR
	VOLTS	PHASE	WIRES (NOTE 1)	VOLTS	PHASE	WIRES (NOTE 1)	PROTECT TIME, MINUTES	TYPE	VOLTS	PHASE	WIRES (NOTE 1)			
UPS-A	480	3	3	480	3	3	10	VRLA	480	3	3	160	144	0.9
UPS-B	480	3	3	480	3	3	10	VRLA	480	3	3	160	144	0.9

NOTES:
1. PLUS EQUIPMENT GROUND.
2. SYSTEM EFFICIENCY SHALL BE THE MINIMUM OVERALL AC-TO-AC SYSTEM EFFICIENCY, INPUT-TO-OUTPUT.
3. PROVIDE FLOOR MOUNTED BYPASS CABINET.
4. UPS SIZED TO CARRY FULL UNINTERRUPTIBLE LOAD (N+1 REDUNDANCY).

LIGHTING CONTROL RELAY PANEL "LCP1-T" SCHEDULE

CONTACTOR	POWER CIRCUIT	LOAD (WATTS)	DESCRIPTION	OVERRIDE SWITCH	CONTROL NOTES
R1	LH1-T:1	215	EXTERIOR EMERGENCY LIGHTING		
R2	LH1-T:3	140	EXTERIOR NORMAL LIGHTING		
R3	LH1-T:5	2550	LOBBY A LIGHTING		
R4	LH1-T:7	2020	LOBBY B LIGHTING		
R5	LH2-T:1	1512	LOBBY A HIGH BAY LIGHTING		
R6					
R7					
R8					
R9					
R10					
R11					
R12					

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-501

TI GMP SET

11/19/2020 4:15:44 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 1

NAME	DESCRIPTION	LOAD	CONNECTION INFO VOLTAGE	CONNECTION INFO NUMBER OF POLES	MOTOR INFO QUANTITY	MOTOR INFO HP	HOMERUN INFO PANEL	HOMERUN INFO CIRCUIT	DISCONNECT INFO FUSE	DISCONNECT INFO NEMA ENCLOSURE	STARTER TYPE
S100	TERMINAL UNIT	6.5 kVA	277 V	1			MH2	1		1R	N/A
S101	TERMINAL UNIT	6.5 kVA	277 V	1			MH2	3		1R	N/A
S102	TERMINAL UNIT	1.0 kVA	277 V	1			MH2	5		1R	N/A
S103	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S104	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S105	TERMINAL UNIT	1.5 kVA	277 V	1			MH2	7		1R	N/A
S106	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S107	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S108	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S109	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S110	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S111	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S112	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	9		1R	N/A
S113	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S114	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S115	TERMINAL UNIT	13.0 kVA	480 V	2			MH2	11,13		1R	N/A
S116	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S117	TERMINAL UNIT	5.0 kVA	277 V	1			MH1-T	7		1R	N/A
S118	TERMINAL UNIT	2.5 kVA	277 V	1			MH1-T	9		1R	N/A
S119	TERMINAL UNIT	11.0 kVA	277 V	1			MH1-T	11		1R	N/A
S120	TERMINAL UNIT	0.2 kVA	120 V	1			PL1C-T	39		1R	N/A
S121	TERMINAL UNIT	5.0 kVA	277 V	1			MH1-T	13		1R	N/A
S122	TERMINAL UNIT	0.2 kVA	120 V	1			PL1C-T	39		1R	N/A
S123	TERMINAL UNIT	0.2 kVA	120 V	1			PL1C-T	39		1R	N/A
S124	TERMINAL UNIT	8.0 kVA	277 V	1			MH1-T	15		1R	N/A
S125	TERMINAL UNIT	14.0 kVA	480 V	2			MH1-T	17,19		1R	N/A
S126	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S127	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S128	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S129	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	35		1R	N/A
S130	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	35		1R	N/A
S131	TERMINAL UNIT	1.0 kVA	277 V	1			MH1-T	21		1R	N/A
S132	TERMINAL UNIT	0.2 kVA	120 V	1			PL1C-T	39		1R	N/A
S133	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S134	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S135	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	35		1R	N/A
S136	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	37		1R	N/A
S137	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	37		1R	N/A
S138	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	35		1R	N/A
S139	TERMINAL UNIT	5.0 kVA	277 V	1			MH1-T	23		1R	N/A
S140	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S141	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S142	TERMINAL UNIT	2.5 kVA	277 V	1			MH1-T	25		1R	N/A
S143	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S144	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S145	TERMINAL UNIT	10.0 kVA	277 V	1			MH1-T	27		1R	N/A
S146	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S147	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S150	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	37		1R	N/A

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 2

NAME	DESCRIPTION	LOAD	CONNECTION INFO VOLTAGE	CONNECTION INFO NUMBER OF POLES	MOTOR INFO QUANTITY	MOTOR INFO HP	HOMERUN INFO PANEL	HOMERUN INFO CIRCUIT	DISCONNECT INFO FUSE	DISCONNECT INFO NEMA ENCLOSURE	STARTER TYPE
S200	TERMINAL UNIT	1.0 kVA	277 V	1			MH2	15		1R	N/A
S201	TERMINAL UNIT	1.0 kVA	277 V	1			MH2	17		1R	N/A
S202	TERMINAL UNIT	3.0 kVA	277 V	1			MH2	19		1R	N/A
S203	TERMINAL UNIT	2.5 kVA	277 V	1			MH2	21		1R	N/A
S204	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	23		1R	N/A
S205	TERMINAL UNIT	2.5 kVA	277 V	1			MH2	25		1R	N/A
S206	TERMINAL UNIT	3.0 kVA	277 V	1			MH2	27		1R	N/A
S207	TERMINAL UNIT	6.5 kVA	277 V	1			MH2	29		1R	N/A
S208	TERMINAL UNIT	7.0 kVA	277 V	1			MH2	31		1R	N/A
S209	TERMINAL UNIT	3.0 kVA	277 V	1			MH2	33		1R	N/A
S210	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	35		1R	N/A
S211	TERMINAL UNIT	1.0 kVA	277 V	1			MH2	37		1R	N/A
S212	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	39		1R	N/A
S213	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	41		1R	N/A
S214	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	43		1R	N/A
S215	TERMINAL UNIT	3.0 kVA	277 V	1			MH2	45		1R	N/A
S216	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	47		1R	N/A
S217	TERMINAL UNIT	4.0 kVA	277 V	1			MH2-T	1		1R	N/A
S218	TERMINAL UNIT	4.5 kVA	277 V	1			MH2-T	3		1R	N/A
S219	TERMINAL UNIT	4.0 kVA	277 V	1			MH2-T	5		1R	N/A
S220	TERMINAL UNIT	4.5 kVA	277 V	1			MH2-T	7		1R	N/A
S221	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S222	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S223	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S224	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S225	TERMINAL UNIT	7.0 kVA	277 V	1			MH2-T	9		1R	N/A
S226	TERMINAL UNIT	6.5 kVA	277 V	1			MH2-T	11		1R	N/A
S227	TERMINAL UNIT	4.0 kVA	277 V	1			MH2-T	13		1R	N/A
S228	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S229	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S230	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S231	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S232	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S233	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S234	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S235	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S236	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	43		1R	N/A
S237	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A
S238	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A
S239	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A
S240	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	43		1R	N/A
S241	TERMINAL UNIT	1.5 kVA	277 V	1			MH2-T	15		1R	N/A
S242	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	43		1R	N/A
S243	TERMINAL UNIT	2.0 kVA	277 V	1			MH2-T	17		1R	N/A
S244	TERMINAL UNIT	5.0 kVA	277 V	1			MH2-T	19		1R	N/A
S245	TERMINAL UNIT	6.0 kVA	277 V	1			MH2-T	21		1R	N/A
S246	TERMINAL UNIT	3.0 kVA	277 V	1			MH2-T	23		1R	N/A
S247	TERMINAL UNIT	0.2 kVA	120 V	1			PL2C-T	31		1R	N/A
S248	TERMINAL UNIT	0.2 kVA	120 V	1			PL2C-T	31		1R	N/A
S249	TERMINAL UNIT	0.2 kVA	120 V	1			PL2C-T	31		1R	N/A
S250	TERMINAL UNIT	1.0 kVA	277 V	1			MH2-T	25		1R	N/A
S251	TERMINAL UNIT	0.2 kVA	120 V	1			PL2C-T	31		1R	N/A
S252	TERMINAL UNIT	11.0 kVA	277 V	1			MH2-T	27		1R	N/A
S253	TERMINAL UNIT	13.0 kVA	480 V	2			MH2-T	29,31		1R	N/A
S254	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A
S255	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

NAME	DESCRIPTION	LOAD	CONNECTION INFO VOLTAGE	CONNECTION INFO NUMBER OF POLES	MOTOR INFO QUANTITY	MOTOR INFO HP	HOMERUN INFO PANEL	HOMERUN INFO CIRCUIT	DISCONNECT INFO FUSE	DISCONNECT INFO NEMA ENCLOSURE	STARTER TYPE
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	2		BY OTHER DISCIPLINE	VFD
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	3		BY OTHER DISCIPLINE	VFD
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	4		BY OTHER DISCIPLINE	VFD
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	5		BY OTHER DISCIPLINE	VFD
AHU-1-1 ELECTRIC HEAT	AIR HANDLING UNIT	48.0 kVA	480 V	3			MDH1	1		1R	N/A
CH-1-1	CHILLER	202.5 kVA	480 V	3			CO2DH	1		3R	N/A
CH-1-2	CHILLER	0.0 kVA	480 V	3			CO2DH	2		3R	N/A
EF-2-1	EXHAUST FAN	0.8 kVA	120 V	1	1	0.25	PL1A	3		MOTOR TOGGLE SWITCH	N/A
EF-R-1	EXHAUST FAN	6.3 kVA	480 V	3	1	5	MH4-T	22,24,26		BY OTHER DISCIPLINE	FVNR
ELEV-1	ELEVATOR	10.8 kVA	480 V	3	1	10	OSH1-T	7,9,11		3R	N/A
ELEV-2	ELEVATOR	10.8 kVA	480 V	3	1	10	OSH1-T	13,15,17		3R	N/A
ELEV-3	ELEVATOR	10.8 kVA	480 V	3	1	10	OSH1-T	19,21,23		3R	N/A
ERU-1-1 (EXHAUST)	ENERGY RECOVERY UNIT	11.6 kVA	480 V	3	1	10	MDH1	7		BY OTHER DISCIPLINE	VFD
ERU-1-1 (SUPPLY)	ENERGY RECOVERY UNIT	11.6 kVA	480 V	3	1	10	MDH1	6		BY OTHER DISCIPLINE	VFD
FP-1	FIRE PUMP CONTROLLER	40.0 kVA	480 V	3			ESB 36" Main, 277 V/480 V, Three Phase, 4 Wires, Wye	1			
FRP-1-1	GENERATOR FUEL PUMP	0.9 kVA	208 V	3			PL1A	58,60,62		3R	N/A
FTR-1-1	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	6		INTEGRAL	N/A
FTR-1-2	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	6		INTEGRAL	N/A
FTR-1-3	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	7		INTEGRAL	N/A
FTR-1-4	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	7		INTEGRAL	N/A
FTR-1-5	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	8		INTEGRAL	N/A
FTR-1-6	BASEBOARD HEATER	1.5 kVA	277 V	1			MH1-T	37		INTEGRAL	N/A
FTR-1-7	BASEBOARD HEATER	1.5 kVA	277 V	1			MH1-T	37		INTEGRAL	N/A
FTR-1-8	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	33		INTEGRAL	N/A
FTR-1-9	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	35		INTEGRAL	N/A
FTR-1-10	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	35		INTEGRAL	N/A
FTR-1-11	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	39		INTEGRAL	N/A
FTR-1-12	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	39		INTEGRAL	N/A
FTR-1-13	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	41		INTEGRAL	N/A
FTR-1-13	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	41		INTEGRAL	N/A
FTR-1-14	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	43		INTEGRAL	N/A
FTR-1-19	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	43		INTEGRAL	N/A
FTR-1-20	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	45		INTEGRAL	N/A
FTR-1-21	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	45		INTEGRAL	N/A
HT-1	HEAT TRACE	0.3 kVA	120 V	1			PL1A	41		3R	N/A
PCHP-1-1	PUMP	11.6 kVA	480 V	3	1	10	MDH1	2		BY OTHER DISCIPLINE	VFD
PCHP-1-2	PUMP	0.0 kVA	480 V	3	1	10	MDH1	3		BY OTHER DISCIPLINE	VFD
RCP-1-1	CIRCULATING PUMP	0.9 kVA	208 V	2	1	0.3	PL1A-T	39,41		1R	N/A
RCP-1-2	CIRCULATING PUMP	0.9 kVA	120 V	1	1	0.3	PL1A	1		MOTOR TOGGLE SWITCH	N/A
RCP-3-1	CIRCULATING PUMP	0.5 kVA	120 V	1	1	0.125	PL3A-T	43		MOTOR TOGGLE SWITCH	N/A
RTU-R-1	ROOFTOP UNIT	253.2 kVA	480 V	3			MSB-T	3		3R	N/A
RTU-R-2	ROOFTOP UNIT	156.9 kVA	480 V	3			MSB-T	4		3R	N/A
RTU-R-3	ROOFTOP UNIT	156.9 kVA	480 V	3			MSB-T	5		3R	N/A
RTU-R-4	ROOFTOP UNIT	156.9 kVA	480 V	3			MSB-T	6		3R	N/A
SCHP-1-1	PUMP	11.6 kVA	480 V	3	1	10	MDH1	4		BY OTHER DISCIPLINE	VFD
SCHP-1-2	PUMP	0.0 kVA	480 V	3	1	10	MDH1	5		BY OTHER DISCIPLINE	VFD
SP-1-1	ELEVATOR SUMP PUMP	1.2 kVA	120 V	1	1	0.5	OS1-T	9		CNTRL PNL	N/A
SP-1-2	ELEVATOR SUMP PUMP	2.5 kVA	208 V	3	1	1.5	OS1-T	11,13,15		CNTRL PNL	N/A
SSAC-1-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	6		3R	N/A
SSAC-1-2	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	4		3R	N/A
SSAC-1-3	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	5		3R	N/A
SSAC-1-4	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	6		3R	N/A
SSAC-2-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	7		3R	N/A
SSAC-2-2	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	8		3R	N/A
SSAC-2-3	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	9		3R	N/A
SSAC-2-4	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	7		3R	N/A
SSAC-3-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	8		3R	N/A
SSAC-4-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	9		3R	N/A
UH-1-1	UNIT HEATER	4.0 kVA	277 V	1			MH1-T	29		1R	N/A
UH-1-2	UNIT HEATER	4.0 kVA	277 V	1			MH1-T	31		1R	N/A
UH-1-3	UNIT HEATER	4.0 kVA	277 V	1			MH2	49		1R	N/A
UH-1-4	UNIT HEATER	1.5 kVA	120 V	1			PL1C-T	41		1R	N/A
UH-1-5	UNIT HEATER	1.5 kVA	120 V	1			PL1A	39		1R	N/A
WBP-1-1	BOOSTER PUMPS	4.8 kVA	480 V	3	2	3	MH1-T	1,3,5		1R	N/A
WH-1-1	WATER HEATER	30.0 kVA	480 V	3			MH1-T	47,49,51		1R	N/A
WH-1-2	WATER HEATER	54.0 kVA	480 V	3			MDH1	1		1R	N/A
WH-3-1	WATER HEATER	18.0 kVA	480 V	3			MH3-T	47,49,51		1R	N/A

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES:

1. STARTER:

FVNR - FULL VOLTAGE NON-REVERSING, COMBINATION MOTOR CONTROLLER/DISCONNECT
Y-D - REDUCED VOLTAGE WYE-DELTA STARTER. COMBINATION MOTOR CONTROLLER/DISCONNECT
2SP - 2 SPEED STARTER, COMBINATION CONTROLLER/DISCONNECT
VFD - VARIABLE FREQUENCY DRIVE

2. STARTERS WILL BE FURNISHED UNDER OTHER DIVISIONS OF THIS WORK AND MOUNTED AND INSTALLED BY DIVISION 26. COORDINATE THE LOCATIONS OF STARTERS OR OTHER CONTROL DEVICES WITH THE EQUIPMENT BEING CONTROLLED, AND IN ACCORDANCE WITH NFPA 70 - 2014. THE INSTALLED LOCATION OF MOTORS, EQUIPMENT, AND ASSOCIATEDDUCTWORK SHALL BE CONSIDERED TO ENSURE CLEARANCE, ACCESS, AND SIGHT REQUIREMENTS.

3. SEE ELECTRICAL EQUIPMENT SCHEDULES FOR CIRCUIT OCPD, CONDUCTOR, AND RACEWAY SIZES.

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-502

TI GMP SET

11/19/2020 4:15:49 PM

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 4

NAME	DESCRIPTION	LOAD	CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT INFO		STARTER TYPE
			VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT	FUSE	NEMA ENCLOSURE	
S400	TERMINAL UNIT	5.5 kVA	277 V	1			MH4-T	1	NF	1R	N/A
S401	TERMINAL UNIT	2.5 kVA	277 V	1			MH4-T	3	NF	1R	N/A
S402	TERMINAL UNIT	3.5 kVA	277 V	1			MH4-T	5	NF	1R	N/A
S403	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	7	NF	1R	N/A
S404	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	9	NF	1R	N/A
S405	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	11	NF	1R	N/A
S406	TERMINAL UNIT	5.5 kVA	277 V	1			MH4-T	13	NF	1R	N/A
S407	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	15	NF	1R	N/A
S408	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	17	NF	1R	N/A
S409	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	19	NF	1R	N/A
S410	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	21	NF	1R	N/A
S411	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	23	NF	1R	N/A
S412	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	25	NF	1R	N/A
S413	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	27	NF	1R	N/A
S414	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	29	NF	1R	N/A
S415	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	31	NF	1R	N/A
S416	TERMINAL UNIT	3.5 kVA	277 V	1			MH4-T	33	NF	1R	N/A
S417	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	35	NF	1R	N/A
S418	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	37	NF	1R	N/A
S419	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	39	NF	1R	N/A
S420	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	41	NF	1R	N/A
S421	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	2	NF	1R	N/A
S422	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	4	NF	1R	N/A
S423	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	6	NF	1R	N/A
S424	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	43	NF	1R	N/A
S425	TERMINAL UNIT	3.0 kVA	277 V	1			MH4-T	45	NF	1R	N/A
S426	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	8	NF	1R	N/A
S427	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	10	NF	1R	N/A
S428	TERMINAL UNIT	3.0 kVA	277 V	1			MH4-T	47	NF	1R	N/A
S429	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	12	NF	1R	N/A
S430	TERMINAL UNIT	3.5 kVA	277 V	1			MH4-T	49	NF	1R	N/A
S431	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	14	NF	1R	N/A
S432	TERMINAL UNIT	3.0 kVA	277 V	1			MH4-T	16	NF	1R	N/A
S433	TERMINAL UNIT	3.5 kVA	277 V	1			MH4-T	18	NF	1R	N/A
S434	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	51	NF	1R	N/A
S435	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	53	NF	1R	N/A
S436	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	55	NF	1R	N/A
S437	TERMINAL UNIT	6.5 kVA	277 V	1			MH4-T	57	NF	1R	N/A
S438	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	59	NF	1R	N/A
S439	TERMINAL UNIT	3.0 kVA	277 V	1			MH4-T	61	NF	1R	N/A
S440	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	63	NF	1R	N/A
S441	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	65	NF	1R	N/A
S442	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	67	NF	1R	N/A
S443	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	69	NF	1R	N/A
S444	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	71	NF	1R	N/A
S445	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	73	NF	1R	N/A
S446	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	75	NF	1R	N/A
S447	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	77	NF	1R	N/A
S448	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	79	NF	1R	N/A
S449	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	81	NF	1R	N/A
S450	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	83	NF	1R	N/A
S451	TERMINAL UNIT	2.5 kVA	277 V	1			MH4-T	44	NF	1R	N/A
S452	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	46	NF	1R	N/A
S453	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	48	NF	1R	N/A
S454	TERMINAL UNIT	0.2 kVA	120 V	1			PL4A-T	45	NF	1R	N/A
S455	TERMINAL UNIT	0.2 kVA	120 V	1			PL4A-T	45	NF	1R	N/A

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 3

NAME	DESCRIPTION	LOAD	CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT INFO		STARTER TYPE
			VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT	FUSE	NEMA ENCLOSURE	
S300	TERMINAL UNIT	4.0 kVA	277 V	1			MH3-T	1		1R	N/A
S301	TERMINAL UNIT	2.0 kVA	277 V	1			MH3-T	3		1R	N/A
S302	TERMINAL UNIT	3.5 kVA	277 V	1			MH3-T	5		1R	N/A
S303	TERMINAL UNIT	3.0 kVA	277 V	1			MH3-T	7		1R	N/A
S304	TERMINAL UNIT	4.0 kVA	277 V	1			MH3-T	9		1R	N/A
S305	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S306	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S307	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S308	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S309	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S310	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S311	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S312	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S313	TERMINAL UNIT	4.5 kVA	277 V	1			MH3-T	11		1R	N/A
S314	TERMINAL UNIT	4.5 kVA	277 V	1			MH3-T	13		1R	N/A
S315	TERMINAL UNIT	1.5 kVA	277 V	1			MH3-T	15		1R	N/A
S316	TERMINAL UNIT	6.0 kVA	277 V	1			MH3-T	17		1R	N/A
S317	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S318	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S319	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S320	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S321	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S322	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S323	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S324	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A
S325	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S326	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S327	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A
S328	TERMINAL UNIT	2.0 kVA	277 V	1			MH3-T	19		1R	N/A
S329	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	21		1R	N/A
S330	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	23		1R	N/A
S331	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A
S332	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	25		1R	N/A
S333	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	27		1R	N/A
S334	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S335	TERMINAL UNIT	1.5 kVA	277 V	1			MH3-T	29		1R	N/A
S336	TERMINAL UNIT	2.0 kVA	277 V	1			MH3-T	31		1R	N/A
S337	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A
S338	TERMINAL UNIT	3.5 kVA	277 V	1			MH3-T	33		1R	N/A
S339	TERMINAL UNIT	4.0 kVA	277 V	1			MH3-T	35		1R	N/A
S340	TERMINAL UNIT	5.5 kVA	277 V	1			MH3-T	37		1R	N/A
S341	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S342	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S343	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S344	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S345	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	39		1R	N/A
S346	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S347	TERMINAL UNIT	3.5 kVA	277 V	1			MH3-T	41		1R	N/A
S348	TERMINAL UNIT	4.0 kVA	277 V	1			MH3-T	43		1R	N/A
S349	TERMINAL UNIT	4.5 kVA	277 V	1			MH3-T	45		1R	N/A
S350	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	47		1R	N/A
S351	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	47		1R	N/A
S352	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

CAPE FEAR FD STONEWATER

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

Newcomb & Boyd
CONSULTANTS AND ENGINEERS
Consulting Engineering Group
5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
ELECTRICAL SCHEDULES

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
E-503

TI GMP SET

11/19/2020 4:15:50 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

DISTRIBUTION PANELBOARD "UPDL2A" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 600 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 600A/3P MCB **LOCATION:** ELECTRICAL 207
WIRE: 4 **SCCR:**

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
1	UPL1A	3	250 A	200 A	39.9 kVA		SEE RISER...
2	UPL2A	3	250 A	200 A	34.3 kVA		SEE RISER...
3	SERVER RACK BUSSWAY (ROW #1)	3	150 A	125 A	17.1 kVA	NOTE 1	125N
4	SERVER RACK BUSSWAY (ROW #2)	3	150 A	125 A	17.1 kVA	NOTE 1	125N
5	SPACE	--	--	--	0.0 kVA	--	--
6	SPACE	--	--	--	0.0 kVA	--	--
7	SPACE	--	--	--	0.0 kVA	--	--
8	SPACE	--	--	--	0.0 kVA	--	--
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 206 A **CONNECTED kVA:** 74.2 kVA
CALCULATED AMPERES: 179 A **CALCULATED kVA:** 64.5 kVA

Notes:
1. 50% DEMAND FACTOR IS APPLIED TO SERVER RACK LOADS AS SERVER RACKS HAVE REDUNDANT FEEDS FROM PANEL "UPDL2B".

DISTRIBUTION PANELBOARD "UPDL2B" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 600 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 600A/3P MCB **LOCATION:** ELECTRICAL 207
WIRE: 4 **SCCR:**

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
1	UPL1B	3	250 A	200 A	18.0 kVA		SEE RISER...
2	UPL2B	3	250 A	200 A	27.4 kVA		SEE RISER...
3	SERVER RACK BUSSWAY (ROW #1)	3	150 A	125 A	17.1 kVA	NOTE 1	125N
4	SERVER RACK BUSSWAY (ROW #2)	3	150 A	125 A	17.1 kVA	NOTE 1	125N
5	SPACE	--	--	--	0.0 kVA	--	--
6	SPACE	--	--	--	0.0 kVA	--	--
7	SPACE	--	--	--	0.0 kVA	--	--
8	SPACE	--	--	--	0.0 kVA	--	--
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 126 A **CONNECTED kVA:** 45.5 kVA
CALCULATED AMPERES: 104 A **CALCULATED kVA:** 37.5 kVA

Notes:
1. 50% DEMAND FACTOR IS APPLIED TO SERVER RACK LOADS AS SERVER RACKS HAVE REDUNDANT FEEDS FROM PANEL "UPDL2A".

DISTRIBUTION PANELBOARD "MDH1" SCHEDULE: SECTION 1

VOLTS: 480/277 Wye **BUS:** 600 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** **LOCATION:** ELECTRICAL 110

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	Load	REMARKS	FEEDER TAG
1	WH-1-2	3	100 A	100 A	54.0 kVA		100
2	VFD-PCHP-1-1 (10 HP)	3	100 A	40 A	11.6 kVA	NOTE 1	40
3	VFD-PCHP-1-2 (10 HP)	3	100 A	40 A	0.0 kVA	NOTE 1	40
4	VFD-SCHP-1-1 (10 HP)	3	100 A	40 A	11.6 kVA	NOTE 1	40
5	VFD-SCHP-1-2 (10 HP)	3	100 A	40 A	0.0 kVA	NOTE 1	40
6	FTR-1-1 & FTR-1-2	1	100 A	20 A	3.0 kVA		20
7	FTR-1-3 & FTR-1-4	1	100 A	20 A	3.0 kVA		20
8	FTR-1-5	1	100 A	20 A	1.5 kVA		20
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 489 A **CONNECTED kVA:** 406.5 kVA
CALCULATED AMPERES: 489 A **CALCULATED kVA:** 406.5 kVA

Notes:
1. 50% DEMAND FACTOR IS APPLIED TO CHILLER LOADS AS ONLY ONE CHILLER WILL OPERATE AT A TIME.

DISTRIBUTION PANELBOARD "MDH1" SCHEDULE: SECTION 2

VOLTS: 480/277 Wye **BUS:** 600 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** **LOCATION:** ELECTRICAL 110

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	Load	REMARKS	FEEDER TAG
1	AHU-1-1 ELECTRIC HEAT	3	100 A	100 A	48.0 kVA		100
2	VFD-AHU-1-1 (20 HP)	3	100 A	50 A	22.4 kVA		50
3	VFD-AHU-1-1 (20 HP)	3	100 A	50 A	22.4 kVA		50
4	VFD-AHU-1-1 (20 HP)	3	100 A	50 A	22.4 kVA		50
5	VFD-AHU-1-1 (20 HP)	3	100 A	50 A	22.4 kVA		50
6	VFD-ERU-1-1 EXHAUST (10 HP)	3	100 A	40 A	11.6 kVA		40
7	VFD-ERU-1-1 SUPPLY (10 HP)	3	100 A	40 A	11.6 kVA		40
8	SPACE	--	--	--	0.0 kVA	--	--
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 194 A **CONNECTED kVA:** 160.9 kVA
CALCULATED AMPERES: 194 A **CALCULATED kVA:** 160.9 kVA

Notes:

DISTRIBUTION PANELBOARD "PDL1" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 400A/3P MCB **LOCATION:** ELECTRICAL 110
WIRE: 4 **SCCR:**

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL1A	3	200 A	31.1 kVA		SEE RISER DIAGRAM
2	PL1B	3	200 A	27.0 kVA		SEE RISER DIAGRAM
3	PL1C	3	100 A	9.7 kVA		SEE RISER DIAGRAM
4	PL2A	3	150 A	10.2 kVA		SEE RISER DIAGRAM
5	PL2B	3	100 A	8.1 kVA		SEE RISER DIAGRAM
6	SSAC-1-1	2	30 A	4.2 kVA		30N
7	SSAC-2-1	2	30 A	4.2 kVA		30N
8	SSAC-2-2	2	30 A	4.2 kVA		30N
9	SSAC-2-3	2	30 A	4.2 kVA		30N
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 285 A 102.8 kVA
CALCULATED AMPERES: 222 A 79.9 kVA

Notes:

SWITCHBOARD "ESB" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 2000 A **MOUNTING:** PAD
PHASES: 3 **LOCATION:** ELECTRICAL 207
WIRE: 4 **SCCR:** 65KAIC

SECTION NUMBER / CIRCUIT NUMBER	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
SECTION MAIN / 1	MAIN (1 OF 2)	3	800 A	800 A	0.0 kVA	LSIG*, EO, EI	SEE RISER...
SECTION MAIN / 2	MAIN (2 OF 2)	3	800 A	800 A	0.0 kVA	LSIG*, EO, EI	SEE RISER...
SECTION 1 / 3	GDS-EOC	3	1600 A	1600 A	0.0 kVA		SEE RISER...
SECTION 2 / 4	ATS-E	3	150 A	100 A	18.0 kVA		SEE RISER...
SECTION 3 / 5	ATS-CO1	3	600 A	600 A	406.5 kVA		SEE RISER...
SECTION 3 / 6	ATS-CO2	3	600 A	600 A	582.3 kVA		SEE RISER...
SECTION 4 / 7	ECB-ATS-OS-T	3	225 A	200 A	38.4 kVA		SEE RISER...
SECTION 5 / 8	FIRE PUMP CONTROLLER	3	100 A	70 A	40.0 kVA		SEE RISER...
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 1223 A **CONNECTED kVA:** 1016.8 kVA
CALCULATED AMPERES: 1162 A **CALCULATED kVA:** 965.8 kVA

Notes:
1. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.
2. CONTROL POWER FOR ELECTRICALLY OPERATED CIRCUIT BREAKERS SHALL BE DERIVED FROM THE CONTROL POWER TRANSFORMERS FROM EACH SOURCE.
3. CIRCUIT BREAKERS NOTED WITH ASTERISKS (*) SHALL BE LSIG TYPE WITH GROUND FAULT ALARM ONLY.

SWITCHBOARD "NSB" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 1600 A **MOUNTING:** PAD
PHASES: 3 **LOCATION:** ELECTRICAL 110
WIRE: 4 **SCCR:** 35KAIC

SECTION NUMBER / CIRCUIT NUMBER	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
SECTION MAIN / 1	MAIN	3	1600 A	1600 A	0.0 kVA	LSIG	SEE RISER DIAGRAM
SECTION 1 / 2	ATS-CO1	3	600 A	600 A	406.5 kVA	LSIG	SEE RISER DIAGRAM
SECTION 1 / 3	ATS-CO2	3	600 A	600 A	582.3 kVA	LSIG	SEE RISER DIAGRAM
SECTION 1 / 4	ATS-E	3	150 A	100 A	18.0 kVA	LSIG	SEE RISER DIAGRAM
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 1129 A **CONNECTED kVA:** 938.4 kVA
CALCULATED AMPERES: 1068 A **CALCULATED kVA:** 887.8 kVA

Notes:
1. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.
2. PROVIDE ARC ENERGY REDUCTION SYSTEM AND POWER MONITOR AT MAIN DEVICE.

DISTRIBUTION PANELBOARD "CO2DH" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 1200 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **LOCATION:** ELECTRICAL 207
WIRE: 4 **SCCR:** 65KAIC

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
1	DS-CH-1-1	3	250 A	250 A	202.5 kVA	NOTE 2	SEE RISER...
2	DS-CH-1-2	3	250 A	250 A	0.0 kVA	NOTE 2	SEE RISER...
3	UPS-A	3	400 A	250 A	108.4 kVA		SEE RISER...
4	UPS-B	3	400 A	250 A	79.7 kVA		SEE RISER...
5	T-PDL1	3	250 A	150 A	102.8 kVA		SEE RISER...
6	MH2	3	250 A	150 A	80.0 kVA		SEE RISER...
7	LH2	3	100 A	100 A	8.9 kVA		SEE RISER...
8	SPACE	--	--	--	0.0 kVA	--	--
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 618 A **CONNECTED kVA:** 513.9 kVA
CALCULATED AMPERES: 557 A **CALCULATED kVA:** 463.3 kVA

Notes:
1. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.
2. 50% DEMAND FACTOR IS APPLIED TO CHILLER LOADS AS ONLY ONE CHILLER WILL OPERATE AT A TIME.

PANEL SCHEDULE LEGEND		
UPDL2A	MDH1	ESB
UPDL2B	MDH1	NSB
	PDL1	CO2DH

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-504

TI GMP SET

11/19/2020 4:15:52 PM

E D C B A

1 2 3 4 5 6

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

PANELBOARD "PL1C" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 100 A | **MOUNTING:** RECESSED
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** HUB 153

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
153 HUB REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	1	0.4						2				
153 HUB REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	3			0.7				4				
153 HUB FB.	2#12 & 1#12G ~ 0.75°C	20 A	1	5					0.7		6				
153 HUB FB.	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.7						8				
153 HUB FB.	2#12 & 1#12G ~ 0.75°C	20 A	1	9			0.7				10				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	11					0.5		12				
152 HUB KITCHEN...	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.5						14				
152 HUB KITCHEN...	2#12 & 1#12G ~ 0.75°C	20 A	1	15			0.5				16				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	17					0.4		18				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.4						20				
152 HUB KITCHEN...	2#12 & 1#12G ~ 0.75°C	20 A	1	21			0.5				22				
152 HUB KITCHEN...	2#12 & 1#12G ~ 0.75°C	20 A	1	23					0.5		24				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	25	0.7						26				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	27			0.7				28				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	29					0.5		30				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	31	0.5						32				
152 HUB KIT. ICE...	2#12 & 1#12G ~ 0.75°C	20 A	1	33			0.2				34				
152 HUB KIT. ICE...	2#12 & 1#12G ~ 0.75°C	20 A	1	35					0.2		36				
268 HUB MEZZ. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	37	0.4						38				
				39							40				
				41							42				
				PHASE TOTALS (kVA):	3.6		3.3		2.8						

CONNECTED AMPERES: 27.0 A | **CONNECTED kVA:** 9.7 kVA
CALCULATED AMPERES: 27.0 A | **CALCULATED kVA:** 9.7 kVA

NOTES:

PANELBOARD "PL2A" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 150 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
277 COFFEE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	1	0.5	0.4					2	1	20 A	2#12 & 1#12G ~ 0.75°C	269 CORR. REC.
277 COFFEE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	3			0.5	0.4			4	1	20 A	2#12 & 1#12G ~ 0.75°C	269 ELECTRICAL REC.
277 COFFEE FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	5					0.5	0.7	6	1	20 A	2#12 & 1#12G ~ 0.75°C	271 SERVER REC
277 COFFEE FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.5	0.5					8	1	20 A	2#12 & 1#12G ~ 0.75°C	271 SERVER SEC-2
277 COFFEE ICE MAKER	2#12 & 1#12G ~ 0.75°C	20 A	1	9			0.2	0.5			10	1	20 A	2#12 & 1#12G ~ 0.75°C	271 SERVER BAS
207 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75°C	20 A	1	11					0.5		12				
287 JCC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.7						14				
287 JCC REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	15			0.5				16				
283 COMMAND REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	17					0.7		18				
283 COMMAND REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.7						20				
284 CITY REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	21			0.5				22				
284 CITY REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	23					0.5		24				
286 CONF. REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	25	0.7						26				
285 CONF. REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	27			0.5				28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
				PHASE TOTALS (kVA):	4.1		3.2		3.0						

CONNECTED AMPERES: 28.4 A | **CONNECTED kVA:** 10.2 kVA
CALCULATED AMPERES: 28.4 A | **CALCULATED kVA:** 10.2 kVA

NOTES:

PANELBOARD "PL2B" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 100 A | **MOUNTING:** RECESSED
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** CORRIDOR 269

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
274 TLT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	1	0.5	0.5					2	1	20 A	2#12 & 1#12G ~ 0.75°C	270 RECEPT. REC.
273 TLT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	3			0.5	0.5			4	1	20 A	2#12 & 1#12G ~ 0.75°C	273, 274 TLT. AUTO FIX.
276 PANTRY REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	5					0.4		6				
267, 270 LOBBY REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	7	1.1						8				
275 EOC STOR. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	9			0.4				10				
278 COPY/PRINT REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	11					0.5		12				
279 EOC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.7						14				
280 JIC REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	15			1.1				16				
281 EPIC REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	17					0.5		18				
281 EPIC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.5						20				
282 CONF. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	21			0.7				22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
				PHASE TOTALS (kVA):	3.4		3.2		1.4						

CONNECTED AMPERES: 22.4 A | **CONNECTED kVA:** 8.1 kVA
CALCULATED AMPERES: 22.4 A | **CALCULATED kVA:** 8.1 kVA

NOTES:

PANELBOARD "PL1A" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
RCP-1-2 (0.3 HP)	2#12 & 1#12G ~ 0.75°C	15 A	1	1	0.9	0.5					2	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
EF-2-1 (0.25 HP)	2#12 & 1#12G ~ 0.75°C	15 A	1	3			0.8	0.5			4	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
166 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	5					0.4	0.5	6	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
165 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.4	0.5					8	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
163 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	9			0.4	0.5			10	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
163 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	11					0.9	0.5	12	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
162, 178,177 BUNK REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.5	0.5					14	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
177 BUNK/LOUNGE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	15			1.1	0.5			16	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
177 BUNK/LOUNGE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	17					1.1	0.5	18	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
161 HVAC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.5	0.5					20	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
168 ELECTRICAL REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	21			0.2	0.5			22	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
EXTERIOR REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	23					0.4	0.5	24	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
UTILITY YARD REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	25	0.9	0.5					26	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
179 TLT, 180 LOCK REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	27			0.5	0.5			28	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
179 TLT, 180 LOCK REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	29					0.4	0.5	30	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
179 TLT. AUTO...	2#12 & 1#12G ~ 0.75°C	20 A	1	31	0.5	0.5					32	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
175 THINK TANK REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	33			1.5	0.5			34	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
110 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75°C	20 A	1	35					0.5	0.5	36	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
153 HUB REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	37	0.5	0.5					38	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
UH-1-5	2#12 & 1#12G ~ 0.75°C	20 A	1	39			1.5	0.3			40	2	50 A	4#6 & 1#6G ~ 1.25°C	GDS-T TWIST LOCK REC.
HEAT TRACE (NOTE 1)	2#12 & 1#12G ~ 0.75°C	20 A	1	41					0.3	0.3	42				
S103-4,106-9	2#12 & 1#12G ~ 0.75°C	20 A	1	43	1.2	0.5					44	1	20 A	2#12 & 1#12G ~ 0.75°C	GDS-T BATT. CHAR.
S110-11,13-14,16	2#12 & 1#12G ~ 0.75°C	20 A	1	45			1.0	0.3			46	2	50 A	4#6 & 1#6G ~ 1.25°C	GDS-EOC TWIST LOCK REC.
BFP HOT BOX	2#10 & 1#10G ~ 1°C	20 A	1	47					0.5	0.3	48				
BFP HOT BOX	2#10 & 1#10G ~ 1°C	20 A	1	49	0.5	0.5					50	1	20 A	2#12 & 1#12G ~ 0.75°C	GDS-EOC BATT. CHAR.
				51				0.5			52	1	20 A	2#12 & 1#12G ~ 0.75°C	161 HVAC BAS PNL.
				53						0.5	54	1	20 A	2#12 & 1#12G ~ 0.75°C	161 HVAC BAS PNL.
				55		0.5					56	1	20 A	2#12 & 1#12G ~ 0.75°C	161 HVAC BAS PNL.
				57				0.3			58				
				59						0.3	60	3	15 A	3#12 & 1#12G ~ 0.75°C	FRP-1-1 (0.5 HP)
				61		0.3					62				
				63							64				
				65							66				
				67							68				
				69							70				
				71							72				
				73							74				
				75							76				
				77							78				
				79							80				
				81							82				
				83							84				
				PHASE TOTALS (kVA):	11.2		11.2		8.6						

CONNECTED AMPERES: 86.3 A | **CONNECTED kVA:** 31.1 kVA
CALCULATED AMPERES: 86.3 A | **CALCULATED kVA:** 31.1 kVA

NOTES:
1. PROVIDE GFPE TYPE CIRCUIT BREAKER.

PANELBOARD "PL1B" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** RECESSED
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** STORAGE 172

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
169 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	1	0.4	0.1					2	2	30 A	2#10 & 1#10G ~ 0.75°C	172 STOR. DRYER
168 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	3			0.4	0.1			4				
170 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	5					0.4	0.2	6	1	20 A	2#12 & 1#12G ~ 0.75°C	172 STOR. WASHER
157, 158 RM. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.7	0.4					8	1	20 A	2#12 & 1#12G ~ 0.75°C	137 ENT, 153 HUB REC.
162, 171 RM. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	9			0.9	0.5			10	1	20 A	2#12 & 1#12G ~ 0.75°C	137 ENT. ADO
159, 160 TLT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	11					0.5	0.5	12	1	20 A	2#12 & 1#12G ~ 0.75°C	159 TLT. AUTO...
159, 160 TLT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.4	0.4					14	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. REC.
161 BUNK REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	15			1.1	1.2			16	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
161 BUNK REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	17					1.1	0.5	18	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
EXTERIOR REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.4	0.5					20	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
171 KITCHEN FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	21			0.5	0.5			22	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
171 KITCHEN FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	23					0.5	0.5	24	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
171 KITCHEN FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	25	0.5	0.5					26	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
171 KITCHEN FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	27			0.5	0.5			28	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
171 KITCHEN ICE...	2#12 & 1#12G ~ 0.75°C	20 A	1	29					0.2	0.5	30	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
171 KITCHEN HOOD	2#12 & 1#12G ~ 0.75°C	20 A	1	31	0.5	0.5					32	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
171 KITCHEN RANGE	2#6 & 1#10G ~ 1°C	40 A	2	33			4.6				34				
				35				4.6			36				
171 KITCHEN REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	37	0.4						38				
171 KITCHEN REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	39			0.7				40				
173 PRIVACY RM. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	41				0.4			42				
174 PRIVACY RM. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	43	0.4						44				
				45							46				
				47							48				
				49							50				
				51							52				
				53							54				
				PHASE TOTALS (kVA):	5.8		11.4		9.8						

CONNECTED AMPERES: 75.0 A | **CONNECTED kVA:** 27.0 kVA
CALCULATED AMPERES: 60.7 A | **CALCULATED kVA:** 21.9 kVA

NOTES:

PANEL SCHEDULE LEGEND		
	PL1C	PL1A
	PL2A	PL1B
	PL2B	

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-505

TI GMP SET

11/19/2020 4:15:55 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

PANELBOARD "LH1" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 125 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 18KA **LOCATION:** ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
EXTERIOR LIGHTING		20 A 1	1	0.2			2			
			3				4			
			5				6			
			7				8			
			9				10			
LTG - LVL 1 CORE		20 A 1	11			2.7	12			
LTG - LVL 1 OFFICES		20 A 1	13	2.2			14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	PHASE TOTALS (kVA):			2.4	0.0	2.7				

CONNECTED AMPERES: 6.1 A **CONNECTED kVA:** 5.1 kVA
CALCULATED AMPERES: 6.1 A **CALCULATED kVA:** 5.1 kVA

NOTES:

PANELBOARD "UPL1B" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	1	0.5			2			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	3		0.5		4			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	5			0.5	6			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	7	0.5			8			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	9		0.5		10			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	11			0.5	12			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	13	0.5			14			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	15		0.5		16			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	17			0.5	18			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	19	0.5			20			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	21		0.5		22			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	23			0.5	24			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	25	0.5			26			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	27		0.5		28			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	29			0.5	30			
170 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	31	0.4			32			
169 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	33		0.4		34			
170 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	35			0.4	36			
153 HUB TV	2#12 & 1#12G ~ 0.75°C	20 A 1	37	0.7			38			
167 911 CALL CENTER...	2#12 & 1#12G ~ 0.75°C	20 A 1	39		1.5		40			
167 911 CALL CN. TV	2#12 & 1#12G ~ 0.75°C	20 A 1	41			0.7	42			
	PHASE TOTALS (kVA):			6.1	6.3	5.6				

CONNECTED AMPERES: 50.0 A **CONNECTED kVA:** 18.0 kVA
CALCULATED AMPERES: 50.0 A **CALCULATED kVA:** 18.0 kVA

NOTES:

PANELBOARD "UPL1A" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
153 HUB TV	2#12 & 1#12G ~ 0.75°C	20 A 1	1	1.5	1.2		2	1 20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
167 911 CALL CENTER...	2#12 & 1#12G ~ 0.75°C	20 A 1	3		1.5		4			
167 911 CALL CN. TV	2#12 & 1#12G ~ 0.75°C	20 A 1	5			1.5	6			
166 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	7	0.4			8			
165 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	9		0.4		10			
164 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	11			0.4	12			
163 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	13	0.7			14			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	15		0.5		16			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	17			1.2	18			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	19	1.2			20			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	21		1.2		22			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	23			1.2	24			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	25	1.2			26			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	27		1.2		28			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	29			1.2	30			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	31	1.2			32			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	33		1.2		34			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	35			1.2	36			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	37	1.2			38			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	39		1.2		40			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	41			1.2	42			
	PHASE TOTALS (kVA):			14.8	12.2	12.9				

CONNECTED AMPERES: 110.8 A **CONNECTED kVA:** 39.9 kVA
CALCULATED AMPERES: 110.8 A **CALCULATED kVA:** 39.9 kVA

NOTES:

PANELBOARD "LH2" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 125 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 18KA **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
LIGHTING EOC MAIN RM		20 A 1	1	2.8			2			
LIGHTING EOC CORE		20 A 1	3		2.4		4			
HUB HIGH BAY...		20 A 1	5			2.7	6			
BLDG SIGNAGE NORTH		20 A 1	7	0.5			8			
BLDG SIGNAGE SOUTH		20 A 1	9		0.5		10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	PHASE TOTALS (kVA):			3.3	2.9	2.7				

CONNECTED AMPERES: 10.8 A **CONNECTED kVA:** 8.9 kVA
CALCULATED AMPERES: 10.8 A **CALCULATED kVA:** 8.9 kVA

NOTES:

PANELBOARD "UPL1B" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	43	0.5			44			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	45		0.5		46			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	47			0.5	48			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	49	0.5			50			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	51		0.5		52			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	53			0.5	54			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	55	0.5			56			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	57		0.5		58			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	59			0.5	60			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	61	0.5			62			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	63		0.5		64			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	65			0.5	66			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	67	0.5			68			
			69				70			
			71				72			
			73				74			
			75				76			
			77				78			
			79				80			
			81				82			
			83				84			
	PHASE TOTALS (kVA):			2.5	2.0	2.0				

CONNECTED AMPERES: 18.0 A **CONNECTED kVA:** 6.5 kVA
CALCULATED AMPERES: 18.0 A **CALCULATED kVA:** 6.5 kVA

NOTES:

PANELBOARD "UPL1A" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	43	1.2			44			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	45		1.2		46			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	47			1.2	48			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	49	1.2			50			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	51		1.2		52			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	53			1.2	54			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	55	1.2			56			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	57		1.2		58			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	59			1.2	60			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	61	1.2			62			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	63		1.2		64			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	65			1.2	66			
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A 1	67	1.2			68			
			69				70			
			71				72			
			73				74			
			75				76			
			77				78			
			79				80			
			81				82			
			83				84			
	PHASE TOTALS (kVA):			6.2	4.9	4.9				

CONNECTED AMPERES: 44.4 A **CONNECTED kVA:** 16.0 kVA
CALCULATED AMPERES: 44.4 A **CALCULATED kVA:** 16.0 kVA

NOTES:

PANELBOARD "EL2" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 100 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 50A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
279, 287 FS DAMPER	2#12 & 1#12G ~ 0.75°C	20 A 1	1	0.6			2			
271 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75°C	20 A 1	3		0.5		4			
EG2 LIGHTS, REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	5			0.5	6			
EG2 JACKET WATER HEATER	2#10 & 1#10G ~ 0.75°C	30 A 2	7	3.1			8			
			9		3.1		10			
EG2 BATT. CHAR.	2#12 & 1#12G ~ 0.75°C	20 A 1	11			0.5	12			
EG1 LIGHTS, REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	13	0.5			14			
EG1 JACKET WATER HEATER	2#10 & 1#10G ~ 0.75°C	30 A 2	15		3.1		16			
			17			3.1	18			
EG1 BATT. CHAR.	2#12 & 1#12G ~ 0.75°C	20 A 1	19	0.5			20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	PHASE TOTALS (kVA):			4.7	6.7	4.1				

CONNECTED AMPERES: 43.2 A **CONNECTED kVA:** 15.6 kVA
CALCULATED AMPERES: 43.2 A **CALCULATED kVA:** 15.6 kVA

NOTES:

PANELBOARD "ELH2" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 125 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 18KA **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
			1	4.7			2			
T-EL2	SEE RISER DIAGRAM	30 A 3	3		6.7		4			
			5			4.1	6			
EXTERIOR LIGHTING		20 A 1	7	0.2			8			
LIGHTING STAIR 3		20 A 1	9		0.1		10			
LIGHTING EOC LVL 1		20 A 1	11			1.2	12			
LTG - HUB		20 A 1	13	0.1			14			
LIGHTING EOC LVL 2		20 A 1	15		0.8		16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	PHASE TOTALS (kVA):			5.0	7.7	5.3				

CONNECTED AMPERES: 21.6 A **CONNECTED kVA:** 18.0 kVA
CALCULATED AMPERES: 21.6 A **CALCULATED kVA:** 18.0 kVA

NOTES:

PANEL SCHEDULE LEGEND		
LH1	UPL1B	UPL1A
LH2	UPL1B	UPL1A
	EL2	ELH2

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CAPE FEAR FD STONEWATER

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-506

TI GMP SET

11/19/2020 4:15:58 PM

E D C B A

1 2 3 4 5 6

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

PANELBOARD "UPL2B" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
279 EOC REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	43	0.7			44			
279 EOC REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	45		0.5		46			
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	47			0.7	48			
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	49	0.7			50			
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	51		0.7		52			
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	53			0.7	54			
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	55	0.4			56			
279 EOC TV	2#12 & 1#12G ~ 0.75"C	20 A 1	57		0.7		58			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	59			1.4	60			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	61	1.4			62			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	63		1.4		64			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	65			1.4	66			
280 JIC, 281 JIC TV	2#12 & 1#12G ~ 0.75"C	20 A 1	67	1.5			68			
284 CITY FB	2#12 & 1#12G ~ 0.75"C	20 A 1	69		0.7		70			
285 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A 1	71			0.4	72			
286 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A 1	73	0.4			74			
287 JCC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	75		1.1		76			
			77				78			
			79				80			
			81				82			
			83				84			
	PHASE TOTALS (kVA):			5.0	5.2	4.6				

CONNECTED AMPERES: 41.0 A | **CONNECTED kVA:** 14.8 kVA
CALCULATED AMPERES: 41.0 A | **CALCULATED kVA:** 14.8 kVA

NOTES:

PANELBOARD "UPL2A" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
271 RECEPT. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	1	0.4			2			
275 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A 1	3		1.5		4			
275 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A 1	5			1.5	6			
275 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A 1	7	1.5			8			
275 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A 1	9		1.5		10			
278 COPY/PRINT REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	11			0.2	12			
278 COPY/PRINT REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	13	0.2			14			
279 EOC REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	15		0.7		16			
280 JIC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	17			0.7	18			
281 EPIC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	19	0.7			20			
282 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A 1	21		0.4		22			
283 CMD FB	2#12 & 1#12G ~ 0.75"C	20 A 1	23			0.7	24			
285 SELECTIVE SIGNAL	2#12 & 1#12G ~ 0.75"C	20 A 1	25	0.2			26			
286 CONF, 287 JCC TV	2#12 & 1#12G ~ 0.75"C	20 A 1	27		1.5		28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	PHASE TOTALS (kVA):			11.4	12.3	10.6				

CONNECTED AMPERES: 95.2 A | **CONNECTED kVA:** 34.3 kVA
CALCULATED AMPERES: 76.9 A | **CALCULATED kVA:** 27.7 kVA

NOTES:

PANELBOARD "MH2" SCHEDULE

VOLTS: 480/277 Wye | **BUS:** 250 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 18KA | **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
S100	2#8 & 1#10G~0.75"C	35 A 1	1	6.5 0.0			2	1 20 A	--	SPARE
S101	2#8 & 1#10G~0.75"C	35 A 1	3		6.5 0.0		4	1 20 A	--	SPARE
S102	2#12 & 1#12G~0.75"C	15 A 1	5			1.0 0.0	6	1 20 A	--	SPARE
S105	2#12 & 1#12G~0.75"C	15 A 1	7	1.5 0.0			8	1 20 A	--	SPARE
S112	2#12 & 1#12G~0.75"C	15 A 1	9		2.0 0.0		10	1 20 A	--	SPARE
S115	2#6 & 1#8G~1.25"C	45 A 2	11			6.5 0.0	12	1 20 A	--	SPARE
			13	6.5 0.0			14	1 20 A	--	SPARE
S200	2#12 & 1#12G~0.75"C	15 A 1	15		1.0 0.0		16	1 20 A	--	SPARE
S201	2#12 & 1#12G~0.75"C	15 A 1	17			1.0 0.0	18	1 20 A	--	SPARE
S202	2#12 & 1#12G~0.75"C	20 A 1	19	3.0 0.0			20	1 20 A	--	SPARE
S203	2#12 & 1#12G~0.75"C	15 A 1	21		2.5 0.0		22	1 20 A	--	SPARE
S204	2#12 & 1#12G~0.75"C	15 A 1	23			2.0 0.0	24	1 20 A	--	SPARE
S205	2#12 & 1#12G~0.75"C	15 A 1	25	2.5 0.0			26	-- --	--	SPACE
S206	2#12 & 1#12G~0.75"C	20 A 1	27		3.0 0.0		28	-- --	--	SPACE
S207	2#8 & 1#10G~0.75"C	35 A 1	29			6.5 0.0	30	-- --	--	SPACE
S208	2#8 & 1#10G~0.75"C	40 A 1	31	7.0 0.0			32	-- --	--	SPACE
S209	2#12 & 1#12G~0.75"C	20 A 1	33		3.0 0.0		34	-- --	--	SPACE
S210	2#12 & 1#12G~0.75"C	15 A 1	35			2.0 0.0	36	-- --	--	SPACE
S211	2#12 & 1#12G~0.75"C	15 A 1	37	1.0 0.0			38	-- --	--	SPACE
S212	2#12 & 1#12G~0.75"C	15 A 1	39		2.0 0.0		40	-- --	--	SPACE
S213	2#12 & 1#12G~0.75"C	15 A 1	41			2.0 0.0	42	-- --	--	SPACE
S214	2#12 & 1#12G~0.75"C	15 A 1	43	2.0 0.0			44	-- --	--	SPACE
S215	2#12 & 1#12G~0.75"C	20 A 1	45		3.0 0.0		46	-- --	--	SPACE
S216	2#12 & 1#12G~0.75"C	15 A 1	47			2.0 0.0	48	-- --	--	SPACE
UH-1-3	2#12 & 1#12G~0.75"C	20 A 1	49	4.0 0.0			50	-- --	--	SPACE
SPACE	--	-- --	51		0.0 0.0		52	-- --	--	SPACE
SPACE	--	-- --	53			0.0 0.0	54	-- --	--	SPACE
	PHASE TOTALS (kVA):			34.0	23.0	23.0				

CONNECTED AMPERES: 96.2 A | **CONNECTED kVA:** 80.0 kVA
CALCULATED AMPERES: 96.2 A | **CALCULATED kVA:** 80.0 kVA

NOTES:

PANELBOARD "UPL2A" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
279 EOC REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	43	0.4 1.4			44	1 20 A	2#12 & 1#12G ~ 0.75"C	279 EOC LARGE...
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	45		0.7 0.4		46	1 20 A	2#12 & 1#12G ~ 0.75"C	279 EOC FB
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	47			0.7	48			
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	49	0.7			50			
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	51		0.7		52			
279 EOC TV	2#12 & 1#12G ~ 0.75"C	20 A 1	53			0.7	54			
279 EOC TV	2#12 & 1#12G ~ 0.75"C	20 A 1	55	1.5			56			
269 CORR. TV	2#12 & 1#12G ~ 0.75"C	20 A 1	57		0.7		58			
283 CMD, 282 CONF. TV	2#12 & 1#12G ~ 0.75"C	20 A 1	59			1.5	60			
284 CITY FB	2#12 & 1#12G ~ 0.75"C	20 A 1	61	0.7			62			
285 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A 1	63		0.4		64			
286 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A 1	65			0.4	66			
287 JCC FB	2#12 & 1#12G ~ 0.75"C	20 A 1	67	1.1			68			
287 JCC REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	69		1.1		70			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	71			1.4	72			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	73	1.4			74			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	75		1.4		76			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	77			1.4	78			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	79	1.4			80			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	81		1.4		82			
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A 1	83			1.4	84			
	PHASE TOTALS (kVA):			8.5	6.7	7.4				

CONNECTED AMPERES: 63.0 A | **CONNECTED kVA:** 22.7 kVA
CALCULATED AMPERES: 60.8 A | **CALCULATED kVA:** 21.9 kVA

NOTES:

PANELBOARD "UPL2B" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
208 AT&T SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A 2	1	0.1 1.5			2	1 20 A	2#12 & 1#12G ~ 0.75"C	275 AV RACK
			3		0.1 1.5		4	1 20 A	2#12 & 1#12G ~ 0.75"C	275 AV RACK
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A 2	5			0.1 1.5	6	1 20 A	2#12 & 1#12G ~ 0.75"C	275 AV RACK
			7	0.1 1.5			8	1 20 A	2#12 & 1#12G ~ 0.75"C	275 AV RACK
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A 2	9		0.1		10			
			11			0.1	12			
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A 2	13	0.1			14			
			15		0.1		16			
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A 2	17			0.1	18			
			19	0.1			20			
208 SERVICE PROVIDER SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A 2	21		0.1		22			
			23			0.1	24			
208 MISC. SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A 2	25	0.1			26			
			27		0.1		28			
279 EOC REC.	2#12 & 1#12G~0.75"C	20 A 1	29			0.7	30			
280 JIC FB	2#12 & 1#12G~0.75"C	20 A 1	31	0.7			32			
281 EPIC FB	2#12 & 1#12G~0.75"C	20 A 1	33		0.7		34			
282 CONF. FB	2#12 & 1#12G~0.75"C	20 A 1	35			0.4	36			
283 CMD. FB	2#12 & 1#12G ~ 0.75"C	20 A 1	37	0.7			38			
284 CITY, 285 CONF TV	2#12 & 1#12G ~ 0.75"C	20 A 1	39		1.5		40			
280 JIC REC.	2#12 & 1#12G~0.75"C	20 A 1	41			0.7	42			
	PHASE TOTALS (kVA):			9.9	9.3	8.2				

CONNECTED AMPERES: 76.2 A | **CONNECTED kVA:** 27.4 kVA
CALCULATED AMPERES: 59.7 A | **CALCULATED kVA:** 21.5 kVA

NOTES:

PANEL SCHEDULE LEGEND		
	UPL2B	UPL2A
	MH2	UPL2A
		UPL2B

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-507

TI GMP SET

11/19/2020 4:16:01 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

SWITCHBOARD "MSB-T" SCHEDULE

VOLTS: 480/277 Wye
PHASES: 3
WIRE: 4
BUS: 3000 A
SCCR: 65KAIC
MOUNTING: PAD
LOCATION: MAIN ELECT. 104

SECTION NUMBER / CIRCUIT NUMBER	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
SECTION MAIN 1 / 1	MAIN 1	3	3000 A	3000 A	0.0 kVA	LSIG, EL, EO	SEE RISER...
SECTION MAIN 2 / 2	MAIN 2	3	3000 A	3000 A	0.0 kVA	LSIG, EL, EO	SEE RISER...
SECTION 1 / 3	RTU-R-1-T	3	400 A	350 A	253.2 kVA		SEE RISER...
SECTION 1 / 4	RTU-R-2-T	3	250 A	200 A	156.9 kVA		SEE RISER...
SECTION 1 / 5	RTU-R-3-T	3	250 A	200 A	156.9 kVA		SEE RISER...
SECTION 1 / 6	RTU-R-4-T	3	250 A	200 A	156.9 kVA		SEE RISER...
SECTION 1 / 7	ATS-OS-T	3	225 A	200 A	38.4 kVA		SEE RISER...
SECTION 1 / 8	MH4-T	3	400 A	350 A	122.3 kVA		SEE RISER...
SECTION 1 / 9	MH3-T	3	250 A	250 A	86.5 kVA		SEE RISER...
SECTION 1 / 10	MH2-T	3	250 A	250 A	77.0 kVA		SEE RISER...
SECTION 1 / 11	MH1-T	3	250 A	250 A	131.8 kVA		SEE RISER...
SECTION 1 / 12	TPDL1-T	3	250 A	150 A	109.5 kVA		SEE RISER...
SECTION 1 / 13	TPDL2-T	3	250 A	150 A	74.9 kVA		SEE RISER...
SECTION 1 / 14	TPDL3-T	3	250 A	150 A	98.0 kVA		SEE RISER...
SECTION 1 / 15	TPDL4-T	3	250 A	150 A	124.6 kVA		SEE RISER...
SECTION 1 / 16	LH1-T, LH2-T, LH3-T, LH4-T	3	250 A	250 A	32.8 kVA		SEE RISER...
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 1948 A
CALCULATED AMPERES: 1754 A
CONNECTED kVA: 1619.6 kVA
CALCULATED kVA: 1457.9 kVA

Notes:
1. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.
2. CONTROL POWER FOR CIRCUIT BREAKERS SHALL BE DERIVED FROM THE CONTROL POWER TRANSFORMERS FROM EACH SOURCE.
3. PROVIDE ARC ENERGY REDUCTION SYSTEM AND POWER MONITOR AT MAIN SERVICE ENTRANCE DEVICE.

PANELBOARD "OSH1-T" SCHEDULE

VOLTS: 480/277 Wye
PHASES: 3
WIRE: 4
BUS: 250 A
MAIN: MLO
SCCR: 35KA
MOUNTING: SURFACE
SECTIONS: 1
LOCATION:

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				1	1.7			2				
TOSH1-T	3#10 & 1#10G ~ 0.75"C	30 A	3	3		2.5		4				
				5			1.9	6				
				7	3.6			8				
ELEVATOR #1 (NOTE 1)	3#10 & 1#10G ~ 0.75"C	30 A	3	9		3.6		10				
				11			3.6	12				
				13	3.6			14				
ELEVATOR #2 (NOTE 1)	3#10 & 1#10G ~ 0.75"C	30 A	3	15		3.6		16				
				17			3.6	18				
				19	3.6			20				
ELEVATOR #3 (NOTE 1)	3#10 & 1#10G ~ 0.75"C	30 A	3	21		3.6		22				
				23			3.6	24				
				25				26				
				27				28				
				29				30				
				31				32				
				33				34				
				35				36				
				37				38				
				39				40				
				41				42				
				PHASE TOTALS (kVA):	12.5	13.3	12.7					

CONNECTED AMPERES: 46.2 A
CALCULATED AMPERES: 46.2 A
CONNECTED kVA: 38.4 kVA
CALCULATED kVA: 38.4 kVA

NOTES:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER FOR ELEVATOR.

PANELBOARD "OS1-T" SCHEDULE

VOLTS: 120/208 Wye
PHASES: 3
WIRE: 4
BUS: 100 A
MAIN: 50A/3P MCB
SCCR: 10KA
MOUNTING: SURFACE
SECTIONS: 1
LOCATION:

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
ELEV-1 CAB...	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.5			2				
ELEV-2 CAB...	2#12 & 1#12G ~ 0.75"C	20 A	1	3		0.5		4				
ELEV-3 CAB...	2#12 & 1#12G ~ 0.75"C	20 A	1	5			0.5	6				
ELEVATOR PIT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.4			8				
SP-1-1 (0.5 HP)	2#12 & 1#12G ~ 0.75"C	15 A	1	9		1.2		10				
				11			0.8	12				
SP-1-2 (1.5 HP)	3#12 & 1#12G ~ 0.75"C	15 A	3	13	0.8			14				
				15		0.8		16				
ELEVATOR SHAFT REC.	3#12 & 1#12G ~ 0.75"C	20 A	1	17			0.5	18				
				19				20				
				21				22				
				23				24				
				25				26				
				27				28				
				29				30				
				31				32				
				33				34				
				35				36				
				37				38				
				39				40				
				41				42				
				PHASE TOTALS (kVA):	1.7	2.5	1.9					

CONNECTED AMPERES: 16.8 A
CALCULATED AMPERES: 16.8 A
CONNECTED kVA: 6.1 kVA
CALCULATED kVA: 6.1 kVA

NOTES:

PANEL SCHEDULE LEGEND		
		MSB-T
		OSH1-T
		OS1-T

Newcomb & Boyd
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CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.3111 FAX. 910.790.9901
WWW.LS3P.COM

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-508

TI GMP SET

11/19/2020 4:16:03 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

PANELBOARD "PL1A-T" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** RECESSED
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** CALL CENTER 122

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		CKT #	B		CKT #	C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
154H EXAM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.7	0.5							2	1	20 A	2#12 & 1#12G ~ 0.75"C	122 CALL REC.
154F EXAM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.7	0.7					4	1	20 A	2#10 & 1#10G ~ 0.75"C	122 CALL REC.
154J EXAM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5						0.7	0.7		6	1	20 A	2#10 & 1#10G ~ 0.75"C	122 CALL REC.
154G EXAM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.7	0.7							8	1	20 A	2#10 & 1#10G ~ 0.75"C	123 HUB REC.
154I, 156 TLT. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.4	0.5					10	1	20 A	2#12 & 1#12G ~ 0.75"C	123 HUB REC.
154I, 156 TLT. FIXTURES	2#12 & 1#12G ~ 0.75"C	20 A	1	11						1.0	1.1		12	1	20 A	2#10 & 1#10G ~ 0.75"C	121B OFFICE REC.
154D & E NURSE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	13	1.1	0.7							14	1	20 A	2#12 & 1#12G ~ 0.75"C	121B REG. WRKSTN.
125 VAULT REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	15			0.9	0.7					16	1	20 A	2#10 & 1#10G ~ 0.75"C	121B REG. WRKSTN.
125 VAULT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	17						0.7	0.7		18	1	20 A	2#10 & 1#10G ~ 0.75"C	121A SERVICE WRKSTN.
124, 154B REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	19	0.9	0.7							20	1	20 A	2#10 & 1#10G ~ 0.75"C	121A SERVICE WRKSTN.
154A RECEPTION REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	21			1.0	0.7					22	1	20 A	2#10 & 1#10G ~ 0.75"C	121A SERVICE WRKSTN.
154A RECEPTION REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	23						1.3	0.7		24	1	20 A	2#10 & 1#10G ~ 0.75"C	121A SERVICE WRKSTN.
AREA A CORR. REC.	2#6 & 1#6G ~ 0.75"C	20 A	1	25	1.1	1.5							26	1	20 A	2#10 & 1#10G ~ 0.75"C	121A CSTMR. SRV. REC.
155 MULTI. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	27			1.3	1.5					28	1	20 A	2#10 & 1#10G ~ 0.75"C	121A CSTMR. SRV. REC.
155 MULTI. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	29						0.5	0.6		30	1	20 A	2#12 & 1#12G ~ 0.75"C	105 CORR. WC (NOTE 1)
AREA A EXT. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.5								32				
S126-28,133-34	2#12 & 1#12G ~ 0.75"C	20 A	1	33			1.0						34				
S129-30,135,138	2#12 & 1#12G ~ 0.75"C	20 A	1	35						0.8			36				
S136-37,150	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.6								38				
RCP-1-1 (0.3 HP)	2#12 & 1#12G ~ 0.75"C	15 A	2	39			0.4						40				
				41						0.4			42				
100 VEST. ADO	2#10 & 1#10G ~ 0.75"C	20 A	1	43	0.5								44				
121A CSTMR. SRV. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	45			0.7						46				
				47									48				
				49									50				
				51									52				
				53									54				
	PHASE TOTALS (kVA):				10.3			10.6			9.3						

CONNECTED AMPERES: 83.9 A | **CONNECTED kVA:** 30.2 kVA
CALCULATED AMPERES: 64.0 A | **CALCULATED kVA:** 23.1 kVA

NOTES:
1. PROVIDE GFI TYPE CIRCUIT BREAKER.

DISTRIBUTION PANELBOARD "PDL1-T" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 400 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 400A/3P MCB | **LOCATION:**
WIRE: 4 | **SCCR:** 10KA

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL1A-T	3	200 A	30.2 kVA		SEE RISER DIAGRAM
2	PL1B-T	3	200 A	34.1 kVA		SEE RISER DIAGRAM
3	PL1C-T	3	200 A	45.1 kVA		SEE RISER DIAGRAM
4	SPACE	--	--	0.0 kVA	--	--
5	SPACE	--	--	0.0 kVA	--	--
6	SPACE	--	--	0.0 kVA	--	--
7	SPACE	--	--	0.0 kVA	--	--
8	SPACE	--	--	0.0 kVA	--	--
9	SPACE	--	--	0.0 kVA	--	--
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 304 A | 109.5 kVA
CALCULATED AMPERES: 190 A | 68.6 kVA

Notes:

PANELBOARD "LH1-T" SCHEDULE

VOLTS: 480/277 Wye | **BUS:** 100 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 50A/3P MCB | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 35KA | **LOCATION:**

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		CKT #	B		CKT #	C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
LIGHTING		20 A	1	1	0.2								2				
LIGHTING		20 A	1	3			0.1						4				
LIGHTING LOBBY A		20 A	1	5						2.6			6				
LIGHTING LOBBY B		20 A	1	7	2.0								8				
LIGHTING AREA B...		20 A	1	9			3.9						10				
LIGHTING AREA A		20 A	1	11						2.3			12				
LIGHTING AREA B CORE		20 A	1	13	2.9								14				
LIGHTING STAIR 2		20 A	1	15			0.2						16				
LIGHTING STAIR 1		20 A	1	17						0.3			18				
LIGHTING ELEVATOR		20 A	1	19	0.1								20				
				21									22				
				23									24				
				25									26				
				27									28				
				29									30				
				31									32				
				33									34				
				35									36				
				37									38				
				39									40				
				41									42				
	PHASE TOTALS (kVA):				5.2			4.2			5.2						

CONNECTED AMPERES: 17.5 A | **CONNECTED kVA:** 14.6 kVA
CALCULATED AMPERES: 17.5 A | **CALCULATED kVA:** 14.6 kVA

NOTES:

PANELBOARD "PL1C-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 141

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		CKT #	B		CKT #	C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
138 CONF. PROJ.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4	0.2							2	1	20 A	2#12 & 1#12G ~ 0.75"C	140 FITNESS EQUIP.
138 CONF. FB	2#8 & 1#8G ~ 0.75"C	20 A	1	3			1.4	0.5					4	1	20 A	2#12 & 1#12G ~ 0.75"C	140 FITNESS REC.
138 CONF. REC.	2#6 & 1#6G ~ 0.75"C	20 A	1	5						1.6	0.4		6	1	20 A	2#12 & 1#12G ~ 0.75"C	144 STORAGE REC.
139 CONF. PROJ.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.4	0.2							8	1	20 A	2#12 & 1#12G ~ 0.75"C	145 SRVR. REC.
139 CONF. FB	2#10 & 1#10G ~ 0.75"C	20 A	1	9			1.4	0.2					10	1	20 A	2#12 & 1#12G ~ 0.75"C	145 SRVR. REC.
139 CONF. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	11						1.4	1.5		12	1	20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
139 CONF. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	1.1	1.5							14	1	20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
137 TRAIN. PROJ.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.4	1.5					16	1	20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
137 TRAIN. FB	2#10 & 1#10G ~ 0.75"C	20 A	1	17						1.4	1.5		18	1	20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
137 TRAIN. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.7	1.5							20	1	20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
137 TRAIN. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	21			1.2	1.5					22	1	20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
136 TRAIN. PROJ.	2#12 & 1#12G ~ 0.75"C	20 A	1	23						0.4	1.5		24	1	20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
136 TRAIN. FB	2#8 & 1#8G ~ 0.75"C	20 A	1	25	1.4	1.5							26	1	20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
136 TRAIN. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	27			1.0	0.9					28	1	20 A	2#10 & 1#10G ~ 0.75"C	127, 147B CORR. REC.
136 TRAIN. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	29						1.3	0.2		30	1	20 A	2#12 & 1#12G ~ 0.75"C	147B CORR. ICE MKR.
140 FITNESS EQUIP.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.2	0.5							32	1	20 A	2#12 & 1#12G ~ 0.75"C	147B CORR. FRIDGE
140 FITNESS EQUIP.	2#12 & 1#12G ~ 0.75"C	20 A	1	33						0.2	0.4		34	1	20 A	2#12 & 1#12G ~ 0.75"C	147B COUNTER REC.
140 FITNESS EQUIP.	2#12 & 1#12G ~ 0.75"C	20 A	1	35						0.2	1.3		36	1	20 A	2#8 & 1#8G ~ 0.75"C	120B LOBBY REC.
136 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.4	1.5							38	1	20 A	2#8 & 1#8G ~ 0.75"C	120B LOBBY REC.
S120,122-23,132	2#12 & 1#12G ~ 0.75"C	20 A	1	39			0.8	0.9					40	1	20 A	2#8 & 1#8G ~ 0.75"C	AREA B EXT. REC.
UH-1-4	2#12 & 1#12G ~ 0.75"C	20 A	1	41						1.5	0.2		42	1	20 A	2#12 & 1#12G ~ 0.75"C	390 PUMP RM REC.
120B LOBBY DS	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.7								44				
120B LOBBY TV	2#12 & 1#12G ~ 0.75"C	20 A	1	45			0.7						46				
137 TRAIN. FB	2#12 & 1#12G ~ 0.75"C	20 A	1	47						0.7			48				
136 TRAIN. FB	2#12 & 1#12G ~ 0.75"C	20 A	1	49	0.7								50				
120B LOBBY B FB	2#12 & 1#12G ~ 0.75"C	20 A	1	51			0.7						52				
120B LOBBY B FB	2#12 & 1#12G ~ 0.75"C	20 A	1	53						0.7			54				
	PHASE TOTALS (kVA):				13.9			14.7			16.5						

CONNECTED AMPERES: 125.3 A | **CONNECTED kVA:** 45.1 kVA
CALCULATED AMPERES: 85.0 A | **CALCULATED kVA:** 30.6 kVA

NOTES:

PANELBOARD "PL1B-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:**

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		CKT #	B		CKT #	C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
WATER FOUNTAIN	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.6	0.4							2	1	20 A	2#12 & 1#12G ~ 0.75"C	120B LOBBY KIOSK
149, 150 TLT. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	3			1.1	0.4					4	1	20 A	2#12 & 1#12G ~ 0.75"C	120B LOBBY KIOSK
149, 150 TLT. AUTO...	2#12 & 1#12G ~ 0.75"C	20 A	1	5						0.5	0.4		6	1	20 A	2#12 & 1#12G ~ 0.75"C	120B LOBBY KIOSK
127, 146, 147A REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	7	1.1	0.2							8	1	20 A	2#12 & 1#12G ~ 0.75"C	131 MAIN ELEC. REC.
128, 129, 130 TLT. REC	2#10 & 1#10G ~ 0.75"C	20 A	1	9			1.3	0.4					10	1	20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. REC.
128, 130, TLT AUTO...	2#12 & 1#12G ~ 0.75"C	20 A	1	11						0.5	0.4		12	1	20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. REC.
126 CONF. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	1.1	0.4							14	1	20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. REC.
126 CONF. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	15			1.6	0.4					16	1	20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. REC.
131 MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	17						1.6	0.5		18	1	20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. BAS PNL.
132 MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	19	1.6	0.1							20	2	30 A	2#10 & 1#10G ~ 0.75"C	132 COMM. RACK
133 MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	21			1.6	0.1					22				
134 MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	23						1.6	0.1		24	2	30 A	2#10 & 1#10G ~ 0.75"C	132 COMM. RACK
135 MTG. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	25	1.6	0.1							26				
120B LOBBY REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	27			0.7	0.1					28	2	30 A	2#10 & 1#10G ~ 0.75"C	132 COMM. RACK
EAST EXT. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	29						0.5	0.1		30				
131 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.5	0.7							32	1	20 A	2#12 & 1#12G ~ 0.75"C	120B LOBBY B FB
147A, 149 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.4	0.4					34	1	20 A	2#12 & 1#12G ~ 0.75"C	151 AV RACK
132 COMM. PANEL...	2#12 & 1#12G ~ 0.75"C	20 A	1	35						0.5	0.4		36	1	20 A	2#12 & 1#12G ~ 0.75"C	151 AV REC.
S140-41,143-44,146-47	2#12 & 1#12G ~ 0.75"C	20 A	1	37	1.2	0.4							38	1	20 A	2#12 & 1#12G ~ 0.75"C	ELEV. KIOSK/SAM
126 CONF. CREDENZA	2#12 & 1#12G ~ 0.75"C	20 A	1	39			0.4	0.5					40	1	20 A	2#12 & 1#12G ~ 0.75"C	104 MISC. MECH PWR.
131 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	41						0.5			42				
151 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A	1	43	1.5								44				
151 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A	1	45			1.5						46				
151 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A	1	47						1.5			48				
151 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A	1	49	1.5								50				
120B LOBBY B FB	2#12 & 1#12G ~ 0.75"C	20 A	1	51			0.7						52				
120B LOBBY B FB	2#12 & 1#12G ~ 0.75"C	20 A	1	53						0.7			54				
	PHASE TOTALS (kVA):				12.9			11.4			9.8						

CONNECTED AMPERES: 94.6 A | **CONNECTED kVA:** 34.1 kVA
CALCULATED AMPERES: 69.1 A | **CALCULATED kVA:** 24.9 kVA

NOTES:

PANELBOARD "MH1-T" SCHEDULE

VOLTS: 480/277 Wye | **BUS:** 400 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 35KA | **LOCATION:** MAIN ELECT. 104

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		CKT #	B		CKT #	C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				1	1.6	0.0							2	1	20 A	--	SPARE
WBP-1-1 (3 HP)	3#12 & 1#12G~0.75"C	20 A	3	3			1.6	0.0					4	1	20 A	--	SPARE
				5						1.6	0.0		6	1	20 A	--	SPARE
S117	2#10 & 1#10G~0.75"C	30 A	1	7	5.0	0.0							8	1	20 A	--	SPARE
S118	2#12 & 1#12G~0.75"C	15 A	1	9			2.5	0.0					10	1	20 A	--	SPARE
S119	2#4 & 1#8G~1.25"C	60 A	1	11						11.0	0.0		12	1	20 A	--	SPARE
S121	2#10 & 1#10G~0.75"C	30 A	1	13	5.0	0.0							14	1	20 A	--	SPARE
S124	2#6 & 1#8G~1.25"C	45 A	1	15			8.0	0.0					16	1	20 A	--	SPARE
S125	2#6 & 1#8G~1.25"C	50 A	2	17						7.0	0.0		18	1	20 A	--	SPARE
				19	7.0	0.0							20	1	20 A	--	SPARE
S131	2#10 & 1#12G~0.75"C	15 A	1	21			1.0	0.0					22	1	20 A	--	SPARE
S139	2#10 & 1#10G~0.75"C	30 A	1	23						5.0	0.0		24	--	--	--	SPACE
S142	2#12 & 1#12G~0.75"C	15 A	1	25	2.5	0.0							26	--	--	--	SPACE
S145	2#4 & 1#8G~1.25"C	60 A	1	27			10.0	0.0					28	--	--	--	SPACE
UH-1-1	2#12 & 1#12G~0.75"C	20 A	1	29						4.0	0.0		30	--	--	--	SPACE
UH-1-2	2#12 & 1#12G~0.75"C	20 A	1	31	4.0	0.0							32	--	--	--	SPACE
FTR-1-8	2#12 & 1#12G~0.75"C	20 A	1	33			2.0	0.0					34	--	--	--	SPACE
FTR-1-9 & FTR-1-10	2#10 & 1#12G~0.75"C	20 A	1	35						4.0	0.0		36	--	--	--	SPACE
FTR-1-6 & FTR-1-7	2#10 & 1#12G~0.75"C	20 A	1	37	3.0	0.0							38	--	--	--	SPACE
FTR-1-11 & FTR-1-12	2#10 & 1#12G~0.75"C	20 A	1	39			4.0	0.0					40	--	--	--	SPACE
FTR-1-13 & FTR-1-13	2#10 & 1#12G~0.75"C	20 A	1	41						4.0	0.0		42	--	--	--	SPACE
FTR-1-14 & FTR-1-19	2#10 & 1#12G~0.75"C	20 A	1	43	4.0	0.0							44	--	--	--	SPACE
FTR-1-20 & FTR-1-21	2#10 & 1#12G~0.75"C	20 A	1	45			4.0	0.0					46	--	--	--	SPACE
				47						10.0	0.0		48	--	--	--	SPACE
WH-1-1	3#4 & 1#6G~1.25"C	60 A	3	49	10.0	0.0							50	--	--	--	SPACE
				51			10.0	0.0					52	--	--	--	SPACE
SPACE	--	--	--	53						0.0	0.0		54	--	--	--	SPACE
	PHASE TOTALS (kVA):				42.1			43.1			46.6						

CONNECTED AMPERES: 158.5 A | **CONNECTED kVA:** 131.8 kVA
CALCULATED AMPERES: 158.5 A | **CALCULATED kVA:** 131.8 kVA

NOTES:

PANELBOARD "PL1C-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 141

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		CKT #	B		CKT #	C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	55	0.2								56				
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.2						58				
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	59						0.2			60				
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	61	0.2								62				
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	63			0.2						64				
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	65						0.2			66				
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	67	0.2								68				
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	69			0.2						70				
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	71						0.2			72				
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	73	0.2								74				
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	75			0.2						76				
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	77						0.2			78				
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	79	0.2								80				
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	81			0.2						82				
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	83						0.2			84				
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	85	0.2								86				
				87									88				
				89									90				
				91									92				
				93									94				
				95									96				
				97									98				
				99									100				
				101									102				
				103									104				
				105									106				
				107									108				
	PHASE TOTALS (kVA):				1.1			0.9			0.9						

CONNECTED AMPERES: 8.0 A | **CONNECTED kVA:** 2.9 kVA
CALCULATED AMPERES: 8.0 A | **CALCULATED kVA:** 2.9 kVA

NOTES:

PANELBOARD "PL1B-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:**

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		CKT #	B		CKT #	C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				55									56				
				57									58				
				59									60				
				61									62				
				63									64				
				65									66				
				67									68				
				69									70				
				71									72				
				73									74				
				75									76				
				77									78				
				79									80				
				81									82				
				83									84				
				85									86				
				87									88				
				89									90				
				91									92				
				93									94				
				95								

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE FULL SCALE PLOTTING SIZE

PANELBOARD "PL2C-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 245

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
246 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	1	0.7 0.4			2	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
244 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	3		0.7 0.4		4	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
243 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	5			0.7 0.4	6	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
242 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	7	0.7 0.4			8	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
247 WRKRM REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	9		0.9 0.4		10	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
241 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	11			0.7 0.4	12	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
240 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	13	0.7 0.4			14	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
248 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	15		0.7 0.4		16	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
239 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	17			0.7 0.4	18	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
249 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	19	0.7 0.4			20	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
238 OPEN OFFICE FF.	2#12 & 1#12G ~ 0.75°C	20 A 1	21		0.5 0.4		22	1 20 A	2#12 & 1#12G ~ 0.75°C	238 OPEN OFFICE PT.
238 OPEN OFFICE FF.	2#12 & 1#12G ~ 0.75°C	20 A 1	23			0.5 1.1	24	1 20 A	2#10 & 1#10G ~ 0.75°C	AREA A CORR. REC.
FIRE PARTITION WALL	2#12 & 1#12G ~ 0.75°C	20 A 1	25	0.5			26			
FIRE PARTITION WALL	2#12 & 1#12G ~ 0.75°C	20 A 1	27		0.5		28			
220, 239 FS DAMPER	2#12 & 1#12G ~ 0.75°C	20 A 1	29			0.4	30			
S247-49,251	2#12 & 1#12G ~ 0.75°C	20 A 1	31	0.8			32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
			43				44			
			45				46			
			47				48			
			49				50			
			51				52			
			53				54			
PHASE TOTALS (kVA):				5.6	4.8	5.2				

CONNECTED AMPERES: 43.4 A **CONNECTED kVA:** 15.6 kVA
CALCULATED AMPERES: 40.0 A **CALCULATED kVA:** 14.4 kVA

NOTES:

PANELBOARD "PL2A-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECT 202

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
221 HUB REC.	2#10 & 1#10G ~ 0.75°C	20 A 1	1	0.7 0.9			2	1 20 A	2#10 & 1#10G ~ 0.75°C	226 PROJECT REC.
221 HUB COUNTER...	2#12 & 1#12G ~ 0.75°C	20 A 1	3		0.2 0.4		4	1 20 A	2#12 & 1#12G ~ 0.75°C	226 PROJECT PT
221 HUB COUNTER...	2#12 & 1#12G ~ 0.75°C	20 A 1	5			0.2 1.3	6	1 20 A	2#12 & 1#12G ~ 0.75°C	228 THINK TANK REC.
221 HUB COUNTER...	2#12 & 1#12G ~ 0.75°C	20 A 1	7	0.2 0.4			8	1 20 A	2#12 & 1#12G ~ 0.75°C	228 THINK TANK PT
221 HUB COUNTER...	2#12 & 1#12G ~ 0.75°C	20 A 1	9		0.2 0.7		10	1 20 A	2#12 & 1#12G ~ 0.75°C	227 MAIL REC.
221 HUB ICE MAKER	2#12 & 1#12G ~ 0.75°C	20 A 1	11			0.2 0.7	12	1 20 A	2#12 & 1#12G ~ 0.75°C	AREA B CORR./BOH...
221 HUB FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A 1	13	0.5 0.5			14	1 20 A	2#12 & 1#12G ~ 0.75°C	TLT. AUTO FLUSH
221 HUB FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A 1	15		0.5 1.1		16	1 20 A	2#12 & 1#12G ~ 0.75°C	236, 237 TLT. REC.
250, 251 OFF. REC.	2#8 & 1#8G ~ 0.75°C	20 A 1	17			1.4 0.6	18	1 20 A	2#12 & 1#12G ~ 0.75°C	WATER FOUNTAIN
220 CORR. REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	19	1.5 0.2			20	1 20 A	2#12 & 1#12G ~ 0.75°C	216 ELEC. REC.
222 CONF. REC.	2#10 & 1#10G ~ 0.75°C	20 A 1	21		1.1 0.4		22	1 20 A	2#12 & 1#12G ~ 0.75°C	218 COMM. REC
222 CONF. REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	23			1.5 0.4	24	1 20 A	2#12 & 1#12G ~ 0.75°C	218 COMM. REC
222 CONF. PT.	2#12 & 1#12G ~ 0.75°C	20 A 1	25	0.7 0.4			26	1 20 A	2#12 & 1#12G ~ 0.75°C	218 COMM. REC
222 CONF. PT.	2#12 & 1#12G ~ 0.75°C	20 A 1	27		0.7 0.4		28	1 20 A	2#12 & 1#12G ~ 0.75°C	218 COMM. REC
222 CONF. CREDENZA	2#12 & 1#12G ~ 0.75°C	20 A 1	29			0.4 0.5	30	1 20 A	2#12 & 1#12G ~ 0.75°C	218 COMM. BAS PNL.
223 MEETING REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	31	1.1 0.1			32	2 30 A	2#10 & 1#10G ~ 0.75°C	218 COMM. RACK
220 FS DAMPER	2#12 & 1#12G ~ 0.75°C	20 A 1	33		0.2 0.1		34			
224 MEETING REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	35			0.9 0.1	36	2 30 A	2#10 & 1#10G ~ 0.75°C	218 COMM. RACK
224 MEETING PT	2#12 & 1#12G ~ 0.75°C	20 A 1	37	0.4 0.1			38			
225 PROJECT REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	39		1.1 0.1		40			
225 PROJECT PT	2#12 & 1#12G ~ 0.75°C	20 A 1	41			0.4 0.1	42	2 30 A	2#10 & 1#10G ~ 0.75°C	218 COMM. RACK
S236-40,242	2#12 & 1#12G ~ 0.75°C	20 A 1	43	0.6			44			
S237-39,254-55	2#12 & 1#12G ~ 0.75°C	20 A 1	45		1.0		46			
218 COMM. PANEL...	2#12 & 1#12G ~ 0.75°C	20 A 1	47			0.5	48			
216 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75°C	20 A 1	49	0.5			50			
216 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75°C	20 A 1	51		0.5		52			
223, 224 MEET TV	2#12 & 1#12G ~ 0.75°C	20 A 1	53			1.5	54			
225, 226 PROJECT RM...	2#12 & 1#12G ~ 0.75°C	20 A 1	55	1.5			56			
202 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75°C	20 A 1	57		0.5		58			
			59				60			
			61				62			
			63				64			
PHASE TOTALS (kVA):				10.1	9.4	10.5				

CONNECTED AMPERES: 82.9 A **CONNECTED kVA:** 29.9 kVA
CALCULATED AMPERES: 62.8 A **CALCULATED kVA:** 22.6 kVA

NOTES:

PANELBOARD "LH2-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 100 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 50A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:** ELECT 202

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
LIGHTING LOBBY A...		20 A 1	1	1.5			2			
LIGHTING AREA A		20 A 1	3		3.3		4			
LIGHTING AREA B...		20 A 1	5			3.6	6			
LIGHTING AREA B WEST		20 A 1	7	2.6			8			
LIGHTING AREA B...		20 A 1	9		3.4		10			
LIGHTING AREA A		20 A 1	11			3.8	12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
PHASE TOTALS (kVA):				4.1	6.6	7.4				

CONNECTED AMPERES: 21.9 A **CONNECTED kVA:** 18.2 kVA
CALCULATED AMPERES: 21.9 A **CALCULATED kVA:** 18.2 kVA

NOTES:

PANELBOARD "PL2C-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 245

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
			55				56			
			57				58			
			59				60			
			61				62			
			63				64			
			65				66			
			67				68			
			69				70			
			71				72			
			73				74			
			75				76			
			77				78			
			79				80			
			81				82			
			83				84			
			85				86			
			87				88			
			89				90			
			91				92			
			93				94			
			95				96			
			97				98			
			99				100			
			101				102			
			103				104			
			105				106			
			107				108			
PHASE TOTALS (kVA):				0.0	0.0	0.0				

CONNECTED AMPERES: 0.0 A **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL2B-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 233

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
232 PRIVACY RM. REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	1	0.4 0.4			2	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
230 MTG. TV, 231 REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	3		2.0 0.4		4	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
229 MTG REC., 230 REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	5			1.8 0.4	6	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
253 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	7	0.7 0.4			8	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
254 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	9		0.7 0.4		10	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
264 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	11			0.7 0.4	12	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
255 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	13	0.7 0.4			14	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
259, 265, CORR. REC.	2#10 & 1#10G ~ 0.75°C	20 A 1	15		1.1 0.4		16	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
263 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	17			0.7 0.4	18	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
256 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	19	0.7 0.4			20	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
257 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	21		0.7 0.4		22	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
258 OFFICE REC.	2#10 & 1#10G ~ 0.75°C	20 A 1	23			0.7 0.4	24	1 20 A	2#12 & 1#12G ~ 0.75°C	266 OPEN OFFICE PT
262 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	25	0.7 1.1			26	1 20 A	2#8 & 1#8G ~ 0.75°C	OPEN OFFICE W REC.
261 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	27		0.7 0.9		28	1 20 A	2#8 & 1#8G ~ 0.75°C	OPEN OFFICE E REC.
260 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A 1	29			0.7	30			
S221-24,228-29	2#12 & 1#12G ~ 0.75°C	20 A 1	31	1.2			32			
S230-35	2#12 & 1#12G ~ 0.75°C	20 A 1	33		1.2		34			
			35				36			
			37				38			
			39				40			
			41				42			
			43				44			
			45				46			
			47				48			
			49				50			
			51				52			
			53				54			
PHASE TOTALS (kVA):				9.5	11.3	8.7				

CONNECTED AMPERES: 81.7 A **CONNECTED kVA:** 29.4 kVA
CALCULATED AMPERES: 58.1 A **CALCULATED kVA:** 20.9 kVA

NOTES:

PANELBOARD "MH2-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 250 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 250A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:** ELECT 202

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
S217	2#10 & 1#10G~0.75°C	25 A 1	1	4.0 0.0			2	1 20 A	--	SPARE
S218	2#10 & 1#10G~0.75°C	30 A 1	3		4.5 0.0		4	1 20 A	--	SPARE
S219	2#10 & 1#10G~0.75°C	25 A 1	5			4.0 0.0	6	1 20 A	--	SPARE
S220	2#10 & 1#10G~0.75°C	30 A 1	7	4.5 0.0			8	-- --	--	SPACE
S225	2#8 & 1#10G~0.75°C	40 A 1	9		7.0 0.0		10	-- --	--	SPACE
S226	2#8 & 1#10G~0.75°C	35 A 1	11			6.5 0.0	12	-- --	--	SPACE
S227	2#10 & 1#10G~0.75°C	25 A 1	13	4.0 0.0			14	-- --	--	SPACE
S241	2#12 & 1#12G~0.75°C	15 A 1	15		1.5 0.0		16	-- --	--	SPACE
S243	2#12 & 1#12G~0.75°C	15 A 1	17			2.0 0.0	18	-- --	--	SPACE
S244	2#10 & 1#10G~0.75°C	30 A 1	19	5.0 0.0			20	-- --	--	SPACE
S245	2#8 & 1#10G~0.75°C	35 A 1	21		6.0 0.0		22	-- --	--	SPACE
S246	2#12 & 1#12G~0.75°C	20 A 1	23			3.0 0.0	24	-- --	--	SPACE
S250	2#12 & 1#12G~0.75°C	15 A 1	25	1.0 0.0			26	-- --	--	SPACE
S254	2#4 & 1#8G~1.25°C	60 A 1	27		11.0 0.0		28	-- --	--	SPACE
S253	2#6 & 1#8G~1.25°C	45 A 2	29			6.5 0.0	30	-- --	--	SPACE
			31	6.5 0.0			32	-- --	--	SPACE
SPARE	--	20 A 1	33		0.0 0.0		34	-- --	--	SPACE
SPARE	--	20 A 1	35			0.0 0.0	36	-- --	--	SPACE
SPARE	--	20 A 1	37	0.0 0.0			38	-- --	--	SPACE
SPARE	--	20 A 1	39		0.0 0.0		40	-- --	--	SPACE
SPARE	--	20 A 1	41			0.0 0.0	42	-- --	--	SPACE
PHASE TOTALS (kVA):				25.0	30.0	22.0				

CONNECTED AMPERES: 92.6 A **CONNECTED kVA:** 77.0 kVA
CALCULATED AMPERES: 92.6 A **CALCULATED kVA:** 77.0 kVA

NOTES:

PANELBOARD "PL2B-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 233

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	55	0.4 0.4			56	1 20 A	2#12 & 1#12G ~ 0.75°C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	57		0.4 0.4		58	1 20 A	2#12 & 1#12G ~ 0.75°C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	59			0.4 0.4	60	1 20 A	2#12 & 1#12G ~ 0.75°C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	61	0.4 0.4			62	1 20 A	2#12 & 1#12G ~ 0.75°C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	63		0.4 0.4		64	1 20 A	2#12 & 1#12G ~ 0.75°C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	65			0.4 0.4	66	1 20 A	2#12 & 1#12G ~ 0.75°C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	67	0.4 0.4			68	1 20 A	2#12 & 1#12G ~ 0.75°C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	69		0.4 0.4		70	1 20 A	2#12 & 1#12G ~ 0.75°C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	71			0.4 0.4	72	1 20 A	2#12 & 1#12G ~ 0.75°C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	73	0.4			74			
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	75		0.4		76			
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A 1	77			0.4	78			
			79				80			
			81				82			
			83				84			
			85				86			
			87				88			
			89				90			
			91				92			
			93				94			
			95				96			
			97				98			
			99				100			
			101				102			
			103				104			
			105				106			
			107				108			
PHASE TOTALS (kVA):				2.5	2.5	2.5				

CONNECTED AMPERES: 21.0 A **CONNECTED kVA:** 7.6 kVA
CALCULATED AMPERES: 21.0 A **CALCULATED kVA:** 7.6 kVA

NOTES:

DISTRIBUTION PANELBOARD "PDL2-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 400A/3P MCB **LOCATION:** ELECT 202
WIRE: 4 **SCCR:** 10KA

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL2A-T	3	200 A	29.9 kVA		SEE RISER DIAGRAM
2	PL2B-T	3	200 A	29.4 kVA		SEE RISER DIAGRAM
3	PL2C-T	3	200 A	15.6 kVA		SEE RISER DIAGRAM
4	SPACE	--	--	0.0 kVA	--	--
5	SPACE	--	--	0.0 kVA	--	--
6	SPACE	--	--	0.0 kVA	--	--
7	SPACE	--	--	0.0 kVA	--	--
8	SPACE	--	--	0.0 kVA	--	--
9	SPACE	--	--	0.0 kVA	--	--
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 208 A 74.9 kVA
CALCULATED AMPERES: 133 A 48.0 kVA

Notes:

PANEL SCHEDULE LEGEND		
PL2C-T	PL2A-T	LH2-T
PL2C-T	PL2B-T	MH2-T
	PL2B-T	PDL2-T

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CONSULTANTS AND ENGINEERS
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5425 Page Rd
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N&B PROJECT: 19N342
Firm License No. F-0312

CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.3111 FAX. 910.790.9901
WWW.LS3P.COM

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-510

TI GMP SET

11/19/2020 4:16:10 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

PANELBOARD "PL3A-T" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 302

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
317 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4	1.5					2	1	20 A	2#12 & 1#12G ~ 0.75"C	322 CONF. REC.
317 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.4	0.7			4	1	20 A	2#12 & 1#12G ~ 0.75"C	322 CONF. PT
317 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.4	0.7	6	1	20 A	2#12 & 1#12G ~ 0.75"C	322 CONF. PT
317 DATA BAS PNL.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.5	1.1					8	1	20 A	2#10 & 1#10G ~ 0.75"C	322 CONF. REC.
342 ELEC. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.2	0.4			10	1	20 A	2#12 & 1#12G ~ 0.75"C	322 CONF. CREDENZA
335 OFF., CORR. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					1.3	0.9	12	1	20 A	2#10 & 1#10G ~ 0.75"C	321 HUB REC.
337, 336 TLT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	1.1	0.2					14	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB COUNTER...
WATER FOUNTAIN	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.5	0.2			16	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB COUNTER...
TLT. AUTO FLUSH	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.5	0.2	18	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB COUNTER...
327 WORK RM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	1.5	0.5					20	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB FRIDGE
327 WORK RM PT	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.4	0.5			22	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB FRIDGE
325 PROJECT RM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	23					1.1	0.2	24	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB ICE MAKER
325 PROJECT PT	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.4	1.6					26	1	20 A	2#10 & 1#10G ~ 0.75"C	362 PLAN REV. REC.
323 MEETING RM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	27			1.1	1.5			28	1	20 A	2#12 & 1#12G ~ 0.75"C	362 PLAN REV. TVS
323 MEETING PT	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.4	0.7	30	1	20 A	2#12 & 1#12G ~ 0.75"C	362 PLAN REV. PT
328 THINK TANK REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	1.3	0.7					32	1	20 A	2#12 & 1#12G ~ 0.75"C	363 OFFICE REC.
328 THINK TANK PT	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.4	0.7			34	1	20 A	2#12 & 1#12G ~ 0.75"C	364 OFFICE REC.
326 PROJECT RM REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	35					0.9	0.7	36	1	20 A	2#12 & 1#12G ~ 0.75"C	365 OFFICE REC.
326 PROJECT PT	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.4	0.1					38				
324 MEETING RM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	39			0.9	0.1			40	2	30 A	2#10 & 1#10G ~ 0.75"C	303 DATA RACK
324 MEETING PT	2#12 & 1#12G ~ 0.75"C	20 A	1	41					0.4	0.1	42				
RCP-3-1	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.5	0.1					44	2	30 A	2#10 & 1#10G ~ 0.75"C	303 DATA RACK
320 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A	1	45			0.2	0.1			46				
S324,331,337,352	2#12 & 1#12G ~ 0.75"C	20 A	1	47					1.0	0.1	48	2	30 A	2#10 & 1#10G ~ 0.75"C	303 DATA RACK
342 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	49	0.5	0.2					50	1	20 A	2#12 & 1#12G ~ 0.75"C	303 AV RACK
342 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	51			0.5	0.2			52	1	20 A	2#12 & 1#12G ~ 0.75"C	303 AV RACK
323, 324 MEET. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	53					1.5	0.2	54	1	20 A	2#12 & 1#12G ~ 0.75"C	303 AV RACK
325, 326 PROJECT RM...	2#12 & 1#12G ~ 0.75"C	20 A	1	55	1.5	0.2					56	1	20 A	2#12 & 1#12G ~ 0.75"C	303 AV RACK
302 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.5				58				
				59							60				
				61							62				
				63							64				
	PHASE TOTALS (kVA):				14.0		9.2		11.1						

CONNECTED AMPERES: 95.2 A | **CONNECTED kVA:** 34.3 kVA
CALCULATED AMPERES: 68.0 A | **CALCULATED kVA:** 24.5 kVA

NOTES:

DISTRIBUTION PANELBOARD "PDL3-T" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 400 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 400A/3P MCB | **LOCATION:** ELEC. 302
WIRE: 4 | **SCCR:** 10KA

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL3A-T	3	200 A	34.3 kVA		SEE RISER DIAGRAM
2	PL3B-T	3	200 A	36.1 kVA		SEE RISER DIAGRAM
3	PL3C-T	3	200 A	27.7 kVA		SEE RISER DIAGRAM
4	SPACE	--	--	0.0 kVA	--	--
5	SPACE	--	--	0.0 kVA	--	--
6	SPACE	--	--	0.0 kVA	--	--
7	SPACE	--	--	0.0 kVA	--	--
8	SPACE	--	--	0.0 kVA	--	--
9	SPACE	--	--	0.0 kVA	--	--
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 272 A | 98.0 kVA
CALCULATED AMPERES: 165 A | 59.6 kVA

Notes:

PANELBOARD "LH3-T" SCHEDULE

VOLTS: 480/277 Wye | **BUS:** 100 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 50A/3P MCB | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 35KA | **LOCATION:** ELEC. 302

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
	PHASE TOTALS (kVA):				0.0		0.0		0.0						

CONNECTED AMPERES: 0.0 A | **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A | **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL3C-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 350

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
AREA A CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	1	1.1	0.7					2	1	20 A	2#12 & 1#12G ~ 0.75"C	355 OFFICE REC.
AREA A CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	3			1.6	0.7			4	1	20 A	2#12 & 1#12G ~ 0.75"C	357 OFFICE REC.
349 PLAN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					1.5	0.7	6	1	20 A	2#12 & 1#12G ~ 0.75"C	356 LIBRARY REC.
349 PLAN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	1.6	0.7					8	1	20 A	2#12 & 1#12G ~ 0.75"C	358 OFFICE REC.
348 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.7	0.7			10	1	20 A	2#12 & 1#12G ~ 0.75"C	360 OFFICE REC.
347 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.7	0.4	12	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
346 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.7	0.4					14	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
345 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.7	0.4			16	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
344 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	17					0.7	0.4	18	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
342 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	19	0.7	0.4					20	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
340 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	21			0.7	0.4			22	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
341 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	23					0.7	0.4	24	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
339 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	25	0.7	0.4					26	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
338 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	27			0.7	0.4			28	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
343 PLOT/COPY REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.4	0.4	30	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
343 PLOT/COPY REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.4	0.4					32	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
343 PLOT/COPY REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	33			0.7	0.5			34	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE FF
351 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	35					0.7	0.5	36	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE FF.
352 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.7						38				
353 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	39			0.7				40				
354 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	41					0.7		42				
320, 360 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.4						44				
S341-44,346	2#12 & 1#12G ~ 0.75"C	20 A	1	45			1.0				46				
S350-51	2#12 & 1#12G ~ 0.75"C	20 A	1	47					0.4		48				
				49							50				
				51							52				
				53							54				
	PHASE TOTALS (kVA):				9.2		10.0		8.5						

CONNECTED AMPERES: 76.9 A | **CONNECTED kVA:** 27.7 kVA
CALCULATED AMPERES: 56.2 A | **CALCULATED kVA:** 20.2 kVA

NOTES:

PANELBOARD "PL3B-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 333

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
332 PRIVACY RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4	0.7					2	1	20 A	2#12 & 1#12G ~ 0.75"C	369 PLAN REVIEW PT
331 MTG REC., 330 TV	2#12 & 1#12G ~ 0.75"C	20 A	1	3			2.0	1.5			4	1	20 A	2#12 & 1#12G ~ 0.75"C	369 PLAN REVIEW RE...
329 MTG REC., 330 REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					1.8	1.5	6	1	20 A	2#12 & 1#12G ~ 0.75"C	369 PLAN REVIEW TVS
389 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.7	0.7					8	1	20 A	2#12 & 1#12G ~ 0.75"C	375 INV./IMAGING REC.
388 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.7	0.5			10	1	20 A	2#12 & 1#12G ~ 0.75"C	375 INV./IMAGING REC.
387 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.7	0.7	12	1	20 A	2#12 & 1#12G ~ 0.75"C	370 OFFICE REC.
386 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.7	0.7					14	1	20 A	2#12 & 1#12G ~ 0.75"C	371 OFFICE REC.
385 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.7	0.7			16	1	20 A	2#10 & 1#10G ~ 0.75"C	372 OFFICE REC.
384 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	17					0.7	0.7	18	1	20 A	2#12 & 1#12G ~ 0.75"C	373 OFFICE REC.
383 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	19	0.7	0.7					20	1	20 A	2#12 & 1#12G ~ 0.75"C	374 OFFICE REC.
382 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	21			0.7	1.4			22	1	20 A	2#8 & 1#8G ~ 0.75"C	AREA B CORR. REC.
381 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	23					0.7	0.4	24	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
380 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.7	0.4					26	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
379 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.7	0.4			28	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
377 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.7	0.4	30	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
367, 378, CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	31	1.4	0.4					32	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
376 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.7	0.4			34	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
368 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	35					0.7	0.4	36	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
S305-7,117-19	2#12 & 1#12G ~ 0.75"C	20 A	1	37	1.2	0.4					38	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
S309-12,320	2#12 & 1#12G ~ 0.75"C	20 A	1	39			1.2				40				
S321-23,325-26,334	2#12 & 1#12G ~ 0.75"C	20 A	1	41					1.2		42				
				43							44				
				45							46				
				47							48				
				49							50				
				51							52				
				53							54				
	PHASE TOTALS (kVA):				11.3		13.1		11.7						

CONNECTED AMPERES: 100.1 A | **CONNECTED kVA:** 36.1 kVA
CALCULATED AMPERES: 68.9 A | **CALCULATED kVA:** 24.8 kVA

NOTES:

PANELBOARD "MH3-T" SCHEDULE1

VOLTS: 480/277 Wye | **BUS:** 250 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 250A/3P MCB | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 35KA | **LOCATION:** ELEC. 302

NOTES:

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
S300	2#10 & 1#10G~0.75"C	25 A	1	1	4.0	0.0					2	1	20 A	--	SPARE
S301	2#12 & 1#12G~0.75"C	15 A	1	3			2.0	0.0			4	1	20 A	--	SPARE
S302	2#10 & 1#12G~0.75"C	20 A	1	5					3.5	0.0	6	1	20 A	--	SPARE
S303	2#12 & 1#12G~0.75"C	20 A	1	7	3.0	0.0					8	1	20 A	--	SPARE
S304	2#10 & 1#10G~0.75"C	25 A	1	9			4.0	0.0			10	1	20 A	--	SPARE
S313	2#10 & 1#10G~0.75"C	30 A	1	11					4.5	0.0	12	1	20 A	--	SPARE
S314	2#10 & 1#10G~0.75"C	30 A	1	13	4.5	0.0					14	1	20 A	--	SPARE
S315	2#12 & 1#12G~0.75"C	15 A	1	15			1.5	0.0			16	1	20 A	--	SPARE
S316	2#8 & 1#10G~0.75"C	35 A	1	17					6.0	0.0	18	1	20 A	--	SPARE
S328	2#12 & 1#12G~0.75"C	15 A	1	19	2.0	0.0					20	1	20 A	--	SPARE
S329	2#12 & 1#12G~0.75"C	15 A	1	21			1.0	0.0			22	1	20 A	--	SPARE
S330	2#12 & 1#12G~0.75"C	15 A	1	23					1.0	0.0	24	--	--	--	SPACE
S332	2#12 & 1#12G~0.75"C	15 A	1	25	1.0	0.0					26	--	--	--	SPACE
S333	2#12 & 1#12G~0.75"C	15 A	1	27			1.0	0.0			28	--	--	--	SPACE
S335	2#12 & 1#12G~0.75"C	15 A	1	29					1.5	0.0	30	--	--	--	SPACE
S336	2#12 & 1#12G~0.75"C	15 A	1	31	2.0	0.0					32	--	--	--	SPACE
S338	2#12 & 1#12G~0.75"C	20 A	1	33			3.5	0.0			34	--	--	--	SPACE
S339	2#10 & 1#10G~0.75"C	25 A	1	35					4.0	0.0	36	--	--	--	SPACE
S340	2#8 & 1#10G~0.75"C	30 A	1	37	5.5	0.0					38	--	--	--	SPACE
S345	2#12 & 1#12G~0.75"C	15 A	1	39			1.0	0.0			40	--	--	--	SPACE
S347	2#12 & 1#12G~0.75"C	20 A	1	41					3.5	0.0	42	--	--	--	SPACE
S348	2#10 & 1#10G~0.75"C	25 A	1	43	4.0	0.0					44	--	--	--	SPACE
S349	2#10 & 1#10G~0.75"C	30 A	1	45			4.5	0.0			46	--	--	--	SPACE
				47					6.0	0.0	48	--	--	--	SPACE
WH-3-1	3#6 & 1#10G~1"C	40 A	3	49	6.0	0.0					50	--	--	--	SPACE
				51			6.0	0.0			52	--	--	--	SPACE
SPACE	--	--	--	53					0.0	0.0	54	--	--	--	SPACE
	PHASE TOTALS (kVA):				32.0		24.5		30.0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD
HVAC	68500 VA	100.00%	68500 VA
Heating	18000 VA	100.00%	18000 VA

CONNECTED LOAD: 86500 VA
CALCULATED LOAD: 86500 VA

CONNECTED AMPERES: 104 A
CALCULATED AMPERES: 104 A

PANELBOARD "PL3C-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 350

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				55							56				
				57							58				
				59							60				
				61							62				
				63							64				
				65							66				
				67							68				
				69							70				
				71							72				
				73							74				
				75							76				
				77							78				
				79							80				
				81							82				
				83							84				
				85							86				
				87							88				
				89							90				
				91							92				
				93							94				
				95							96				
				97							98				
				99							100				
				101							102				
				103							104				
				105							106				
				107							108				
	PHASE TOTALS (kVA):				0.0		0.0		0.0						

CONNECTED AMPERES: 0.0 A | **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A | **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL3B-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 333

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	55	0.4	0.4					56	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.4	0.4			58	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	59					0.4	0.4	60	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	61	0.4	0.4					62	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	63			0.4	0.4			64	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	65					0.4		66				
				67							68				
				69							70				
				71							72				
				73							74				
				75							76				
				77							78				
				79							80				
				81							82				
				83							84				
				85							86				
				87							88				
				89							90				
				91							92				
				93							94				
				95							96				
				97							98				
				99							100				
				101							102				
				103							104				
				105							106				
				107							108				
	PHASE TOTALS (kVA):				1.4		1.4		1.1						

CONNECTED AMPERES: 11.0 A | **CONNECTED kVA:** 4.0 kVA
CALCULATED AMPERES: 11.0 A | **CALCULATED kVA:** 4.0 kVA

NOTES:

PANEL SCHEDULE LEGEND		
PL3A-T	PDL3-T

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE FULL SCALE PLOTTED SIZE

PANELBOARD "PL4A-T" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 402

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
418 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	1	0.4 1.3			2	1 20 A	2#12 & 1#12G ~ 0.75"C	424 LG. CONF. REC.
418 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	3		0.4 0.9		4	1 20 A	2#12 & 1#12G ~ 0.75"C	424 LG. CONF. REC.
418 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	5			0.4 0.4	6	1 20 A	2#12 & 1#12G ~ 0.75"C	424 LG. CONF....
418 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	7	0.4 0.7			8	1 20 A	2#12 & 1#12G ~ 0.75"C	424 LG. CONF. PT
418 DATA BAS PNL.	2#12 & 1#12G ~ 0.75"C	20 A 1	9		0.5 0.7		10	1 20 A	2#10 & 1#10G ~ 0.75"C	421 HUB REC.
416 ELEC. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	11			0.2 0.2	12	1 20 A	2#12 & 1#12G ~ 0.75"C	421 HUB COUNTER...
434, 435, CORR. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	13	0.9 0.2			14	1 20 A	2#12 & 1#12G ~ 0.75"C	421 HUB COUNTER...
436, 437 TLT REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	15		1.1 0.2		16	1 20 A	2#12 & 1#12G ~ 0.75"C	421 HUB COUNTER...
WATER FOUNTAIN	2#12 & 1#12G ~ 0.75"C	20 A 1	17			0.6 0.2	18	1 20 A	2#12 & 1#12G ~ 0.75"C	421 HUB COUNTER...
TLT. AUTO FLUSH	2#12 & 1#12G ~ 0.75"C	20 A 1	19	0.5 0.2			20	1 20 A	2#12 & 1#12G ~ 0.75"C	421 HUB ICE MAKER
422 CONF. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	21		1.5 0.5		22	1 20 A	2#12 & 1#12G ~ 0.75"C	421 HUB FRIDGE
422 CONF. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	23			1.1 0.5	24	1 20 A	2#12 & 1#12G ~ 0.75"C	421 HUB FRIDGE
422 CONF. PT	2#12 & 1#12G ~ 0.75"C	20 A 1	25	0.7 0.5			26	1 20 A	2#12 & 1#12G ~ 0.75"C	458 OPEN OFFICE REC.
422 CONF. PT	2#12 & 1#12G ~ 0.75"C	20 A 1	27		0.7 0.5		28	1 20 A	2#12 & 1#12G ~ 0.75"C	458 OPEN OFFICE REC.
422 CONF. CREDENZA	2#12 & 1#12G ~ 0.75"C	20 A 1	29			0.4 0.1	30			
423 MEETING REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	31	1.1 0.1			32	2 30 A	2#10 & 1#10G ~ 0.75"C	403 DATA RACK
423 MEETING PT	2#12 & 1#12G ~ 0.75"C	20 A 1	33		0.4 0.1		34			
425 PROJECT RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	35			1.1 0.1	36	2 30 A	2#10 & 1#10G ~ 0.75"C	403 DATA RACK
425 PROJECT PT	2#12 & 1#12G ~ 0.75"C	20 A 1	37	0.4 0.1			38			
420 FIRE SMOKE...	2#12 & 1#12G ~ 0.75"C	20 A 1	39		0.2 0.1		40			
416 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A 1	41			0.5	42			
416 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A 1	43	0.5			44			
S454-55	2#12 & 1#12G ~ 0.75"C	20 A 1	45		0.9		46			
ROOF REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	47			0.5	48			
423, 425 TV	2#12 & 1#12G ~ 0.75"C	20 A 1	49	1.5			50			
402 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75"C	20 A 1	51		0.5		52			
			53				54			
			55				56			
			57				58			
			59				60			
			61				62			
			63				64			
	PHASE TOTALS (kVA):			9.3	9.1	6.1				

CONNECTED AMPERES: 68.0 A | **CONNECTED kVA:** 24.5 kVA
CALCULATED AMPERES: 53.7 A | **CALCULATED kVA:** 19.4 kVA

NOTES:

DISTRIBUTION PANELBOARD "PDL4-T" SCHEDULE

VOLTS: 120/208 Wye | **BUS:** 400 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 400A/3P MCB | **LOCATION:** ELEC. 402
WIRE: 4 | **SCCR:** 10KA

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL4A-T	3	200 A	24.5 kVA		SEE RISER DIAGRAM
2	PL4B-T	3	200 A	41.9 kVA		SEE RISER DIAGRAM
3	PL4C-T	3	200 A	33.1 kVA		SEE RISER DIAGRAM
4	SSAC-1-2	2	30 A	4.2 kVA		30N
5	SSAC-1-3	2	30 A	4.2 kVA		30N
6	SSAC-1-4	2	30 A	4.2 kVA		30N
7	SSAC-2-4	2	30 A	4.2 kVA		30N
8	SSAC-3-1	2	30 A	4.2 kVA		30N
9	SSAC-4-1	2	30 A	4.2 kVA		30N
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 346 A | 124.6 kVA
CALCULATED AMPERES: 235 A | 84.6 kVA

Notes:

PANELBOARD "LH4-T" SCHEDULE

VOLTS: 480/277 Wye | **BUS:** 100 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 50A/3P MCB | **SECTIONS:** 1
WIRE: 4 | **SCCR:** 35KA | **LOCATION:** ELEC. 402

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
			1				2			
			3				4			
			5				6			
			7				8			
			9				10			
			11				12			
			13				14			
			15				16			
			17				18			
			19				20			
			21				22			
			23				24			
			25				26			
			27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
	PHASE TOTALS (kVA):			0.0	0.0	0.0				

CONNECTED AMPERES: 0.0 A | **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A | **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL4C-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 439

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
439 ELEC. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	1	0.2 1.5			2	1 20 A	2#10 & 1#10G ~ 0.75"C	420, 438 CORR. REC.
452 TLT. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	3		0.2 0.7		4	1 20 A	2#10 & 1#10G ~ 0.75"C	438A CLERK REC.
452 TLT. AUTO...	2#12 & 1#12G ~ 0.75"C	20 A 1	5			0.5 0.7	6	1 20 A	2#10 & 1#10G ~ 0.75"C	438B CLERK REC.
451 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	7	1.1 0.7			8	1 20 A	2#10 & 1#10G ~ 0.75"C	438C VAULT REC.
420 CORR. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	9		1.1 0.5		10	1 20 A	2#12 & 1#12G ~ 0.75"C	438D KITCH. FRIDGE
453 CONF. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	11			1.1 0.2	12	1 20 A	2#12 & 1#12G ~ 0.75"C	438D KITCHEN REC.
453 CONF. PT.	2#12 & 1#12G ~ 0.75"C	20 A 1	13	0.7 0.4			14	1 20 A	2#12 & 1#12G ~ 0.75"C	438D KITCHEN REC.
454 OPEN OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	15		1.5 0.4		16	1 20 A	2#12 & 1#12G ~ 0.75"C	438E PRINT REC.
454 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A 1	17			0.4 0.4	18	1 20 A	2#12 & 1#12G ~ 0.75"C	438E PRINT REC.
455 OPEN OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	19	0.7 0.5			20	1 20 A	2#12 & 1#12G ~ 0.75"C	438E PRINT REC.
455 OPEN OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	21		0.4 0.7		22	1 20 A	2#12 & 1#12G ~ 0.75"C	441 OFFICE REC.
456 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	23			0.7 0.7	24	1 20 A	2#12 & 1#12G ~ 0.75"C	440 OFFICE REC.
457 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	25	0.7 1.3			26	1 20 A	2#12 & 1#12G ~ 0.75"C	438K CONF. REC.
447 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	27		0.7 0.4		28	1 20 A	2#12 & 1#12G ~ 0.75"C	438K CONF. PT
448 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	29			1.1 0.9	30	1 20 A	2#12 & 1#12G ~ 0.75"C	438J OFFICE REC
449 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	31	0.7 0.7			32	1 20 A	2#12 & 1#12G ~ 0.75"C	438H OFFICE REC.
450 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	33		0.7 0.7		34	1 20 A	2#10 & 1#10G ~ 0.75"C	438H OFFICE REC.
442 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	35			0.7 0.7	36	1 20 A	2#10 & 1#10G ~ 0.75"C	438G OFFICE REC.
443 MEETING REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	37	1.5 0.7			38	1 20 A	2#10 & 1#10G ~ 0.75"C	438F OFFICE REC.
443 MEETING PT	2#12 & 1#12G ~ 0.75"C	20 A 1	39		0.4		40			
444 PROJECT RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	41			0.7	42			
444 PROJECT PT	2#12 & 1#12G ~ 0.75"C	20 A 1	43	0.4			44			
445 SM. MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	45		1.1		46			
445 SM. MTG. PT	2#12 & 1#12G ~ 0.75"C	20 A 1	47			0.4	48			
451, 453 CONF. TV	2#12 & 1#12G ~ 0.75"C	20 A 1	49	1.5			50			
444, 445 TV	2#12 & 1#12G ~ 0.75"C	20 A 1	51		1.5		52			
			53				54			
	PHASE TOTALS (kVA):			13.2	10.8	9.1				

CONNECTED AMPERES: 92.0 A | **CONNECTED kVA:** 33.1 kVA
CALCULATED AMPERES: 60.6 A | **CALCULATED kVA:** 21.8 kVA

NOTES:

PANELBOARD "PL4B-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 433

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
AREA B CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A 1	1	1.3 0.7			2	1 20 A	2#10 & 1#10G ~ 0.75"C	480 OFFICE REC.
AREA B CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A 1	3		1.1 0.7		4	1 20 A	2#12 & 1#12G ~ 0.75"C	479 OFFICE REC.
488 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	5			0.7 0.7	6	1 20 A	2#12 & 1#12G ~ 0.75"C	478 OFFICE REC.
489 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	7	0.7 0.7			8	1 20 A	2#12 & 1#12G ~ 0.75"C	484 OFFICE REC.
490 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	9		0.7 0.7		10	1 20 A	2#12 & 1#12G ~ 0.75"C	485 OFFICE REC.
OPEN OFFICE WEST FF	2#12 & 1#12G ~ 0.75"C	20 A 1	11			0.5 0.7	12	1 20 A	2#12 & 1#12G ~ 0.75"C	477 OFFICE REC.
OPEN OFFICE WEST FF	2#12 & 1#12G ~ 0.75"C	20 A 1	13	0.5 0.7			14	1 20 A	2#12 & 1#12G ~ 0.75"C	486 OFFICE REC.
491 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	15		0.7 0.7		16	1 20 A	2#12 & 1#12G ~ 0.75"C	476 OFFICE REC.
492 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	17			0.7 0.7	18	1 20 A	2#12 & 1#12G ~ 0.75"C	475 OFFICE REC.
493 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	19	0.7 0.4			20	1 20 A	2#12 & 1#12G ~ 0.75"C	431 PRIVACY RM. REC.
495 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	21		0.7 2.0		22	1 20 A	2#12 & 1#12G ~ 0.75"C	429 MTG. TV, 430 REC.
494 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	23			0.7 1.8	24	1 20 A	2#12 & 1#12G ~ 0.75"C	428 MTG. REC., 429...
496 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	25	0.7 0.7			26	1 20 A	2#12 & 1#12G ~ 0.75"C	426 WORK RM. REC.
498 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	27		0.7 1.6		28	1 20 A	2#12 & 1#12G ~ 0.75"C	427 PROJECT RM. REC.
499 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	29			0.7 0.4	30	1 20 A	2#12 & 1#12G ~ 0.75"C	427 PROJECT PT
482 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	31	0.7			32			
483 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	33		0.7		34			
497 STORAGE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	35			0.7	36			
			37				38			
			39				40			
			41				42			
			43				44			
			45				46			
			47				48			
			49				50			
			51				52			
			53				54			
	PHASE TOTALS (kVA):			13.5	15.6	12.8				

CONNECTED AMPERES: 116.4 A | **CONNECTED kVA:** 41.9 kVA
CALCULATED AMPERES: 79.0 A | **CALCULATED kVA:** 28.5 kVA

NOTES:

PANELBOARD "MH4-T" SCHEDULE: SECTION 1

VOLTS: 480/277 Wye | **BUS:** 400 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** 350A/3P MCB | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 35KA | **LOCATION:** ELEC. 402

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
S400	2#10 & 1#10G~0.75"C	30 A 1	1	5.5 1.0			2	1 15 A	2#12 & 1#12G~0.75"C	S421
S401	2#12 & 1#12G~0.75"C	15 A 1	3		2.5 2.0		4	1 15 A	2#12 & 1#12G~0.75"C	S422
S402	2#12 & 1#12G~0.75"C	20 A 1	5			3.5 1.0	6	1 15 A	2#12 & 1#12G~0.75"C	S423
S403	2#10 & 1#12G~0.75"C	15 A 1	7	1.0 2.0			8	1 15 A	2#12 & 1#12G~0.75"C	S426
S404	2#10 & 1#12G~0.75"C	15 A 1	9		1.5 2.0		10	1 15 A	2#12 & 1#12G~0.75"C	S427
S405	2#12 & 1#12G~0.75"C	15 A 1	11			1.5 1.5	12	1 15 A	2#12 & 1#12G~0.75"C	S429
S406	2#10 & 1#10G~0.75"C	30 A 1	13	5.5 1.5			14	1 15 A	2#12 & 1#12G~0.75"C	S431
S407	2#12 & 1#12G~0.75"C	15 A 1	15		1.0 3.0		16	1 20 A	2#12 & 1#12G~0.75"C	S432
S408	2#12 & 1#12G~0.75"C	15 A 1	17			1.5 3.5	18	1 20 A	2#12 & 1#12G~0.75"C	S433
S409	2#12 & 1#12G~0.75"C	15 A 1	19	1.5			20			
S410	2#12 & 1#12G~0.75"C	15 A 1	21		1.5 2.1		22			
S411	2#12 & 1#12G~0.75"C	15 A 1	23			2.0 2.1	24	3 20 A	3#12 & 1#12G~0.75"C	EF-R-1 (1 HP)
S412	2#10 & 1#10G~0.75"C	25 A 1	25	4.0 2.1			26			
S413	2#10 & 1#10G~0.75"C	25 A 1	27		4.0 0.0		28	-- --	--	SPACE
S414	2#12 & 1#12G~0.75"C	15 A 1	29			1.0 0.0	30	-- --	--	SPACE
S415	2#12 & 1#12G~0.75"C	15 A 1	31	1.0 0.0			32	-- --	--	SPACE
S416	2#12 & 1#12G~0.75"C	20 A 1	33		3.5 0.0		34	-- --	--	SPACE
S417	2#12 & 1#12G~0.75"C	15 A 1	35			1.0 0.0	36	-- --	--	SPACE
S418	2#12 & 1#12G~0.75"C	15 A 1	37	1.0 0.0			38	-- --	--	SPACE
S419	2#12 & 1#12G~0.75"C	15 A 1	39		1.0 0.0		40	-- --	--	SPACE
S420	2#12 & 1#12G~0.75"C	15 A 1	41			1.0 0.0	42	-- --	--	SPACE
	PHASE TOTALS (kVA):			41.1	44.6	36.6				

CONNECTED AMPERES: 147.1 A | **CONNECTED kVA:** 122.3 kVA
CALCULATED AMPERES: 147.1 A | **CALCULATED kVA:** 122.3 kVA

NOTES:

PANELBOARD "PL4C-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 439

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
			55				56			
			57				58			
			59				60			
			61				62			
			63				64			
			65				66			
			67				68			
			69				70			
			71				72			
			73				74			
			75				76			
			77				78			
			79				80			
			81				82			
			83				84			
			85				86			
			87				88			
			89				90			
			91				92			
			93				94			
			95				96			
			97				98			
			99				100			
			101				102			
			103				104			
			105				106			
			107				108			
	PHASE TOTALS (kVA):			0.0	0.0	0.0				

CONNECTED AMPERES: 0.0 A | **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A | **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL4B-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | **BUS:** 225 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 10KA | **LOCATION:** ELEC. 433

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
458 OPEN OFFICE FF	2#12 & 1#12G ~ 0.75"C	20 A 1	55	0.5 0.7			56	1 20 A	2#12 & 1#12G ~ 0.75"C	464 OFFICE REC.
458 OPEN OFFICE FF	2#12 & 1#12G ~ 0.75"C	20 A 1	57		0.5 0.7		58	1 20 A	2#10 & 1#10G ~ 0.75"C	466 OFFICE REC.
458 OPEN OFFICE FF	2#12 & 1#12G ~ 0.75"C	20 A 1	59			0.5 0.7	60	1 20 A	2#12 & 1#12G ~ 0.75"C	467 OFFICE REC.
458 OPEN OFFICE FF	2#12 & 1#12G ~ 0.75"C	20 A 1	61	0.5 0.7			62	1 20 A	2#12 & 1#12G ~ 0.75"C	468 OFFICE REC.
459 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	63		0.7 0.7		64	1 20 A	2#10 & 1#10G ~ 0.75"C	469 OFFICE REC.
460 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	65			0.7 0.7	66	1 20 A	2#12 & 1#12G ~ 0.75"C	470 OFFICE REC.
462 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	67	0.7 0.7			68	1 20 A	2#10 & 1#10G ~ 0.75"C	471 OFFICE REC.
461 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	69		0.7 0.7		70	1 20 A	2#10 & 1#10G ~ 0.75"C	472 OFFICE REC.
463 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	71			0.7 0.5	72	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE SOUTH...
465 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	73	0.7 0.5			74	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE SOUTH...
			75		0.5		76	1 20 A	2#10 & 1#10G ~ 0.75"C	OPEN OFFICE SOUTH...
			77			0.5	78	1 20 A	2#10 & 1#10G ~ 0.75"C	OPEN OFFICE SOUTH...
			79	0.5			80	1 20 A	2#10 & 1#10G ~ 0.75"C	OPEN OFFICE S. REC.
			81		0.5		82	1 20 A	2#10 & 1#10G ~ 0.75"C	OPEN OFFICE S. REC.
			83				84			
			85				86			
			87				88			
			89				90			
			91				92			
			93				94			
			95				96			
			97				98			
			99				100			
			101				102			
			103				104			
			105				106			
			107				108			
	PHASE TOTALS (kVA):			5.6	5.1	4.4				

CONNECTED AMPERES: 42.1 A | **CONNECTED kVA:** 15.2 kVA
CALCULATED AMPERES: 40.5 A | **CALCULATED kVA:** 14.6 kVA

NOTES:

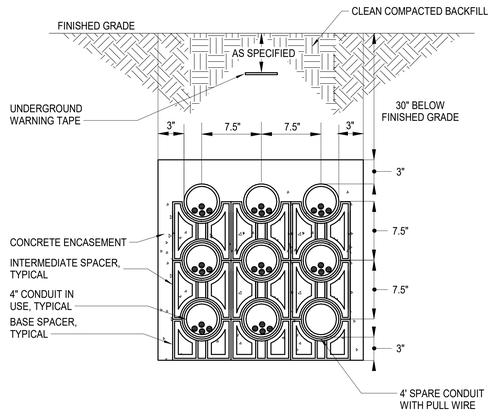
PANELBOARD "MH4-T" SCHEDULE: SECTION 2

VOLTS: 480/277 Wye | **BUS:** 400 A | **MOUNTING:** SURFACE
PHASES: 3 | **MAIN:** MLO | **SECTIONS:** 2
WIRE: 4 | **SCCR:** 35KA | **LOCATION:** ELEC. 402

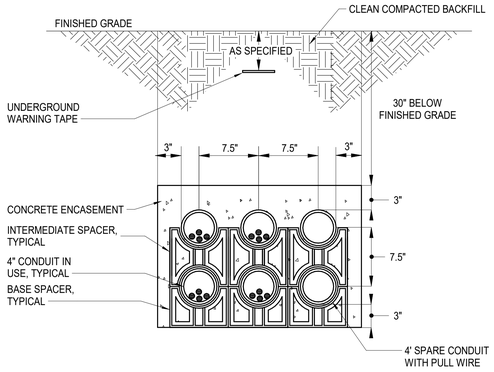
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
S424	2#12 & 1#12G~0.75"C	15 A 1	43	1.0 2.5			44	1 15 A	2#12 & 1#12G~0.75"C	S451
S425	2#12 & 1#12G~0.75"C	20 A 1	45		3.0 1.0		46	1 15 A	2#12 & 1#12G~0.75"C	S452
S428	2#12 & 1#12G~0.75"C	20 A 1	47			3.0 1.0	48	1 15 A	2#12 & 1#12G~0.75"C	S453
S430	2#12 & 1#12G~0.75"C	20 A 1	49	3.5 0.0			50	-- --	--	SPACE
S434	2#12 & 1#12G~0.75"C	15 A 1	51		2.0 0.0		52	-- --	--	SPACE
S435	2#12 & 1#12G~0.75"C	15 A 1	53			1.0 0.0	54	-- --	--	SPACE
S436	2#12 & 1#12G~0.75"C	15 A 1	55	1.0 0.0			56	-- --	--	SPACE
S437	2#8 & 1#10G~0.75"C	35 A 1	57		6.5 0.0		58	-- --	--	SPACE
S438	2#10 & 1#10G~0.75"C	25 A 1	59			4.0 0.0	60	-- --	--	SPACE
S439	2#10 & 1#12G~0.75"C	20 A 1	61	3.0 0.0			62	-- --	--	SPACE
S440	2#12 & 1#12G~0.75"C	15 A 1	63		2.0 0.0		64	-- --	--	SPACE
S441	2#12 & 1#12G~0.75"C	15 A 1	65			1.0 0.0	66	-- --	--	SPACE
S442	2#12 & 1#12G~0.75"C	15 A 1	67	1.5 0.0			68	-- --	--	SPACE
S443	2#12 & 1#12G~0.75"C	15 A 1	69		1.0 0.0		70	-- --	--	SPACE
S444	2#12 & 1#12G~0.75"C	15 A 1	71			1.0 0.0	72	-- --	--	SPACE
S445	2#12 & 1#12G~0.75"C	15 A 1	73	1.0 0.0			74	-- --	--	SPACE
S446	2#12 & 1#12G~0.75"C	15 A 1	75		1.0 0.0		76	-- --	--	SPACE
S447	2#12 & 1#12G~0.75"C	15 A 1	77			2.0 0.0	78	-- --	--	SPACE
S448	2#12 & 1#12G~0.75"C	15 A 1	79	1.5 0.0			80	-- --	--	SPACE
S449	2#10 & 1#10G~0.75"C	25 A 1	81		4.0 0.0		82	-- --	--	SPACE
S450	2#10 & 1#10G~0.75"C	25 A 1	83			4.0 0.0	84	-- --	--	SPACE
	PHASE TOTALS (kVA):			15.0	20.5	17.0				

**CONNECTED AMPERES

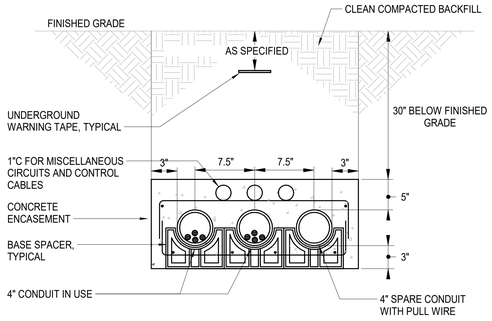
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



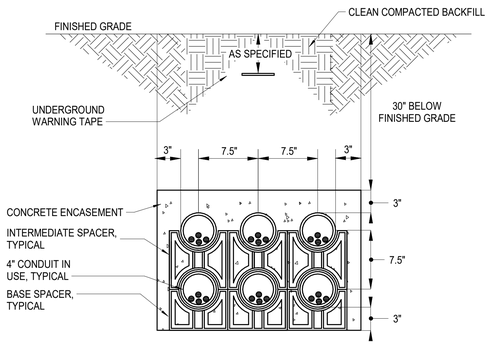
7 / E-601	NORMAL CONCRETE-ENCASED DUCTBANK - EOC	NTS



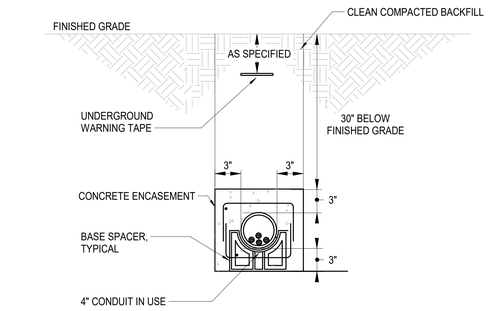
4 / E-601	NORMAL CONCRETE-ENCASED DUCTBANK - TOWER	NTS



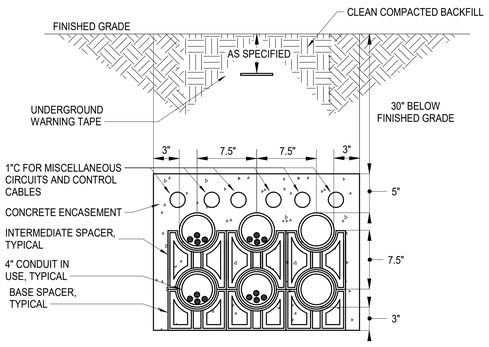
1 / E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK	NTS



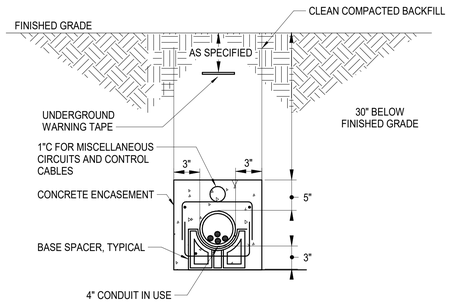
8 / E-601	CONCRETE-ENCASED DUCTBANK - EOC	NTS



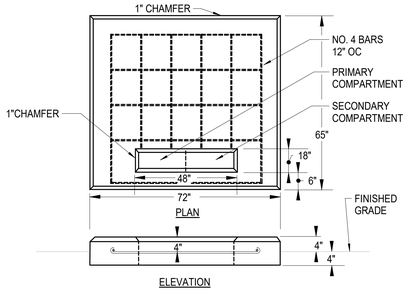
5 / E-601	CONCRETE-ENCASED DUCTBANK	NTS



2 / E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK - EOC	NTS

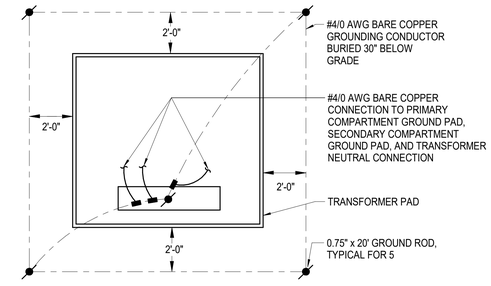


9 / E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK - EOC	NTS



NOTES:
1. SERVICE DUCTS SHALL BE LOCATED IN THE EXTREME RIGHT SIDE OF THE SECONDARY COMPARTMENT.
2. PRIMARY DUCTS SHALL BE EXTENDED BEYOND THE EDGE OF THE PAD IN THE DIRECTION OF INCOMING PRIMARY CABLES.
3. MATERIALS FOR PRIMARY DUCT SYSTEM WILL BE FURNISHED BY THE UTILITY.
4. THE PAD SHALL HAVE A MINIMUM CLEARANCE OF 10' FROM ALL BUILDINGS. A MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED FROM ALL OBSTRUCTIONS.

6 / E-601	TRANSFORMER PAD	NTS



NOTES:
1. PROVIDE GROUNDING CONNECTIONS TO THE PRIMARY CABLE SHIELDING AND TO THE PRIMARY ELBOW CONNECTORS.

3 / E-601	TRANSFORMER GROUNDING	NTS

Newcomb & Boyd
CONSULTANTS AND ENGINEERS
Consulting Engineering Group
5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

11/19/2020 4:16:23 PM

NEW HANOVER COUNTY • NORTH CAROLINA • ESTABLISHED 1729
CAPE FEAR FD STONEWATER
LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.3111 FAX. 910.790.9901
WWW.LS3P.COM

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

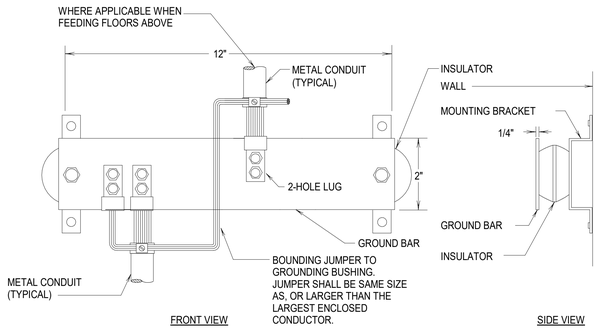
SHEET NAME:
ELECTRICAL DETAILS - SITE

DATE:
CURRENT: 2020.11.20
TI GMP SET

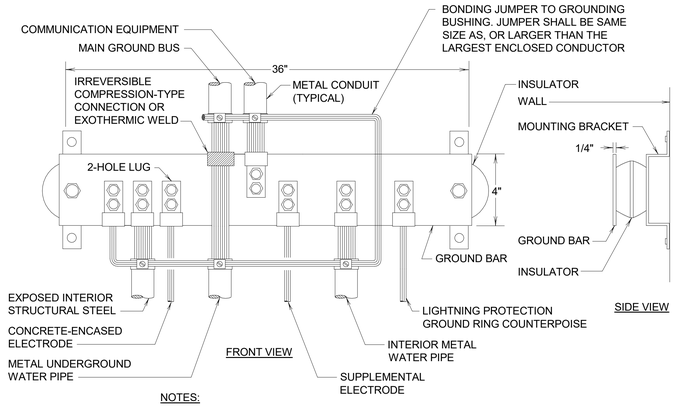
SHEET:
E-601

TI GMP SET

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLACED



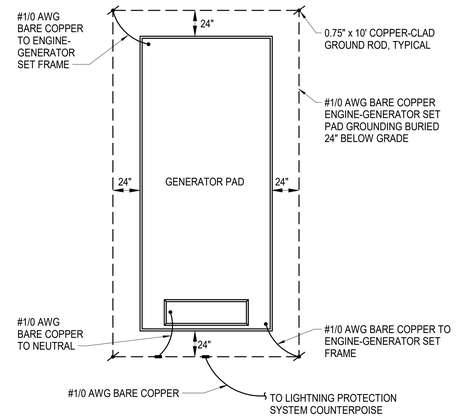
3	GROUND BAR	NTS
E-602		



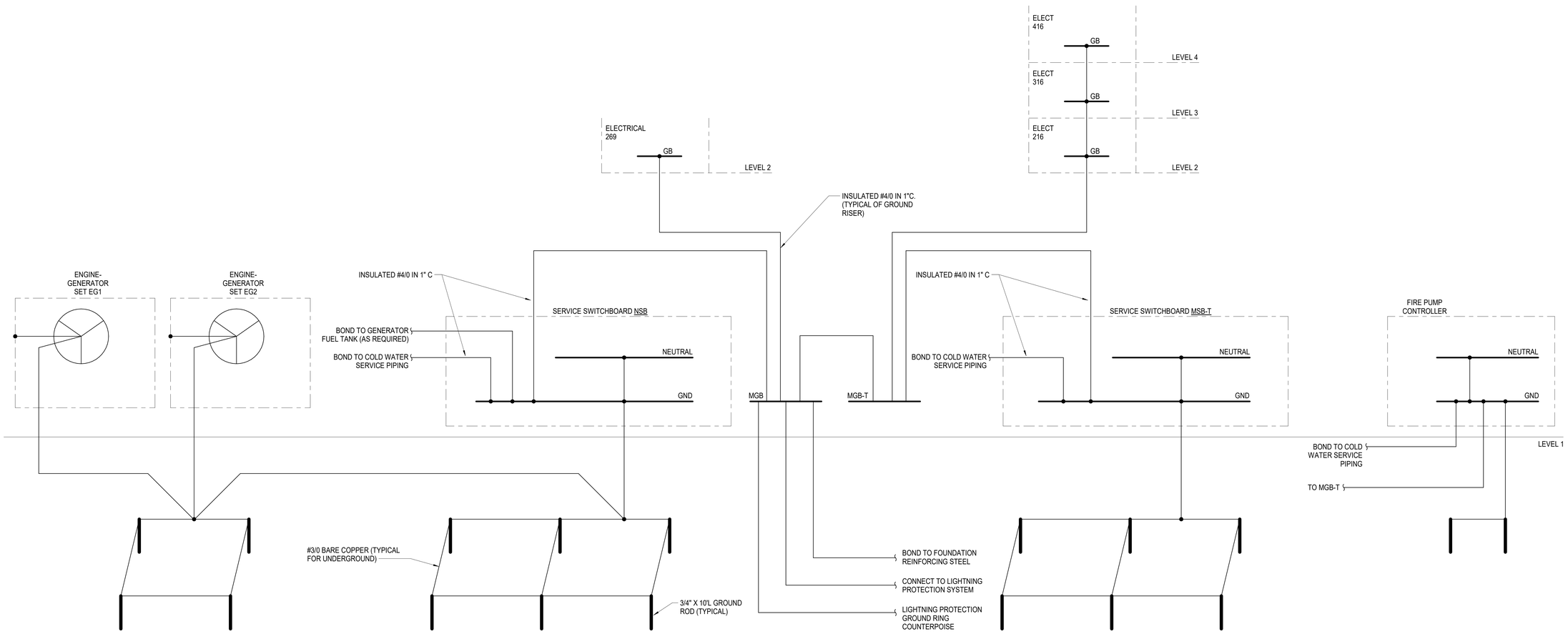
NOTES:

1. PROVIDE PERMANENT LABELING AT EACH GROUND CONNECTION AT THE MAIN GROUNDING BUS TO IDENTIFY EMERGENCY AND NORMAL SOURCES CONNECTED AT THAT LOCATION.

2	GROUND BUS BAR	NTS
E-602		



1	ENGINE-GENERATOR SET GROUNDING	NTS
E-602		



4	ELECTRICAL GROUNDING RISER DIAGRAM	NTS
E-602		

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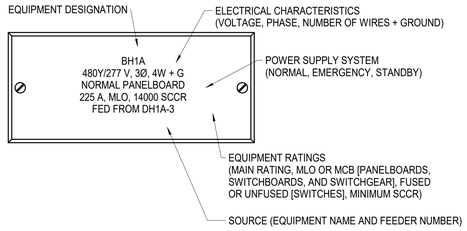
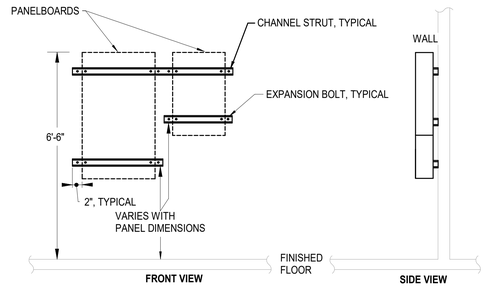
7 E-603 EQUIPMENT NAMEPLATES — NTS

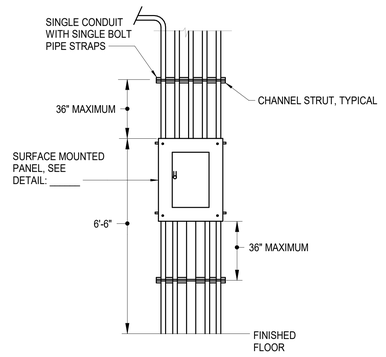


NOTES:
1. NAMEPLATE BACKGROUND COLORS SHALL BE BLACK FOR NORMAL POWER SUPPLY SYSTEMS, RED FOR LEGALLY REQUIRED EMERGENCY POWER SUPPLY SYSTEMS, AND YELLOW FOR OPTIONAL STANDBY POWER SUPPLY SYSTEMS.

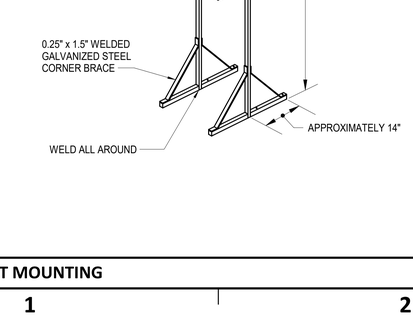
4 E-603 WALL-MOUNTED PANELBOARD MOUNTING — NTS



1 E-603 CONDUIT SUPPORT FOR SURFACE-MOUNTED PANELS — NTS

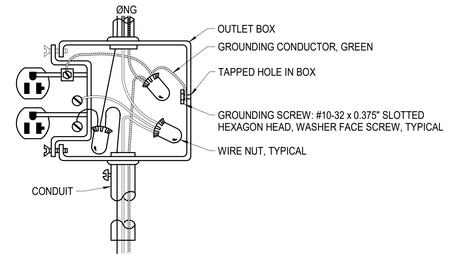


8 E-603 SUSPENDED DRY-TYPE TRANSFORMERS — NTS



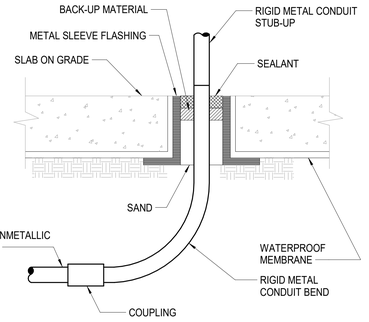
NOTES:
1. PROVIDE ROD STIFFENER ON EACH THREADED ROD AND LATERAL SUPPORT AT EACH CORNER FOR SEISMIC RESTRAINT.

5 E-603 RECEPTACLE WIRING — NTS



NOTES:
1. GROUNDING CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.

2 E-603 CONDUIT PENETRATIONS — NTS

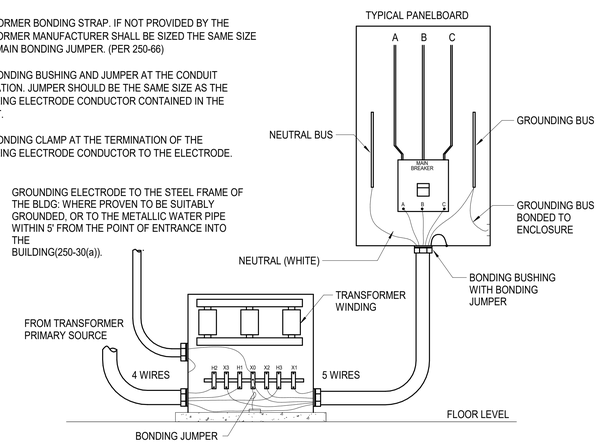


NOTES:
1. USE FOR CONDUITS STUBBED-UP THROUGH SLABS ON GRADE WHERE NOT CONCEALED IN WALL CONSTRUCTION, AND CONDUITS 1.25" AND LARGER.
2. TREAT RIGID METAL CONDUIT BELOW GRADE AS SPECIFIED.

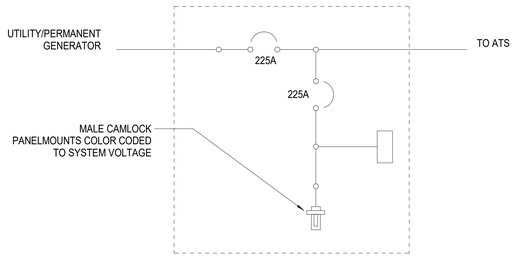
9 E-603 DISCONNECT MOUNTING — NTS

6 E-603 DRY-TYPE TRANSFORMER GROUNDING DETAIL — NTS

NOTES:
1. TRANSFORMER BONDING STRAP. IF NOT PROVIDED BY THE TRANSFORMER MANUFACTURER SHALL BE SIZED THE SAME SIZE AS THE MAIN BONDING JUMPER. (PER 250-66)
2. USE A BONDING BUSHING AND JUMPER AT THE CONDUIT TERMINATION. JUMPER SHOULD BE THE SAME SIZE AS THE GROUNDING ELECTRODE CONDUCTOR CONTAINED IN THE CONDUIT.
3. USE A BONDING CLAMP AT THE TERMINATION OF THE GROUNDING ELECTRODE CONDUCTOR TO THE ELECTRODE.



3 E-603 SINGLE BREAKER GENERATOR DOCKING STATION — NTS



NOTES:
1. CIRCUIT BREAKERS SHALL HAVE THE SAME CHARACTERISTICS AS CIRCUIT BREAKERS PROVIDED IN GENERATOR.

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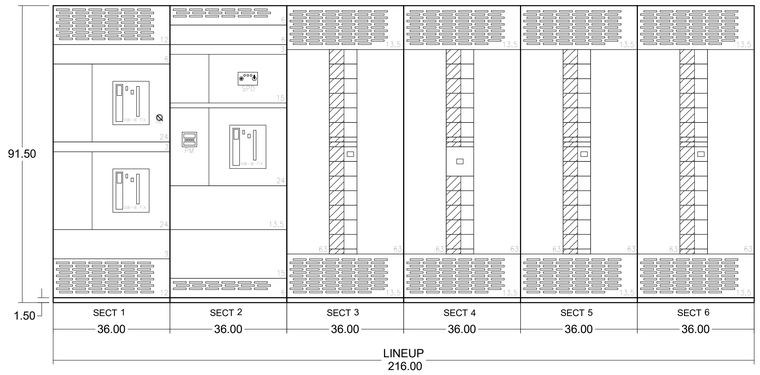
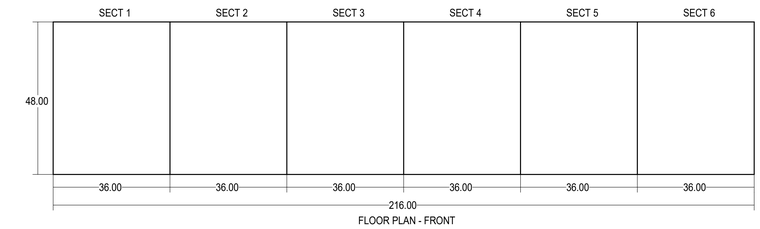
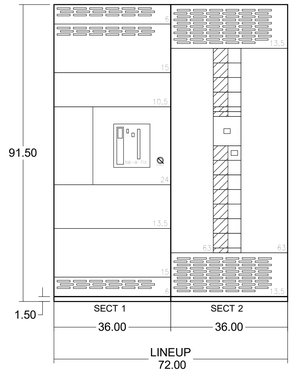
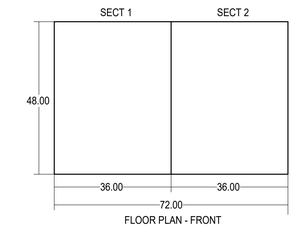


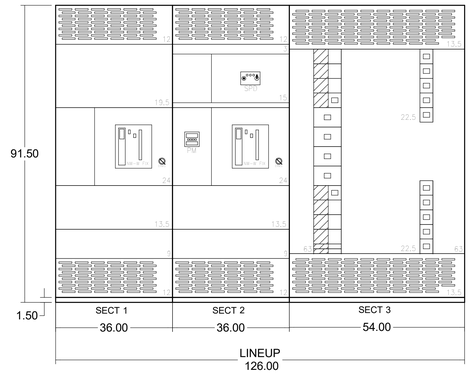


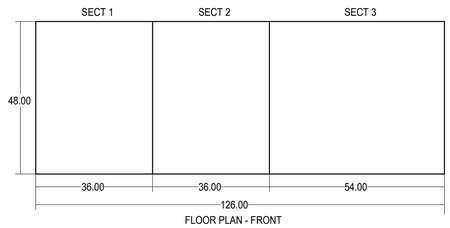
4 E-604	SWITCHBOARD ESB ELEVATION	NTS



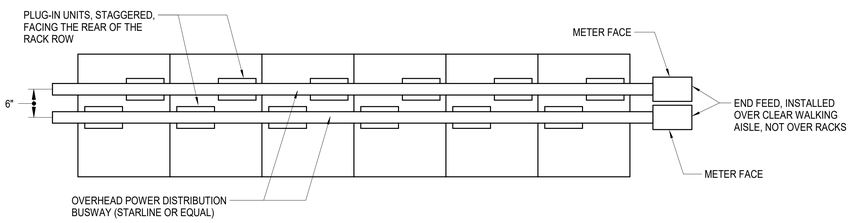


3 E-604	SWITCHBOARD NSB ELEVATION	NTS



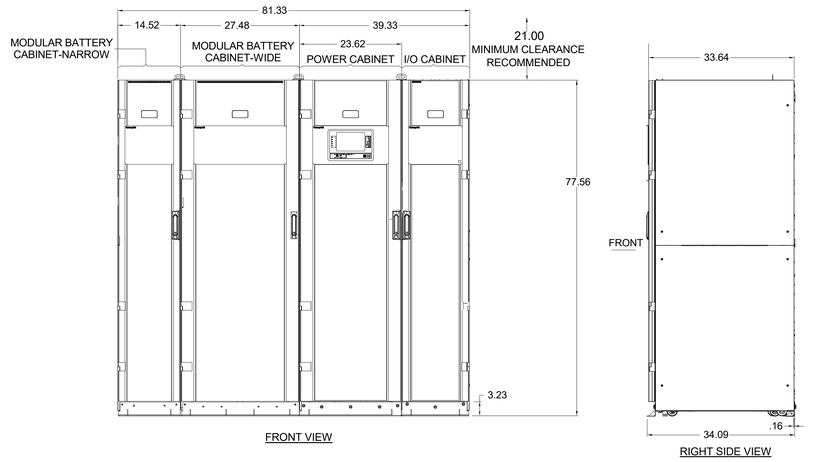


1 E-604	SWITCHBOARD MSB-T ELEVATION	NTS



NOTES:
1. PROVIDE A BUSWAY SYSTEM, STARLINE BY UNIVERSAL ELECTRICAL PRODUCTS OR EQUAL. IN ADDITION TO THE COMPONENTS LISTED IN THESE NOTES. PROVIDE ALL MATERIALS AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.
2. COORDINATE THE SUPPORT RODS WITH THE CABLE RUNWAYS AND OTHER TRADES TO AVOID CONFLICT WITH DUCTS, PIPING, AND EQUIPMENT, WHERE ATTACHMENT DIRECTLY TO THE BUILDING STRUCTURE IS NOT CHANNEL TRAPEZE HANGERS (SUPPORTED FROM THE STRUCTURE AT EACH END) BELOW THE OBSTRUCTION AND SUPPORT THE BUSWAY TRAPEZE FROM THIS HANGER. SPACE THE TRAPEZE HANGERS A MINIMUM OF 10 FEET ON CENTER OR MORE OFTEN AS REQUIRED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL SUPPORTS AT THE END FEED JUNCTION BOXES.
3. PROVIDE THE FOLLOWING COMPONENTS:
   - 3/8 INCH ROD HANGERS
   - 225 AMPERE BUSWAY (PROVIDE LENGTHS AS SHOWN ON DRAWINGS)
   - PROVIDE END FEED JUNCTION BOXES WITH DIGITAL POWER MONITORING. PROVIDE METER ORIENTATION AND POLARIZATION BASED ON THE ROOM LAYOUT.
   - BUSWAY ENDCAPS FOR END OF RUNS
   - BUSWAY COUPLERS
   - MANUFACTURER SPECIALITY INSTALLATION TOOL (PROVIDE ONE INSTALLATION TOOL)
4. PROVIDE OUTLET DEVICE BOXES (PLUG IN UNITS) IN QUANTITIES AND LOCATIONS WHERE SHOWN ON PLANS:
   - NEMA L21-20P IN A SINGLE ENCLOSURE WITH A THREE POLE, 20 AMPERE BREAKER
5. COORDINATE THE MOUNTING HEIGHT WITH THE RACK HEIGHT, CABLE TRAY LOCATIONS, AND ROOM CONDITIONS. MOUNT THE BUSWAY SO THAT IT IS 12" ABOVE THE HEIGHT OF THE CABLE TRAY TO THE UNDERSIDE OF THE BUSWAY.
6. INSTALL THE BUSWAY SO THAT IT IS OVER THE REAR OF THE RACKS AND THE OUTLETS FACE TOWARD THE REAR OF THE RACKS.

5 E-604	OVERHEAD POWER DISTRIBUTION BUSSWAY	NTS



2 E-604	TYPICAL UPS ELEVATION	NTS

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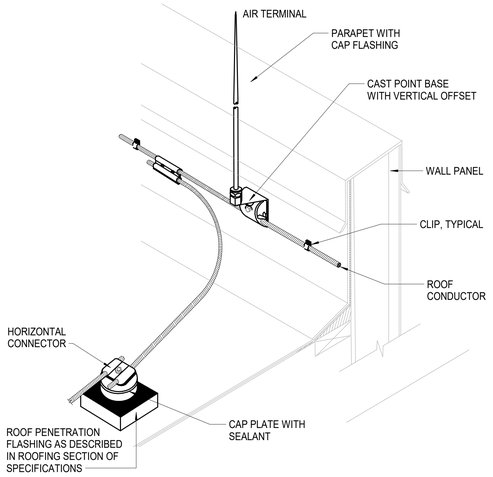
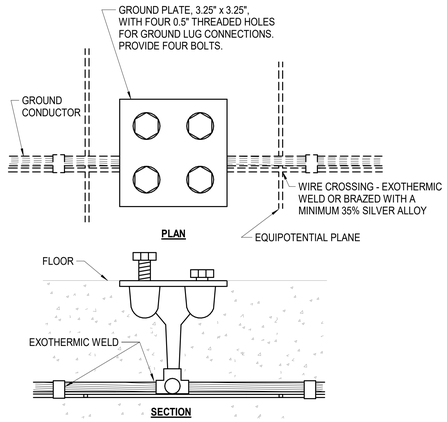


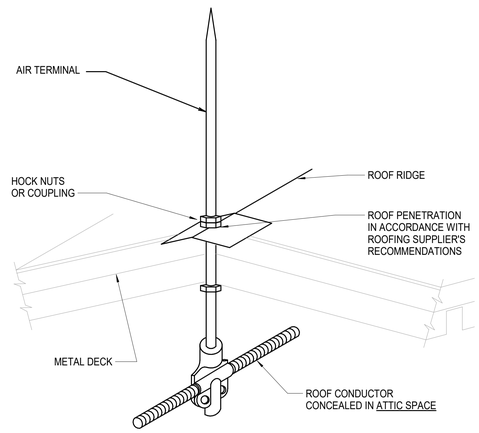
6		
E-605	**PARAPET MOUNTED AIR TERMINALS**	**NTS**



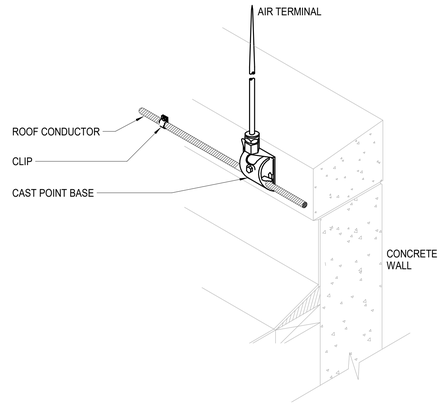
3		
E-605	**LOCAL GROUND CONNECTION POINTS**	**NTS**

LIGHTNING PROTECTION SYSTEM GENERAL NOTES

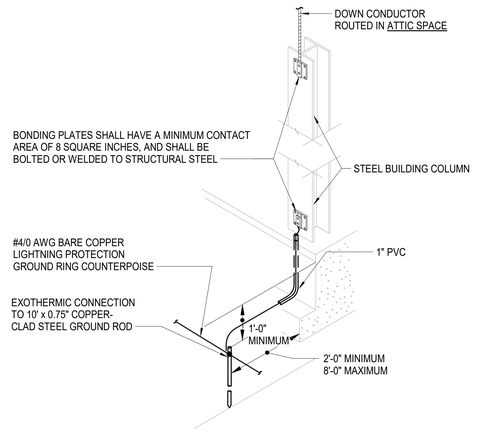
1. CONDUCTORS SHALL INTERCONNECT AIR TERMINALS AND FORM A TWO-WAY PATH FROM EACH POINT, HORIZONTALLY OR DOWNWARD, TO CONNECTIONS WITH GROUND TERMINALS.
2. LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NO MORE THAN 36" OC.
3. NO BEND OF CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° OR HAVE A RADIUS OF BEND LESS THAN 8". ANY RISE IN A HORIZONTAL CONDUCTOR RUN SHALL NOT EXCEED 6".
4. AIR TERMINALS SHALL BE PLACED 20' OC MAXIMUM AROUND ROOF PERIMETER OR RIDGE AND WITHIN 2' OF OUTSIDE EDGE AND SHALL PROJECT A MINIMUM OF 10" ABOVE THE AREA PROTECTED.
5. MIDROOF AIR TERMINALS SHALL BE PLACED 50' OC MAXIMUM.
6. PRIMARY METAL BODIES (OF CONDUCTANCE) LOCATED ABOUT THE ROOF (EXHAUST FANS, COOLING TOWERS, ETC) SHALL BE BONDED WITH FULL SIZE CONDUCTORS AND FITTED WITH AIR TERMINALS IF THEY ARE AS HIGH, OR HIGHER, THAN ADJACENT AIR TERMINALS, UNLESS LOCATED ENTIRELY WITHIN A ZONE OF PROTECTION AS DEFINED BY CODE.
7. SECONDARY METAL BODIES (OF INDUCTANCE) LOCATED ABOUT THE ROOF (FLASHINGS, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, LOUVERS, DOOR FRAMES, ETC) WITHIN 6' OF THE MAIN CONDUCTOR OR BONDED BODY SHALL BE INTERCONNECTED WITH SECONDARY BONDING CONDUCTORS.
8. BIMETAL CONNECTORS SHALL BE USED WHERE DISSIMILAR METALS COME IN CONTACT WITH EACH OTHER. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM SURFACES NOR SHALL ALUMINUM BE INSTALLED ON COPPER SURFACES.
9. CONNECTIONS TO GROUND RODS (OR COUNTERPOISE) SHALL BE MADE NO LESS THAN 2' BELOW GRADE AND 2' FROM FOUNDATION.
10. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER.
11. ELECTRIC AND TELEPHONE SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO THE LIGHTNING PROTECTION SYSTEM GROUND.
12. CONNECTIONS OF UNDERGROUND METAL PIPING SYSTEMS TO THE LIGHTNING PROTECTION SYSTEM GROUND SHALL BE MADE AT THEIR SERVICE ENTRANCE TO STRUCTURE.
13. ADHESIVE FIXTURES SHALL BE SET WITH AN ADHESIVE COMPOUND COMPATIBLE WITH THE ROOFING MATERIALS. ADHESIVE SHALL BE APPROVED IN ADVANCE BY ROOFING CONTRACTOR.
14. SEAL ENDS OF CONDUITS MOISTURETIGHT WITH DUCT SEAL OR LEAD WEDGES UNLESS OTHERWISE INDICATED.
15. WHERE THE STRUCTURAL STEEL FRAMEWORK IS UTILIZED AS MAIN CONDUCTORS FOR THE SYSTEM, PERIMETER COLUMNS SHALL BE GROUNDED AT INTERVALS AVERAGING NOT MORE THAN 60' APART. COLUMNS SHALL BE GROUNDED USING BONDING PLATES HAVING 8 SQUARE INCHES OF SURFACE CONTACT AREA OR BY EXOTHERMIC WELDED CONNECTIONS.



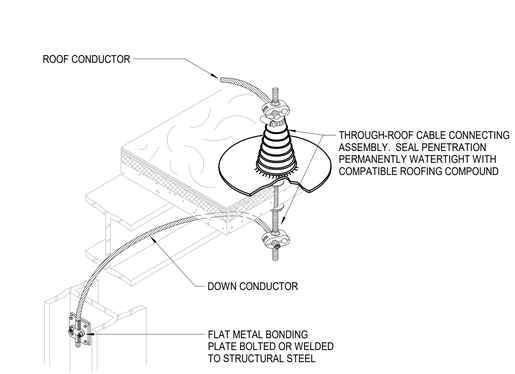
4		
E-605	**THROUGH-RIDGE AIR TERMINALS**	**NTS**



1		
E-605	**PARAPET MOUNTED AIR TERMINALS**	**NTS**



5		
E-605	**GROUNDING TERMINALS**	**NTS**



2		
E-605	**THROUGH-ROOF CONNECTIONS TO STEEL**	**NTS**

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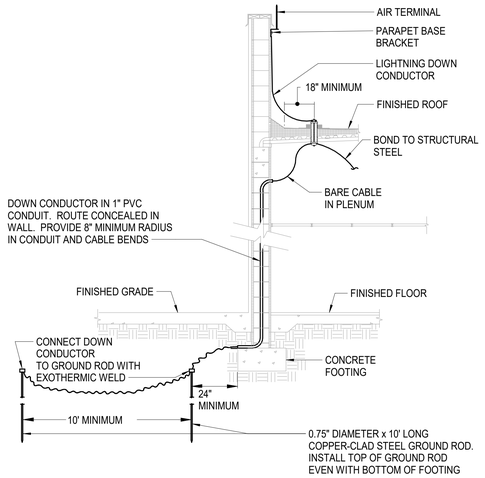
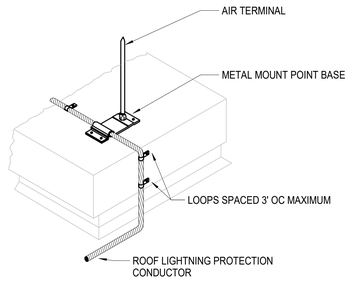
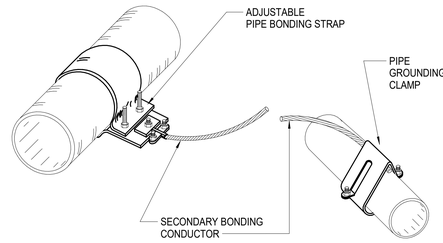


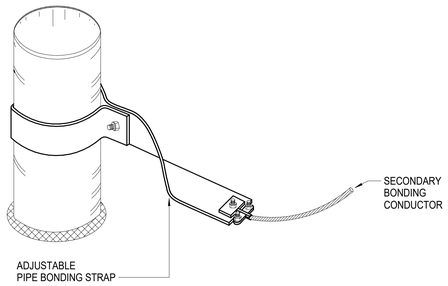
7 / E-606	LIGHTNING DOWN CONDUCTORS	NTS



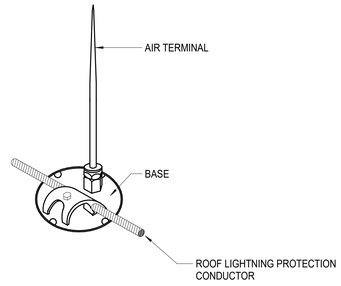
4 / E-606	AIR TERMINALS ON METAL ROOFTOP EQUIPMENT	NTS



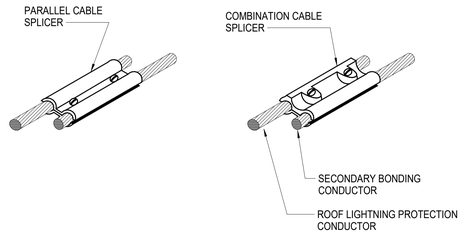
1 / E-606	PIPE BONDING CONNECTIONS	NTS



8 / E-606	VENT PIPE BONDING STRAPS	NTS

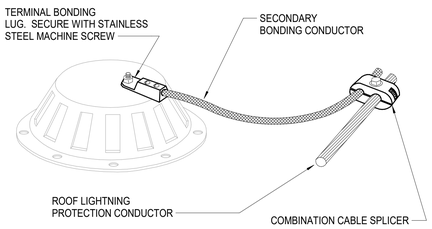


5 / E-606	ADHESIVE POINT BASES	NTS

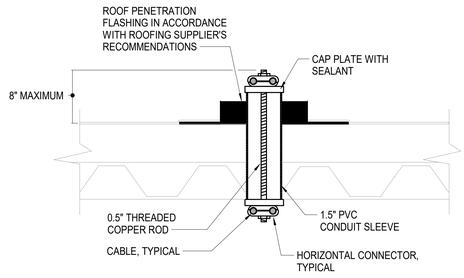


NOTES:
1. USE BIMETAL PARALLEL CLAMPS FOR CONDUCTORS OF DISSIMILAR METALS.

2 / E-606	CABLE SPLICERS	NTS



6 / E-606	ROOF DRAIN BONDS	NTS



3 / E-606	MECHANICAL THROUGH-ROOF CONNECTOR ASSEMBLY	NTS

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL DETAILS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-606

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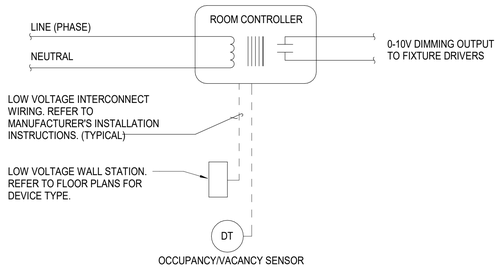
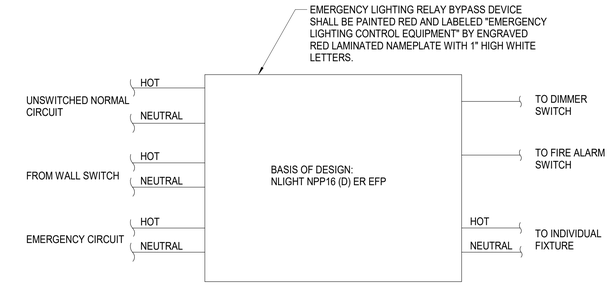
1 2 3 4 5 6



NOTES:

1. LOW VOLTAGE SWITCH SHALL HAVE FUNCTIONALITY (SWITCHING, OCCUPANCY OR DIMMING) AND NUMBER OF BUTTONS REQUIRED TO ACCOMMODATE ZONE SELECTION, ON/OFF SWITCHING AND RAISE/LOW CONTROL OF SELECTED ZONE.
2. ROOM CONTROLLERS SHALL BE LOCATED ABOVE THE NEAREST ACCESSIBLE CEILING.
3. REFER TO FLOOR PLANS FOR QUANTITY, LOCATIONS OF SWITCHES AND NUMBER OF ZONES CONTROLLED. PROVIDE POWER PACKS AS REQUIRED.
4. ROOM CONTROLLERS AND LOW VOLTAGE DIMMERS SHALL BE COMPATIBLE.
5. OCCUPANCY SENSOR SHALL ACT AS A "VACANCY SENSOR" (MANUAL ON, AUTOMATIC OFF) AND TURN LIGHTING OFF IF PERSON IS NO LONGER DETECTED IN THE ROOM. PROVIDE VACANCY TYPE SENSORS WHERE INDICATED ON FLOOR PLANS. PROVIDE OCCUPANCY TYPE SENSORS IN ALL OTHER AREAS.
6. LIGHTING CONTROL SYSTEM SHALL BE BY ONE OF THE FOLLOWING MANUFACTURERS: LITHONIA N-LIGHT, WATTSTOPPER DLM OR EATON GREENGATE.

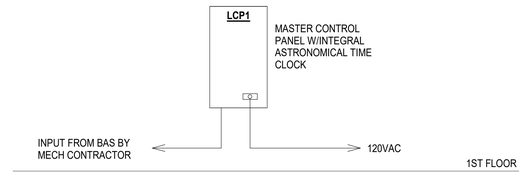
5 / E-607 — LOW VOLTAGE LIGHTING CONTROL SYSTEM DIAGRAM — NTS



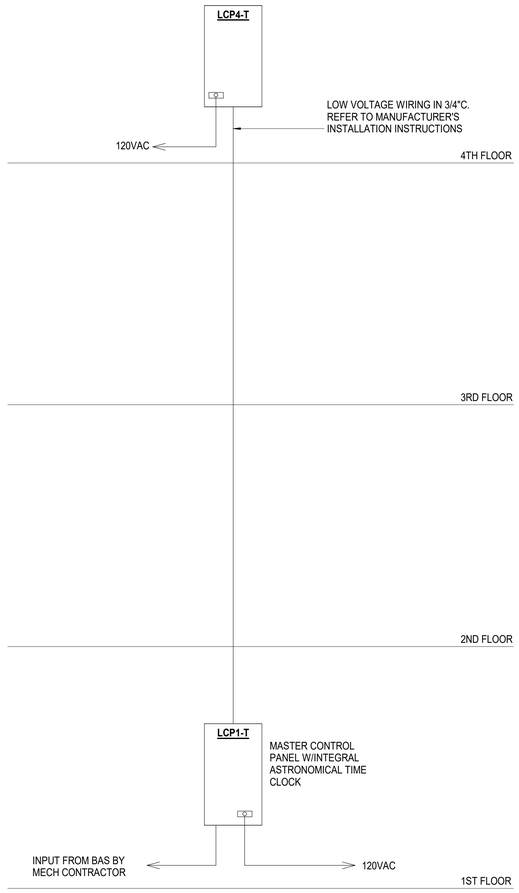
NOTES:

1. WHEN NORMAL POWER IS LOST EMERGENCY CIRCUIT SHALL BRING INDIVIDUAL LIGHT FIXTURE TO FULL BRIGHTNESS. ELR SHALL BE COMPATIBLE WITH DIMMING DRIVERS PROVIDED WITH LUMINAIRES.
2. ELR'S SHOWN ON PLANS ARE FOR DIAGRAMMATIC PURPOSES ONLY. ELR SHALL BE MOUNTED NEATLY TO STRUCTURE.

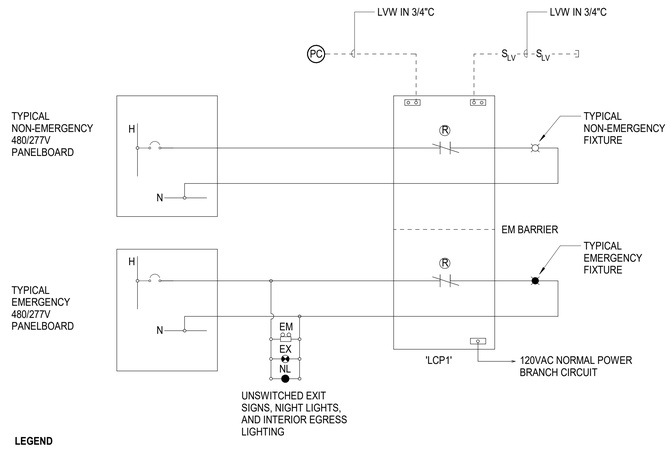
3 / E-607 — EMERGENCY LIGHTING RELAY SCHEME — NTS



1 / E-607 — EOC BUILDING LIGHTING CONTROL RELAY PANEL RISER DIAGRAM — NTS



6 / E-607 — TOWER BUILDING LIGHTING CONTROL RELAY PANEL RISER DIAGRAM — NTS



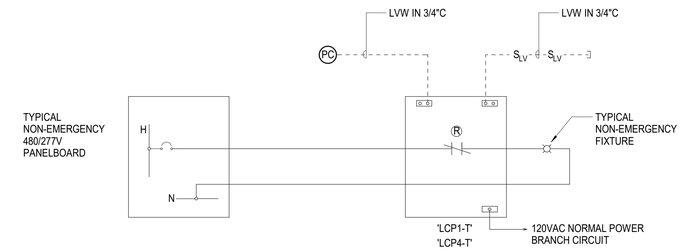
LEGEND

S_{LV}	LOW VOLTAGE OVERRIDE SWITCH
R	LOW VOLTAGE RELAY
LCP	LIGHTING CONTROL PANEL
LVW	LOW VOLTAGE DATA CABLE PER MFR
PC	EXTERIOR PHOTOCELL

NOTES:

1. PROVIDE LIGHTING RELAY PANEL WITH 24 RELAYS INCLUDING NORMAL AND EMERGENCY RELAYS, EQUIVALENT TO WATTSTOPPER LMCP SERIES.

4 / E-607 — EOC BUILDING LIGHTING CONTROL RELAY PANEL DIAGRAM — NTS



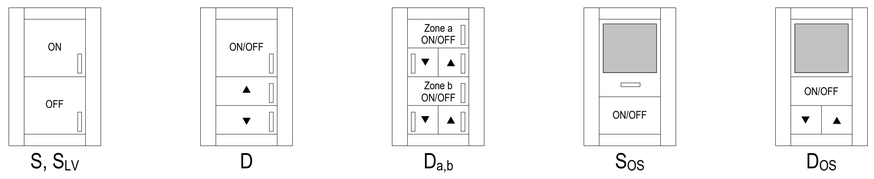
LEGEND

S_{LV}	LOW VOLTAGE OVERRIDE SWITCH
R	LOW VOLTAGE RELAY
LCP	LIGHTING CONTROL PANEL
LVW	LOW VOLTAGE DATA CABLE PER MFR
PC	EXTERIOR PHOTOCELL

NOTES:

1. PROVIDE LIGHTING RELAY PANEL WITH 12 RELAYS, EQUIVALENT TO WATTSTOPPER LMCP SERIES.

2 / E-607 — TOWER BUILDING LIGHTING CONTROL RELAY PANEL DIAGRAM — NTS



7 / E-607 — TYPICAL LOW VOLTAGE LIGHTING SWITCH CONFIGURATIONS — NTS

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

NEW HANOVER COUNTY GOVERNMENT CENTER

CLEAN AGENT
SEQUENCE OF OPERATIONS

SYSTEM OUTPUTS

SYSTEM INPUTS		A	B	C	D	E	F	G	H	I
		RECORD EVENT IN HISTORY LOG	DISPLAY CHANGE OF STATUS ON FACP & SOUND AUDIBLE PANEL BUZZER	DISPLAY CHANGE OF STATUS ON REMOTE LCD ANNUNCIATORS	ACTIVATE RELEASE - WARNING LIGHT	ACTUATE AUDIBLE AND VISUAL EVACUATION SIGNALS	ACTUATE CLEAN AGENT DISCHARGE WARNING LIGHT AND SIGN	TRANSMIT TROUBLE SIGNAL VIA DACT	TRANSMIT ALARM SIGNAL VIA DACT	TRANSMIT SUPERVISORY SIGNAL VIA DACT
MANUAL CLEAN AGENT RELEASE STATION	1	●	●	●	●		●	●		
FIRST AREA SMOKE DETECTOR	2	●	●	●	●					●
SECOND AREA SMOKE DETECTOR	3	●	●	●	●	●	●		●	
RELEASE PANEL TROUBLE	4	●	●	●				●		
RELEASE PANEL LOSS OF 120VAC POWER	5	●	●	●				●		
RELEASE PANEL LOW BATTERY	6	●	●	●				●		

2 / FA-001 CLEAN AGENT OPERATING SEQUENCE — NO SCALE

NEW HANOVER COUNTY GOVERNMENT CENTER

FIRE ALARM
SEQUENCE OF OPERATIONS

SYSTEM OUTPUTS

CONTROL UNIT ANNUNCIATION | NOTIFICATION | FIRE SAFETY CONTROL | SUPPLEMENTARY

SYSTEM IMPUTS			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE
			DISPLAY MESSAGE ON FACP AND REMOTE LCD PANELS	ACTUATE AUDIBLE ALARM ON FACP	RECORD EVENT IN HISTORY LOG	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE SUPERVISORY ALARM SIGNAL INDICATOR	ACTIVATE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE TROUBLE SIGNAL	ACTIVATE 3 TONE ALERT SIGNAL FOLLOWED BY AUTOMATIC VOICE MESSAGING	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	SHUNT TRIP ELEVATOR CONTROLLER POWER - DELAY TILL ELEVATOR REACHES FLOOR	PRIMARY LEVEL ELEVATOR RECALL	ALTERNATIVE LEVEL ELEVATOR RECALL	ELEVATOR HAT FLASH	SHUT DOWN RESPECTIVE HVAC UNIT	CLOSE SMOKE DAMPERS IN RATED WALLS	ACTUATE OUTSIDE ELECTRIC BELL	RELEASE DOOR HOLD OPENS	SILENCE AUDIBLE SIGNAL	SYSTEM RESET IS TO NORMAL								
ALARM	MANUAL PULL STATION	1	●	●	●	●	●						●					●												●			
	AREA-TYPE SMOKE DETECTOR - LOCAL DETECTOR	2	●	●	●	●	●						●					●												●			
	AREA-TYPE SMOKE DETECTOR - ELEVATOR MACHINE ROOM	3	●	●	●	●	●						●					●					●		●					●			
	AREA-TYPE SMOKE DETECTOR - ELEVATOR SHAFT	4	●	●	●	●	●						●					●					●		●					●			
	AREA-TYPE SMOKE DETECTOR - PRIMARY FLOOR LOBBY	5	●	●	●	●	●						●					●						●						●			
	AREA-TYPE SMOKE DETECTOR - SECONDARY FLOOR LOBBY OR ANY OTHER FLOOR EXCEPT PRIMARY	6	●	●	●	●	●						●					●						●						●			
	HEAT DETECTOR - LOCAL DETECTOR	7	●	●	●	●	●						●					●												●			
	HEAT DETECTOR - ELEVATOR MACHINE ROOM	8	●	●	●	●	●						●					●				●								●			
	HEAT DETECTOR - ELEVATOR SHAFT	9	●	●	●	●	●						●					●				●								●			
	WATER FLOW SWITCH	10	●	●	●	●	●						●					●										●		●			
	FIRE PUMP RUNNING	11	●	●	●	●	●						●					●												●			
		12																															
		13																															
		14																															
SUPERVISORY	DUCT SMOKE DETECTOR	15	●	●	●			●	●										●							●	●						
	PUBLIC SAFETY DISTRIBUTED ANTENNA SYSTEM INTERRUPTION (IF SIGNAL STRENGTH REQUIRES)	16	●	●	●			●	●										●														
	ELEVATOR SHUNT TRIP POWER SUPERVISION	17	●	●	●			●	●										●														
	TAMPER SWITCH ACTIVATION	18	●	●	●			●	●										●														
	KNOX BOX TAMPER	19	●	●	●			●	●										●														
		20																															
TROUBLE	OPEN CIRCUIT	21	●	●	●					●	●									●													
	GROUND FAULT	22	●	●	●					●	●									●													
	COMMUNICATION FAILURE - DIALER TO MONITORING STATION	23	●	●	●					●	●									●													
	NOTIFICATION APPLIANCE CIRCUIT - WIRE SHORT	24	●	●	●					●	●									●													
	SIGNALING LINE CIRCUIT - WIRE SHORT	25	●	●	●					●	●									●													
	FIRE ALARM 120AC POWER FAILURE	26	●	●	●					●	●									●													
	FIRE ALARM SYSTEM LOW BATTERY	27	●	●	●					●	●									●													
	FIRE PUMP POWER FAILURE	28	●	●	●					●	●									●													
	FIRE PUMP POWER PHASE REVERSAL	29	●	●	●					●	●									●													
	EXPIRATION OF SUPERVISORY TIME DELAY	30	●	●	●					●	●									●													
	LOSS OF FIRE FIGHTER RADIO REPEATER SIGNAL	31	●	●	●					●	●									●													
	RADIO REPEATER ANTENNA FAILURE/TROUBLE	32	●	●	●					●	●									●													
	RADIO REPEATER LOSS OF POWER	33	●	●	●					●	●									●													
	TWO WAY COMMUNICATION SYSTEM TROUBLE/FAULT	34	●	●	●					●	●									●													
	TWO WAY COMMUNICATION SYSTEM LOSS OF POWER	35	●	●	●					●	●									●													
	TWO WAY COMMUNICATION SYSTEM LOW BATTERY	36	●	●	●					●	●									●													
		37																															
SYSTEM FUNCTIONS	ALARM SIGNAL STOP/SILENCE	38			●																										●		
	SYSTEM RESET	39			●																												●

1 / FA-001 FIRE ALARM OPERATING SEQUENCE — NO SCALE

FIRE ALARM NOTES AND CRITERIA

1. FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 72-2013 AND NORTH CAROLINA BUILDING CODE-2018.
2. FIRE ALARM WIRING SHALL BE INSTALLED IN EMT MINIMUM 0.75"
3. NOTIFICATION CIRCUITS SHALL BE ARRANGED CLASS B AS DEFINED BY NFPA 72. SIGNALING LINE CIRCUITS SHALL BE ARRANGED CLASS A AS DEFINED BY NFPA 72.
4. AUDIBLE AND VISUAL FIRE ALARM NOTIFICATION APPLIANCES SHALL OPERATE SIMULTANEOUSLY THROUGHOUT THE ENTIRE BUILDING. PATHWAY SURVIVABILITY IS LEVEL 0.
5. FIRE ALARM SYSTEM WILL MONITOR BUILDING SYSTEMS SUCH AS FIRE SUPPRESSION, HVAC, AND EMERGENCY RESPONDER RADIO COVERAGE ENHANCEMENT SYSTEM. ERRC SYSTEM TO BE DESIGNED BY OTHERS AND EQUIPMENT TO BE LOCATED IN TELECOM ROOMS.
6. ALL STROBES IN THE BUILDING SHALL FLASH AT A SYNCHRONIZED RATE. THE SYNCHRONIZING MECHANISM MAY BE LOCATED WITHIN THE CONTROL PANEL OR WITHIN THE INDIVIDUAL LIGHTS.
7. PROVIDE A DEDICATED NOTIFICATION APPLIANCE CIRCUIT FOR THE EXTERIOR WATER FLOW ALARM BELL.
8. SMOKE DETECTORS SHALL BE LOCATED AT LEAST 3'-0" FROM ANY AIR MOVEMENT DEVICE, INCLUDING BUT NOT LIMITED TO SUPPLY DIFUSERS AND RETURN/EXHAUST GRILLES.
9. PROVIDE A SURGE PROTECTIVE DEVICE ON ALL SIGNALING LINE CIRCUITS LEAVING THE BUILDING.
10. VALVES SHALL BE MONITORED IN THE OPEN POSITION UNLESS NOTED OTHERWISE. VALVES INDICATED AS NORMALLY CLOSED SHALL BE MONITORED SUCH THAT A SUPERVISORY SIGNAL IS GENERATED WHEN THE VALVE IS NOT FULLY CLOSED.
11. TWO WAY COMMUNICATION SYSTEM TO BE PROVIDED BY OTHERS AND MONITORED BY FIRE ALARM. PROVIDE ALL NECESSARY MONITORING COMPONENTS. COORDINATE WITH TELECOM/LOW VOLTAGE CONTRACTOR.
12. COORDINATE WITH CITY OF WILMINGTON FOR ORDERING OF KNOX BOX.
13. FIRE ALARM CONTRACTOR SHALL SUBMIT COMPREHENSIVE OPERATION SEQUENCES FOR BOTH FIRE ALARM SYSTEM AND CLEAN AGENT RELEASE SYSTEM.
14. PROVIDE 2" CONDUIT BETWEEN ERRC PANEL AND ANTENNA ON THE ROOF. MAINTAIN A 2-HOUR PATHWAY FOR ERRC RISERS PER NFPA 72.

FIRE ALARM LEGEND

AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
C	CEILING-MOUNTED SPEAKER/STROBE
	CEILING-MOUNTED STROBE LIGHT
DH	MAGNETIC DOOR HOLDER
2 RA	DUCT-MOUNTED SMOKE DETECTOR
	HEAT DETECTOR
F	DUAL-ACTION MANUAL PULL STATION
VS	VALVE TAMPER SWITCH
WF	WATER FLOW SWITCH
V	WEATHERPROOF WATER FLOW ALARM BELL
RI	WALL-MOUNTED REMOTE INDICATOR WITH KEYED TEST SWITCH
	WALL-MOUNTED SPEAKER/STROBE
	WALL-MOUNTED STROBE LIGHT
E	DESIGNATED FOR ELEVATOR RECALL
KB	KNOX BOX
A	CLEAN AGENT ABORT SWITCH
P	CLEAN AGENT PULL STATION
A	CLEAN AGENT DISCHARGE WARNING LIGHT - AMBER LENS
KB	KNOX BOX
W	SPEAKER TAP IN WATTS
CD	STROBE RATING IN CANDELA
WP	WEATHERPROOF
LCD	REMOTE LCD ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
SPD	SURGE PROTECTIVE DEVICE
ECB	EMERGENCY CALL BOX
CDU	TWO-WAY COMMUNICATION COMMAND STATION
ERRC	EMERGENCY RESPONDER RADIO COVERAGE

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SHEET NAME:
FIRE ALARM NOTES AND LEGEND

DATE:
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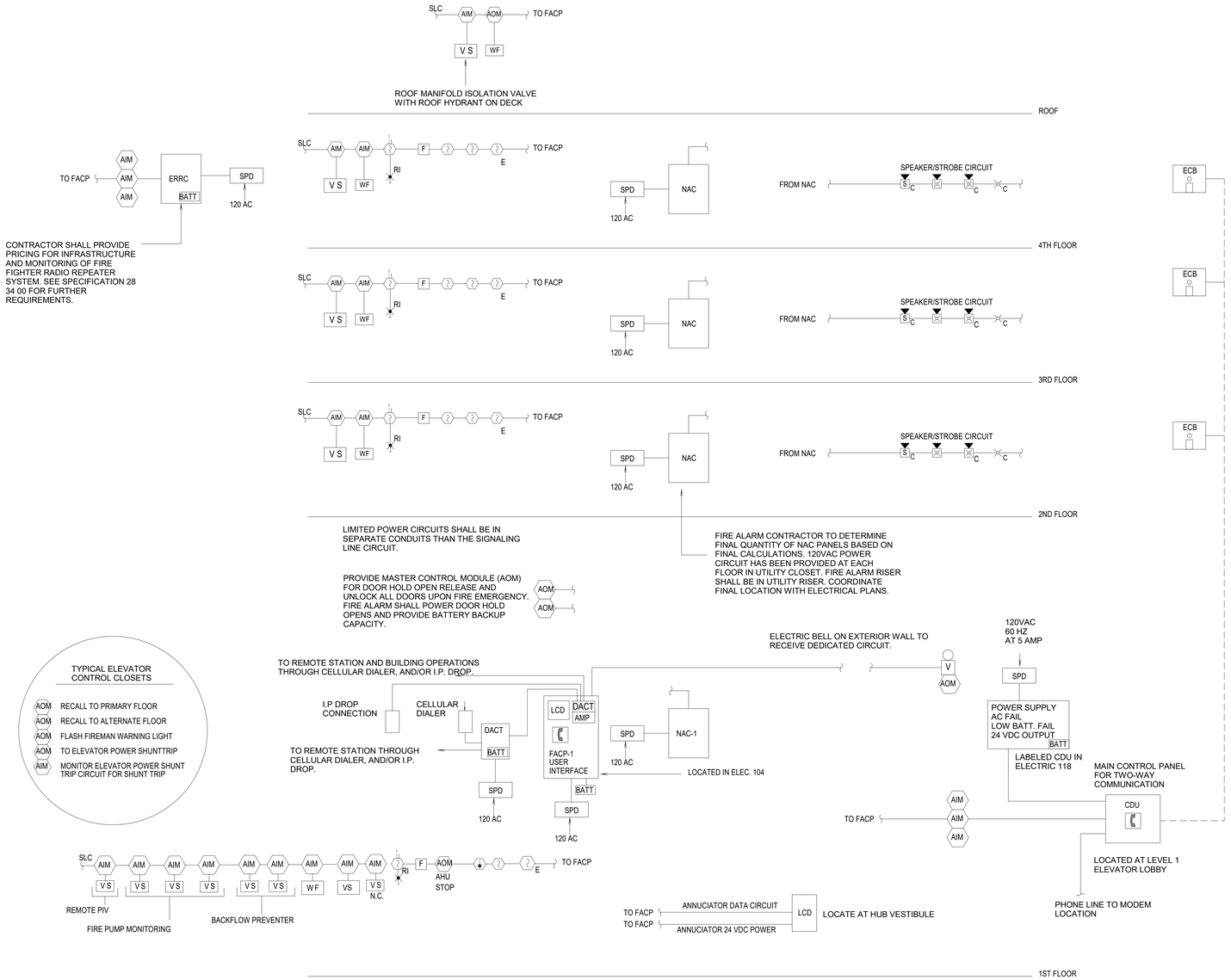

1. RISER DIAGRAM IS DIAGRAMMATIC IN NATURE AND DOES NOT REFLECT QUANTITY OF PANELS, DEVICES, ELEVATIONS, OR ZONING.
2. THE FIRE ALARM SYSTEM IS TO MEET ALL INTERNATIONAL, STATE, AND LOCAL CODES REQUIREMENTS.
3. PROVIDE ALL REQUIRED EQUIPMENT PER IBC SECTION 918 - EMERGENCY RESPONDER RADIO COVERAGE. CONTRACTOR SHALL PROVIDE A COST ALLOWANCE FOR INSTALLATION AND EQUIPMENT/MATERIALS IN PRICING.
4. ALL DEVICES EXPOSED TO OUTSIDE EXTERIOR CONDITIONS OR HUMID ENVIRONMENTS SHALL BE LISTED FOR AND PROVIDED WITH WEATHERPROOF GASKETED BACKING.
5. SYSTEMS AND DEVICES THAT CAN INTERFACE WITH THE FIRE ALARM SYSTEM, BUT NOT LIMITED TO, ARE HVAC DAMPER CONTROL, DOOR LOCK CONTROL, AND SECURITY EQUIPMENT.
6. COORDINATE FINAL DUCT DETECTOR QUANTITY WITH FINAL HVAC SHOP DRAWINGS. DUCT DETECTORS SHALL HAVE REMOTE LED LIGHT AND ALARM WITH A TEST SWITCH. LABEL AND WALL MOUNT AT ACCESSIBLE LOCATIONS. LOCATE WITHIN MECHANICAL SPACES WHEN POSSIBLE. LOCATE DUCT SMOKE DETECTORS IN ACCESSIBLE LOCATION OF DUCTWORK FOR FUTURE MAINTENANCE.
7. ALL FIRE ALARM DEVICES RECEIVING 120 VAC POWER SHALL HAVE A SURGE PROTECTION DEVICE. EACH COMPONENT SHALL RECEIVE OWN SURGE PROTECTION DEVICE.
8. ALL BATTERY SUPPLIES FOR THE FIRE ALARM SYSTEM SHALL BE SIZED TO POWER THE SYSTEM FOR 24 HOURS OF STANDBY AND 15 MINUTES OF ALARM.
9. PROVIDE MAIN FACP WITH SLC DRIVERS, AMPLIFIERS, SKTS, NETWORK CARDS, CPU, AND POWER SUPPLIES REQUIRED.
10. PROVIDE ALL NECESSARY MONITORING EQUIPMENT AND MATERIALS TO MONITOR THE EMERGENCY RESPONDER RADIO REPEATER SYSTEM AND TWO-WAY COMMUNICATION SYSTEM.

1 FA-002 **FIRE ALARM RISER DIAGRAM** NO SCALE

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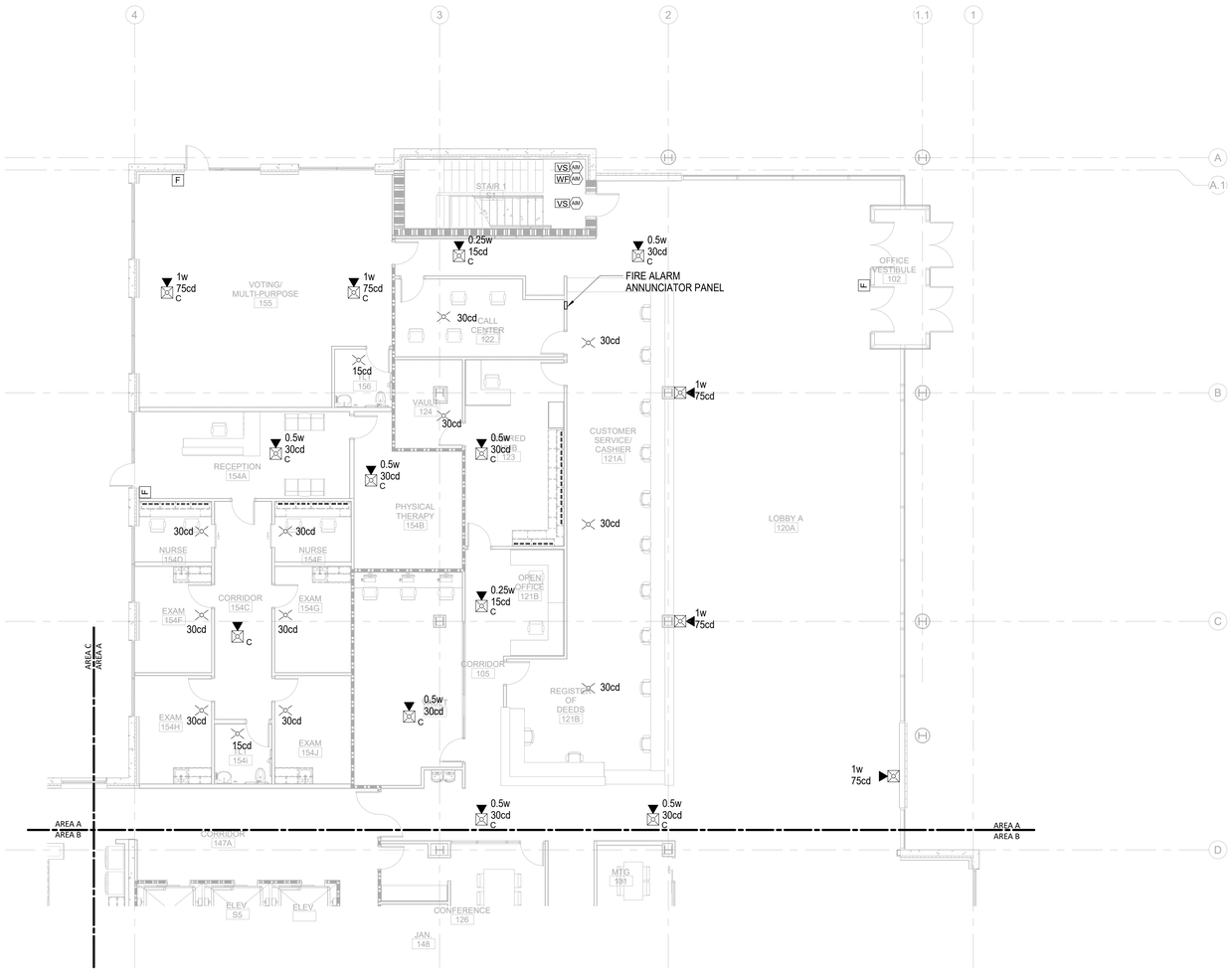

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / FA-101A	FIRE ALARM TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"

11/19/2020 2:38:41 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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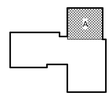
KEY PLAN:



SHEET NAME:
FIRE ALARM FLOOR PLAN - LEVEL 1 - AREA A

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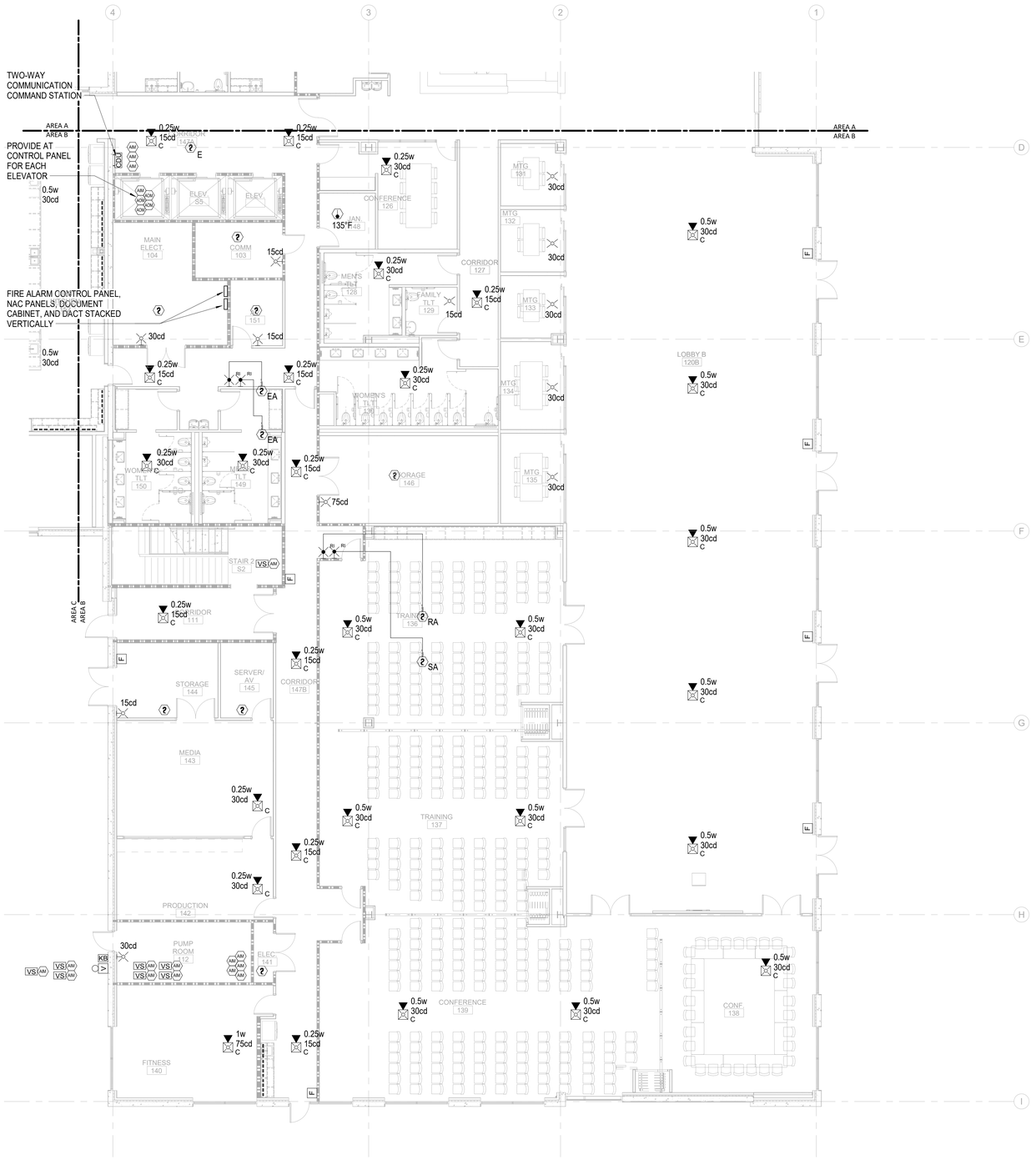

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 FA-101B **FIRE ALARM TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B** 1/8" = 1'-0"

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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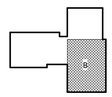

SHEET NAME:
FIRE ALARM FLOOR PLAN - LEVEL 1 - AREA B

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SHEET:
FA-101B

TI GMP SET

Newcomb & Boyd
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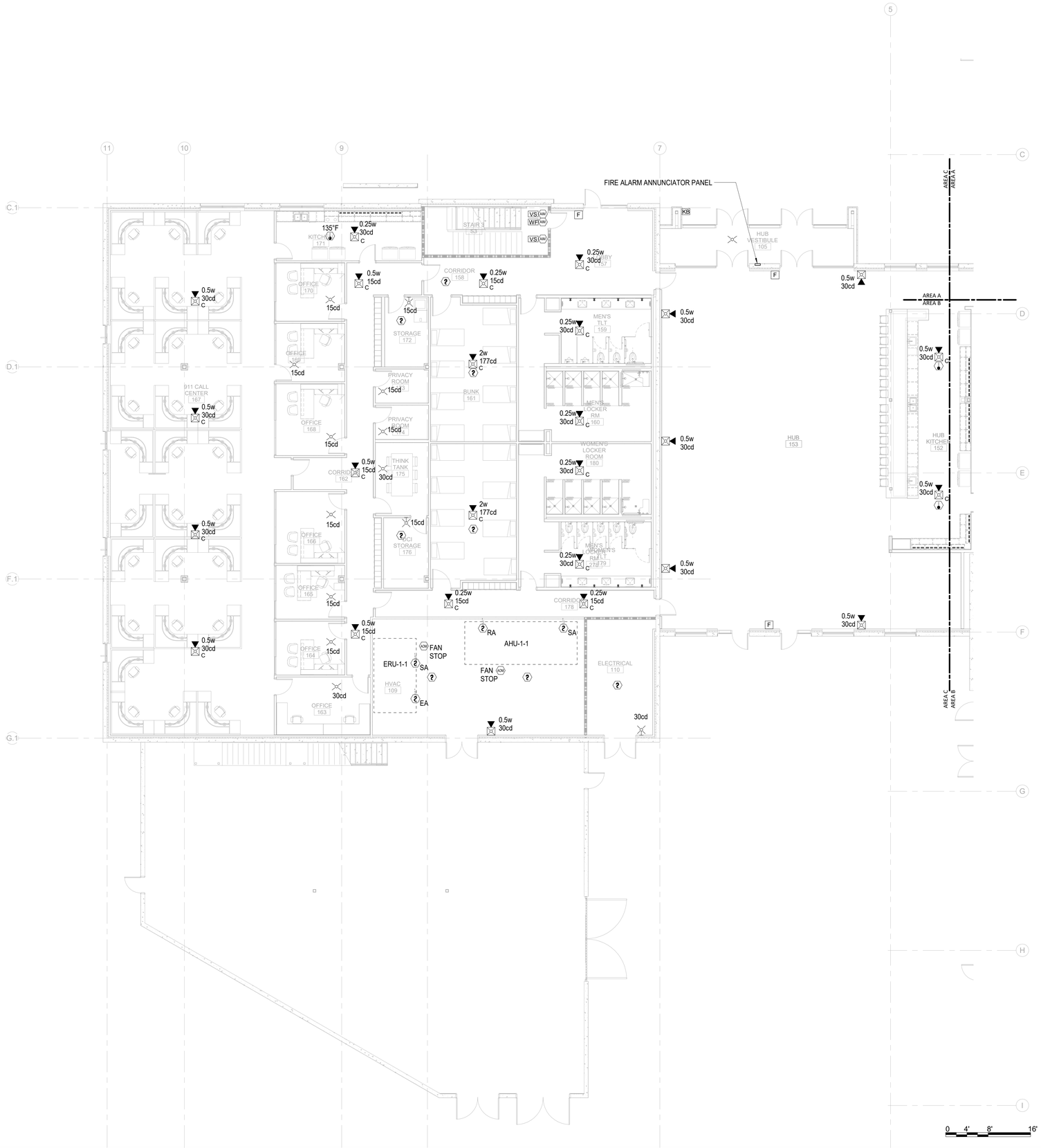
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

1 2 3 4 5 6


FIRE ALARM ANNUNCIATOR PANEL
AREA C
AREA A
AREA B
HUB VESTIBULE 105
HUB 153
HUB KITCHEN 152
STAIR 3 S3
KITCHEN 171
CORRIDOR 158
LOBBY 157
MEN'S TLT 159
MEN'S LOCKER RM 160
WOMEN'S LOCKER ROOM 180
MEN'S WOMEN'S RM 179
BUNK 161
STORAGE 172
PRIVACY ROOM 173
PRIVACY ROOM 174
THINK TANK 175
STORAGE 176
CORRIDOR 178
911 CALL CENTER 167
OFFICE 170
OFFICE 169
OFFICE 168
CORRIDOR 162
OFFICE 166
OFFICE 165
OFFICE 164
OFFICE 163
HVAC 109
ELECTRICAL 110
ERU-1-1
AHU-1-1
FAN STOP
RA
SA
EA
135°F
0.25w 30cd C
0.5w 30cd C
0.5w 15cd C
0.25w 15cd C
2w 177cd C
15cd
30cd
0.5w 30cd
0.25w 30cd C
0.5w 30cd C
0.5w 15cd C
0.25w 15cd C
2w 177cd C
15cd
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0.5w 30cd
0.25w 30cd C
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0.5w 15cd C
0.25w 15cd C
2w 177cd C
15cd
30cd
0.5w 30cd
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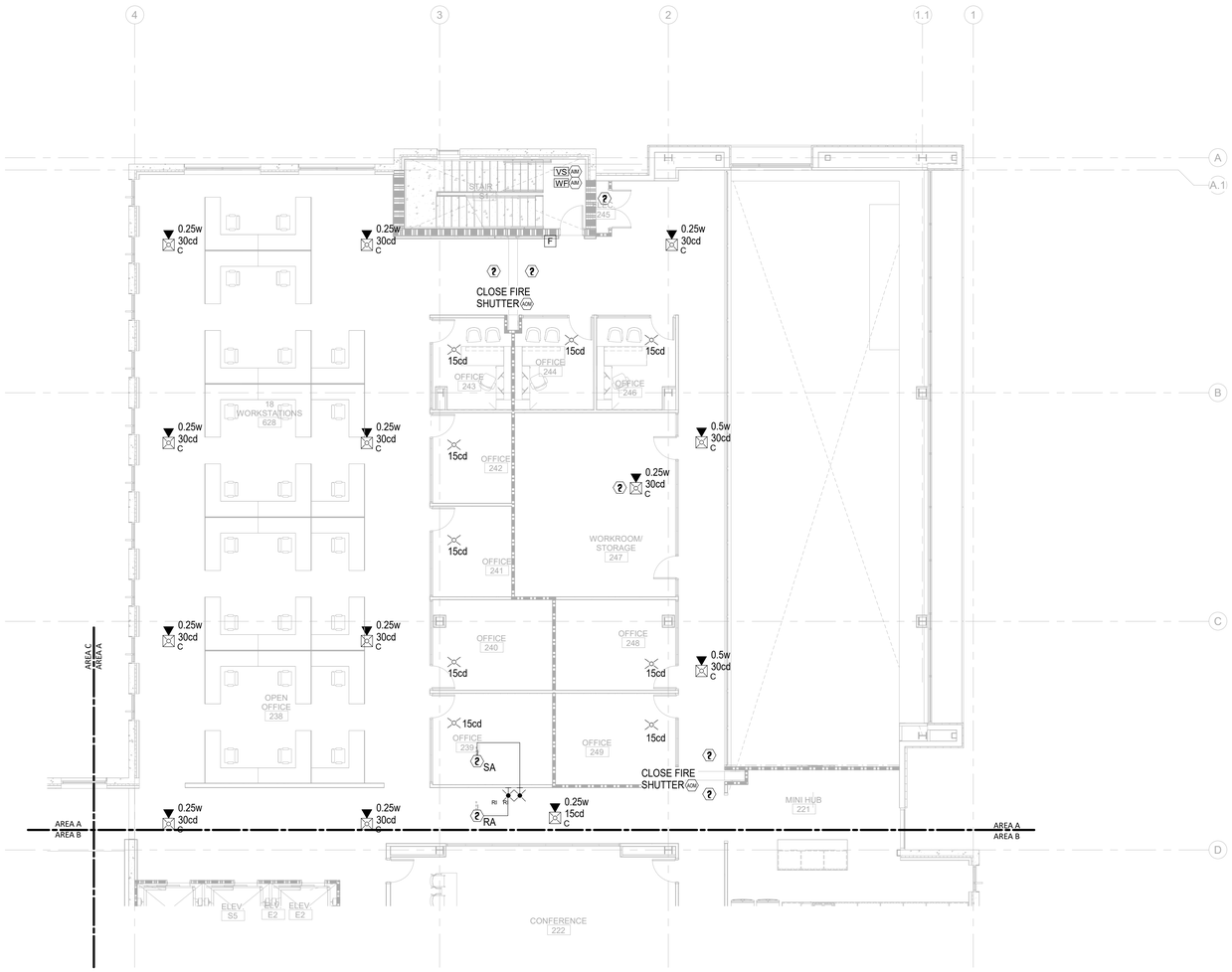
0.5w 15cd C
0.25w 15cd C
15cd
30cd
0.5w 30cd
0.25w 30cd C
0.5w 30cd C
0.5



0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 FA-102A **FIRE ALARM TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A** 1/8" = 1'-0"

11/19/2020 2:38:56 PM

CAPE FEAR FD STONEWATER

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
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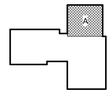
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE ALARM FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FA-102A

TI GMP SET

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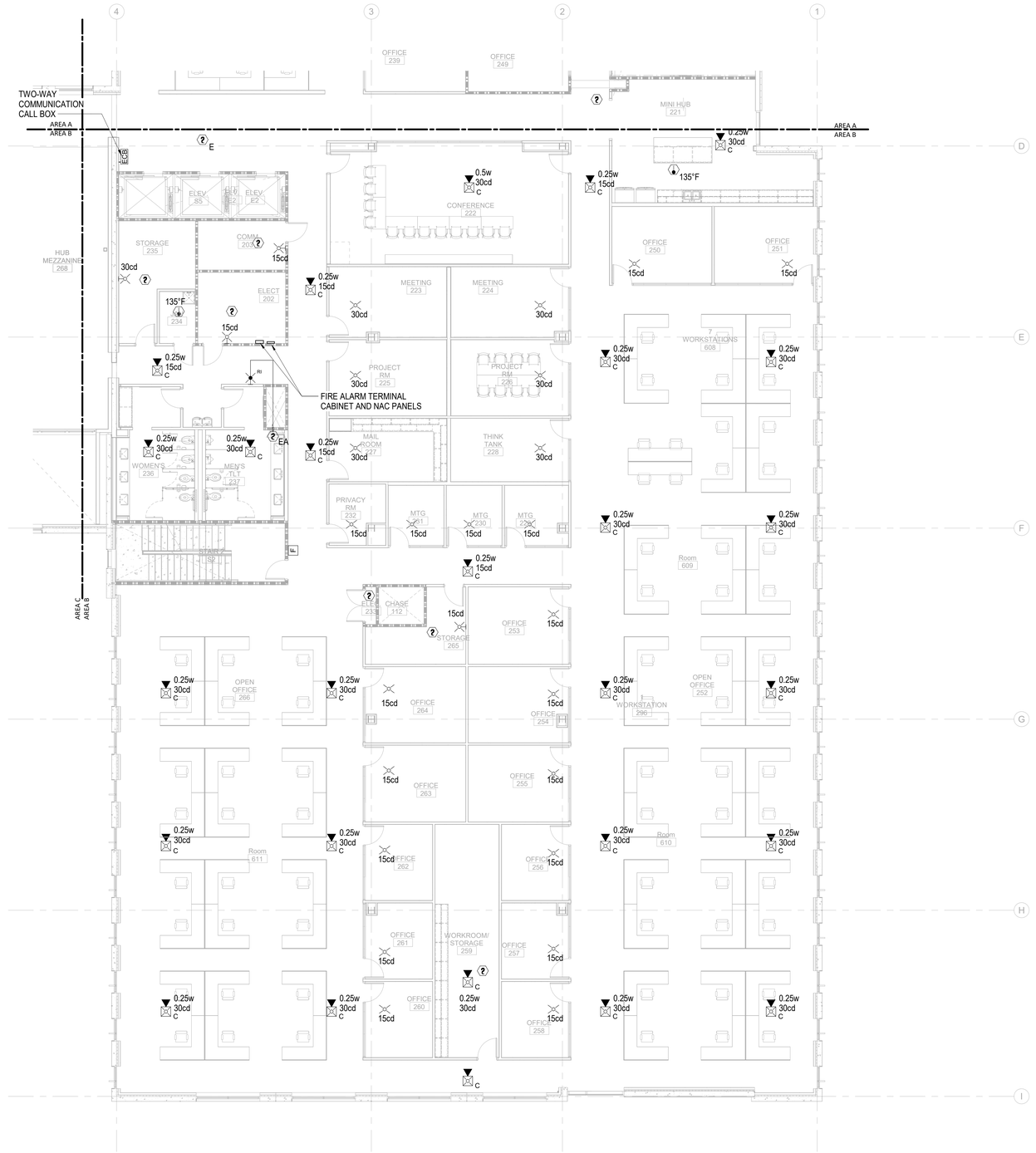

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 FA-102B	FIRE ALARM TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B	1/8" = 1'-0"

11/19/2020 2:39:03 PM

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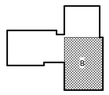
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE ALARM FLOOR PLAN - LEVEL 2 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FA-102B

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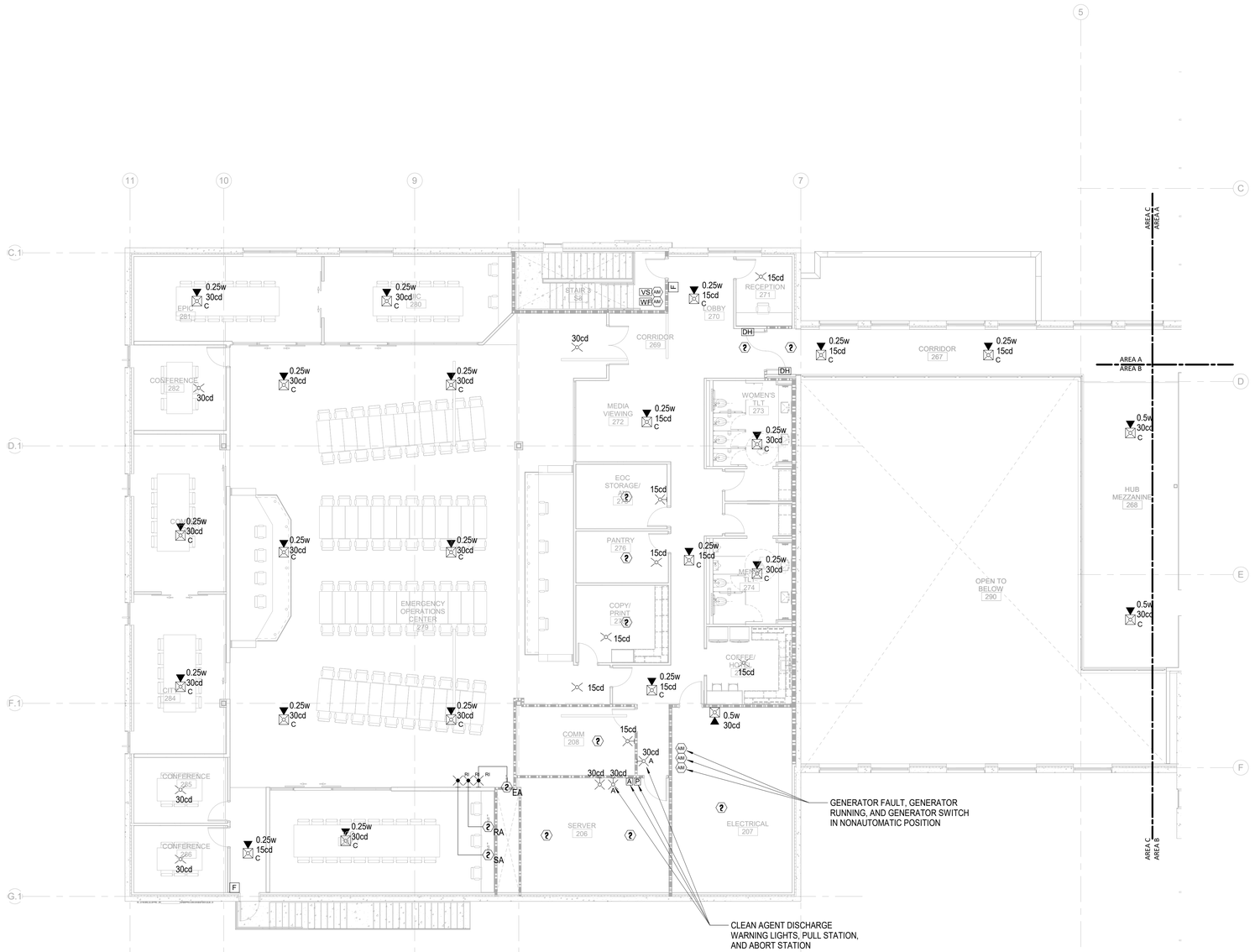

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 FA-102C **FIRE ALARM TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** 1/8" = 1'-0"

11/19/2020 2:39:08 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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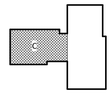
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE ALARM FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
FA-102C

TI GMP SET

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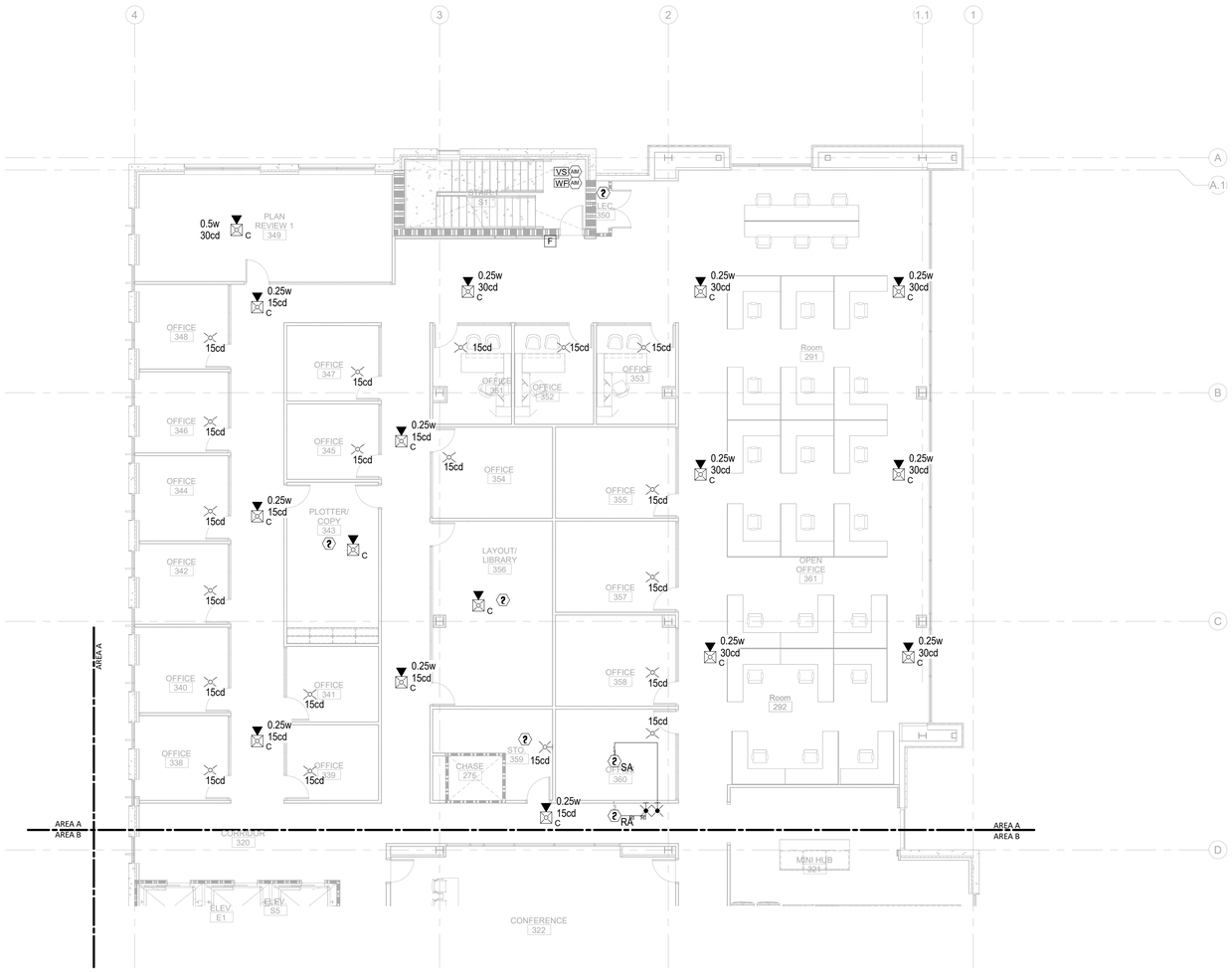
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 FA-103A	FIRE ALARM TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A	1/8" = 1'-0"

11/19/2020 2:39:12 PM

1 2 3 4 5 6

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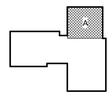
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE ALARM FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FA-103A

TI GMP SET

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0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 FA-103B **FIRE ALARM TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B** 1/8" = 1'-0"

11/19/2020 2:39:17 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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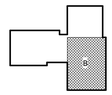
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE ALARM FLOOR PLAN - LEVEL 3 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FA-103B

TI GMP SET

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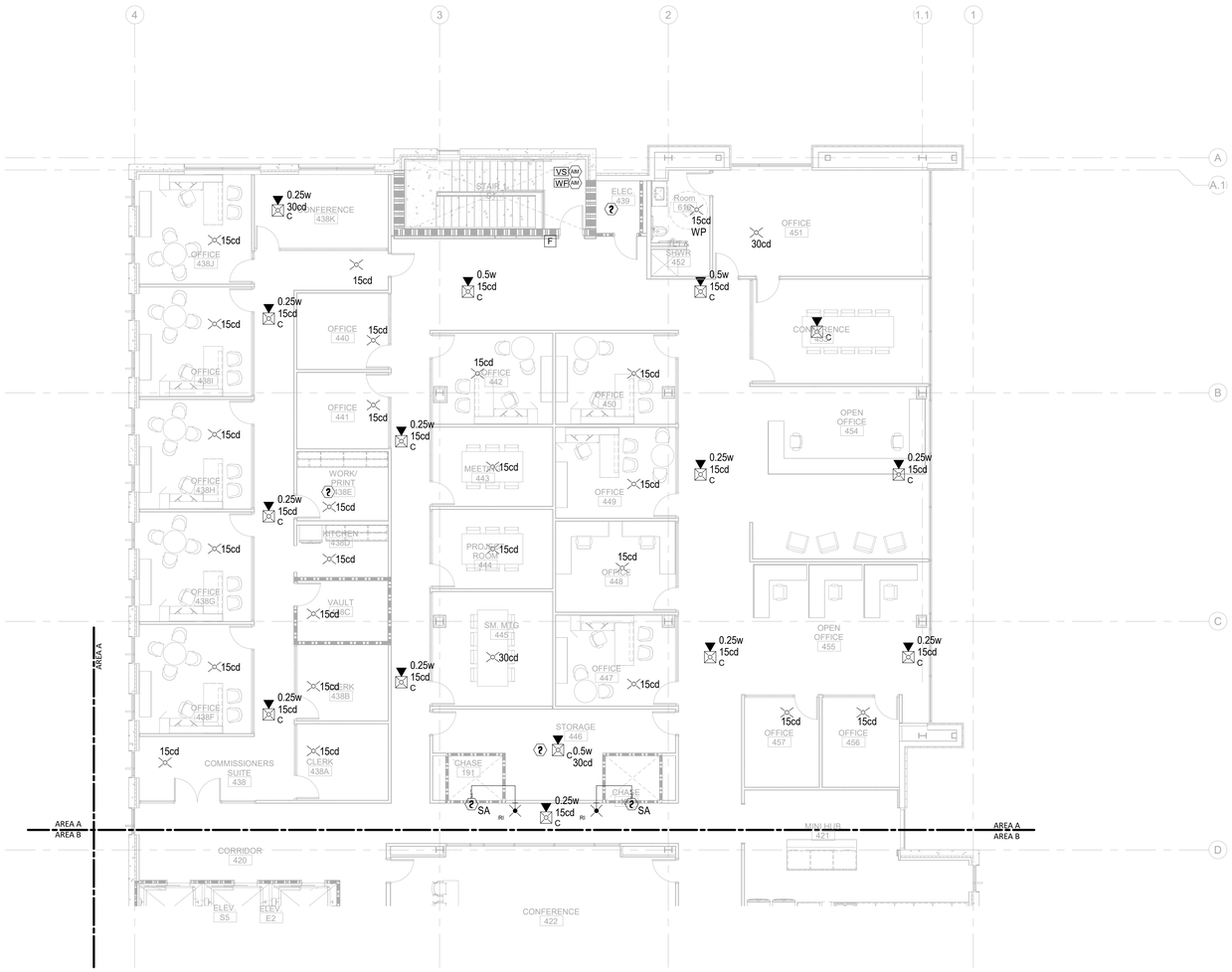
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



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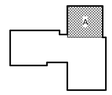
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE ALARM FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FA-104A

TI GMP SET

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5425 Page Rd
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T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1/8" = 1'-0"

1 FA-104A FIRE ALARM TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A

11/19/2020 2:39:21 PM

E D C B A

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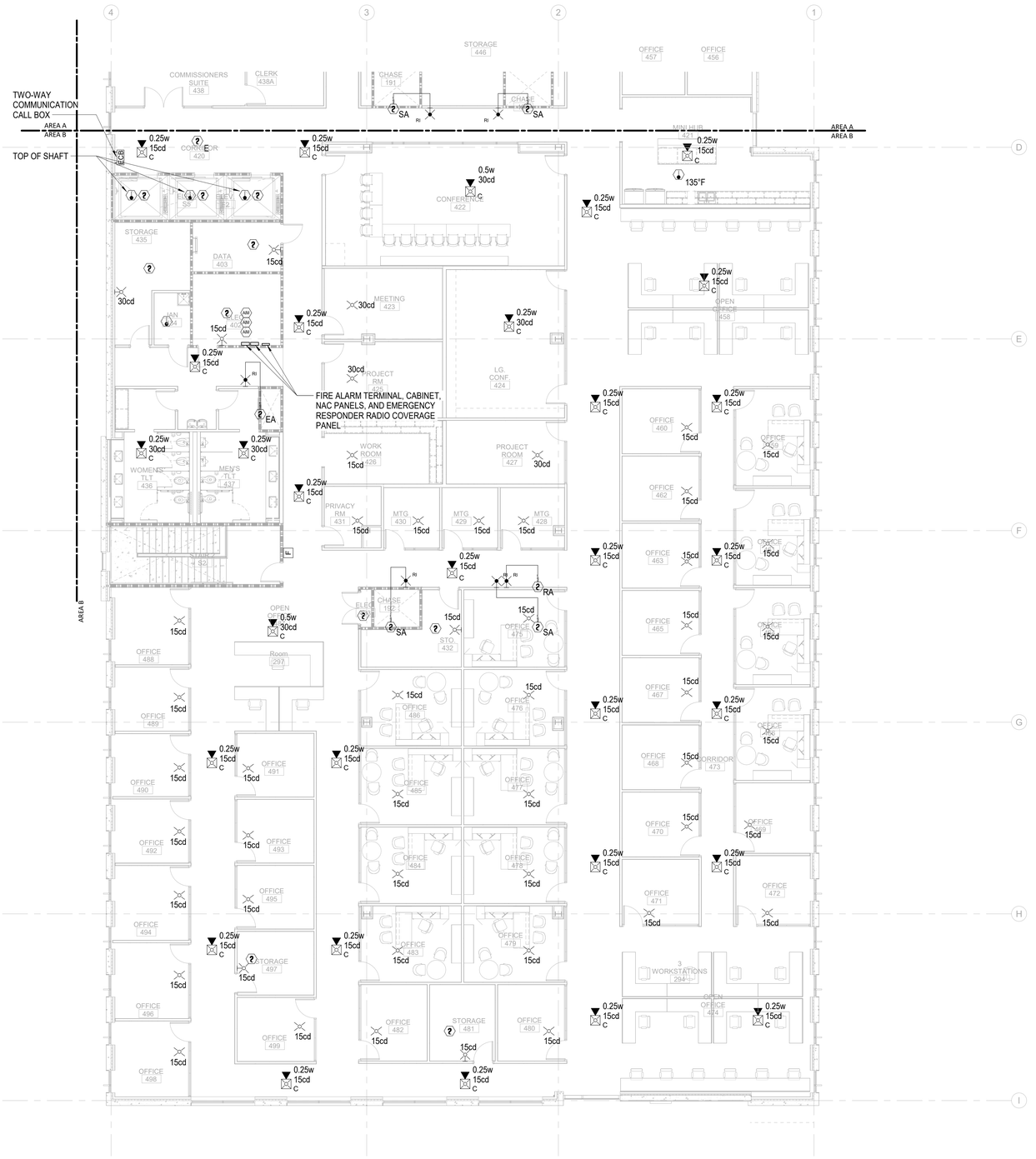

1 FA-104B	FIRE ALARM TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B	1/8" = 1'-0"

11/19/2020 2:39:27 PM

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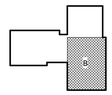
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
FIRE ALARM FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
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SHEET:
FA-104B

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SCALE ON ORIGINAL PLOT



0 8' 16' 24'

TRUE NORTH PROJECT NORTH

1 FA-105 **FIRE ALARM ROOF - C&S** **3/32" = 1'-0"**

11/19/2020 2:39:35 PM

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:

SHEET NAME:
FIRE ALARM ROOF PLAN - OVERALL

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
FA-105

TI GMP SET

SCOPE GUIDANCE AND GENERAL NOTES

1. THE WORK DESCRIBED IN THESE T-SERIES DRAWINGS APPLY TO SPECIFICATION SECTIONS 27 00 10, 27 00 50,27 00 90 , 27 10 00, 27 11 00.
2. ELECTRICAL SCOPE:
   THE INFRASTRUCTURE PORTION OF THESE DOCUMENTS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
   - 2.1 TELECOM SPACES
     - 2.1.1 BACKBOARDS
     - 2.2.2 CONDUIT PULL BOXES
     - 2.2.3 RISER SLEEVES
     - 2.2.4 SLEEVES FROM TELECOM SPACES TO CABLE TRAY
     - 2.2.5 SLEEVES THROUGH WALL PARTITIONS ALONG CABLE TRAY ROUTE INCLUDING AIR ZONE/SPACE PARTITIONS
     - 2.2.6 JUNCTION BOXES
     - 2.2.7 FLOOR BOXES, AS SPECIFIED BY ELECTRICAL OR AUDIOVISUAL
     - 2.2.8 SITE WORK, DUCTBANK AND INNERDUCT FOR CAMPUS DISTRIBUTION
     - 2.2.9 INTERIOR INNERDUCT
     - 2.2.10BONDING AND GROUNDING CONDUIT AND RACEWAY TO GROUND BUS
3. CABLING SCOPE
   THE CABLING PORTION OF THESE DOCUMENTS SHALL BE PROVIDED AND INSTALLED BY THE COMMUNICATIONS CABLING CONTRACTOR AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
   - 3.1 TELECOM SPACES
     - 3.1.1 TELECOM RELAY RACKS AND EQUIPMENT CABINETS
     - 3.1.2 CABLE RUNWAY AND TRAY IN TELECOM ROOMS
     - 3.1.3 PATCH PANELS
     - 3.1.4 TERMINATION BLOCKS
     - 3.1.5 VERTICAL AND HORIZONTAL CABLING MANAGEMENT
     - 3.1.6 BONDING AND GROUNDING OF EQUIPMENT TO GROUND BUS (AS PROVIDED BY ELECTRICAL PORTION)
   - 3.2 CABLING AND CONNECTIVITY
     - 3.2.1 ALL COPPER AND FIBER CABLING PATCH CORDS
     - 3.2.2 ALL COPPER AND FIBER CONNECTORS AND JACKS
     - 3.2.3 ALL COPPER AND FIBER TERMINATIONS
     - 3.2.4 ALL DATA CABLING REQUIRED TO SUPPORT SECURITY AND ACCESS CONTROL INFRASTRUCTURE. (CAMERAS, CARD READERS, MEDIA CONVERTERS, ETC.)
     - 3.2.5 WORKSTATION FACEPLATES
     - 3.2.6 CONSOLIDATION POINTS
     - 3.2.7 EXTERIOR/OUTSIDE PLANT CABLING, INCLUDING TERMINATIONS AND TESTING.
   - 3.3 INTERIOR & EXTERIOR PATHWAYS
     - 3.3.1 SEALING OF TELECOM CONDUITS AND SLEEVES
   - 3.4 WIRELESS ACCESS POINTS
     - 3.4.1 WIRELESS ACCESS POINTS SHALL BE OWNER FURNISED, CONTRACTOR INSTALLED
     - 3.4.2 ASSUME THAT WIRELESS ACCESS POINTS WILL BE PROVIDED WITH STANDARD MOUNTING ACCESSORIES ONLY. ANY SPECIAL MOUNTING EQUIPMENT, FITTINGS OR ACCESSORIES SHALL BE PROVIDED BY THE CONTRACTOR.
     - 3.4.3 CONTRACTOR TO PROVIDE MOCK-UP INSTALLATION PRIOR TO ROUGH-IN OF UNITS TO BE INSTALLED IN EACH CEILING INSTALLATION TYPE.
     - 3.4.4 CONTRACTOR SHALL REVIEW INSTALLATION ON ALL CEILING TYPES WITH OWNER PRIOR TO ROUGH-IN
     - 3.4.5 CONTRACTOR TO PROVIDE ALL PATCH CORDS, LABELING, AND AS-BUIT DOCUMENTATION
     - 3.4.6 CONTRACTOR TO SUBMIT FOR APPROVAL ANY DIVIATIONS FROM THE DETAILS INCLUDED IN THESE DESIGN DOCUMENTS.
4. THE CONTRACTOR RESPONSIBLE FOR THE ELECTRICAL PORTION SHALL PROVIDE AND INSTALL ALL INCIDENTAL EQUIPMENT AND MATERIALS RELATED TO THEIR WORK AND REQURED BY THE COMMUNICATIONS CABLING DOCUMENTS. FOR EXAMPLE, INSULATING BUSHINGS FOR CONDUIT ENDA SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. THE CONTRACTOR RESPONSIBLE FOR THE CABLING PORTION SHALL PROVIDE AND INSTALL ALL INCIDENTAL EQUIPMENT AND MATERAILS RELATED TO THEIR WORK AND REQUIRED BY THE COMMUNICATION CABLING DOCUMENTS. FOR EXAMPLE, CABLE TIES NECESSARY FOR CABLE MANAGMENT SHALL BE PROVIDED BY THE CABLING CONTRACTOR.
6. FOR THE INFRASTRUCRE PORTION, ANY AND ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS REQUIRED BY FIELD CONDITIONS SHALL BE RESOLVED THROUGH THE RFI (REQUEST FOR INFORMATION) PROCESS TO AVOID INADEQUATE OR INCORRECT INFRASTRUCTURE FOR USE BY THE CABLING CONTRACTOR.
7. THE CABLING CONTRACTOR SHALL NOTE THAT SECURITY DRAWINGS REQUIRE CABLING TO BE RUN BY THE STRUCTURED CABLING CONTRACTOR.
8. CONDUITS AND OTHER RACEWAYS USED FOR ANY PURPOSE, INCLUDING WIRING AND CABLING FOR BUILDING WITHIN ARCHITECTURAL SHAFTS AND ENCLOSURES INDICATED ON THE DRAWING OR CONCEALED WITHIN THE CONCRETE STRUCTURE, EXCEPT WHERE ROUTING IS SPECIFICALLY SHOWN OR DETAILED TO BE EXPOSED ON THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE ROUTING OF RACEWAY WITHIN CONCRETE SLABS, BEAMS, AND COLUMNS WITH THE SUBCONTRACTORS. RACEWAY CONCEALED IN STRUCTURE SHALL NOT EXCEED 1" DIAMETER AND ROUTING OF SUCH RACEWAY SHALL BE MODIFIED TO COMPLY WITH THE CONCEALMENT AND SPACING REQUIRMENTS INDICATED ON THE STRUCTURAL DRAWINGS. RACEWAY SHALL NOT BE VISIBLE FROM THE FINISHED SPACE.
9. PROVIDE A PROPERLY SIZED PULLBOX IN CONDUIT PATHWAYS WHERE CONDUIT WOULD EXCEED 100' OF CONTINUOUS PATHWAY OR 180 DEGREES OF BEND BETWEEN PULLBOXES OR THE ENDS OF THE CONDUIT PATHWAY.

INFORMACAST SPEAKER NOTES

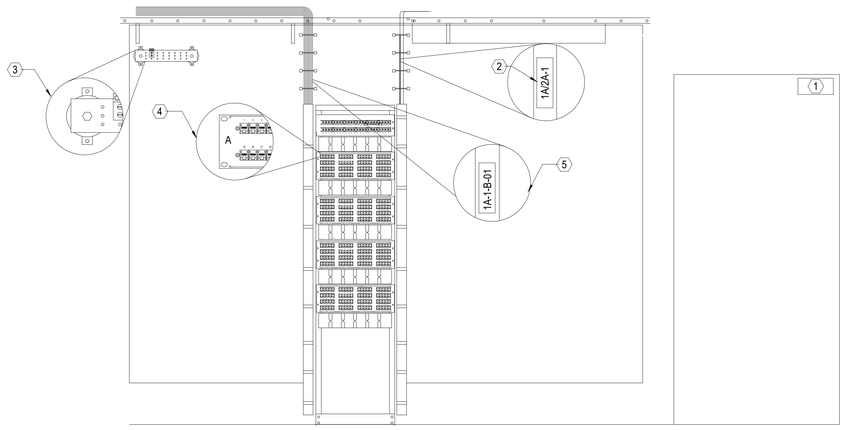
1. THE INFORMACAST FUSION SYSTEM IS CURRENTLY IN USE THROUGHOUT NEW HANOVER COUNTY. ALL SPEAKERS INDICATED ON THESE DRAWINGS ARE ADDITIONAL END DEVICES THAT WILL BE INTEGRATED INTO THE EXISTING INFORMACAST FUSION SYSTEM.
2. AT ALL SPEAKER LOCATIONS AS INDICATED ON THE FLOOR PLANS, CONTRACTOR SHALL FURNISH AND INSTALL AN 8" ROUND INFORMACAST-COMPLIANT CEILING SPEAKER (VALCOM #VIP-120A-IC) WITH TILE BRIDGE (VALCOM #V-9916M).
3. CONTRACTOR SHALL FURNISH AND INSTALL A CATEGORY-6 PATCH CORD, AND CONNECT THE PATCH CORD BETWEEN THE INFORMACAST SPEAKER TO THE BISCUIT JACK IN THE CEILING. PATCHES IN THE TELECOMMUNICATIONS ROOMS TO THE POE-ENABLED NETWORK SWITCH WILL BE PERFORMED BY THE OWNER.
4. ADDITIONAL LICENSES FOR EACH END DEVICE (INFORMACAST SPEAKERS) SHALL BE PROVIDED BY THE CONTRACTOR. CONTACT BRAD JUNGEMANN AT SINGLEWIRE SOFTWARE AT 608-441-1286 OR BRAD.JUNGEMANN@SINGLEWIRE.COM FOR PRICING INFORMATION.

SERVER ROOM EQUIPMENT

SERVER ROOM EQUIPMENT PROVIDED AS PART OF CUSTOMIZED SOLUTION THAT INCLUDES CABINETS, TERMINATION ACCESSORIES, CABLE MANAGEMENT, HOT AISLE CONTAINMENT, UPS AND BATTERY CABINET AS WELL AS OTHER HARDWARE AND ACCESSORIES. APC QUOTE/PART NUMBER ISX0001852536-0005

SOLUTION NUMBER : ISX0001852536-0005
DESIGN NAME : ISXD DESIGN 1
DESIGN NOTES FOR ISXD DESIGN 1

FOR MORE INFORMATION SEE BOM MATERIALS FILE INCLUDED WITH THE TELECOM DRAAWINGS OR/AND CONTACT APC REPRESENTATIVE :
JIMMY JACK - TEL: 803 833 3046
JJACK@CRITICALCOMPONENTS.NET



OUTLET ROUGH-IN AND CABLING REQUIREMENT MATRIX

DRAWING SYMBOL	NAME	BACKBOX SIZE	MOUNTING HEIGHT AFF	CONDUIT SIZE	FACEPLATE TYPE	TERMINATION	PORT TYPE QUANTITIES			CABLING TYPE	CABLING COLOR	JACK COLOR	NOTES
							VOICE	DATA	COAX				
#D	UNIVERSAL DATA OUTLET	2G	18"	1"	SINGLE GANG 2-PORT	RJ-45		#		CAT 6	BLUE	BLUE	# INDICATED ON FLOOR PLANS REPRESENTS QUANTITY OF DATA CABLE DROPS REQUIRED
#D	UNIVERSAL DATA OUTLET - ABOVE COUNTER	2G	SEE NOTE	1"	SINGLE GANG 2-PORT	RJ-45		#		CAT 6	BLUE	BLUE	MOUNT AT 8"-12" ABOVE COUNTER TOP. COORDINATE WITH ELECTRICAL. # INDICATED ON FLOOR PLANS REPRESENTS QUANTITY OF DATA CABLE DROPS REQUIRED.
W	STANDARD WALL PHONE OUTLET	1G	48"	1"	WALL PHONE FACEPLATE	RJ-45		1		CAT 6	BLUE	BLUE	
DP	AV DISPLAY OUTLET	SEE NOTE	PER ARCH. ELEVATIONS	1"	SINGLE GANG 4-PORT	RJ-45/F-TYPE		2	1	CAT 6	BLUE	BLUE	FURNISH AND INSTALL RECESSED BACKBOX PER DETAIL 1 /T-501.
B A	POKE THRU - MODULAR FURNITURE INFEED	NA	FLOOR	1.5"	SEE DETAIL	RJ-45		2 PER SEAT		CAT 6	BLUE	BLUE	SEE DETAIL 2 ON SHEET T-501 FOR MORE INFORMATION.
P B	POKE THRU - SHARED DATA / ELECTRICAL	NA	FLOOR	1.25"	DATA ADAPTER PLATE	RJ-45		2		CAT 6	BLUE	BLUE	TERMINATE DATA CABLLES IN POKE-THRU. COORDINATE WITH ELECTRICAL.
P	FLOOR BOX WITH UNIVERSAL DATA OUTLET	NA	FLOOR	1.25"	4-PORT INSERT	RJ-45		2		CAT 6	BLUE	BLUE	REFER TO ELECTRICAL DETAIL SHEET. ROUTE DATA CABLES TO DESK AS INDICATED.
C FB	POKE THRU - SHARED AV DATA / ELECTRICAL	NA	FLOOR	1.25"	DATA ADAPTER PLATE	RJ-45		2		CAT 6	BLUE	BLUE	TERMINATE DATA CABLLES IN POKE-THRU. COORDINATE WITH ELECTRICAL.
AP	UNIVERSAL DATA OUTLET FOR WIRELESS ACCESS POINT	NA	CEILING	1"	2-PORT BISCUIT BOX	RJ-45		2		CAT 6A	BLUE	BLUE	SEE DETAIL X ON SHEET T-501 FOR MORE INFORMATION. ACCESS POINT TO BE PROVIDED BY OWNER. COORDINATE EXACT LOCATION WITH VENDOR/OWNER PRIOR TO INSTALLATION.
S	UNIVERSAL DATA OUTLET FOR INFORMACAST SPEAKER	NA	CEILING	1"	2-PORT BISCUIT BOX	RJ-45		1		CAT 6	BLUE	BLUE	CONTRACTOR TO FURNISH AND INSTALL ALL INFORMACAST SPEAKERS AND ASSOCIATED HARDWARE. SEE INFORMACAST SPEAKER NOTES.
PRJ	PROJECTOR OUTLET	NA	CEILING	1"	2-PORT BISCUIT BOX	RJ-45		1		CAT 6	BLUE	BLUE	
	MODULAR FURNITURE OUTLET(S)	NA	SEE NOTE	NA	2-PORT INSERT	RJ-45		2		CAT 6	BLUE	BLUE	COORDINATE WITH FURNITURE MANUFACTURER PRIOR TO INSTALLATION. PROVIDE A 1.5" FLEX CONDUIT BETWEEN FURNITURE AND WALL. SEE DETAIL X ON SHEET T-501.
J	WALL FED MODULAR FURNITURE OUTLET(S)	NA	SEE NOTE	1.25"	2-PORT INSERT	RJ-45		1		CAT 6	BLUE	BLUE	COORDINATE WITH FURNITURE MANUFACTURER PRIOR TO INSTALLATION. PROVIDE A 1.25" FLEX CONDUIT BETWEEN FURNITURE AND WALL.
	VIDEO SURVEILLANCE CAMERA (OWNER FURNISHED)	2G	AS NOTED	SEE FLOOR PLANS	1-PORT BISCUIT BOX	RJ-45		1		CAT-6	BLUE	BLUE	CAT-6 FOR INDOOR OR BUILDING ATTACHED CAMERAS. HYBRID CABLING FOR SITE CAMERAS.

GENERAL NOTES

1. ALL INFORMATION IS TYPICAL AS INDICATED IN THIS MATRIX UNLESS OTHERWISE NOTED ELSEWHERE.
2. ALL OUTLETS SHALL BE LOCATED ADJACENT TO POWER RECEPTACLES WHERE APPLICABLE.
3. FINAL HEIGHT AND MOUNTING LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS.
4. ALL OUTLET CONDUITS SHALL BE ROUTED TO THE NEAREST ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UON.
5. PROVIDE BLANK MODULES FOR ALL UNUSED PORTS.
6. REAM AND BUSH ALL CONDUIT ENDS.
7. PROVIDE SINGLE GANG PLASTER RING FOR DOUBLE GANG BOXES WITH SINGLE GANG FACEPLATES.
8. PROVIDE DOUBLE GANG PLASTER RING FOR DOUBLE GANG BOXES WITH DOUBLE GANG FACEPLATES.
9. REFER TO FACEPLATE DETAILS FOR OUTLET PORT CONFIGURATION

STANDARD ABBREVIATIONS

AFC/AFF/AFG/ARF - ABOVE FINISHED CEILING/FLOOR/GRADE/RAISED FLOOR
AP - ACCESS POINT
ARCH - ARCHITECT/ARCHITECTURAL
BCKBD - BACKBOARD
BFC - BELOW FINISHED CEILING
C - CONDUIT
CONN - CONNECTION
CKT - CIRCUIT
CLG - CEILING
EC - ELECTRICAL CONTRACTOR
EMT - ELECTRICAL METALLIC TUBING
EQUIP - EQUIPMENT
EXIST - EXISTING
F - FIBER
FA - FIRE ALARM
FOC - FIBER OPTIC CABLING
G - GROUND
HC - HORIZONTAL CROSS-CONNECT
IDC - INSTALLATION DISPLACEMENT CONNECTOR
IDS - INTRUSION DETECTION SYSTEM
JB - JUNCTION BOX
MM - MULTI-MODE
MTD - MOUNTED
NIC - NOT IN CONTRACT
NTS - NOT TO SCALE
OC - ON CENTER
OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
OSP - OUTSIDE PLANT
PNL - PANEL
PR - PAIR
SPEC - SPECIFICATION
RR - RISER RATED
SM - SINGLE MODE
ST - STRAND
SW - SWITCH
TGB - TELECOM GROUNDING BUS BAR
TMGB - TELECOM MAIN GROUNDING BUS BAR
WP - WEATHERPROOF
UON - UNLESS OTHERWISE NOTED
XFMR - TRANSFORMER

LOW VOLTAGE SYMBOLS LEGEND

- LADDER TYPE TELECOMMUNICATIONS RUNWAY (SIZE AS NOTED ON ENLARGED PLANS)
- BASKET-TYPE CABLE TRAY.
- J-HOOK DIAGRAMMATIC CABLING PATHWAY. J-HOOKS SHALL BE INSTALLED EVERY 5FT MINIMUM.
- 2-POST TELECOMMUNICATIONS RACK WITH REQUIRED CLEARANCES.
- 4-POST TELECOMMUNICATIONS RACK.
- TELECOMMUNICATIONS SERVER RACK.
- DOUBLE SIDED VERTICAL CABLE MANAGER. SIZE INDICATED ON FLOOR PLANS.
- TELECOMMUNICATIONS GROUND BUS BAR.
- FLOOR OUTLET, REFER TO ROUGH IN MATRIX FOR ADDITIONAL INFORMATION.
- WALL OUTLET, REFER TO ROUGH IN MATRIX FOR ADDITIONAL INFORMATION.
- CEILING OUTLET, REFER TO ROUGH IN MATRIX FOR ADDITIONAL INFORMATION.

LABELING REQUIREMENTS - ANSI-TIA 606-C

EQUIPMENT LOCATION AND SIZE ARE OUT OF SCALE FOR CLARITY. PORTIONS OF CABLE MANAGEMENT NOT SHOWN FOR CLARITY.

1. ROOM IDENTIFIER - PROVIDE A PLASTIC ENGRAVED LABEL
   WITH TEXT 2" HIGH, FORMAT SHALL BE "#####".
   WHERE ##### REPRESENTS THE ROOM NUMBER OF THE TELECOMMUNICATIONS SPACE.
   FOR EXAMPLE : A1020 = AMENITIES BUILDING FLOOR TELECOM ROOM
2. BACKBONE CABLE - PROVIDE A MACHINE PRINTED LABEL SECURED WITH SHRINK WRAP
   TO EACH BACKBONE CABLE. FORMAT SHALL BE "####1/####2 - N"
   WHERE ####1 IS THE ORIGINATION TS AND ####2 IS THE TERMINATION TS AND N IS THE CABLE NUMBER.
   FOR EXAMPLE : "A1020/A2020-1" = CABLE 1 ROUTED BETWEEN A1020 ON FIRST FLOOR AND A2020 ON THE SECOND FLOOR.
3. GROUND BUS - PROVIDE A MACHINE PRINTED LABEL PERMANENTLY FIXED TO THE BUS BAR. FORMAT SHALL BE "#####-TGB"
   WHERE FS IS THE TS THAT CONTAINS THE TGB.
   FOR EXAMPLE : "A1020-TGB" = TELECOM SPACE A1020 TELECOM GROUNDING BUS BAR.
4. PATCH PANELS - PROVIDE MACHINE PRINTED LABELS PERMANENTLY
   FIXED TO THE PATCH PANEL. FORMAT SHALL BE "AN"
   WHERE A IS THE PATCH PANEL ALPHA NUMERIC ID AND
   N IS THE PATCH PANEL'S PORT NUMBER.
   FOR EXAMPLE "A07" = PATCH PANEL A PORT POSITION 07.
5. HORIZONTAL CABLE - PROVIDE MACHINE PRINTED LABEL SECURED WITH
   SHRINK WRAP TO EACH END OF EVERY HORIZONTAL CABLE.
   WHERE THE CABLE IS HOMERUN, FORMAT SHALL "#####-N-A-N".
   WHERE ##### IS THE TS IDENTIFIER AND N-A-N IS THE TERMINATION LOCATION.
   FOR EXAMPLE "A1020-1-B-01" = A1020, RACK 1, PATCH PANEL B, PORT 01.
   WHERE THE CABLE IS RUN TO A CONSOLIDATION POINT, FORMAT SHALL "FS-N-N".
   WHERE FS IS THE TS IDENTIFIER AND N-N IS THE TERMINATION LOCATION.
   FOR EXAMPLE "A1020-1-01" = A1020, CONSOLIDATION POINT 1, PORT 01.

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Δ	DATE	DESCRIPTION

SHEET NAME:
TELECOM LEGEND AND NOTES

DATE:
CURRENT: 2020.11.20
TI GMP SET

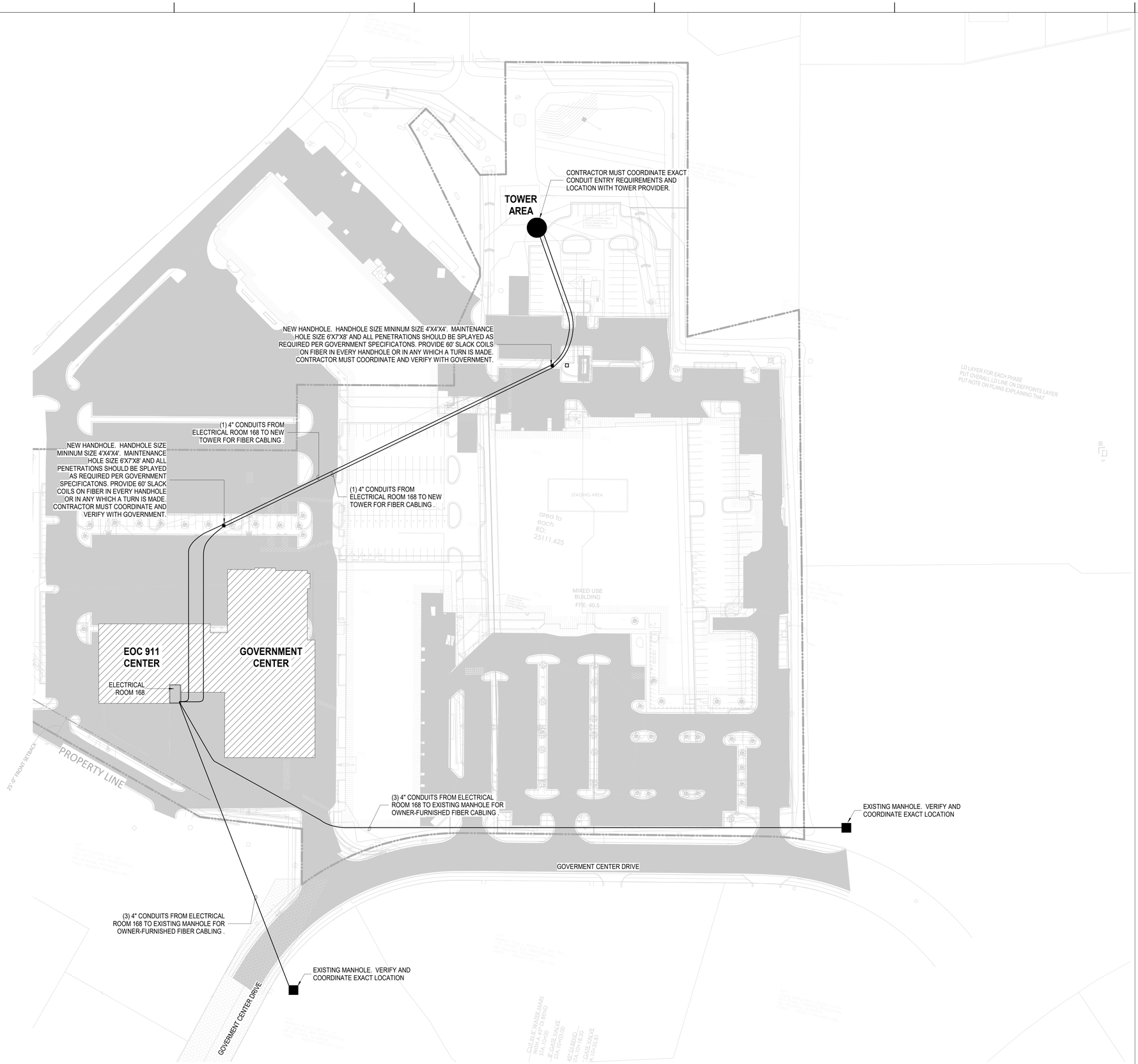
SHEET:
T-001

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED DRAWING PLOTS

11/19/2020 2:45:50 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLOTTED



GENERAL NOTES:

1. REFER TO CIVIL PLANS FOR LOCATIONS OF OTHER UTILITIES. FIELD VERIFY AND COORDINATE LOCATIONS OF EXISTING UTILITIES PRIOR TO INSTALLATION.
2. UNDERGROUND CONDUIT ROUTES SHOWN ARE DIAGRAMMATIC AND FINAL ROUTES SHOULD BE COORDINATED WITH IN-FIELD CONDITIONS AND SURROUNDING UTILITIES IDENTIFIED ON THE CIVIL PLANS.
3. CONDUITS ENTERING INTO THE EXISTING MANHOLE SHALL TERMINATE IN THE LOWEST AVAILABLE WINDOW AND ALWAYS SLOPE TOWARDS INTO THE MANHOLE STRUCTURE TO PREVENT WATER BACK-FLOW INTO THE BUILDING.
4. CONDUITS ENTERING INTO THE BUILDING SHALL SLOPE AWAY FROM THE BUILDING ENTRANCE ROOM AND TOWARD THE UNDERGROUND MANHOLE / HAND HOLE STRUCTURES.

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LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

SHEET NAME:
TELECOM - SITE PLAN

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-100

TI GMP SET

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1 T-100 **TELECOM SITE PLAN** — 1" = 50'-0"

11/19/2020 2:45:55 PM

E D C B A

1 2 3 4 5 6



GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN COMM ROOM 103.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / T-101A	TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"

11/19/2020 2:46:00 PM

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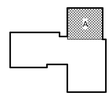
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



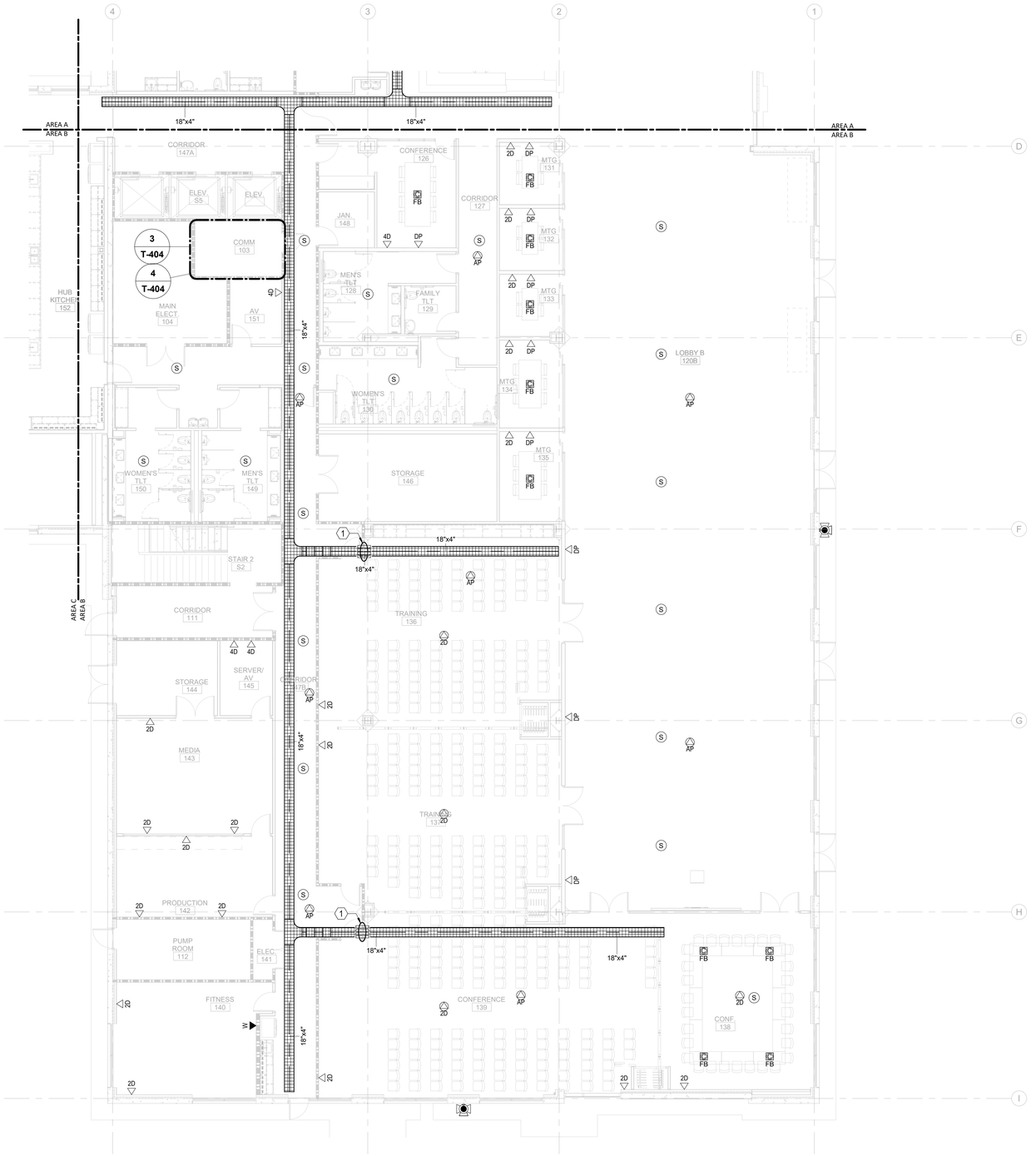
SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 1 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-101A

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN COMM ROOM 103.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

TELCOM KEY NOTES:

(1) (4) 4" FIRESTOPPED SLEEVES

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / T-101B	TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B	1/8" = 1'-0"

11/19/2020 2:46:06 PM

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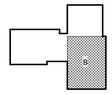
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-101B

TI GMP SET

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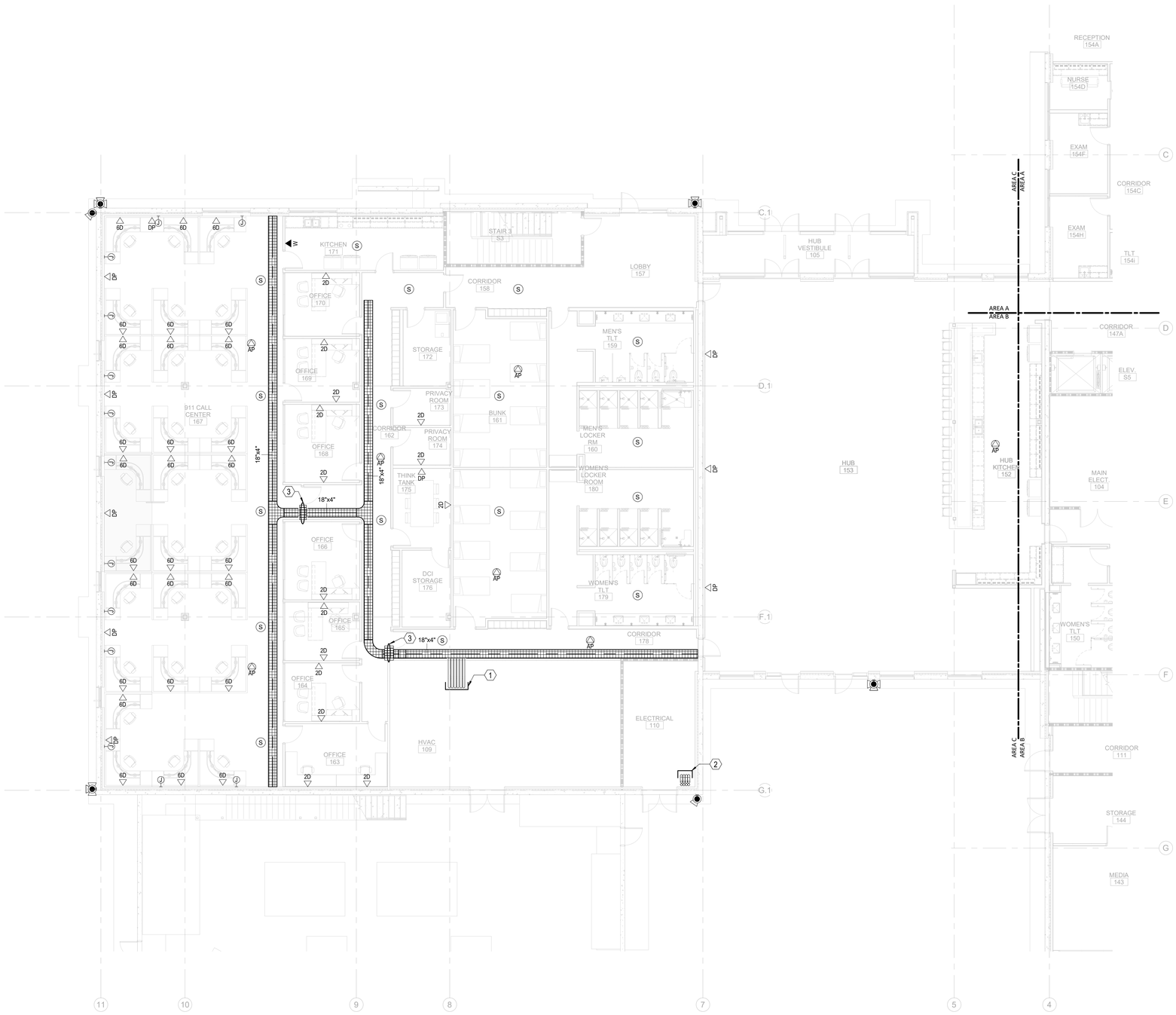
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING CABINETS IN SERVER ROOM 206.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

TELCOM KEY NOTES:

1. (6) 4" CONDUITS FROM SERVER ROOM ABOVE FOR LEVEL 1 HORIZONTAL DISTRIBUTION
2. UNDERGROUND CONDUITS PATHWAY TO FLOOR ABOVE.
   -(6) 4" CONDUITS FOR SERVICE PROVIDER FIBER.
   -(2) 4" CONDUITS FOR FIBER REDUNDANCY TO TOWER AREA.
   SEE TELECOM SITE PLAN FOR DETAILS.
3. (6) 4" FIRESTOPPED SLEEVES

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / T-101C **TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** — **1/8" = 1'-0"**

11/19/2020 2:46:14 PM

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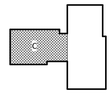
Δ	DATE	DESCRIPTION

KEY PLAN:



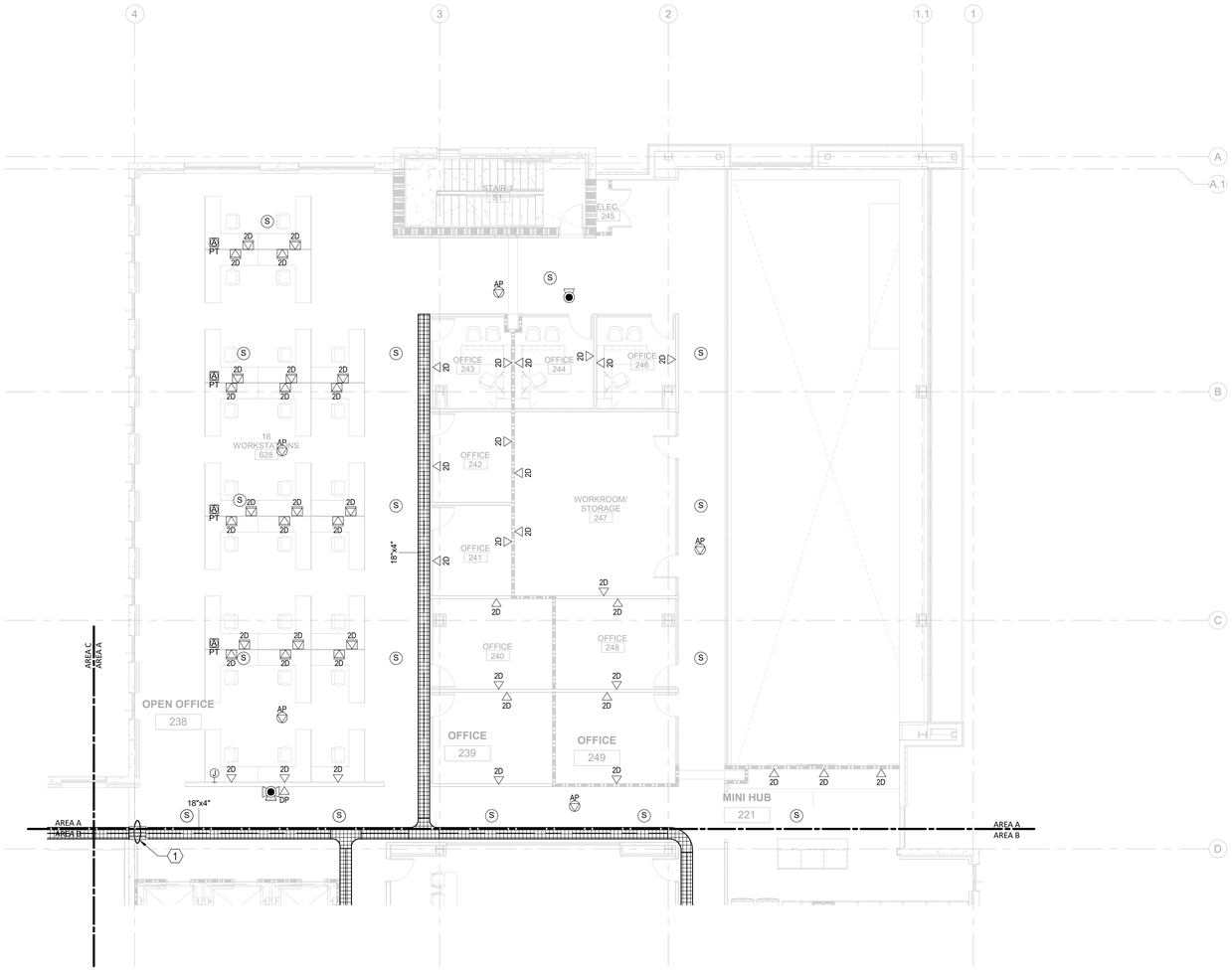
SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 1 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-101C

TI GMP SET

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN COMM ROOM 203.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

TELCOM KEY NOTES:

(1) (6) 4" FIRESTOPPED SLEEVES

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / T-102A TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A — **1/8" = 1'-0"**

11/19/2020 2:46:19 PM

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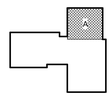
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-102A

TI GMP SET

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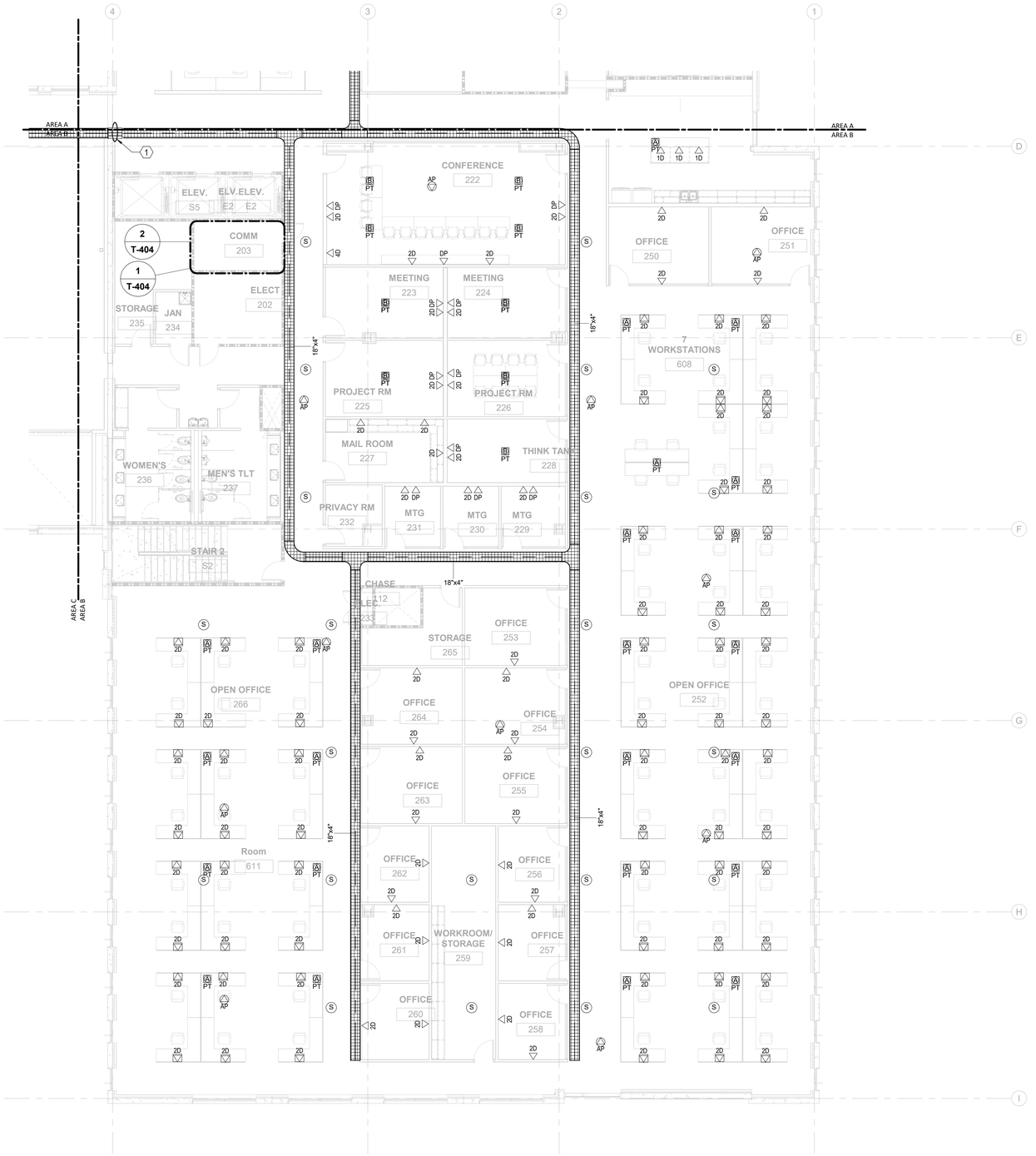

GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN COMM ROOM 203.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

TELCOM KEY NOTES:

(1) (6) 4" FIRESTOPPED SLEEVES

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / T-102B	TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B	1/8" = 1'-0"

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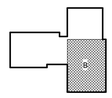
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 2 - AREA B

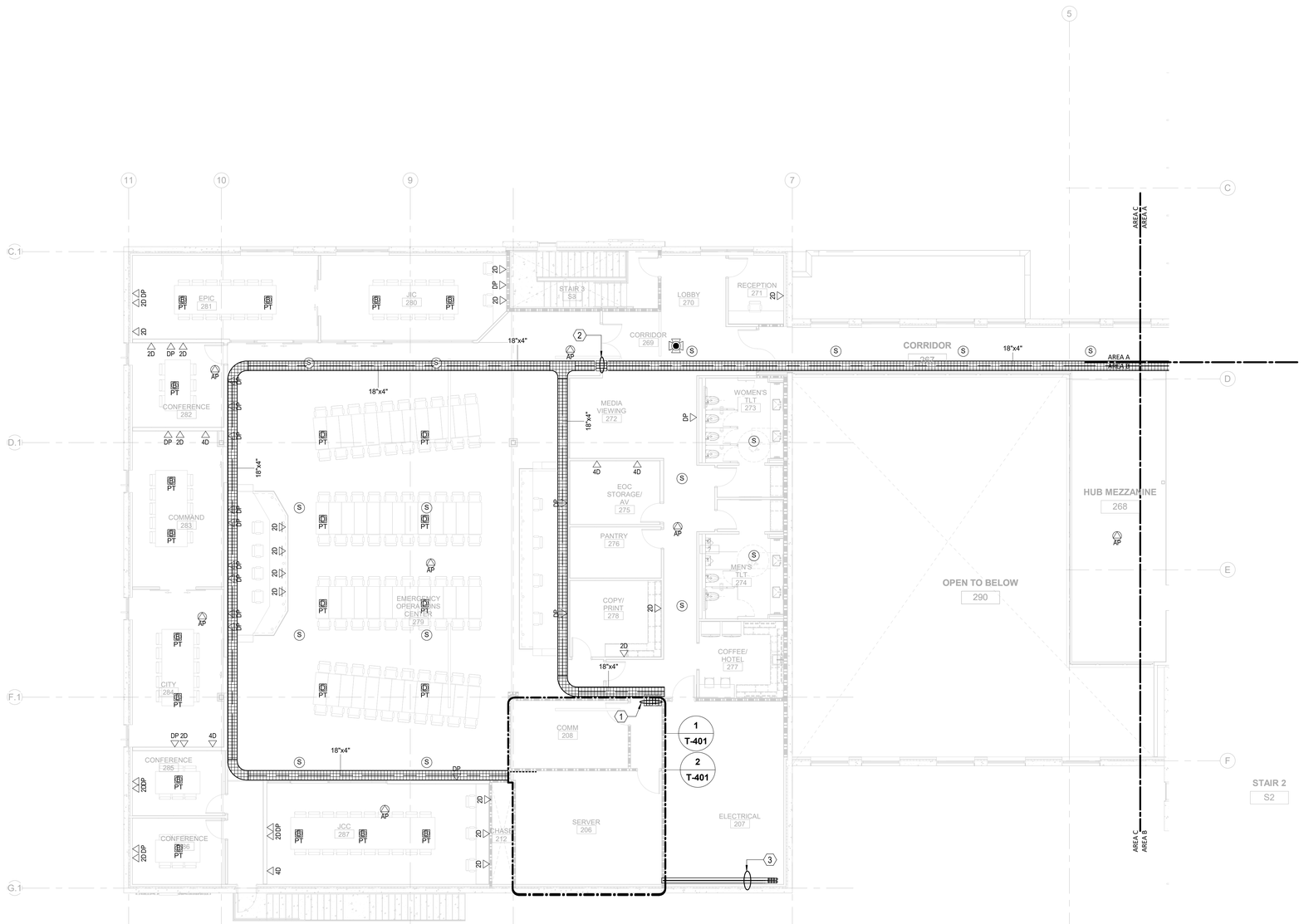
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-102B

TI GMP SET

11/19/2020 2:46:25 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING CABINETS IN SERVER ROOM 206.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

KEYNOTES (THIS SHEET ONLY)

1. (6) 4" FIRESTOPPED SLEEVES FOR HORIZONTAL DISTRIBUTION
2. (4) 4" FIRESTOPPED SLEEVES
3. UNDERGROUND CONDUITS PATHWAY FROM FIRST FLOOR.
   -(6) 4" CONDUITS FOR SERVICE PROVIDER FIBER.
   -(2) 4" CONDUITS FOR FIBER REDUNDANCY TO TOWER AREA.
   SEE TELECOM SITE PLAN FOR DETAILS.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 T-102C **TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** — 1/8" = 1'-0"

11/19/2020 2:46:30 PM

Newcomb & Boyd
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N&B PROJECT: 19N342
Firm License No. F-0312

CAPE FEAR FD STONEWATER

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101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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NHC Goverment Center 7702-190810

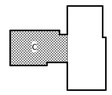
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



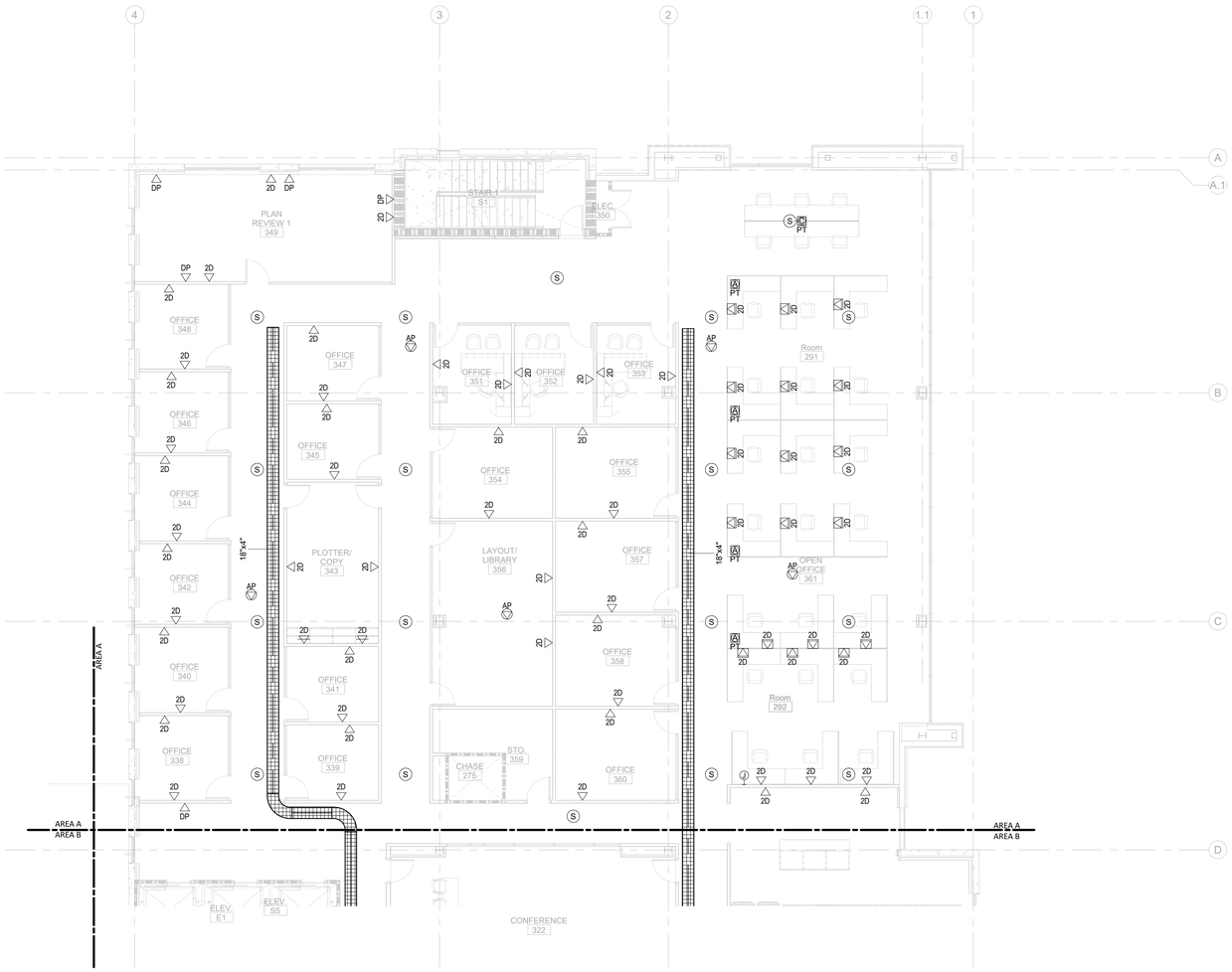
SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-102C

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN SERVER ROOM 303.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / T-103A TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A — 1/8" = 1'-0"

11/19/2020 2:46:34 PM

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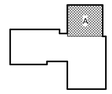
LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-103A

TI GMP SET

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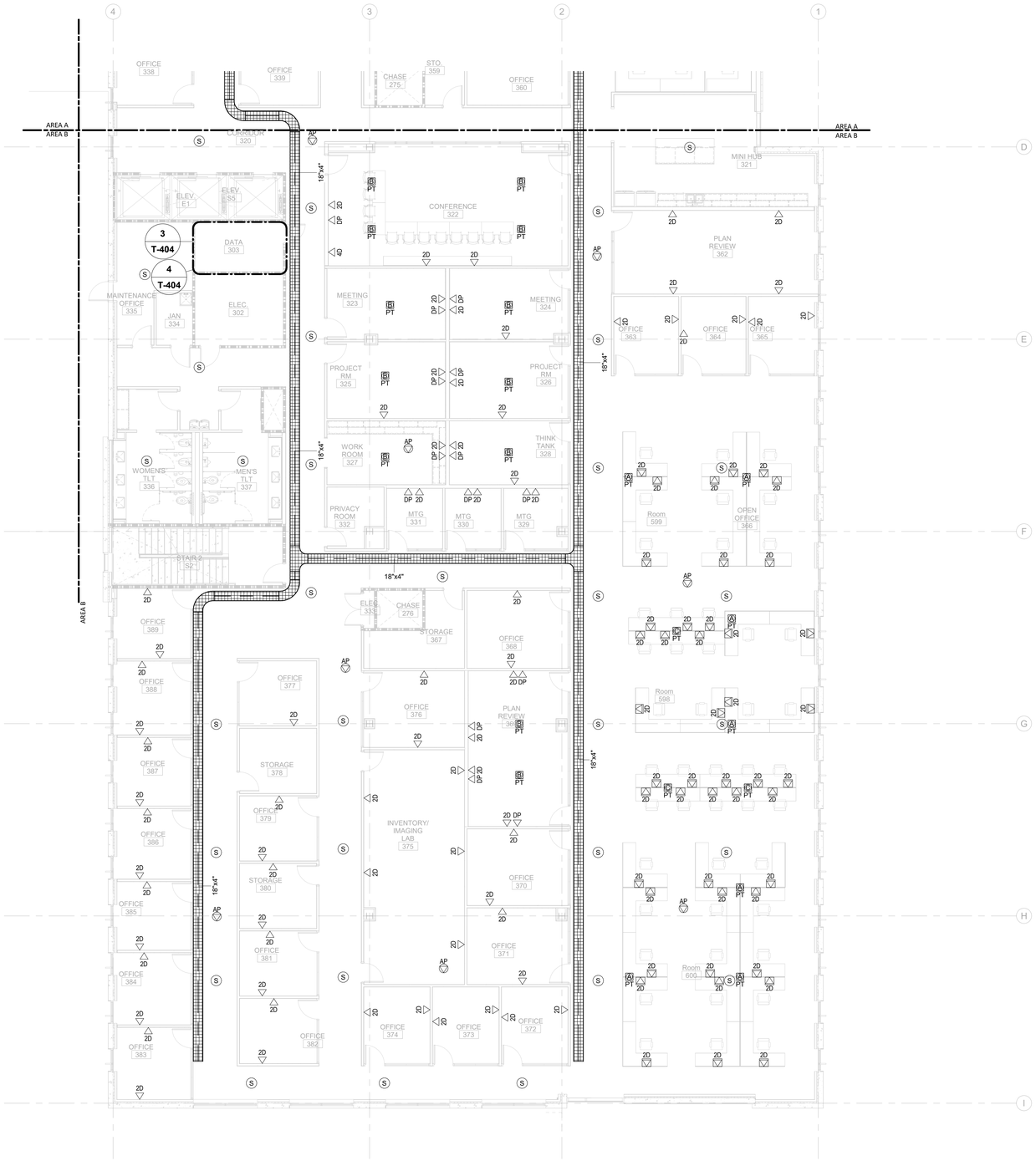

GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN SERVER ROOM 303.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 T-103B	TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B	1/8" = 1'-0"

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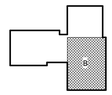
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 3 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-103B

TI GMP SET

11/19/2020 2:46:41 PM

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GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN SERVER ROOM 403.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / T-104A	TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A	1/8" = 1'-0"

11/19/2020 2:46:46 PM

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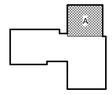
Δ	DATE	DESCRIPTION

KEY PLAN:



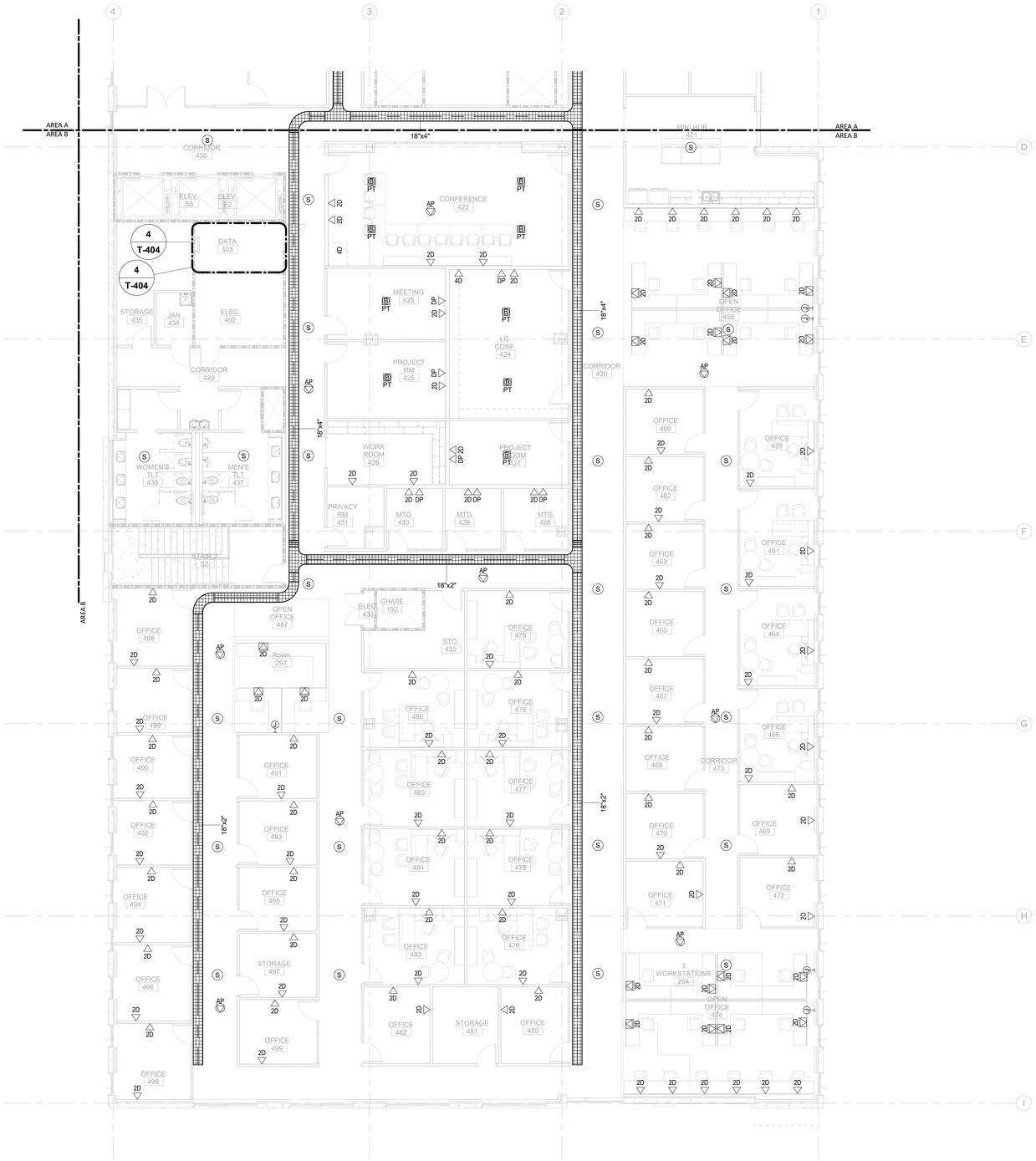
SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-104A

TI GMP SET

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATED IN HORIZONTAL CABLING RACK IN SERVER ROOM 403.
2. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / T-104B	TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B	1/8" = 1'-0"

11/19/2020 2:46:53 PM

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Firm License No. F-0312

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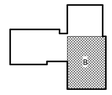
Δ	DATE	DESCRIPTION

KEY PLAN:

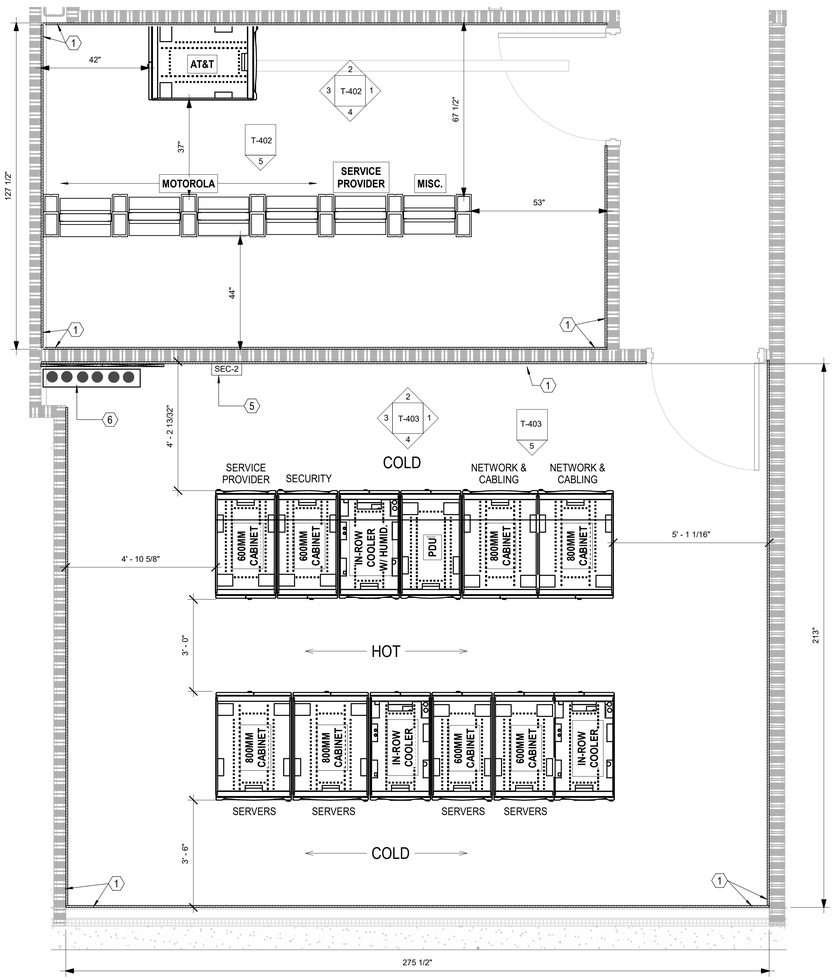


SHEET NAME:
TELECOM FLOOR PLAN - LEVEL 4 - AREA B

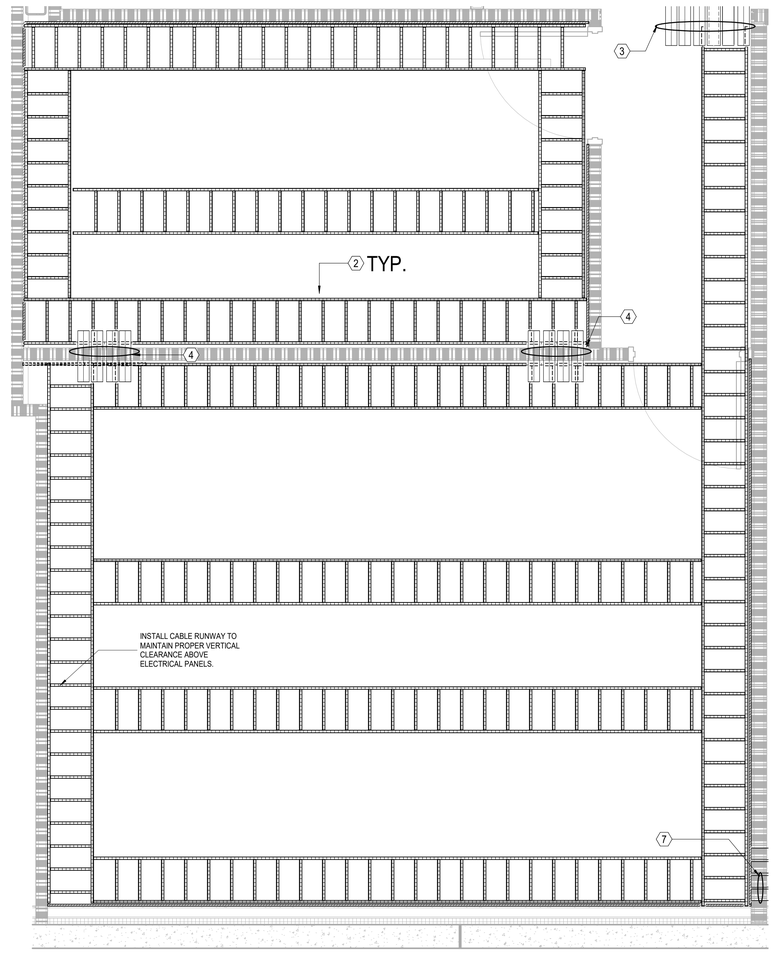
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-104B

TI GMP SET



1 / T-401	TELECOM - 911 EQUIP. & SERVER ROOM PART PLANS - BELOW 7' 6"	1/2" = 1'-0"



2 / T-401	TELECOM - 911 EQUIP. & SERVER ROOM PART PLANS - ABOVE 7' 6"	1/2" = 1'-0"

GENERAL NOTES (THIS SHEET ONLY)

1. AT ALL VERTICAL SLEEVE LOCATIONS, FURNISH AND INSTALL 24"W CABLE RUNWAY MOUNTED VERTICALLY TO ALLOW FOR PROPER SUPPORT OF CABLES TO FLOOR BELOW.

KEYNOTES (THIS SHEET ONLY)

1. 0.75" PLYWOOD BACKBOARD
2. 18"W CABLE RUNWAY
3. (6) 4" FIRESTOPPED SLEEVES FOR HORIZONTAL DISTRIBUTION
4. (4) 4" FIRESTOPPED SLEEVES FOR HORIZONTAL DISTRIBUTION
5. SECURITY PANEL BY OWNER'S SECURITY INTEGRATOR
6. (6) 4" CONDUITS FROM SERVER ROOM TO FLOOR BELOW FOR LEVEL 1 HORIZONTAL DISTRIBUTION
7. UNDERGROUND CONDUITS PATHWAY FROM FIRST FLOOR.
   -(6) 4" CONDUITS FOR SERVICE PROVIDER FIBER.
   -(2) 4" CONDUITS FOR FIBER REDUNDANCY TO TOWER AREA.
   SEE TELECOM SITE PLAN FOR DETAILS.

SERVER ROOM EQUIPMENT

SERVER ROOM EQUIPMENT PROVIDED AS PART OF CUSTOMIZED SOLUTION THAT INCLUDES CABINETS, TERMINATION ACCESSORIES, CABLE MANAGEMENT, HOT AISLE CONTAINMENT, UPS AND BATTERY CABINET AS WELL AS OTHER HARDWARE AND ACCESSORIES. APC QUOTE/PART NUMBER ISX0001852536-0005

SOLUTION NUMBER : ISX0001852536-0005
DESIGN NAME : ISXD DESIGN 1
DESIGN NOTES FOR ISXD DESIGN 1

FOR MORE INFORMATION SEE BOM MATERIALS FILE INCLUDED WITH THE TELECOM DRAAWINGS OR/AND CONTACT APC REPRESENTATIVE :
JIMMY JACK - TEL: 803 833 3046
JJACK@CRITICALCOMPONENTS.NET

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Firm License No. F-0312

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Δ	DATE	DESCRIPTION

SHEET NAME:
TELECOM - 911 EQUIP. & SERVER ROOM PART PLANS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-401

TI GMP SET

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TWENTY SCALE WHEN PLOTTED

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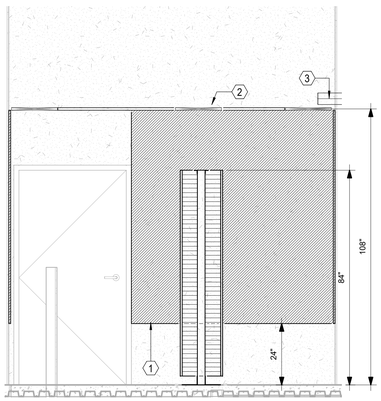
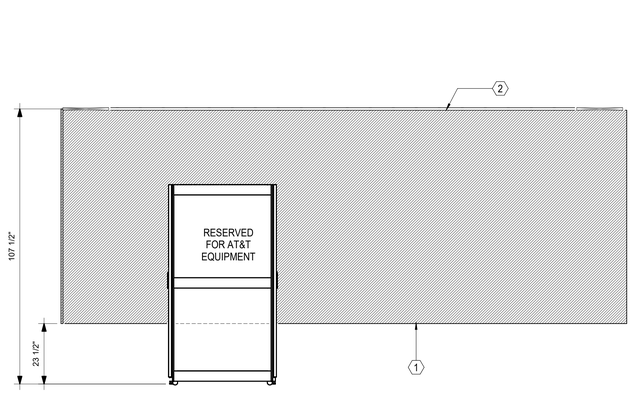
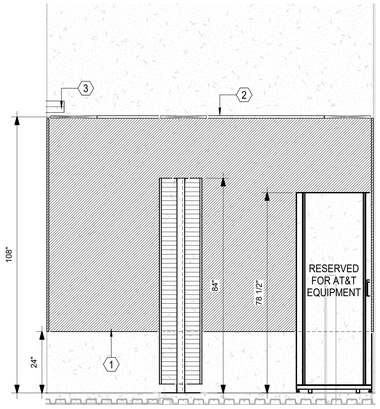


1 / T-402	911 EQUIPMENT ROOM - EAST ELEVATION	1/2" = 1'-0"



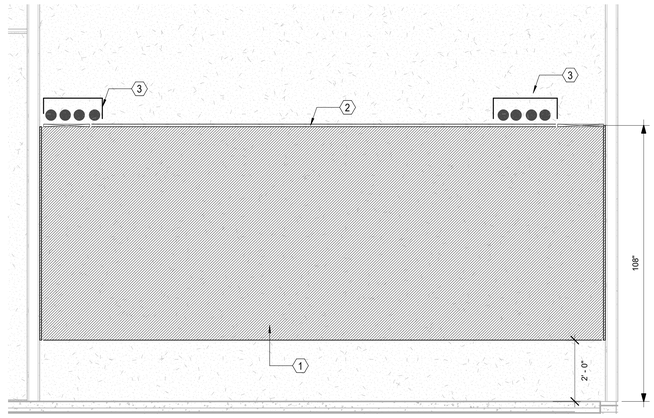
2 / T-402	911 EQUIPMENT ROOM - NORTH ELEVATION	1/2" = 1'-0"



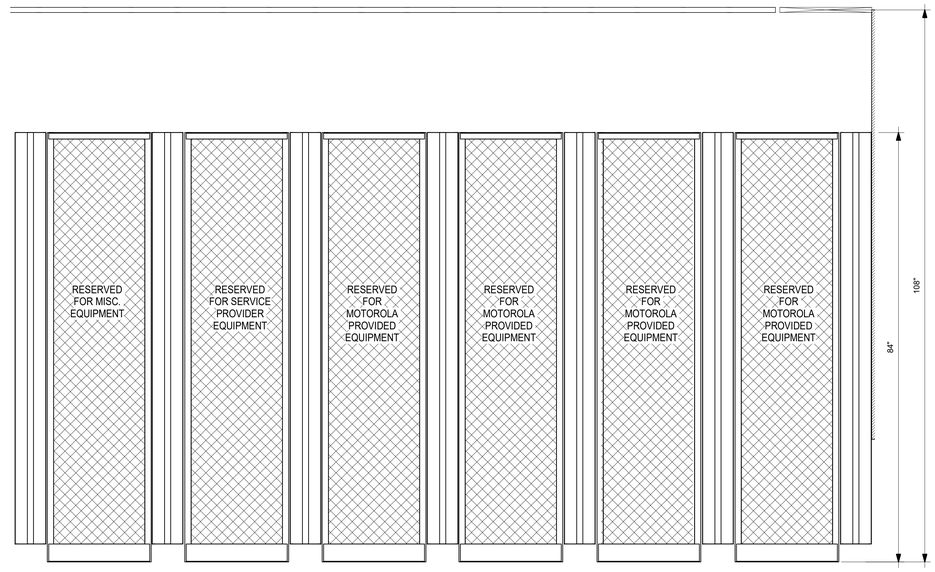
3 / T-402	911 EQUIPMENT ROOM - WEST ELEVATION	1/2" = 1'-0"

KEYNOTES (THIS SHEET ONLY)

1. 0.75" PLYWOOD BACKBOARD
2. 18"W CABLE RUNWAY
3. (4) 4" FIRESTOPPED SLEEVES FOR HORIZONTAL DISTRIBUTION



4 / T-402	911 EQUIPMENT ROOM - SOUTH ELEVATION	1/2" = 1'-0"



5 / T-402	911 EQUIPMENT ROOM - RACK ELEVATION	1" = 1'-0"

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WILMINGTON, NC 28403
LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

SHEET NAME:
TELECOM - 911 EQUIPMENT ROOM ELEVATIONS

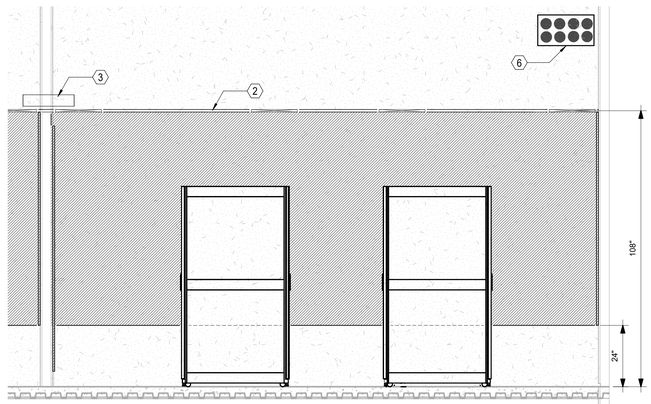
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-402

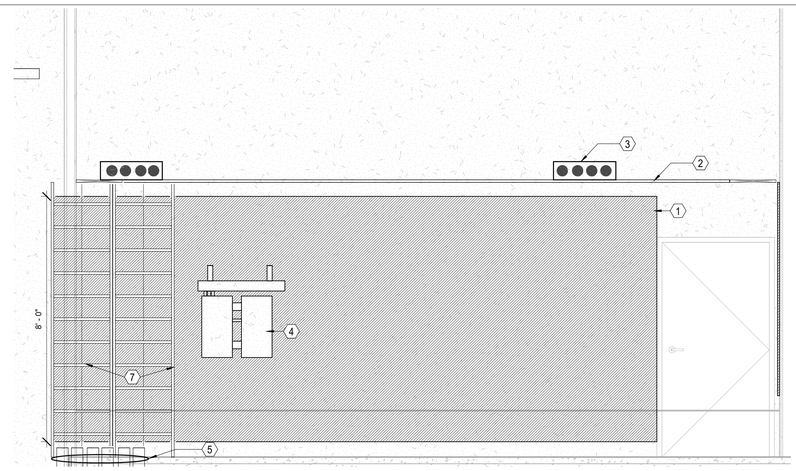
TI GMP SET

11/19/2020 2:47:02 PM

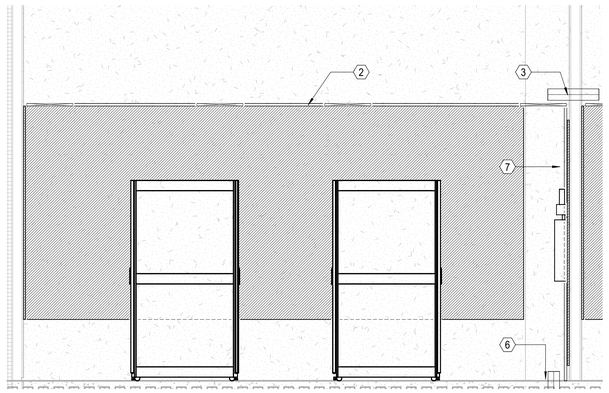
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



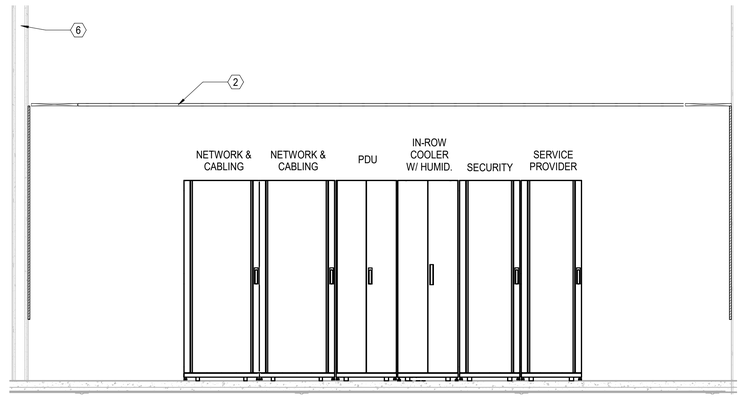
1 T-403	SERVER ROOM - EAST ELEVATION	1/2" = 1'-0"



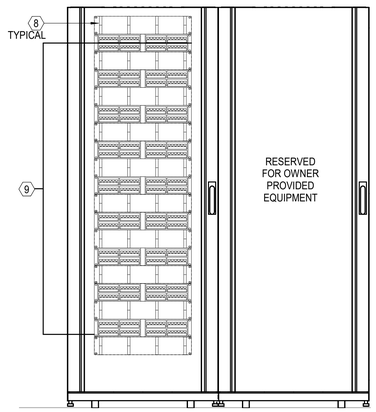
2 T-403	SERVER ROOM - NORTH ELEVATION	1/2" = 1'-0"



3 T-403	SERVER ROOM - WEST ELEVATION	1/2" = 1'-0"



4 T-403	SERVER ROOM - SOUTH ELEVATION	1/2" = 1'-0"



5 T-403	NETWORK CABINET - RACK ELEVATION	1" = 1'-0"

GENERAL NOTES (THIS SHEET ONLY)

1. AT ALL VERTICAL SLEEVE LOCATIONS, FURNISH AND INSTALL 24" W CABLE RUNWAY MOUNTED VERTICALLY TO ALLOW FOR PROPER SUPPORT OF CABLES.

KEYNOTES (THIS SHEET ONLY)

1. 0.75" PLYWOOD BACKBOARD
2. 18"W CABLE RUNWAY
3. (4) 4" FIRESTOPPED SLEEVES
4. SECURITY PANEL BY OWNER'S SECURITY INTEGRATOR
5. (6) 4" CONDUITS FROM SERVER ROOM TO FLOOR BELOW FOR LEVEL 1 HORIZONTAL DISTRIBUTION
6. UNDERGROUND CONDUITS PATHWAY FROM FIRST FLOOR.
   -(6) 4" CONDUITS FOR SERVICE PROVIDER FIBER.
   -(2) 4" CONDUITS FOR FIBER REDUNDANCY TO TOWER AREA.
   SEE TELECOM SITE PLAN FOR DETAILS.
7. 24" W VERTICAL CABLE RUNWAY
8. 2RU WIRE MANAGER
9. 48 PORT PATCH PANEL FOR HORIZONTAL DISTRIBUTION

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N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
TELECOM - SERVER ROOM ELEVATIONS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
T-403

TI GMP SET

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1 2 3 4 5 6

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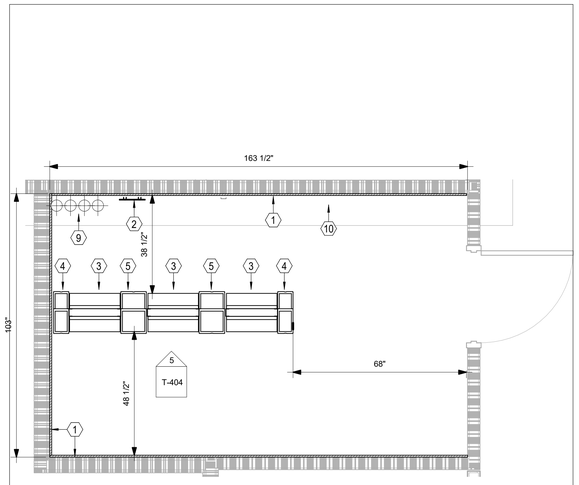
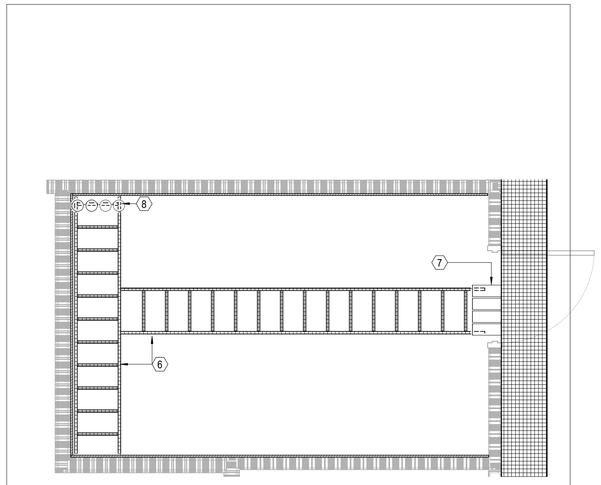
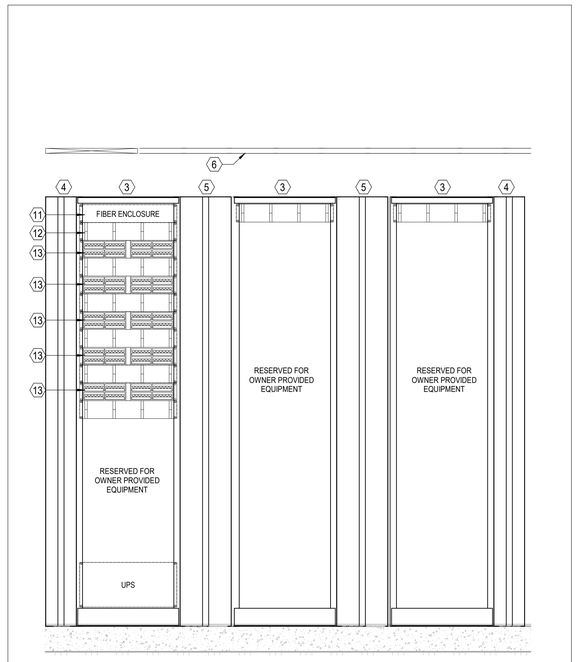


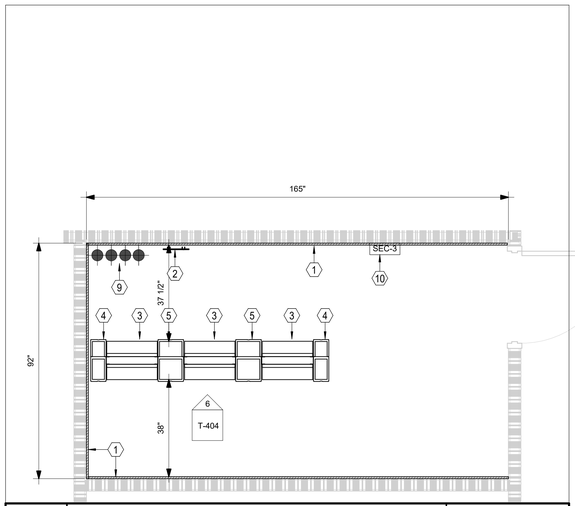
1 T-404 **LEVEL 2 COMM ROOM 203 PART PLAN - BELOW 7' 6 1/2" = 1'-0"**



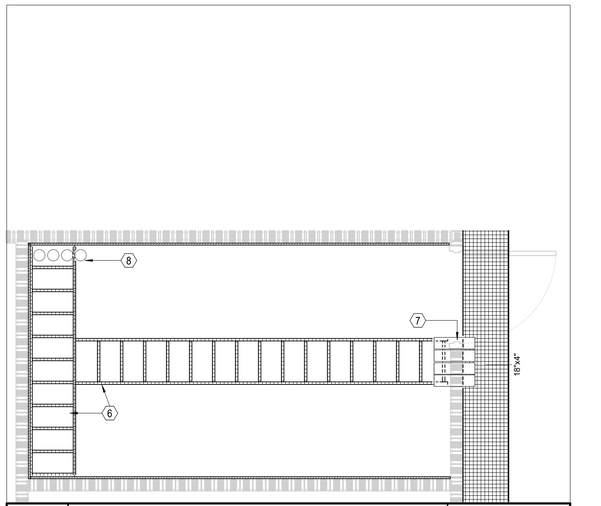
2 T-404 **LEVEL 2 COMM ROOM 203 PART PLAN - ABOVE 7' 6 1/2" = 1'-0"**



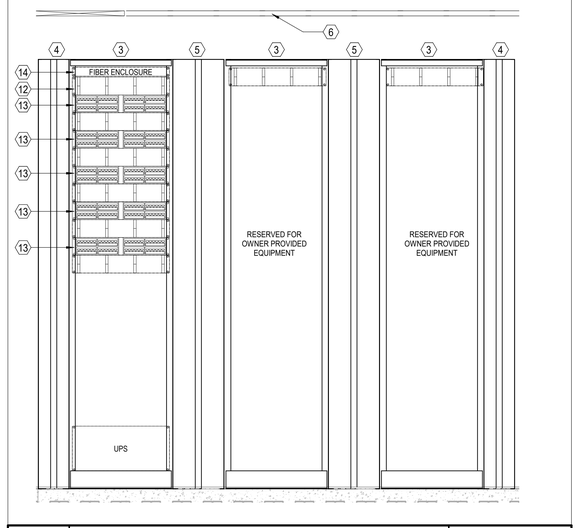
5 T-404 **LEVEL 2 COMM ROOM 203 - RACK ELEVATION** 1" = 1'-0"



3 T-404 **LEVEL 1, 3 & 4 COMM ROOM PART PLAN - BELOW 7' 6 1/2" = 1'-0"**



4 T-404 **LEVEL 1, 3 & 4 COMM ROOM PART PLAN - ABOVE 7' 6 1/2" = 1'-0"**



6 T-404 **LEVEL 1, 3 & 4 COMM ROOM - RACK ELEVATION** 1" = 1'-0"

GENERAL NOTES (THIS SHEET ONLY)

1. AT ALL VERTICAL SLEEVE LOCATIONS, FURNISH AND INSTALL 12"W CABLE RUNWAY MOUNTED VERTICALLY TO ALLOW FOR PROPER SUPPORT OF CABLES.

KEYNOTES (THIS SHEET ONLY)

1. 0.75" PLYWOOD BACKBOARD
2. TELECOMMUNICATIONS GROUNDING BAR
3. 2-POST EQUIPMENT RACK
4. 6" VERTICAL WIRE MANAGER
5. 10" VERTICAL WIRE MANAGER
6. 18"W CABLE RUNWAY
7. (4) 4" FIRESTOPPED SLEEVES
8. 4" FIRESTOPPED SLEEVES TO COMM ROOM ABOVE
9. 4" FIRESTOPPED SLEEVES TO COMM ROOM BELOW
10. SECURITY PANEL BY OWNER'S SECURITY INTEGRATOR
11. 2RU FIBER PATCH PANEL FOR 72 STRAND SINGLEMODE FIBER FROM SERVER 206 TO PROVIDE 12 STRAND
12. SINGLEMODE TO COMM ROOM 103, 303 AND 403. 2RU WIRE MANAGER (TYPICAL)
13. 48 PORT PATCH PANEL FOR HORIZONTAL DISTRIBUTION
14. 1RU FIBER PATCH PANEL FOR 12 STRAND SINGLEMODE FIBER FROM COMM ROOM 203

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TELECOM - COMM ROOM PART PLANS

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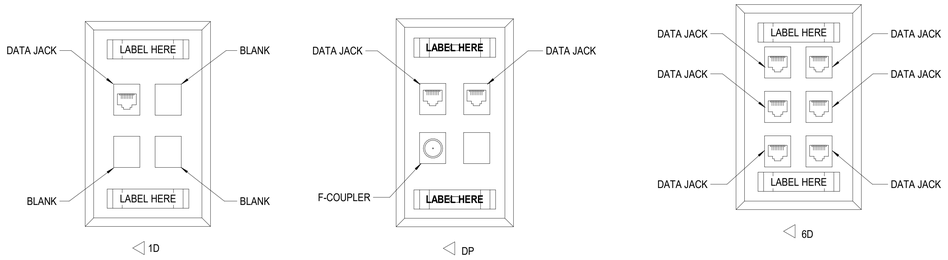
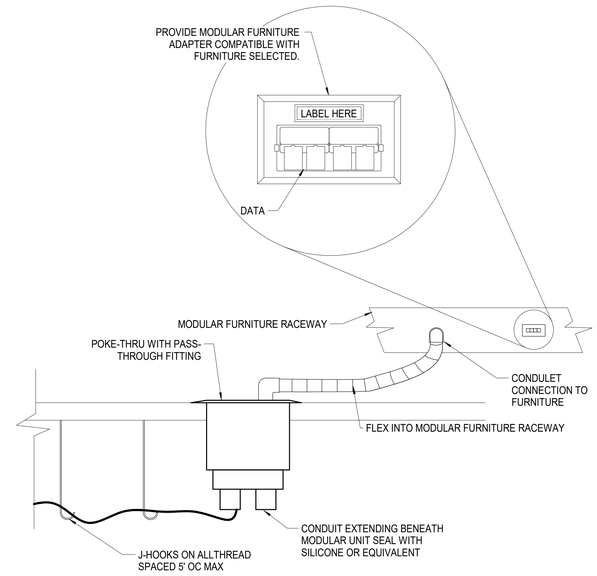
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT TIA/EIA STANDARD PAPER SIZE



NOTES:

1. THIS DRAWING IS INTENDED TO SHOW SOME TYPICAL FACEPLATE LAYOUTS AND IS NOT INTENDED TO SHOW ALL POSSIBLE LAYOUTS. REFER TO LEGEND FOR A LIST OF ALL POSSIBLE FACEPLATE CONFIGURATIONS.

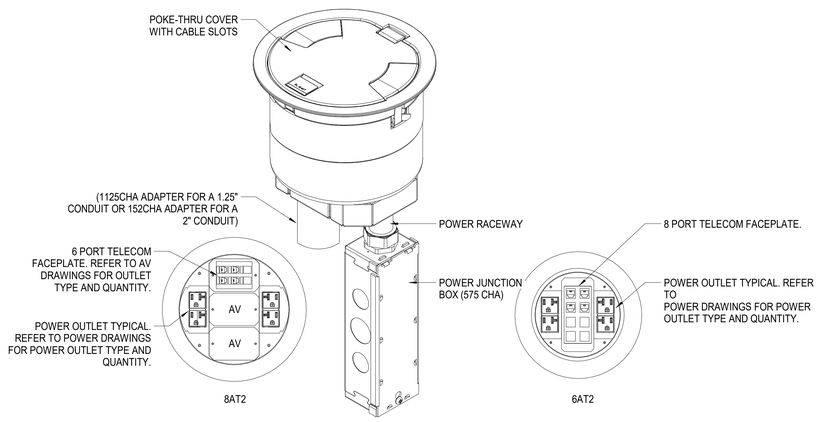
1 / T-501	TELECOM OUTLET - UNIVERSAL DATA AND COAX FACEPLATES	NTS



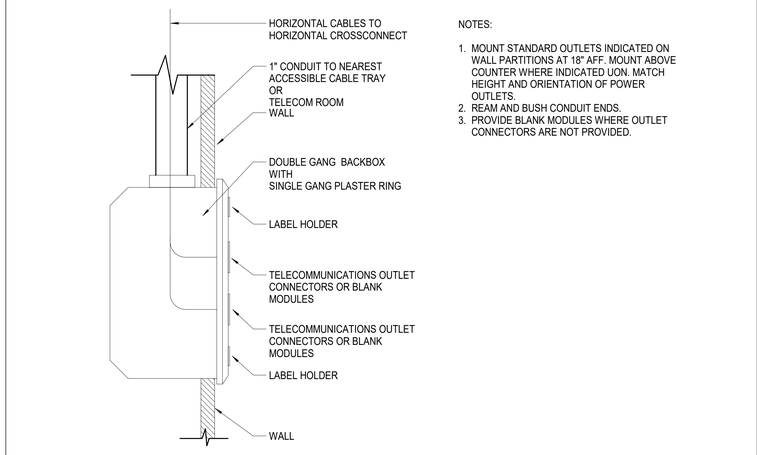
GENERAL NOTES (THIS DETAIL ONLY):

1. COORDINATE WITH POWER DRAWINGS FOR POWER FEEDS.
2. PLACE NO MORE THAN 12 COMMUNICATIONS CABLES IN EACH 1.5" FLEX.
3. COORDINATE WITH LOCATION OF FURNITURE TO ENSURE WHIP IS NO LONGER THAN 2'.
4. MANUFACTURER OF CABLING SYSTEM SHALL WARRANTY MODULAR FURNITURE CHANNEL AS DEPICTED IN THIS DETAIL FOR PERFORMANCE AS REQUIRED IN 16950. FAILURE TO OBTAIN A WRITTEN WARRANTY OF CHANNEL SHALL RESULT IN DEFAULT OF PERFORMANCE REQUIRE.
5. CABLES TO TERMINATE IN TELECOM ROOM ON THE SAME FLOOR AS THE POKE-THROUGH FLOORBOX.

2 / T-501	TELECOM POKE-THROUGH MODULAR FURNITURE CONNECTION DETAIL	NTS



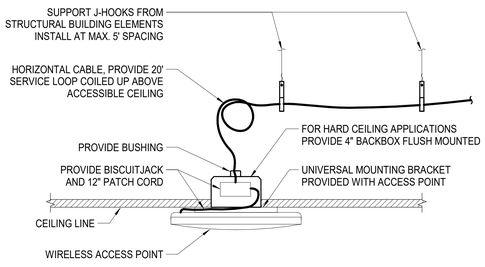
3 / T-501	POKE THRU(WIREMOLD 6AT & 8AT)	NTS



NOTES:

1. MOUNT STANDARD OUTLETS INDICATED ON WALL PARTITIONS AT 18" AFF. MOUNT ABOVE COUNTER WHERE INDICATED UON. MATCH HEIGHT AND ORIENTATION OF POWER OUTLETS.
2. REAM AND BUSH CONDUIT ENDS.
3. PROVIDE BLANK MODULES WHERE OUTLET CONNECTORS ARE NOT PROVIDED.

4 / T-501	TYPICAL TELECOM OUTLET	NTS



5a / T-501	TYPICAL CEILING MOUNTED INDOOR WIRELESS ACCESS POINT	NTS

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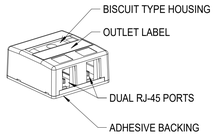
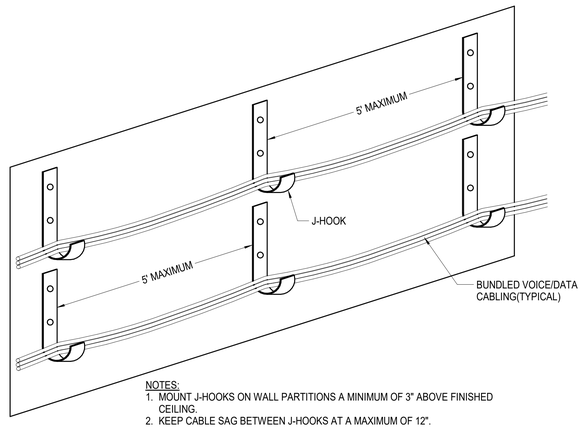


NOTES: (THIS DETAIL ONLY)

1. PROVIDE 0.75" CONDUIT FROM THE CONTROLS PANEL TO NEAREST ACCESSIBLE CEILING SPACE OR CABLE TRAY.
2. PROVIDE BLANK COVER FOR UNUSED PORTS.
3. OUTLET BISCUIT SHALL BE MOUNTED INSIDE THE CONTROLS PANEL. COORDINATE FINAL LOCATIONS WITH CONTROLS CONTRACTOR.

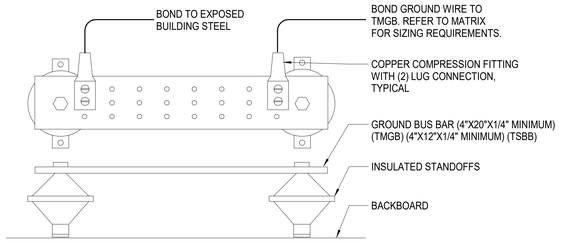
1 T-502	TELECOM BISCUIT JACK	NTS



NOTES:

1. MOUNT J-HOOKS ON WALL PARTITIONS A MINIMUM OF 3" ABOVE FINISHED CEILING.
2. KEEP CABLE SAG BETWEEN J-HOOKS AT A MAXIMUM OF 12".

2 T-502	WALL MOUNTED J-HOOK DETAIL	NTS

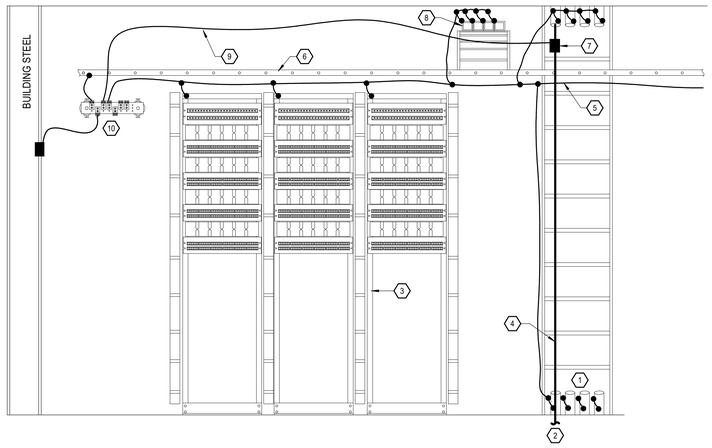


GENERAL NOTES (THIS DETAIL ONLY):

1. PROVIDE (1) GROUND BUS BAR PER TELECOM ROOM.
2. BOND SECONDARY BONDING BUS BAR (SBB) TO THE MAIN GROUND BUS BAR (TMGB) WITH A GROUND WIRE, SIZED FROM CHART.
3. BOND MAIN GROUND BUS BAR TO MAIN ELECTRICAL GROUND (MDG).
4. BOND GROUND WIRES TO BUS BAR WITH TERMINAL BLOCKS.
5. BOND EACH GROUND BUS BAR TO BUILDING STEEL.
6. MAINTAIN MINIMUM BENDING RADIUS IN ROUTING BONDING CONDUCTORS.
7. BONDING CONDUCTORS SHOULD NOT BE SPLICED AT 90 DEGREE BENDS.
8. MOUNT TELECOM GROUND BUS BAR 6" BELOW CABLE RUNWAY IN EACH TELECOM ROOM.
9. INSTALL EACH CONDUCTOR IN SEPARATE CONDUITS.
10. PROVIDE GREEN SHEATHED BONDING CONDUCTORS.

GROUND WIRE LENGTH (LINEAR FT.)	SIZE (AWG)
LESS THAN 13	6 (0.162")
14 TO 20	4 (0.232")
21 TO 26	3 (0.260")
27 TO 33	2 (0.292")
34 TO 41	1 (0.332")
42 TO 52	1/0 (0.373")
53 TO 66	2/0 (0.419")
67 TO 84	3/0 (0.470")
85 TO 105	4/0 (0.528")
106 TO 125	250 kcmil (0.575")
126 TO 150	300 kcmil (0.630")
151 TO 175	350 kcmil (0.681")
176 TO 250	500 kcmil (0.813")
251 TO 300	600 kcmil (0.893")
GREATER THAN 301	750 kcmil (0.998")

3 T-502	GROUND BUS BAR	NTS



GENERAL NOTES (THIS DETAIL ONLY):

1. PBB AND SBB SHALL MAINTAIN A MINIMUM BEND RADIUS OF 8".

KEYED NOTES (THIS DETAIL ONLY): (#)

1. 4" RISER CONDUITS (REFER TO FLOOR PLANS OR ENLARGED PLANS FOR ACTUAL QUANTITIES).
2. CONNECT TBB TO ELECTRICAL PRIMARY BONDING BUSBAR WITH IRREVERSIBLE BOND. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
3. RACK BONDING BUSBAR (RBB). PROVIDE ONE PER RACK AND BOND ACCORDINGLY.
4. TELECOM BONDING BACKBONE (TBB).
5. TELECOM EQUIPMENT BONDING CONDUCTOR (TEBC).
6. CABLE RUNWAY.
7. C-TAP CONNECTION TO TBB.
8. 4" CONDUIT SLEEVES FOR HORIZONTAL DISTRIBUTION (REFER TO FLOOR PLANS OR ENLARGED PLANS FOR ACTUAL QUANTITIES).
9. TELECOM BONDING CONDUCTOR (TBC).
10. SECONDARY BONDING BUSBAR (SBB).

4 T-502	COMM ROOM GROUNDING REQUIREMENTS	NTS

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T-502

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GENERAL NOTES (THIS SHEET ONLY)

1. AT ALL VERTICAL SLEEVE LOCATIONS, FURNISH AND INSTALL 12"W CABLE RUNWAY MOUNTED VERTICALLY TO ALLOW FOR PROPER SUPPORT OF CABLES.

KEYNOTES (THIS SHEET ONLY)

1. (6) 4" CONDUITS FOR SERVICE PROVIDER FIBER TO EXISTING MANHOLES. CONTRACTOR MUST VERIFY AND COORDINATE EXACT LOCATIONS. SEE TELECOM SITE PLAN FOR DETAILS.
2. (2) 4" CONDUITS FOR FIBER REDUNDANCY FROM SERVER ROOM 206 TO TOWER AREA. CONTRACTOR MUST VERIFY AND COORDINATE EXACT LOCATION. SEE TELECOM SITE PLAN FOR DETAILS.
3. (6) 4" CONDUITS FROM SERVER ROOM 206 TO FLOOR BELOW FOR LEVEL 1 HORIZONTAL DISTRIBUTION CABLES VIA HVAC ROOM 109 CEILING TO BASKET TRAY IN CORRIDOR 178
4. (4) 4" FIRESTOPPED SLEEVES FOR HORIZONTAL DISTRIBUTION
5. (6) 4" FIRESTOPPED SLEEVES FOR HORIZONTAL DISTRIBUTION
6. (4) 4" FIRESTOPPED SLEEVES TO COMM ROOM ABOVE
7. AUDIOVISUAL FIRESTOPPED SLEEVES BY OTHERS. SEE AUDIOVISUAL DRAWINGS FOR DETAILS.
8. HORIZONTAL DISTRIBUTION CABLES (TYPICAL)
9. 72 STRAND SINGLEMODE FIBER FROM SERVER ROOM 206 TO COMM ROOM 203
10. 12 STRAND SINGLEMODE FIBER FROM COMM 203 TO FLOOR BELOW TO COMM 103.
11. 12 STRAND SINGLEMODE FIBER FROM COMM 203 TO FLOOR ABOVE TO COMM ROOM 303.
12. 12 STRAND SINGLEMODE FIBER FROM COMM 203 TO FLOOR ABOVE TO COMM ROOM 403.
13. 12 STRAND SINGLEMODE FIBER FROM AV ROOM SERVER ROOM 145 TO EOC/STORAGE ROOM 275. SEE AV DRAWINGS FOR DETAILS.
14. (8) 4" FIRESTOPPED SLEEVES FOR HORIZONTAL DISTRIBUTION FROM DEMARC ROOM 208 TO SERVER ROOM 206
15. TELEPHONE SERVICE PROVIDER CABLING. COORDINATE WITH SERVICE PROVIDER AND OWNER.
16. SERVICE PROVIDER CABLING. COORDINATE WITH SERVICE PROVIDER AND BUILDING OWNER PRIOR TO ORDERING.

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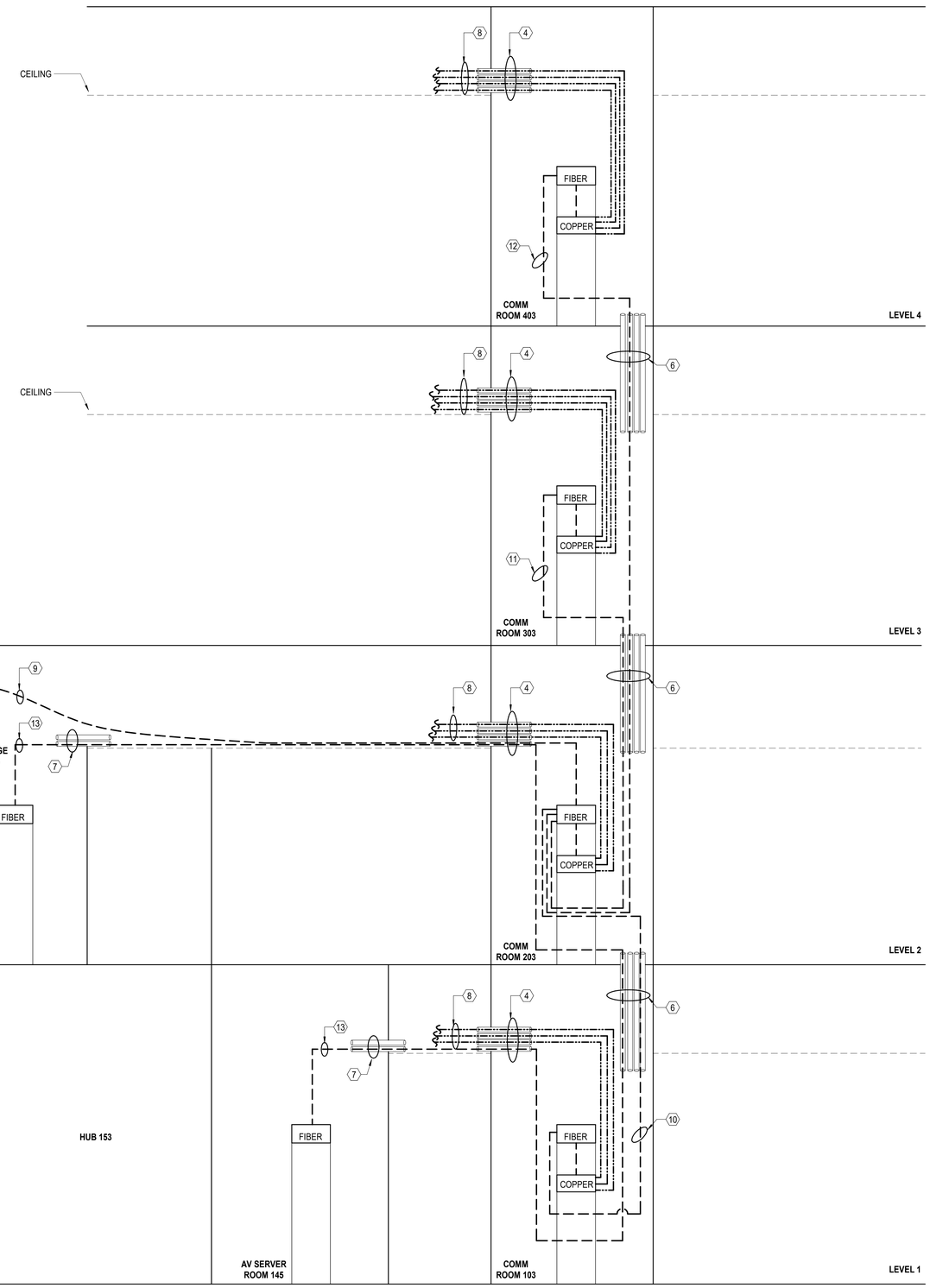

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1 T-601 TELECOM RISER DIAGRAM (DIAGRAMMATIC)

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SECURITY SYMBOL LEGEND

ACCESS CONTROL SYSTEM:

- ACCESS CONTROL CARD READER
- ACCESS CONTROL KEYPAD READER
- M — MAGNETIC CONTACT
- EL — ELECTRIC MORTISE LOCK WITH INTEGRAL REQUEST-TO-EXIT SWITCH (PROVIDED UNDER DIVISION 8 SPECIFICATIONS)
- ED — ELECTRIC EXIT DEVICE LOCK WITH INTEGRAL REQUEST-TO-EXIT SWITCH (PROVIDED UNDER DIVISION 8 SPECIFICATIONS)
- CB — MECHANICAL EXIT DEVICE WITH INTEGRAL REQUEST-TO-EXIT SWITCH (PROVIDED UNDER DIVISION 8 SPECIFICATIONS)
- DE — DELAYED EGRESS EXIT DEVICE (PROVIDED UNDER DIVISION 8 SPECIFICATIONS)
- PT — ELECTRIC POWER TRANSFER (PROVIDED UNDER DIVISION 8 SPECIFICATIONS)
- MD — CEILING MOUNTED 360 DEGREE MOTION DETECTOR
- LA — LOCAL DOOR ALARM
- DR — REMOTE DOOR RELEASE
- LD — LOCK DOWN BUTTON
- CH — DURESS PUSH-FOR-HELP BUTTON
- J — DOOR CHIME (POTTER CM4-L OR APPROVED EQUAL)
- T — 4" JUNCTION BOX WITH COVER AND TAMPER RESISTANT SCREWS
- PS — TAMPER SWITCH
- RX — LOCAL DOOR HARDWARE POWER SUPPLY FOR ELECTRIC LATCH RETRACTION TYPE LOCKING HARDWARE (PROVIDED UNDER DIVISION 8 SPECIFICATIONS)
- REQUEST-TO-EXIT MOTION DETECTOR.
- REQUEST-TO-EXIT PUSHBUTTON.
- DO — EMERGENCY DOOR RELEASE PUSH BUTTON
- DA — ADA DOOR OPERATOR (PROVIDED UNDER DIVISION 8 SPECIFICATIONS)
- DJB — ADA DOOR OPERATOR ACTUATOR BUTTON (PROVIDED UNDER DIVISION 8 SPECIFICATIONS)
- 8"x8"x4" DOOR JUNCTION BOX WITH COVER AND TAMPER RESISTANT SCREWS
- SEC — SECURITY ENCLOSURES (ACCESS CONTROL PANELS, AND DOOR LOCKING HARDWARE POWER SUPPLIES, ETC.)
- AED — AUTOMATIC ELECTRONIC DEFIBRILATOR CONNECTION TO ACS

VIDEO SURVEILLANCE SYSTEM:

- FIXED IP CAMERA
- FIXED MULTI-SENSOR IP CAMERA
- PAN-TILT-ZOOM DOME IP CAMERA
- 360 DEGREE DOME IP CAMERA
- CPS — LOCAL CAMERA POWER SUPPLY
- VSS — VSS NETWORK VIDEO RECORDER
- LAN — VMS NETWORK SWITCH

SECURITY COMMUNICATION SYSTEM:

- SECURITY TELEPHONE CALL STATION
- EMERGENCY CALL STATION WITH AUXILIARY BLUE LIGHT
- VIM — INTERCOM MASTER STATION
- DWS — SECURITY OPERATOR WORKSTATION

SECURITY GENERAL NOTES

1. CONDUIT ROUGH-IN FOR SECURITY DEVICES AS INDICATED ON DRAWINGS IS PROVIDED UNDER BASE BUILDING CONSTRUCTION CONTRACT. SECURITY SYSTEMS INTEGRATOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO ENSURE THAT CONDUIT PROVISIONS ARE APPROPRIATE FOR THE EQUIPMENT PROVIDED.
2. ALL ELECTRICAL POWER WIRING SIZING, INSTALLATION AND CONNECTIONS SHALL BE DONE BY A CERTIFIED ELECTRICAL CONTRACTOR.
3. ALL FINAL DIMENSIONS , LOCATIONS AND POSITION OF DEVICES SHALL BE VERIFIED IN THE FIELD.
4. REFER TO THE SPECIFICATIONS FOR DATA NOT SHOWN ON THE DRAWINGS.
5. ALL DEVICES MOUNTING HEIGHTS TO CENTER OF ITEMS UNLESS NOTED OTHERWISE.
6. GROUNDING BUSBAR OR BONDING POINT SHALL BE PROVIDED IN ALL EQUIPMENT LOCATIONS OR ROOMS BY OTHERS. TOTAL RESISTANCE TO EARTH GROUND SHALL BE 25 OHMS OR LESS.
7. ALL METAL EQUIPMENT ENCLOSURES SHALL BE PROPERLY GROUNDED AS PER LOCAL ELECTRICAL CODE OR AUTHORITY HAVING JURISDICTION (AHJ).
8. TELECOMMUNICATIONS EQUIPMENT RACKS SHALL BE GROUNDED AS PER ANSI JOINT STANDARD ANSI-J-STD-607-A
9. LOW VOLTAGE POWER AND SIGNAL CABLES SHALL BE RUN IN SEPARATE CONDUIT FROM 120 VAC AND HIGHER VOLTAGE CABLES.
10. POWER CONDUITS RUN IN PARALLEL TO SIGNAL CABLING SHALL HAVE A MINIMUM SEPARATION OF 4 INCHES.
11. LOCAL AREA NETWORK (LAN) AND RELATED COMMUNICATIONS CABLING AND INSTALLATION PRACTICES SHALL BE CERTIFIED TO CONFORM WITH THE LATEST EDITION OF THE TIA/EIA 568 STANDARDS.
12. CATEGORY 6 CABLE RUNS SHALL NOT EXCEED 90 METERS (295 FT.) AND THE SUM OFF ALL PATCH CORDS AND CROSS CONNECTION WIRING SHALL BE LIMITED TO 10 METERS MAXIMUM.
13. EXTERIOR SECURITY DEVICES SHALL BE PROTECTED BY LIGHTNING/SURGE PROTECTION DEVICE. THESE DEVICES SHALL BE PROPERLY GROUNDED.
14. END OF LINE (EOL) RESISTOR PACKS SHALL BE PLACED AT THE FIELD DEVICE END TO ALLOW PROPER CIRCUIT SUPERVISION. EOL RESISTORS ON CONTROLLERS OR MONITOR MODULES END ARE NOT ACCEPTABLE.
15. ALL NETWORKING DESIGN DETAILS, IP RANGES AND PORTS ASSIGNMENTS SHALL BE COORDINATED WITH THE CUSTOMER IT DEPARTMENT.
16. STRANDED CABLES TERMINATION SHALL BE DONE WITH SUITABLE TERMINAL LUGS AS PREFERED PRACTICE. WHEN NOT POSSIBLE CABLES SHALL BE TIN WELDED TO KEEP STRANDS BONDED TOGETHER.
17. OWNER WILL COORDINATE ALL LINE VOLTAGE REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
18. OWNER WILL COORDINATE ALL FINAL LOW VOLTAGE ROUGH IN REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

1 / SC-001	SECURITY SYMBOLS LEGEND	NTS

TYPICAL DEVICE ROUGH-IN REQUIREMENTS

DEVICE	BACKBOX TYPE	SYMBOL	MOUNTING HEIGHT	NOTES
CARD READER	SINGLE GANG		42" A.F.F.	4" BOX + SINGLE GANG MUD RING
EMERGENCY DOOR RELEASE	SINGLE GANG		42" A.F.F.	4" BOX + SINGLE GANG MUD RING
REQUEST-TO-EXIT PUSHBUTTON	SINGLE GANG		42" A.F.F.	4" BOX + SINGLE GANG MUD RING
MAGNETIC SWITCH	N/A	M	N/A	STUB CONDUIT INTO DOOR HEADER
ELECTRIC LOCK	N/A	EL	N/A	STUB CONDUIT INTO DOOR HEADER
EXIT DEVICE (ELEC. OR MECH.)	N/A	CB	N/A	STUB CONDUIT INTO DOOR HEADER
DELAYED EGRESS EXIT DEVICE	N/A	DE	N/A	ROUTE CABLING THROUGH DOOR
ELECTRIC EXIT DEVICE	N/A	ED	N/A	ROUTE CABLING THROUGH DOOR
AUTOMATIC DOOR ACTUATOR	SINGLE GANG	DA	42" A.F.F.	ADJACENT TO CARD READER
LOCAL DOOR ALARM	SINGLE GANG	LA	BFC	XX
RTE MOTION DETECTOR	SINGLE GANG	RX	BFC	XX
ELECTRIC POWER TRANSFER	N/A	PT	N/A	COORDINATE WITH DIVISION 26
DOOR POWER SUPPLIES	N/A	PS	N/A	COORDINATE WITH DIVISION 26

2 / SC-001	ACS DEVICE ROUGH-IN REQUIREMENTS	NTS

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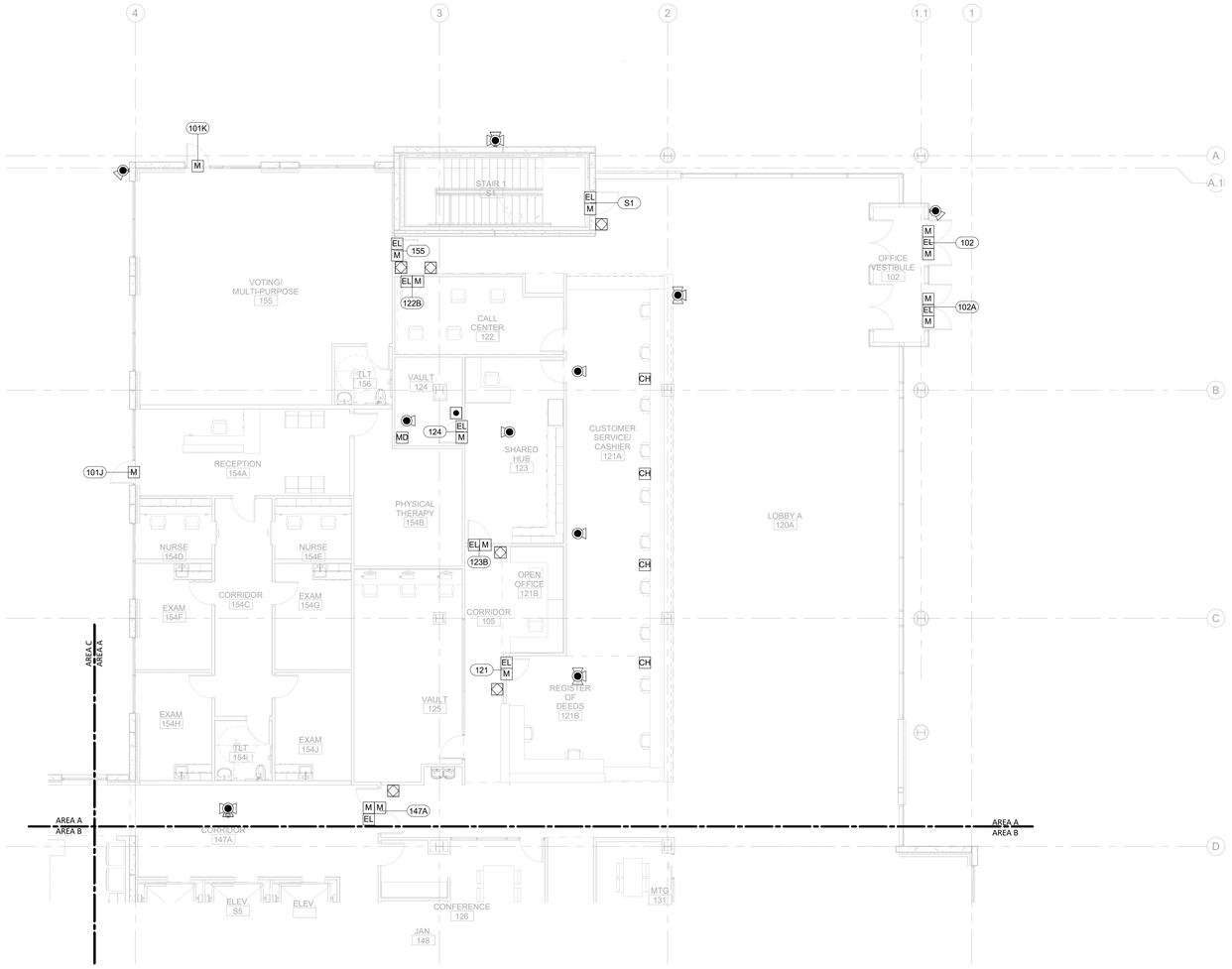

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1 SC-101A	SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"

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NEW HANOVER COUNTY GOVERNMENT CENTER

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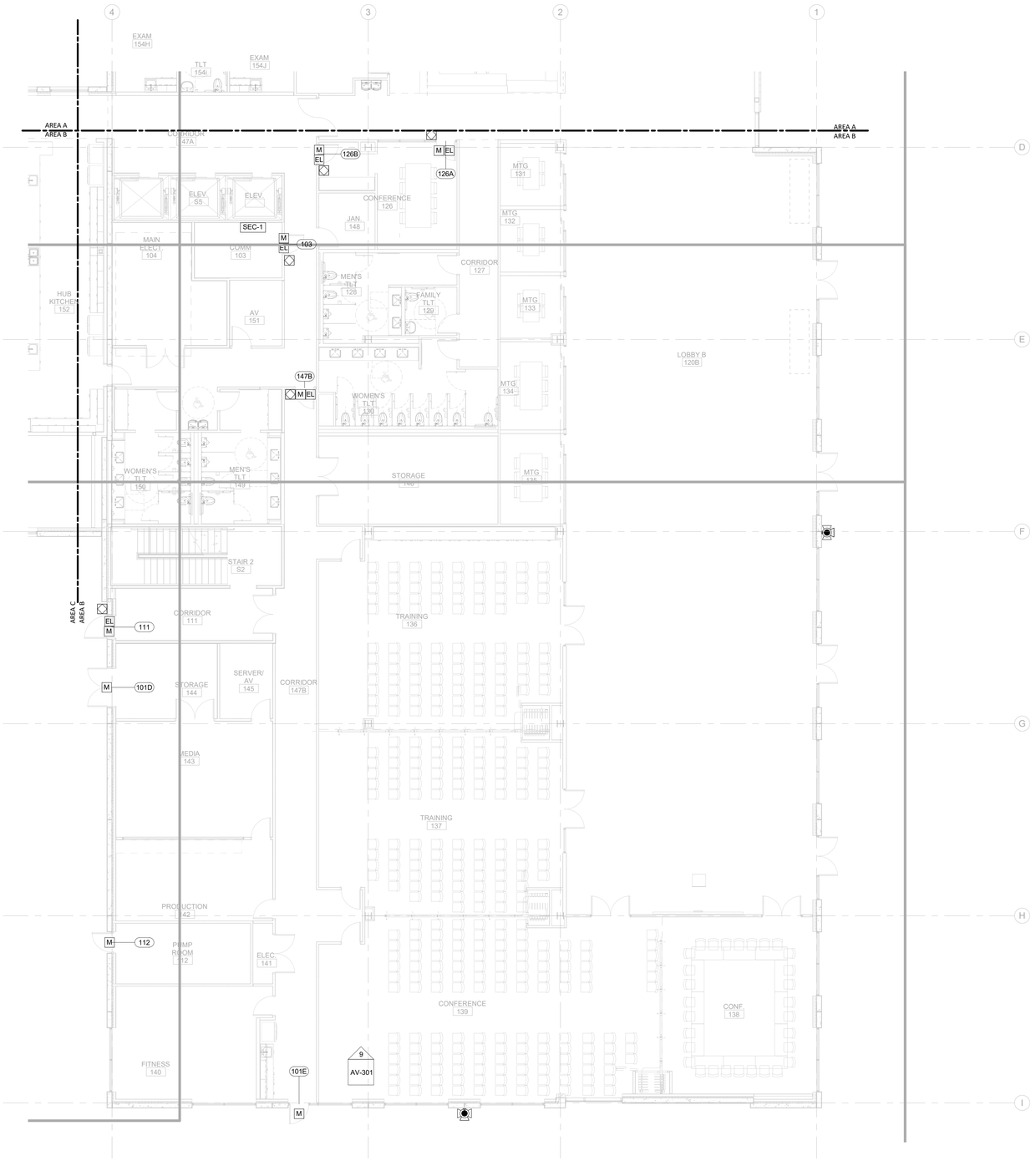
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
SECURITY FLOOR PLAN
- LEVEL 1 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
SC-101A

TI GMP SET



1 SC-101B	SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B	1/8" = 1'-0"

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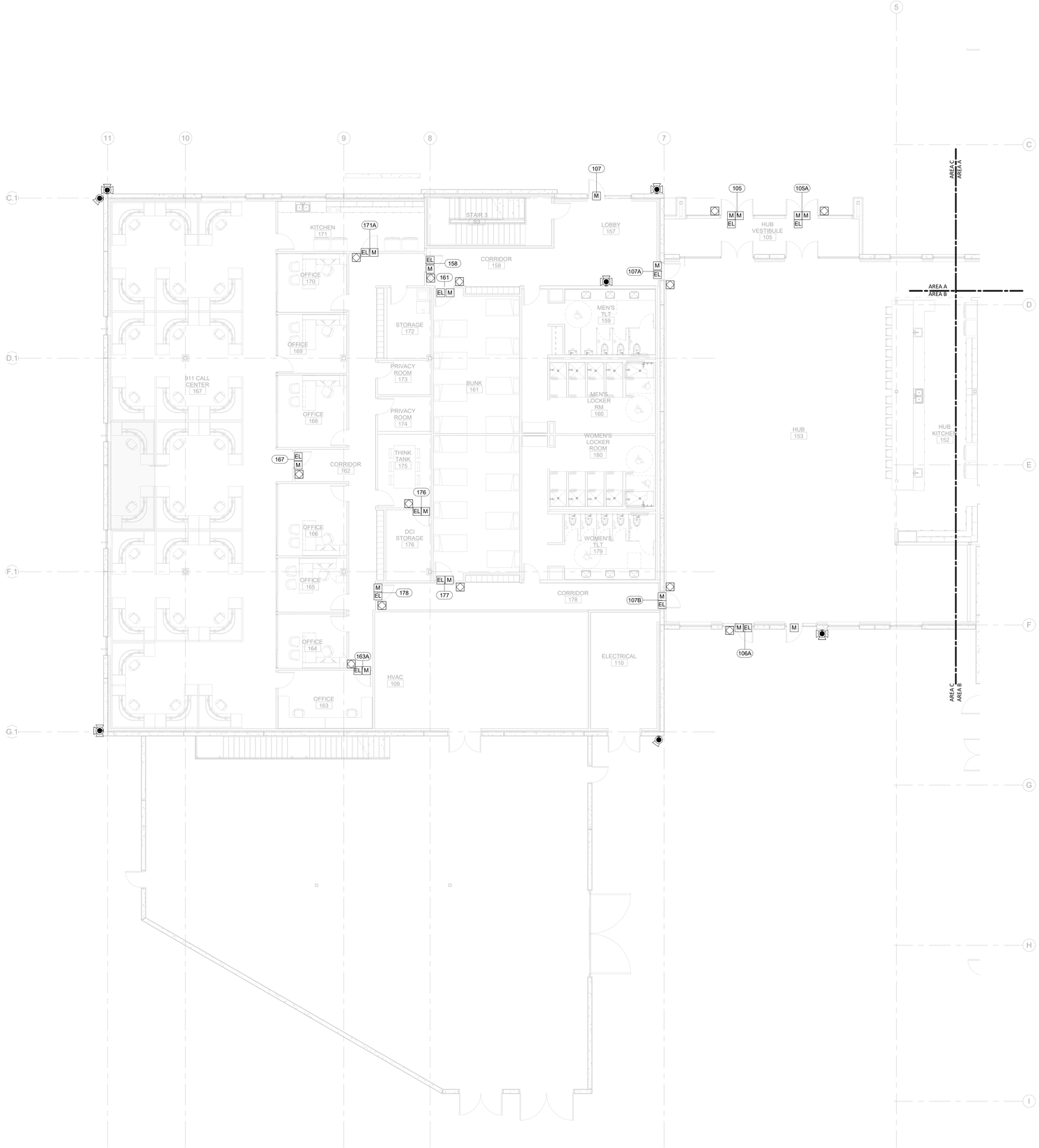
SHEET NAME:
SECURITY FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
SC-101B

TI GMP SET



1 SC-101C **SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** 1/8" = 1'-0"

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SHEET NAME:
SECURITY FLOOR PLAN - LEVEL 1 - AREA C

DATE:
CURRENT: 2020.11.20
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SHEET:
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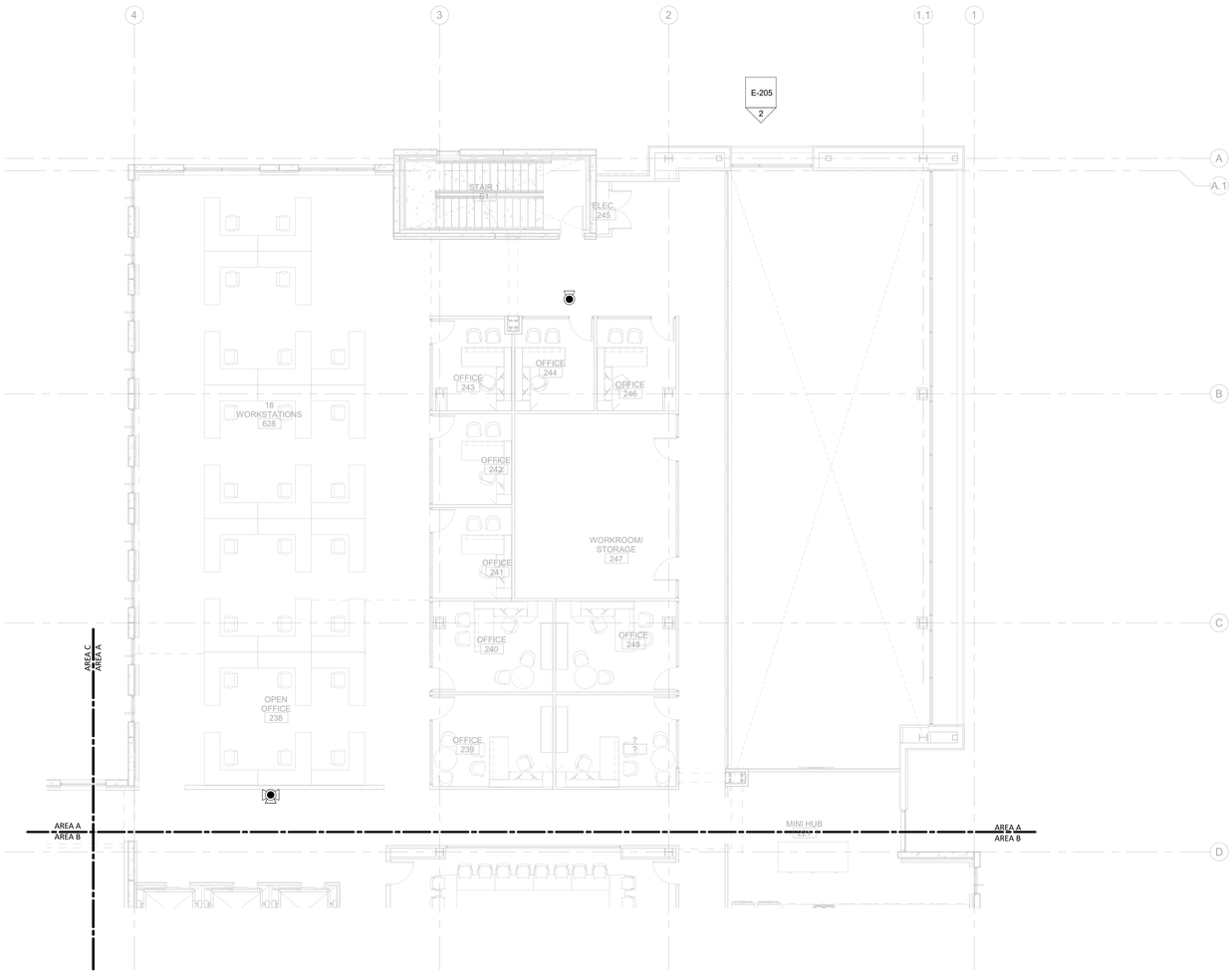

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1 SC-102A	SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A	1/8" = 1'-0"

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Δ	DATE	DESCRIPTION

SHEET NAME:
SECURITY FLOOR PLAN
- LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
SC-102A

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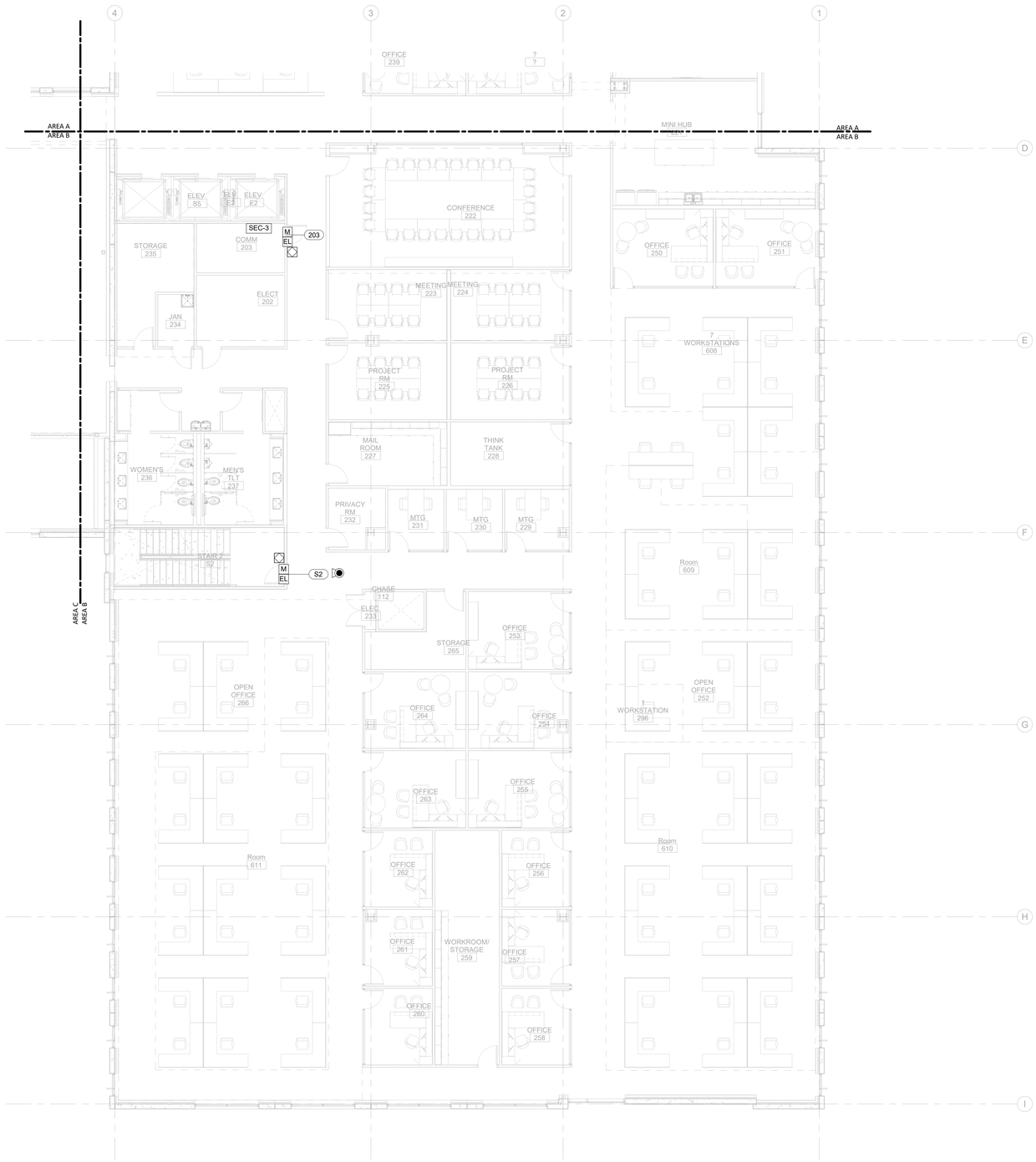

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1 SC-102B **SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B** 1/8" = 1'-0"

1 2 3 4 5 6

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SHEET NAME:
SECURITY FLOOR PLAN - LEVEL 2 - AREA B

DATE:
CURRENT: 2020.11.20
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SHEET:
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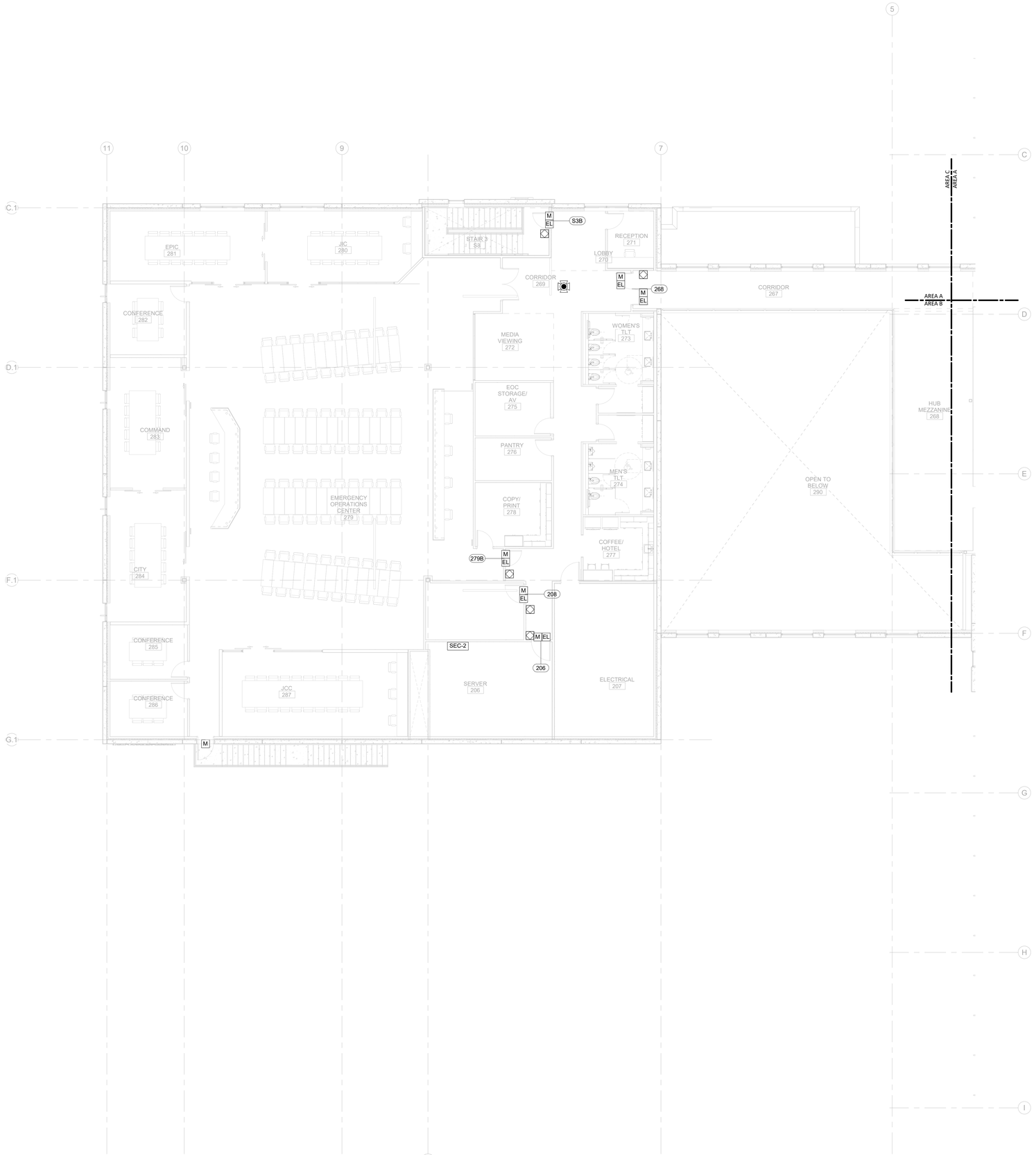

1 SC-102C **SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** 1/8" = 1'-0"

11/19/2020 2:43:38 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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SHEET NAME:
SECURITY FLOOR PLAN - LEVEL 2 - AREA C

DATE:
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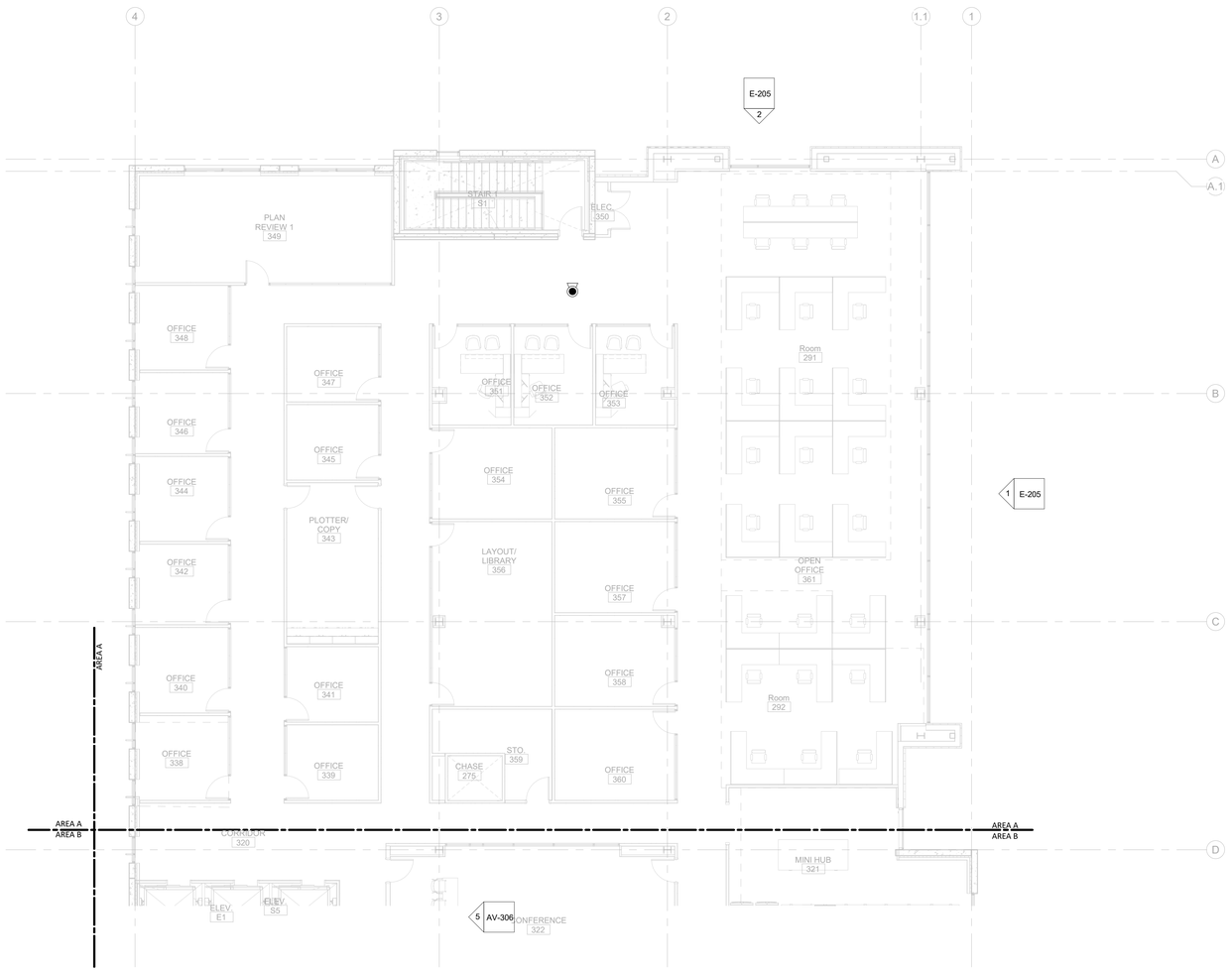
SHEET:
SC-102C

TI GMP SET



1 SC-103A **SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A** 1/8" = 1'-0"

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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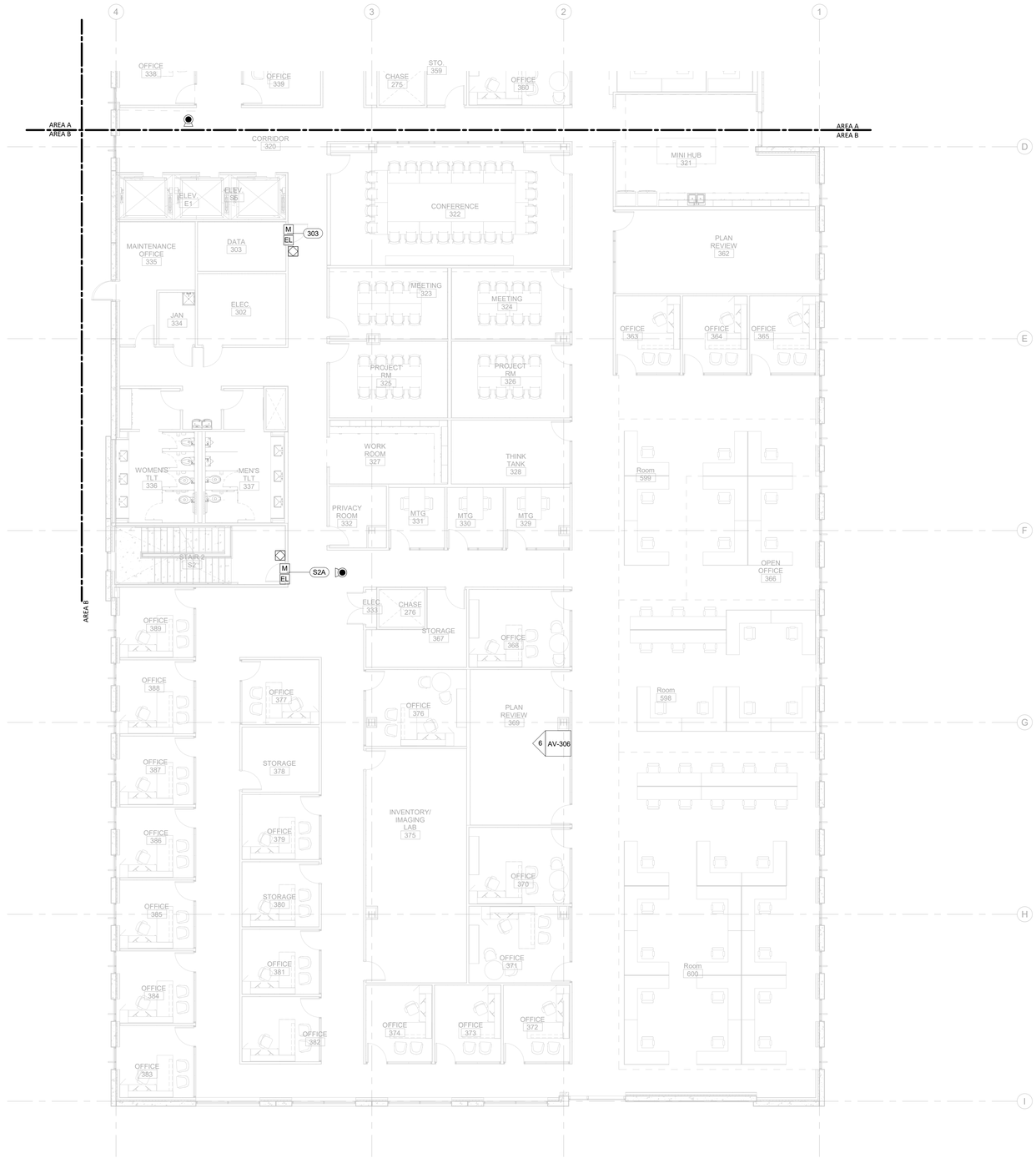
Firm License No. F-0312

SHEET NAME:
SECURITY FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
SC-103A

TI GMP SET



1 SC-103B	SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B	1/8" = 1'-0"

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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SHEET NAME:
SECURITY FLOOR PLAN - LEVEL 3 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
SC-103B

TI GMP SET

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE



1 SC-104A **SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A** 1/8" = 1'-0"

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SHEET NAME:
SECURITY FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
SC-104A

TI GMP SET



THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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1 / SC-104B	SECURITY TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B	1/8" = 1'-0"

1 2 3 4 5 6

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SHEET NAME:
SECURITY FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
SC-104B

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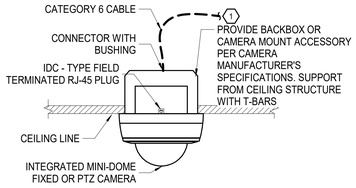
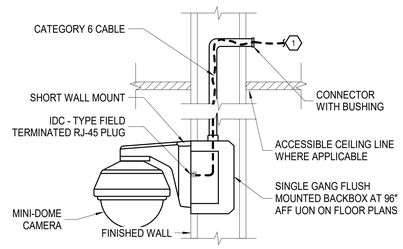


1 SC-501	CAMERA - FINISHED CEILING SURFACE MOUNTED (WHERE APPLICABLE)	NTS



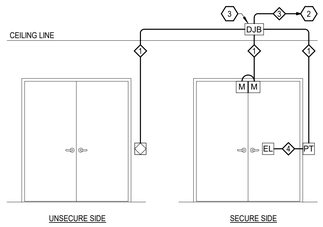
2 SC-501	CAMERA WALL MOUNTED (WHERE APPLICABLE)	NTS

CAMERA DETAILS

1. DETAILS ARE DIAGRAMMATIC AND SHALL NOT BE USED TO DETERMINE EQUIPMENT LOCATIONS. FLOOR PLANS INDICATE EQUIPMENT LOCATIONS.
2. REFERENCE FLOOR PLANS FOR SWITCH LOCATION DESIGNATION FOR EACH CAMERA.
3. COORDINATE DOOR ROUGH-IN AND WIRING REQUIREMENTS WITH THE FINAL CAMERA SELECTION.
4. RACEWAYS SHALL BE CONCEALED IN WALLS OR CEILING UNLESS OTHERWISE NOTED.
5. CABLING INSTALLED ON J-HOOKS, AND CONDUIT RUNS SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL ELEMENTS.RUNNING CABLING OR CONDUIT DIAGONALLY ACROSS ANY SPACE INCLUDING AREAS CONCEALED ABOVE FINISHED CEILING SHALL NOT BE PERMITTED. ROUTE CABLING ON J-HOOKS IN A NEAT BUNDLE HELD TOGETHER WITH PLENUM RATED VELCRO FASTENERS.
6. PROVIDE PULL STRING IN EACH CONDUIT AT ROUGH-IN.
7. COORDINATE THE WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
8. FOR CAMERAS WHERE TOTAL CABLE LENGTH BETWEEN CAMERA AND SWITCH EXCEEDS THE 295' ETHERNET DISTANCE PROVIDE PoE EXTENDERS.

KEY NOTES (THIS SHEET ONLY):

(1) PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. CABLING SHALL BE EXTENDED TO SECURITY ENCLOSURES VIA J-HOOKS SPACED AT MAX. 5'. WHERE CABLES PASS THROUGH SPACES WITH EXPOSED CEILING OR ABOVE INACCESSIBLE CEILING, INSTALL CABLES IN 1" CONDUIT. PROVIDE CONDUIT SLEEVES THROUGH ALL WALL PENETRATIONS AND FIRESTOP AS REQUIRED FOR PARTITION TYPE.



4 SC-501	DOUBLE DOOR - CONDUIT ROUGH-IN DETAIL	NTS

20 SC-501	DOOR TYPE 1	NTS

DOOR ROUGH-IN NOTES:

1. DOOR DETAILS ARE DIAGRAMMATIC AND SHALL NOT BE USED TO DETERMINE EQUIPMENT LOCATIONS. FLOOR PLANS INDICATE EQUIPMENT LOCATIONS.
2. COORDINATE DOOR ROUGH-IN AND WIRING REQUIREMENTS WITH THE FINAL DOOR SCHEDULE AND DOOR HARDWARE SPECIFICATIONS.
3. DOOR HARDWARE CABLING TO ACCESSIBLE CEILING SPACE SHALL BE FURNISHED UNDER DIVISION 8 SPECIFICATIONS. CABLING AND CONNECTION TO SECURITY SYSTEM SHALL BE BY SECURITY CONTRACTOR.
4. RACEWAYS SHALL BE CONCEALED IN WALLS OR CEILING UNLESS OTHERWISE NOTED.
5. PROVIDE PULL STRING IN EACH CONDUIT.
6. COORDINATE THE WORK WITH OTHER TRADES PRIOR TO INSTALLATION.

KEY NOTES (DOOR DETAILS ONLY):

(1) CONDUIT TO NEAREST ACCESSIBLE CONCEALED CEILING SPACE FOR CABLING BY OWNER'S SECURITY INTEGRATOR.

(2) 8"X8"X4" DOOR JUNCTION BOX (DJB). MOUNT ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR. FOR DOORS WITH FINISHED CEILINGS ON SECURE SIDE MOUNT IN NEAREST ACCESSIBLE CEILING SPACE.

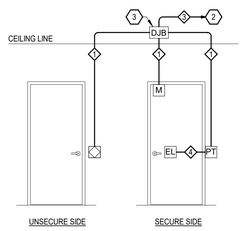
LEGEND (DOOR DETAILS ONLY):

M	DOOR CONTACT	PT	POWER TRANSFER
EL	ELECTRIFIED LOCK	DJB	DOOR JUNCTION BOX

CONDUIT TAG LEGEND (DOOR DETAILS ONLY):

1. 0.5" CONDUIT
2. 0.75" CONDUIT
3. 1" CONDUIT
4. WIRING BY DOOR HARDWARE CONTRACTOR

5 SC-501	DOOR ROUGH-IN NOTES	NTS



3 SC-501	SINGLE DOOR - CONDUIT ROUGH-IN DETAIL	NTS

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Δ	DATE	DESCRIPTION

SHEET NAME:
SECURITY DETAILS

DATE:
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TI GMP SET

SHEET:
SC-501

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1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

AUDIO-VISUAL INFRASTRUCTURE / SYSTEM SYMBOLS AND LEGEND

AV INFRASTRUCTURE SYMBOLS LEGEND						
DRAWING SYMBOL	NAME	BACKBOX SIZE EXTRA DEEP	MOUNTING HEIGHT AFF	CONDUIT QTY	CONDUIT SIZE (AV)	NOTES
TV1	FLAT PANEL DISPLAY TYPE 1	CHIEF PAC501	SEE ELEVATIONS	2	1.25"	ROUTE CONDUIT TO NEAREST CABLE TRAY. PROVIDE PLYWOOD BLOCKING. SEE AV-401/3 FOR ADDITIONAL REQUIREMENTS.
TV2	FLAT PANEL DISPLAY TYPE 2	CHIEF PAC526	SEE ELEVATIONS	2	1.25"	ROUTE CONDUIT TO NEAREST CABLE TRAY. PROVIDE PLYWOOD BLOCKING. SEE AV401/4 FOR ADDITIONAL REQUIREMENTS.
W1	WALL BOX TYPE 1	4G	18" UON	2	1.25"	ROUTE ONE CONDUIT TO NEAREST CABLE TRAY. ROUTE SECOND CONDUIT TO TV# BOX ABOVE.
W2	WALL BOX TYPE 2	4G	18" UON	1	1.25"	ROUTE CONDUIT TO NEAREST CABLE TRAY.
AV2 X	AV WALL PLATE TYPE 1	2G	80" UON	1	1.25"	PROVIDE CONDUIT TO NEAREST ACCESSIBLE CEILING CLOSE TO THE CABLETRAY. PROVIDE PLYWOOD BLOCKING BETWEEN STUDS. PROVIDE POWER AND DATA CONNECTIONS WITHIN 1 STUD FRAME OR 6" FROM THE AV WALL PLATE. X IS THE HEIGHT OF JBOX IN INCH.
C	PTZ CAMERA BOX	2G	96" UON	1	1.0"	ROUTE CONDUIT TO NEAREST CABLE TRAY. CONFIRM BOX LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
T1	WALL MOUNTED CONTROL PANEL	2G	48"	2	1.0"	ROUTE ONE CONDUIT TO NEAREST CABLE TRAY. ROUTE SECOND CONDUIT TO TV# BOX IN SAME ROOM.
T2	WALL MOUNTED CONTROL PANEL	2G	48"	1	1.0"	ROUTE ONE CONDUIT TO NEAREST CABLE TRAY.
SP	SCHEDULING PANEL	2G	48"	1	1.0"	ROUTE CONDUIT TO NEAREST CABLE TRAY. SEE AV-403/3 FOR ADDITIONAL REQUIREMENTS.
SC	PROJECTOR SCREEN CONTROL PANEL	1G	48"	2	1.0"	ROUTE ONE CONDUIT TO PROJECTION SCREEN MOTOR IN SAME ROOM. ROUTE SECOND CONDUIT CONDUIT TO AV RACK ROOM SERVING ROOM WHERE PROJECTION SCREEN IS LOCATED. SEE PLANS.
J1	TV STUDIO JUNCTION BOX	18 X 18 X 6 NEMA 1	24"	2	2.0"	ROUTE ONE CONDUIT TO J2. ROUTE ONE CONDUIT TO J3. ROUTE ONE CONDUIT TO J4.
J2	TV STUDIO JUNCTION BOX	18 X 18 X 6 NEMA 1	24"	2	2.0"	ROUTE ONE CONDUIT TO J4. ROUTE ONE CONDUIT TO J3. ROUTE ONE CONDUIT TO J3.
J3	TV STUDIO JUNCTION BOX	18 X 18 X 6 NEMA 1	24"			
J4	TV STUDIO JUNCTION BOX	12 X 12 X 6 NEMA 1	24"			
S	CEILING MOUNTED SPEAKER LOCATION.		CEILING	1	1.0"	ROUTE CONDUIT FROM ABOVE FINISHED CEILING IN ROOMS WITH SPEAKERS TO AV ROOMS. SEE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS. SPEAKER PROVIDED BY OTHERS. COORDINATE FINAL LOCATION WITH ARCHITECTUAL DRAWINGS.
S	WALL MOUNTED SPEAKER	1G	SEE ELEVATION	1	1.0"	PROVIDE CONDUIT TO NEAREST ACCESSIBLE CEILING. COORDINATE FINAL LOCATION WITH ARCHITECTUAL DRAWINGS.
OC	OCCUPANCY SENSOR		CEILING			COORDINATE FINAL LOCATION WITH ARCHITECTUAL DRAWINGS. ROUTE CONDUIT FROM ABOVE CEILING TO NEAREST CABLE TRAY.
AVL	AV LECTERN					COORDINATE FINISH COLOR WITH ARCHITECT.
AVC	AV CREDENZA	4G	18"	2	1.25"	ROUTE ONE CONDUIT ABOVE FINISHED CEILING IN SAME ROOM AS BOX. ROUTE SECOND CONDUIT TO NEAREST CABLE TRAY.
	FLOORSTANDING AV RACK	12x12x6 NEMA 1	18"	2	1.25"	PROVIDE CONDUIT TO NEAREST ACCESSIBLE CEILING. ENSURE CABLE PATHWAY TO ANY ASSOCIATED AV ENABLED SPACE.
C FB #	AV/TELECOM SHARED FLOORBOX	FSR-540P-4-B, w/ POUR PAN	FLOOR	SEE DETAIL	SEE DETAIL	# INDICATES CONDUIT ROUTING SCHEME. SEE AV-401/1 FOR CONDUIT ROUTING AND ADDITIONAL REQUIREMENTS.
B PT #	AV/TELECOM SHARED POKE-THRU	LEGRAND 8ATC2P PREWIRED ASSEMBLY	FLOOR	SEE DETAIL	SEE DETAIL	# INDICATES CONDUIT ROUTING SCHEME. SEE AV-401/2 FOR CONDUIT ROUTING ADDITIONAL REQUIREMENTS.
CB	PROJECTOR WITH CEILING BOX		CEILING	SEE DETAIL	SEE DETAIL	PROJECTOR PROVIDED BY OTHERS. PROVIDE RECESSED CEILING BOX. SEE AV-403/1 FOR ADDITIONAL REQUIREMENTS.
	MOTORIZED PROJECTION SCREEN		CEILING	1	1.0"	PROVIDE CONDUIT TO NEAREST ACCESSIBLE CEILING. ELECTRICAL CONTRACTOR TO STAGE POWER AND COORDINATE TERMINATION INTO SCREEN WITH AV CONTRACTOR. COORDINATE FINAL LOCATION WITH ARCHITECTUAL DRAWINGS.

GENERAL NOTES (APPLIES TO ALL SHEETS)

1. COORDINATE ALL POWER REQUIREMENTS WITH ELECTRICAL.
2. COORDINATE ALL DATA REQUIREMENTS WITH TELECOM.
3. COORDINATE ALL FURNITURE CUTOUTS WITH FURNITURE PROVIDER.
4. FINAL HEIGHT AND MOUNTING LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTUAL ELEVATIONS.
5. FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF EQUIPMENT.
6. PROVIDE SEPERATE RACEWAY PATH FOR MICROPHONE LEVEL AUDIO SIGNALS.
7. ROUTING OF CONDUIT SHOWN FOR DESIGN INTENT ONLY. COORDINATE EXACT ROUTE BASED ON FIELD CONDITIONS.
8. REAM AND BUSH ALL CONDUIT ENDS.
9. ALL RACEWAY TO BE PROVIDED UNDER THE ELECTRICAL CONTRACT UON. ALL EMPTY CONDUITS SHALL BE INSTALLED WITH DRAG WIRES.
10. PROVIDE BLANK PLATES FOR BOXES LEFT OR DENOTED AS "BLANK" FOR FUTURE INSTALLATIONS.
11. ALL UTP CABLING SHALL BE PLENUM RATED, UON.
12. CEILING SPEAKERS ARE SHOWN FOR ZONING AND CONDUIT SIZING AND ROUTING ONLY. REFERENCE ARCHITECTURAL RCP FOR EXACT CEILING SPEAKER LOCATIONS.
13. USE VELCRO STRAPS FOR ALL CABLE MANAGEMENT APPLICATIONS. TIE WRAPS ARE PROHIBITED.
14. ALL CONDUITS TO NEAREST ACCESSIBLE CEILING SHALL BE STUBBED UP INTO THE SAME ROOM UON ON THE PLANS.
15. ALL CONDUITS SHOULD OPEN TO NEAREST CABLETRAY PATHWAY CONNECTING BACK TO MAIN AV RACK ROOM FOR ALL AV CONNECTIVITY.

ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
ARF	ABOVE RAISED FLOOR
AFC	ABOVE FINISHED CEILING
BFC	BELOW FINISHED CEILING
ARCH	ARCHITECT/ARCHITECTUAL
BEL	BELOW
C	CONDUIT
CCA	CEILING CONNECTOR ASSEMBLY
CLG	CEILING
COL	COLUMN
CONN	CONNECT/CONNECTION
CONT	CONTINUATION/CONTINOUS
DN	DOWN
EC	EMPTY CONDUIT
FL	FLOOR
FBO	FINISHED BY OTHER
FCA	FLOOR CONNECTOR ASSEMBLY
LAN	LOCAL AREA NETWORK
N/A	NOT APPLICABLE
N/I	NOT ISSUED
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OFE	OWNER FURNISHED EQUIPMENT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
SCRN	PROJECTOR SCREEN
SPEC	SPECIFICATIONS
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
WCA	WALL CONNECTOR ASSEMBLY
NC	NORMALLY CLOSED CONTACT CLOSURE
NO	NORMALLY OPEN CONTACT CLOSURE
CC	CENTER CONTACT

LOW VOLTAGE SYMBOLS LEGEND

LADDER TYPE TELECOMMUNICATIONS RUNWAY (SIZE AS NOTED ON ENLARGED PLANS)

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Δ	DATE	DESCRIPTION

SHEET NAME:
AV LEGEND AND NOTES

DATE:
CURRENT: 2020.11.20
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SHEET:
AV-000

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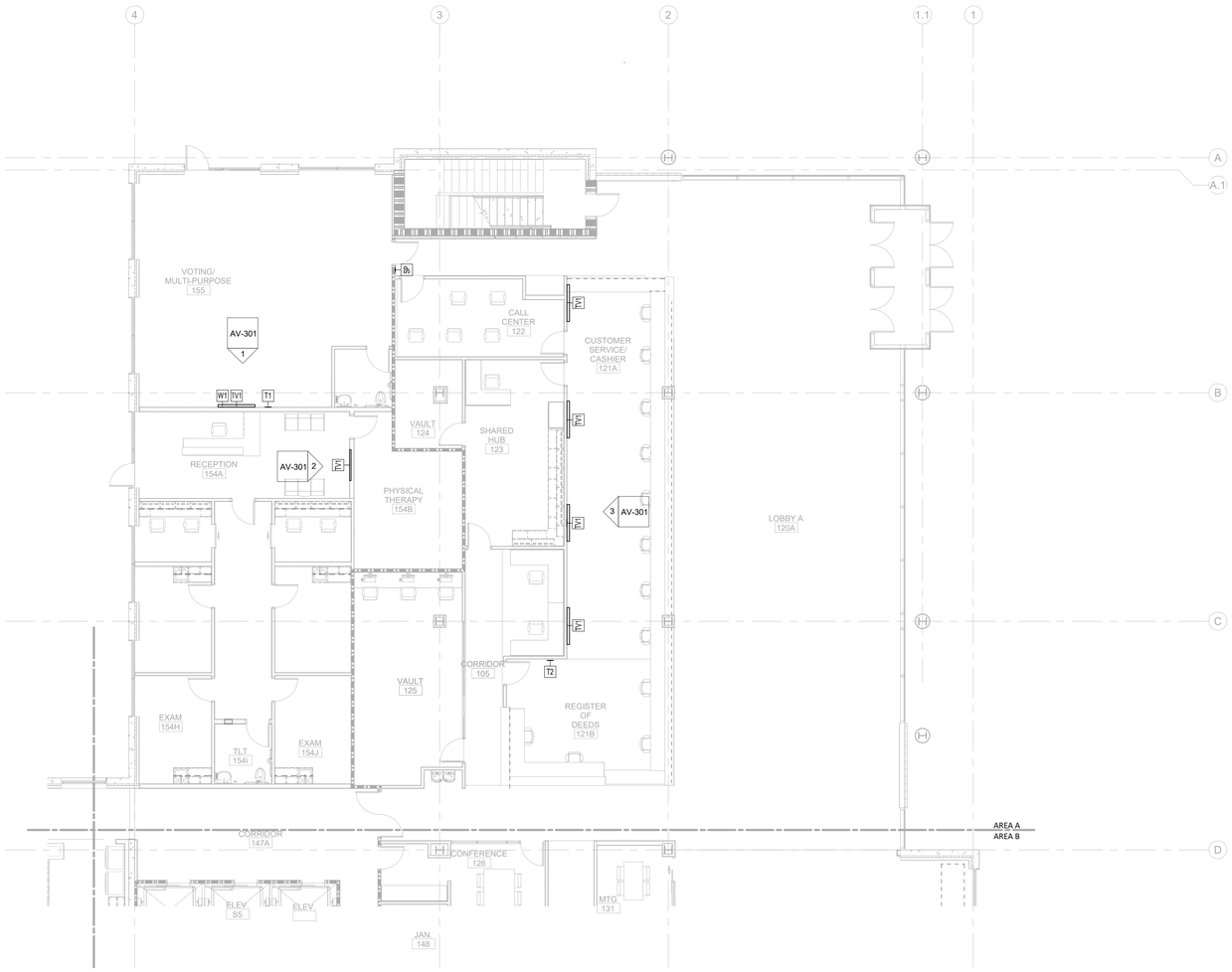

NOTE: AV LAN PATHWAYS TO AV ROOM 151 FOR ALL DISPLAYS ON THIS SHEET.

0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 / AV-101A — AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A — 1/8" = 1'-0"

11/19/2020 2:26:28 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

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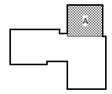

SHEET NAME:
AUDIO VISUAL FLOOR PLAN - LEVEL 1 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-101A

TI GMP SET

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0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 AV-101B **AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B** 1/8" = 1'-0"

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Δ	DATE	DESCRIPTION

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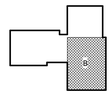

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AUDIO VISUAL FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-101B

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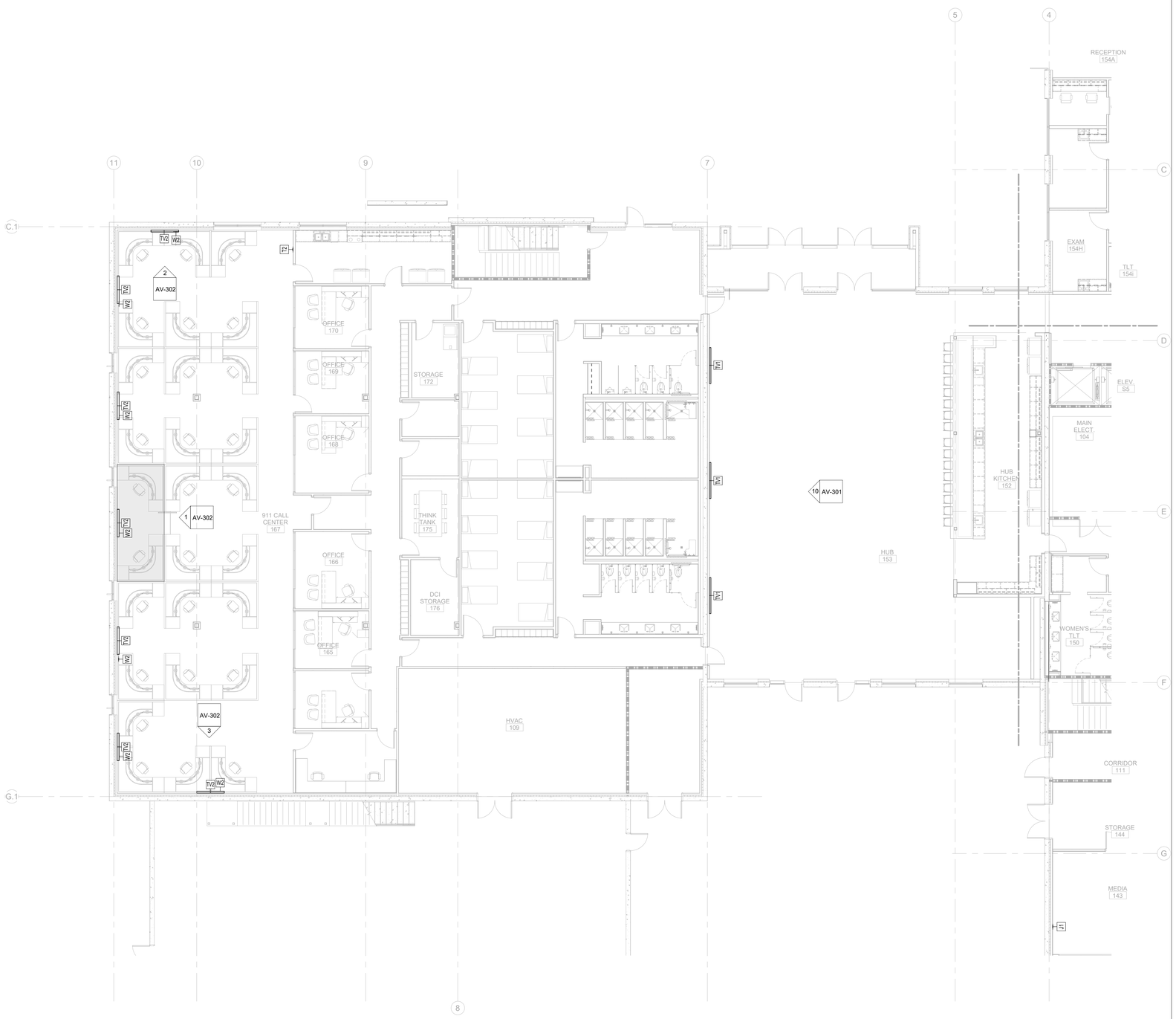

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 AV-101C	AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C	1/8" = 1'-0"

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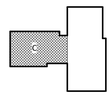

SHEET NAME:
AUDIO VISUAL FLOOR PLAN - LEVEL 1 - AREA C

DATE:
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TI GMP SET

SHEET:
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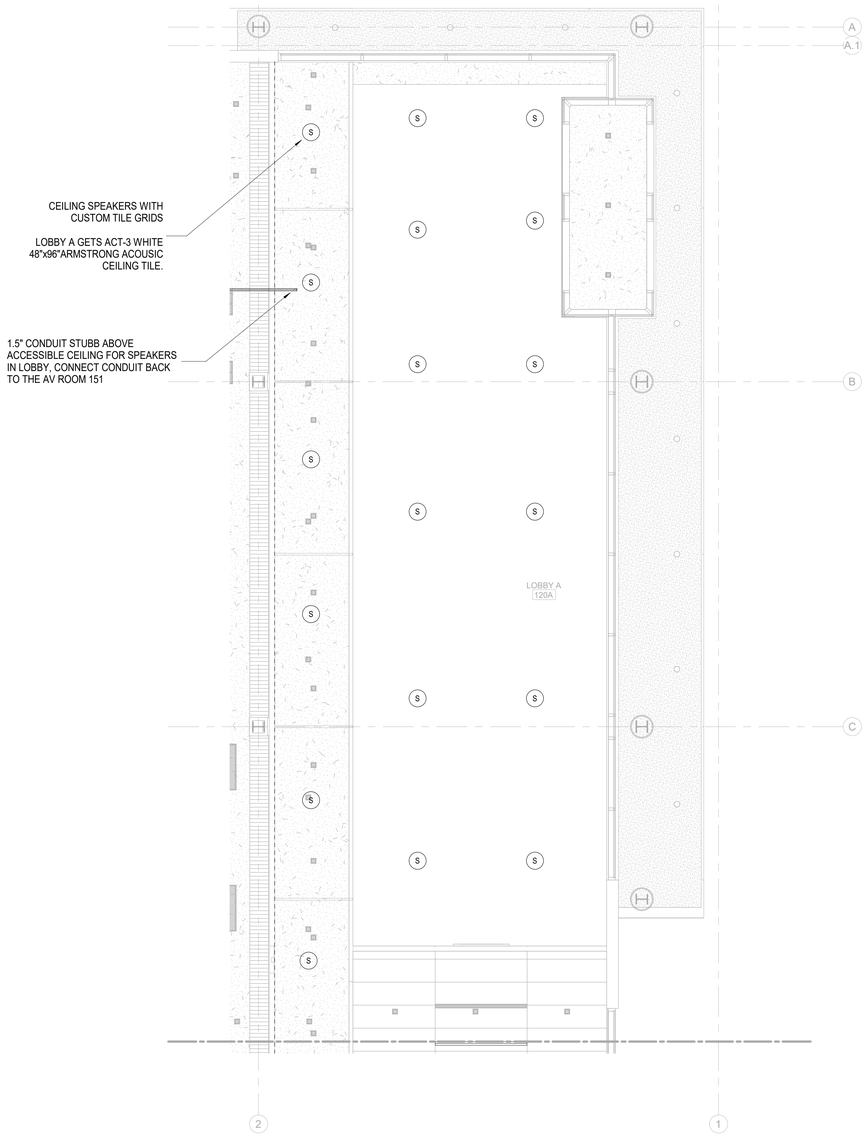
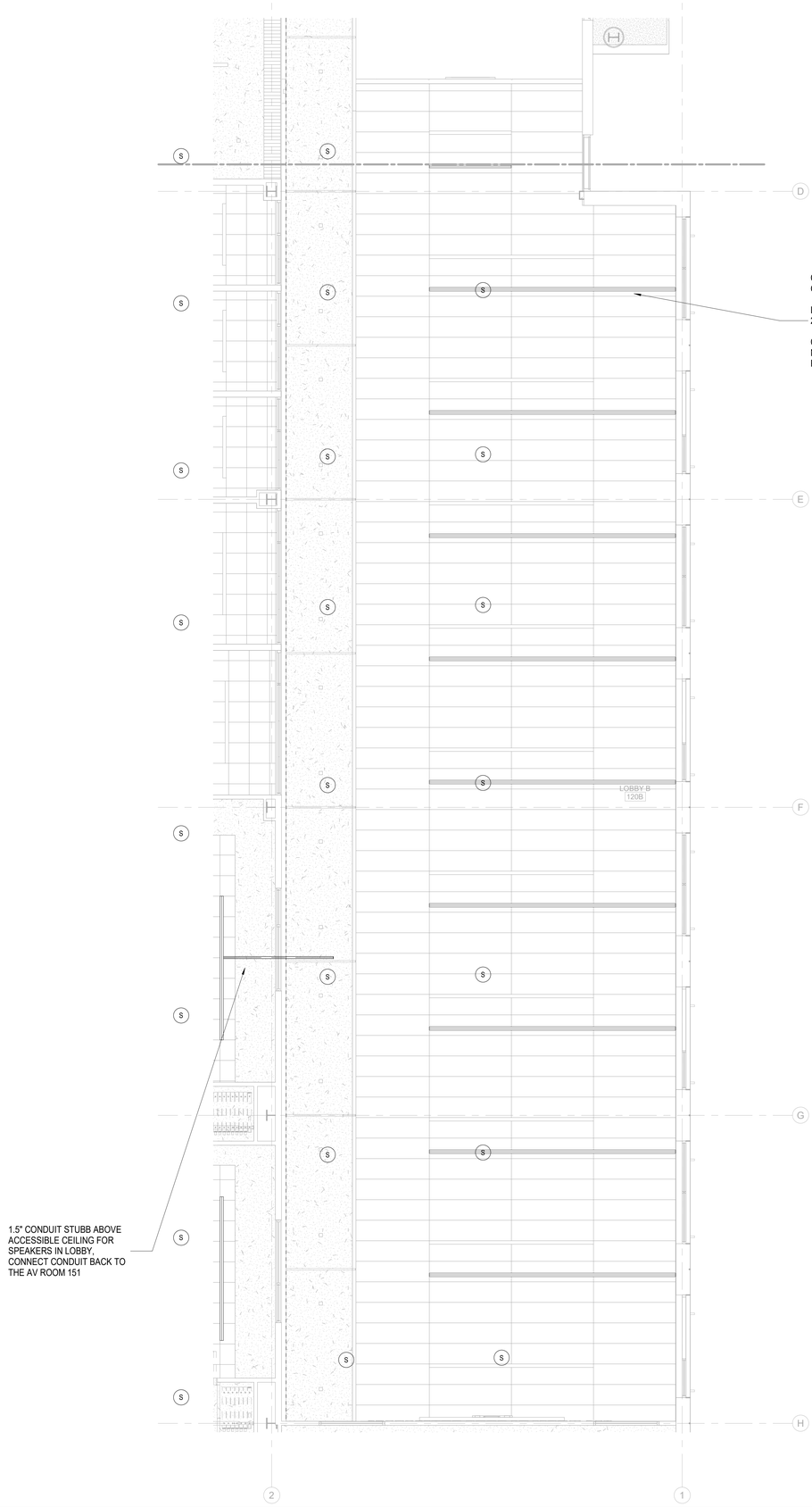


1 AV-101D **AUDIO VISUAL LEVEL 1 LOBBY A 120A RCP DETAILS** 3/16" = 1'-0"



2 AV-101D **AUDIO VISUAL LEVEL 1 LOBBY B 120B RCP DETAILS** 3/16" = 1'-0"

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SHEET NAME:
AUDIO VISUAL RCP LEVEL 1 - LOBBY

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-101D

TI GMP SET



1 AV-102A	AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A	1/8" = 1'-0"

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SHEET NAME:
AUDIO VISUAL FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
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SHEET:
AV-102A

TI GMP SET

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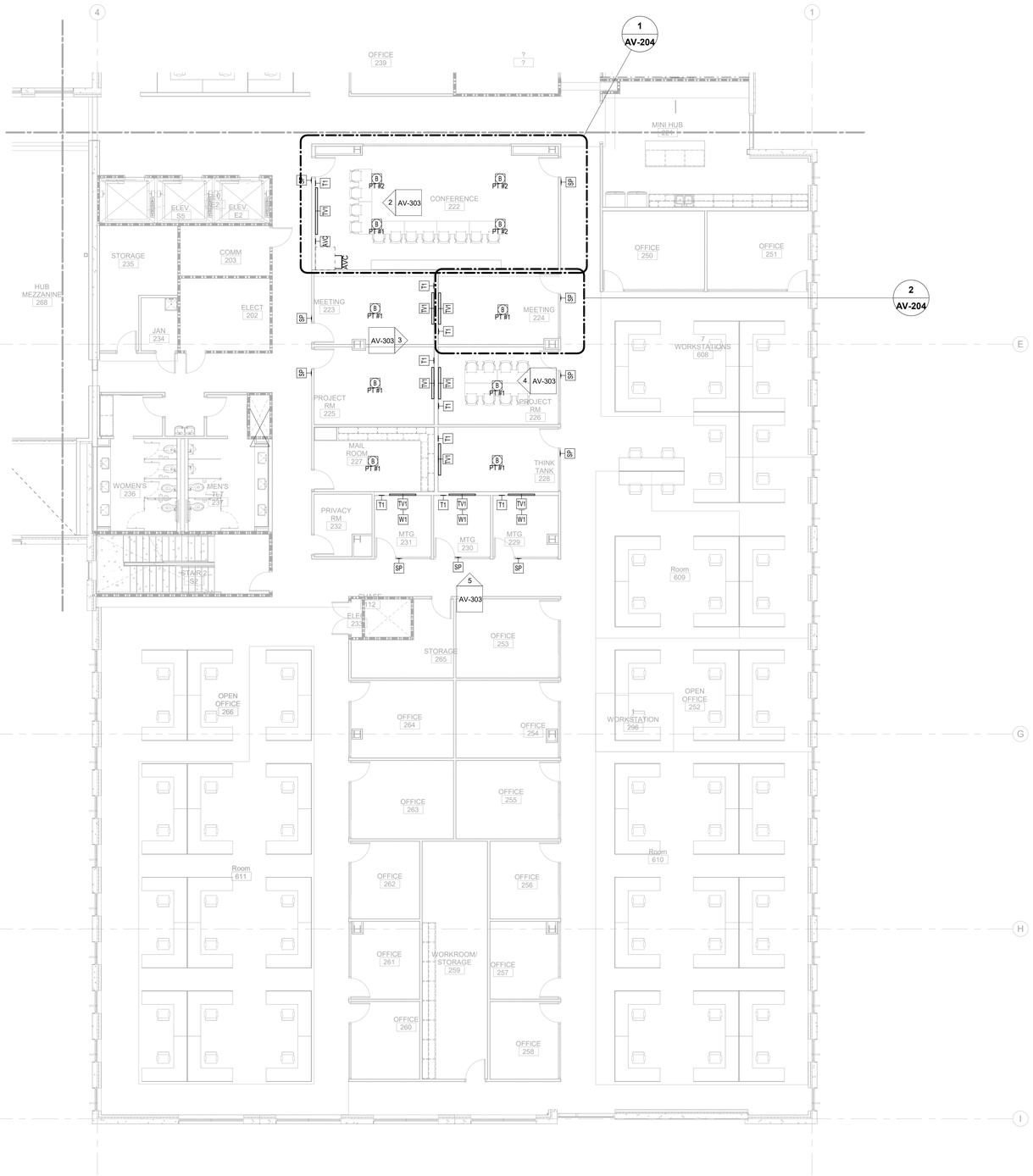

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / AV-102B	AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B	1/8" = 1'-0"

11/19/2020 2:26:57 PM

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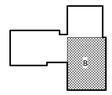
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
AUDIO VISUAL FLOOR PLAN - LEVEL 2 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-102B

TI GMP SET

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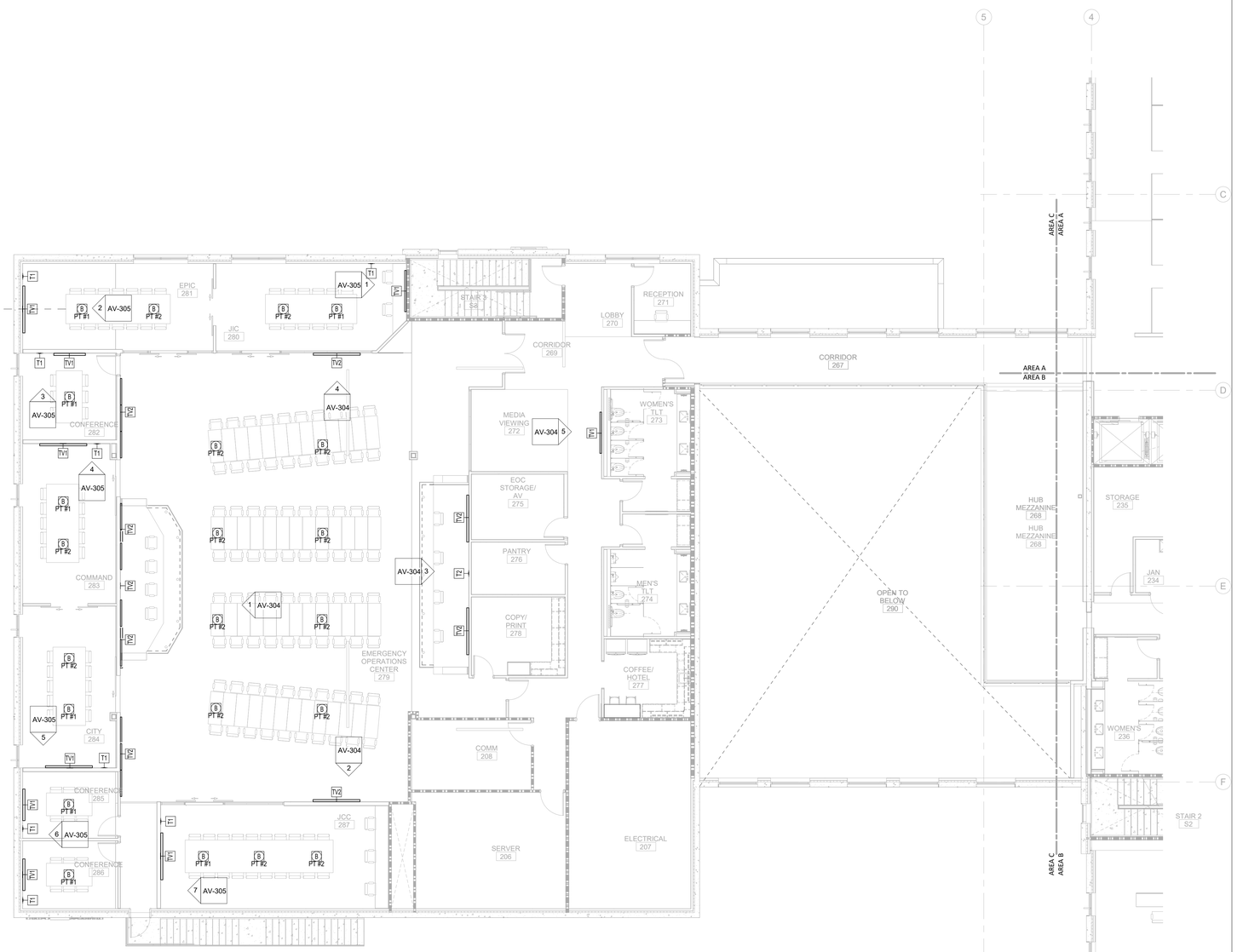
A B C D E



0 4' 8' 16'

TRUE NORTH | PROJECT NORTH

1 AV-102C **AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** 1/8" = 1'-0"

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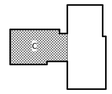
KEY PLAN:



SHEET NAME:
AUDIO VISUAL FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-102C

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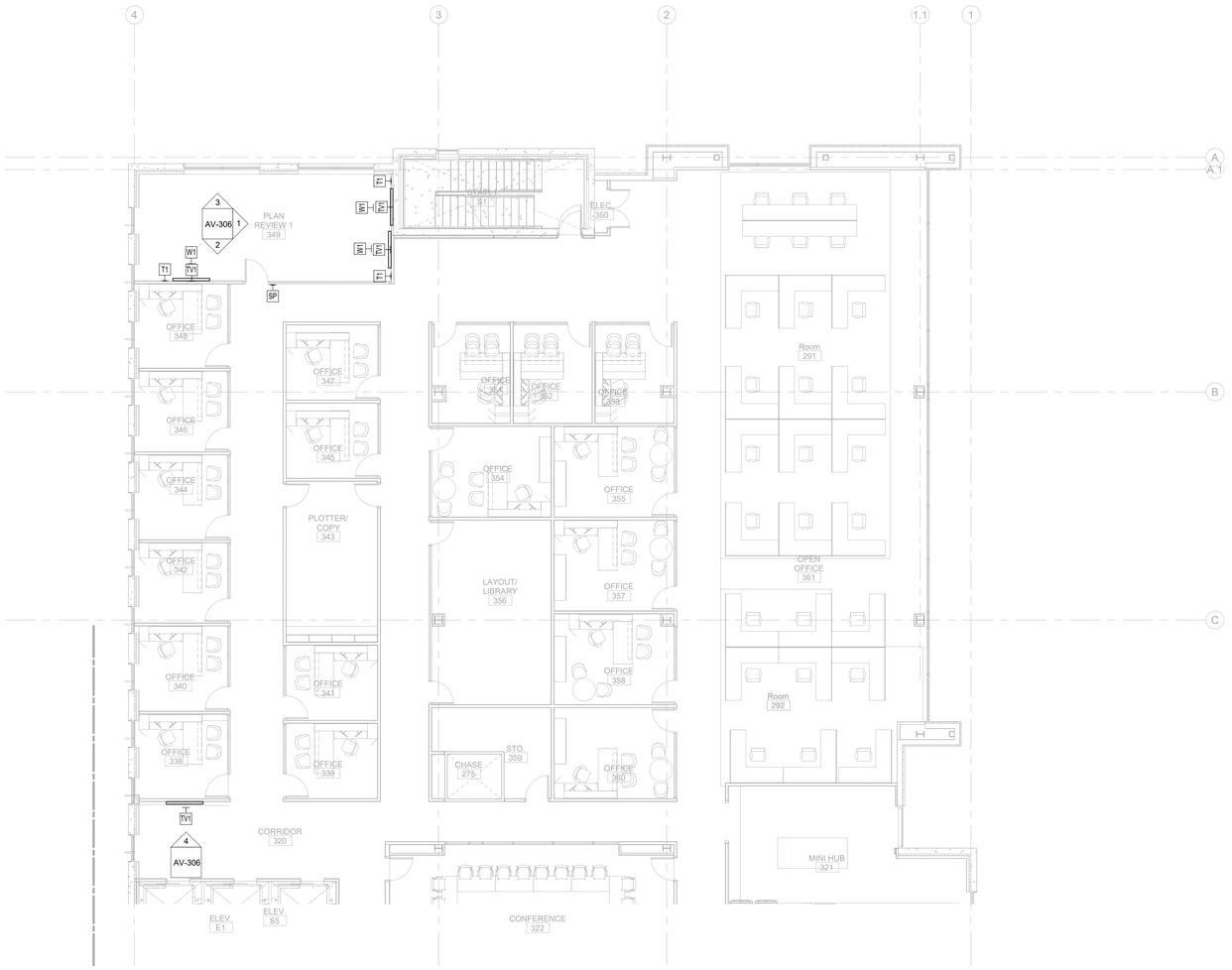

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

11/19/2020 2:27:05 PM

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 AV-103A	AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A	1/8" = 1'-0"

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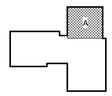
KEY PLAN:



SHEET NAME:
AUDIO VISUAL FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-103A

TI GMP SET

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0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 AV-103B	AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B	1/8" = 1'-0"

11/19/2020 2:27:11 PM

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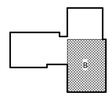
Δ	DATE	DESCRIPTION

KEY PLAN:



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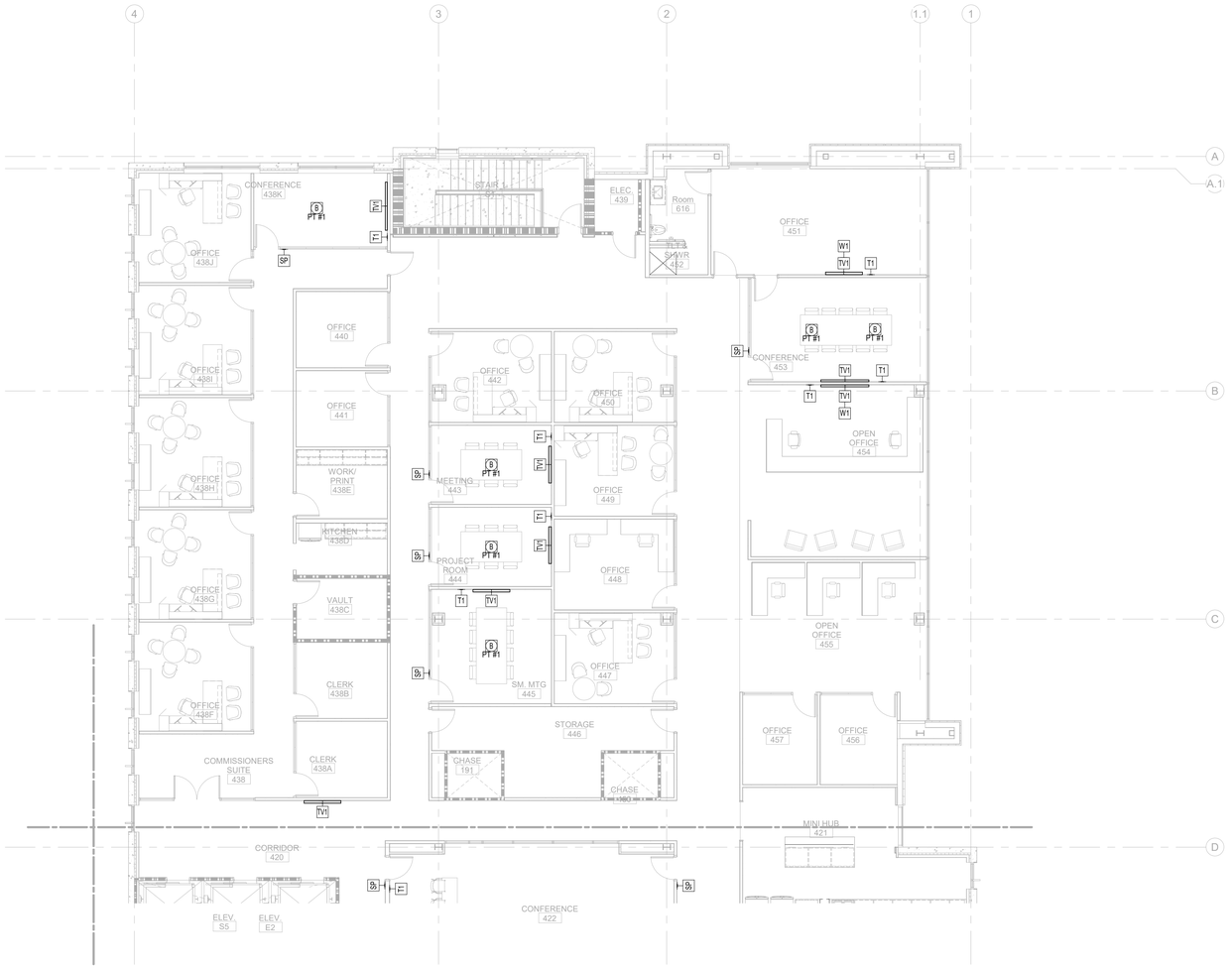
SHEET NAME:
AUDIO VISUAL FLOOR PLAN - LEVEL 3 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-103B

TI GMP SET



0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 AV-104A **AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A** 1/8" = 1'-0"

11/19/2020 2:27:15 PM

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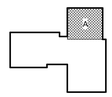
KEY PLAN:



SHEET NAME:
AUDIO VISUAL FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-104A

TI GMP SET

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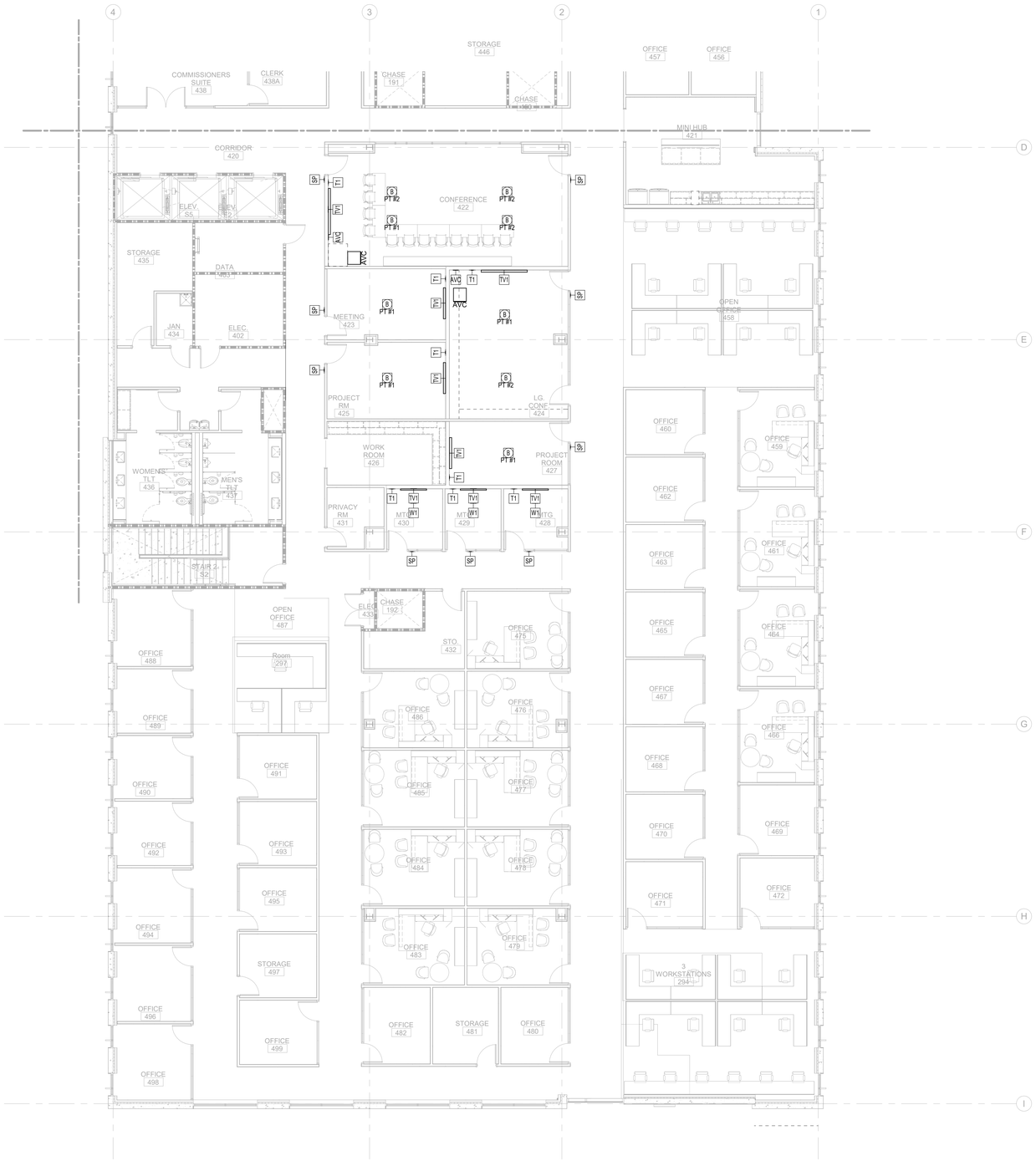

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 AV-104B	AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B	1/8" = 1'-0"

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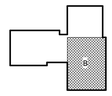
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



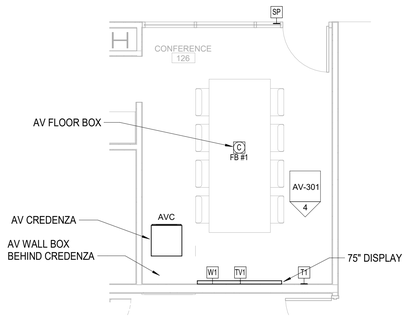
SHEET NAME:
AUDIO VISUAL FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

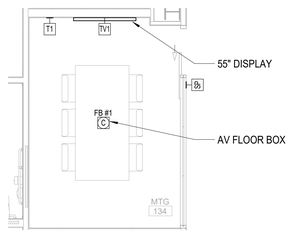
SHEET:
AV-104B

TI GMP SET

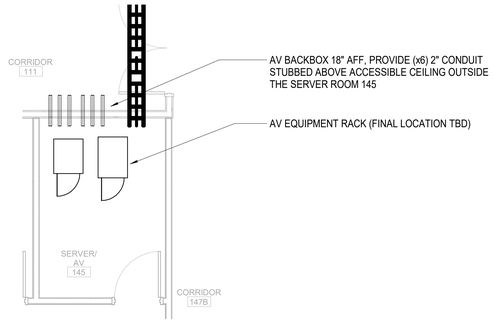
Newcomb & Boyd
CONSULTANTS AND ENGINEERS
Consulting Engineering Group
5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312



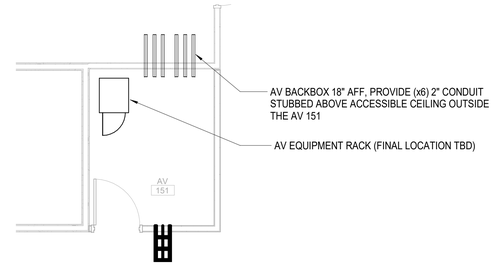
1 **AV CONFERENCE ROOM 126 - ENLARGED PLAN**
AV-201 1/4" = 1'-0"



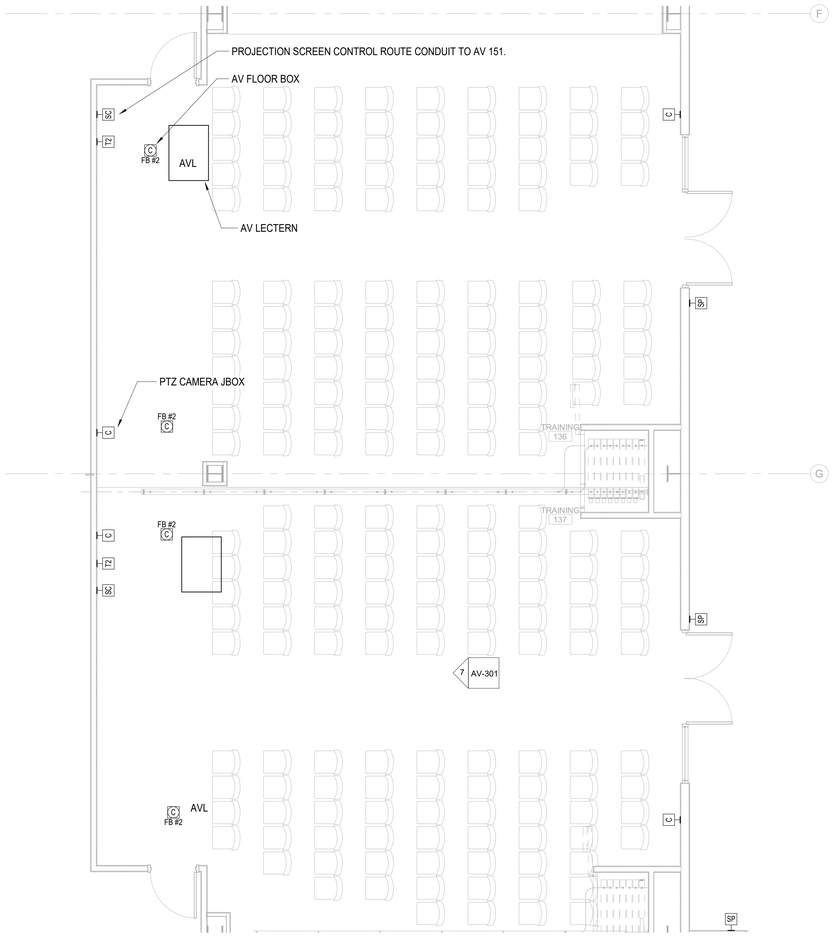
2 **AV TYPICAL LEVEL 1 MEETING ROOM - ENLARGED PLAN**
AV-201 1/4" = 1'-0"



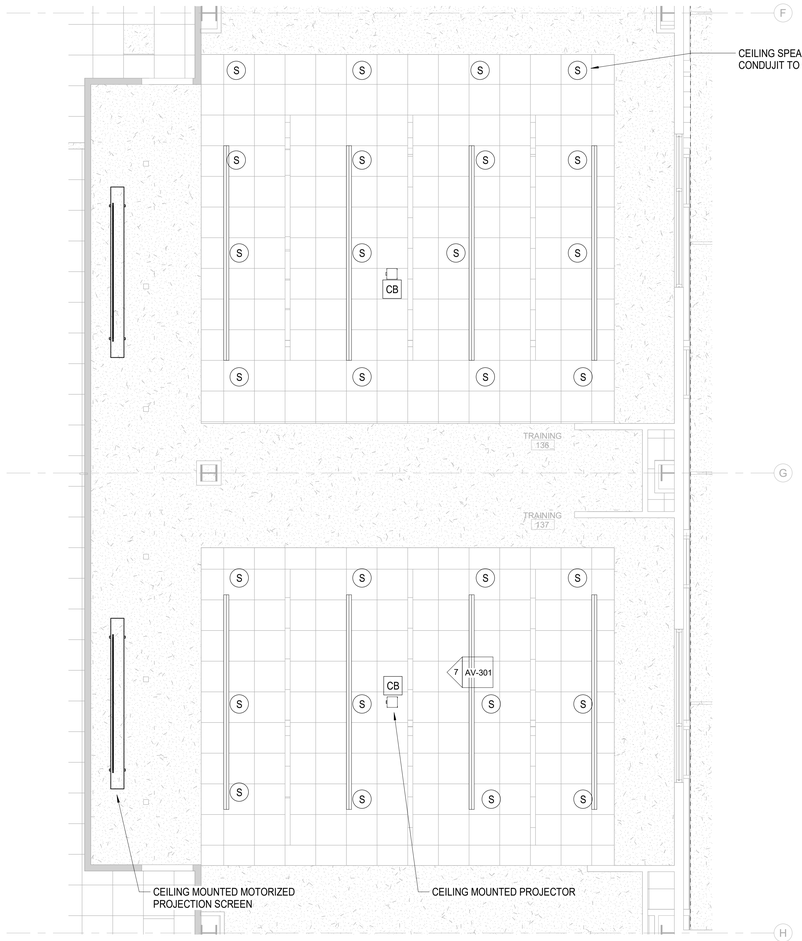
3 **AV SERVER RM 145 - ENLARGED PLAN**
AV-201 1/4" = 1'-0"



4 **AV ROOM 151 - ENLARGED PLAN**
AV-201 1/4" = 1'-0"



5 **AV TRAINING ROOM(S) 137/137 - ENLARGED PLAN**
AV-201 1/4" = 1'-0"



6 **AV TRAINING ROOM(S) 137/137 - ENLARGED RCP PLAN**
AV-201 1/4" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SIZE

11/19/2020 2:27:25 PM

CAPE FEAR FD STONEWATER

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NHC Goverment Center 7702-190810

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LS3P PROJECT: 7702-190810

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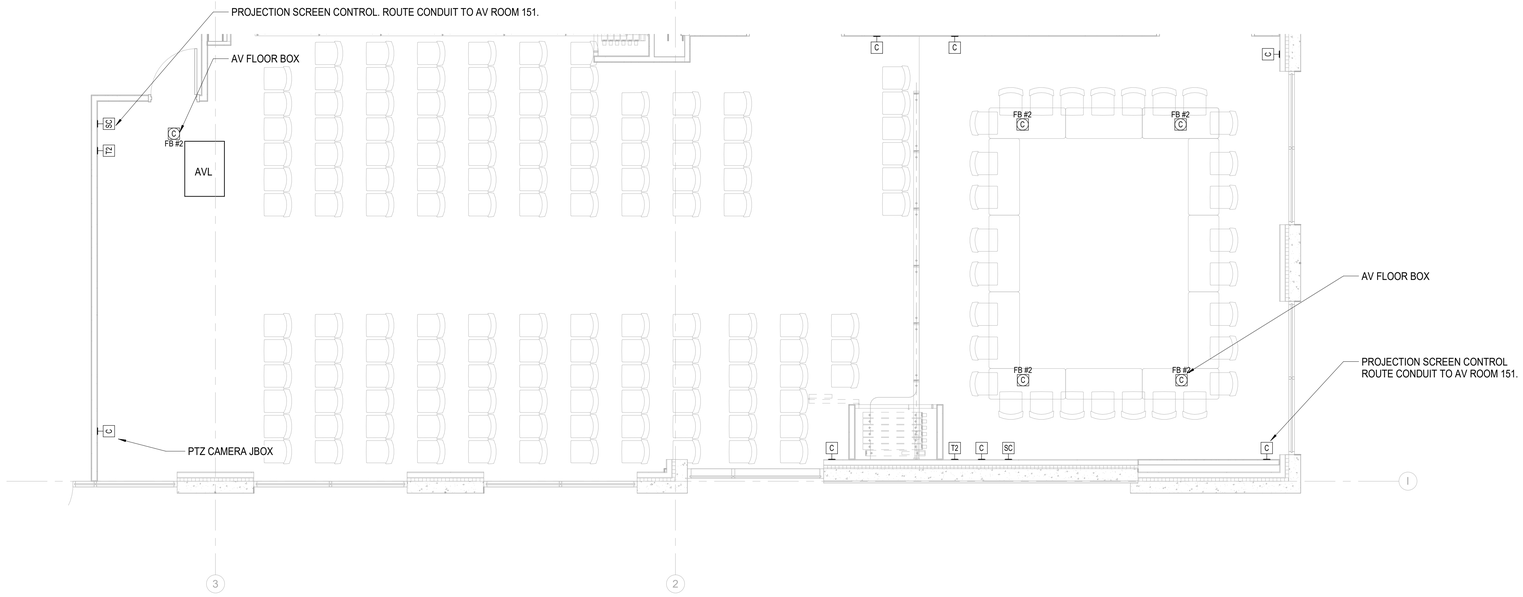
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
AUDIO VISUAL
ENLARGED PLANS

DATE:
CURRENT: 2020.11.20
TI GMP SET

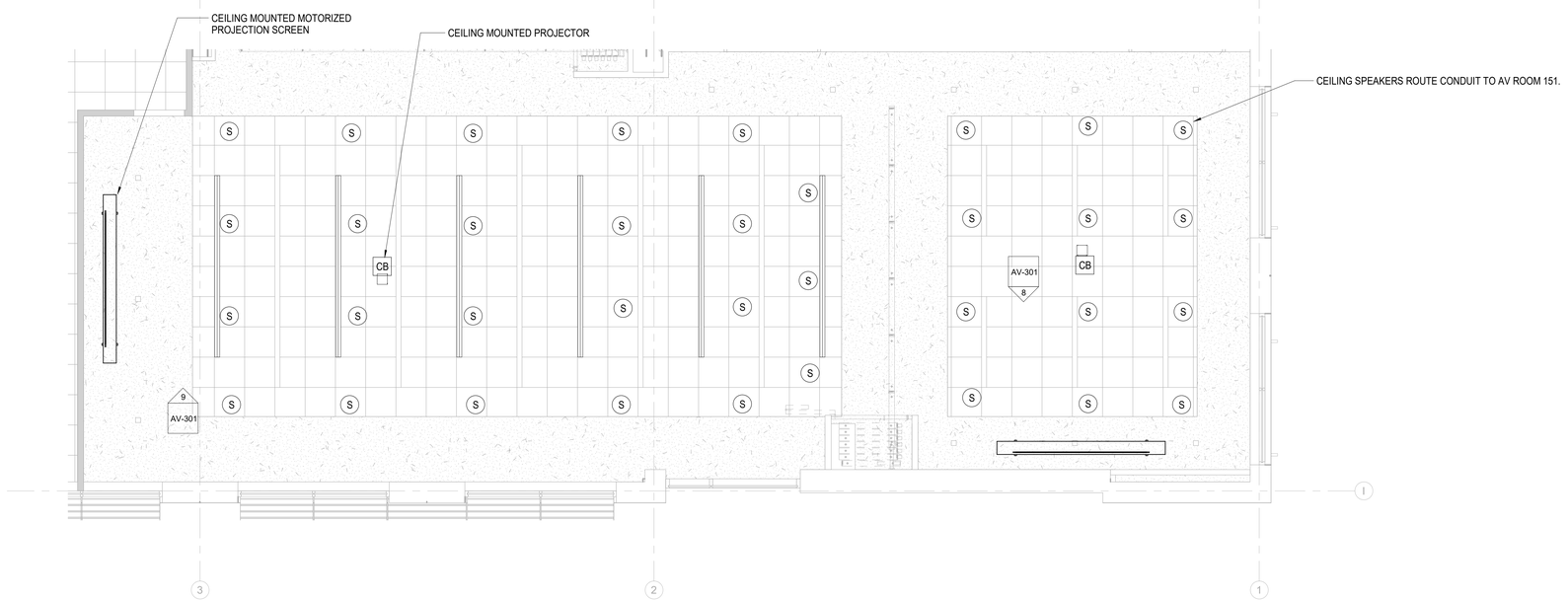
SHEET:
AV-201

TI GMP SET



1 AV CONFERENCE ROOM(S) 138/139 - ENLARGED PLANS

AV-202 1/4" = 1'-0"



2 AV CONFERENCE ROOM(S) 138/139 - ENLARGED RCP PLANS

AV-202 1/4" = 1'-0"

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Firm License No. F-0312

SHEET NAME:
AUDIO VISUAL
ENLARGED PLANS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-202

TI GMP SET

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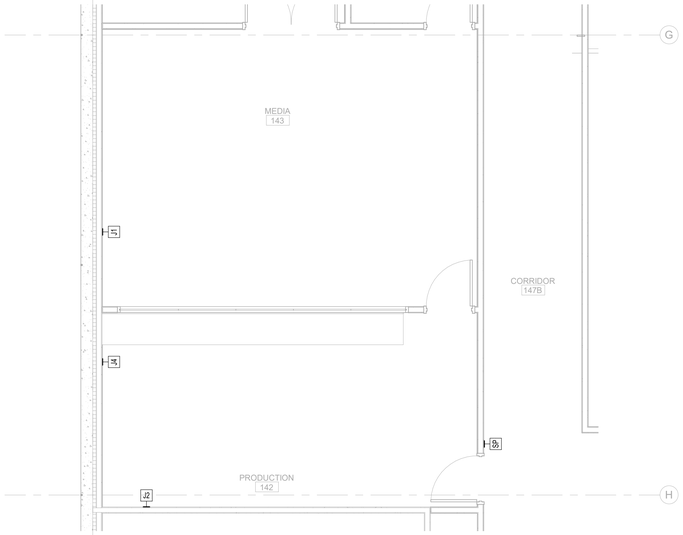
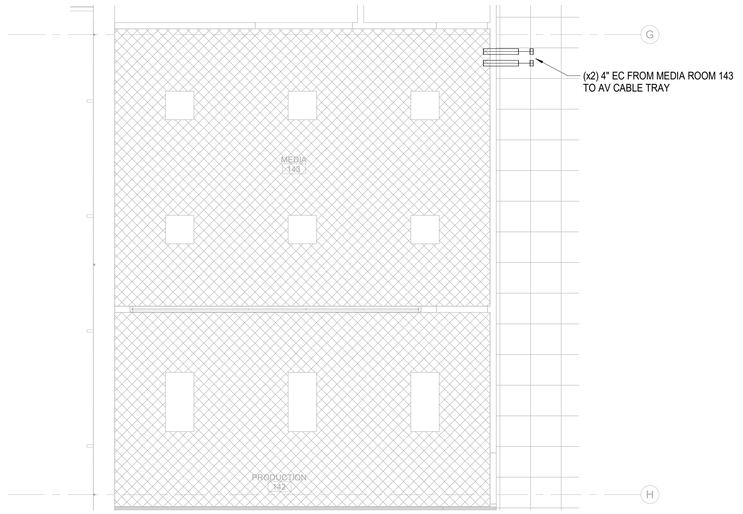
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



1 **MEDIA & PRODUCTION 142/143 - ENLARGED PLAN**
AV-203 1/4" = 1'-0"



2 **MEDIA & PRODUCTION 142/143 - ENLARGED RCP PLAN**
AV-203 1/4" = 1'-0"

NOTE: REFER TO T-101A & T-101B DRAWINGS FOR CABLE TRAY DETAILS.

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SHEET NAME:
AUDIO VISUAL
ENLARGED PLANS

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
AV-203

TI GMP SET

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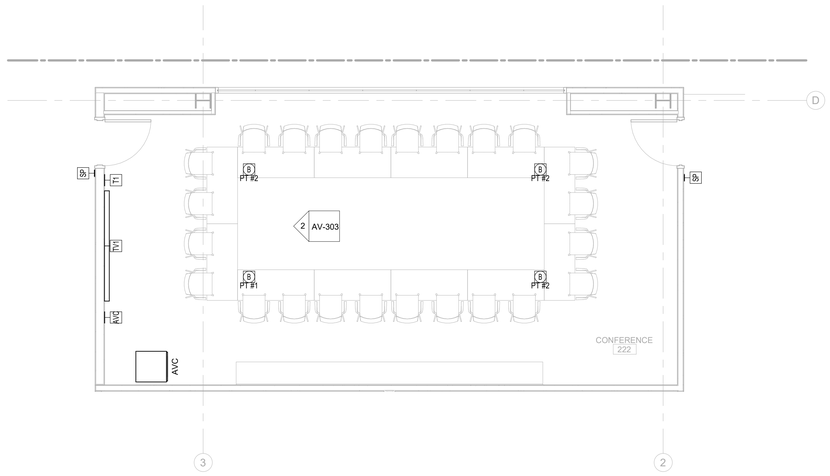
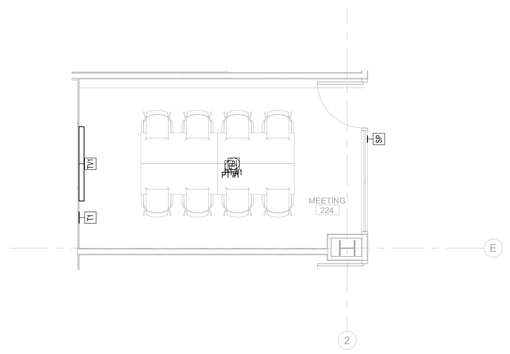


1 **AV CONFERENCE ROOM 222 - ENLARGED PLANS**
AV-204 1/4" = 1'-0"



2 **AV TYPICAL LEVEL 2 MEETING SPACE - ENLARGED PLANS**
AV-204 1/4" = 1'-0"

11/19/2020 2:27:34 PM

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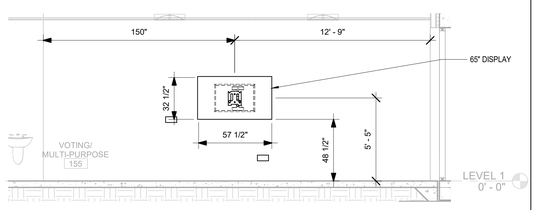
Δ	DATE	DESCRIPTION

SHEET NAME:
AUDIO VISUAL
ENLARGED PLANS

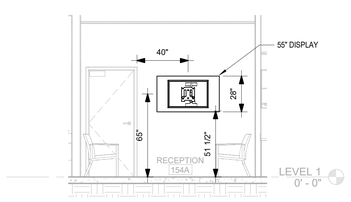
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-204

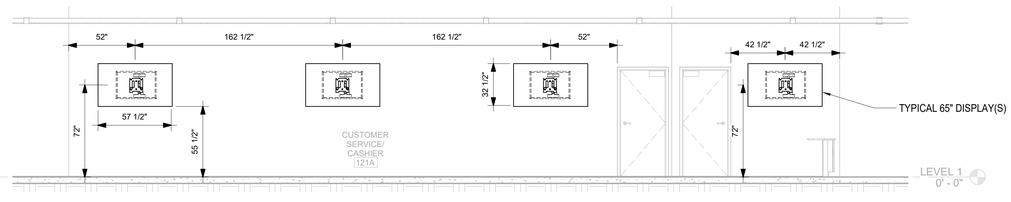
TI GMP SET



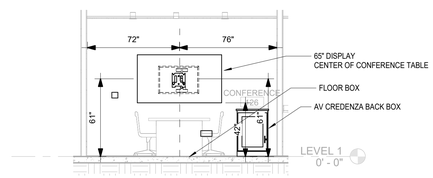
1 AV-301	AV ELEVATION DETAILS - VOTING MULTIPURPOSE 155	1/4" = 1'-0"



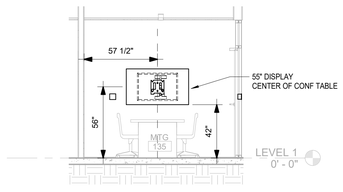
2 AV-301	AV ELEVATION DETAILS - RECEPTION 154A	1/4" = 1'-0"



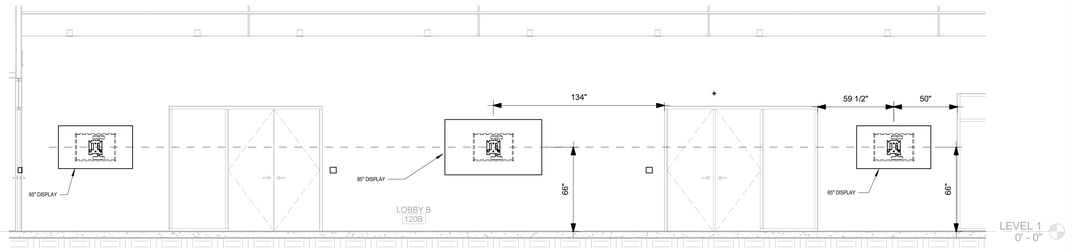
3 AV-301	AV ELEVATION DETAILS - CUSTOMER SERVICE / CASHIER 121	1/4" = 1'-0"



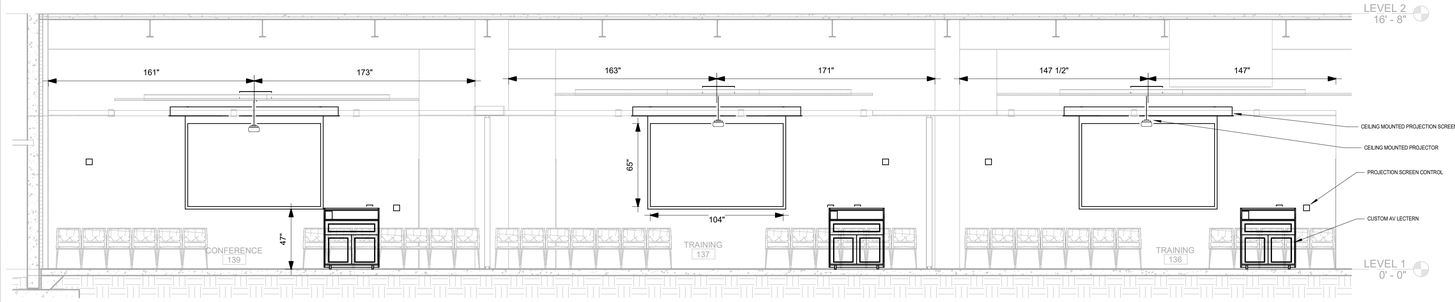
4 AV-301	AV ELEVATION DETAILS - CONFERENCE 126	1/4" = 1'-0"



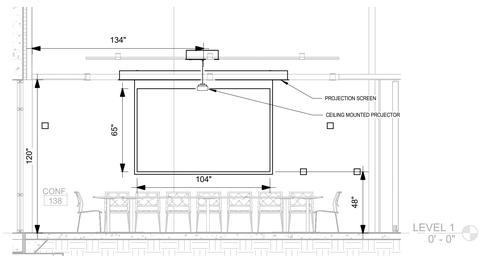
5 AV-301	AV ELEVATION DETAILS - MTG 135	1/4" = 1'-0"



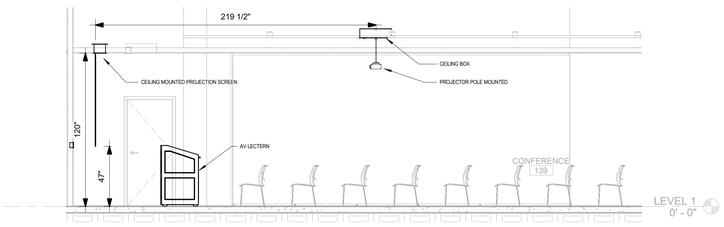
6 AV-301	AV ELEVATION DETAILS - LOBBY B 120B	1/4" = 1'-0"



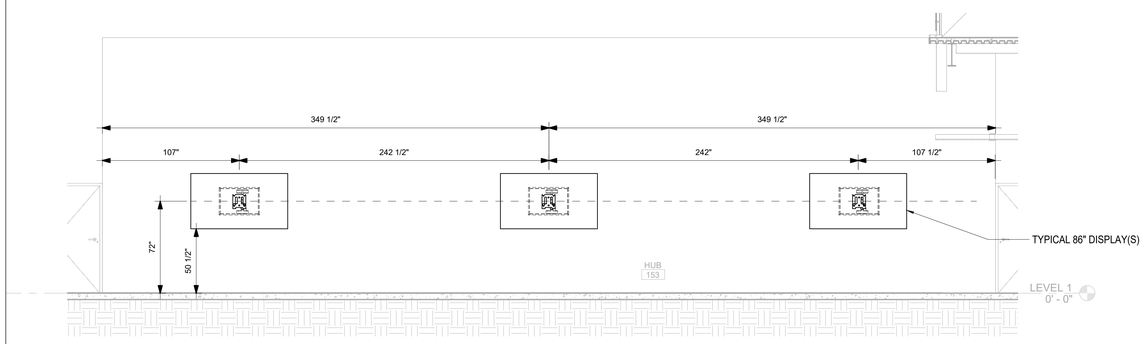
7 AV-301	AV ELEVATION DETAILS - PROJECTION SCREEN - PROJECTOR	1/4" = 1'-0"



8 AV-301	AV ELEVATION DETAILS - CONF 138	1/4" = 1'-0"



9 AV-301	AV ELEVATION DETAILS - CONFERENCE ROOM SIDE VIEW	1/4" = 1'-0"



10 AV-301	AV ELEVATION DETAILS - HUB 153	1/4" = 1'-0"

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LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
AUDIO VISUAL
ELEVATION DETAILS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-301

TI GMP SET

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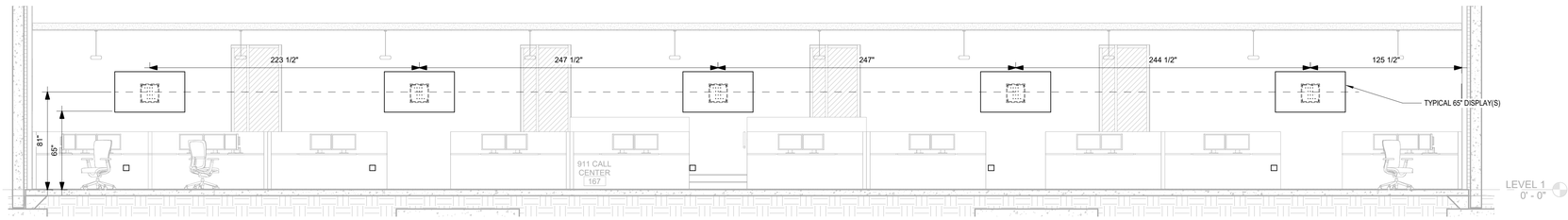
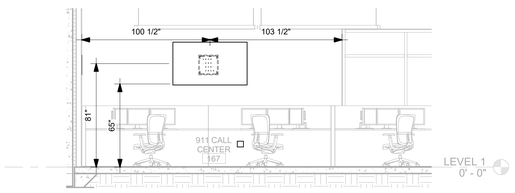
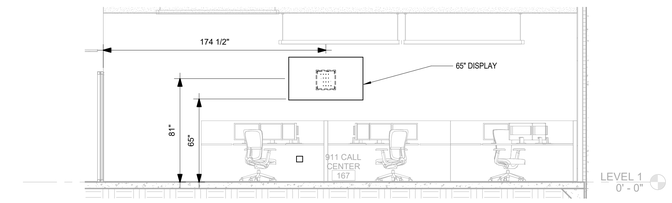


1 AV-302	AV ELEVATION DETAILS - 911 CALL CENTER 167 - WEST WALL	1/4" = 1'-0"



2 AV-302	AV ELEVATION DETAILS - 911 CALL CENTER 167 - NORTH WALL	1/4" = 1'-0"



3 AV-302	AV ELEVATION DETAILS - 911 CALL CENTER 167 - SOUTH WALL	1/4" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

11/19/2020 2:27:46 PM

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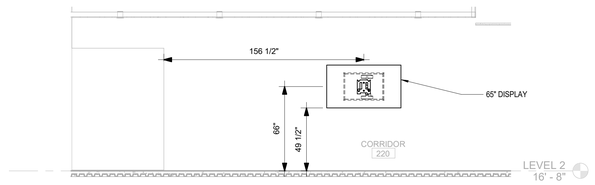
SHEET NAME:
AUDIO VISUAL
ELEVATION DETAILS

DATE:
CURRENT: 2020.11.20
TI GMP SET

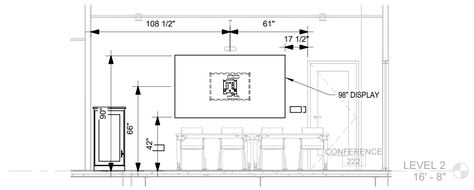
SHEET:
AV-302

TI GMP SET

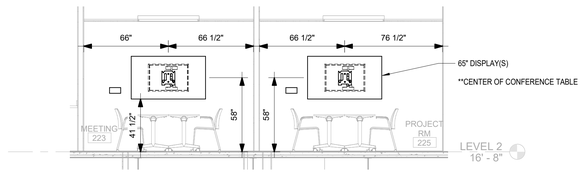
THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE FULL SCALE SHOWN ON THIS SHEET



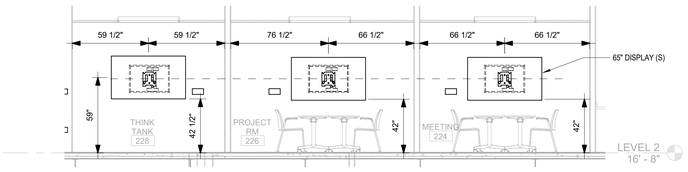
1 AV-303	AV ELEVATION DETAILS - CORRIDOR 220	1/4" = 1'-0"



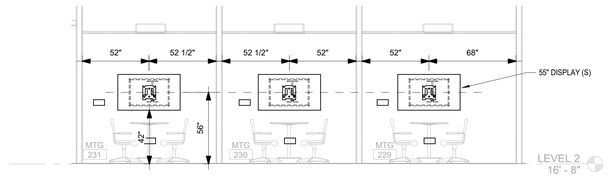
2 AV-303	AV ELEVATION DETAILS - CONFERENCE 222	1/4" = 1'-0"



3 AV-303	AV ELEVATION DETAILS - MEETING / PROJECT RMS	1/4" = 1'-0"



4 AV-303	AV ELEVATION DETAILS - MEETING ROOM(S)	1/4" = 1'-0"



5 AV-303	AV ELEVATION DETAILS - MTG ROOM (S)	1/4" = 1'-0"

11/19/2020 2:27:54 PM

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LS3P PROJECT: 7702-190810

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SHEET NAME:
AUDIO VISUAL
ELEVATION DETAILS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-303

TI GMP SET

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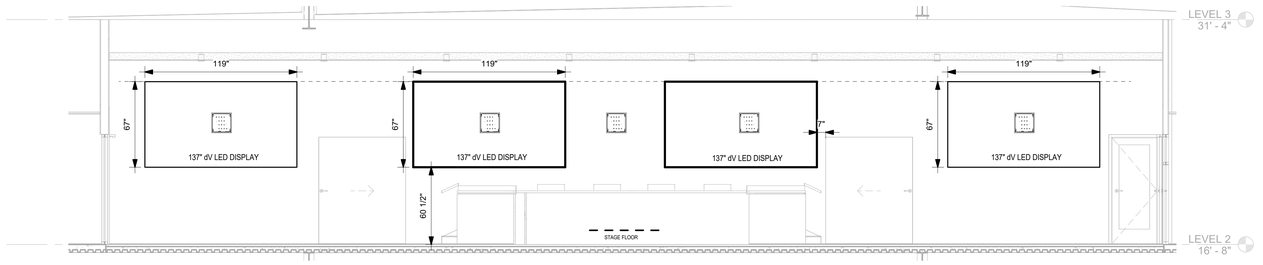
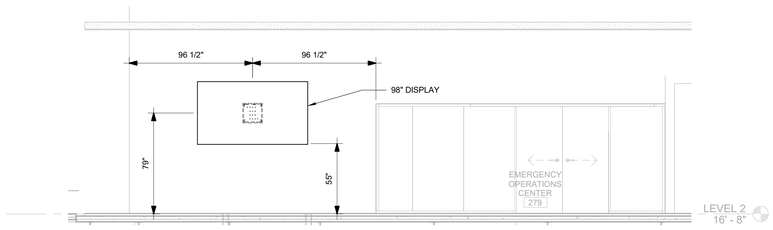


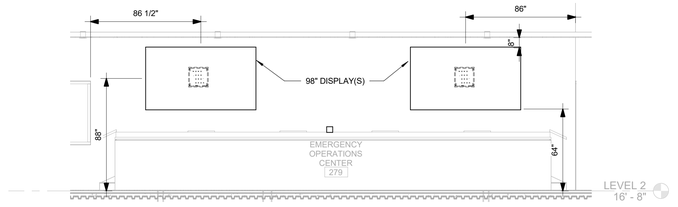
1 / AV-304	EOC 279 - MAIN DISPLAY WALL	1/4" = 1'-0"

NOTES:

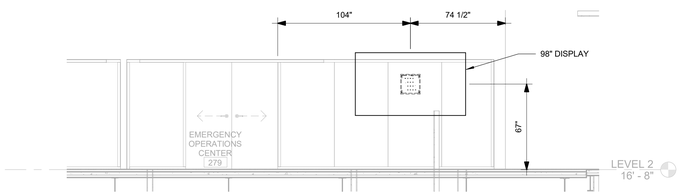
1. RESOLUTION OF THE DISPLAY(S) :
   . COMBINATION OF 1080P / UHD 4K DISPLAYS.
2. FRONT (WEST) WALL SHOWN:
   . (x4) 137" dV LED DISPLAYS 1.5mm PIXEL PITCH (1080P).
   . EACH 137" dv LED DISPLAYS WEIGHS 500 lbs NET.
   . EACH 137" DISPLAYS DRAWS 3135 WATTS POWER.
3. INCLUDED BUT NOT SHOWN -
   . (x1) 98" DISPLAY ON NORTH WALL (1080P / 4K).
   . (x1) 98" DISPLAY ON SOUTH WALL (1080P / 4K).
   . (x2) 98" DISPLAY ON EAST WALL (1080P / 4K).
   . (x1) IP VIDEO SWITCHING EQUIPMENT.
4. RECOMMENDED MINIMUM NEAREST VIEWER FROM DISPLAY IN FEET / METERS :
   (GREATER THAN) > 10' OR MIN 3 METER (OPTIMAL VIEWING)



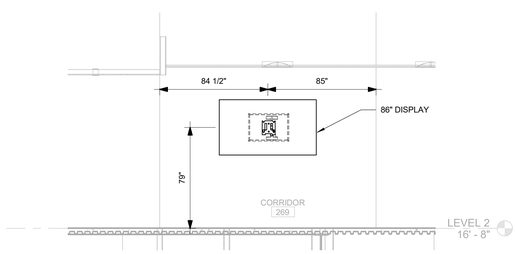
2 / AV-304	EOC 279 - SIDE DISPLAY WALL (SOUTH WALL)	1/4" = 1'-0"



3 / AV-304	EOC 279 - WALL ELEVATION DETAILS (EAST WALL)	1/4" = 1'-0"



4 / AV-304	EOC 279 - WALL ELEVATION DETAILS (NORTH WALL)	1/4" = 1'-0"



5 / AV-304	AV ELEVATION DETAILS - CORRIDOR 269	1/4" = 1'-0"

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
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LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
AUDIO VISUAL ELEVATION DETAILS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-304

TI GMP SET

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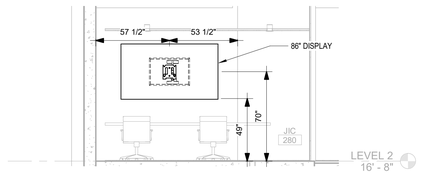
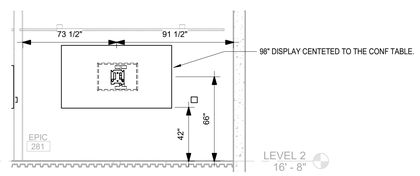
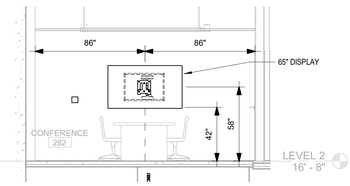


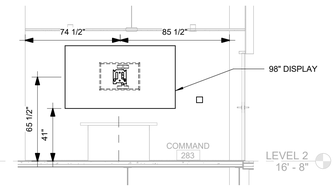
1	AV-305	AV ELEVATION DETAILS - JIC 280	1/4" = 1'-0"



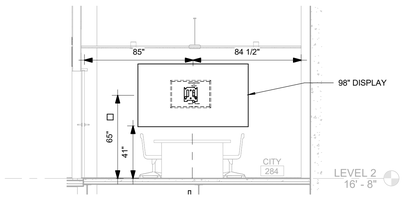
2	AV-305	AV ELEVATION DETAILS - EPIC 281	1/4" = 1'-0"



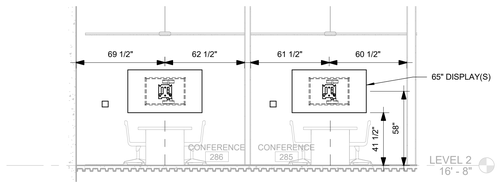
3	AV-305	AV ELEVATION DETAILS - CONFERENCE ROOM 282	1/4" = 1'-0"



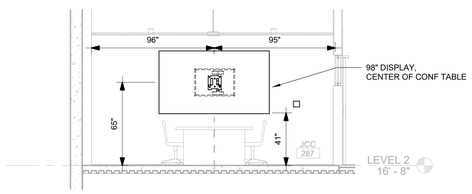
4	AV-305	AV ELEVATION DETAILS - COMMAND 283	1/4" = 1'-0"



5	AV-305	AV ELEVATION DETAILS - CITY 284	1/4" = 1'-0"



6	AV-305	AV ELEVATION DETAILS - CONFERENCE ROOM 285 / 286	1/4" = 1'-0"



7	AV-305	AV ELEVATION DETAILS - JCC 287	1/4" = 1'-0"

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Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
AUDIO VISUAL
ELEVATION DETAILS

DATE:
CURRENT: **2020.11.20**
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AV-305

TI GMP SET

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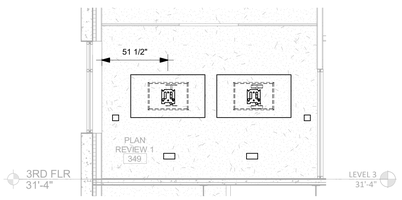
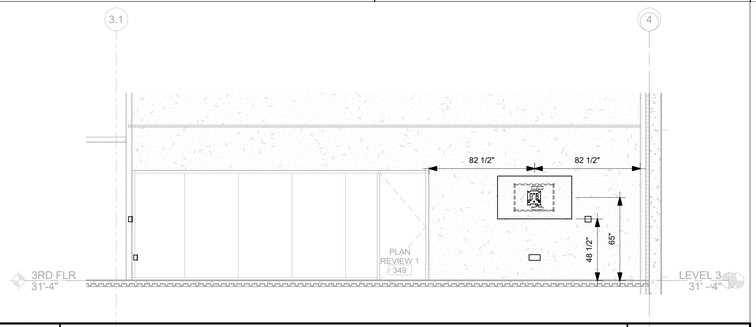
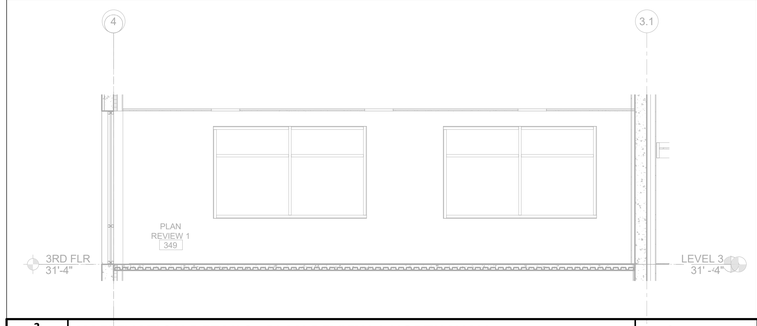


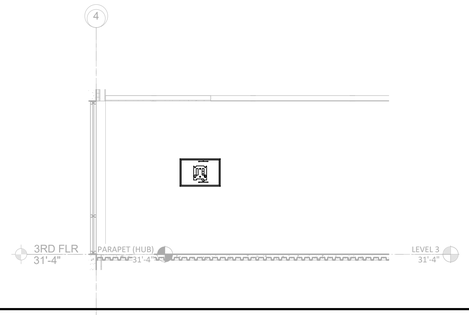
1 AV-306	AV ELEVATION DETAILS - PLAN REVIEW 1 EAST WALL	1/4" = 1'-0"



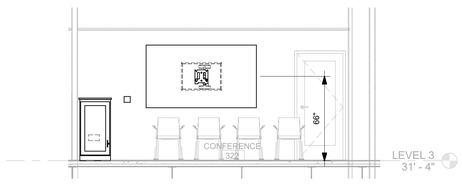
2 AV-306	AV ELEVATION DETAILS - PLAN REVIEW 1 SOUTH WALL	1/4" = 1'-0"



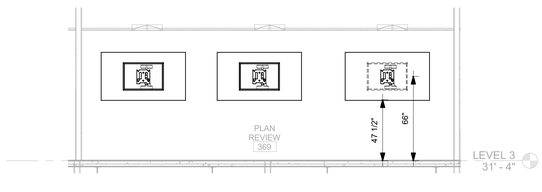
3 AV-306	AV ELEVATION DETAILS - PLAN REVIEW 1 NORTH WALL	1/4" = 1'-0"



4 AV-306	AV ELEVATION DETAILS - CORRIDOR 320	1/4" = 1'-0"



5 AV-306	AV ELEVATION DETAILS - CONFERENCE 322	1/4" = 1'-0"



6 AV-306	AV ELEVATION DETAILS - PLAN REVIEW 369	1/4" = 1'-0"

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AUDIO VISUAL ELEVATION DETAILS

DATE:
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AV-306

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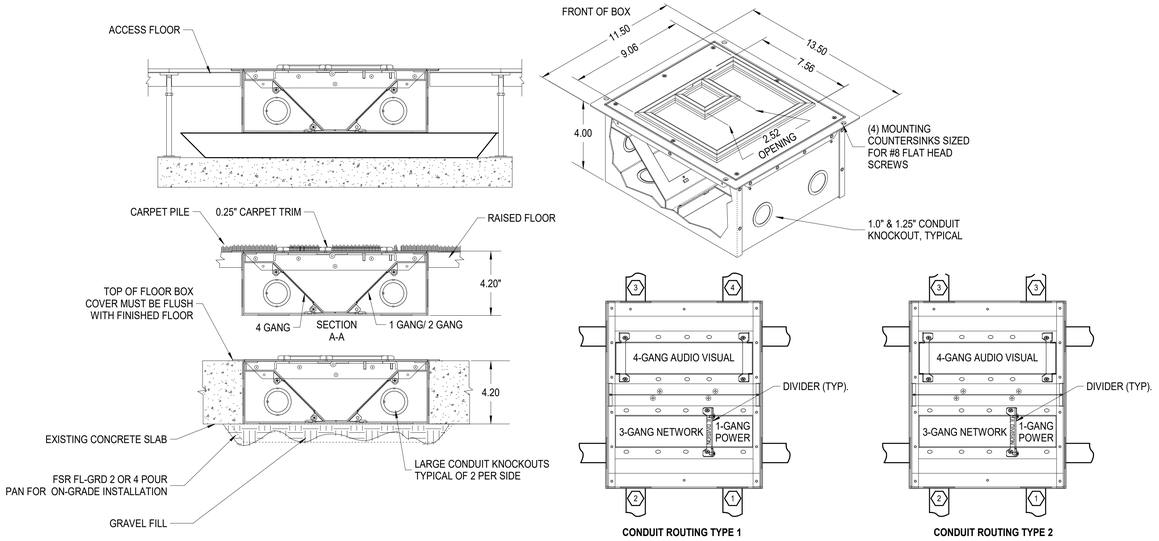


NOTES (THIS DETAIL ONLY):

1. FLOOR BOX DIMENSIONS 10.0" (W) x 12.16" (L) X 4.0" (D).
2. FLOOR BOX HAS (8) CONDUIT KNOCKOUTS ON BOTTOM.
3. ALL KNOCKOUTS ARE FOR 0.75", 1.0" OR 1.25" CONDUIT.
4. ALL FLOOR BOXES TO HAVE FLAT COVER.
5. PROVIDE SIGNAL "DIVIDERS" AS REQUIRED.

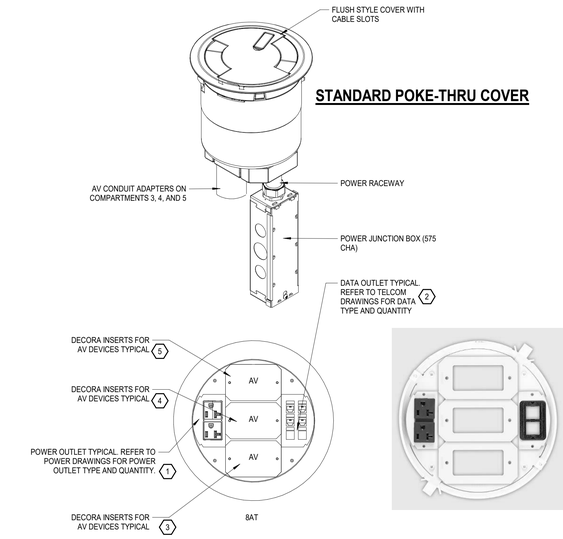
KEY NOTES (THIS DETAIL ONLY):

1. TO ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
2. TO DATA CLOSET. REFER TO TELECOM DRAWINGS.
3. 1.25" CONDUIT FOR AV TO NEAREST CABLE TRAY.
4. 1.25" CONDUIT TO TV# BOX IN SAME ROOM.

NOTE:

FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

1 AV-401 **SHARED FLOOR BOX - FSR 500P-4 DETAILS** NTS



STANDARD POKE-THRU COVER

NOTES (THIS DETAIL ONLY):

SELECTED PLATES:

1. COMPARTMENT 1
   68REC - TWO (2) PROPRIETARY 20AMP DUPLEX POWER RECEPTACLES WITH MOUNTING PLATES.
2. COMPARTMENT 2
   682A - 2 PORT COMMUNICATIONS DEVICE PLATE.
3. COMPARTMENT 3
   8DEC - SINGLEGANG DEVICE PLATE THAT WILL ACCEPT DECORATOR STYLE DEVICES SUCH AS 20A RECEPTACLES, GGCIS, 106 ADAPTERS OR A/V DEVICES. FITS IN ANY ONE (1) OF THE THREE (3) GANGS IN THE CENTER COMPARTMENT.
4. COMPARTMENT 4
   8DEC - SINGLEGANG DEVICE PLATE THAT WILL ACCEPT DECORATOR STYLE DEVICES SUCH AS 20A RECEPTACLES, GGCIS, 106 ADAPTERS OR A/V DEVICES. FITS IN ANY ONE (1) OF THE THREE (3) GANGS IN THE CENTER COMPARTMENT.
5. COMPARTMENT 5
   8DEC - SINGLEGANG DEVICE PLATE THAT WILL ACCEPT DECORATOR STYLE DEVICES SUCH AS 20A RECEPTACLES, GGCIS, 106 ADAPTERS OR A/V DEVICES. FITS IN ANY ONE (1) OF THE THREE (3) GANGS IN THE CENTER COMPARTMENT

SELECTED CONDUIT ADAPTERS:

COMPARTMENT 1
575CHA BOTTOM HOUSING ASSEMBLY.

COMPARTMENT 2
5PTHA - HALF-GANG PASS THROUGH HOUSING ASSEMBLY.

COMPARTMENT 3
1125CHA - SINGLE COMPARTMENT 1 1/4" TRADE SIZE CONDUIT HOUSING ASSEMBLY.

COMPARTMENT 4 & 5
1150CHA - DOUBLE COMPARTMENT 1 1/4" TRADE SIZE CONDUIT HOUSING ASSEMBLY.

TYPE 1 CONDUIT ROUTING:

COMPARTMENT 1
TO ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.

COMPARTMENT 2
REFER TO TELECOM DRAWINGS.

COMPARTMENT 3
1.25" CONDUIT TO NEAREST CABLE TRAY.

COMPARTMENT 4 & 5
1.25" CONDUIT TO TV# BOX IN SAME ROOM AS POKE THROUGH.

TYPE 2 CONDUIT ROUTING:

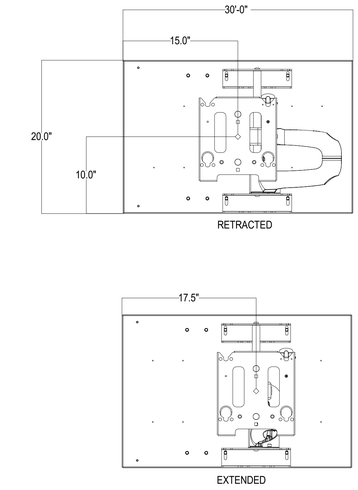
COMPARTMENT 1
TO ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.

COMPARTMENT 2
REFER TO TELECOM DRAWINGS.

COMPARTMENT 3
1.25" CONDUIT TO NEAREST CABLE TRAY.

COMPARTMENT 4 & 5
1.25" CONDUIT TO NEAREST CABLE TRAY.

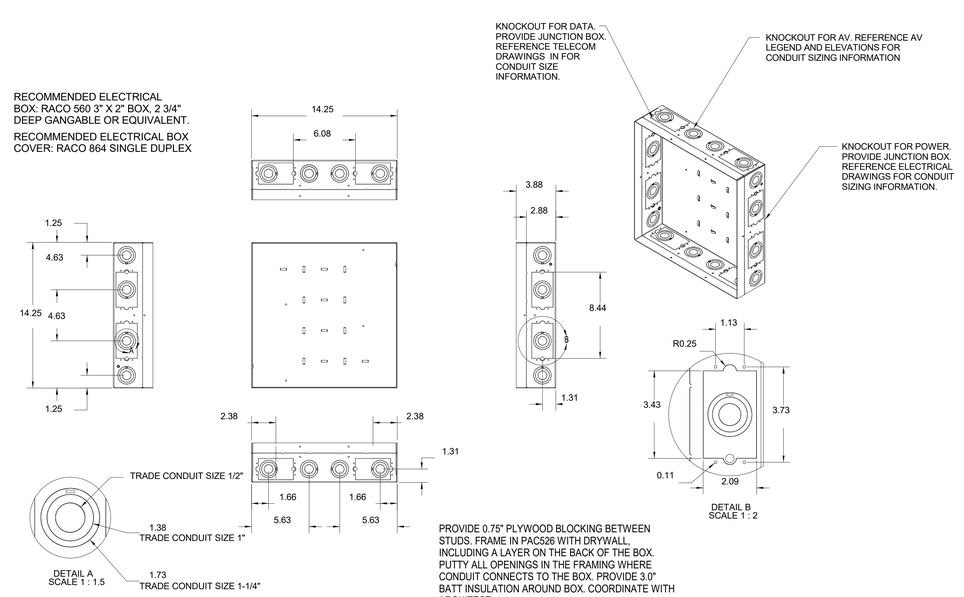
2 AV-401 **POKE-THRU WIREMOLD 8AT DETAILS** NTS



NOTES: (THIS DETAIL ONLY)

1. BASIS OF DESIGN IS THE CHIEF MANUFACTURING PAC501B (IN-WALL BACK BOX). THE MOUNTING ARM IS THE PWRIUB AND IS SOLD SEPARATELY AND SHOWN HERE FOR REFERENCE ONLY (WILL BE PROVIDED BY OTHERS)
2. CENTER PAC501B AT HEIGHT INDICATED ON ELEVATIONS AND/OR FLOOR PLANS.
3. INSTALL PAC501B PER MANUFACTURER'S INSTRUCTIONS. PROVIDE 0.75" PLYWOOD BLOCKING BETWEEN STUDS. FRAME IN PAC501 WITH DRYWALL, INCLUDING A LAYER ON THE BACK OF THE BOX. PUTTY ALL OPENINGS IN THE FRAMING WHERE CONDUIT CONNECTS TO THE BOX. PROVIDE 3.0" BATT INSULATION AROUND BOX. COORDINATE WITH ARCHITECT.
4. PROVIDE TRIM KIT FOR PAC501B.
5. COMPLETE DISPLAY ASSEMBLY SHALL SUPPORT 125 LBS, MINIMUM.
6. REFERENCE ARCHITECTURAL DETAILS FOR SOUND ISOLATION REQUIREMENTS

3 AV-401 **AV FLAT PANEL DISPLAY PAC501 MOUNT DETAILS** NTS



PROVIDE 0.75" PLYWOOD BLOCKING BETWEEN STUDS. FRAME IN PAC526 WITH DRYWALL, INCLUDING A LAYER ON THE BACK OF THE BOX. PUTTY ALL OPENINGS IN THE FRAMING WHERE CONDUIT CONNECTS TO THE BOX. PROVIDE 3.0" BATT INSULATION AROUND BOX. COORDINATE WITH ARCHITECT.

NOTES: (THIS DETAIL ONLY)

1. BASIS OF DESIGN IS THE CHIEF MANUFACTURING PAC526F (IN-WALL BACK BOX).
2. CENTER PAC526F AT HEIGHT INDICATED ON ELEVATIONS AND FLOOR PLANS.
3. INSTALL PAC526F PER MANUFACTURER'S INSTRUCTIONS. PROVIDE PLYWOOD FRAMING AROUND PAC526F PER MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE TRIM KIT FOR PAC526F.
5. COMPLETE DISPLAY ASSEMBLY SHALL SUPPORT 125 LBS, MINIMUM.
6. REFERENCE ARCHITECTURAL DETAILS FOR SOUND ISOLATION REQUIREMENTS

4 AV-401 **AV FLAT PANEL DISPLAY PAC526 MOUNT DETAIL** NTS

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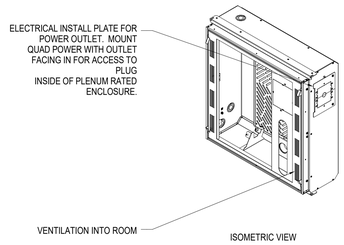
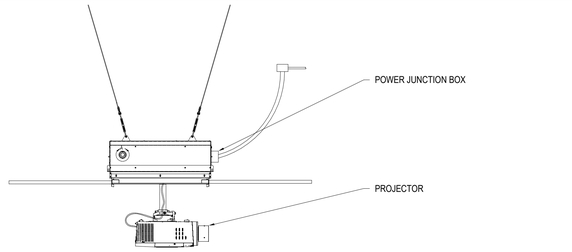
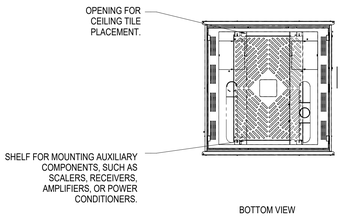


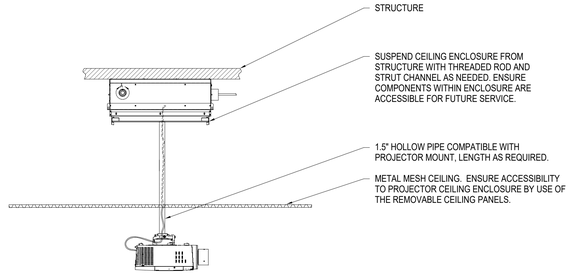
ISOMETRIC VIEW



SIDE ELEVATION - DROP CEILING



BOTTOM VIEW



SIDE ELEVATION - METAL CEILING

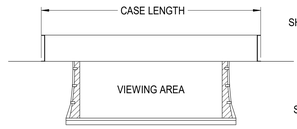
NOTE: IF PROJECTOR IS OVER 50lbs, TIE PROJECTOR DIRECTLY TO STRUCTURE FROM THE PIPE.

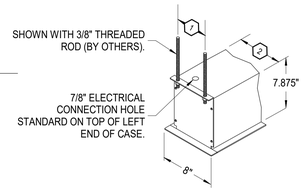
NOTES: (THIS DETAIL ONLY)

1. BASIS OF DESIGN IS THE CHIEF MANUFACTURING CMS492C (CEILING MOUNTED PROJECTOR). PROJECTOR, MOUNTING COLUMN, MOUNTING FLANGES ARE NIC. AND SHOWN HERE FOR REFERENCE ONLY (WILL BE PROVIDED BY OTHERS)
2. CENTER CMS492C AT HEIGHT INDICATED ON ELEVATIONS AND FLOOR PLANS.
3. INSTALL CMS492C PER MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE TRIM KIT FOR CMS492C.
5. COMPLETE PROJECTOR ASSEMBLY SHALL SUPPORT 125 LBS. MINIMUM.
6. REFERENCE ARCHITECTURAL DETAILS FOR SOUND ISOLATION REQUIREMENTS

NOTE:
FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS

1 AV-402 **AV PROJECTOR MOUNTING DETAILS** — 3/32" = 1'-0"





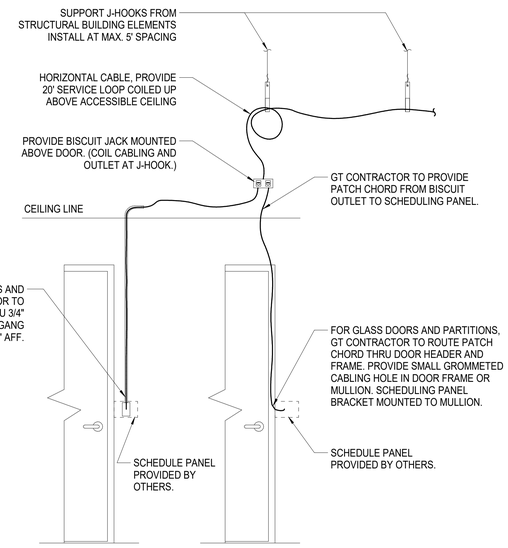
NOTES: (THIS DETAIL ONLY)

1. BASIS OF DESIGN FOR ALL LOW VOLTAGE CONTROLLED FRONT PROJECTION SCREENS IS THE DRAPER ACCESS SERIES V TAB TENSIONED PROJECTION SCREEN.

KEY NOTES: (THIS DETAIL ONLY)

1. 4.875" SEPERATION
2. 6.875" SEPERATION

2 AV-402 **AV - PROJECTION SCREEN** — NTS



GENERAL NOTES (THIS DETAIL ONLY):
1. COORDINATE WITH AUDIO VISUAL SCHEDULING PANEL LOCATION.

3 AV-402 **AV SCHEDULING PANEL MOUNTING DETAILS** — NO SCALE

PROJECTION SCREEN SCHEDULE

SCREEN NUMBER	LOCATION	TYPE (NOTE 1)	OPERATION (NOTE 2)	MOUNTING (NOTE 3)	VIEWING AREA			OVERALL CASE LENGTH, IN.	OVERALL WEIGHT, LBS.	BLACK DROP, IN. (NOTE 4)	NOTES
					HEIGHT, IN.	WIDTH, IN.	DIAGONAL, IN				
1	TRAINING ROOM 136	F	L	CM	65	104	123			12	INSTALL SCREEN CASE SO THAT BOTTOM OF CASE IS FLUSH WITH CEILING.
1	TRAINING ROOM 137	F	L	CM	65	104	123			12	INSTALL SCREEN CASE SO THAT BOTTOM OF CASE IS FLUSH WITH CEILING.
1	CONFERENCE ROOM 139	F	L	CM	65	104	123			12	INSTALL SCREEN CASE SO THAT BOTTOM OF CASE IS FLUSH WITH CEILING.
1	CONFERNECE ROOM 138	F	L	CM	65	104	123			12	INSTALL SCREEN CASE SO THAT BOTTOM OF CASE IS FLUSH WITH CEILING.

NOTES:

1. TYPE:
   - F FRONT PROJECTION
   - R REAR PROJECTION
2. OPERATION:
   - M MANUAL
   - F FIXED
   - L LOW VOLTAGE
3. MOUNTING:
   - CR CEILING RECESSED
   - CM CEILING MOUNTED
   - W WALL - PROVIDE FLOATING WALL BRACKET
   - P PORTABLE
   - N NOT APPLICABLE
4. BLACK DROP:
   BLACK DROP VALUES ARE BASED ON OPTIMAL CALCULATIONS. VERIFY BLACK DROP LENGTHS AND MOUNTING HEIGHTS PRIOR TO ORDERING SCREENS.
5. REFERENCE SPECIFICATION SECTION 27 41 14 FOR ADDITIONAL REQUIREMENTS.
6. SEE MANUFACTURER'S SPECIFICATION
7. BASIS OF DESIGN IS THE DRAPER, INC ACCESS E ELECTRICAL PROJECTION SCREEN
8. VIEWING SURFACE MATERIAL IS MATTE WHITE

4 AV-402 **PROJECTION SCREEN SCHEDULE** — 1/8" = 1'-0"

CAPE FEAR FD STONEWATER

LS3P

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WILMINGTON, NORTH CAROLINA 28401
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
AUDIO VISUAL DETAILS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
AV-402

TI GMP SET

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