

NOT FOR  
CONSTRUCTION

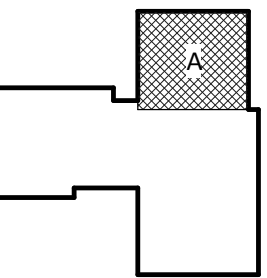
IC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

[illegible]

KEY PLAN:



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

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

# M-101A

## MP SET

### KEY NOTES:

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

**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:**

# M-101A

## MP SET

EXACTLY ONE INCH LONG AT  
THIS SHEETS ORIGINAL PAGE SIZE

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1	HVAC TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A
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6'    
TRUE NORTH PROJECT NORTH

$$1/8'' = 1'-0''$$
$$1/8'' = 1'-0''$$







**SHEET NAME:**  
**VAC CONTROLS AHU**

## ADDENDUM #2

**SHEET:**

## MP SET

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THE LINE SHOWN ABOVE IS  
A FACILITY OR BUILDING OF  
THE STATE OF NORTH CAROLINA

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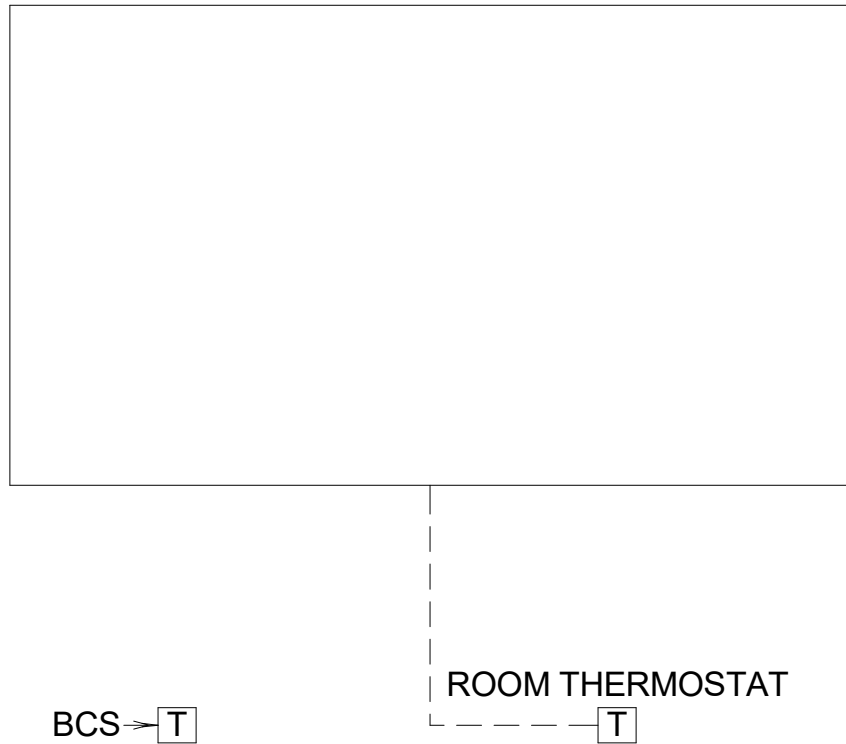
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BCS PANEL INPUT/OUTPUT SUMMARY DUCTLESS SPLIT SYSTEM		OUTPUTS		INPUTS		SOFTWARE					
		DIGITAL	ANALOG	DIGITAL	ANALOG	ALARM	BCS	ENERGY MGMT.			
	X	SYSTEM GRAPHIC DISPLAY									
		START/STOP									
		ENABLE/DISABLE									
		OPEN/CLOSE									
		SETPOINT ADJUST									
		BCS CONTROL									

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.

SEQUENCE OF OPERATION:  
THE CONTROLS FOR DUCTLESS SPLIT SYSTEMS SHALL FUNCTION AS FOLLOWS:  
1. PROVIDE CONTROL WIRING BETWEEN WALL-MOUNTED THERMOSTATS, INDOOR FAN-COIL UNITS, AND OUTDOOR CONDENSING UNITS.  
2. PROVIDE TEMPERATURE SENSOR IN ROOM TO MONITOR FROM BAS.

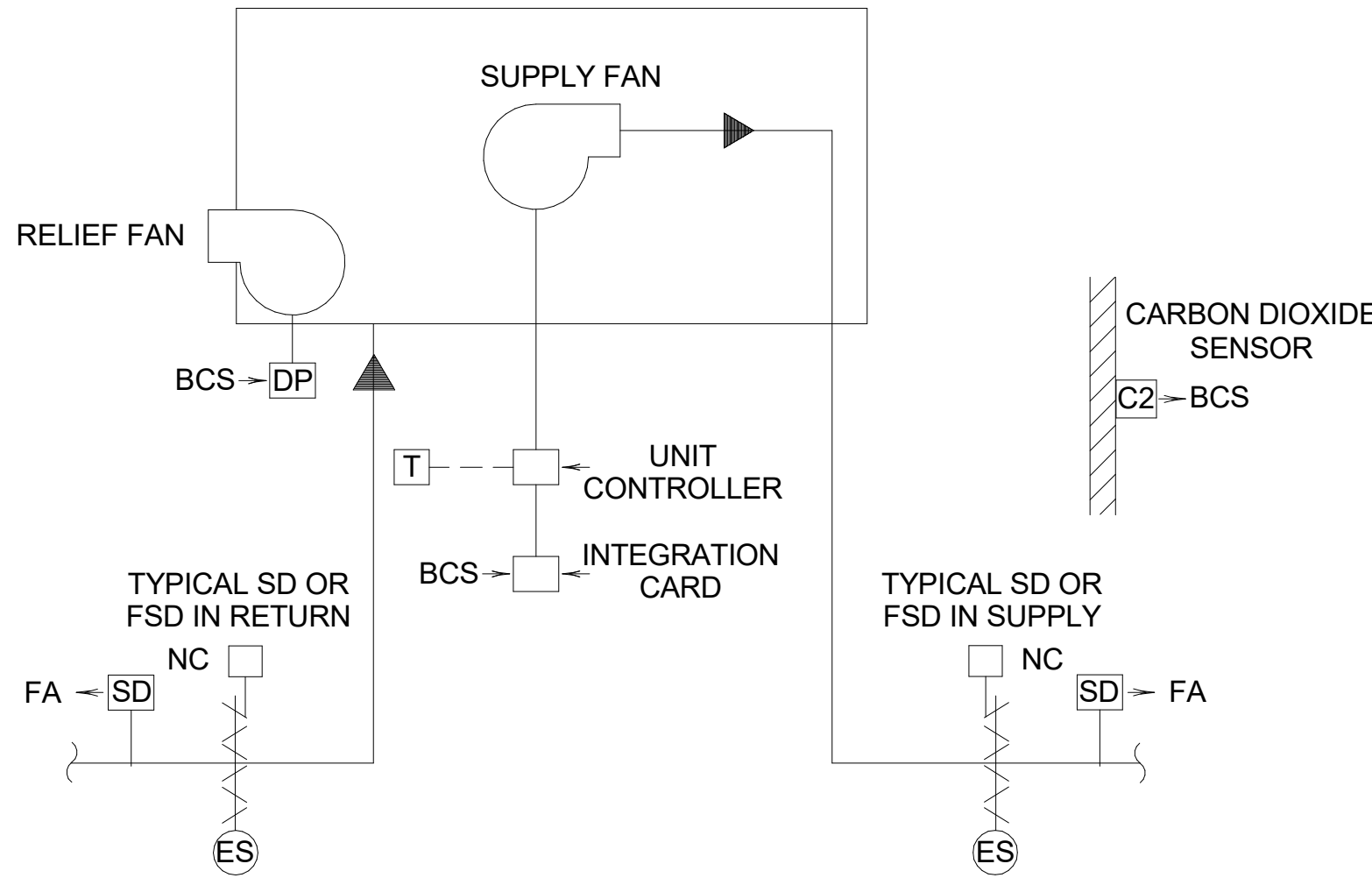


1	CONTROLS SCHEMATIC FOR DUCTLESS SPLIT SYSTEM	NTS
M-704		

BCS PANEL INPUT/OUTPUT SUMMARY ROOFTOP AIR CONDITIONING UNIT		OUTPUTS		INPUTS		SOFTWARE				
		DIGITAL	ANALOG	DIGITAL	ANALOG	ALARM	BCS	ENERGY MGMT.		
	SYSTEM GRAPHIC DISPLAY									FAILURE MODE (SEE NOTES 1 AND 2)  NOTES
	START/STOP									
	ENABLE/DISABLE									
	OPEN/CLOSE									
	SETPOINT ADJUST									
	BCS CONTROL									
	CURRENT SENSING RELAY									
	DIFFERENTIAL PRESSURE SWITCH									
	AUXILIARY CONTACT									
	ALARM CONTACT									
	PULSE CONTACT									
	SWITCH POSITION									
	TEMPERATURE									
	RELATIVE HUMIDITY									
	PRESSURE									
	AIR FLOW MEASUREMENT									
	CARBON DIOXIDE LEVEL									
	STATUS/INTERLOCK									
	HIGH/LOW LIMIT									
	RUN TIME TOTALIZATION									
	SENSOR FAILURE									
	COMMUNICATIONS FAILURE									
	FLOW FAILURE									
	PROPORTIONAL									
	PROPORTIONAL + INTEGRAL									
	TIME SCHEDULE START/STOP									
	OPTIMUM START/STOP									
	DAY/NIGHT SETBACK									
	ECONOMIZER									
	ENERGY METERING									
	ARCHIVAL SERVER									
	BAS TREND									

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.

SEQUENCE OF OPERATION :  
THE CONTROLS FOR ROOFTOP AIR CONDITIONING UNITS RTU-R-1 THROUGH RTU-R-4 SHALL EACH FUNCTION AS FOLLOWS:  
1. THIS IS A STANDALONE PACKAGE UNIT. UNIT SHALL OPERATE PER MANUFACTURER'S PROGRAMMED CONTROL SEQUENCE.  
2. INSTALL THE STATIC PRESSURE SENSOR IN THE DUCTWORK WHERE RECOMMENDED BY THE UNIT MANUFACTURER, AND CONNECT TO THE STATIC PRESSURE CONTROLLER IN THE UNIT.  
3. INSTALL THE REMOTE READOUT PANEL AND CONNECTING WIRING.  
4. INSTALL THE NIGHT SETBACK THERMOSTAT AND CONNECTING WIRING.  
5. PROVIDE BACNET INTEGRATION CARD.  
6. MODULATE THE OUTSIDE AIR TO MAINTAIN MINIMUM AIRFLOW AS MEASURED BY OUTSIDE AIR FLOW STATION. EVALUATE THE MINIMUM OUTSIDE AIR 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.  
7. ON ACTIVATION OF THE FIRE ALARM SYSTEM RELAY OR SMOKE DETECTOR, THE CORRESPONDING FIRE SMOKE DAMPER SHALL CLOSE AND THE ROOFTOP AIR CONDITIONING UNIT SHALL SHUT DOWN.  
8. RELIEF FAN TO MODULATE BUILDING PRESSURE SENSOR SETPOINT. INITIAL SETPOINT TO BE DETERMINED DURING TAB.



2	CONTROLS SCHEMATIC FOR ROOFTOP AIR CONDITIONING UNIT	NTS
M-704		



CAPE FEAR FD STONEWATER



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A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
HVAC CONTROLS RTU  
& DUCTLESS SPLIT  
SYSTEM

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

M-704

GMP SET

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THE LINE SHOWN ABOVE IS  
BACKSLOPE FOLLOWING AS  
THEY ARE SHOWN ON THE  
DRAWING

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## PLUMBING LEGEND

### SYMBOLS

	SOIL (S) OR WASTE (W) ABOVE FLOOR OR GRADE
	SOIL (S) OR WASTE (W) BELOW FLOOR OR GRADE
	VENT (V)
	RAINWATER (RW) ABOVE FLOOR OR GRADE
	RAINWATER (RW) BELOW FLOOR OR GRADE
	OVERFLOW RAINWATER (ORW) ABOVE FLOOR OR GRADE
	OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE
	COLD WATER (CW)
	HOT WATER (HW)
	HOT WATER CIRCULATING (HWC)
	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
	FLOW BALANCING ASSEMBLY
	FLOW METER
	WATER METER
	BACKFLOW PREVENTER
	PUMP

### ABBREVIATIONS

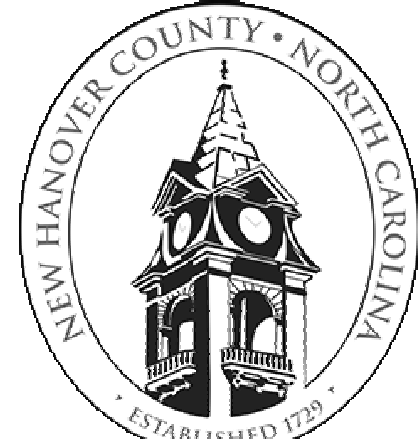
AAV	AIR ADMITTANCE VALVE	SD	SHOWER DRAIN
ABV	ABOVE	SEC	SECURITY
AFF/AFG/ARF	ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR	SHR	SHOWER
AP	ACCESS PANEL	SHT	SHEET
AR	ACID-RESISTING	SM	SHEET METAL
ARCH	ARCHITECT/ARCHITECTURAL	SPEC	SPECIFICATION
ARCO	ACID-RESISTING CLEANOUT	SS	SERVICE SINK
AS	ALLOY STEEL	SSTL	STAINLESS STEEL
ATTP (#)	AUTOMATIC TRAP PRIMER PANEL (# INDICATES THE NUMBER OF OUTLETS)	TD	TRENCH DRAIN
BEL	BELOW	TEMP	TEMPERATURE
BF	BELOW FLOOR	TP	TRAP PRIMER
CB	CATCH BASIN	TR	THROUGH ROOF
CI	CURB INLET	TS	TIGHT TO STRUCTURE
CLG	CEILING	UC	UNDERCOUNTER
COL	COLUMN	UG	UNDERGROUND
CONC	CONCRETE	UR	URINAL
CONN	CONNECT/CONNECTION	VB	VACUUM BREAKER
CONT	CONTINUATION/CONTINUOUS	VTR	VENT THROUGH ROOF
CSS	CLINICAL SERVICE SINK	WC	WATER CLOSET
CTE	CONNECT TO EXISTING	WG	WATER GAUGE
DI	DROPPED INLET	WM	WASHING MACHINE
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		

### 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 RAIN/WATER 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.
6. AIR ADMITTANCE VALVES SHALL BE INSTALLED WHERE INDICATED ON THE PLUMBING FLOOR PLANS. VALVES SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CONFORM TO ASSE 1050 & 1051.

Plumbing Legend

1/8" = 1'-0"



CAPE FEAR FD STONEWATER

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A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
PLUMBING LEGEND

DATE: 2020.12.16

CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

P-001

GMP SET

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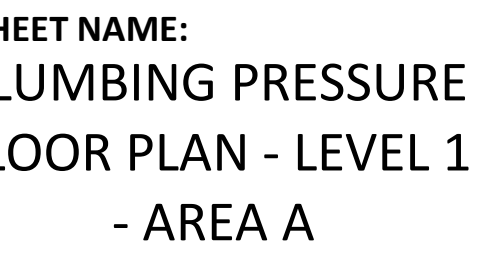
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KEY PLAN:



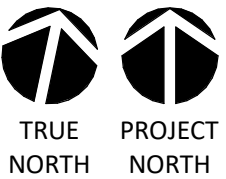
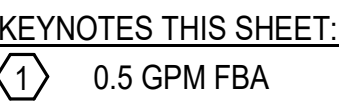
DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

MEET:

**D-101A**

## COMP SET



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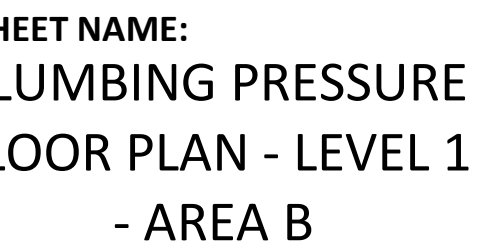
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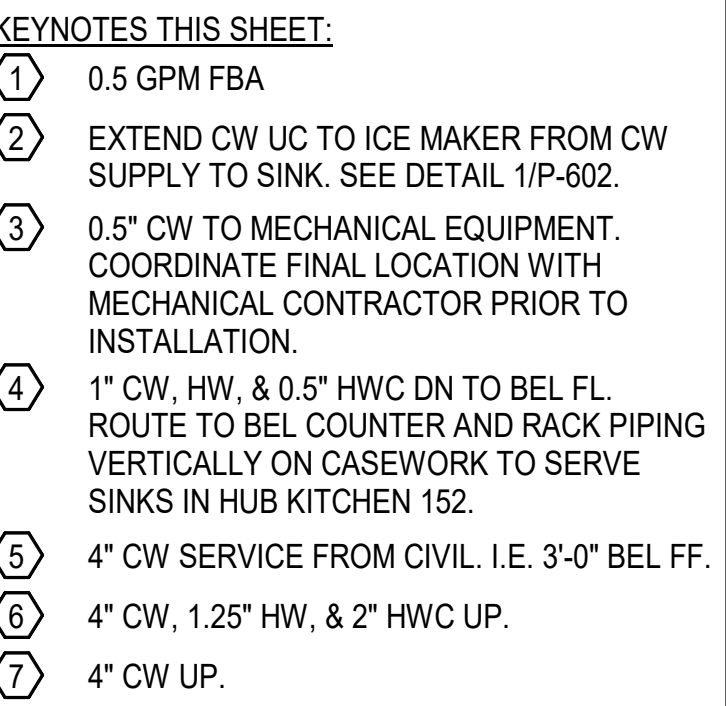


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## ADDENDUM #2

**SHEET:**

## GMP SET



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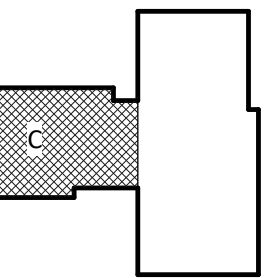
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WILMINGTON, NC 28403

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E		2021.01.08	ADDENDUM #2
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### KEY PLAN:



SHEET NAME:  
PLUMBING PRESSURE  
FLOOR PLAN - LEVEL 1  
- AREA C

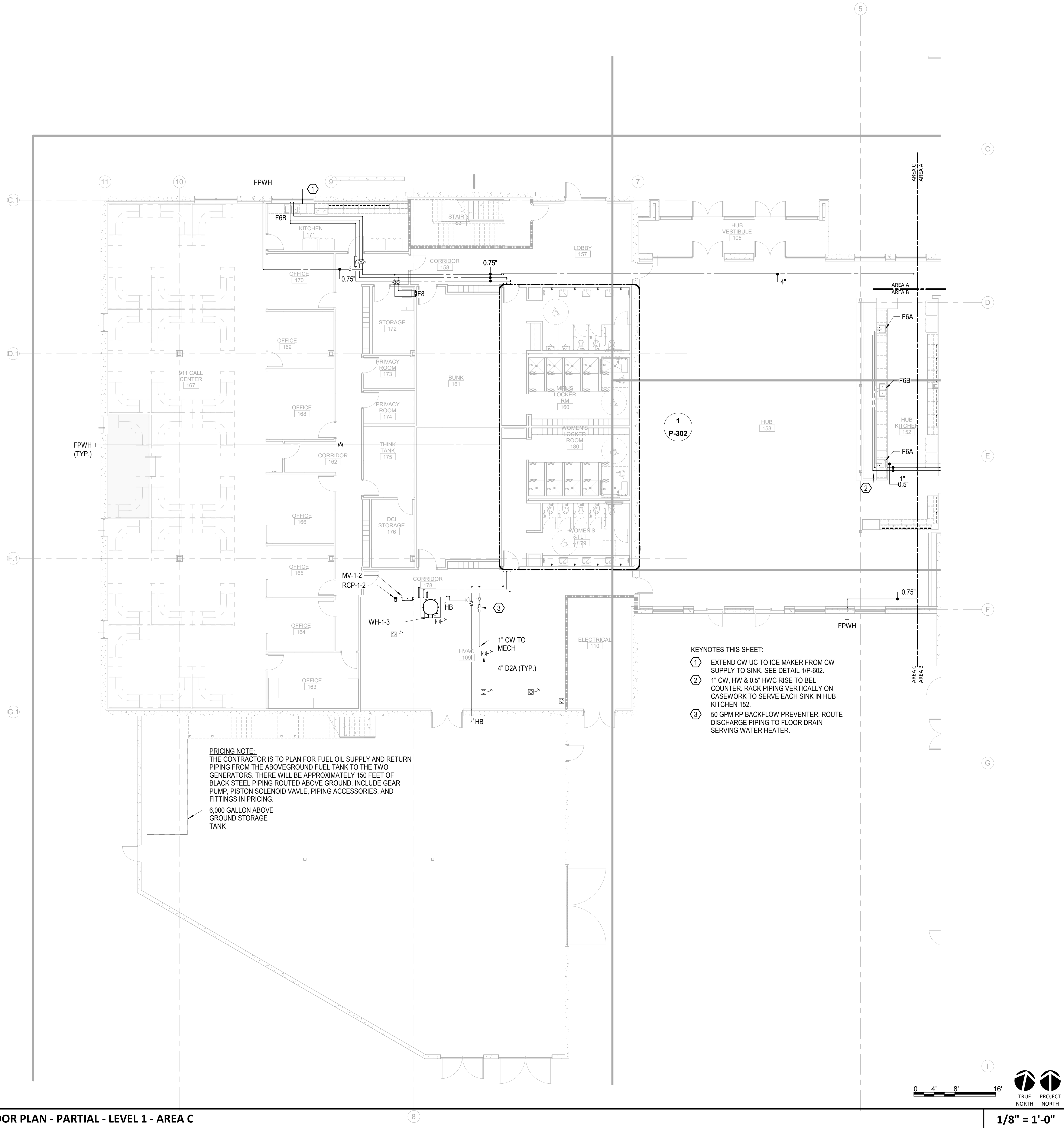
DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

**P-101C**

## MP SET



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THIS SHEETS ORIGINAL PAGE SIZE

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**PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C**

$$\underline{1/8'' = 1'-0''}$$



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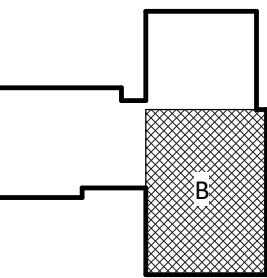
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KEY PLAN:



**SHEET NAME:**  
**PLUMBING PRESSURE**  
**FLOOR PLAN - LEVEL 2**  
**- AREA B**

DATE: 2020.12.16  
CURRENT: 2021.01.08

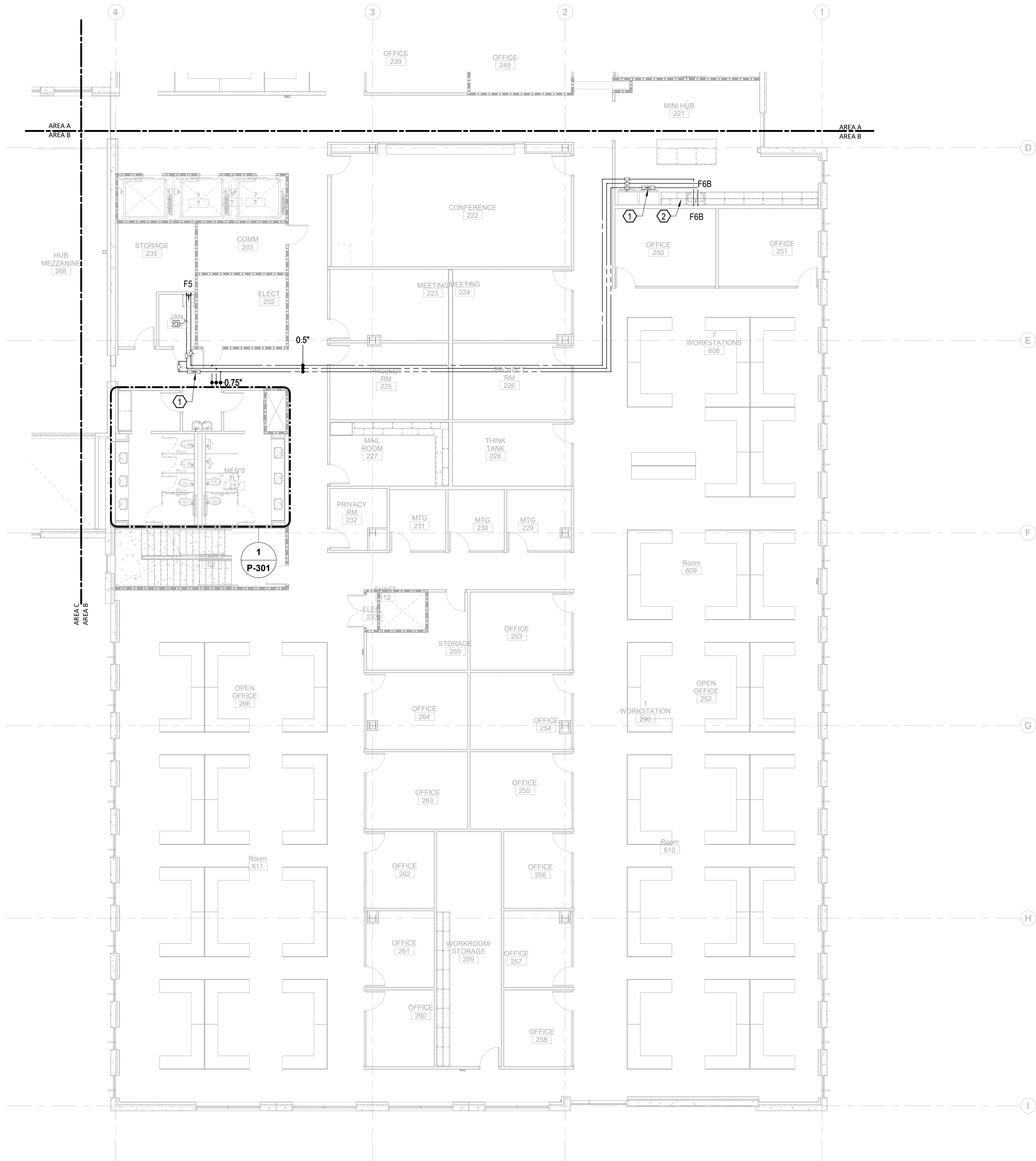
## APPENDIX #2

**SHEET:**

**P-102B**

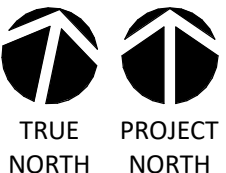
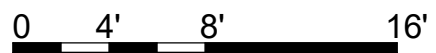
## GMP SET

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KEYNOTES THIS SHEET:

- 1 0.5 GPM FBA
- 2 EXTEND CW UC TO ICE MAKER FROM CW  
SUPPLY TO SINK. SEE DETAIL 1/P-602.



**1/8" = 1'-0"**



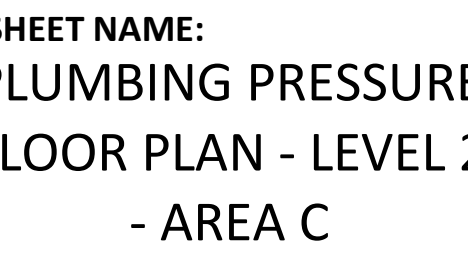


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**KEY PLAN:**

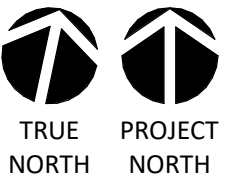


## ADDENDUM #2

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## GMP SET

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1	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C
P-102C	



01 NORTH THIRD STREET, SUITE 500  
WILMINGTON, NORTH CAROLINA 28401  
L. 910.790.3111 FAX. 910.790.9901  
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NOT FOR  
CONSTRUCTION

IC Government Center 7702-190810

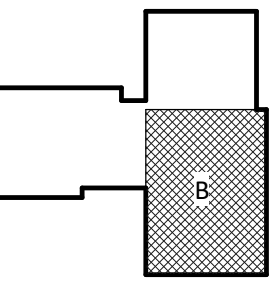
**NEW HANOVER COUNTY**  
**GOVERNMENT CENTER**  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

[illegible]

KEY PLAN:



**SHEET NAME:**  
**LUMBERING PRESSURE**  
**FLOOR PLAN - LEVEL 3**  
**- AREA B**

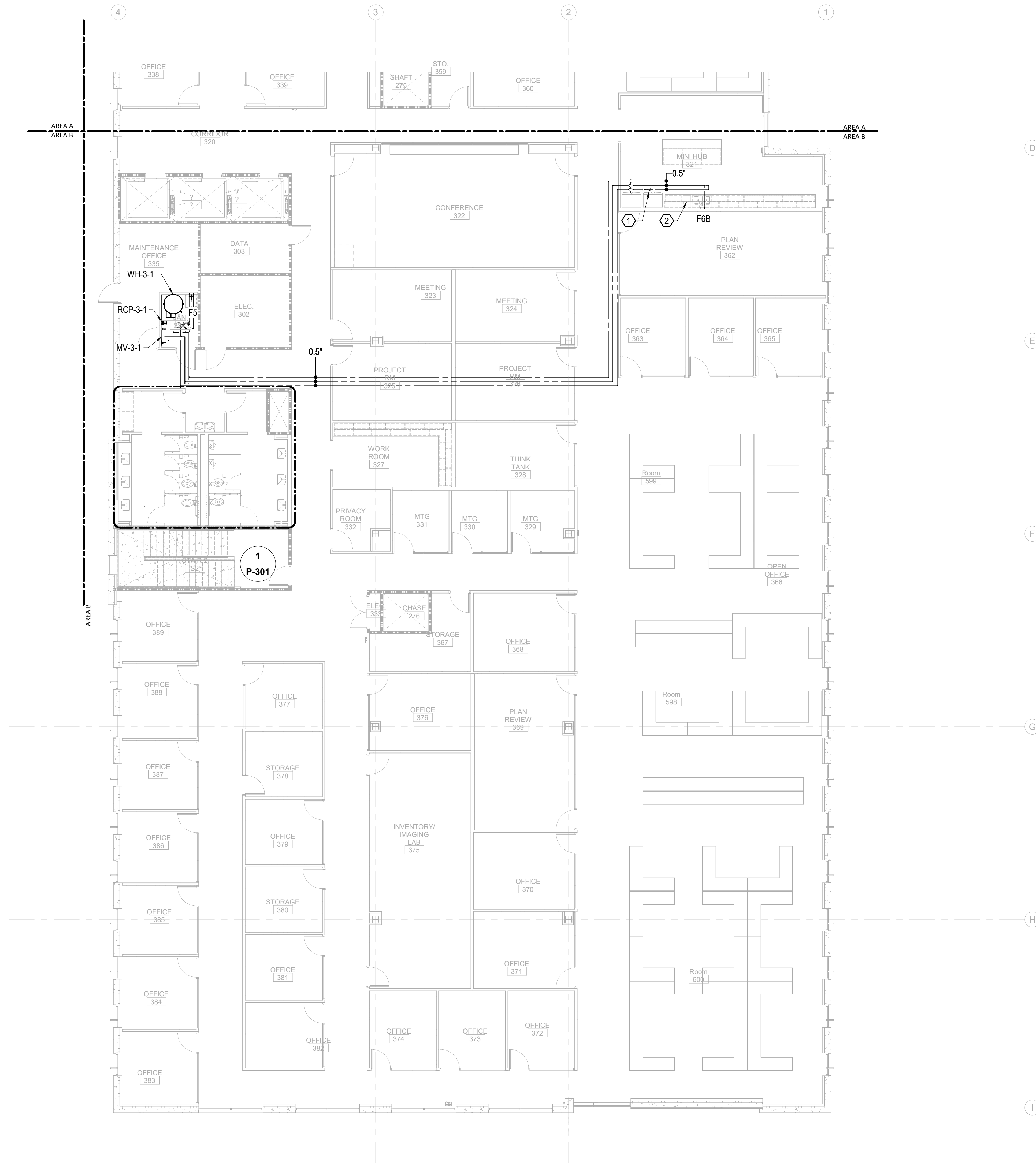
DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

**P-103B**

## GMP SET



KEYNOTES THIS SHEET:

- 1 0.5 GPM FBA
- 2 EXTEND CW UC TO ICE MAKER FROM CW SUPPLY TO SINK. SEE DETAIL 1/P-602.

**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



—

**D**

“

3

A

1	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B
P-103B	

$$1/8'' = 1'-0''$$



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CONSTRUCTION

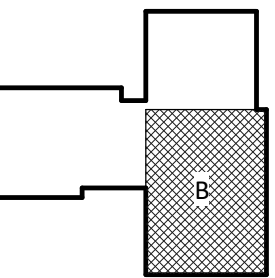
IC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

[illegible]

KEY PLAN:



**SHEET NAME:**  
**PLUMBING PRESSURE**  
**FLOOR PLAN - LEVEL 4**  
**- AREA B**

DATE: 2020.12.16  
CURRENT: 2021.01.08

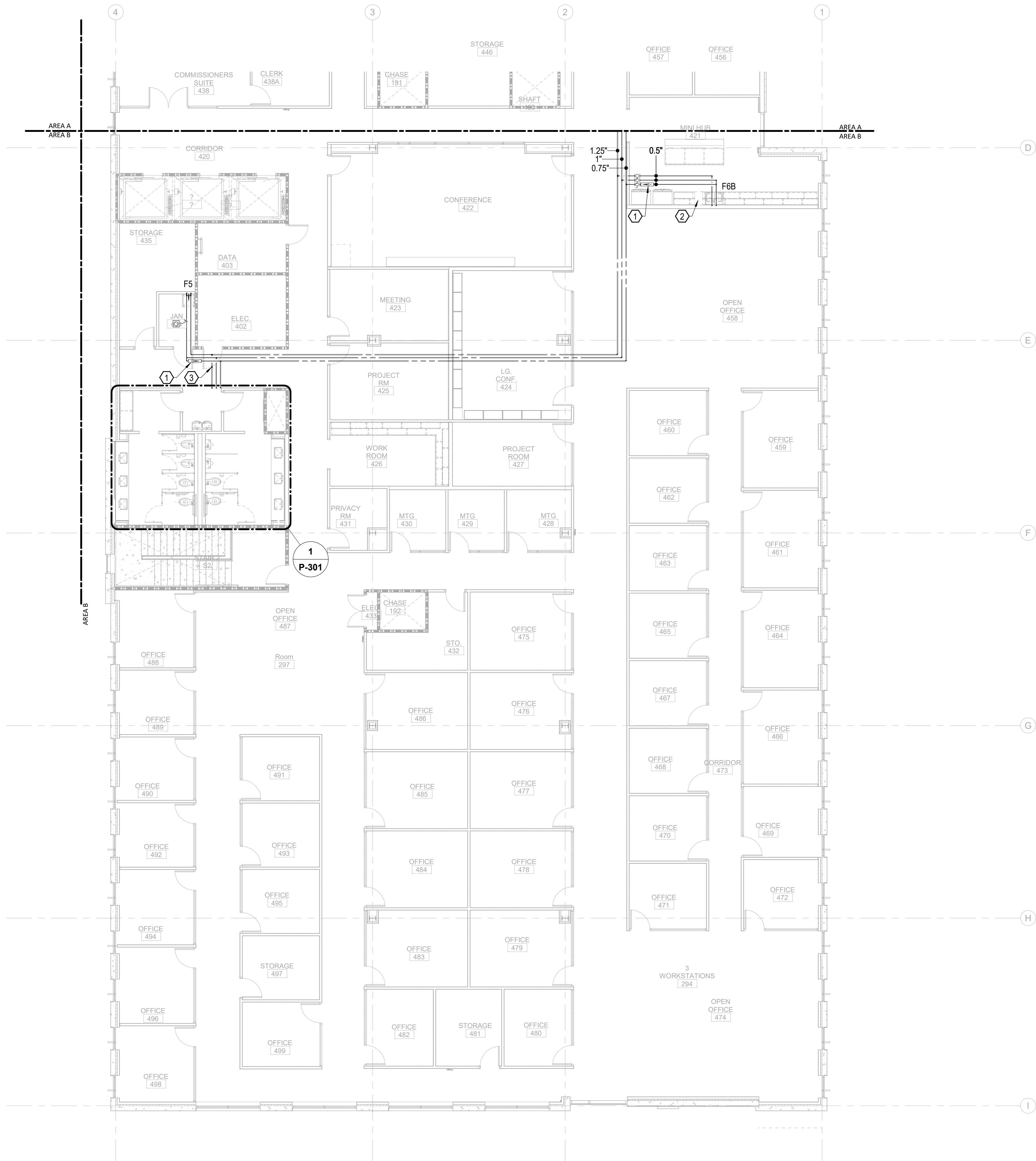
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**SHEET:**

**P-104B**

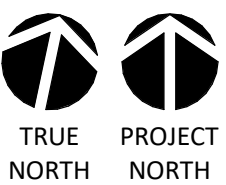
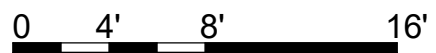
## GMP SET

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Suite 215  
Durham, NC 27703  
T 919 783-7812  
Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312



KEYNOTES THIS SHEET:

- 1 0.5 GPM FBA
- 2 EXTEND CW UC TO ICE MAKER FROM CW SUPPLY TO SINK. SEE DETAIL 1/P-602.
- 3 0.75" CW UP TO ROOF HYDRANT.



**1/8" = 1'-0"**

EXACTLY ONE INCH LONG AT  
THIS SHEETS ORIGINAL PAGE SIZE

—

**D**

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1/7/2021 2:36:16 PM

1	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B
P-104B	

THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING SIZE  
THIS IS NOT A SCALE

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1/7/2021 2:36:30 PM

1  
P-201A PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A

1

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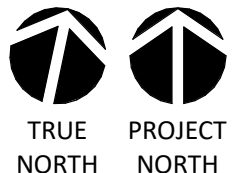
4

5

6

1/8" = 1'-0"

0 4' 8' 16'



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Suite 215  
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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

SHEET NAME:  
PLUMBING WASTE  
FLOOR PLAN - LEVEL 1  
- AREA A

DATE: 2020.12.16  
CURRENT: 2021.01.08

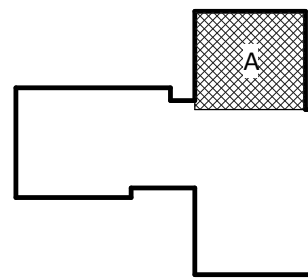
ADDENDUM #2

SHEET:

**P-201A**

GMP SET

KEY PLAN:



SHEET NAME:  
PLUMBING WASTE  
FLOOR PLAN - LEVEL 1  
- AREA A

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

**P-201A**

GMP SET

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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NOT FOR  
CONSTRUCTION

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**LS3P**

CAPE FEAR FD STONEWATER





THE LINE SHOWN ABOVE IS  
A PLUMBING WASTE LINE  
AND NOT A PLUMBING LINE

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1/7/2021 2:36:45 PM

1  
P-201B

PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B

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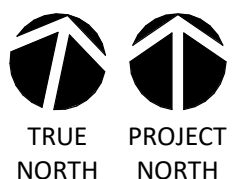
3

4

5

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0 4' 8' 16'



1/8" = 1'-0"

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Consulting Engineering Group  
5425 Page Rd  
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Durham, NC 27703  
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N&B PROJECT: 19N342  
Firm License No. F-0312

SHEET NAME:  
PLUMBING WASTE  
FLOOR PLAN - LEVEL 1  
- AREA B

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

**P-201B**

GMP SET



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CONSTRUCTION

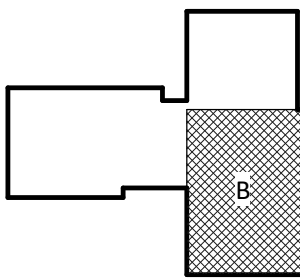
NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
PLUMBING WASTE  
FLOOR PLAN - LEVEL 1  
- AREA B

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

**P-201B**

GMP SET

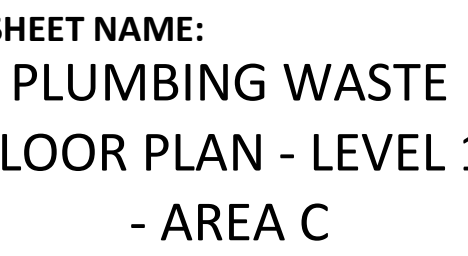


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HC Goverment Center 7702-19081

LS3P PROJECT: 7702-190810

**KEY PLAN:**

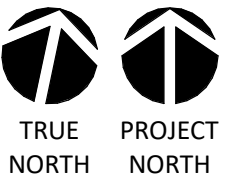


## ADDENDUM #2

HEET:

## GMP SET

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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312



**$1/8'' = 1'-0''$**

1	PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C
P.201C	

**$1/8'' = 1'-0''$**

THE LINE SHOWN ABOVE IS  
A PLUMBING WASTE LINE  
AND NOT A PLUMBING LINE  
OR A PLUMBING WASTE LINE

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1/7/2021 2:37:10 PM  
1  
P-202B

PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B

1

2

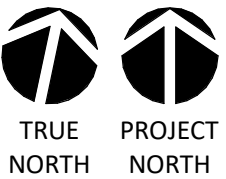
3

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0' 4' 8' 16'



1/8" = 1'-0"

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Consulting Engineering Group  
5425 Page Rd  
Suite 215  
Durham, NC 27703  
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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

**SHEET NAME:**  
PLUMBING WASTE  
FLOOR PLAN - LEVEL 2  
- AREA B

**DATE:** 2020.12.16  
**CURRENT:** 2021.01.08

ADDENDUM #2

**SHEET:**

**P-202B**

GMP SET



CAPE FEAR FD STONEWATER

**LS3P**

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WILMINGTON, NORTH CAROLINA 28401  
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CONSTRUCTION

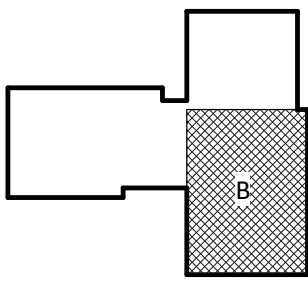
NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:





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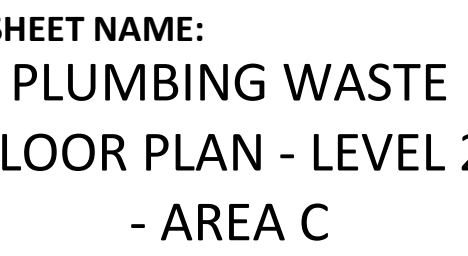
NOT FOR  
CONSTRUCTION

HC Goverment Center 7702-19081

GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

**KEY PLAN:**



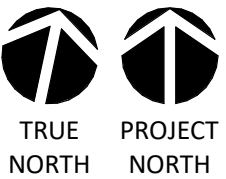
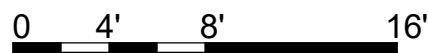
## ADDENDUM #2

HEET:

**P-2020**

## GMP SET

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Contact: Paul J. Kitchens  
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**1/8" = 1'-0"**





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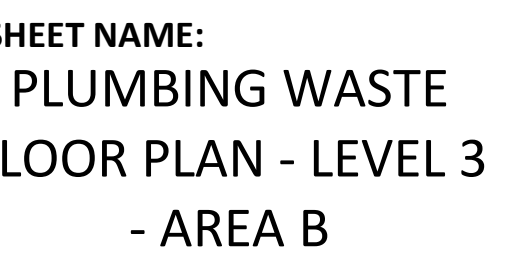
NOT FOR  
CONSTRUCTION

HC Goverment Center 7702-190810

WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

**KEY PLAN:**



DATE: 2020.12.16  
CURRENT: 2021.01.08

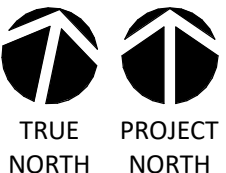
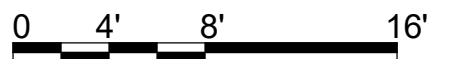
## ADDENDUM #2

**HEET:**

**P-203B**

## COMP SET

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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312


$$1/8'' = 1'-0''$$

THE LINE SHOWN ABOVE IS  
A PLUMBING WASTE LINE  
THIS LINE IS NOT TO BE  
CONSIDERED A PLUMBING  
WASTE LINE

E

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1/7/2021 2:37:34 PM  
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P-204B

PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B

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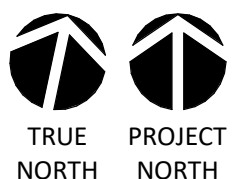
3

4

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0 4' 8' 16'



1/8" = 1'-0"

**Newcomb & Boyd**  
CONSULTANTS AND ENGINEERS  
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T 919 783-7812  
Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

**SHEET NAME:**  
PLUMBING WASTE  
FLOOR PLAN - LEVEL 4  
- AREA B

**DATE:** 2020.12.16  
**CURRENT:** 2021.01.08

ADDENDUM #2

**SHEET:**

**P-204B**

GMP SET



CAPE FEAR FD STONEWATER

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CONSTRUCTION

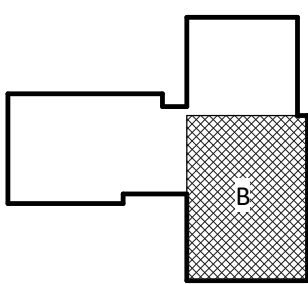
NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



**SHEET NAME:**  
PLUMBING WASTE  
FLOOR PLAN - LEVEL 4  
- AREA B

**DATE:** 2020.12.16  
**CURRENT:** 2021.01.08

ADDENDUM #2

**SHEET:**

**P-204B**

GMP SET

THE LINE DRAWN INDICATES  
PROJECT OR MEASUREMENT  
UNLESS OTHERWISE NOTED

E

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1/7/2021 2:37:54 PM  
1  
P-205

PLUMBING WASTE ROOF - C&S

1

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3/32" = 1'-0"



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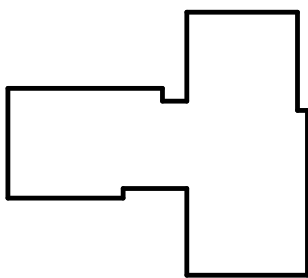
NOT FOR  
CONSTRUCTION

NHC Government Center 7702-190810

NEW HANOVER COUNTY  
GOVERNMENT CENTER  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
PLUMBING WASTE  
ROOF PLAN - OVERALL

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

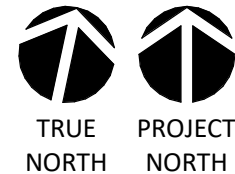
SHEET:

P-205

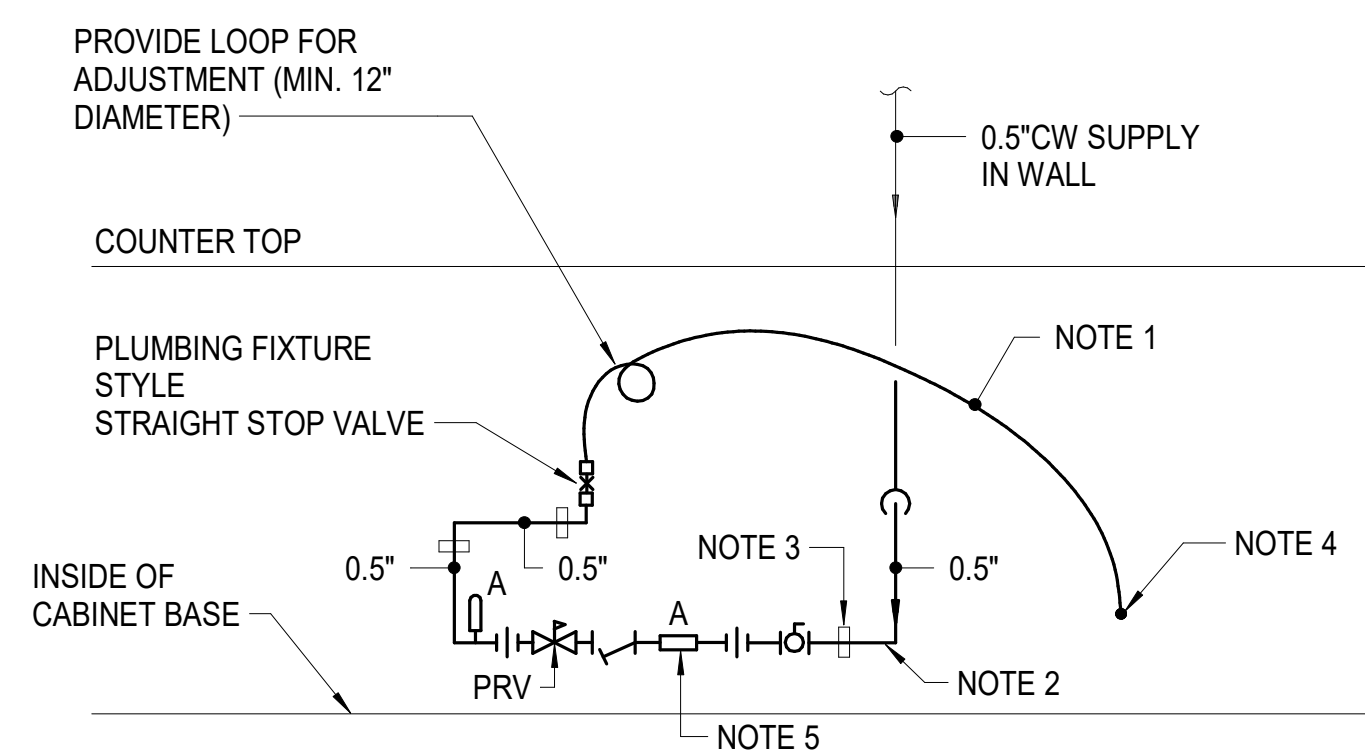
GMP SET

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Consulting Engineering Group  
5426 Page Rd  
Suite 215  
Durham, NC 27703  
T 919 783-7812  
Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

0 8' 16' 24'



TRUE NORTH  
PROJECT NORTH



- NOTES:**
1. SOFT COPPER TUBING SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
  2. INSTALL ASSEMBLY AS CLOSE AS POSSIBLE TO BOTTOM OF CABINET AND ALONG BACK WALL.
  3. AFFIX BRACKET ASSEMBLY TO WALL OF CABINET AS REQUIRED TO SUPPORT ALL PIPING & VALVES AND PREVENT MOVEMENT.
  4. CONNECT TO ICE MAKER PER MANUFACTURERS REQUIREMENTS.
  5. DOUBLE-SEAL, ATMOSPHERIC TYPE BACKFLOW PREVENTER. MANUFACTURER: WATTS SD-3 OR WILKINS 740.

① ICE MAKER PIPING DIAGRAM  
NO SCALE



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CONSTRUCTION

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WILMINGTON, NC 28403

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WILMINGTON, NC 28403

**S3P PROJECT: 7702-190810**

[illegible]

**SHEET NAME:**  
**PLUMBING DETAILS**

DATE: 2020.12.16  
CURRENT: 2021.01.08

### ADDENDUM #3

**SHEET:**

## P-602

**GMP SET**

**Newcomb & Boyd**  
CONSULTANTS AND ENGINEERS  
Consulting Engineering Group  
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Suite 215  
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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
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DATE: 2020.12.16

CURRENT: 2021.01.08

### ADDENDUM #3

**SHEET:**

## P-602

**GMP SET**







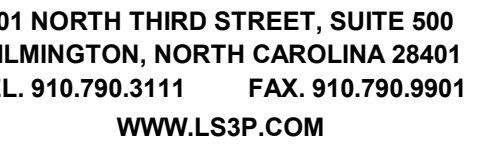




## GMP SET

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.

**Newcomb & Boyce**  
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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

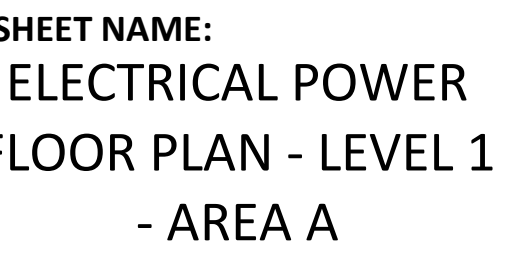


IC Government Center 7702-190810

GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

### KEY PLAN:



DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

## E-101A

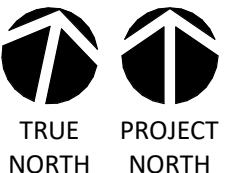
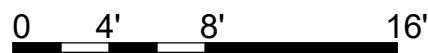
## GMP SET

**GENERAL NOTES:**

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
3. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.
4. 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 FOR CONNECTION TO WATER COOLER/FOUNTAINS, CIRCUIT SHALL BE PROTECTED BY GFCI CIRCUIT BREAKER IN PANEL.
- ② FOR CONNECTION TO AUTOMATIC FLUSH TOILETS AND FAUCETS TRANSFORMER POWER, COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.



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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING SIZE  
THIS DRAWING IS NOT TO SCALE

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E-101B  
ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B

1

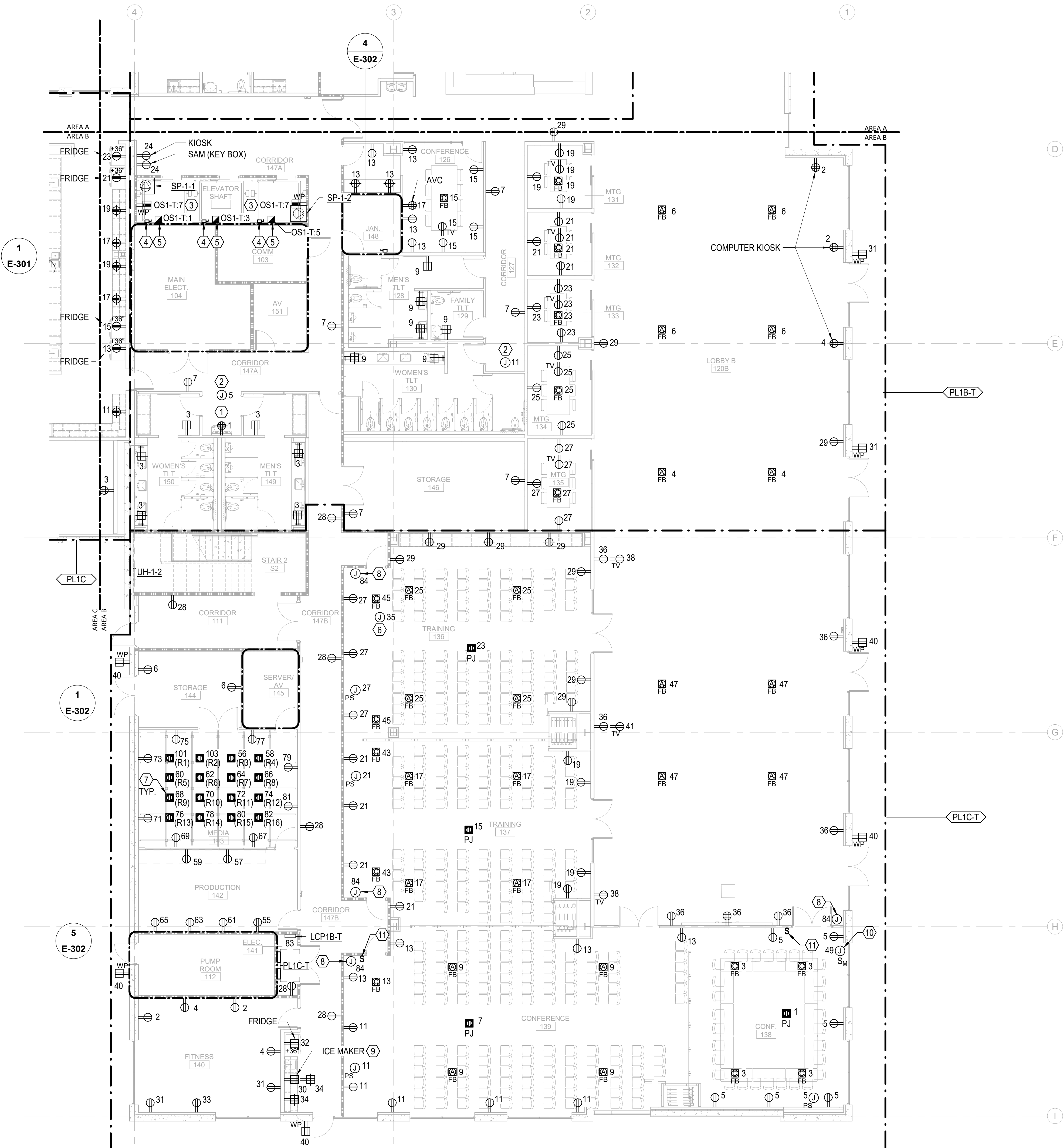
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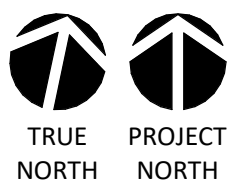
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0' 4' 8' 16'



1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
3. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

1. FOR CONNECTION TO WATER COOLER/FOUNTAINS, CIRCUIT SHALL BE PROTECTED BY GFCI CIRCUIT BREAKER IN PANEL.
2. FOR CONNECTION TO AUTOMATIC FLUSH TOILETS AND FAUCETS 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, 30/3F DISCONNECT FOR ELEVATOR CONTROLLER. FINAL CONNECTIONS ARE BY ELEVATOR INSTALLER.
5. PROVIDE 20A/1 ENCLOSED CIRCUIT BREAKER FOR ELEVATOR CAB LIGHTING AND POWER. FINAL CONNECTIONS ARE BY ELEVATOR INSTALLER.
6. FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.
7. PROVIDE DUPLEX RECEPTACLE MOUNTED TO PIPE GRID SYSTEM FOR SPECIALTY LIGHTING FIXTURE PLUG-IN CONNECTION. SPECIALTY LIGHTING FIXTURES ARE PROVIDED BY OWNER. COORDINATE EXACT OUTLET LOCATION WITH PIPE GRID SYSTEM PRIOR TO INSTALLATION. RECEPTACLE CIRCUIT SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL 'LCP1B-T' LOCATED IN ELECTRICAL CLOSET 141. RECEPTACLE CIRCUIT SHALL ALSO LOCALLY CONTROLLED VIA LOW VOLTAGE OVERRIDE SWITCH INDICATED ON LIGHTING PLAN.
8. FOR CONNECTION TO FRESKO MASTER LIGHTING CONTROLLER TOUCHSCREEN. REFER TO LIGHTING PLANS FOR DETAILS.
9. PROVIDE BLANK FACE SELF-TEST GFI OUTLET ABOVE COUNTER FOR GFI OUTLET BEHIND ICE MAKER. EQUIVALENT TO LEVITON GFRBG SERIES.
10. PROVIDE POWER TO SHADES/CONTROLLER. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FROM CONTROLLER TO SHADE MOTORS. REFER TO MANUFACTURER SUBMITTAL PACKAGE FOR FINAL LOCATIONS AND INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE BACKBOX FOR SWITCH AND CONDUIT WITH PULLSTRING BACK TO EACH CONTROLLER LOCATION FOR LOW VOLTAGE ELECTRICAL CONNECTIONS. LOW VOLTAGE SWITCH AND CABLING SHALL BE FURNISHED BY SHADE INSTALLER.



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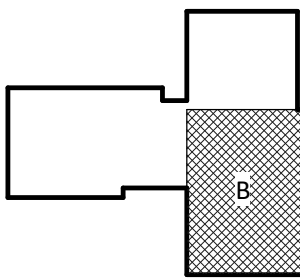
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GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

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A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL POWER  
FLOOR PLAN - LEVEL 1  
- AREA B

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-101B

GMP SET

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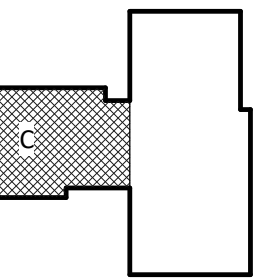
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**GOVERNMENT CENTER**  
GOVERNMENT CENTER DRIVE

WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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KEY PLAN:



**SHEET NAME:**  
**ELECTRICAL POWER**  
**FLOOR PLAN - LEVEL 1**  
**- AREA C**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## APPENDIX #2

**SHEET:**

## E-101C

## MP SET


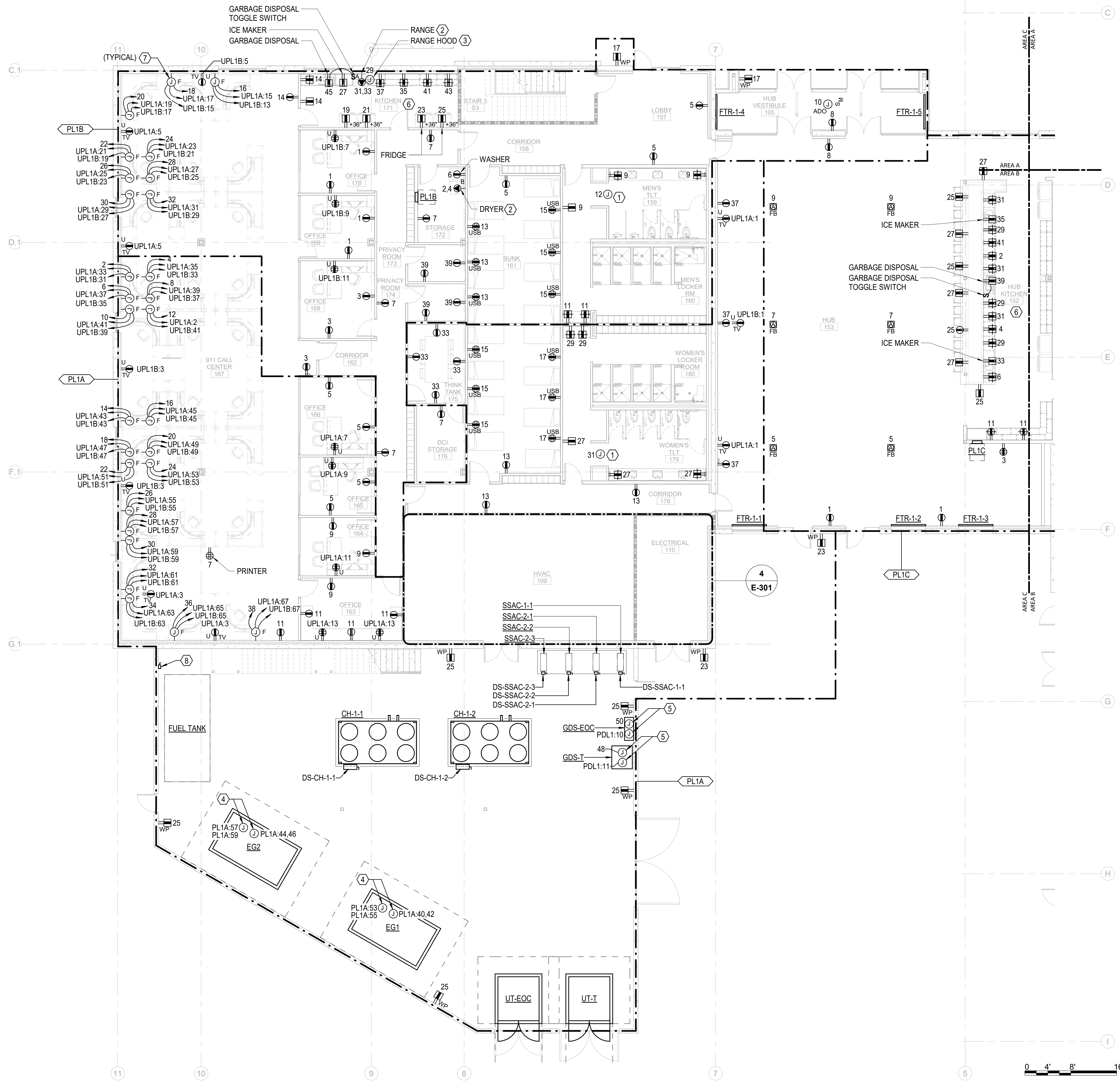
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2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
3. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

**KEY NOTES:**

- ① FOR CONNECTION TO AUTOMATIC FLUSH TOILETS AND FAUCETS 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 (PLUG IN OR HARDWIRED) 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.
- ⑦ PROVIDE POWER TO (2) DOUBLE DUPLEX AND (1) DUPLEX RECEPTACLES LOCATED WITHIN WORKSTATION CASEWORK. COMPUTER CIRCUITS (DOUBLE DUPLEX RECEPTACLES) SHALL BE FED FROM THE UPS PANELS. ALL OTHER MISCELLANEOUS WORKSTATION LOADS SHALL BE FED FROM THE NON-UPS PANEL. COORDINATE ALL CONNECTION REQUIREMENTS AND BRANCH CIRCUIT ROUTING WITHIN THE FURNITURE STATION WITH MANUFACTURER'S SHOP DRAWINGS.
- ⑧ FOR CONNECTION TO GENERATOR FUEL PUMP. COORDINATE LOCATION IN FIELD.

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TRUE NORTH      PROJECT NORTH

$$\frac{1}{8}'' = 1'-0''$$

THE LINE SHOWN ABOVE IS  
A BACKSIGHT OR FORESIGHT OF  
THE SURFACE OF THE GROUND

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E-102A  
ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A

1

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1/8" = 1'-0"

GENERAL NOTES:

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2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
3. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

1. PROVIDE RECESSED 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. 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.



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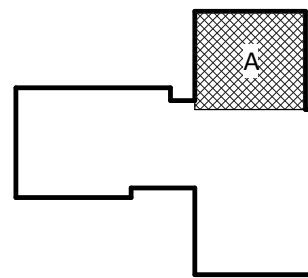
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A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL POWER  
FLOOR PLAN - LEVEL 2  
- AREA A

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-102A

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N&B PROJECT: 19N342  
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BASED ON THE FOLLOWING SIZE  
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ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B

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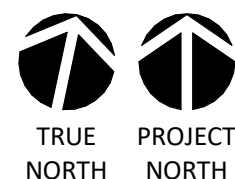
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0' 4' 8' 16'



1/8" = 1'-0"

GENERAL NOTES:

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- ③ FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA, REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.
- ④ COORDINATE MOUNTING HEIGHT OF ISLAND RECEPTACLE WITH ARCHITECT PRIOR TO INSTALLATION.
- ⑤ 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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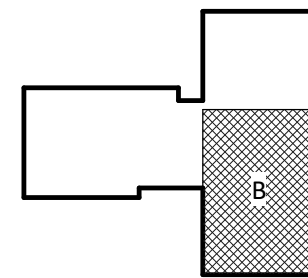
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C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL POWER  
FLOOR PLAN - LEVEL 2  
- AREA B

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-102B

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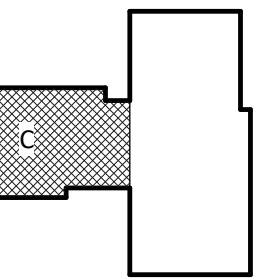
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KEY PLAN:



**SHEET NAME:**  
**ELECTRICAL POWER**  
**FLOOR PLAN - LEVEL 2**  
**- AREA C**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**HEET:**

## E-102C

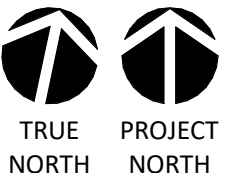
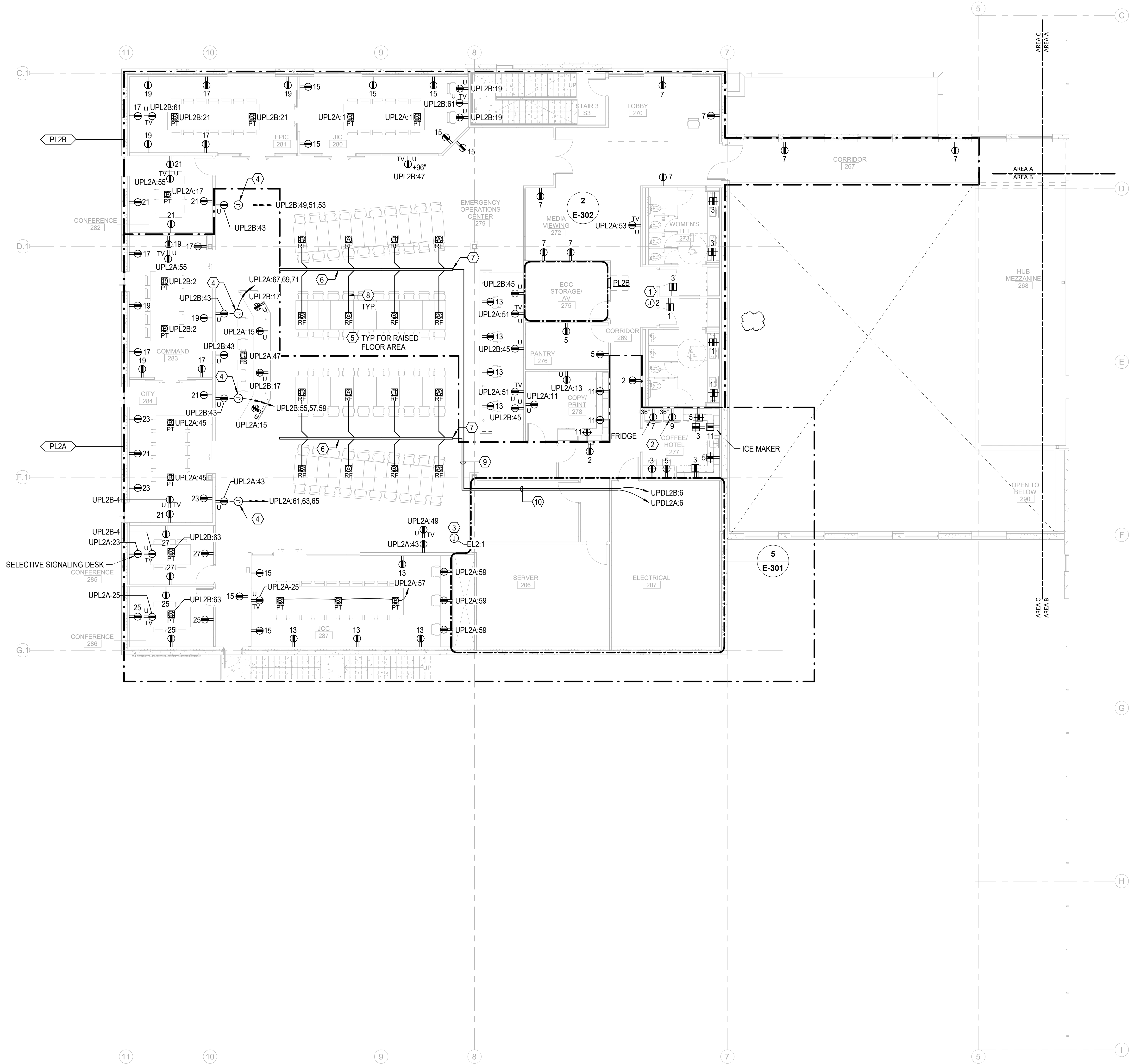
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GENERAL NOTES:

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2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
3. COORDINATE POKE THROUGH LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.
4. COORDINATE RAISED FLOOR BOX LOCATIONS WITH COORDINATED RAISED FLOOR TELECOM AND POWER CABLES AND COMPONENTS. REFER TO ARCHITECTURAL AND TELECOM DRAWINGS FOR DETAILS. ADJUST RAISED FLOOR SYSTEM AND SYSTEM COMPONENTS BASED ON THE FINAL FIELD CONFIGURATIONS OF WALLS AND FURNITURE.

**KEY NOTES:**

- ① FOR CONNECTION TO AUTOMATIC FLUSH TOILETS AND FAUCETS 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 FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.
- ④ FOR CONNECTION TO TV PANEL. COORDINATE THE LOCATIONS AND QUANTITIES OF CONNECTION POINTS AND MOUNTING HEIGHTS WITH THE EQUIPMENT SUBMITTAL.
- ⑤ RAISED FLOOR SYSTEM EQUIVALENT TO GRIDD POWER SYSTEM AS MANUFACTURED BY FREEAXEZ. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXTENT OF THE RAISED FLOOR AREA. PROVIDE ALL SYSTEM POWER COMPONENTS INCLUDING BUS TRACKS, FEED MODULE CABLE ASSEMBLIES AND RAISED FLOOR BOXES. OBTAIN SHOP DRAWINGS AND INSTALL PER MANUFACTURER RECOMMENDATIONS.
- ⑥ 50A, 208/120V, 3 PHASE, 4 WIRE, POWER BUS TRACK AS MANUFACTURED BY GRIDD POWER.
- ⑦ BUS TRACK FEED MODULE CABLE ASSEMBLY AS MANUFACTURED BY FREEAXEZ. ELECTRICAL CONTRACTOR TO ROUTE MC CABLE TO ELECTRICAL PANELBOARD SUPPLYING THE POWER AND MAKE FINAL CONNECTIONS.
- ⑧ RAISED FLOOR BOX WHIP ASSEMBLY WITH BUS TRACK PLUG IN UNIT AS MANUFACTURED BY FREEAXEZ.
- ⑨ FEED MODULE CABLE ASSEMBLY ROUTED IN RAISED FLOOR SYSTEM.
- ⑩ FEED MODULE CABLE ASSEMBLY ROUTED OVERHEAD. COORDINATE ROUTING IN FIELD.



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THE LINE SHOWN ABOVE  
INDICATES THE LOCATION OF  
THE ELECTRICAL POWER  
FLOOR PLAN - LEVEL 3 - AREA A

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1 ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A

1/8" = 1'-0"

GENERAL NOTES:

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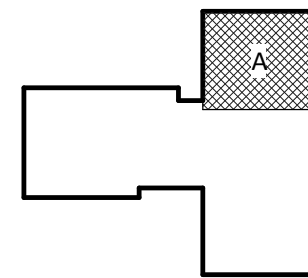
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KEY PLAN:



SHEET NAME:  
ELECTRICAL POWER  
FLOOR PLAN - LEVEL 3  
- AREA A

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

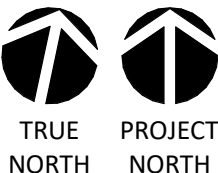
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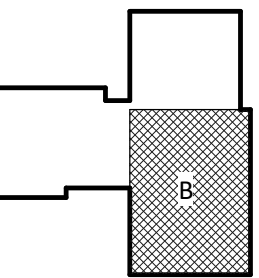
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KEY PLAN:



**SHEET NAME:**  
**ELECTRICAL POWER**  
**FLOOR PLAN - LEVEL 3**  
**- AREA B**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

**E-103B**

## MP SET

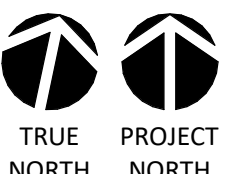
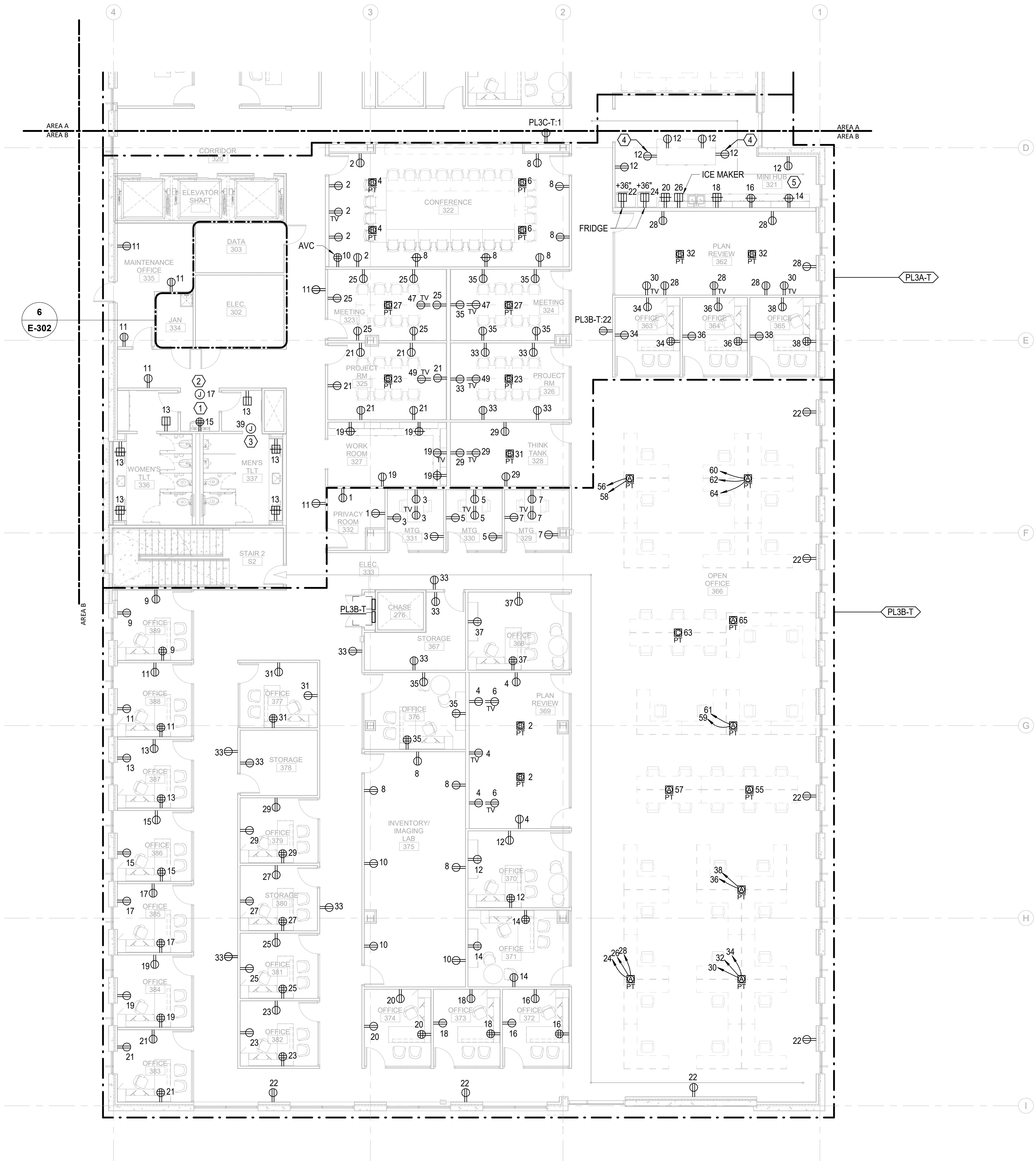
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**$1/8'' = 1'-0''$**

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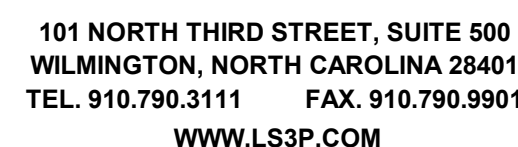
**ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A**

6

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$1/8'' = 1'-0''$

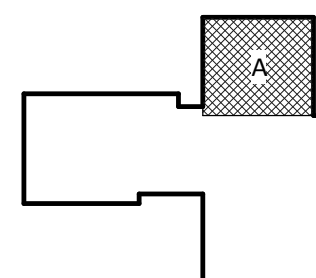
1 FOR CONNECTION TO AUTOMATIC FLUSH TOILETS AND FAUCETS TRANSFORMER POWER. COORDINATE LOCATION CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.



NHC Goverment Center 7702-190810

**S3P PROJECT: 7702-190810**

KEY PLAN:



**SHEET NAME:**  
**ELECTRICAL POWER**  
**FLOOR PLAN - LEVEL 4**  
**- AREA A**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #3

**SHEET:**

# E-104A

## GMP SET

**Newcomb & Boyce**  
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

THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING SIZE  
THIS DRAWING IS FOR INFORMATION ONLY

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E-104B  
ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B

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1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
3. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

- ① FOR CONNECTION TO WATER COOLER/FOUNTAINS. CIRCUIT SHALL BE PROTECTED BY GFCI CIRCUIT BREAKER IN PANEL.
- ② FOR CONNECTION TO AUTOMATIC FLUSH TOILETS AND FAUCETS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- ③ INSTALL RECEPTACLE AT TOP OF ELEVATOR SHAFT.
- ④ FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.
- ⑤ COORDINATE MOUNTING HEIGHT OF ISLAND RECEPTACLE WITH ARCHITECT PRIOR TO INSTALLATION.
- 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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WWW.LS3P.COM

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CONSTRUCTION

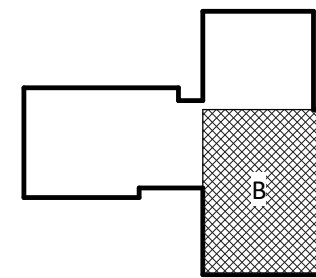
NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL POWER  
FLOOR PLAN - LEVEL 4  
- AREA B

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-104B

GMP SET

Newcomb & Boyd  
CONSULTANTS AND ENGINEERS  
Consulting Engineering Group  
5425 Page Rd  
Suite 215  
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PERMISSION IN  
WRITING FROM  
LS3P

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E-105

ELECTRICAL POWER ROOF - C&S

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GENERAL NOTES:

1. PROVIDE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH SECTION 264510, LIGHTNING PROTECTION SYSTEM.



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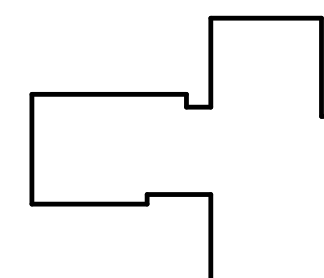
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LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL POWER  
ROOF PLAN - OVERALL

DATE: 2020.12.16  
CURRENT: 2021.01.08  
ADDENDUM #2

SHEET:

E-105

GMP SET

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CONSULTANTS AND ENGINEERS  
Consulting Engineering Group  
5426 Page Rd  
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0 8' 16' 24' TRUE NORTH PROJECT NORTH

3/32" = 1'-0"







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WILMINGTON, NC 28403

WILMINGTON, NC 28403

[illegible]

SHEET NAME:  
ELECTRICAL POWER  
TERMINAL UNIT  
FLOOR PLAN - LEVEL 2

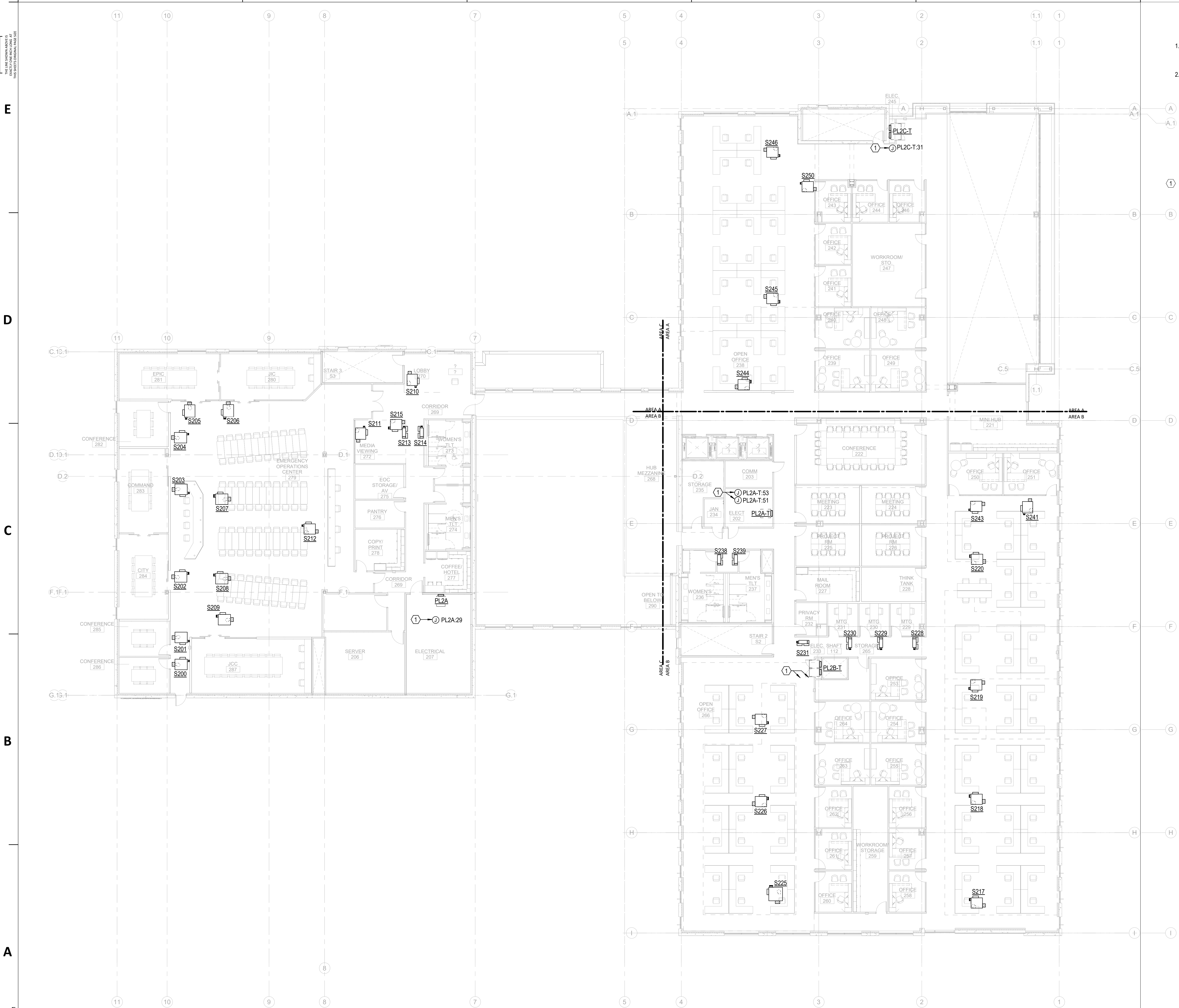
DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

**-112**

## MP SET



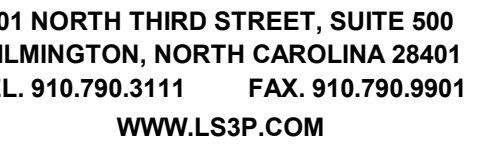
**GENERAL NOTES:**

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. REFER TO MECHANICAL  
DRAWINGS FOR UNIT LOCATIONS AND QUANTITIES.  
COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION  
POINTS WITH DIVISION 23.

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[illegible]

**SHEET NAME:**  
**ELECTRICAL POWER**  
**TERMINAL UNIT**  
**FLOOR PLAN - LEVEL 3**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**MEET:**

**-113**

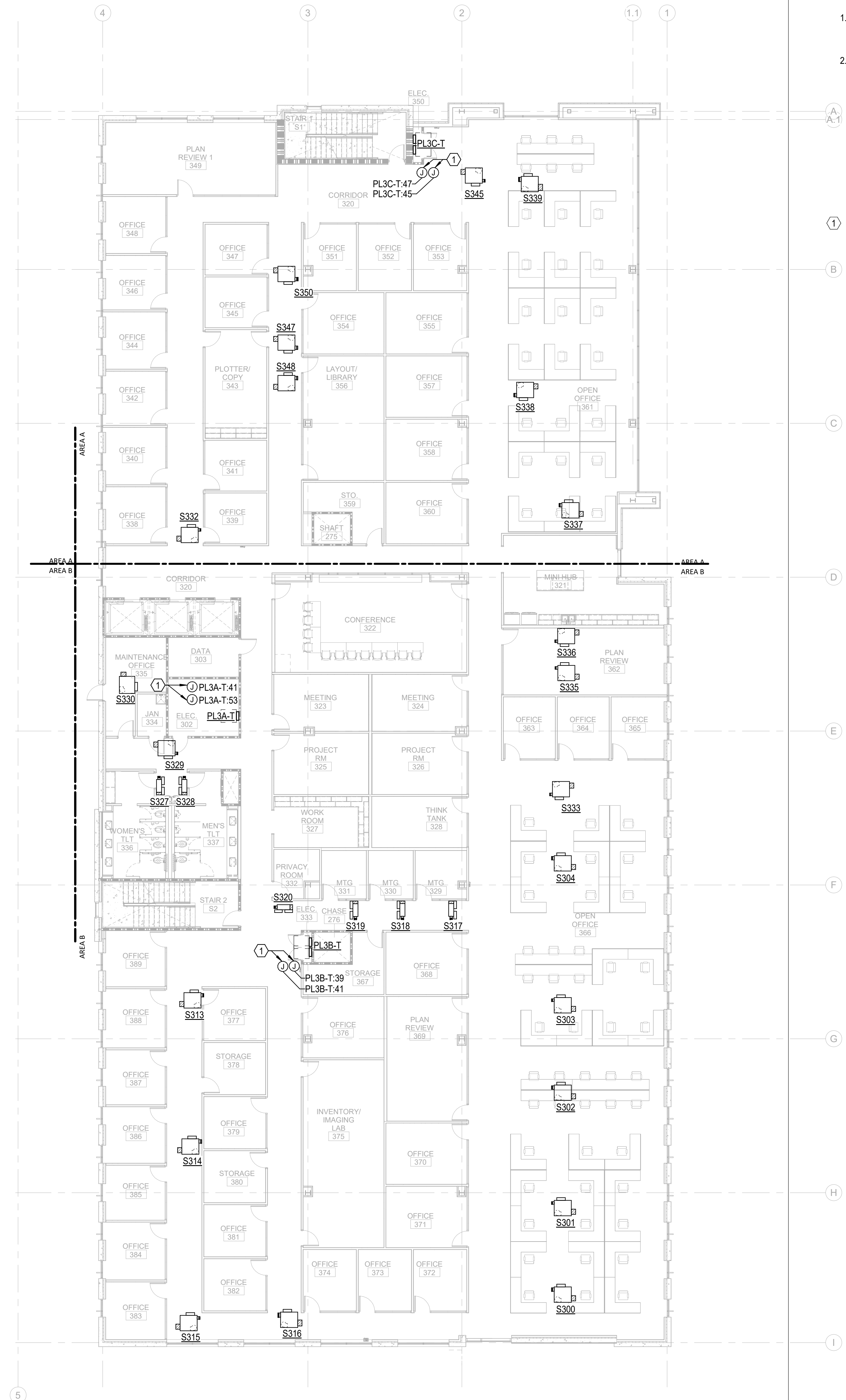
## MP SET

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. REFER TO MECHANICAL  
DRAWINGS FOR UNIT LOCATIONS AND QUANTITIES.  
COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION  
POINTS WITH DIVISION 23.



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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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**SHEET NAME:**  
**ELECTRICAL POWER**  
**TERMINAL UNIT**  
**FLOOR PLAN - LEVEL 4**

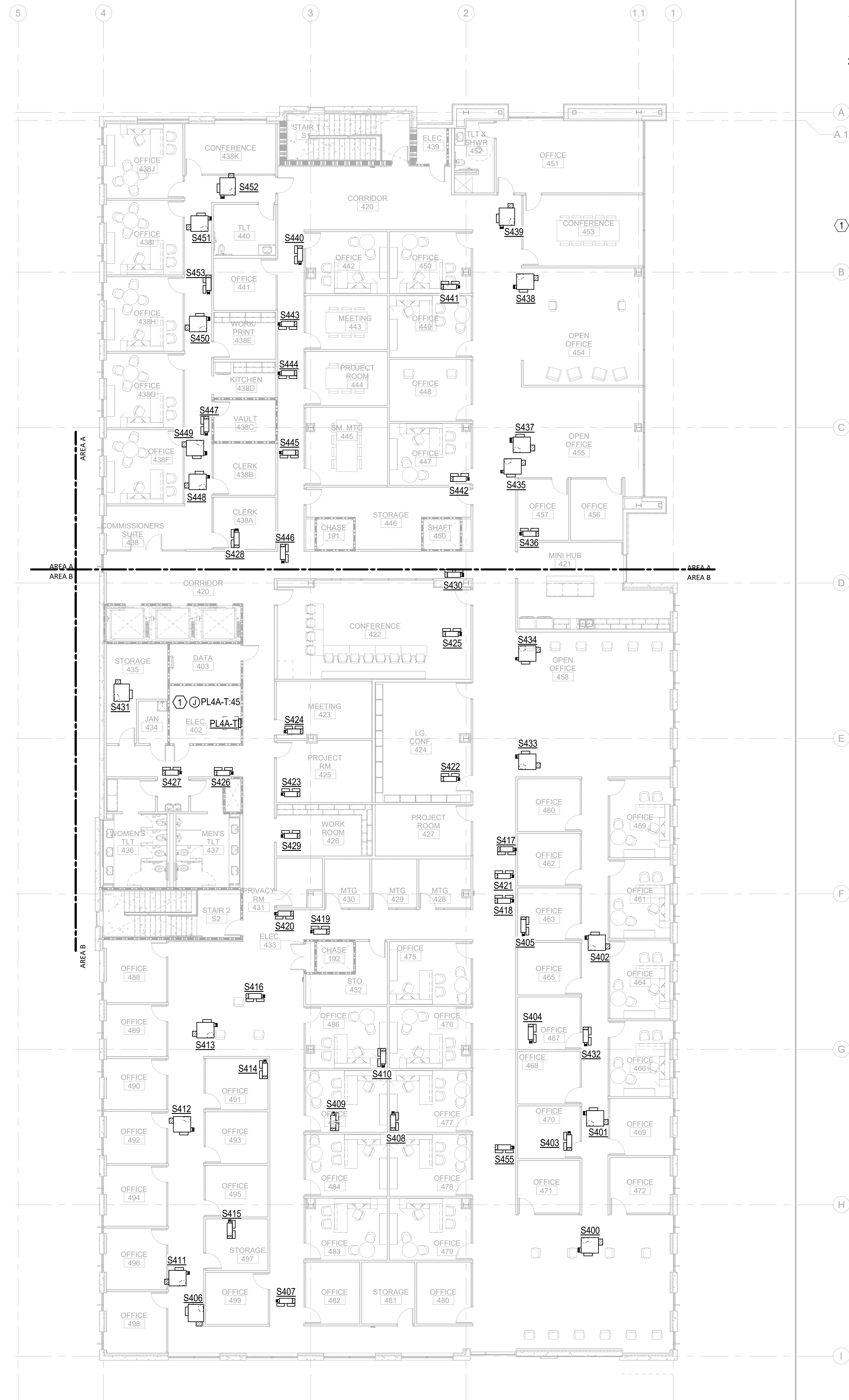
DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**HEET:**

**E-114**

## MP SET



**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. REFER TO MECHANICAL  
DRAWINGS FOR UNIT LOCATIONS AND QUANTITIES.  
B COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION  
POINTS WITH DIVISION 23.

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THE LINE SHOWN ABOVE  
INDICATES THE LOCATION OF  
THE LIGHTING FIXTURES  
AND THE LOCATION OF THE  
LIGHTING CONTROL RELAY PANELS.

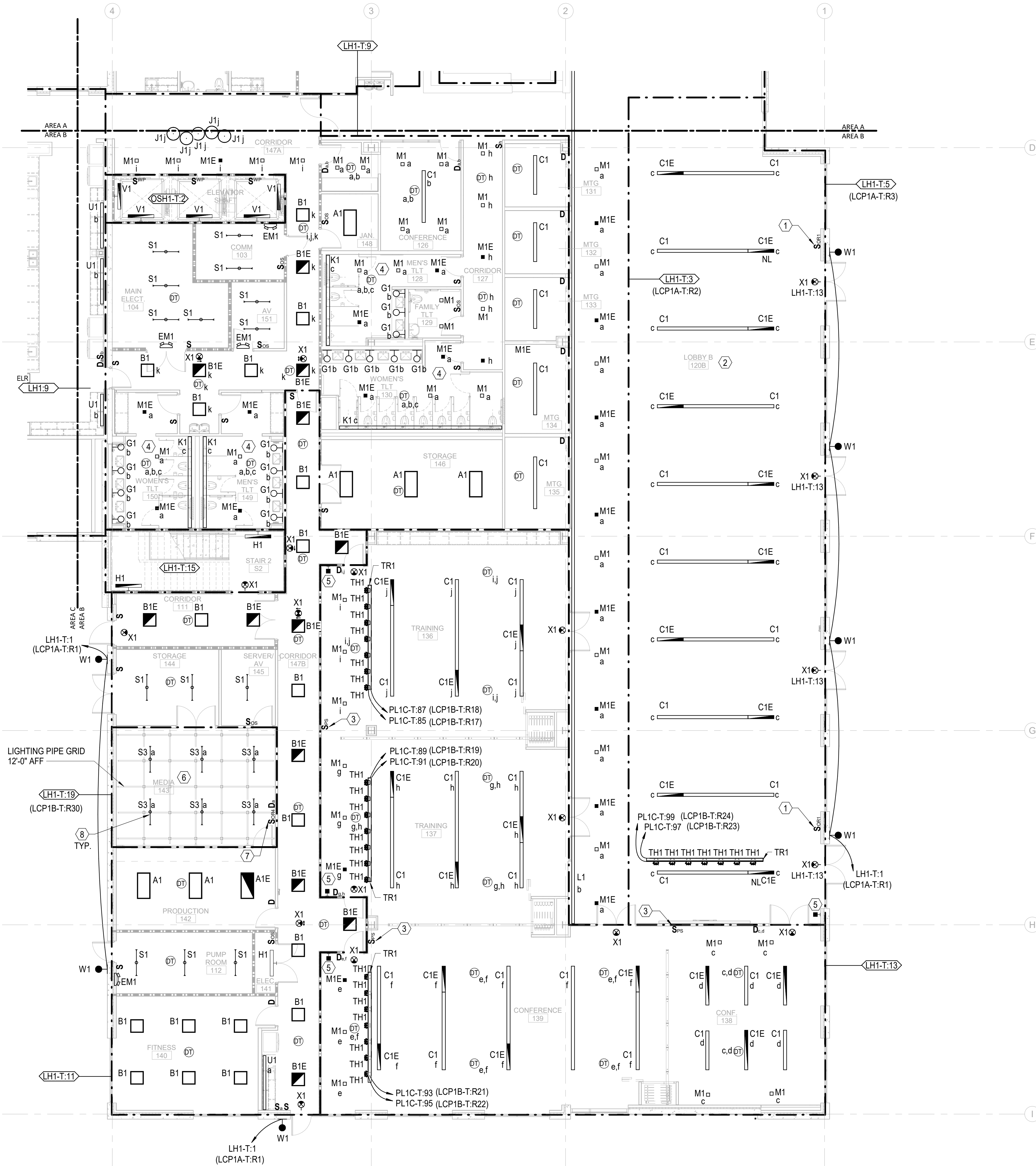
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GENERAL NOTES:

1. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
2. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
3. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR EMERGENCY LIGHTING FIXTURES VIA EMERGENCY LIGHTING INVERTER INV AND LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM.
5. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
6. LIGHTING IN AREAS WHERE THE LOCAL MEANS OF AUTOMATIC SHUT OFF (OCCUPANCY/VACANCY SENSORS) ARE NOT INDICATED SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING RELAY PANEL.
7. REFER TO ELECTRICAL SCHEDULES ON SHEET E-501 FOR LIGHTING CONTROL RELAY PANEL SCHEDULES.

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 PARTITION. 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 EACH PUBLIC RESTROOM SHALL BE CONTROLLED BY A SINGLE ON/OFF SWITCH. PROVIDE SEPARATE DIMMABLE POWER PACKS FOR EACH FIXTURE TYPE IN THE ROOM.
- 5 PROVIDE TOUCHSCREEN EQUIVALENT TO ACUITY FRESCO MASTER CONTROLLER FOR THE DMX CONTROLLED TRACK LIGHTS. MASTER CONTROLLER SHALL PROVIDE CONTROL FOR EACH INDIVIDUALLY ADDRESSABLE LIGHT. SCENE SETTINGS TO BE DETERMINED BY THE END USER.
- 6 ALL LIGHTING FIXTURES SERVING MEDIA ROOM 143 SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN ELECTRICAL CLOSET 141.
- 7 PROVIDE (3) LOW VOLTAGE OVERRIDE SWITCHES EACH WITH 8 ON/OFF BUTTONS FOR LOCAL CONTROL OF SPECIALTY LIGHTING FIXTURES IN MEDIA ROOM 143. EACH ON/OFF BUTTON SHALL CONTROL ONE CEILING MOUNTED RECEPTACLE FEEDING AN INDIVIDUAL PIPE GRID MOUNTED LIGHTING FIXTURE. PROVIDE ONE ADDITIONAL ON/OFF BUTTON FOR MANUAL OVERRIDE AND CONTROL OF ALL LIGHTING FIXTURES IN THE ROOM. PROVIDE (4) SPARE BUTTONS FOR FUTURE SPECIALTY LIGHTING FIXTURES.
- 8 SUSPEND STRIP LIGHTING FROM DECK ABOVE VIA CHAIN HANGER WITH A MINIMUM OF 6" BETWEEN BOTTOM OF WIREGUARD AND TOP OF PIPE GRID. CONTRACTOR TO COORDINATE EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHT WITH PIPE GRID AND OTHER TRADES PRIOR TO INSTALLATION.



CAPE FEAR FD STONEWATER



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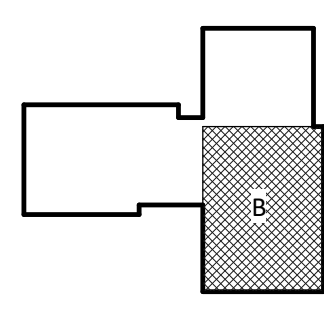
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NHC Government Center 7702-190810

NEW HANOVER COUNTY  
GOVERNMENT CENTER  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL LIGHTING  
FLOOR PLAN - LEVEL 1  
- AREA B

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-201B

GMP SET

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

1  
E-201B  
ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B

1/8" = 1'-0"



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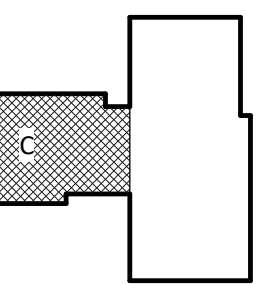
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**GOVERNMENT CENTER**  
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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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KEY PLAN:



**SHEET NAME:**  
**ELECTRICAL LIGHTING**  
**FLOOR PLAN - LEVEL 1**  
**- AREA C**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

# E-201C

## MP SET

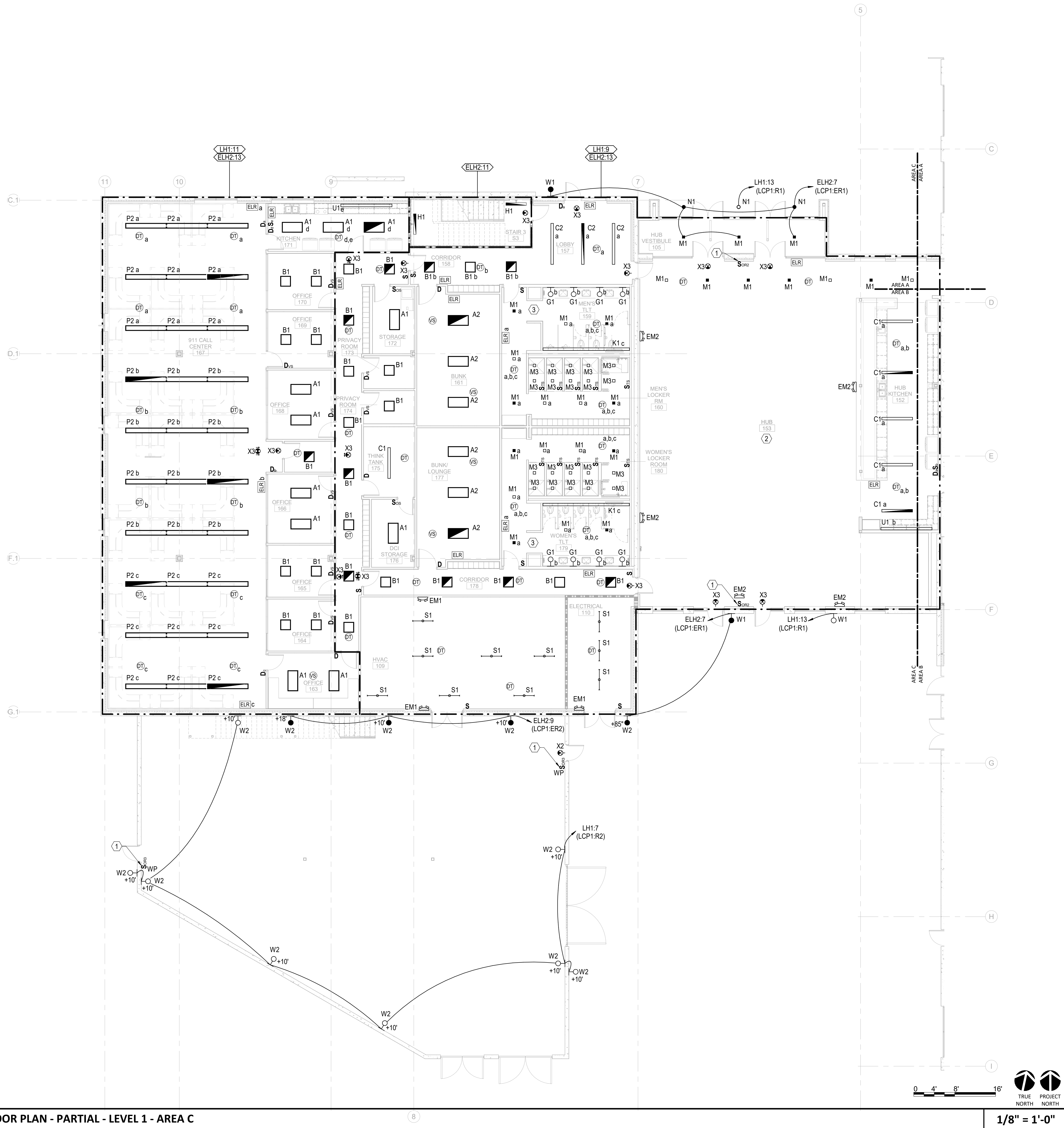
GENERAL NOTES:

1. CIRCUIT NORMAL LIGHTING TO PANEL "LH1", UON. CIRCUIT ALL EMERGENCY LIGHTING INCLUDING EXIT SIGNS AND FIXTURES WITH INTEGRAL BATTERY BACK-UP 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 ELECTRICAL SCHEDULES ON SHEET E-501 FOR LIGHTING CONTROL RELAY PANEL SCHEDULES.

**KEY NOTES:**

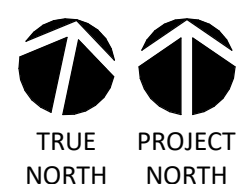
- ① LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERLOAD SWITCH. REFER TO RELAY PANEL SCHEDULE FOR DESCRIPTION OF LIGHTING ZONES CONTROLLED.
- ② ALL LIGHTING FIXTURES SERVING HUB 153 AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN ELECTRICAL 168.
- ③ ALL LIGHTING 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, EXCLUDING THE SHOWER LIGHTS.

**Newcomb & Boyd**  
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**A**

**ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A**



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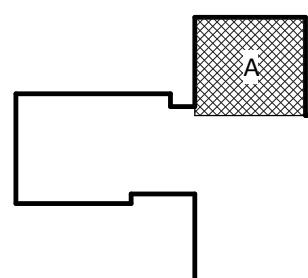
**1/8" = 1'-0"**

1 ALL LIGHTING FIXTURES SERVING LOBBY A 120A AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN MAIN ELECTRICAL ROOM.



**S3P PROJECT: 7702-190810**

KEY PLAN:



**SHEET NAME:**  
**ELECTRICAL LIGHTING**  
**FLOOR PLAN - LEVEL 2**  
**- AREA A**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

## E-202A

**GMP SET**

THE LINE SHOWN ABOVE  
INDICATES THE LOCATION OF  
THE LIGHTING FIXTURES  
AND THE LOCATION OF THE  
LIGHTING FIXTURES

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E-202B  
ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B

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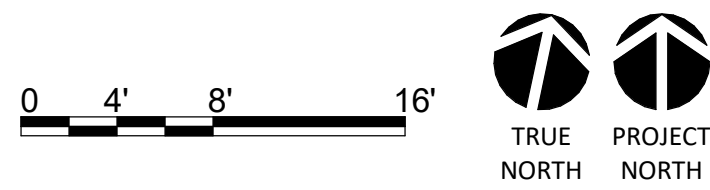
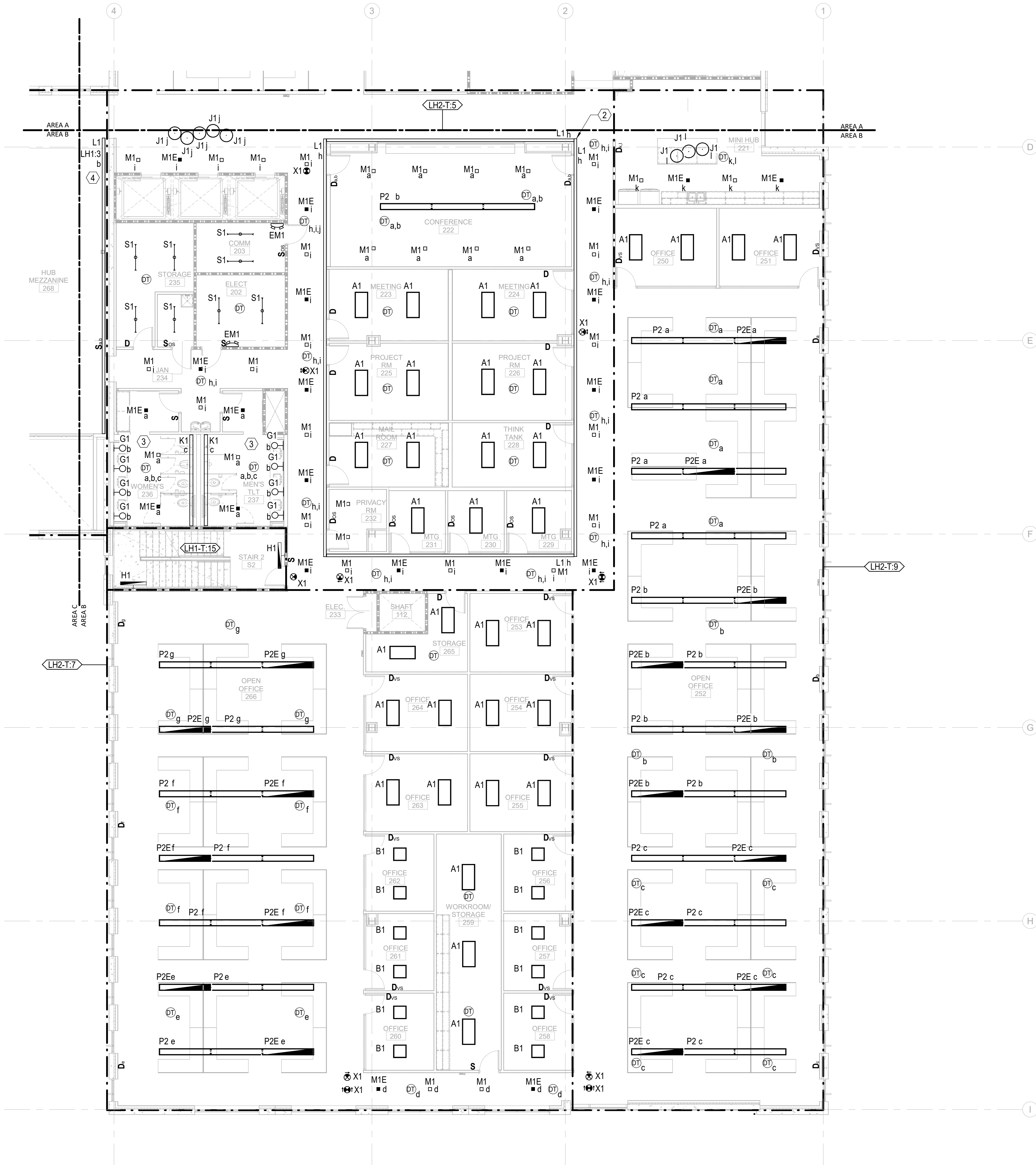
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1/8" = 1'-0"

GENERAL NOTES:

1. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
2. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
3. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
4. LIGHTING IN AREAS WHERE THE LOCAL MEANS OF AUTOMATIC SHUT OFF (OCCUPANCY/VACANCY SENSORS) ARE NOT INDICATED SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING RELAY PANEL.

KEY NOTES:

- ① LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
- ② INSTALL FIXTURE TO CREATE AN INCLUSIVE CONTINUOUS LINE OF LIGHT WITH CORNERS.
- 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.
- ④ HUB MEZZANINE COVE FIXTURE SHALL BE CONTROLLED BY OCCUPANCY SENSORS SHOWN ON SHEET E-202C.



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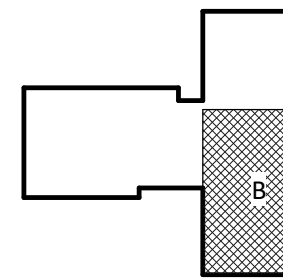
NHC Government Center 7702-190810

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

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C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL LIGHTING  
FLOOR PLAN - LEVEL 2  
- AREA B

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-202B

GMP SET

Newcomb & Boyd  
CONSULTANTS AND ENGINEERS  
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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

THE LINE SHOWN ABOVE  
INDICATES THE LOCATION OF  
THE ELECTRICAL PANELS AND  
THEIR RELATIONSHIP TO THE  
BUILDING SIGNAGE.

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1/7/2021 3:15:41 PM  
E-202C

ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C

1

2

3

4

5

6

1/8" = 1'-0"

GENERAL NOTES:

1. CIRCUIT NORMAL LIGHTING TO PANEL "LH1", UON. CIRCUIT ALL EMERGENCY LIGHTING INCLUDING EXIT SIGNS AND FIXTURES WITH INTEGRAL BATTERY BACKUP 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 LIGHTING 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.
6. REFER TO ELECTRICAL SCHEDULES ON SHEET E-501 FOR LIGHTING CONTROL RELAY PANEL SCHEDULES.

KEY NOTES:

1. PROVIDE POWER TO INTERNALLY ILLUMINATED SIGNAGE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT. ROUTE CIRCUIT VIA LIGHTING CONTROL RELAY 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.
4. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH. REFER TO RELAY PANEL SCHEDULE FOR DESCRIPTION OF LIGHTING ZONES CONTROLLED.



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WWW.LS3P.COM

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CONSTRUCTION

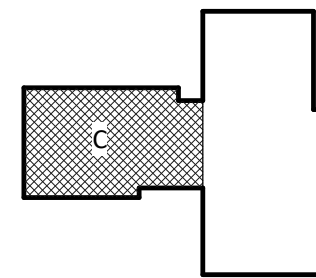
NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL LIGHTING  
FLOOR PLAN - LEVEL 2  
- AREA C

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-202C

GMP SET

Newcomb & Boyd  
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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 A SUMMARY OF THE  
PROJECT'S ELECTRICAL  
SYSTEMS. IT IS NOT  
A COMPLETE LIST OF  
THE PROJECT'S ELECTRICAL  
SYSTEMS.

E

D

C

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1/7/2021 3:15:48 PM  
1  
E-203A

ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A

1

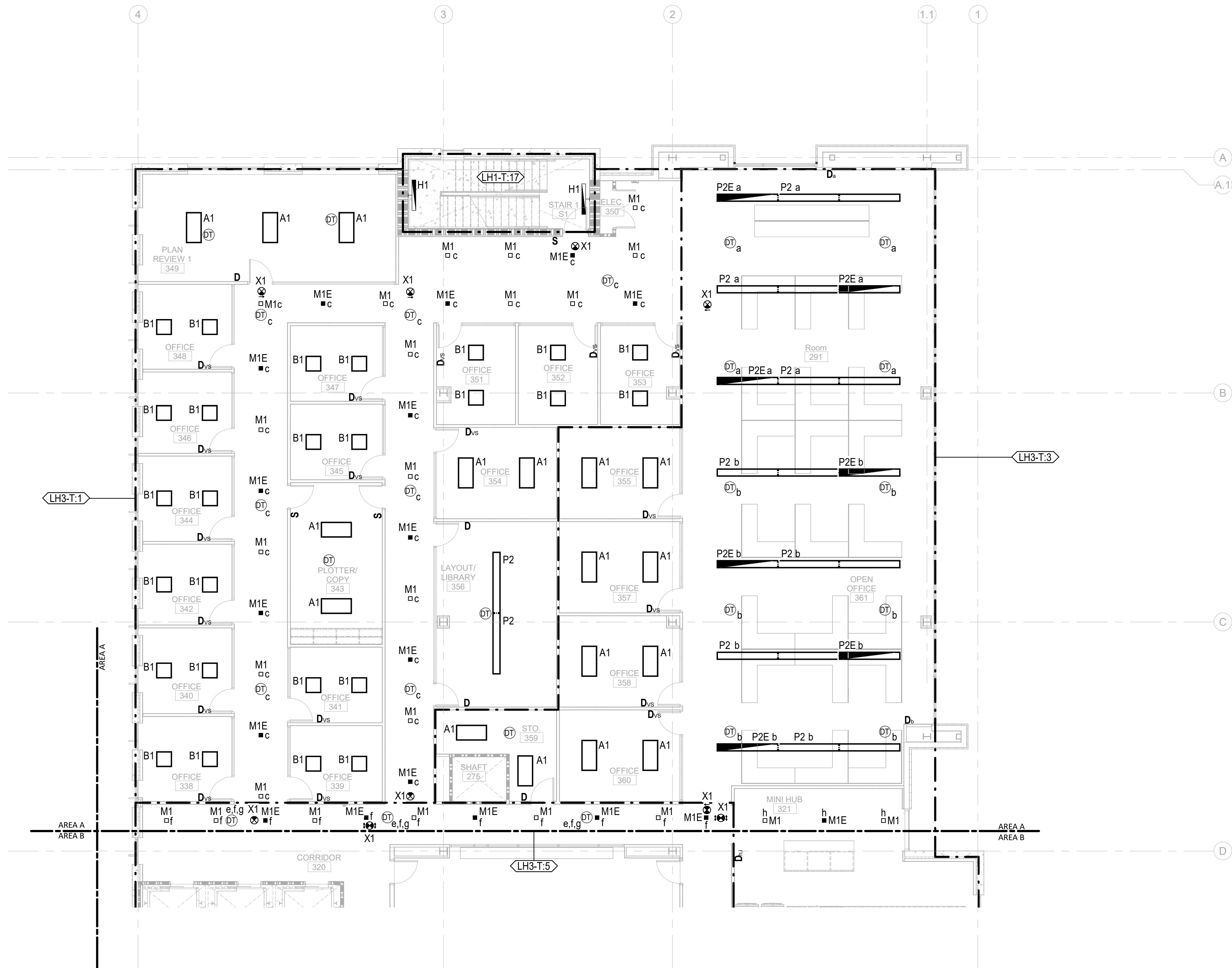
2

3

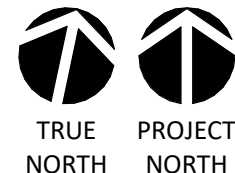
4

5

6



0 4' 8' 16'



1/8" = 1'-0"

GENERAL NOTES:

1. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
2. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
3. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
4. LIGHTING IN AREAS WHERE THE LOCAL MEANS OF AUTOMATIC SHUT OFF (OCCUPANCY/VACANCY SENSORS) ARE NOT INDICATED SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING RELAY PANEL.



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CONSTRUCTION

NHC Government Center 7702-190810

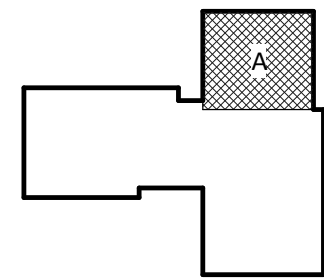
NEW HANOVER COUNTY  
GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL LIGHTING  
FLOOR PLAN - LEVEL 3  
- AREA A

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-203A

GMP SET

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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

THE LINE SHOWN ABOVE  
IS BACK TO THE ORIGINAL  
THICKNESS OF THE WALL

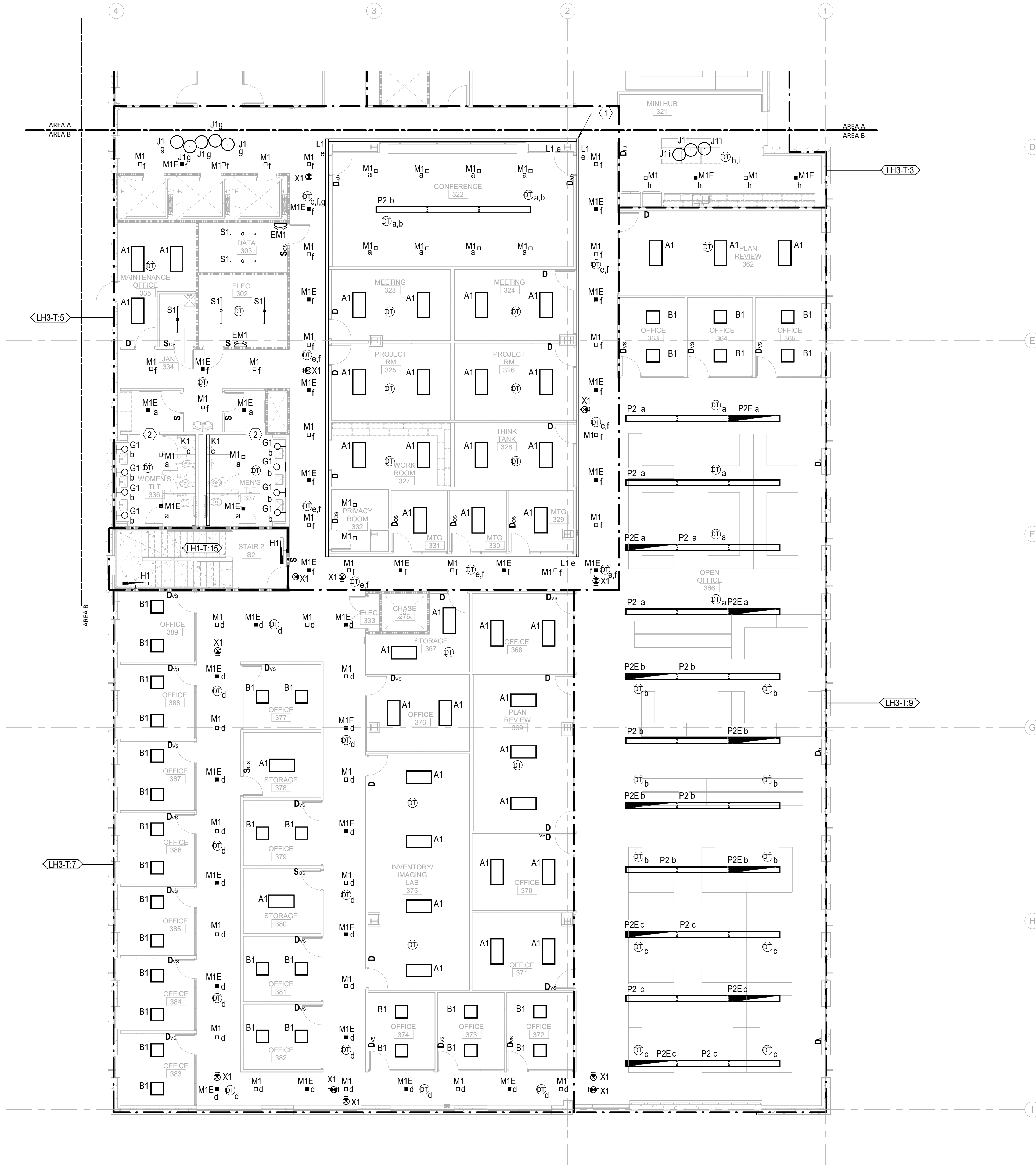
E

D

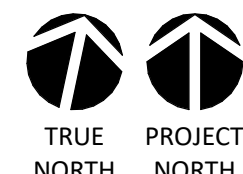
C

B

A



0' 4' 8' 16'



1/8" = 1'-0"

GENERAL NOTES:

1. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
2. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
3. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
4. LIGHTING IN AREAS WHERE THE LOCAL MEANS OF AUTOMATIC SHUT OFF (OCCUPANCY/VACANCY SENSORS) ARE NOT INDICATED SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING RELAY PANEL.

KEY NOTES:

- ① INSTALL FIXTURE TO CREATE AN INCLUSIVE CONTINUOUS LINE OF LIGHT WITH CORNERS.
- ② 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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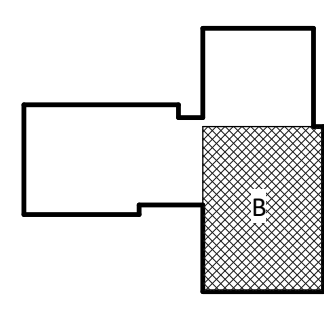
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CONSTRUCTION

NHC Government Center 7702-190810

NEW HANOVER COUNTY  
GOVERNMENT CENTER  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
ELECTRICAL LIGHTING  
FLOOR PLAN - LEVEL 3  
- AREA B

DATE: 2020.12.16  
CURRENT: 2021.01.08  
ADDENDUM #2

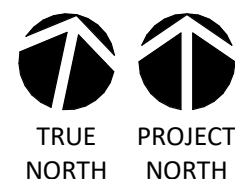
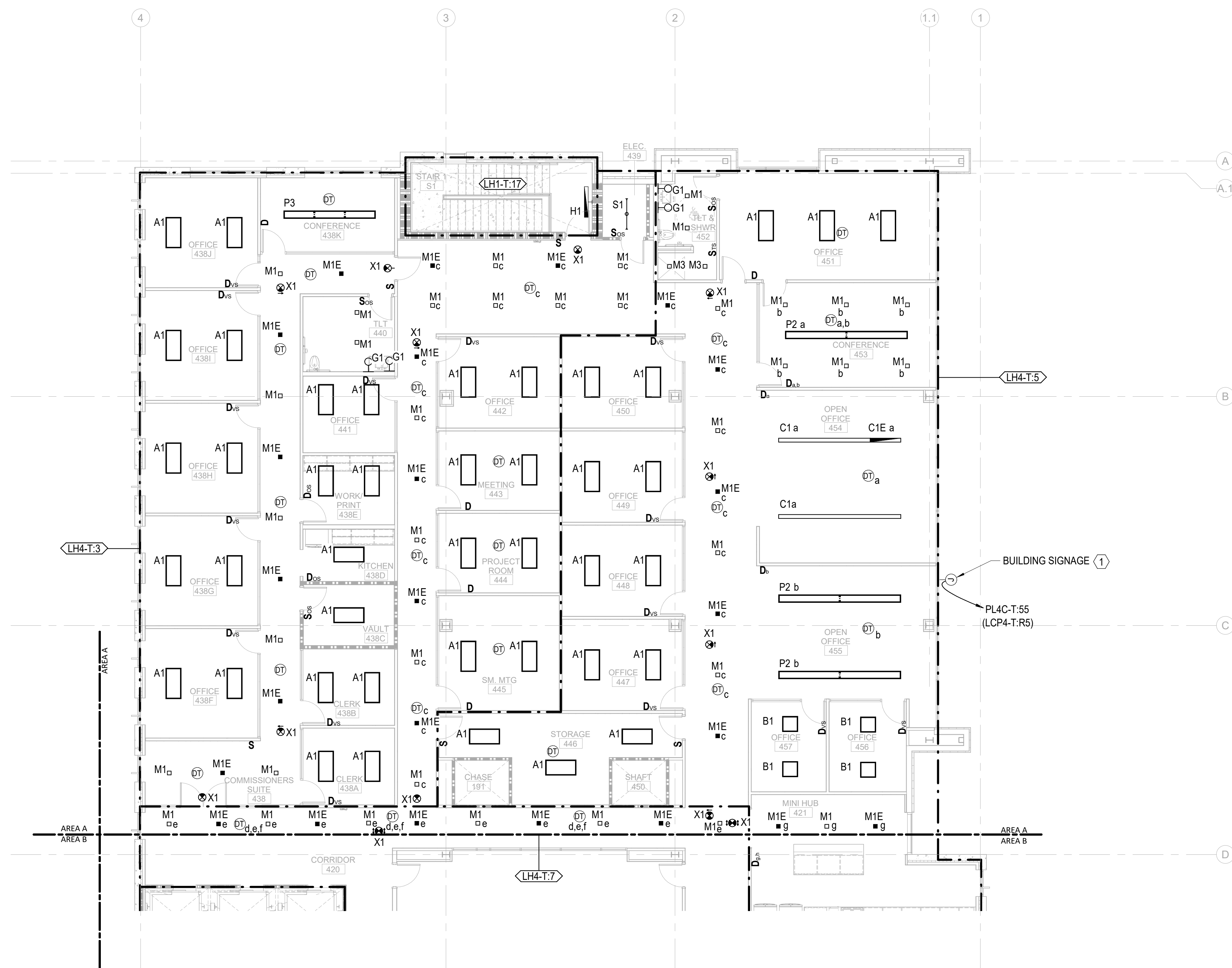
SHEET:

E-203B

GMP SET

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N&B PROJECT: 19N342  
Firm License No. F-0312

**A**


$$1/8'' = 1'-0''$$

**GENERAL NOTES:**

1. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP. UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
2. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
3. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
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5. REFER TO ELECTRICAL SCHEDULES ON SHEET E-501 FOR LIGHTING CONTROL RELAY PANEL SCHEDULES.

**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.



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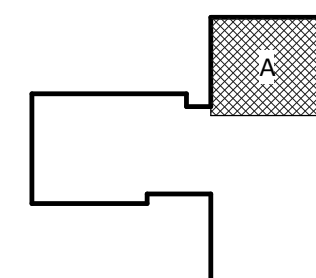
# NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

[illegible]

KEY PLAN:



**SHEET NAME:**  
**ELECTRICAL LIGHTING**  
**FLOOR PLAN - LEVEL 4**  
**- AREA A**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

# E-204A

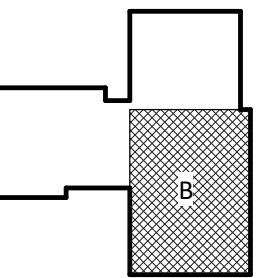
**GMP SET**

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

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

[illegible]

### Y PLAN:



**SHEET NAME:**  
**ELECTRICAL LIGHTING**  
**FLOOR PLAN - LEVEL 4**  
**- AREA B**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**HEET:**

**E-204B**

## COMP SET

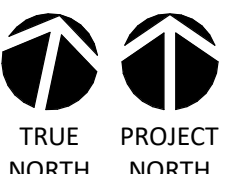
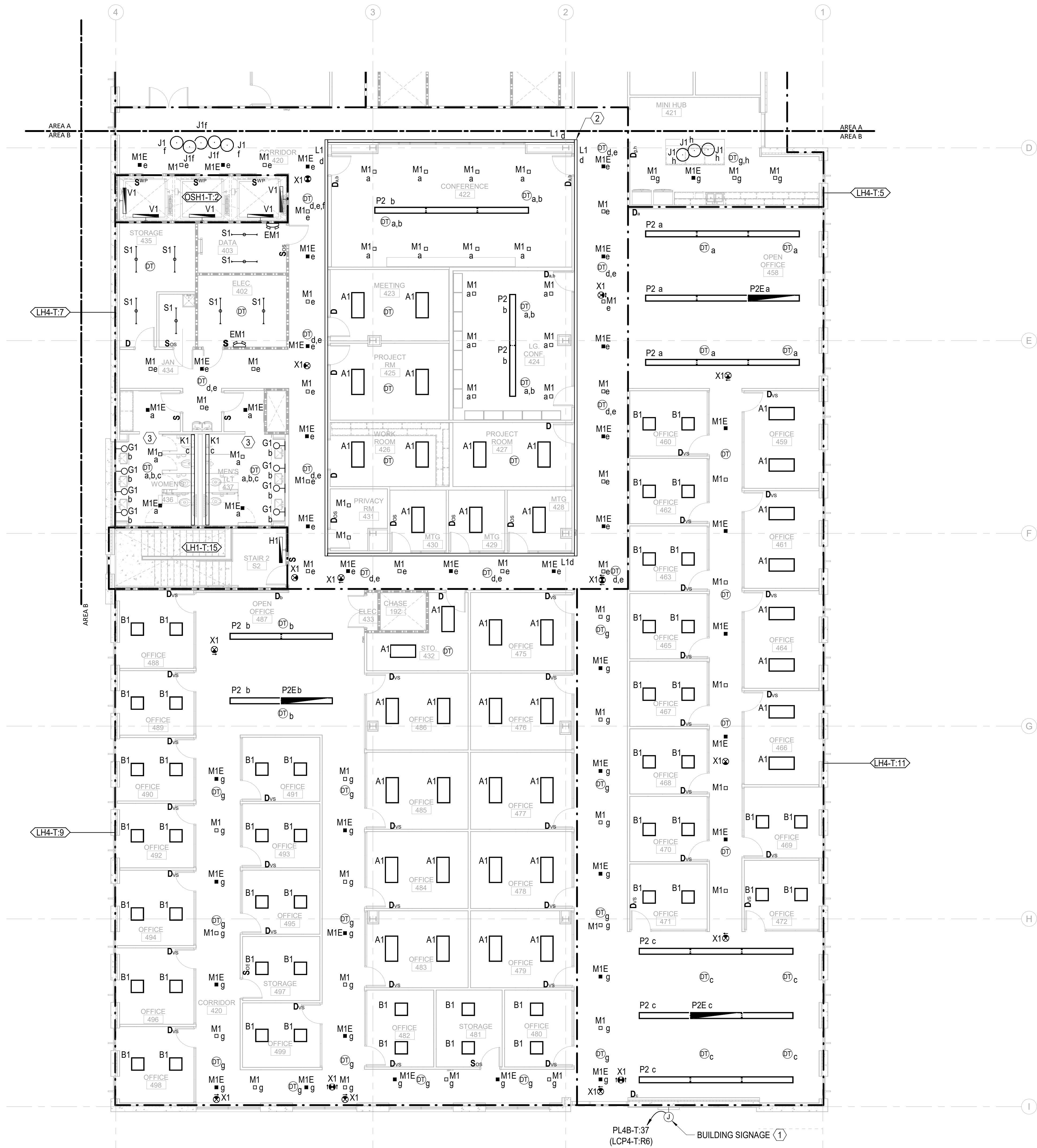
GENERAL NOTES:

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3. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
4. LIGHTING IN AREAS WHERE THE LOCAL MEANS OF AUTOMATIC SHUT OFF (VACANCY SENSORS) ARE NOT INDICATED SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING RELAY PANEL.
5. REFER TO ELECTRICAL SCHEDULES ON SHEET E-501 FOR LIGHTING CONTROL RELAY PANEL SCHEDULES.

**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 4TH FLOOR ELECTRICAL ROOM FOR TIME CLOCK CONTROL.
- ② INSTALL FIXTURE TO CREATE AN INCLUSIVE CONTINUOUS LINE OF LIGHT WITH CORNERS.
- 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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$$1/8'' = 1'-0''$$



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N&B PROJECT: 19N342  
Firm License No. F-0312

THE USER SHALL ADVISE THE DESIGNER OF ANY CHANGES TO THE PROJECT SCOPE OR REQUIREMENTS.

E

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#### 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.
3. REFER TO UPS, GENERATOR AND ATS EQUIPMENT SCHEDULES ON ELECTRICAL SCHEDULES SHEETS.

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

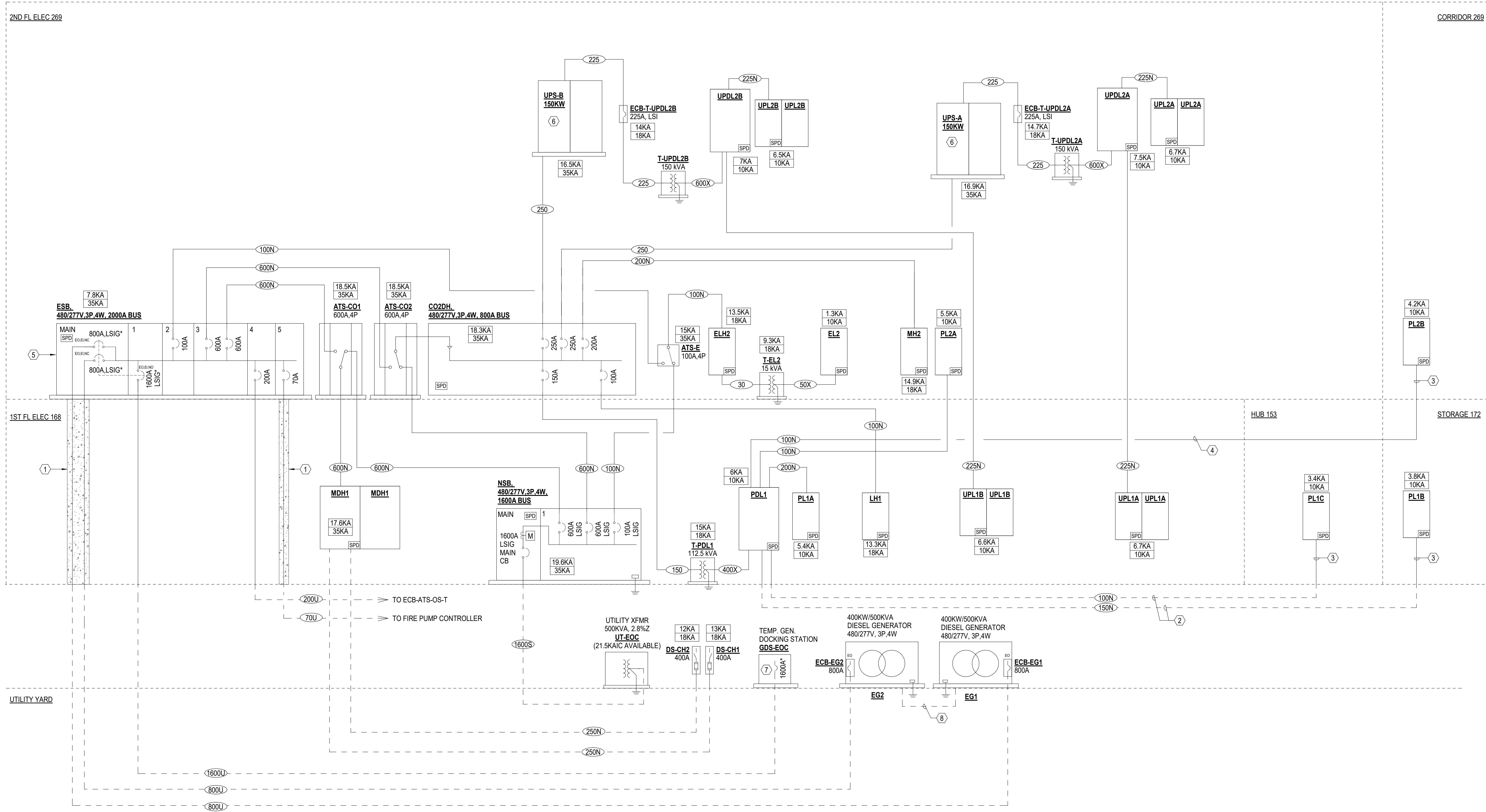
FEEDER AND MAIN BREAKERS 400A TO 600A = SQUARE D M-FRAME WITH ADJUSTABLE LSI.

FEEDER AND MAIN BREAKERS 100A TO 250A = SQUARE D J-FRAME MISSION CRITICAL WITH ADJUSTABLE LSI.

MANUFACTURER SHALL PROVIDE BREAKER FRAME SIZES AND TRIP UNITS AS LISTED ABOVE AND NEEDED TO ACHIEVE SELECTIVE COORDINATION. ANY ADJUSTMENTS TO SCHEDULED BREAKERS AND EQUIPMENT SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

#### 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.
- ⑥ PROVIDE INPUT SIGNALS FROM GENERATOR SETS TO UPS-B AND UPS-A. UPS BATTERY CHARGING CURRENT SHALL BE REDUCED TO A SET VALUE WHILE THE UPS SYSTEM IS CONNECTED TO THE EMERGENCY BACK UP POWER AND UNTIL THE NORMAL POWER IS RESTORED. UPS BATTERY CHARGING RATE SHALL SET BY THE UPS INSTALLER DURING THE START-UP.
- ⑦ PROVIDE CIRCUIT BREAKER WITH LSI FUNCTIONS AND GROUND FAULT ALARM ONLY. PROVIDE ENERGY-REDUCING ARC FLASH MITIGATION SYSTEM.
- ⑧ INSTALL 1" CONDUIT UNDERGROUND FOR CONTROLS WIRING BETWEEN EG1 AND EG2.



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NOT FOR  
CONSTRUCTION

NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
ELECTRICAL RISER  
DIAGRAM EOC

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-401

GMP SET

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



THE USER SHALL ADVISE THE DESIGNER OF ANY CHANGES TO THE PROJECT SCOPE OR REQUIREMENTS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

E

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### 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
70U	3 #4 AND 1 #8 G ~ 4" C & (1) SPARE 4" C
70S	4 #4 ~ 4" C & (1) SPARE 4" C
100N	4 #2 AND 1 #8 G ~ 1.5" C
100X	4 #1 AND 1 #8 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
200U	4 #3/0 AND 1 #6 G ~ 4" C & (1) SPARE 4" 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 kcmil AND 1 #4 G ~ 3" C
250	3 #250 kcmil AND 1 #4 G ~ 3" 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) & (2) SPARE 4" C
1600S	6 SETS (4-300 kcmil ~ 4" C) & (2) SPARE 4" C
3000S	8 SETS (4-500 kcmil ~ 4" C) & (1) 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.

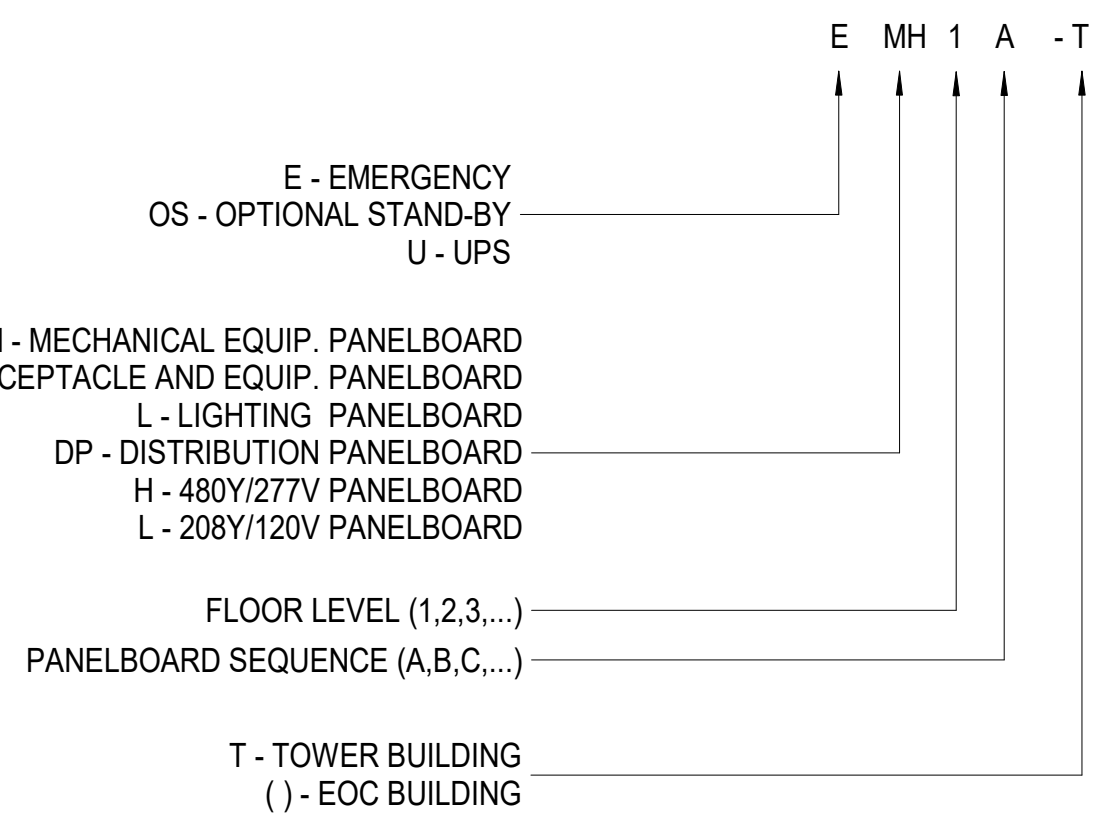
### DRY-TYPE TRANSFORMER FEEDER SCHEDULE

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:

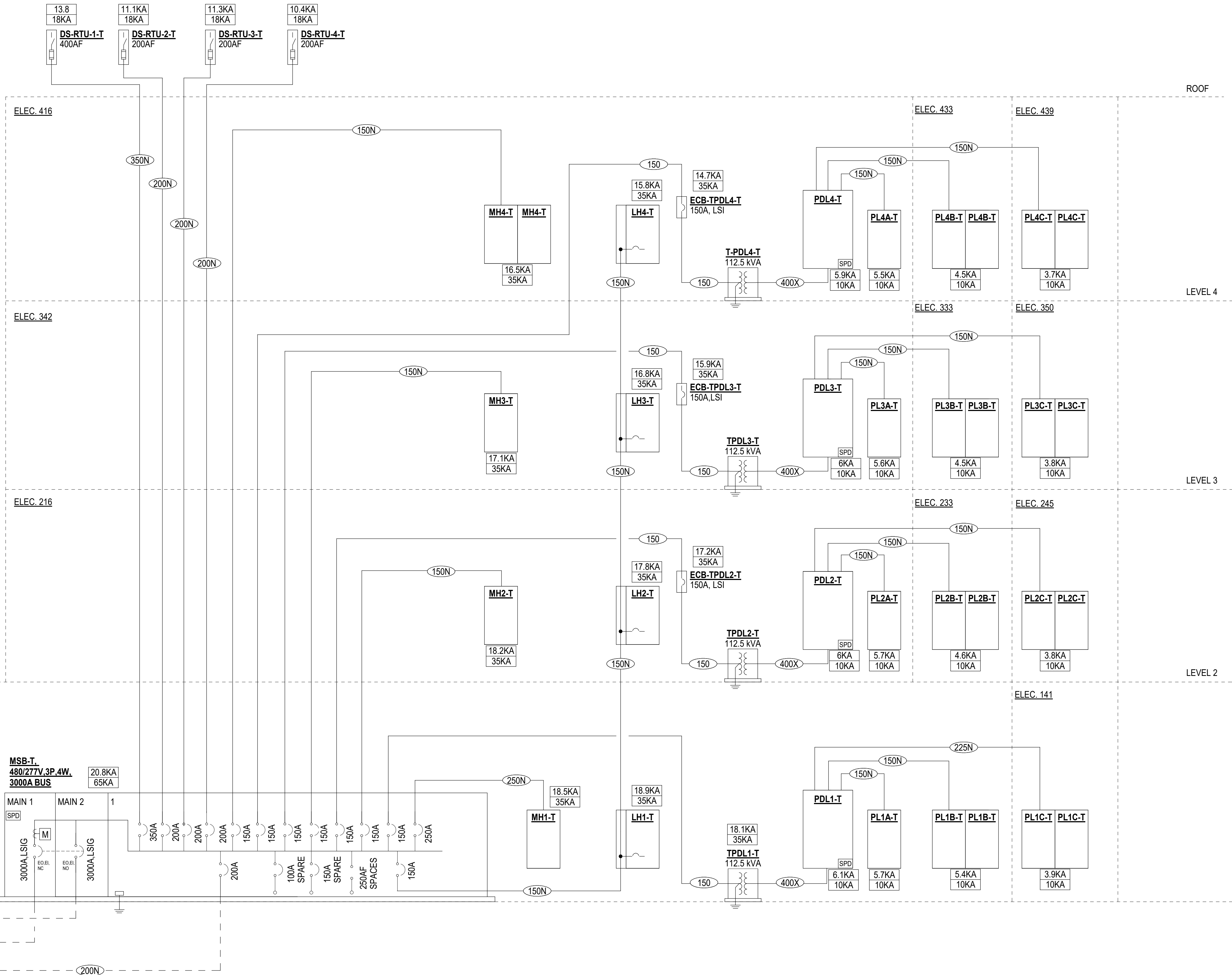
1. TRANSFORMER FEEDER SIZES BASED ON 480 V, 3-PHASE, DELTA PRIMARY AND 208Y/120 V, 3-PHASE, 4-WIRE SECONDARY.
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED IN METALLIC RACEWAY, MINIMUM SIZE PER NFPA 70, ARTICLE 250.
3. REFER TO FEEDER SIZE SCHEDULE FOR CONDUCTORS AND RACEWAYS.

### PANELBOARD DESIGNATION SCHEME: \_\_\_\_\_



#### 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.
- ③ PROVIDE CIRCUIT BREAKER WITH LSI FUNCTIONS AND GROUND FAULT ALARM ONLY. PROVIDE ENERGY-REDUCING ARC FLASH MITIGATION SYSTEM.



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 Government Center 7702-190810

NEW HANOVER COUNTY  
GOVERNMENT CENTER  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI - SCHEMATIC DESIGN
B	2020.10.16	TI - DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
ELECTRICAL RISER  
DIAGRAM TOWER

DATE: 2020.12.16

CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-402

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 TOWER BUILDING RISER DIAGRAM

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GMP SET

1/7/2021 3:16:53 PM

**SHEET NAME:**  
ELECTRICAL  
SCHEDULES

**DATE:** 2020.12.16

**CURRENT:** 2021.01.08

ADDENDUM #2

**SHEET:**

THE USER SHALL ADVISE THE PROJECT OWNER OF ANY DISCREPANCIES OR OMISSIONS IN THE INFORMATION PROVIDED HEREIN.

E

D

C

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GMP SET

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 1											
NAME	DESCRIPTION	LOAD	CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT	STARTER	NOTES
			VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT			
S100	TERMINAL UNIT	7.0 kVA	277 V	1	1	0.3	MH2	1	INTEGRAL		
S101	TERMINAL UNIT	7.0 kVA	277 V	1	1	0.3	MH2	3	INTEGRAL		
S102	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.3	MH2	5	INTEGRAL		
S105	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.3	MH2	7	INTEGRAL		
S108	TERMINAL UNIT	2.5 kVA	277 V	1	0	0	MH2	9	INTEGRAL		
S111	TERMINAL UNIT	2.5 kVA	277 V	1	0	0	MH2	11	INTEGRAL		
S112	TERMINAL UNIT	2.0 kVA	277 V	1	1	0.3	MH2	13	INTEGRAL		
S113	TERMINAL UNIT	8.0 kVA	277 V	1	1	1	MH2	15	INTEGRAL		
S114	TERMINAL UNIT	2.0 kVA	277 V	1	1	0.3	MH2	17	INTEGRAL		
S119	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.5	MH1-T	7	INTEGRAL		
S120	TERMINAL UNIT	2.0 kVA	277 V	1	1	0.125	MH1-T	9	INTEGRAL		
S121	TERMINAL UNIT	1.5 kVA	277 V	1	0	0	MH1-T	11	INTEGRAL		
S122	TERMINAL UNIT	1.5 kVA	277 V	1	0	0	MH1-T	13	INTEGRAL		
S130	TERMINAL UNIT	3.0 kVA	277 V	1	0	0	MH1-T	15	INTEGRAL		
S131	TERMINAL UNIT	2.0 kVA	277 V	1	0	0	MH1-T	17	INTEGRAL		
S132	TERMINAL UNIT	14.0 kVA	480 V	3	2	0.75	MH1-T	19,21,23	INTEGRAL		
S134	TERMINAL UNIT	8.0 kVA	277 V	1	1	0.5	MH1-T	25	INTEGRAL		
S136	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.5	MH1-T	27	INTEGRAL		
S138	TERMINAL UNIT	7.0 kVA	277 V	1	1	1	MH1-T	29	INTEGRAL		
S139	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.3	MH1-T	31	INTEGRAL		
S141	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.5	MH1-T	33	INTEGRAL		
S144	TERMINAL UNIT	2.0 kVA	277 V	1	1	0.3	MH1-T	35	INTEGRAL		
S145	TERMINAL UNIT	6.0 kVA	277 V	1	1	1	MH1-T	37	INTEGRAL		

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 2											
NAME	DESCRIPTION	LOAD	CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT	STARTER	NOTES
			VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT			
S200	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.25	MH2	19	INTEGRAL		
S201	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.25	MH2	21	INTEGRAL		
S202	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.3	MH2	23	INTEGRAL		
S203	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.3	MH2	25	INTEGRAL		
S204	TERMINAL UNIT	2.0 kVA	277 V	1	1	0.25	MH2	27	INTEGRAL		
S205	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.3	MH2	29	INTEGRAL		
S206	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.3	MH2	31	INTEGRAL		
S207	TERMINAL UNIT	7.0 kVA	277 V	1	1	0.3	MH2	33	INTEGRAL		
S208	TERMINAL UNIT	6.0 kVA	277 V	1	1	0.3	MH2	35	INTEGRAL		
S209	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.3	MH2	37	INTEGRAL		
S210	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.3	MH2	39	INTEGRAL		
S211	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.3	MH2	41	INTEGRAL		
S212	TERMINAL UNIT	2.0 kVA	277 V	1	1	0.3	MH2	43	INTEGRAL		
S213	TERMINAL UNIT	0.5 kVA	277 V	1			MH2	45	INTEGRAL		
S214	TERMINAL UNIT	0.5 kVA	277 V	1			MH2	47	INTEGRAL		
S215	TERMINAL UNIT	2.0 kVA	277 V	1	1	0.3	MH2	49	INTEGRAL		
S217	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.5	MH2-T	1	INTEGRAL		
S218	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.5	MH2-T	3	INTEGRAL		
S219	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.5	MH2-T	5	INTEGRAL		
S220	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.5	MH2-T	7	INTEGRAL		
S225	TERMINAL UNIT	5.0 kVA	277 V	1	1	0.5	MH2-T	9	INTEGRAL		
S226	TERMINAL UNIT	4.0 kVA	277 V	1	1	0.5	MH2-T	11	INTEGRAL		
S227	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.5	MH2-T	13	INTEGRAL		
S228	TERMINAL UNIT	0.5 kVA	277 V	1			MH2-T	15	INTEGRAL		
S229	TERMINAL UNIT	0.5 kVA	277 V	1			MH2-T	17	INTEGRAL		
S230	TERMINAL UNIT	0.5 kVA	277 V	1			MH2-T	19	INTEGRAL		
S231	TERMINAL UNIT	0.5 kVA	277 V	1			MH2-T	21	INTEGRAL		
S238	TERMINAL UNIT	1.5 kVA	277 V	1			MH2-T	23	INTEGRAL		
S239	TERMINAL UNIT	1.5 kVA	277 V	1			MH2-T	25	INTEGRAL		
S241	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.3	MH2-T	27	INTEGRAL		
S243	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.3	MH2-T	29	INTEGRAL		
S244	TERMINAL UNIT	3.0 kVA	277 V	1	1	0.5	MH2-T	31	INTEGRAL		
S245	TERMINAL UNIT	4.0 kVA	277 V	1	1	0.5	MH2-T	33	INTEGRAL		
S246	TERMINAL UNIT	2.0 kVA	277 V	1	1	0.3	MH2-T	35	INTEGRAL		
S250	TERMINAL UNIT	1.0 kVA	277 V	1	1	0.3	MH2-T	37	INTEGRAL		

MECHANICAL EQUIPMENT CONNECTION SCHEDULE											
NAME	DESCRIPTION	LOAD	CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT	STARTER	NOTES
			VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT			
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	2		VFD	
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	3		VFD	
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	4		VFD	
AHU-1-1	AIR HANDLING UNIT	0.0 kVA	480 V	3	1	20	MDH1	5		VFD	
AHU-1-1 ELECTRIC HEAT	AIR HANDLING UNIT	48.0 kVA	480 V	3			MDH1	1	100/3/F/1		
CH-1-1	CHILLER	202.5 kVA	480 V	3			MDH1	6	400/3/F/3R		
CH-1-2	CHILLER	0.0 kVA	480 V	3			MDH1	7	400/3/F/3R		
EF-2-1	EXHAUST FAN	0.7 kVA	120 V	1	1	0.25	PL1A	3		FVNR	
EF-R-1	EXHAUST FAN	2.5 kVA	480 V	3	1	1.5	MH4-T	20,22,24		FVNR	
ELEV-1	ELEVATOR	10.8 kVA	480 V	3	1	10	OSH1-T	7,9,11	60/3/F/3R		5,6
ELEV-2	ELEVATOR	10.8 kVA	480 V	3	1	10	OSH1-T	13,15,17	60/3/F/3R		5,6
ELEV-3	ELEVATOR	10.8 kVA	480 V	3	1	10	OSH1-T	19,21,23	60/3/F/3R		5,6
ERU-1-1 (EXHAUST)	ENERGY RECOVERY UNIT	11.6 kVA	480 V	3	1	10	MDH1	7		VFD	
ERU-1-1 (SUPPLY)	ENERGY RECOVERY UNIT	11.6 kVA	480 V	3	1	10	MDH1	6		VFD	
FRP-1-1	GENERATOR FUEL PUMP	0.9 kVA	208 V	3	1	0.5	PL1A	58,60,62	30/3/F/3R		
FTR-1-1	BASEBOARD HEATER	1.5 kVA	277 V	1			MH2	2	INTEGRAL		
FTR-1-2	BASEBOARD HEATER	1.5 kVA	277 V	1			MH2	2	INTEGRAL		
FTR-1-3	BASEBOARD HEATER	1.5 kVA	277 V	1			MH2	4	INTEGRAL		
FTR-1-4	BASEBOARD HEATER	1.5 kVA	277 V	1			MH2	4	INTEGRAL		
FTR-1-5	BASEBOARD HEATER	1.5 kVA	277 V	1			MH2	6	INTEGRAL		
FTR-1-6	BASEBOARD HEATER	1.5 kVA	277 V	1			MH1-T	6	INTEGRAL		
FTR-1-7	BASEBOARD HEATER	1.5 kVA	277 V	1			MH1-T	6	INTEGRAL		
FTR-1-8	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	8	INTEGRAL		
FTR-1-9	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	10	INTEGRAL		
FTR-1-10	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	10	INTEGRAL		
FTR-1-11	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	12	INTEGRAL		
FTR-1-12	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	12	INTEGRAL		
FTR-1-13	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	14	INTEGRAL		
FTR-1-14	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	14	INTEGRAL		
FTR-1-15	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	16	INTEGRAL		
FTR-1-16	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	16	INTEGRAL		
FTR-1-17	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	18	INTEGRAL		
FTR-1-18	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	18	INTEGRAL		
HT-1	HEAT TRACE	1.5 kVA	208 V	2			PL1A	41,43	30/2/F/1		
JP-1	JOCKEY PUMP CONTROLLER	3.8 kVA	480 V	3	1	3	MH1-T	1,3,5	INTEGRAL		
PCHP-1-1	PUMP	11.6 kVA	480 V	3	1	10	MDH1	2		VFD	
PCHP-1-2	PUMP	0.0 kVA	480 V	3	1	10	MDH1	3		VFD	
RCP-1-1	CIRCULATING PUMP	0.8 kVA	208 V	2	1	0.3	PL1A-T	33,35	30/2/F/1		
RCP-1-2	CIRCULATING PUMP	0.9 kVA	120 V	1	1	0.3	PL1A	1	TOGGLE		
RCP-3-1	CIRCULATING PUMP	0.5 kVA	120 V	1	1	0.125	PL3A-T	37	TOGGLE		
RTU-R-1	ROOFTOP UNIT	253.2 kVA	480 V	3	2	15	MSB-T	3	400/3/F/3R		
RTU-R-2	ROOFTOP UNIT	156.9 kVA	480 V	3	2	15	MSB-T	4	400/3/F/3R		
RTU-R-3	ROOFTOP UNIT	156.9 kVA	480 V	3	2	15	MSB-T	5	400/3/F/3R		
RTU-R-4	ROOFTOP UNIT	156.9 kVA	480 V	3	2	15	MSB-T	6	400/3/F/3R		
SCHP-1-1	PUMP	11.6 kVA	480 V	3	1	10	MDH1	4		VFD	
SCHP-1-2	PUMP	0.0 kVA	480 V	3	1	10	MDH1	5		VFD	
SP-1-1	ELEVATOR SUMP PUMP	1.2 kVA	120 V	1	1	0.5	OS1-T	11	30/1/F/3R		
SP-1-2	ELEVATOR SUMP PUMP	2.4 kVA	208 V	3	1	1.5	OS1-T	13,15,17	30/3/F/3R		
SSAC-1-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	6	30/2/F/3R		
SSAC-1-2	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	4	30/2/F/3R		
SSAC-1-3	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	5	30/2/F/3R		
SSAC-1-4	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	6	30/2/F/3R		
SSAC-2-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	7	30/2/F/3R		
SSAC-2-2	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	8	30/2/F/3R		
SSAC-2-3	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	9	30/2/F/3R		
SSAC-2-4	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	7	30/2/F/3R		
SSAC-3-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	8	30/2/F/3R		
SSAC-4-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	9	30/2/F/3R		
UH-1-1	UNIT HEATER	4.0 kVA	277 V	1			MH1-T	2	30/1/F/1		
UH-1-2	UNIT HEATER	4.0 kVA	277 V	1			MH1-T	4	30/1/F/1		
UH-1-3	UNIT HEATER	4.0 kVA	277 V	1			MH2	51	30/1/F/1		
UH-1-4	UNIT HEATER	1.5 kVA	120 V	1			PL1C-T	39	30/1/F/1		
UH-1-5	UNIT HEATER	1.5 kVA	120 V	1			PL1A	39	30/1/F/1		
WBP-1-1	BOOSTER PUMPS	6.4 kVA	208 V	3	2	3	PL1C-T	86,88,90	30/3/F/1		
WH-1-1	WATER HEATER	30.0 kVA	480 V	3			MH1-T	39,41,43	60/3/F/1		
WH-1-2	WATER HEATER	54.0 kVA	480 V	3			MDH1	1	100/3/F/1		
WH-3-1	WATER HEATER	18.0 kVA	480 V	3			MH3-T	2,4,6	30/3/F/1		









THE USER SHALL ADVISE THE  
DESIGNER OF ANY CHANGES  
TO THE INFORMATION PROVIDED  
HEREIN.

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GMP SET

PANEL IS FED FROM 100A/3P  
CB IN PANELBOARD PDL1

PANELBOARD "PL1C" SCHEDULE															
VOLTS: 120/208 Wye				BUS: 225 A				MOUNTING: RECESSED							
PHASES: 3				MAIN: MLO				SECTIONS: 1							
WIRE: 4				SCCR: 10KAIC				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	0.2				2	1	20 A	152 HUB KIT. REC.		
153 HUB REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	3			0.7	0.2		4	1	20 A	152 HUB KIT. REC.		
153 HUB FB.	2#12 & 1#12G ~ 0.75°C	20 A	1	5					0.7	0.2	6	1	20 A	152 HUB KIT. REC.	
153 HUB FB.	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.7	0.0				8	1	20 A	--	SPARE	
153 HUB FB.	2#12 & 1#12G ~ 0.75°C	20 A	1	9			0.7	0.0		10	1	20 A	--	SPARE	
152 HUB KIT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	11					0.5	0.0	12	1	20 A	--	SPARE
152 HUB KIT. FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	13	1.0	0.0				14	1	20 A	--	SPARE	
152 HUB KIT. FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	15			1.0	0.0		16	1	20 A	--	SPARE	
152 HUB KIT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	17					0.4	0.0	18	1	20 A	--	SPARE
152 HUB KIT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.4	0.0				20	1	20 A	--	SPARE	
152 HUB KIT. FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	21			1.0	0.0		22	1	20 A	--	SPARE	
152 HUB KIT. FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	23					1.0	0.0	24	1	20 A	--	SPARE
152 HUB KIT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	25	0.7	0.0				26	1	20 A	--	SPARE	
152 HUB KIT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	27			0.7	0.0		28	1	20 A	--	SPARE	
152 HUB KIT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	29					0.5	0.0	30	1	20 A	--	SPARE
152 HUB KIT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	31	0.5	0.0				32	1	20 A	--	SPARE	
152 HUB ICE MAKER	2#12 & 1#12G ~ 0.75°C	20 A	1	33			0.7	0.0		34	1	20 A	--	SPARE	
152 HUB ICE MAKER	2#12 & 1#12G ~ 0.75°C	20 A	1	35					0.7	0.0	36	1	20 A	--	SPARE
268 HUB MEZZ. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	37	0.4	0.0				38	1	20 A	--	SPARE	
152 HUB DISPOSAL	2#12 & 1#12G ~ 0.75°C	20 A	1	39			1.2	0.0		40	1	20 A	--	SPARE	
152 HUB KIT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	41					0.2	0.0	42	1	20 A	--	SPARE
PHASE TOTALS (kVA):				4.2		6.3		4.2							
CONNECTED AMPERES:				40.9 A		CONNECTED KVA:				14.7 kVA					
CALCULATED AMPERES:				34.3 A		CALCULATED KVA:				12.4 kVA					
NOTES:															

PANEL IS FED FROM 100A/3P  
CB IN PANELBOARD PDL1

PANELBOARD "PL2A" SCHEDULE													
VOLTS: 120/208 Wye				BUS: 225 A				MOUNTING: SURFACE					
PHASES: 3				MAIN: MLO				SECTIONS: 1					
WIRE: 4				SCCR: 10KAIC				LOCATION: ELECTRICAL 207					
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #
207 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75°C	20 A	1	0.5	0.4		2	1	20 A	2#12 & 1#12G ~ 0.75°C	269 CORR. REC.	20 A	1
277 COFFEE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1			0.5	4	1	20 A	2#12 & 1#12G ~ 0.75°C	269 ELECTRICAL REC.	20 A	1
277 COFFEE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1			0.5	6	1	20 A	2#12 & 1#12G ~ 0.75°C	271 SERVER REC	20 A	1
277 COFFEE FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1	7	1.0	0.5	8	1	20 A	2#12 & 1#12G ~ 0.75°C	271 SERVER SEC-2	20 A	1
277 COFFEE FRIDGE	2#12 & 1#12G ~ 0.75°C	20 A	1		1.0	0.5	10	1	20 A	2#12 & 1#12G ~ 0.75°C	271 SERVER BAS	20 A	1
277 COFFEE ICE MAKER	2#12 & 1#12G ~ 0.75°C	20 A	1	11		0.7	12	1	20 A	--	SPARE	20 A	1
287 JCC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.7	0.0	14	1	20 A	--	SPARE	20 A	1
287 JCC REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	15		0.5	16	1	20 A	--	SPARE	20 A	1
283 COMMAND REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	17			18	1	20 A	--	SPARE	20 A	1
283 COMMAND REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.7	0.0	20	1	20 A	--	SPARE	20 A	1
284 CITY REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	21		0.5	22	1	20 A	--	SPARE	20 A	1
284 CITY REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	23			24	1	20 A	--	SPARE	20 A	1
286 CONF. REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	25	0.7	0.0	26	1	20 A	--	SPARE	20 A	1
286 CONF. REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	27		0.5	28	1	20 A	--	SPARE	20 A	1
S115-18	2#12 & 1#12G ~ 0.75°C	20 A	1	29			30	1	20 A	--	SPARE	20 A	1
271 CLEAN AGENT PNL	2#12 & 1#12G ~ 0.75°C	20 A	1	31	0.5	0.0	32	1	20 A	--	SPARE	20 A	1
SPARE	--	20 A	1	33		0.0	34	1	20 A	--	SPARE	20 A	1
SPARE	--	20 A	1	35			36	1	20 A	--	SPARE	20 A	1
SPARE	--	20 A	1	37	0.0	0.0	38	1	20 A	--	SPARE	20 A	1
SPARE	--	20 A	1	39		0.0	40	1	20 A	--	SPARE	20 A	1
SPARE	--	20 A	1	41			42	1	20 A	--	SPARE	20 A	1
PHASE TOTALS (kVA):				5.0	4.0	4.0							
CONNECTED AMPERES:				36.3 A	CONNECTED KVA:				13.1 kVA				
CALCULATED AMPERES:				35.9 A	CALCULATED KVA:				12.9 kVA				
NOTES:													

PANEL IS FED FROM 100A/3P  
CB IN PANELBOARD PDL1

PANELBOARD "PL2B" SCHEDULE													
VOLTS: 120/208 Wye				BUS: 225 A				MOUNTING: RECESSED					
PHASES: 3				MAIN: MLO				SECTIONS: 1					
WIRE: 4				SCCR: 10KAIC				LOCATION: LOBBY 270					
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	0.5	0.5		2	1	20 A	273, 274 TLT. AUTO FIX.			
273 TLT. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1		0.5	0.0	4	1	20 A	SPARE			
276 PANTRY REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	5			6	1	20 A	SPARE			
267, 270 LOBBY REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	7	1.4	0.0	8	1	20 A	SPARE			
275 EOC STOR. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	9		0.4	0.0	10	1	20 A	SPARE		
276 COPY/PRINT REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	11			0.5	0.0	12	1	20 A	SPARE	
279 EOC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.7	0.0			14	1	20 A	SPARE	
280 JIC REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	15		1.1	0.0		16	1	20 A	SPARE	
281 EPIC REC. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	17			0.5	0.0	18	1	20 A	SPARE	
281 EPIC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.5	0.0			20	1	20 A	SPARE	
282 CONF. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	21		0.7	0.0		22	1	20 A	SPARE	
SPARE	--	20 A	1	23			0.0	0.0	24	1	20 A	SPARE	
SPARE	--	20 A	1	25	0.0	0.0			26	1	20 A	SPARE	
SPARE	--	20 A	1	27		0.0	0.0		28	1	20 A	SPARE	
SPARE	--	20 A	1	29			0.0	0.0	30	1	20 A	SPARE	
SPARE	--	20 A	1	31	0.0	0.0			32	1	20 A	SPARE	
SPARE	--	20 A	1	33		0.0	0.0		34	1	20 A	SPARE	
SPARE	--	20 A	1	35			0.0	0.0	36	1	20 A	SPARE	
SPARE	--	20 A	1	37	0.0	0.0			38	1	20 A	SPARE	
SPARE	--	20 A	1	39		0.0	0.0		40	1	20 A	SPARE	
SPARE	--	20 A	1	41			0.0	0.0	42	1	20 A	SPARE	
PHASE TOTALS (kVA):				3.7	2.7	1.4							
CONNECTED AMPERES:				21.9 A	CONNECTED KVA:				7.9 kVA				
CALCULATED AMPERES:				21.9 A	CALCULATED KVA:				7.9 kVA				
NOTES:													

PANEL IS FED FROM 150A/3P  
CB IN PANELBOARD PDL1

PANELBOARD "PL1A" SCHEDULE													
VOLTS: 120/208 Wye				BUS: 225 A				MOUNTING: SURFACE					
PHASES: 3				MAIN: MLO				SECTIONS:					
WIRE: 4				SCCR: 10KAIC				LOCATION: ELECTRICAL 110					
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION			
RCPT 12.0 (5.25 HP)	2#12 & 1#12G - 0.75"C	20 A	1	1			1	20 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK			
EF-2#1 (0.25 HP)	2#12 & 1#12G - 0.75"C	15 A	3	0.9	1.2		2	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK			
165.166 OFFICE REC.	2#12 & 1#12G - 0.75"C	20 A	1	5		0.7	1.2	6	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
9111 CALL CNTR PRINT	2#12 & 1#12G - 0.75"C	20 A	1	7	1.2	1.2		8	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
163 OFFICE REC.	2#12 & 1#12G - 0.75"C	20 A	1	9		0.5	1.2	10	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
163 OFFICE REC.	2#12 & 1#12G - 0.75"C	20 A	1	11			0.7	1.2	12	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK	
162.178.177 BUNK REC.	2#12 & 1#12G - 0.75"C	20 A	1	13	0.5	1.2		14	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
177 BUNK/LOUNGE REC.	2#12 & 1#12G - 0.75"C	20 A	1	15		1.1	1.2	16	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
177 BUNK/LOUNGE REC.	2#12 & 1#12G - 0.75"C	20 A	1	17			1.1	1.2	18	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK	
161 HVAC REC.	2#12 & 1#12G - 0.75"C	20 A	1	19	0.5	1.2		20	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
168 ELECTRICAL REC.	2#12 & 1#12G - 0.75"C	20 A	1	21		0.2	1.2	22	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
EXTERIOR REC.	2#12 & 1#12G - 0.75"C	20 A	1	23			0.4	1.2	24	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK	
UTILITY YARD REC.	2#10 & 1#10G - 1"C	20 A	1	25	0.9	1.2		26	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
179 TLT, 180 LOCK REC.	2#12 & 1#12G - 0.75"C	20 A	1	27		0.5	1.2	28	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
179 TLT, 180 LOCK REC.	2#12 & 1#12G - 0.75"C	20 A	1	29			0.4	1.2	30	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK	
179 TLT, AUTO LOCK	2#12 & 1#12G - 0.75"C	20 A	1	31	0.5	1.2		32	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
175 THINK TANK REC.	2#12 & 1#12G - 0.75"C	20 A	1	33		1.5	1.2	34	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
110 MISC. MECH PWR.	2#12 & 1#12G - 0.75"C	20 A	1	35		0.5	1.2	36	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
153 HUB REC.	2#12 & 1#12G - 0.75"C	20 A	1	37	0.5	1.2		38	1 A	2#12 & 1#12G - 0.75"C	167 9111 CALL CNL DESK		
UH-15	2#12 & 1#12G - 0.75"C	20 A	1	39		1.5	0.8	40					
								2	20 A	2#10 & 1#10G - 1"C	EQ1 JACKET WATER HEATER		
HEAT RACK (NOTE 1)	2#10 & 1#10G - 1"C	30 A	2	41	0.8	0.8		44					
								4	20 A	2#10 & 1#10G - 1"C	EQ2 JACKET WATER HEATER		
S103-04.06	2#12 & 1#12G - 0.75"C	20 A	1	45		0.6	0.8	46					
S107-08-10	2#12 & 1#12G - 0.75"C	20 A	1	47			0.6	0.5	48	1 A	2#10 & 1#10G - 1"C	G03-1 BATT. CHAR.	
BFP HOT BOX	2#8 & 1#10G - 1"C	20 A	48	0.5	0.5			50	1 A	2#10 & 1#10G - 1"C	G05-EC2 BATT. CHAR.		
BFP HOT BOX	2#8 & 1#10G - 1"C	20 A	1	51		0.5	0.5	52	1 A	2#12 & 1#12G - 0.75"C	161 HVAC BAS PNL.		
EQ1 LIGHTS, REC.	2#10 & 1#10G - 1"C	20 A	1	53		0.5	0.5	54	1 A	2#12 & 1#12G - 0.75"C	161 HVAC BAS PNL.		
EQ1 BATT. CHAR.	2#10 & 1#10G - 1"C	20 A	1	55	0.5	0.5		56	1 A	2#12 & 1#12G - 0.75"C	161 HVAC BAS PNL.		
EQ2 LIGHTS, REC.	2#10 & 1#10G - 1"C	20 A	1	57		0.5	0.3	58					
EQ2 BATT. CHAR.	2#10 & 1#10G - 1"C	20 A	1	59			0.5	0.3	60	15 A	3#10 & 1#10G - 1"C	FRP-1-1 (0.5 HP)	
PANEL LCP1	2#12 & 1#12G - 0.75"C	20 A	1	61	0.5	0.3		62					
109 FS DAMPER	2#12 & 1#12G - 0.75"C	20 A	1	63		0.2	0.0	64	1 A	20 A	--	SPARE	
BUILDING SIGN NORTH	2#12 & 1#12G - 0.75"C	20 A	1	65			0.5	0.0	66	1 A	20 A	--	SPARE
BUILDING SIGN SOUTH	2#12 & 1#12G - 0.75"C	20 A	1	67	0.5	0.0		68	1 A	20 A	--	SPARE	
SPARE	--	20 A	1	69		0.0	0.0	70	1 A	20 A	--	SPARE	
SPARE	--	20 A	1	71			0.0	0.0	72	1 A	20 A	--	SPARE
SPARE	--	20 A	1	73	0.0	0.0		74	1 A	20 A	--	SPARE	
SPARE	--	20 A	1	75				76	1 A	20 A	--	SPARE	
SPARE	--	20 A	1	77			0.0	0.0	78	1 A	20 A	--	SPARE
SPARE	--	20 A	1	79	0.0	0.0		80	1 A	20 A	--	SPARE	
SPARE	--	20 A	1	81		0.0	0.0	82	1 A	20 A	--	SPARE	
SPARE	--	20 A	1	83			0.0	0.0	84	1 A	20 A	--	SPARE
PHASE TOTALS (KVA):				18.6	17.6	16.1							
CONNECTED AMPERES: 144.5 A				CONNECTED KVA: 52.3 KVA									
CALCULATED AMPERES: 144.2 A				CALCULATED KVA: 52.0 KVA									
NOTES:													
1. PROVIDE GPFE TYPE CIRCUIT BREAKER.													

THE USER SHALL MAINTAIN A RECORD OF ALL CHANGES TO THIS DOCUMENT AND THE DATE OF EACH CHANGE.

E

D

C

B

A

PANEL IS FED FROM 100A/3P  
CB IN PANELBOARD CO2DH

PANELBOARD "LH1" SCHEDULE													
VOLTS: 480/277 Wye PHASES: 3 WIRE: 4				BUS: 125 A MAIN: MLO SCCR: 18KAIC				MOUNTING: SURFACE SECTIONS: 1 LOCATION: ELECTRICAL 110					
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION			
LTG - EOC MAIN RM	2#12 & 1#12G ~ 0.75°C	20 A	1	2.9	0.0		2	1	20 A	--	SPARE		
LTG - EOC CORE	2#12 & 1#12G ~ 0.75°C	20 A	1	3		2.0	0.0		4	1	20 A	--	SPARE
LTG - HUB HIGH BAY	2#12 & 1#12G ~ 0.75°C	20 A	1	5			1.8	0.0	6	1	20 A	--	SPARE
LTG - SERVICE YARD	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.2	0.0			8	1	20 A	--	SPARE
LTG - LVL 1 CORE	2#12 & 1#12G ~ 0.75°C	20 A	1	9		2.3	0.0		10	1	20 A	--	SPARE
LTG - LVL 1 OFFICES	2#12 & 1#12G ~ 0.75°C	20 A	1	11			2.1	0.0	12	1	20 A	--	SPARE
LTG - EOC EXTERIOR	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.0	0.0			14	1	20 A	--	SPARE
SPARE	--	20 A	1	15		0.0	0.0		16	1	20 A	--	SPARE
SPARE	--	20 A	1	17			0.0	0.0	18	1	20 A	--	SPARE
SPARE	--	20 A	1	19	0.0	0.0			20	1	20 A	--	SPARE
SPARE	--	20 A	1	21		0.0	0.0		22	1	20 A	--	SPARE
SPARE	--	20 A	1	23			0.0	0.0	24	1	20 A	--	SPARE
SPARE	--	20 A	1	25	0.0	0.0			26	1	20 A	--	SPARE
SPARE	--	20 A	1	27		0.0	0.0		28	1	20 A	--	SPARE
SPARE	--	20 A	1	29			0.0	0.0	30	1	20 A	--	SPARE
SPARE	--	20 A	1	31	0.0	0.0			32	1	20 A	--	SPARE
SPARE	--	20 A	1	33		0.0	0.0		34	1	20 A	--	SPARE
SPARE	--	20 A	1	35			0.0	0.0	36	1	20 A	--	SPARE
SPARE	--	20 A	1	37	0.0	0.0			38	1	20 A	--	SPARE
SPARE	--	20 A	1	39		0.0	0.0		40	1	20 A	--	SPARE
SPARE	--	20 A	1	41			0.0	0.0	42	1	20 A	--	SPARE
PHASE TOTALS (KVA):				3.1	4.3	3.9							
CONNECTED AMPERES:				13.6 A	CONNECTED KVA:				11.3 kVA				
CALCULATED AMPERES:				13.6 A	CALCULATED KVA:				11.3 kVA				
NOTES:													

PANEL IS FED FROM 225A/3P  
CB IN PANELBOARD UPDL2B

PANELBOARD "UPL1B" SCHEDULE: SECTION 1													
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4				BUS: 225 A MAIN: MLO SCCR: 10KAIC				MOUNTING: SURFACE SECTIONS: 2 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	0.7	0.0		2	1	20 A	--	SPARE		
167 911 CALL CN. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	3		1.5	0.0		4	1	20 A	--	SPARE
167 911 CALL CN. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	5			0.7	0.0	6	1	20 A	--	SPARE
170 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.4	0.0			8	1	20 A	--	SPARE
169 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	9		0.4	0.0		10	1	20 A	--	SPARE
170 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	11			0.4	0.0	12	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.5	0.0			14	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	15		0.5	0.0		16	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	17			0.5	0.0	18	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.5	0.0			20	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	21		0.5	0.0		22	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	23			0.5	0.0	24	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	25	0.5	0.0			26	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	27		0.5	0.0		28	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	29			0.5	0.0	30	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	31	0.5	0.0			32	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	33		0.5	0.0		34	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	35			0.5	0.0	36	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	37	0.5	0.0			38	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	39		0.5	0.0		40	1	20 A	--	SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	41			0.5	0.0	42	1	20 A	--	SPARE
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:													

PANEL IS FED FROM 225A/3P  
CB IN PANELBOARD UPDL2A

PANELBOARD "UPL1A" SCHEDULE: SECTION 1													
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4				BUS: 225 A MAIN: MLO SCCR: 10KAIC				MOUNTING: SURFACE SECTIONS: 2 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	1.5	0.5					2	1	20 A	167 911 CALL CN. DESK
167 911 CALL CN. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	3		1.5	0.0			4	1	20 A	-- SPARE
167 911 CALL CN. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	5				1.5	0.0	6	1	20 A	-- SPARE
168 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.4	0.0				8	1	20 A	-- SPARE
165 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	9			0.4	0.0		10	1	20 A	-- SPARE
164 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	11				0.4	0.0	12	1	20 A	-- SPARE
163 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.7	0.0				14	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	15		1.2	0.0			16	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	17				0.5	0.0	18	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.5	0.0				20	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	21			0.5	0.0		22	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	23				0.5	0.0	24	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	25	0.5	0.0				26	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	27			0.5	0.0		28	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	29				0.5	0.0	30	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	31	0.5	0.0				32	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	33			0.5	0.0		34	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	35				0.5	0.0	36	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	37	0.5	0.0				38	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	39			0.5	0.0		40	1	20 A	-- SPARE
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	41				0.5	0.0	42	1	20 A	-- SPARE
PHASE TOTALS (KVA):				7.5		7.1		6.3					
CONNECTED AMPERES:				58.1 A		CONNECTED KVA:				20.9 kVA			
CALCULATED AMPERES:				58.1 A		CALCULATED KVA:				20.9 kVA			
NOTES:													

### PANELBOARD "UPL1B" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye PHASES: 3 WIRE: 4						BUS: 225 A MAIN: MLO SCCR: 10KAIC				MOUNTING: SURFACE SECTIONS: 2 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	0.0			44	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	45		0.5	0.0		46	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	47			0.5	0.0	48	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	49	0.5	0.0			50	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	51		0.5	0.0		52	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	53			0.5	0.0	54	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	55	0.5	0.0			56	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	57		0.5	0.0		58	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	59			0.5	0.0	60	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	61	0.5	0.0			62	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	63		0.5	0.0		64	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	65			0.5	0.0	66	1	20 A	--	SPARE
167 911 CALL CN. DESK		2#12 & 1#12G ~ 0.75°C	20 A	1	67	0.5	0.0			68	1	20 A	--	SPARE
SPARE		--	20 A	1	69		0.0	0.0		70	1	20 A	--	SPARE
SPARE		--	20 A	1	71			0.0	0.0	72	1	20 A	--	SPARE
SPARE		--	20 A	1	73	0.0	0.0			74	1	20 A	--	SPARE
SPARE		--	20 A	1	75		0.0	0.0		76	1	20 A	--	SPARE
SPARE		--	20 A	1	77			0.0	0.0	78	1	20 A	--	SPARE
SPARE		--	20 A	1	79	0.0	0.0			80	1	20 A	--	SPARE
SPARE		--	20 A	1	81		0.0	0.0		82	1	20 A	--	SPARE
SPARE		--	20 A	1	83			0.0	0.0	84	1	20 A	--	SPARE
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:														



THE USER SHALL ADVISE THE DESIGNER OF ANY CHANGES TO THE PROJECT BEFORE THE DESIGNER'S NEXT MEETING.

E

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1/7/2021 3:17:38 PM

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GMP SET

PANEL IS FED FROM 225A/3P  
CB IN PANELBOARD UPDL2B

PANELBOARD "UPL2B" SCHEDULE: SECTION 1																
VOLTS: 120/208 Wye						BUS: 225 A						MOUNTING: SURFACE				
PHASES: 3						MAIN: MLO						SECTIONS: 2				
WIRE: 4						SCCR: 10KAIC						LOCATION: ELECTRICAL 207				
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	
208 AT&T MISC. PWR.	2#10 & 1#10G ~ 0.75°C	30 A	2	1	1.3	0.7		2	1 20 A	2#12 & 1#12G ~ 0.75°C	283 CMD. FB	20 A	1			
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75°C	30 A	2	5				4	1 20 A	2#12 & 1#12G ~ 0.75°C	284 CITY, 285 CONF TV	20 A	1			
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75°C	30 A	2	7	1.3	1.5		8	1 20 A	2#12 & 1#12G ~ 0.75°C	275 AV RACK	20 A	1			
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75°C	30 A	2	9				10	1 20 A	2#12 & 1#12G ~ 0.75°C	275 AV RACK	20 A	1			
208 MISC. SERVER RACK	2#10 & 1#10G ~ 0.75°C	30 A	2	11				12	1 20 A	2#12 & 1#12G ~ 0.75°C	275 AV RACK	20 A	1			
208 MISC. SERVER RACK	2#10 & 1#10G ~ 0.75°C	30 A	2	13	1.3	0.0		14	1 20 A	--	SPARE	20 A	1			
279 EOC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	15				16	1 20 A	--	SPARE	20 A	1			
280 JIC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	17				18	1 20 A	--	SPARE	20 A	1			
281 EPC FB	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.7	0.0		20	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	21				22	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	23				24	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	25	0.0	0.0		26	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	27				28	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	29				30	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	31	0.0	0.0		32	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	33				34	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	35				36	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	37	0.0	0.0		38	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	39				40	1 20 A	--	SPARE	20 A	1			
SPARE	--	20 A	1	41				42	1 20 A	--	SPARE	20 A	1			
PHASE TOTALS (kVA):				11.6	11.5	9.7										
CONNECTED AMPERES:				91.2 A	CONNECTED kVA:				32.8 kVA							
CALCULATED AMPERES:				71.0 A	CALCULATED kVA:				25.6 kVA							
NOTES:																

PANELBOARD "UPL2B" SCHEDULE: SECTION 2																
VOLTS: 120/208 Wye				BUS: 225 A				MOUNTING: SURFACE				SECTIONS: 2				
PHASES: 3				MAIN: MLO				LOCATION: ELECTRICAL 207				SCCR: 10KAIC				
WIRE: 4																
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	
279 EOC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	43	0.7	0.0		44	1 20 A	--	SPARE	20 A	1			
279 EOC REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	45			0.5	0.0			SPARE	20 A	1			
279 EOC TV	2#12 & 1#12G ~ 0.75°C	20 A	1	47				0.7	0.0		SPARE	20 A	1			
279 EOC LRG DISPLAY	2#12 & 1#12G ~ 0.75°C	20 A	1	49	1.4	0.0					SPARE	20 A	1			
279 EOC LRG DISPLAY	2#12 & 1#12G ~ 0.75°C	20 A	1	51			1.4	0.0			SPARE	20 A	1			
279 EOC LRG DISPLAY	2#12 & 1#12G ~ 0.75°C	20 A	1	53				1.4	0.0		SPARE	20 A	1			
279 EOC LRG DISPLAY	2#12 & 1#12G ~ 0.75°C	20 A	1	55	1.4	0.0					SPARE	20 A	1			
279 EOC LRG DISPLAY	2#12 & 1#12G ~ 0.75°C	20 A	1	57			1.4	0.0			SPARE	20 A	1			
279 EOC LRG DISPLAY	2#12 & 1#12G ~ 0.75°C	20 A	1	59				1.4	0.0		SPARE	20 A	1			
280 JIC, 281 JIC TV	2#12 & 1#12G ~ 0.75°C	20 A	1	61	1.5	0.0					SPARE	20 A	1			
285 CONF. FB	2#12 & 1#12G ~ 0.75°C	20 A	1	63			0.7	0.0			SPARE	20 A	1			
SPARE	--	20 A	1	65				0.0	0.0		SPARE	20 A	1			
SPARE	--	20 A	1	67	0.0	0.0					SPARE	20 A	1			
SPARE	--	20 A	1	69			0.0	0.0			SPARE	20 A	1			
SPARE	--	20 A	1	71				0.0	0.0		SPARE	20 A	1			
SPARE	--	20 A	1	73	0.0	0.0					SPARE	20 A	1			
SPARE	--	20 A	1	75			0.0	0.0			SPARE	20 A	1			
SPARE	--	20 A	1	77					0.0	0.0	SPARE	20 A	1			
SPARE	--	20 A	1	79	0.0	0.0					SPARE	20 A	1			
SPARE	--	20 A	1	81			0.0	0.0			SPARE	20 A	1			
SPARE	--	20 A	1	83					0.0		SPARE	20 A	1			
PHASE TOTALS (KVA):				5.0	4.0	3.5										
CONNECTED AMPERES:				34.7 A	CONNECTED KVA:				12.5 KVA							
CALCULATED AMPERES:				34.7 A	CALCULATED KVA:				12.5 KVA							
NOTES:																

PANEL IS FED FROM 200A/3P  
CB IN PANELBOARD CO2DH

PANELBOARD "MH2" SCHEDULE															
VOLTS: 480/277 Wye						BUS: 250 A				MOUNTING: SURFACE					
PHASES: 3						MAIN: MLO				SECTIONS: 1					
WIRE: 4						SCCR: 18KAIC				LOCATION: ELECTRICAL 207					
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION		
S101	2#8 & 1#10G ~ 0.75°C	35 A	1	7.0	3.0					2	1 20 A	2#12 & 1#12G ~ 0.75°C	FTR-1-1 & FTR-1-2		
S102	2#12 & 1#12G ~ 0.75°C	15 A	1	5				1.0	1.5	6	1 20 A	2#12 & 1#12G ~ 0.75°C	FTR-1-3 & FTR-1-4		
S105	2#12 & 1#12G ~ 0.75°C	15 A	1	7	1.0	0.0				8	1 20 A	--	SPARE		
S108	2#12 & 1#12G ~ 0.75°C	15 A	1	9			2.5	0.0		10	1 20 A	--	SPARE		
S111	2#12 & 1#12G ~ 0.75°C	15 A	1	11				2.5	0.0	11	1 20 A	--	SPARE		
S112	2#12 & 1#12G ~ 0.75°C	15 A	1	13	2.0	0.0				14	1 20 A	--	SPARE		
S113	2#8 & 1#10G ~ 0.75°C	45 A	1	15			8.0	0.0		16	1 20 A	--	SPARE		
S114	2#12 & 1#12G ~ 0.75°C	15 A	1	17					2.0	0.0	18	1 20 A	--	SPARE	
S200	2#12 & 1#12G ~ 0.75°C	15 A	1	19	1.0	0.0				20	1 20 A	--	SPARE		
S201	2#12 & 1#12G ~ 0.75°C	15 A	1	21			1.0	0.0		22	1 20 A	--	SPARE		
S202	2#12 & 1#12G ~ 0.75°C	20 A	1	23					3.0	0.0	24	1 20 A	--	SPARE	
S203	2#12 & 1#12G ~ 0.75°C	20 A	1	25	3.0	0.0				26	1 20 A	--	SPARE		
S204	2#12 & 1#12G ~ 0.75°C	15 A	1	27			2.0	0.0		28	1 20 A	--	SPARE		
S205	2#12 & 1#12G ~ 0.75°C	20 A	1	29					3.0	0.0	30	--	--	SPACE	
S206	2#12 & 1#12G ~ 0.75°C	20 A	1	31	3.0	0.0				32	--	--	--	SPACE	
S207	2#8 & 1#10G ~ 0.75°C	40 A	1	33			7.0	0.0		34	--	--	--	SPACE	
S208	2#8 & 1#10G ~ 0.75°C	35 A	1	35					6.0	0.0	36	--	--	--	SPACE
S209	2#12 & 1#12G ~ 0.75°C	20 A	1	37	3.0	0.0				38	--	--	--	--	SPACE
S210	2#12 & 1#12G ~ 0.75°C	15 A	1	39			1.0	0.0		40	--	--	--	--	SPACE
S211	2#12 & 1#12G ~ 0.75°C	15 A	1	41					1.0	0.0	42	--	--	--	SPACE
S212	2#12 & 1#12G ~ 0.75°C	15 A	1	43	2.0	0.0				44	--	--	--	--	SPACE
S213	2#12 & 1#12G ~ 0.75°C	15 A	1	45			0.5	0.0		46	--	--	--	--	SPACE
S214	2#12 & 1#12G ~ 0.75°C	15 A	1	47					0.5	0.0	48	--	--	--	SPACE
S215	2#12 & 1#12G ~ 0.75°C	15 A	1	49	2.0	0.0				50	--	--	--	--	SPACE
UH-1-3	2#12 & 1#12G ~ 0.75°C	20 A	1	51			4.0	0.0		52	--	--	--	--	SPACE
SPARE	--	20 A	1	53					0.0	0.0	54	--	--	--	SPACE
PHASE TOTALS (kVA):				27.0		36.0		20.5							
CONNECTED AMPERES:				100.4 A		CONNECTED KVA:				83.5 kVA					
CALCULATED AMPERES:				100.4 A		CALCULATED KVA:				83.5 kVA					
NOTES:															



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Firm License No. F-0312

THE USER SHALL ADVISE THE PROJECT ENGINEER OF ANY CHANGES TO THE PROJECT REQUIREMENTS.

E

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1/7/2021 3:17:48 PM

PANEL IS FED FROM 250A/3P  
CB IN SWITCHBOARD MSB-T

PANELBOARD "MH1-T" SCHEDULE																		
VOLTS: 480/277 Wye PHASES: 3 WIRE: 4				BUS: 250 A MAIN: MLO SCCR: 35KAIC				MOUNTING: SURFACE SECTIONS: 1 LOCATION: MAIN ELECT. 104										
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A			B			C			CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION		
JOCKEY PUMP CONTROLLER (3 HP)	4#12 & 1#12G ~ 0.75" C	15 A	3	1	1.3	4.0		1.3	4.0		1.3	3.0	2	1	20 A	2#12 & 1#12G ~ 0.75" C	UH-1-1	
			5										4	1	20 A	2#12 & 1#12G ~ 0.75" C	UH-1-2	
S119	2#12 & 1#12G ~ 0.75" C	20 A	1	7	3.0	2.0							6	1	20 A	2#12 & 1#12G ~ 0.75" C	FTR-1-6 & FTR-1-7	
S120	2#12 & 1#12G ~ 0.75" C	15 A	1	9			2.0	4.0					8	1	20 A	2#12 & 1#12G ~ 0.75" C	FTR-1-8	
S121	2#12 & 1#12G ~ 0.75" C	15 A	1	11					2.0	4.0			10	1	20 A	2#12 & 1#12G ~ 0.75" C	FTR-1-9 & FTR-1-10	
S122	2#12 & 1#12G ~ 0.75" C	15 A	1	13	1.5	4.0					1.5	4.0	12	1	20 A	2#12 & 1#12G ~ 0.75" C	FTR-1-11 & FTR-1-12	
S130	2#12 & 1#12G ~ 0.75" C	15 A	1	15			3.0	4.0					14	1	20 A	2#12 & 1#12G ~ 0.75" C	FTR-1-13 & FTR-1-13	
S131	2#12 & 1#12G ~ 0.75" C	15 A	1	17									16	1	20 A	2#12 & 1#12G ~ 0.75" C	FTR-1-14 & FTR-1-19	
	2#12 & 1#12G ~ 0.75" C	15 A	1	19	4.7	0.0					2.0	4.0	18	1	20 A	2#12 & 1#12G ~ 0.75" C	FTR-1-20 & FTR-1-21	
S132	3#12 & 1#12G ~ 0.75" C	35 A	3	21			4.7	0.0					20	1	20 A	--	SPARE	
			23							4.7	0.0	24	1	20 A	--	SPARE		
S134	2#8 & 1#10G ~ 0.75" C	45 A	1	25	8.0	0.0							26	1	20 A	--	SPARE	
S136	2#12 & 1#12G ~ 0.75" C	20 A	1	27			3.0	0.0					28	1	20 A	--	SPARE	
S138	2#8 & 1#10G ~ 0.75" C	40 A	1	29					7.0	0.0	3.0	0.0	30	1	20 A	--	SPARE	
S139	2#12 & 1#12G ~ 0.75" C	15 A	1	31	1.0	0.0							32	--	--	--	SPACE	
S141	2#12 & 1#12G ~ 0.75" C	20 A	1	33			3.0	0.0					34	--	--	--	SPACE	
S144	2#12 & 1#12G ~ 0.75" C	15 A	1	35					2.0	0.0	36	--	36	--	--	--	SPACE	
S145	2#8 & 1#10G ~ 0.75" C	35 A	1	37	6.0	0.0					38	--	38	--	--	--	SPACE	
			39				10.0	0.0			40	--	40	--	--	--	SPACE	
WH-1-1	3#4 & 1#8G ~ 1.25" C	50 A	3	41					10.0	0.0	42	--	42	--	--	--	SPACE	
			43	10.0	0.0						44	--	44	--	--	--	SPACE	
SPARE	--	20 A	1	45			0.0	0.0			46	--	46	--	--	--	SPACE	
SPARE	--	20 A	1	47						0.0	0.0	48	--	48	--	--	SPACE	
SPARE	--	20 A	1	49	0.0	0.0					50	--	50	--	--	--	SPACE	
SPARE	--	20 A	1	51			0.0	0.0			52	--	52	--	--	--	SPACE	
SPARE	--	20 A	1	53					0.0	0.0	54	--	54	--	--	--	SPACE	
PHASE TOTALS (KVA):				45.4			38.9			39.4								
CONNECTED AMPERES:				148.9 A			CONNECTED KVA:				123.8 KVA							
CALCULATED AMPERES:				148.9 A			CALCULATED KVA:				123.8 KVA							
NOTES:																		

PANEL IS FED FROM 225A/3P  
CB IN PANELBOARD PDL-1-T

PANELBOARD "PL1C-T" SCHEDULE: SECTION 1													
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4				BUS: 225 A MAIN: MLO SCCR: 10KAIC				MOUNTING: SURFACE SECTIONS: 2 LOCATION: ELEC. 141					
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #
138 CONF. PROJ.	2#12 & 1#12G ~ 0.75" C	20 A	1	0.4 0.4			2 1 20 A	2#12 & 1#12G ~ 0.75" C	140 FITNESS EQUIP.	140 FITNESS REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
138 CONF. FB	2#8 & 1#8G ~ 0.75" C	20 A	1	3	1.4 0.4		4 1 20 A	2#12 & 1#12G ~ 0.75" C	140 FITNESS REC.	140 FITNESS REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
138 CONF. REC.	2#8 & 1#8G ~ 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.	144 STORAGE REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
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.	145 SRVR. REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
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.	145 SRVR. REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
139 CONF. REC.	2#10 & 1#10G ~ 0.75" C	20 A	1	11		1.4 0.8	12 1 20 A	2#12 & 1#12G ~ 0.75" C	145 AV RACK	145 AV RACK	2#12 & 1#12G ~ 0.75" C	20 A	1
139 CONF. REC.	2#12 & 1#12G ~ 0.75" C	20 A	1	13 1.1 0.8			14 1 20 A	2#12 & 1#12G ~ 0.75" C	145 AV RACK	145 AV RACK	2#12 & 1#12G ~ 0.75" C	20 A	1
137 TRAIN. PROJ.	2#12 & 1#12G ~ 0.75" C	20 A	1	15	0.4 0.8		16 1 20 A	2#12 & 1#12G ~ 0.75" C	145 AV RACK	145 AV RACK	2#12 & 1#12G ~ 0.75" C	20 A	1
137 TRAIN. FB	2#10 & 1#10G ~ 0.75" C	20 A	1	17		1.4 0.8	18 1 20 A	2#12 & 1#12G ~ 0.75" C	145 AV RACK	145 AV RACK	2#12 & 1#12G ~ 0.75" C	20 A	1
137 TRAIN. REC.	2#12 & 1#12G ~ 0.75" C	20 A	1	19 0.7 0.8			20 1 20 A	2#12 & 1#12G ~ 0.75" C	145 AV RACK	145 AV RACK	2#12 & 1#12G ~ 0.75" C	20 A	1
137 TRAIN. REC.	2#12 & 1#12G ~ 0.75" C	20 A	1	21	1.2 0.8		22 1 20 A	2#12 & 1#12G ~ 0.75" C	145 AV RACK	145 AV RACK	2#12 & 1#12G ~ 0.75" C	20 A	1
136 TRAIN. PROJ.	2#12 & 1#12G ~ 0.75" C	20 A	1	23	0.4 0.8	2.4 0.4	24 1 20 A	2#12 & 1#12G ~ 0.75" C	145 AV RACK	145 AV RACK	2#12 & 1#12G ~ 0.75" C	20 A	1
136 TRAIN. FB	2#8 & 1#8G ~ 0.75" C	20 A	1	25 1.4 0.8			26 1 20 A	2#12 & 1#12G ~ 0.75" C	145 AV RACK	145 AV RACK	2#12 & 1#12G ~ 0.75" C	20 A	1
136 TRAIN. REC.	2#10 & 1#10G ~ 0.75" C	20 A	1	27	1.0 1.1		28 1 20 A	2#12 & 1#12G ~ 0.75" C	127, 147B CORR. REC.	127, 147B CORR. REC.	2#10 & 1#10G ~ 0.75" C	20 A	1
136 TRAIN. REC.	2#8 & 1#8G ~ 0.75" C	20 A	1	29		1.3 0.7	30 1 20 A	2#12 & 1#12G ~ 0.75" C	147B CORR. ICE MKR.	147B CORR. ICE MKR.	2#10 & 1#10G ~ 0.75" C	20 A	1
140 FITNESS EQUIP.	2#12 & 1#12G ~ 0.75" C	20 A	1	31 0.4 1.0			32 1 20 A	2#12 & 1#12G ~ 0.75" C	147B CORR. FRIDGE	147B CORR. FRIDGE	2#12 & 1#12G ~ 0.75" C	20 A	1
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.	147B COUNTER REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
136 FS DAMPER	2#12 & 1#12G ~ 0.75" C	20 A	1	35	0.2 1.4	0.2 1.4	36 1 20 A	2#8 & 1#8G ~ 0.75" C	120B LOBBY REC.	120B LOBBY REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
S133.35.37.50	2#12 & 1#12G ~ 0.75" C	20 A	1	37 0.8 1.5			38 1 20 A	2#8 & 1#8G ~ 0.75" C	120B LOBBY REC.	120B LOBBY REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
UH-1-4	2#12 & 1#12G ~ 0.75" C	20 A	1	39	1.5 0.9		40 1 20 A	2#8 & 1#8G ~ 0.75" C	AREA B EXT. REC.	AREA B EXT. REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
120B LOBBY TV	2#12 & 1#12G ~ 0.75" C	20 A	1	41		0.7 0.2	42 1 20 A	2#12 & 1#12G ~ 0.75" C	360 PUMP RM REC.	360 PUMP RM REC.	2#12 & 1#12G ~ 0.75" C	20 A	1
137 TRAIN. FB	2#12 & 1#12G ~ 0.75" C	20 A	1	43 0.7 0.0			44 1 20 A	--	SPARE	SPARE	2#12 & 1#12G ~ 0.75" C	20 A	1
136 TRAIN. FB	2#12 & 1#12G ~ 0.75" C	20 A	1	45	0.7 0.0		46 1 20 A	--	SPARE	SPARE	2#12 & 1#12G ~ 0.75" C	20 A	1
120B LOBBY B FB	2#8 & 1#8G ~ 0.75" C	20 A	1	47		1.4 0.0	48 1 20 A	--	SPARE	SPARE	2#12 & 1#12G ~ 0.75" C	20 A	1
138,139 ROLL SHADES	2#12 & 1#12G ~ 0.75" C	20 A	1	49 0.5 0.0			50 1 20 A	--	SPARE	SPARE	2#12 & 1#12G ~ 0.75" C	20 A	1
SPARE	--	20 A	1	51	0.0 0.0		52 1 20 A	--	SPARE	SPARE	--	20 A	1
SPARE	--	20 A	1	53		0.0 0.0	54 1 20 A	--	SPARE	SPARE	--	20 A	1
PHASE TOTALS (KVA):				21.4	21.7	22.1							
CONNECTED AMPERES:				181.3 A	CONNECTED KVA:				65.3 KVA				
CALCULATED AMPERES:				148.4 A	CALCULATED KVA:				53.4 KVA				
NOTES:													

PANEL IS FED FROM 225A/3P  
CB IN PANELBOARD PDL-1-T

PANELBOARD "PL1C-T" SCHEDULE: SECTION 2														
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4				BUS: 225 A MAIN: MLO SCCR: 10KAIC				MOUNTING: SURFACE SECTIONS: 2 LOCATION: ELEC. 141						
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	
142 PROD. REC.	2#12 & 1#12G ~ 0.75" C	20 A	55	0.2 0.4			56	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
142 PROD. REC.	2#12 & 1#12G ~ 0.75" C	20 A	57		0.2 0.4		58	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
142 PROD. REC.	2#12 & 1#12G ~ 0.75" C	20 A	59			0.2 0.4	60	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
142 PROD. REC.	2#12 & 1#12G ~ 0.75" C	20 A	61	0.2 0.4			62	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
142 PROD. REC.	2#12 & 1#12G ~ 0.75" C	20 A	63		0.2 0.4		64	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
142 PROD. REC.	2#12 & 1#12G ~ 0.75" C	20 A	65			0.2 0.4	66	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
143 MEDIA REC.	2#12 & 1#12G ~ 0.75" C	20 A	67	0.2 0.4			68	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
143 MEDIA REC.	2#12 & 1#12G ~ 0.75" C	20 A	69		0.2 0.4		70	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
143 MEDIA REC.	2#12 & 1#12G ~ 0.75" C	20 A	71			0.2 0.4	72	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
143 MEDIA REC.	2#12 & 1#12G ~ 0.75" C	20 A	73	0.2 0.4			74	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
143 MEDIA REC.	2#12 & 1#12G ~ 0.75" C	20 A	75		0.2 0.4		76	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
143 MEDIA REC.	2#12 & 1#12G ~ 0.75" C	20 A	77			0.2 0.4	78	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
143 MEDIA REC.	2#12 & 1#12G ~ 0.75" C	20 A	79	0.2 0.4			80	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
143 MEDIA REC.	2#12 & 1#12G ~ 0.75" C	20 A	81		0.2 0.4		82	1 20 A	2#12 & 1#12G ~ 0.75" C	MEDIA GRID LIGHTING	MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	
PANEL LCPI-BT	2#12 & 1#12G ~ 0.75" C	20 A	83			0.5 0.5	84	1 20 A	2#12 & 1#12G ~ 0.75" C	LTC CONTROLLER				
136 TRAIN. TRACK LTG.	2#10 & 1#10G ~ 0.75" C	20 A	85	1.5 2.1			86							
136 TRAIN. TRACK LTG.	2#10 & 1#10G ~ 0.75" C	20 A	87		1.5 2.1		88	3 20 A	3#10 & 1#10G ~ 0.75" C	WBP-1-1 (2x 3HP)				
137 TRAIN. TRACK LTG.	2#10 & 1#10G ~ 0.75" C	20 A	89			1.5 2.1	90							
137 TRAIN. TRACK LTG.	2#10 & 1#10G ~ 0.75" C	20 A	91	1.5 0.0			92	1 20 A	--					
139 CONF. TRACK LTG.	2#10 & 1#10G ~ 0.75" C	20 A	93		1.5 0.0		94	1 20 A	--	SPARE				
139 CONF. TRACK LTG.	2#10 & 1#10G ~ 0.75" C	20 A	95			1.5 0.0	96	1 20 A	--	SPARE				
120B LOBBY TRACK LTG.	2#10 & 1#10G ~ 0.75" C	20 A	97	1.5 0.0			98	1 20 A	--	SPARE				
120B LOBBY TRACK LTG.	2#10 & 1#10G ~ 0.75" C	20 A	99		1.5 0.0		100	1 20 A	--	SPARE				
MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	101			0.4 0.0	102	1 20 A	--	SPARE				
MEDIA GRID LIGHTING	2#12 & 1#12G ~ 0.75" C	20 A	103	0.4 0.0			104	1 20 A	--	SPARE				
SPARE	--	20 A	105		0.0 0.0		106	1 20 A	--	SPARE				
SPARE	--	20 A	107			0.0 0.0	108	1 20 A	--	SPARE				
PHASE TOTALS (kVA):				9.7	9.3	8.6								
CONNECTED AMPERES:				76.8 A	CONNECTED kVA:				27.7 kVA					
CALCULATED AMPERES:				76.8 A	CALCULATED kVA:				27.7 kVA					
NOTES:														



THE USER SHALL ADVISE THE DESIGNER OF ANY CHANGES TO THE PROJECT. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED.

E

PANELBOARD "MH2-T" SCHEDULE															
VOLTS: 480/277 Wye PHASES: 3 WIRE: 4						BUS: 250 A MAIN: 150A/3P MCB SCCR: 35KA/IC						MOUNTING: SURFACE SECTIONS: 1 LOCATION: ELECT 202			
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION					
S217	2#12 & 1#12G-0.75°C	20 A	1	3.0	0.0		2	1	20 A	SPARE					
S218	2#12 & 1#12G-0.75°C	20 A	1	3		3.0	0.0	4	1	20 A	SPARE				
S219	2#12 & 1#12G-0.75°C	20 A	1	5				6	1	20 A	SPARE				
S220	2#12 & 1#12G-0.75°C	20 A	1	7	3.0	0.0		8	1	20 A	SPARE				
S225	2#10 & 1#10G-0.75°C	30 A	1	9		5.0	0.0	10	1	20 A	SPARE				
S226	2#10 & 1#10G-0.75°C	25 A	1	11			4.0	0.0	12	1	20 A	SPARE			
S227	2#12 & 1#12G-0.75°C	20 A	1	13	3.0	0.0		14	1	20 A	SPARE				
S228	2#12 & 1#12G-0.75°C	15 A	1	15		0.5	0.0	16	--	SPARE					
S229	2#12 & 1#12G-0.75°C	15 A	1	17			0.5	0.0	18	--	SPARE				
S230	2#12 & 1#12G-0.75°C	15 A	1	19	0.5	0.0		20	--	SPARE					
S231	2#12 & 1#12G-0.75°C	15 A	1	21		0.5	0.0	22	--	SPARE					
S238	2#12 & 1#12G-0.75°C	15 A	1	23			1.5	0.0	24	--	SPARE				
S239	2#12 & 1#12G-0.75°C	15 A	1	25	1.5	0.0		26	--	SPARE					
S241	2#12 & 1#12G-0.75°C	15 A	1	27		1.0	0.0	28	--	SPARE					
S243	2#12 & 1#12G-0.75°C	15 A	1	29			1.0	0.0	30	--	SPARE				
S244	2#12 & 1#12G-0.75°C	20 A	1	31	3.0	0.0		32	--	SPARE					
S245	2#10 & 1#10G-0.75°C	25 A	1	33		4.0	0.0	34	--	SPARE					
S246	2#12 & 1#12G-0.75°C	15 A	1	35			2.0	0.0	36	--	SPARE				
S250	2#12 & 1#12G-0.75°C	15 A	1	37	1.0	0.0		38	--	SPARE					
SPARE	--	20 A	1	39		0.0	0.0	40	--	SPARE					
SPARE	--	20 A	1	41			0.0	0.0	42	--	SPARE				
PHASE TOTALS (kVA):				15.0	14.0	12.0									
CONNECTED AMPERES:				49.3 A	CONNECTED KVA:				41.0 KVA						
CALCULATED AMPERES:				49.3 A	CALCULATED KVA:				41.0 KVA						
NOTES:															

PANEL IS FED FROM 150A/3P  
CB IN PANELBOARD PDL2-T

PANELBOARD "PL2C-T" SCHEDULE: SECTION 1															
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4						BUS: 225 A MAIN: MLO SCCR: 10KAIC				MOUNTING: SURFACE SECTIONS: 2 LOCATION: ELEC. 245					
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B
246 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	0.7	0.9		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			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			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	0.9		8	1	20 A	2#12 & 1#12G - 0.75°C	238 OPEN OFFICE PT.			
247 WRRKM REC.	2#12 & 1#12G - 0.75°C	20 A	1	9		0.9	0.9	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	0.9	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	0.9		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	0.9	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	0.9	18	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	19	0.7	0.9		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		0.9	0.9	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			0.9	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	0.0		26	1	20 A	--	SPARE			
FIRE PARTITION WALL	2#12 & 1#12G - 0.75°C	20 A	1	27		0.5	0.0	28	1	20 A	--	SPARE			
220, 239 FSD DAMPER	2#12 & 1#12G - 0.75°C	20 A	1	29			0.2	0.0	30	1	20 A	--	SPARE		
S249,51-53	2#12 & 1#12G - 0.75°C	20 A	1	31	0.8	0.0		32	1	20 A	--	SPARE			
SPARE	--	20 A	1	33		0.0	0.0	34	1	20 A	--	SPARE			
SPARE	--	20 A	1	35			0.0	0.0	36	1	20 A	--	SPARE		
SPARE	--	20 A	1	37	0.0	0.0		38	1	20 A	--	SPARE			
SPARE	--	20 A	1	39		0.0	0.0	40	1	20 A	--	SPARE			
SPARE	--	20 A	1	41			0.0	0.0	42	1	20 A	--	SPARE		
SPARE	--	20 A	1	43	0.0	0.0		44	1	20 A	--	SPARE			
SPARE	--	20 A	1	45		0.0	0.0	46	1	20 A	--	SPARE			
SPARE	--	20 A	1	47			0.0	0.0	48	1	20 A	--	SPARE		
SPARE	--	20 A	1	49	0.0	0.0		50	1	20 A	--	SPARE			
SPARE	--	20 A	1	51		0.0	0.0	52	1	20 A	--	SPARE			
SPARE	--	20 A	1	53			0.0	0.0	54	1	20 A	--	SPARE		
PHASE TOTALS (kVA):				7.8		7.3		7.0							
CONNECTED AMPERES:				61.5 A	CONNECTED KVA:				22.2 KVA						
CALCULATED AMPERES:				49.9 A	CALCULATED KVA:				18.0 KVA						
NOTES:															

C

PANELBOARD "PL2C-T" SCHEDULE: SECTION 2															
VOLTS: 120/208 Wye						BUS: 225 A				MOUNTING: SURFACE					
PHASES: 3						MAIN: MLO				SECTIONS: 2					
WIRE: 4						SCCR: 10KAIC				LOCATION: ELEC. 245					
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B
SPARE	--	20 A	1	55	0.0	0.0		56	1	20 A	--	SPARE			
SPARE	--	20 A	1	57				58	1	20 A	--	SPARE			
SPARE	--	20 A	1	59			0.0	0.0	60	1	20 A	--	SPARE		
SPARE	--	20 A	1	61	0.0	0.0			62	1	20 A	--	SPARE		
SPARE	--	20 A	1	63			0.0	0.0	64	1	20 A	--	SPARE		
SPARE	--	20 A	1	65				0.0	66	1	20 A	--	SPARE		
SPARE	--	20 A	1	67	0.0	0.0			68	1	20 A	--	SPARE		
SPARE	--	20 A	1	69			0.0	0.0	70	1	20 A	--	SPARE		
SPARE	--	20 A	1	71				0.0	72	1	20 A	--	SPARE		
SPARE	--	20 A	1	73	0.0	0.0			74	1	20 A	--	SPARE		
SPARE	--	20 A	1	75			0.0	0.0	76	1	20 A	--	SPARE		
SPARE	--	20 A	1	77				0.0	78	1	20 A	--	SPARE		
SPARE	--	20 A	1	79	0.0	0.0			80	1	20 A	--	SPARE		
SPARE	--	20 A	1	81			0.0	0.0	82	1	20 A	--	SPARE		
SPARE	--	20 A	1	83				0.0	84	1	20 A	--	SPARE		
SPARE	--	20 A	1	85	0.0	0.0			86	1	20 A	--	SPARE		
SPARE	--	20 A	1	87			0.0	0.0	88	1	20 A	--	SPARE		
SPARE	--	20 A	1	89				0.0	90	1	20 A	--	SPARE		
SPARE	--	20 A	1	91	0.0	0.0			92	1	20 A	--	SPARE		
SPARE	--	20 A	1	93			0.0	0.0	94	1	20 A	--	SPARE		
SPARE	--	20 A	1	95				0.0	96	1	20 A	--	SPARE		
SPARE	--	20 A	1	97	0.0	0.0			98	1	20 A	--	SPARE		
SPARE	--	20 A	1	99			0.0	0.0	100	1	20 A	--	SPARE		
SPARE	--	20 A	1	101				0.0	102	1	20 A	--	SPARE		
SPARE	--	20 A	1	103	0.0	0.0			104	1	20 A	--	SPARE		
SPARE	--	20 A	1	105			0.0	0.0	106	1	20 A	--	SPARE		
SPARE	--	20 A	1	107				0.0	108	1	20 A	--	SPARE		
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:															

A

PANELBOARD "LH2-T" SCHEDULE																	
VOLTS: 480/277 Wye PHASES: 3 WIRE: 4						BUS: 250 A MAIN: 50A/3P MCB SCCR: 35KAIC						MOUNTING: SURFACE SECTIONS: 1 LOCATION: ELECT 202					
LOAD DESCRIPTION		WIRE & CONDUIT		CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT		LOAD DESCRIPTION	
LTG - LOBBY A HIGH		2#10 & 1#10G ~ 0.75°C		20 A	1	1.5	0.0					2	--	--	--	SPACE	
LTG - AREA A		2#10 & 1#10G ~ 0.75°C		20 A	1			3.1	0.0			4	--	--	--	SPACE	
LTG - AREA B NORTH		2#10 & 1#10G ~ 0.75°C		20 A	1					3.2	0.0	6	--	--	--	SPACE	
LTG - AREA B WEST		2#10 & 1#10G ~ 0.75°C		20 A	1	7	2.4	0.0				8	--	--	--	SPACE	
LTG - AREA B EAST		2#10 & 1#10G ~ 0.75°C		20 A	1	9		2.3	0.0			10	--	--	--	SPACE	
SPARE		--		20 A	1	11				0.0	0.0	12	--	--	--	SPACE	
SPARE		--		20 A	1	13	0.0	0.0				14	--	--	--	SPACE	
SPARE		--		20 A	1	15			0.0	0.0		16	--	--	--	SPACE	
SPARE		--		20 A	1	17					0.0	0.0	18	--	--	SPACE	
SPARE		--		20 A	1	19	0.0	0.0				20	--	--	--	SPACE	
SPARE		--		20 A	1	21			0.0	0.0		22	--	--	--	SPACE	
SPARE		--		20 A	1	23					0.0	0.0	24	--	--	SPACE	
SPARE		--		20 A	1	25	0.0	0.0				26	--	--	--	SPACE	
SPARE		--		20 A	1	27			0.0	0.0		28	--	--	--	SPACE	
SPARE		--		20 A	1	29					0.0	0.0	30	--	--	SPACE	
SPARE		--		20 A	1	31	0.0	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):						3.9		5.4		3.2							
CONNECTED AMPERES:						15.1 A		CONNECTED KVA:						12.6 kVA			
CALCULATED AMPERES:						15.1 A		CALCULATED KVA:						12.6 kVA			
NOTES:																	

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THE CONSULTANT AND SHALL REMAIN  
THEIR CONFIDENTIAL INFORMATION

E

PANELBOARD "MH3-T" SCHEDULE1									
VOLTS: 480/277 Wye PHASES: 3 WIRE: 4				BUS: 250 A MAIN: 150A/3P MCB SCCR: 35KAIC				MOUNTING: SURFACE SECTIONS: 1 LOCATION: ELEC. 302	
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	LOAD DESCRIPTION
S300	2#12 & 1#12G-0.75°C	20 A	1	3.0	6.0		2		
S301	2#12 & 1#12G-0.75°C	15 A	1	3		2.0	6.0	4	3 30 A
S302	2#12 & 1#12G-0.75°C	15 A	1	5			6		
S303	2#12 & 1#12G-0.75°C	15 A	1	7	2.0	1.0	8	1 15 A	2#12 & 1#12G-0.75°C S345
S304	2#12 & 1#12G-0.75°C	20 A	1	9		3.0	10	1 20 A	2#12 & 1#12G-0.75°C S347
S313	2#12 & 1#12G-0.75°C	20 A	1	11			12	1 20 A	2#12 & 1#12G-0.75°C S348
S314	2#12 & 1#12G-0.75°C	20 A	1	13	3.0	3.0	14	1 20 A	2#12 & 1#12G-0.75°C S350
S315	2#12 & 1#12G-0.75°C	15 A	1	15		1.0	16	1 20 A	-- SPARE
S316	2#10 & 1#10G-0.75°C	25 A	1	17			18	1 20 A	-- SPARE
S317	2#12 & 1#12G-0.75°C	15 A	1	19	0.5	0.0	20	1 20 A	-- SPARE
S318	2#12 & 1#12G-0.75°C	15 A	1	21		0.5	22	1 20 A	-- SPARE
S319	2#12 & 1#12G-0.75°C	15 A	1	23			24	1 20 A	-- SPARE
S320	2#12 & 1#12G-0.75°C	15 A	1	25	0.5	0.0	26	1 20 A	-- SPARE
S327	2#12 & 1#12G-0.75°C	15 A	1	27		1.5	28	1 20 A	-- SPARE
S328	2#12 & 1#12G-0.75°C	15 A	1	29			30	1 20 A	-- SPARE
S329	2#12 & 1#12G-0.75°C	15 A	1	31	1.0	0.0	32	1 20 A	-- SPARE
S330	2#12 & 1#12G-0.75°C	15 A	1	33		1.0	34	1 20 A	-- SPARE
S332	2#12 & 1#12G-0.75°C	15 A	1	35			36	1 20 A	-- SPARE
S333	2#12 & 1#12G-0.75°C	15 A	1	37	1.0	0.0	38	--	-- SPARE
S335	2#12 & 1#12G-0.75°C	15 A	1	39		1.0	40	--	-- SPARE
S336	2#12 & 1#12G-0.75°C	15 A	1	41			42	--	-- SPARE
S337	2#12 & 1#12G-0.75°C	15 A	1	43	2.0	0.0	44	--	-- SPARE
S338	2#12 & 1#12G-0.75°C	20 A	1	45		3.0	46	--	-- SPACE
S339	2#12 & 1#12G-0.75°C	20 A	1	47			48	--	-- SPARE
SPACE	--	--	--	49	0.0	0.0	50	--	-- SPACE
SPACE	--	--	--	51		0.0	52	--	-- SPARE
SPACE	--	--	--	53			54	--	-- SPARE
PHASE TOTALS (kVA):				23.0	22.0	25.0			
CONNECTED AMPERES:				84.2 A	CONNECTED KVA:				70.0 kVA
CALCULATED AMPERES:				84.2 A	CALCULATED KVA:				70.0 kVA
NOTES:									

PANEL IS FED FROM 150A/3P  
CB IN PANELBOARD PDL3-T

PANELBOARD "PL3C-T" SCHEDULE: SECTION 1										
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4				BUS: 225 A MAIN: MLO SCCR: 10KAIC				MOUNTING: SURFACE SECTIONS: 2 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#10G - 0.75°C	20 A	1	1.1	0.7		2	1	2#12 & 1#12G - 0.75°C	355 OFFICE REC.
AREA A CORR. REC.	2#8 & 1#10G - 0.75°C	20 A	1	3		1.6	4	1	2#12 & 1#12G - 0.75°C	357 OFFICE REC.
349 PLAN REC.	2#12 & 1#12G - 0.75°C	20 A	1	5			6	1	2#12 & 1#12G - 0.75°C	356 LIBRARY REC.
349 PLAN REC.	2#10 & 1#12G - 0.75°C	20 A	1	7	1.6	0.7	8	1	2#12 & 1#12G - 0.75°C	358 OFFICE REC.
349 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	9		0.7	10	1	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	12	1	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	0.9	14	1	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	16	1	2#12 & 1#12G - 0.75°C	361 OPEN OFFICE PT
344 OFFICE REC.	2#10 & 1#12G - 0.75°C	20 A	1	17		0.7	18	1	2#12 & 1#12G - 0.75°C	361 OPEN OFFICE PT
342 OFFICE REC.	2#10 & 1#12G - 0.75°C	20 A	1	19	0.7	0.9	20	1	2#12 & 1#12G - 0.75°C	361 OPEN OFFICE PT
340 OFFICE REC.	2#10 & 1#12G - 0.75°C	20 A	1	21		0.7	22	1	2#12 & 1#12G - 0.75°C	361 OPEN OFFICE PT
341 OFFICE REC.	2#10 & 1#12G - 0.75°C	20 A	1	23			24	1	2#12 & 1#12G - 0.75°C	361 OPEN OFFICE PT
339 OFFICE REC.	2#10 & 1#12G - 0.75°C	20 A	1	25	0.7	0.9	26	1	2#12 & 1#12G - 0.75°C	361 OPEN OFFICE PT
338 OFFICE REC.	2#10 & 1#12G - 0.75°C	20 A	1	27		0.7	28	1	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			30	1	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	0.9	32	1	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	33		0.7	34	1	2#12 & 1#12G - 0.75°C	361 OPEN OFFICE PT
351 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	35		0.7	36	1	2#10 & 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	0.0	38	1	20 A	--
353 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	39		0.7	40	1	20 A	--
354 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	41			42	1	20 A	--
320, 360 FS DAMPER	2#12 & 1#12G - 0.75°C	20 A	1	43	0.2	0.0	44	1	20 A	--
S342-44	2#12 & 1#12G - 0.75°C	20 A	1	45		0.6	46	1	20 A	--
S340-41,46,49	2#12 & 1#12G - 0.75°C	20 A	1	47			48	1	20 A	--
SPACE	--	20 A	1	49	0.0	0.0	50	1	20 A	--
SPACE	--	20 A	1	51		0.0	52	1	20 A	--
SPACE	--	20 A	1	53			54	1	20 A	--
PHASE TOTALS (kVA):				11.2	11.6	11.4				
CONNECTED AMPERES:				95.0 A	CONNECTED KVA:				34.2 kVA	
CALCULATED AMPERES:				66.1 A	CALCULATED KVA:				23.8 kVA	
NOTES:										

B

PANELBOARD "PL3C-T" SCHEDULE: SECTION 2											
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4				BUS: 225 A MAIN: MLO SCCR: 10KAIC				MOUNTING: SURFACE SECTIONS: 2 LOCATION: ELEC. 350			
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION	
SPARE	--	20 A	1	0.0	0.0		55	1 20 A	--	SPARE	
SPARE	--	20 A	1	57			58	1 20 A	--	SPARE	
SPARE	--	20 A	1	59			60	1 20 A	--	SPARE	
SPARE	--	20 A	1	61	0.0	0.0		62	1 20 A	--	SPARE
SPARE	--	20 A	1	63		0.0	0.0	64	1 20 A	--	SPARE
SPARE	--	20 A	1	65			0.0	66	1 20 A	--	SPARE
SPARE	--	20 A	1	67	0.0	0.0		68	1 20 A	--	SPARE
SPARE	--	20 A	1	69		0.0	0.0	70	1 20 A	--	SPARE
SPARE	--	20 A	1	71			0.0	72	1 20 A	--	SPARE
SPARE	--	20 A	1	73	0.0	0.0		74	1 20 A	--	SPARE
SPARE	--	20 A	1	75		0.0	0.0	76	1 20 A	--	SPARE
SPARE	--	20 A	1	77			0.0	78	1 20 A	--	SPARE
SPARE	--	20 A	1	79	0.0	0.0		80	1 20 A	--	SPARE
SPARE	--	20 A	1	81		0.0	0.0	82	1 20 A	--	SPARE
SPARE	--	20 A	1	83			0.0	84	1 20 A	--	SPARE
SPARE	--	20 A	1	85	0.0	0.0		86	1 20 A	--	SPARE
SPARE	--	20 A	1	87		0.0	0.0	88	1 20 A	--	SPARE
SPARE	--	20 A	1	89			0.0	90	1 20 A	--	SPARE
SPARE	--	20 A	1	91	0.0	0.0		92	1 20 A	--	SPARE
SPARE	--	20 A	1	93		0.0	0.0	94	1 20 A	--	SPARE
SPARE	--	20 A	1	95			0.0	96	1 20 A	--	SPARE
SPARE	--	20 A	1	97	0.0	0.0		98	1 20 A	--	SPARE
SPARE	--	20 A	1	99		0.0	0.0	100	1 20 A	--	SPARE
SPARE	--	20 A	1	101			0.0	102	1 20 A	--	SPARE
SPARE	--	20 A	1	103	0.0	0.0		104	1 20 A	--	SPARE
SPARE	--	20 A	1	105		0.0	0.0	106	1 20 A	--	SPARE
SPARE	--	20 A	1	107			0.0	108	1 20 A	--	SPARE
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:											

A

PANELBOARD "LH3-T" SCHEDULE											
VOLTS: 480/277 Wye PHASES: 3 WIRE: 4				BUS: 250 A MAIN: 50A/3P MCB SCCR: 35KAIC				MOUNTING: SURFACE SECTIONS: 1 LOCATION: ELEC. 302			
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION	
LTG AREA A WEST	2#12 & 1#12G - 0.75°C	20 A	1	1.8	0.0		2	1	20 A	--	SPARE
LTG AREA A EAST	2#12 & 1#12G - 0.75°C	20 A	1	3		1.8	4	1	20 A	--	SPARE
LTG AREA B NORTH	2#12 & 1#12G - 0.75°C	20 A	1	5			6	1	20 A	--	SPARE
LTG AREA B WEST	2#12 & 1#12G - 0.75°C	20 A	1	7	2.4	0.0	8	1	20 A	--	SPARE
LTG AREA B EAST	2#12 & 1#12G - 0.75°C	20 A	1	9		2.3	10	1	20 A	--	SPARE
SPARE	--	20 A	1	11			12	1	20 A	--	SPARE
SPARE	--	20 A	1	13	0.0	0.0	14	1	20 A	--	SPARE
SPARE	--	20 A	1	15		0.0	16	1	20 A	--	SPARE
SPARE	--	20 A	1	17			18	1	20 A	--	SPARE
SPARE	--	20 A	1	19	0.0	0.0	20	1	20 A	--	SPARE
SPARE	--	20 A	1	21		0.0	22	1	20 A	--	SPARE
SPARE	--	20 A	1	23			24	1	20 A	--	SPARE
SPARE	--	20 A	1	25	0.0	0.0	26	1	20 A	--	SPARE
SPARE	--	20 A	1	27		0.0	28	1	20 A	--	SPARE
SPARE	--	20 A	1	29			30	1	20 A	--	SPARE
SPARE	--	20 A	1	31	0.0	0.0	32	1	20 A	--	SPARE
SPARE	--	20 A	1	33		0.0	34	1	20 A	--	SPARE
SPARE	--	20 A	1	35			36	1	20 A	--	SPARE
SPARE	--	20 A	1	37	0.0	0.0	38	1	20 A	--	SPARE
SPARE	--	20 A	1	39		0.0	40	1	20 A	--	SPARE
SPARE	--	20 A	1	41		0.0	42	1	20 A	--	SPARE
PHASE TOTALS (kVA):				4.2	4.0	3.1					
CONNECTED AMPERES:				13.6 A	CONNECTED KVA:				11.3 KVA		
CALCULATED AMPERES:				13.6 A	CALCULATED KVA:				11.3 KVA		
NOTES:											

PANEL IS FED FROM 150A/3P  
CB IN PANELBOARD PDL3-T

PANELBOARD "PL3B-T" SCHEDULE: SECTION 1											
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4				BUS: 225 A MAIN: MLO SCCR: 10KAIC				MOUNTING: SURFACE SECTIONS: 2 LOCATION: ELEC. 333			
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	LOAD DESCRIPTION		
332 PRIVACY RM. REC.	2#12 & 1#12G - 0.75°C	20 A	1	0.4	0.7		2	1	20 A		
331 MTG TV REC.	2#12 & 1#12G - 0.75°C	20 A	1	3		1.3	4	1	20 A		
330 MTG TV REC	2#12 & 1#12G - 0.75°C	20 A	1	5			6	1	20 A		
329 MTG TV REC.	2#12 & 1#12G - 0.75°C	20 A	1	7	1.3	0.7	8	1	20 A		
388 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	9		0.7	10	1	20 A		
389 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	11			12	1	20 A		
387 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	13	0.7	0.7	14	1	20 A		
386 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	15		0.7	16	1	20 A		
385 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	17			17	1	20 A		
384 OFFICE REC.	2#10 & 1#12G - 0.75°C	20 A	1	19	0.7	0.7	20	1	20 A		
383 OFFICE REC.	2#10 & 1#12G - 0.75°C	20 A	1	21		0.7	22	1	20 A		
382 OFFICE REC.	2#10 & 1#12G - 0.75°C	20 A	1	23			23	0.7	0.9	24	
381 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	25	0.7	0.9	26	1	20 A		
380 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	27		0.7	28	1	20 A		
379 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	29			29	0.7	0.9	30	
377 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	31	0.7	0.9	32	1	20 A		
367, 378, CORR. REC.	2#10 & 1#12G - 0.75°C	20 A	1	33		1.4	34	1	20 A		
376 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	35			35	0.7	0.9	36	
386 OFFICE REC.	2#12 & 1#12G - 0.75°C	20 A	1	37	0.7	0.9	38	1	20 A		
3305.7	2#12 & 1#12G - 0.75°C	20 A	1	39		0.6	40	1	20 A		
S308-12	2#12 & 1#12G - 0.75°C	20 A	1	41			1.0	0.0	42	1	
SPARE	--	20 A	1	43	0.0	0.0			44	1	
SPARE	--	20 A	1	45		0.0	0.0		46	1	
SPARE	--	20 A	1	47			0.0	0.0	48	1	
SPARE	--	20 A	1	49	0.0	0.0			50	1	
SPARE	--	20 A	1	51		0.0	0.0		52	1	
SPARE	--	20 A	1	53			0.0	0.0	54	1	
PHASE TOTALS (kVA):				14.4	15.7	14.2					
CONNECTED AMPERES:				123.1 A	CONNECTED KVA:				44.3 kVA		
CALCULATED AMPERES:				77.6 A	CALCULATED KVA:				28.0 kVA		
NOTES:											



THE USER SHALL ADVANCE THE PROJECT TO THE NEXT PHASE OF DESIGN AND SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT.

E

D

C

B

A

1/7/2021 3:18:05 PM

1

2

3

4

5

6

GMP SET

PANELBOARD "LH4-T" SCHEDULE												
VOLTS: 480/277 Wye PHASES: 3 WIRE: 4					BUS: 250 A MAIN: 50A/3P MCB SCCR: 35KA					MOUNTING: SURFACE SECTIONS: 1 LOCATION: ELEC. 402		
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION		
FACE LIGHTING	2#12 & 1#12G ~ 0.75°C	20 A	1	0.7	0.0		2	--	--	SPACE		
LTG - AREA A WEST	2#12 & 1#12G ~ 0.75°C	20 A	1	3		2.0	0.0		4	--	--	
LTG - AREA A EAST	2#12 & 1#12G ~ 0.75°C	20 A	1	5				1.9	0.0	6	--	--
LTG - AREA B NORTH	2#12 & 1#12G ~ 0.75°C	20 A	1	7	3.1	0.0			8	--	--	
LTG - AREA B WEST	2#12 & 1#12G ~ 0.75°C	20 A	1	9		2.6	0.0		10	--	--	
LTG - AREA B EAST	2#12 & 1#12G ~ 0.75°C	20 A	1	11			2.5	0.0	12	--	--	
SPARE	--	20 A	1	13	0.0	0.0			14	--	--	
SPARE	--	20 A	1	15		0.0	0.0		16	--	--	
SPARE	--	20 A	1	17			0.0	0.0	18	--	--	
SPARE	--	20 A	1	19	0.0	0.0			20	--	--	
SPARE	--	20 A	1	21		0.0	0.0		22	--	--	
SPARE	--	20 A	1	23			0.0	0.0	24	--	--	
SPARE	--	20 A	1	25	0.0	0.0			26	--	--	
SPARE	--	20 A	1	27		0.0	0.0		28	--	--	
SPARE	--	20 A	1	29			0.0	0.0	30	--	--	
SPARE	--	20 A	1	31	0.0	0.0			32	--	--	
SPARE	--	20 A	1	33		0.0	0.0		34	--	--	
SPARE	--	20 A	1	35			0.0	0.0	36	--	--	
SPARE	--	20 A	1	37	0.0	0.0			38	--	--	
SPARE	--	20 A	1	39		0.0	0.0		40	--	--	
SPARE	--	20 A	1	41			0.0	0.0	42	--	--	
PHASE TOTALS (KVA):				3.8	4.6	4.3						
CONNECTED AMPERES:				15.2 A	CONNECTED KVA:				12.7 KVA			
CALCULATED AMPERES:				15.2 A	CALCULATED KVA:				12.7 KVA			
NOTES:												

PANEL IS FED FROM 150A/3P  
CB IN PANELBOARD PDL4-T

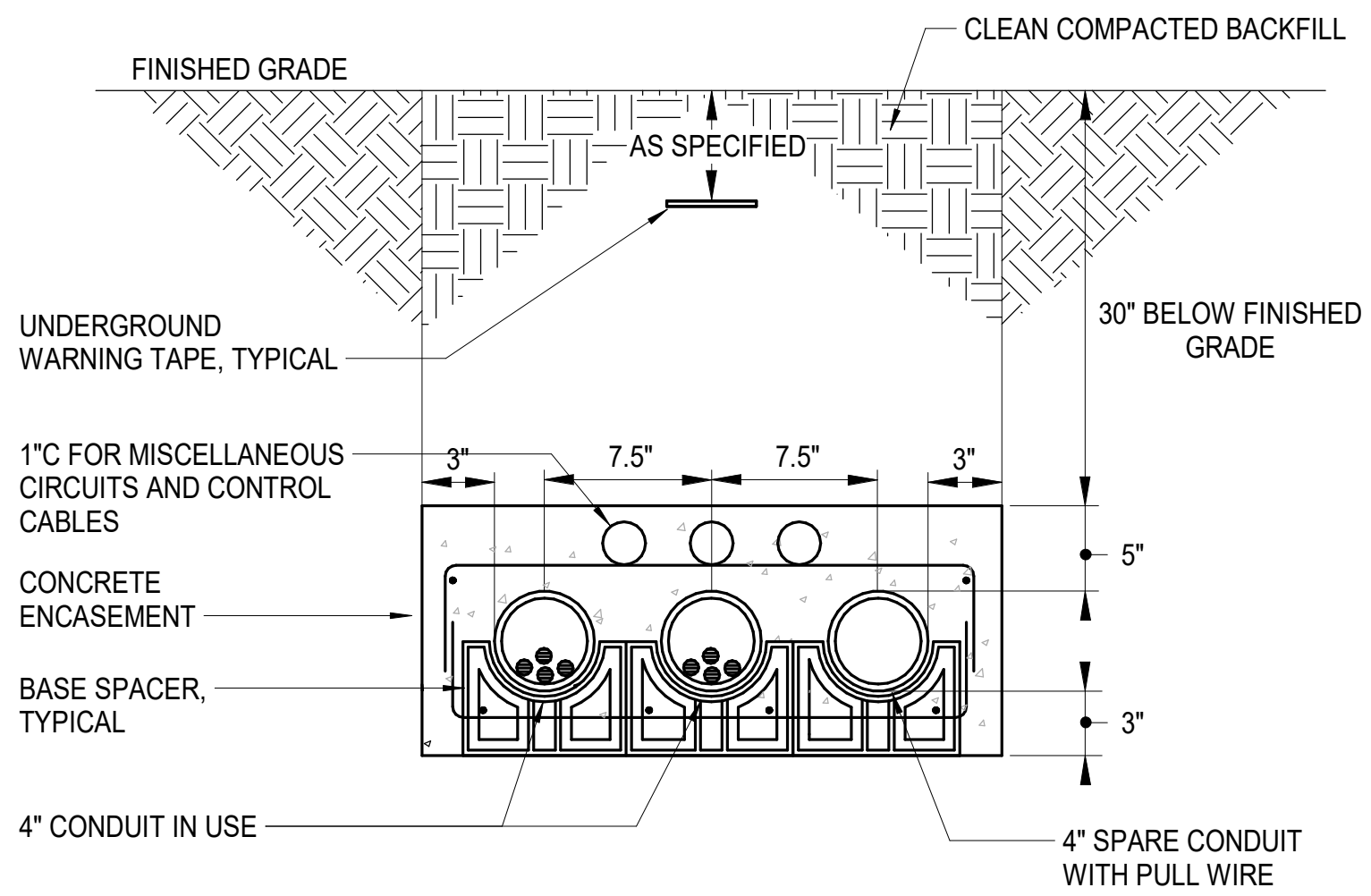
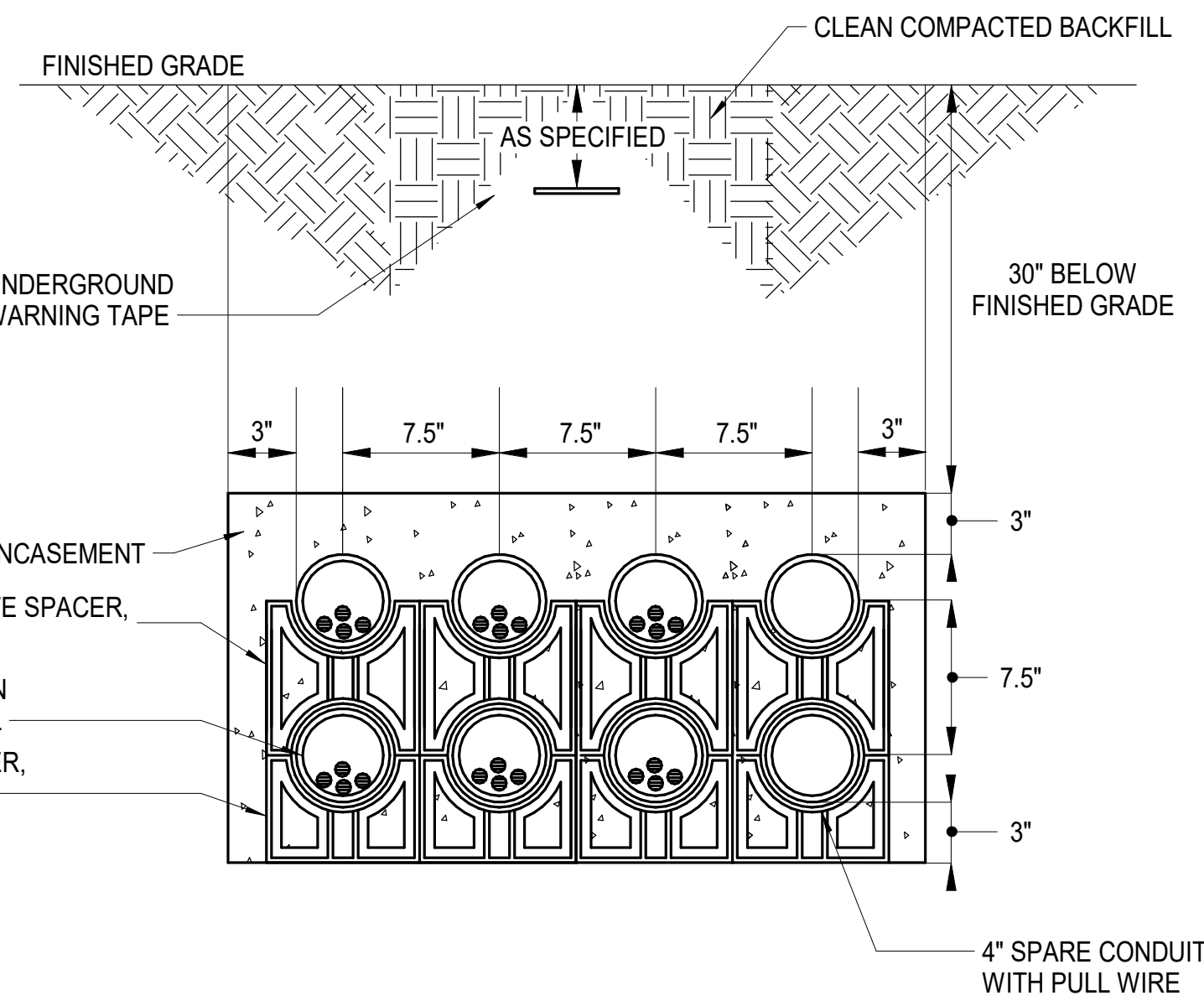
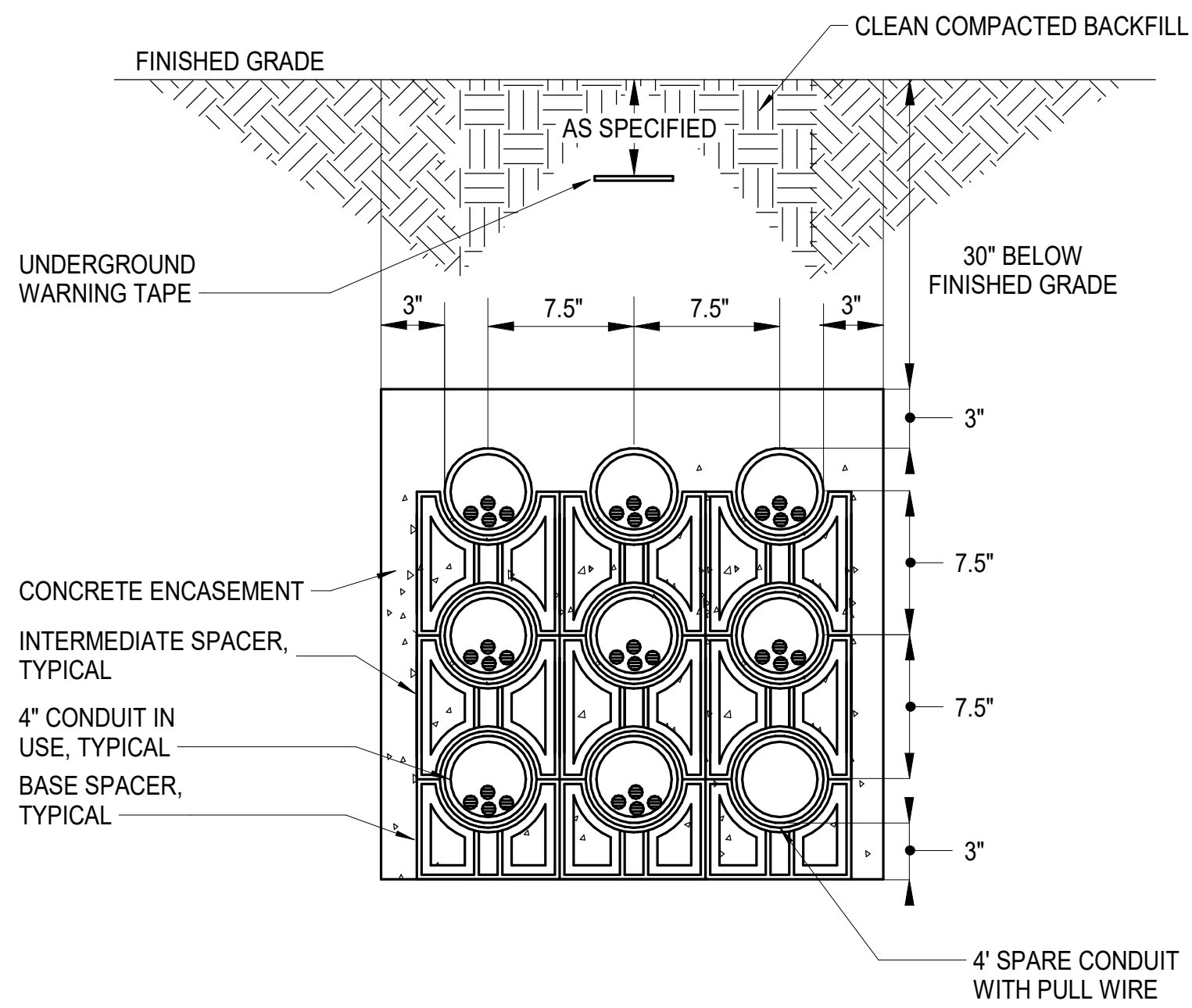
PANELBOARD "PL4C-T" SCHEDULE: SECTION 1												
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4					BUS: 225 A MAIN: MLO SCCR: 10KAIC					MOUNTING: SURFACE SECTIONS: 2 LOCATION: ELEC. 439		
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION		
439 ELEC. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	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
452 TLT. AUTO FIX.	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
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
420 CORR. REC.	2#10 & 1#10G ~ 0.75°C	20 A	1	9		1.1	1.0		10	1	20 A	2#12 & 1#12G ~ 0.75°C
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
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
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
454 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75°C	20 A	1	17			0.9	0.4	18	1	20 A	2#12 & 1#12G ~ 0.75°C
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
455 OPEN OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	21		0.4	0.2		22	1	20 A	2#12 & 1#12G ~ 0.75°C
456 OFFICE REC.	2#10 & 1#10G ~ 0.75°C	20 A	1	23			0.7	0.5	24	1	20 A	2#12 & 1#12G ~ 0.75°C
457 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
447 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	27		0.7	1.3		28	1	20 A	2#12 & 1#12G ~ 0.75°C
448 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	29			1.1	0.4	30	1	20 A	2#12 & 1#12G ~ 0.75°C
449 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	31	0.7	0.9			32	1	20 A	2#12 & 1#12G ~ 0.75°C
450 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	33		0.7	0.7		34	1	20 A	2#12 & 1#12G ~ 0.75°C
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
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
443,444 MEETING PT	2#12 & 1#12G ~ 0.75°C	20 A	1	39		0.7	0.7		40	1	20 A	2#10 & 1#10G ~ 0.75°C
444 PROJECT RM. REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	41			0.7	0.0	42	1	20 A	--
445 SM. MTG. REC.	2#10 & 1#10G ~ 0.75°C	20 A	1	43	1.1	0.0			44	1	20 A	--
445 SM. MTG. PT	2#12 & 1#12G ~ 0.75°C	20 A	1	45		0.4	0.0		46	1	20 A	--
451, 453 CONF. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	47			1.5	0.0	48	1	20 A	--
444, 445 TV	2#12 & 1#12G ~ 0.75°C	20 A	1	49	1.5	0.0			50	1	20 A	--
SPARE	--	20 A	1	51		0.0	0.0		52	1	20 A	--
SPARE	--	20 A	1	53			0.0	0.0	54	1	20 A	--
PHASE TOTALS (KVA):				14.0	10.6	10.0						
CONNECTED AMPERES:				96.1 A	CONNECTED KVA:				34.6 kVA			
CALCULATED AMPERES:				64.0 A	CALCULATED KVA:				23.1 kVA			
NOTES:												

PANELBOARD "PL4C-T" SCHEDULE: SECTION 2													
VOLTS: 120/208 Wye PHASES: 3 WIRE: 4					BUS: 225 A MAIN: MLO SCCR: 10KAIC					MOUNTING: SURFACE SECTIONS: 2 LOCATION: ELEC. 439			
LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A	B	C	CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION			
TOWER SIGNAGE WEST	2#12 & 1#12G ~ 0.75°C	20 A	1	55	0.5	0.0	56	1 20 A	--	SPARE			
SPARE	--	20 A	1	57		0.0	0.0	58 1 20 A	--	SPARE			
SPARE	--	20 A	1	59			0.0	0.0	60 1 20 A	--	SPARE		
SPARE	--	20 A	1	61	0.0	0.0		62 1 20 A	--	SPARE			
SPARE	--	20 A	1	63		0.0	0.0	64 1 20 A	--	SPARE			
SPARE	--	20 A	1	65			0.0	0.0	66 1 20 A	--	SPARE		
SPARE	--	20 A	1	67	0.0	0.0		68 1 20 A	--	SPARE			
SPARE	--	20 A	1	69		0.0	0.0	70 1 20 A	--	SPARE			
SPARE	--	20 A	1	71			0.0	0.0	72 1 20 A	--	SPARE		
SPARE	--	20 A	1	73	0.0	0.0		74 1 20 A	--	SPARE			
SPARE	--	20 A	1	75		0.0	0.0	76 1 20 A	--	SPARE			
SPARE	--	20 A	1	77			0.0	0.0	78 1 20 A	--	SPARE		
SPARE	--	20 A	1	79	0.0	0.0		80 1 20 A	--	SPARE			
SPARE	--	20 A	1	81		0.0	0.0	82 1 20 A	--	SPARE			
SPARE	--	20 A	1	83			0.0	0.0	84 1 20 A	--	SPARE		
SPARE	--	20 A	1	85	0.0	0.0		86 1 20 A	--	SPARE			
SPARE	--	20 A	1	87		0.0	0.0	88 1 20 A	--	SPARE			
SPARE	--	20 A	1	89			0.0	0.0	90 1 20 A	--	SPARE		
SPARE	--	20 A	1	91	0.0	0.0		92 1 20 A	--	SPARE			
SPARE	--	20 A	1	93		0.0	0.0	94 1 20 A	--	SPARE			
SPARE	--	20 A	1	95			0.0	0.0	96 1 20 A	--	SPARE		
SPARE	--	20 A	1	97	0.0	0.0		98 1 20 A	--	SPARE			
SPARE	--	20 A	1	99		0.0	0.0	100 1 20 A	--	SPARE			
SPARE	--	20 A	1	101			0.0	0.0	102 1 20 A	--	SPARE		
SPARE	--	20 A	1	103	0.0	0.0		104 1 20 A	--	SPARE			
SPARE	--	20 A	1	105		0.0	0.0	106 1 20 A	--	SPARE			
SPARE	--	20 A	1	107			0.0	0.0	108 1 20 A	--	SPARE		
PHASE TOTALS (KVA):				0.5	0.0	0.0							
CONNECTED AMPERES:				1.4 A	CONNECTED KVA:				0.5 KVA				
CALCULATED AMPERES:				1.4 A	CALCULATED KVA:				0.5 KVA				
NOTES:													

DISTRIBUTION PANELBOARD "PDL4-T" SCHEDULE									
VOLTS: 120/208 Wye				BUS: 400 A			MOUNTING: SURFACE		
PHASES: 3				MAIN: 400A/3P MCB, LSI			LOCATION: ELEC. 402		
WIRE: 4				SCCR: 10KAIC					
CKT	CIRCUIT DESCRIPTION			POLES	TRIP	LOAD	REMARKS	FEEDER TAG	
1	PL4A-T			3	150 A	34.0 KVA		SEE RISER DIAGRAM	
2	PL4B-T			3	150 A	46.4 KVA		SEE RISER DIAGRAM	
3	PL4C-T			3	150 A	34.6 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:				389 A		140.0 KVA			
CALCULATED AMPERES:				264 A		95.0 KVA			
Notes:									
1. MAIN CIRCUIT BREAKER SHALL BE LSI TYPE.									

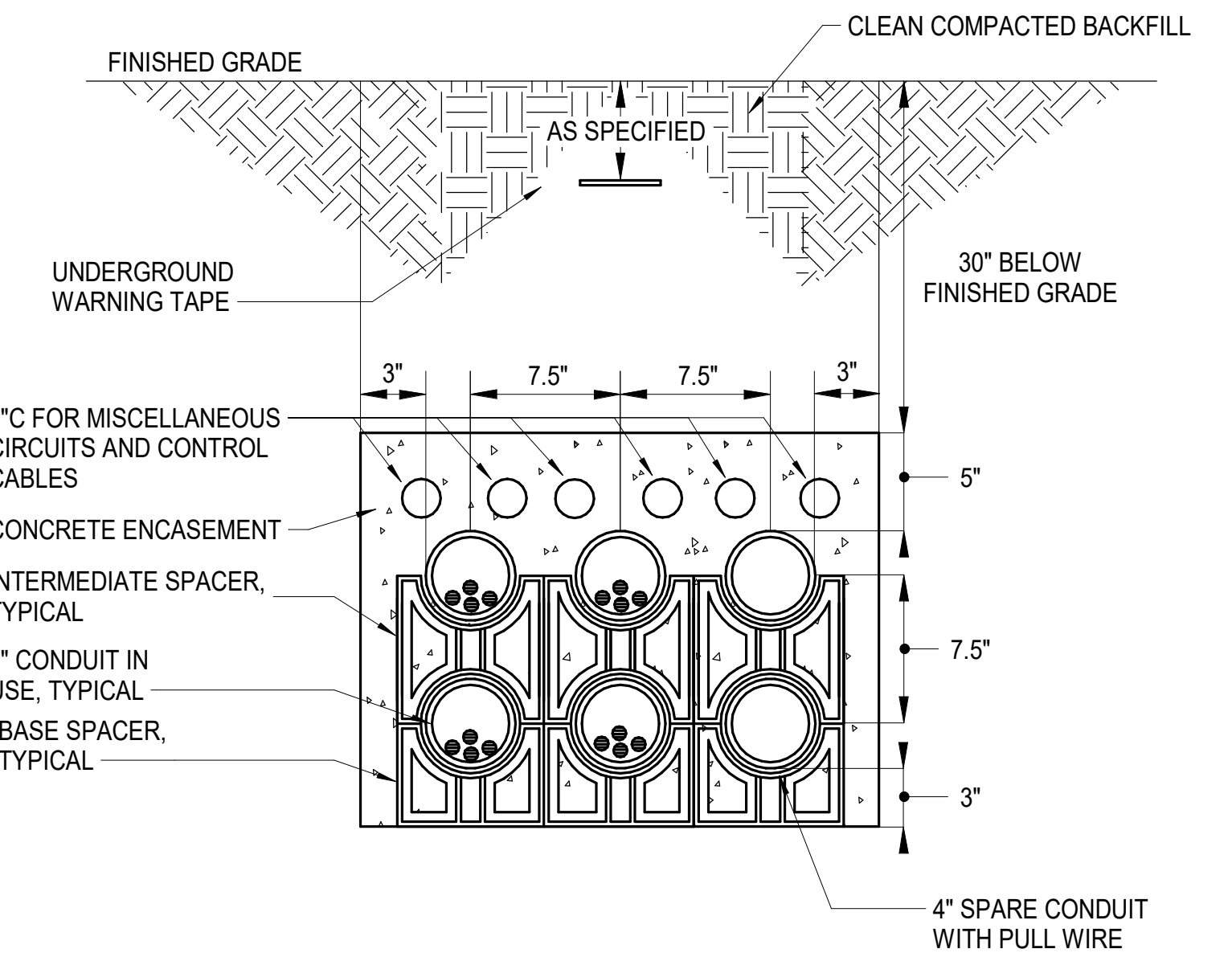
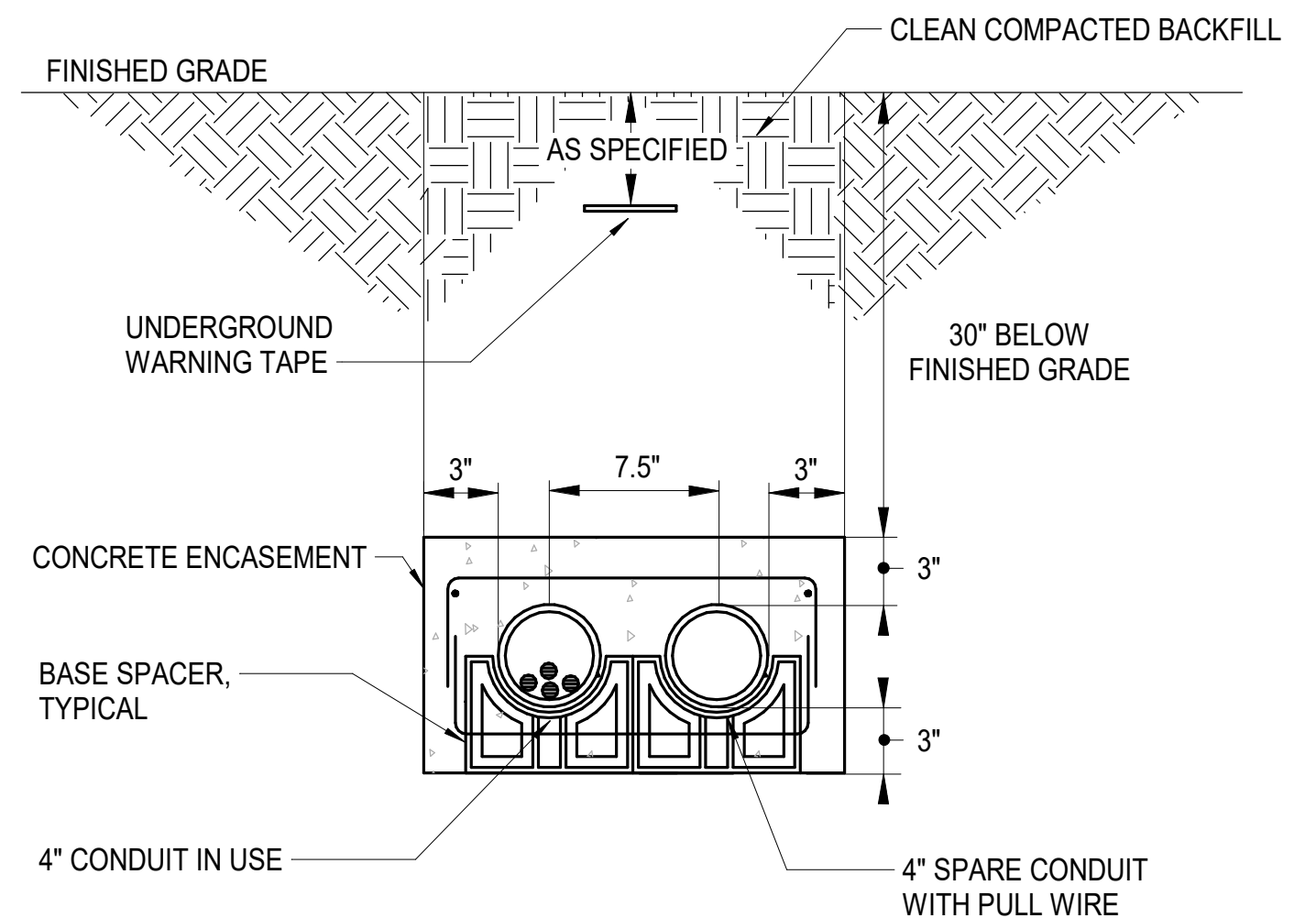
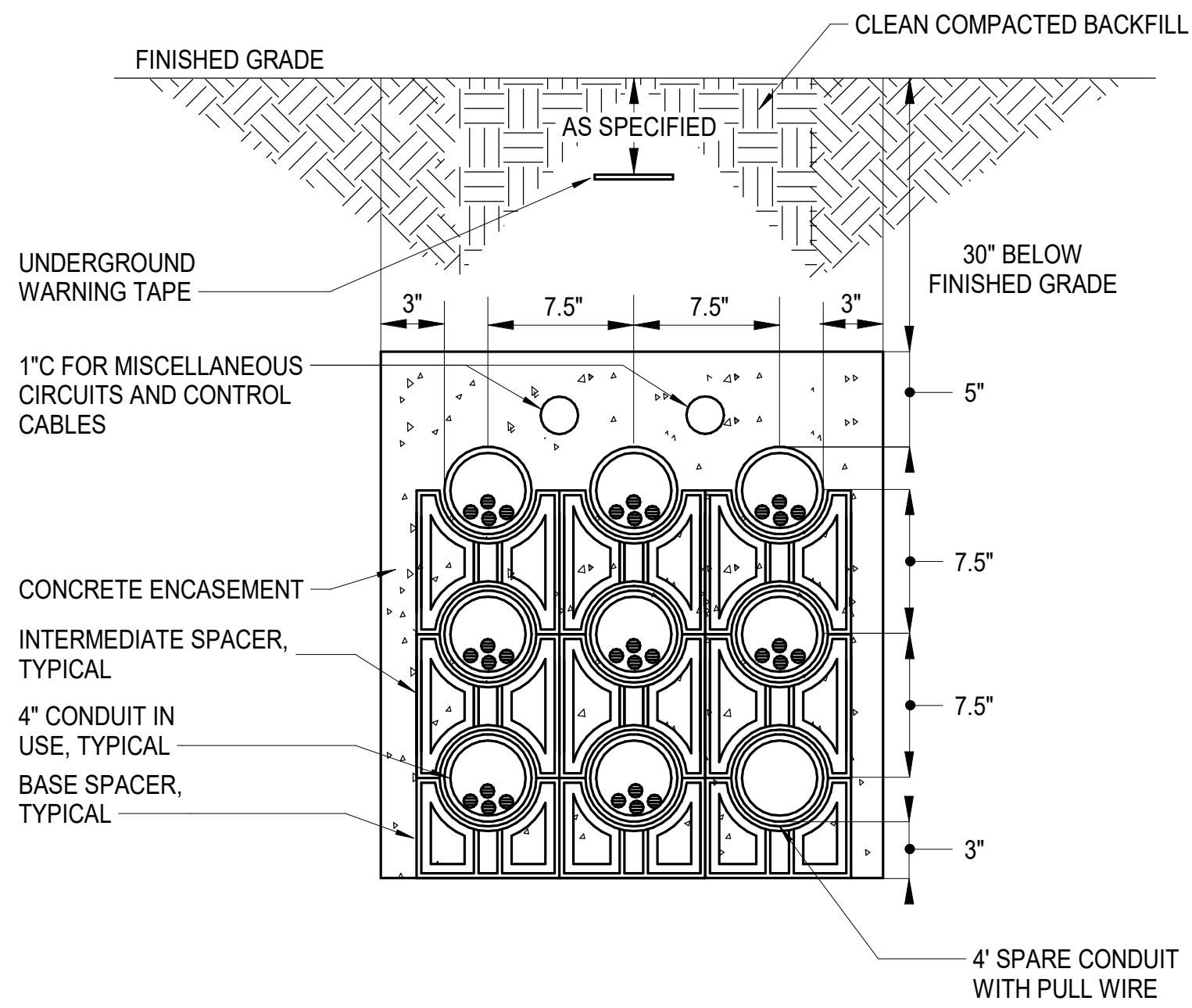
THE USER SHALL MAINTAIN THE BACKS OF THE SHEETS IN THE ORIGINAL SIZE AND ORIENTATION.

E



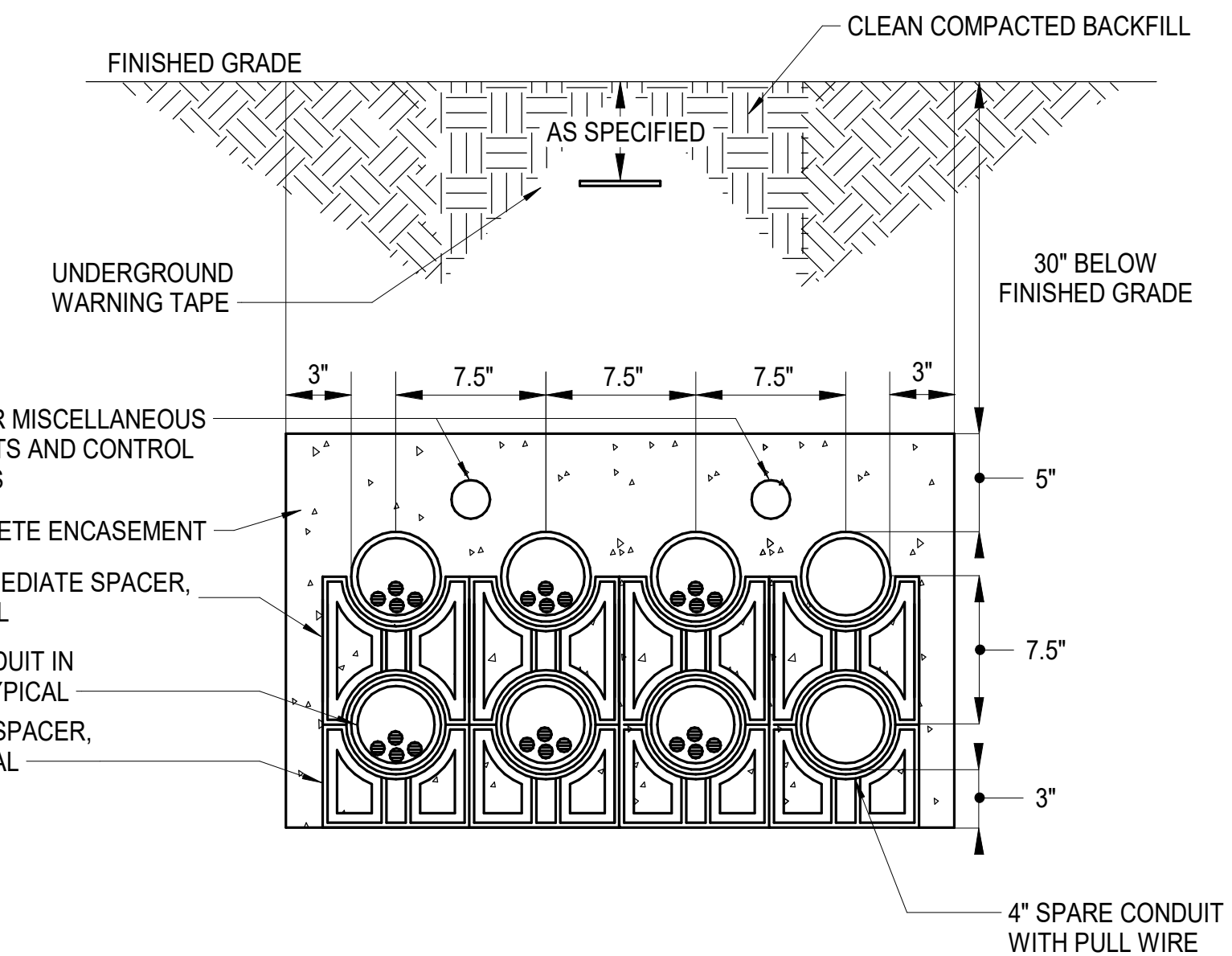
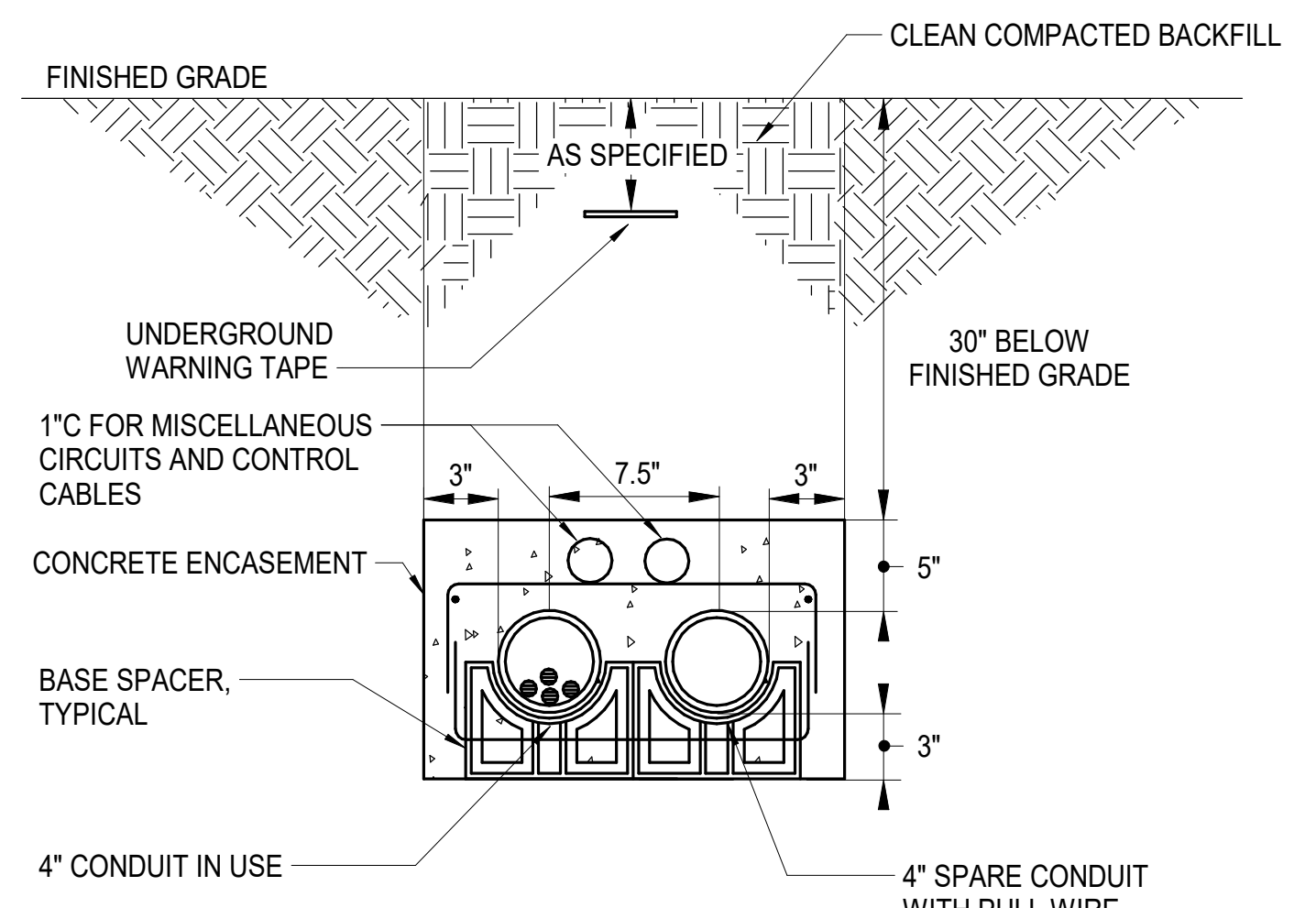
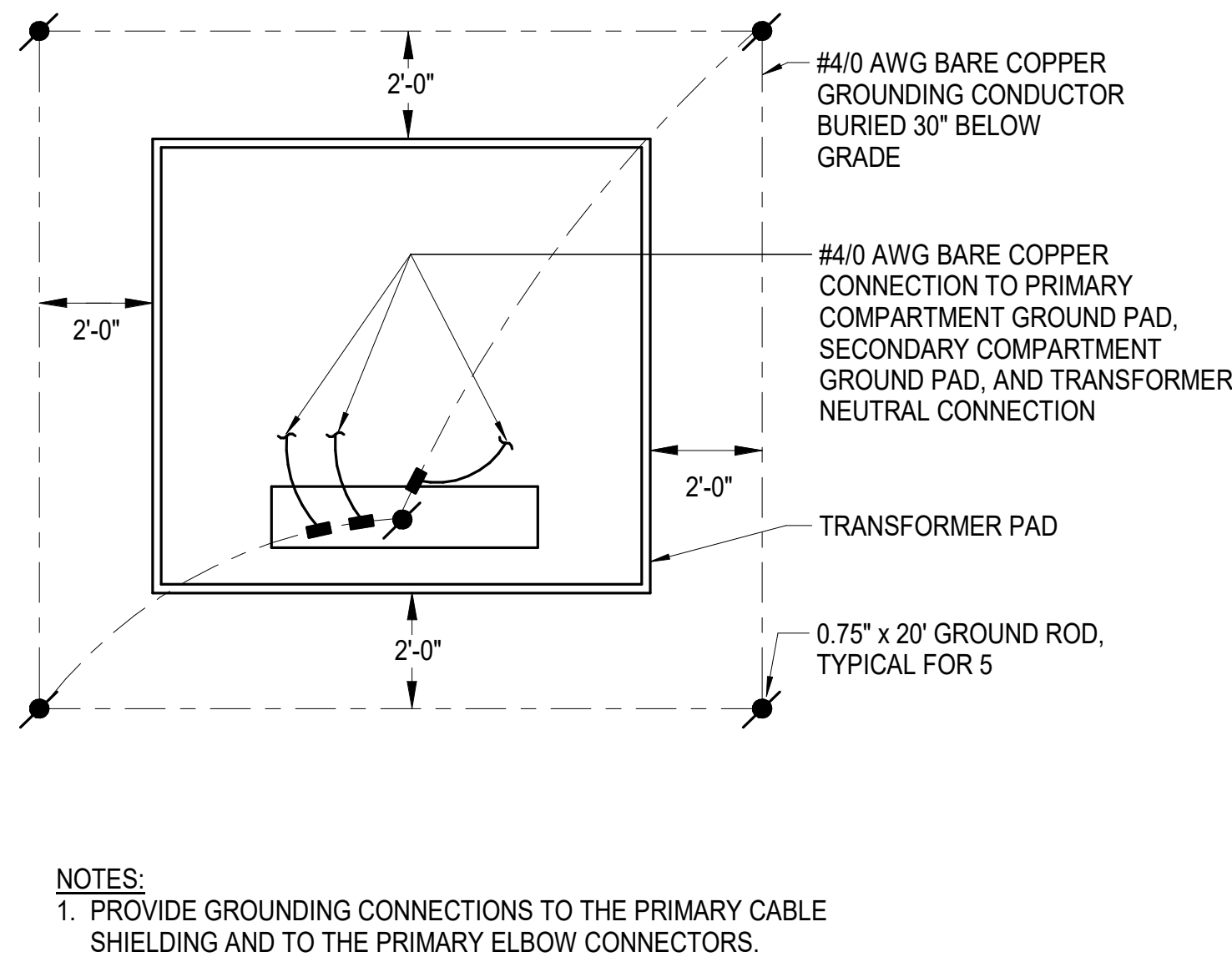
7 E-601	NORMAL CONCRETE-ENCASED DUCTBANK - TOWER	NTS	4 E-601	NORMAL CONCRETE-ENCASED DUCTBANK - EOC	NTS	1 E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK - EOC	NTS
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D



8 E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK - TOWER	NTS	5 E-601	NORMAL CONCRETE-ENCASED DUCTBANK	NTS	2 E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK - EOC	NTS
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B



9 E-601	TRANSFORMER GROUNDING	NTS	6 E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK	NTS	3 E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK - EOC	NTS
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A

**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  
WILMINGTON, NORTH CAROLINA 28401  
TEL. 910.790.3111 FAX. 910.790.9901  
WWW.LS3P.COM

NOT FOR  
CONSTRUCTION

NHC Government Center 7702-190810

**NEW HANOVER COUNTY**  
**GOVERNMENT CENTER**  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
ELECTRICAL DETAILS -  
SITE

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:  
**E-601**

GMP SET

1/7/2021 3:18:11 PM

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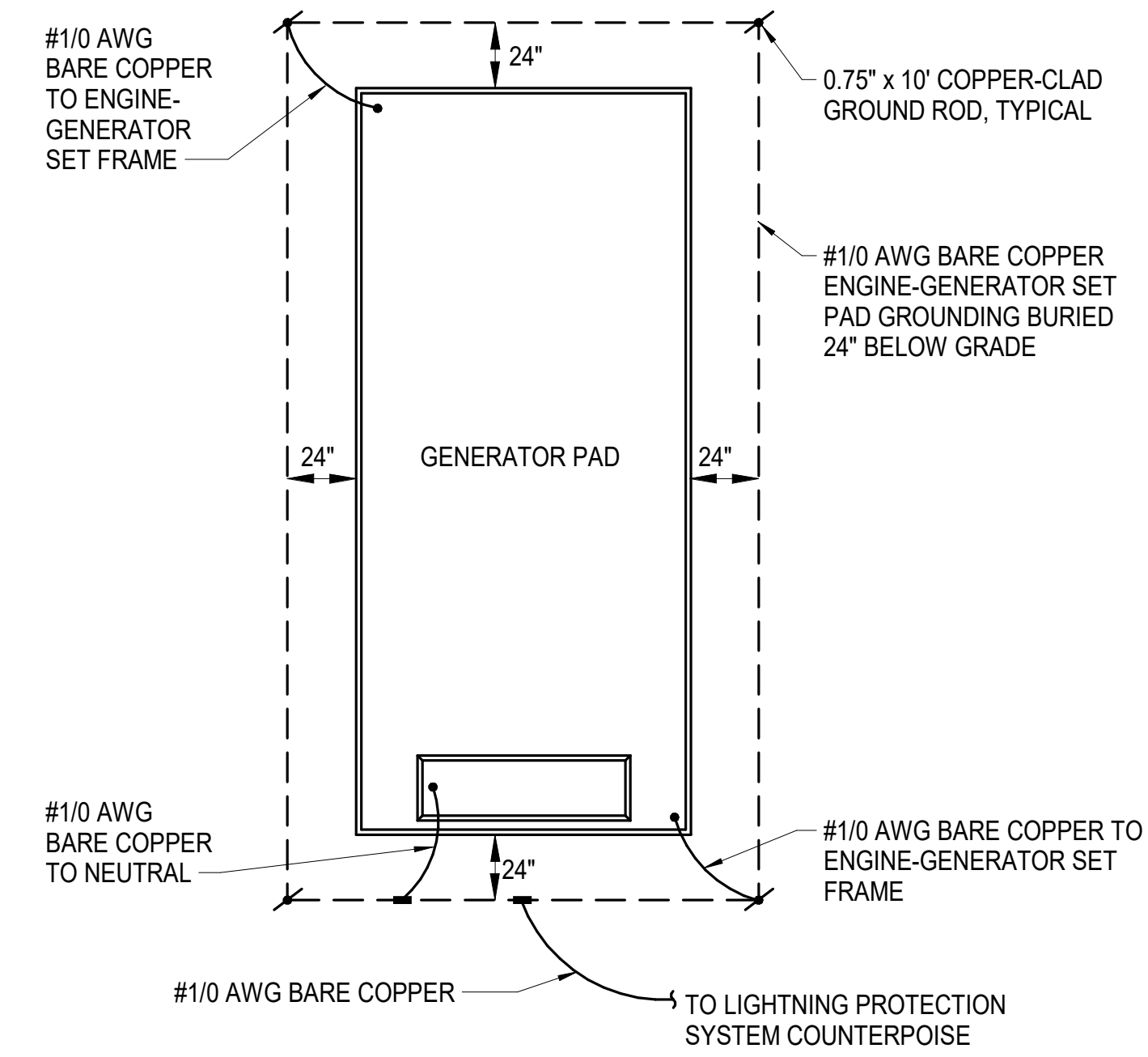
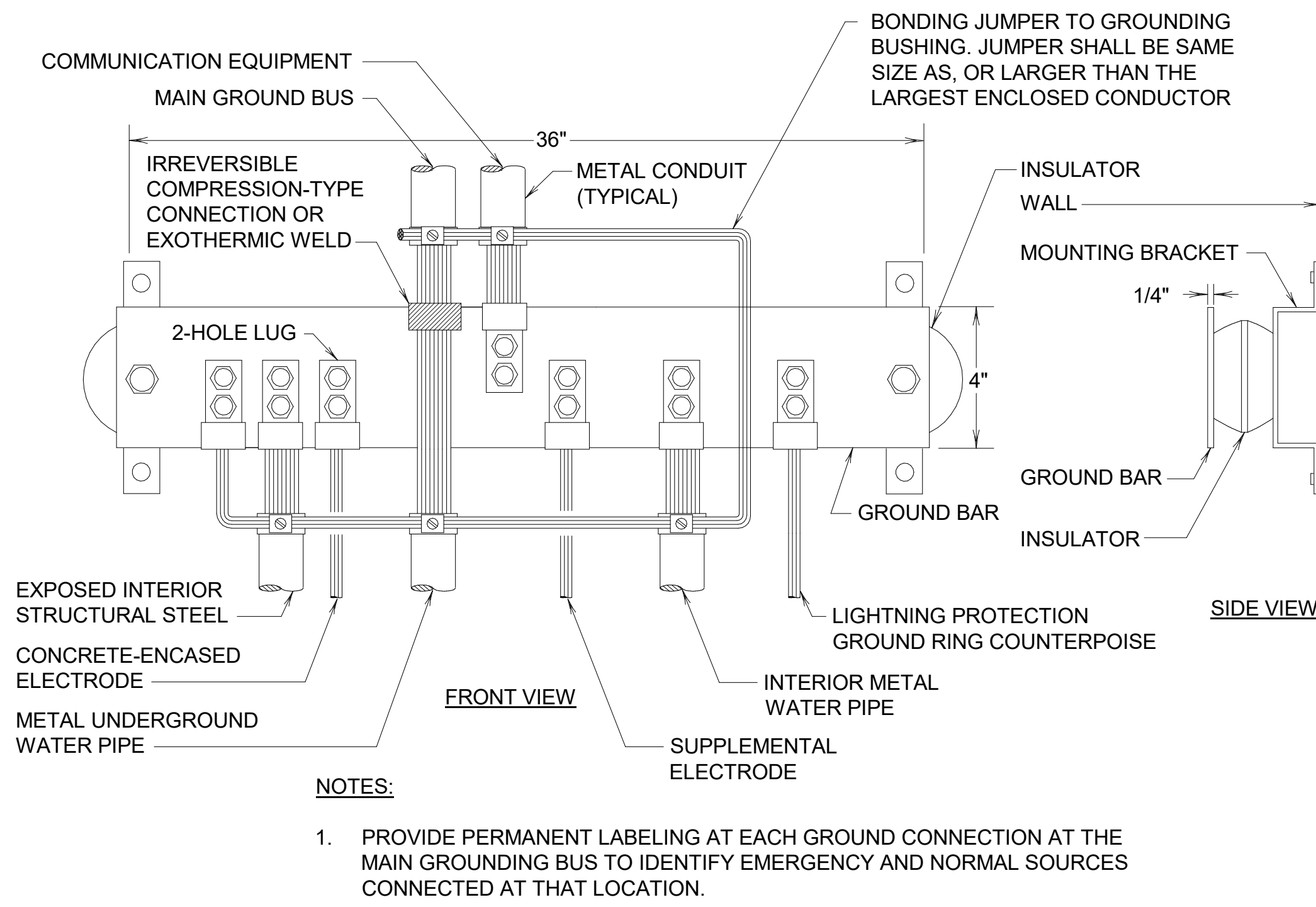
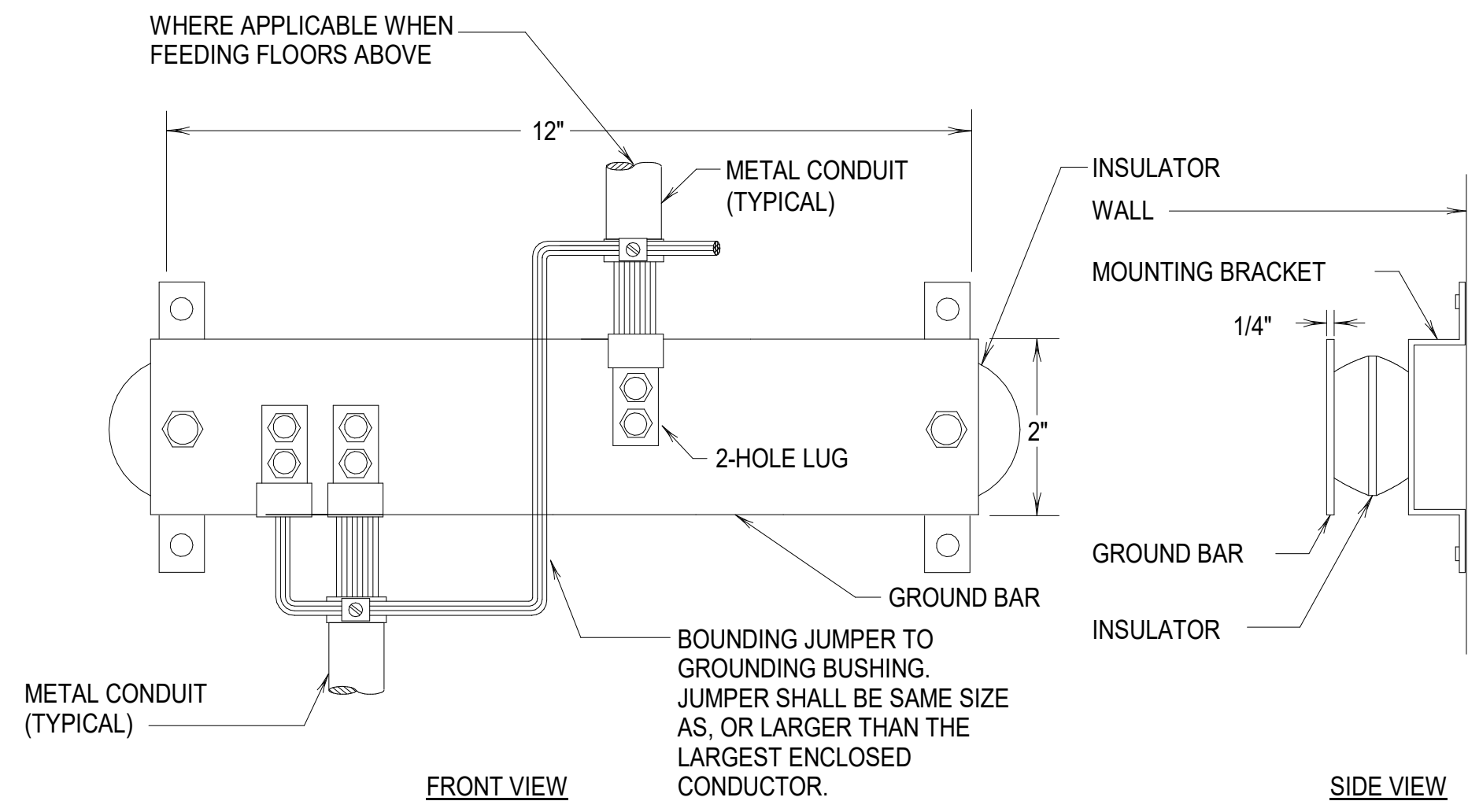
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6



THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING SIZE  
THAT THE FOLLOWING SIZE

E



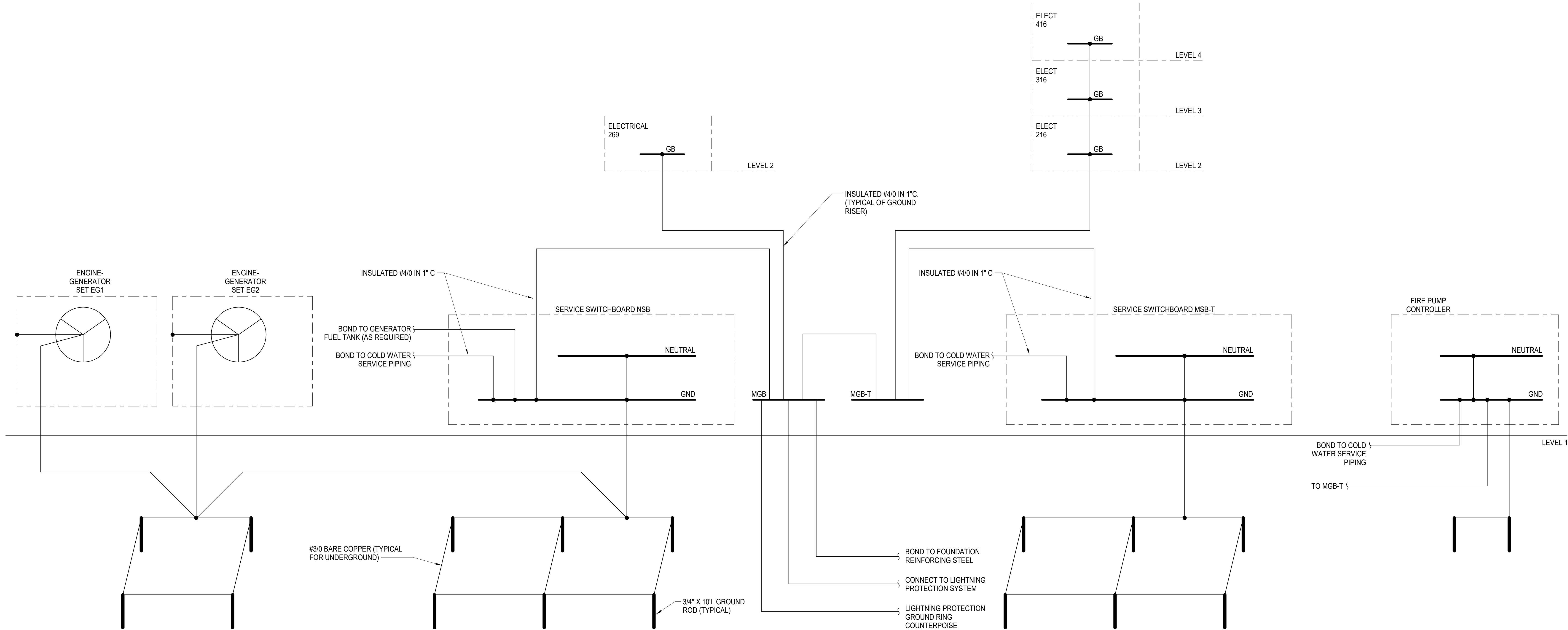
3 E-602	GROUND BAR (GB)	NTS	2 E-602	MAIN GROUND BUS BAR (MGB)	NTS	1 E-602	ENGINE-GENERATOR SET GROUNDING	NTS
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D

C

B

A



4 E-602	ELECTRICAL GROUNDING RISER DIAGRAM	NTS
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CAPE FEAR FD STONEWATER

LS3P

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

NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
ELECTRICAL DETAILS -  
GROUNDING

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

E-602

Newcomb & Boyd  
CONSULTANTS AND ENGINEERS  
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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

1/7/2021 3:18:13 PM

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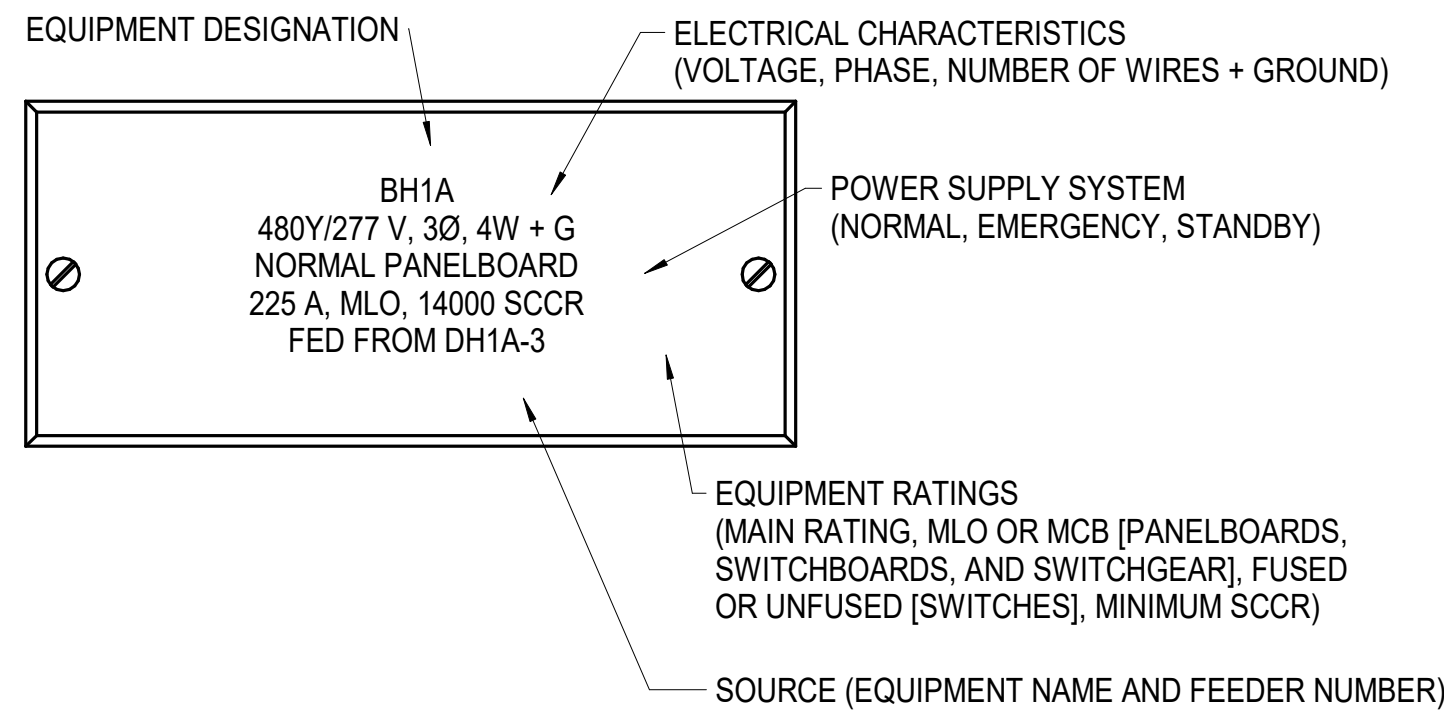
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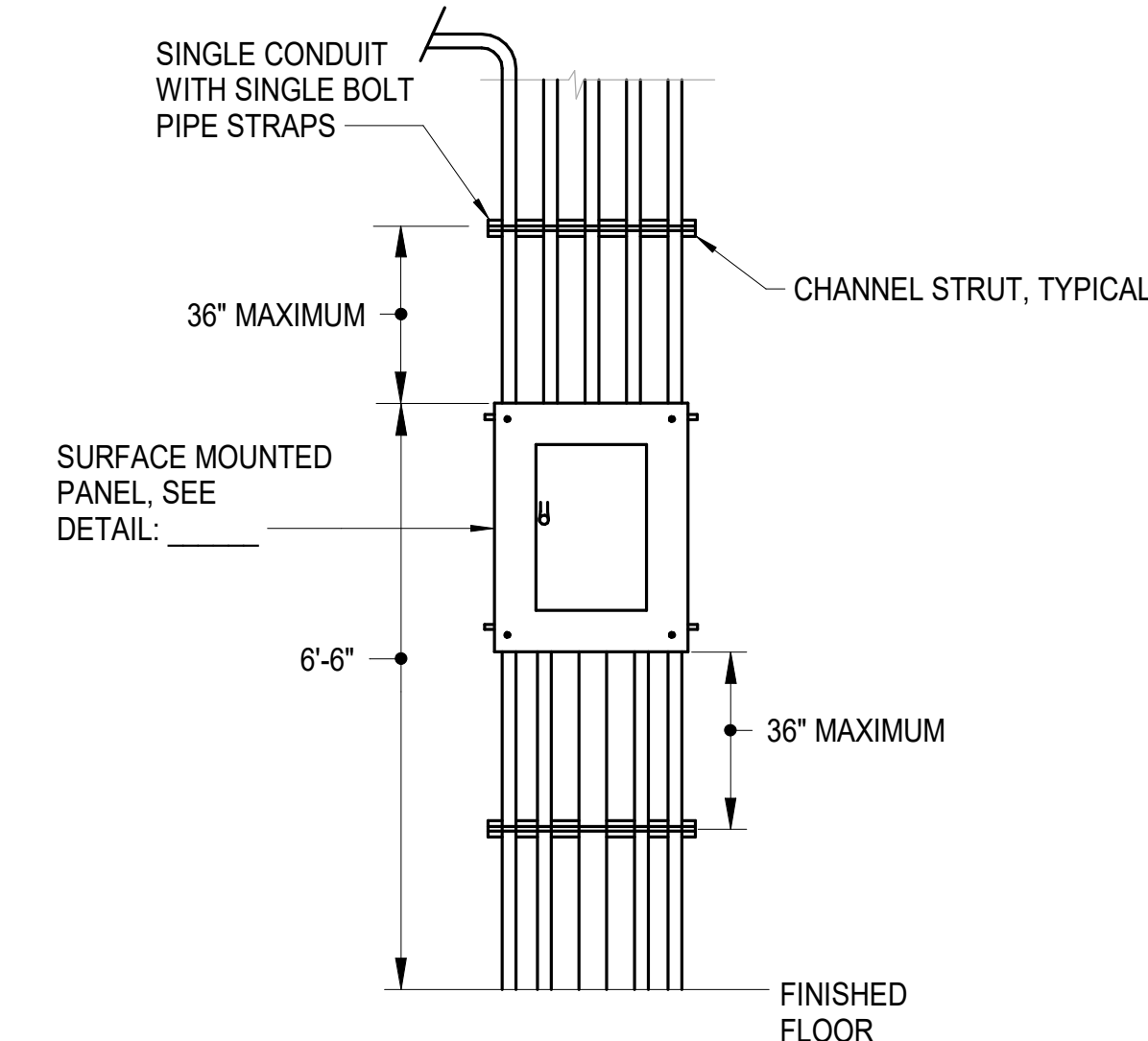
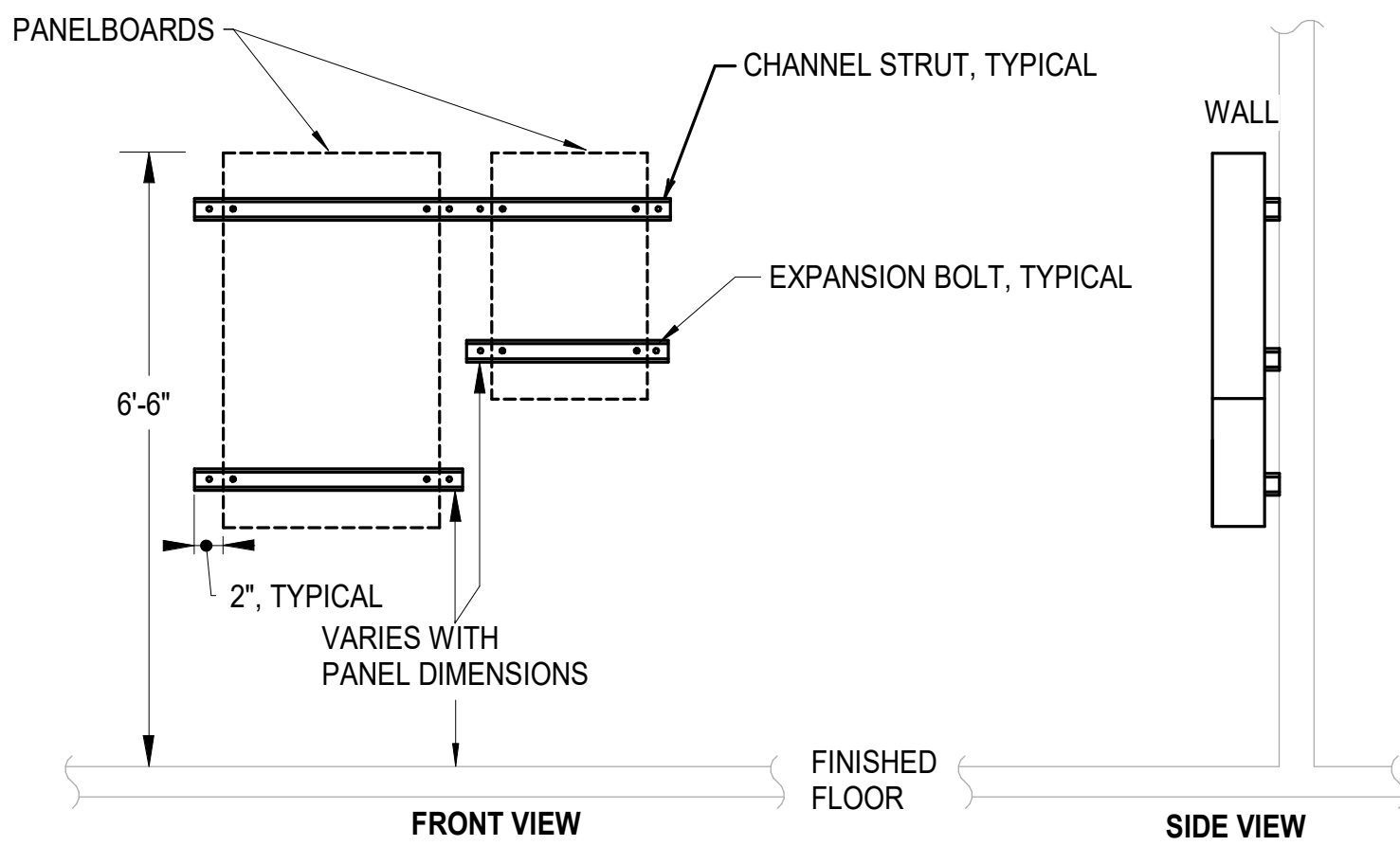
GMP SET

THE LINE SHOWN INDICATES THE BACKLASH OF THE PANELBOARD SIZE. THIS IS NOT TO SCALE.

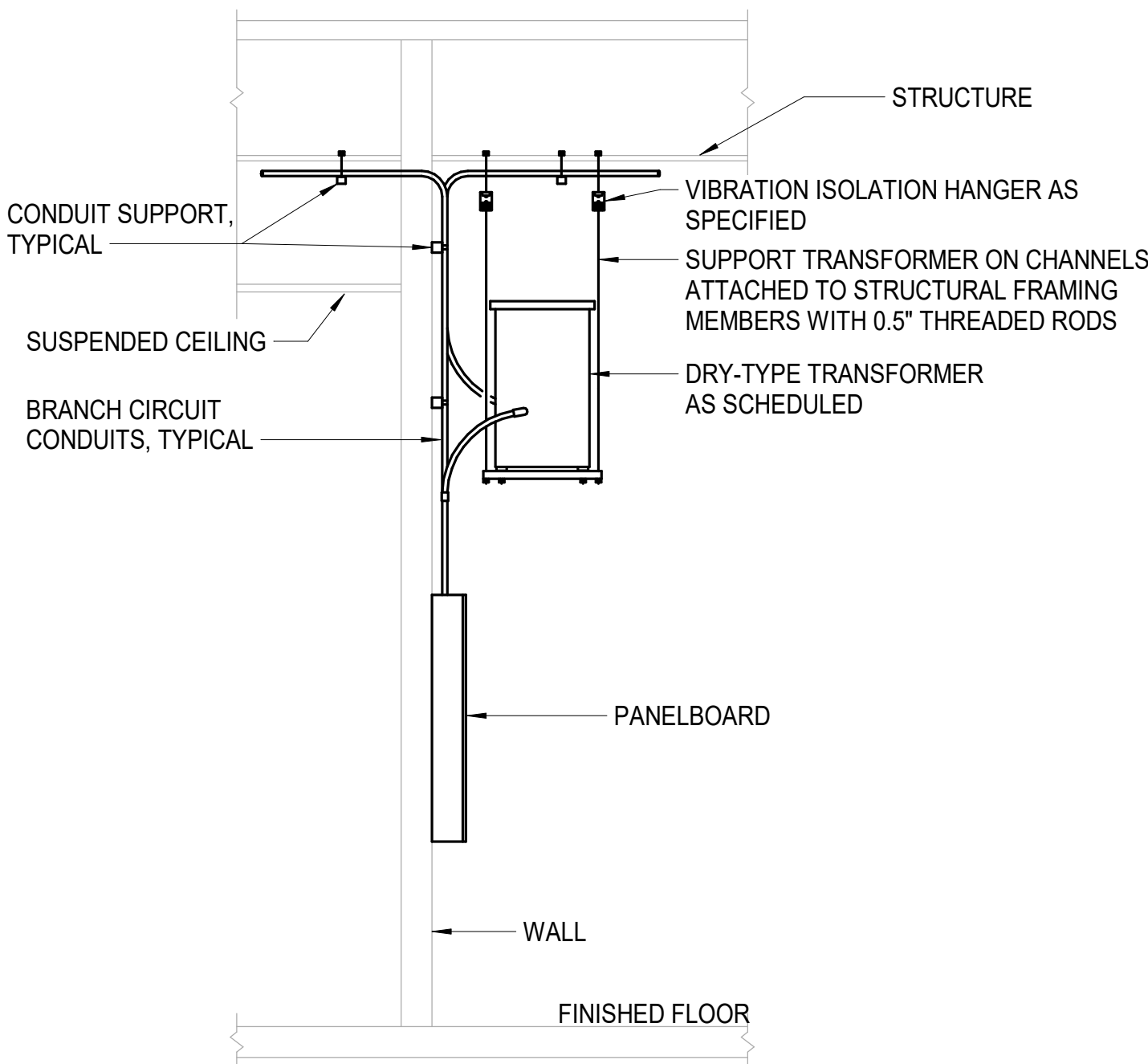
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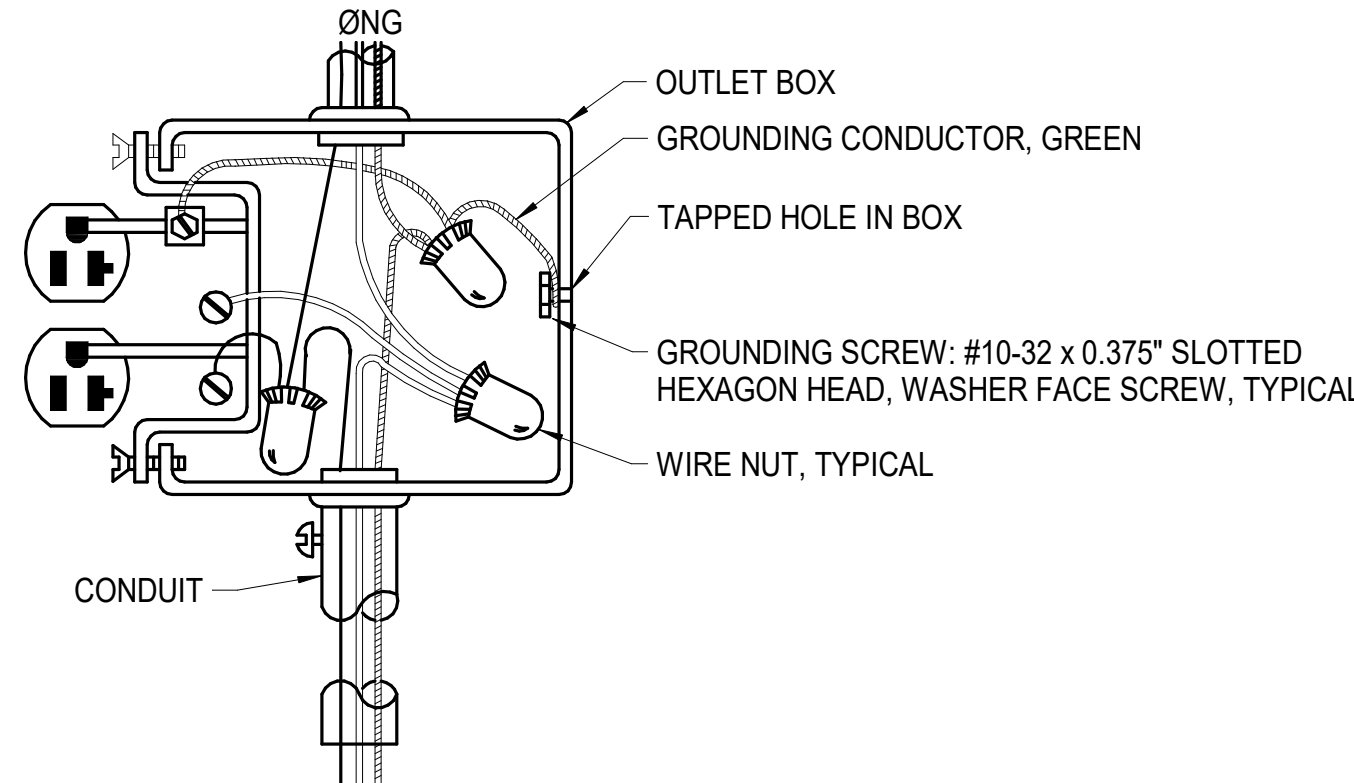
NOTES:  
1. NAMEPLATE BACKGROUND COLORS SHALL BE BLACK FOR NORMAL POWER SUPPLY SYSTEMS, RED FOR LEGALLY REQUIRED EMERGENCY POWER SUPPLY SYSTEMS, AND YELLOW FOR OPTIONAL STANDBY POWER SUPPLY SYSTEMS.



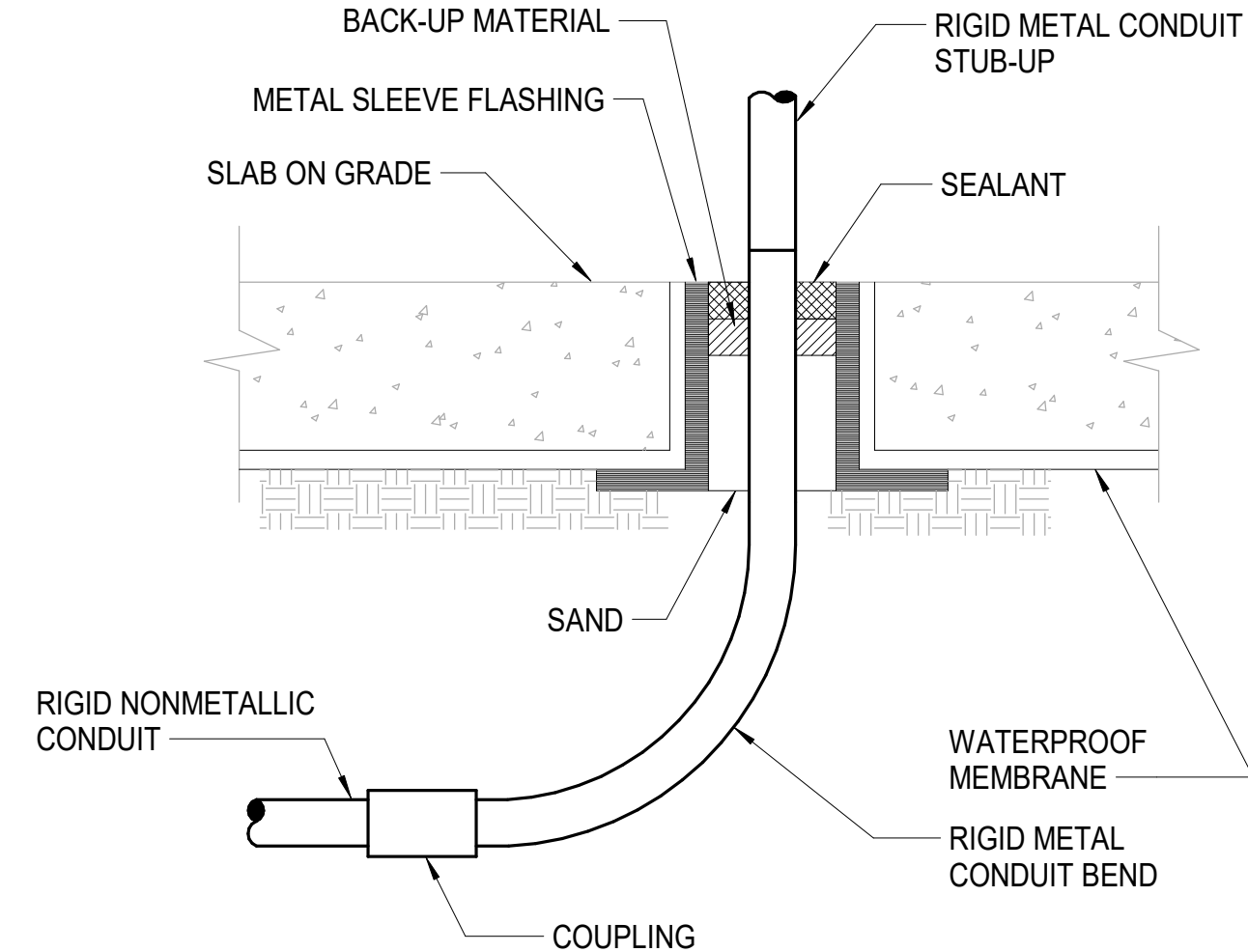
7 E-603	EQUIPMENT NAMEPLATES	NTS	4 E-603	WALL-MOUNTED PANELBOARD MOUNTING	NTS	1 E-603	CONDUIT SUPPORT FOR SURFACE-MOUNTED PANELS	NTS
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NOTES:  
1. PROVIDE ROD STIFFENER ON EACH THREADED ROD AND LATERAL SUPPORT AT EACH CORNER FOR SEISMIC RESTRAINT.

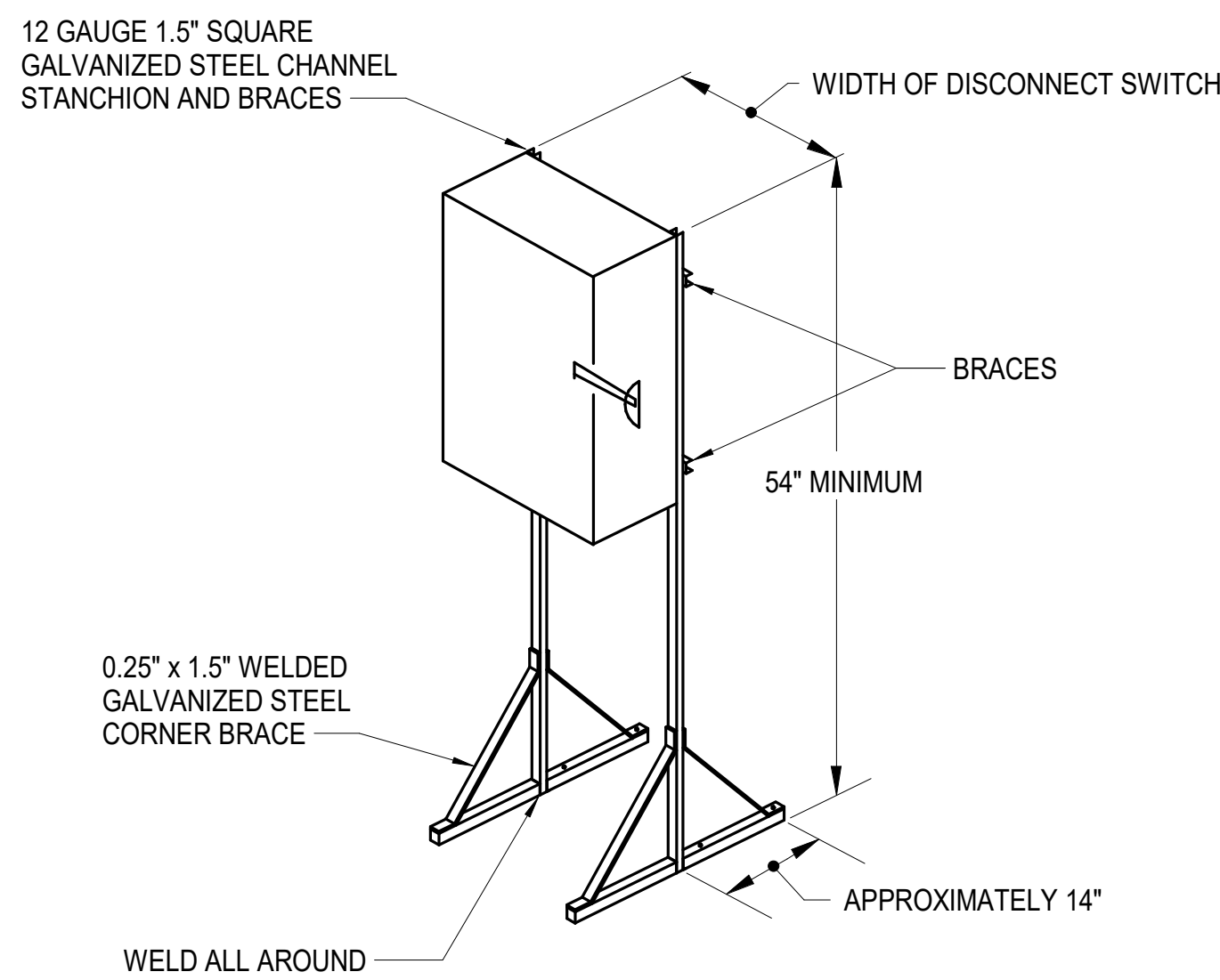


NOTES:  
1. GROUNDING CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.



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.

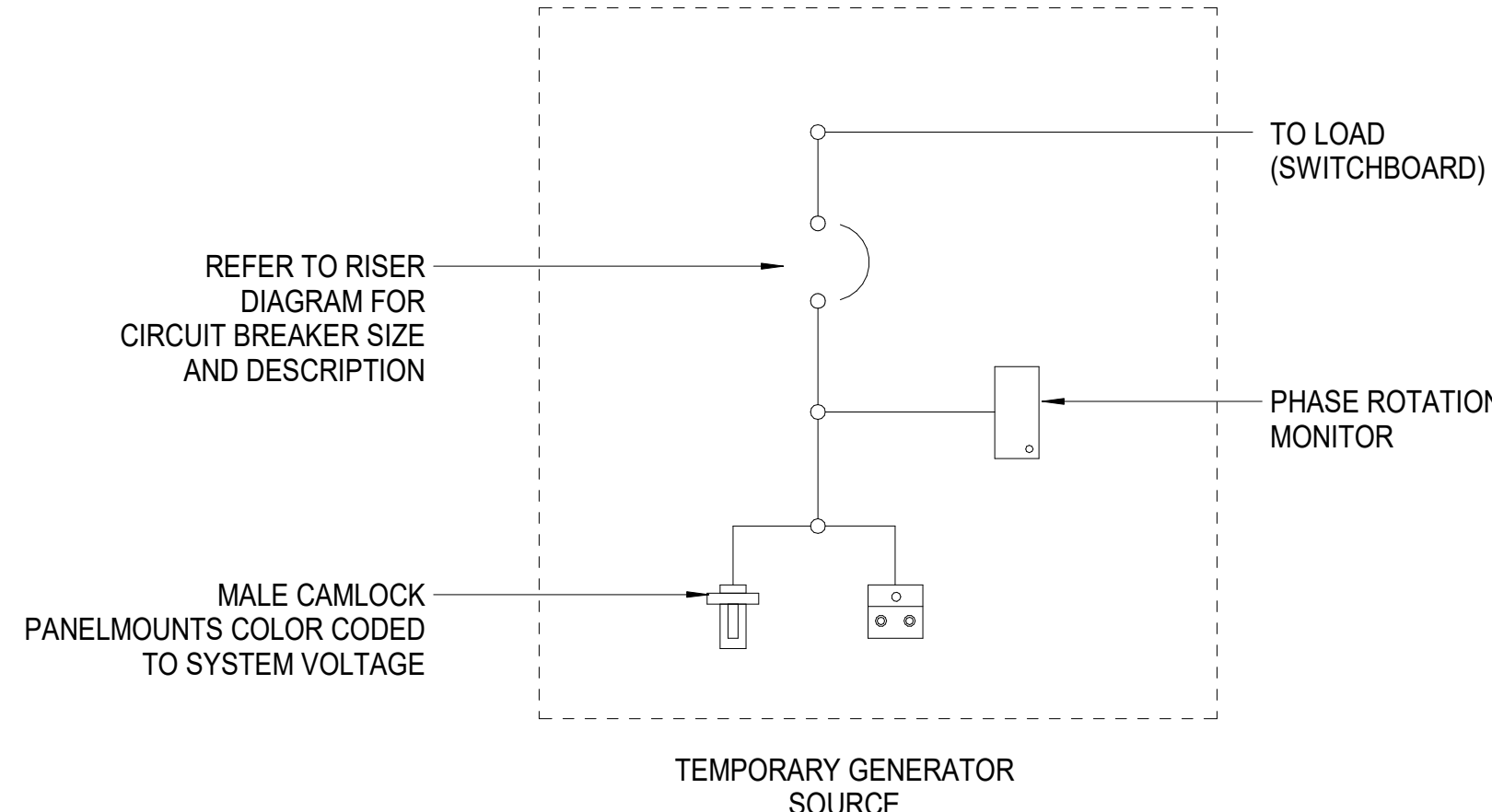
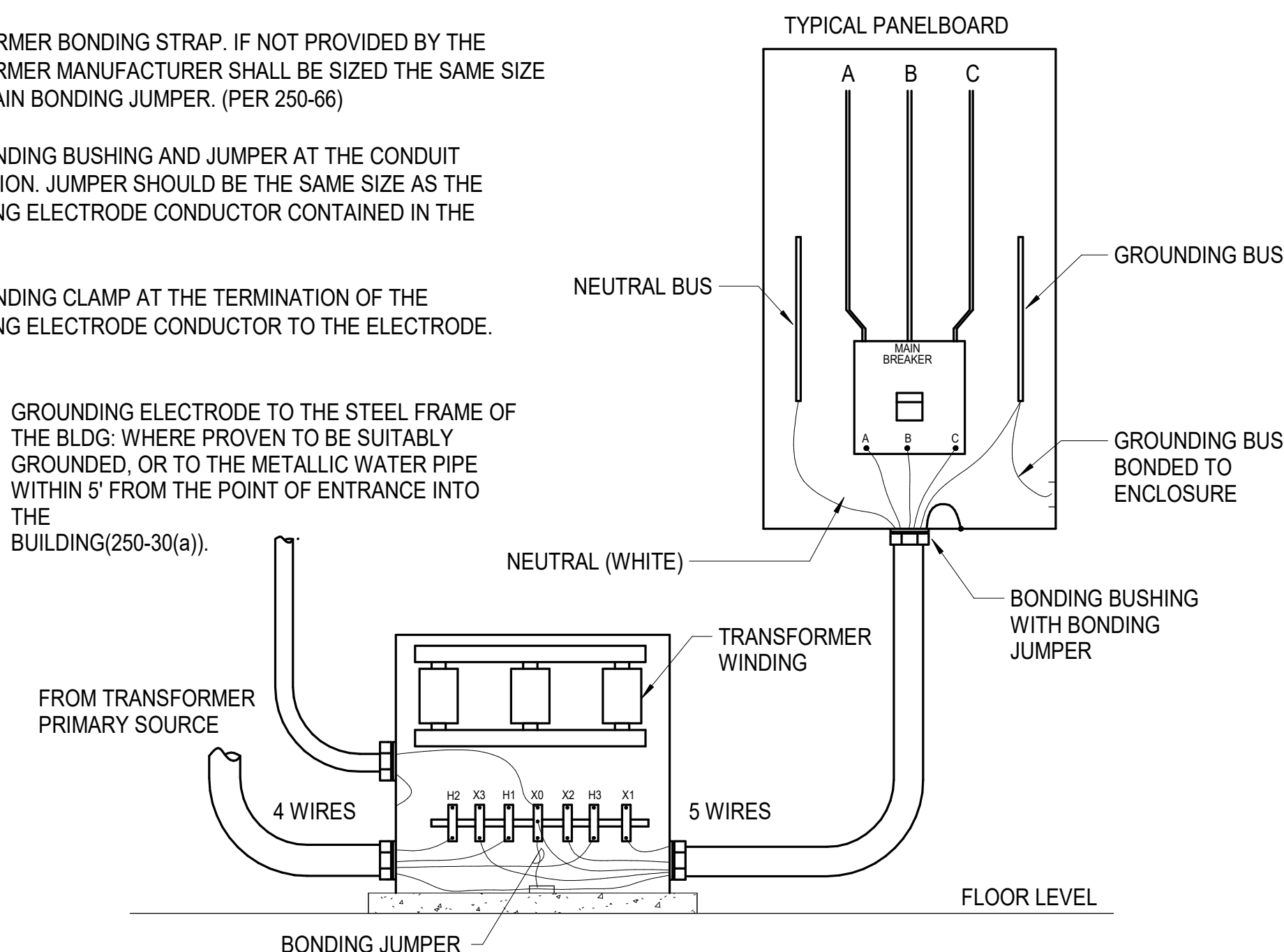
8 E-603	SUSPENDED DRY-TYPE TRANSFORMERS	NTS	5 E-603	RECEPTACLE WIRING	NTS	2 E-603	CONDUIT PENETRATIONS	NTS
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NOTES:

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.

GROUNDING ELECTRODE TO THE STEEL FRAME OF THE BLDG. WHERE PROVEN TO BE SUITABLY GROUNDED, OR TO THE METALLIC WATER PIPE WITHIN 5' FROM THE POINT OF ENTRANCE INTO THE BUILDING(250-30(a)).



NOTES:  
1. CIRCUIT BREAKER SHALL HAVE THE SAME CHARACTERISTICS AS CIRCUIT BREAKER PROVIDED IN GENERATOR.  
2. PROVIDE HARDWARE LUGS FOR TEMPORARY GENERATOR CONNECTION IN ADDITION TO MALE CAMLOCKS.  
3. PROVIDE AUTOSTART TERMINAL BLOCK.  
4. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**Newcomb & Boyd**  
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T 919 783-7812  
Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

9 E-603	DISCONNECT MOUNTING	NTS	6 E-603	DRY-TYPE TRANSFORMER GROUNDING DETAIL	NTS	3 E-603	SINGLE BREAKER GENERATOR DOCKING STATION	NTS
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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 Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
ELECTRICAL DETAILS

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

**E-603**

GMP SET

1/7/2021 3:18:17 PM





01 NORTH THIRD STREET, SUITE 500  
WILMINGTON, NORTH CAROLINA 28401  
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CONSTRUCTION

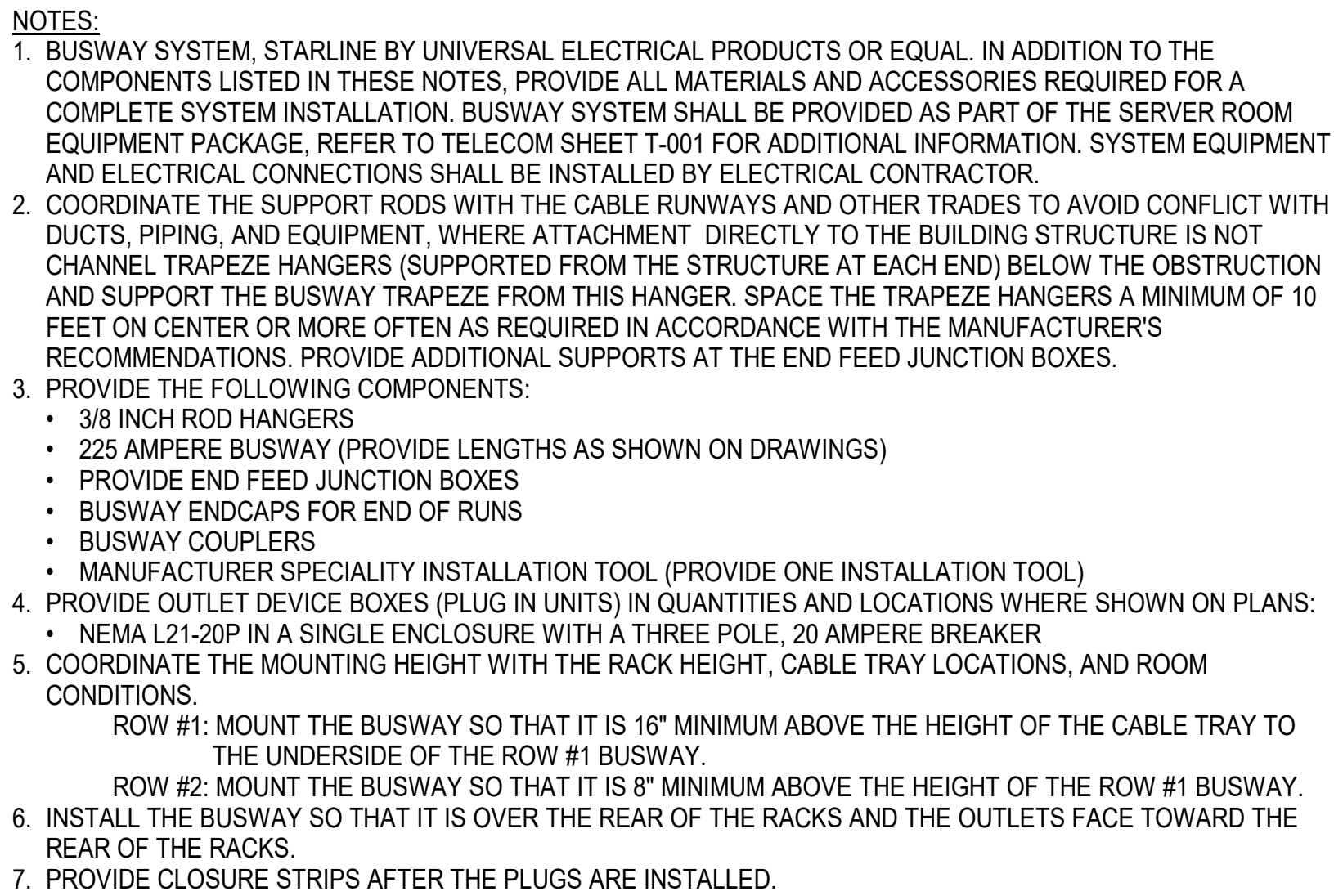
IC Government Center 7702-190810

LS3P PROJECT: 7702-190810

**SHEET NAME:**  
**ELECTRICAL DETAILS**

SHEET:

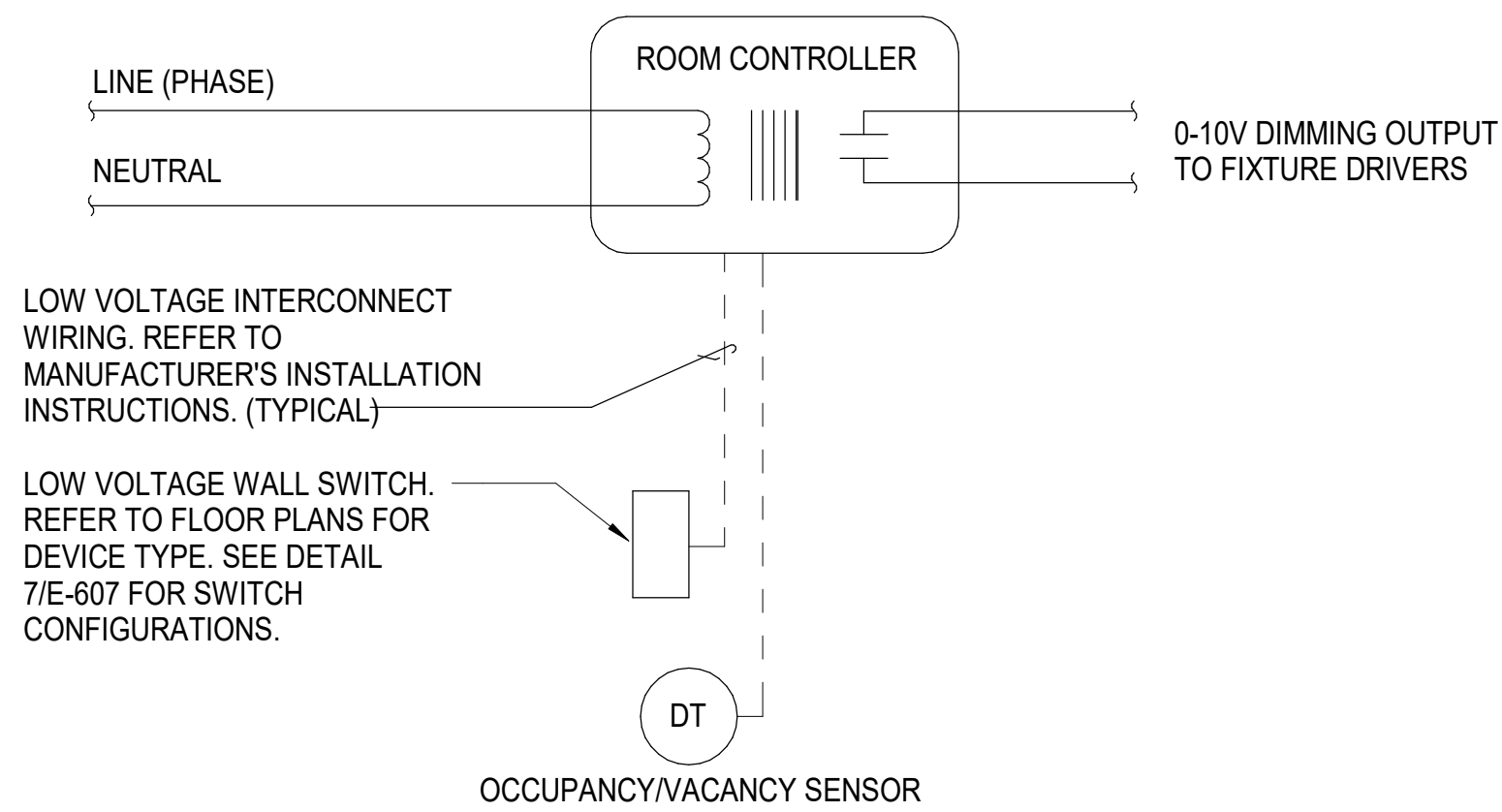
MP SET



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Suite 215  
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  
BASED ON THE FOLLOWING ASSUMPTIONS:  
1. THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING ASSUMPTIONS:  
2. THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING ASSUMPTIONS:

E

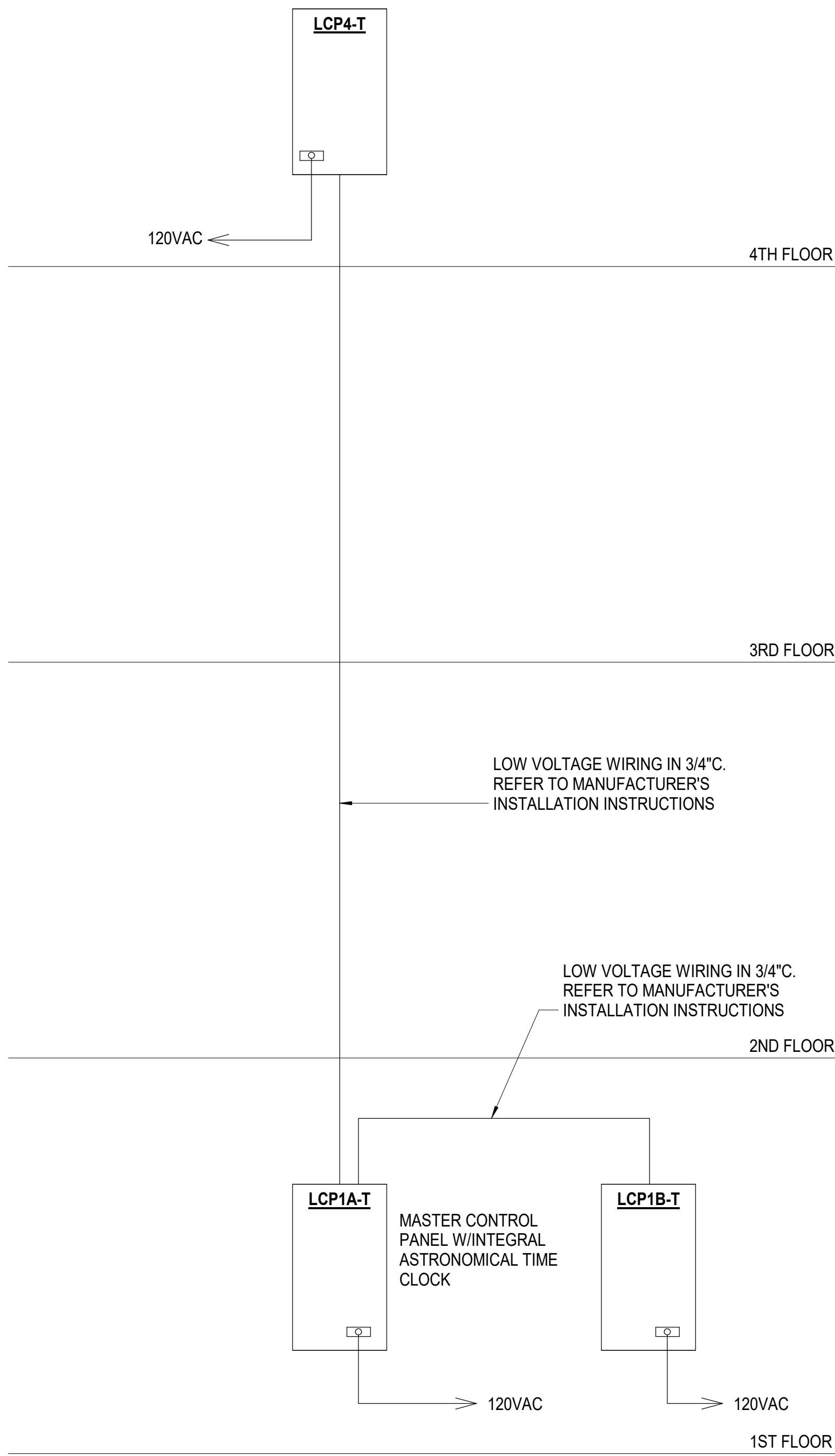


NOTES:

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. ALL ROOM CONTROLLERS SHALL BE DIMMING TYPE.
3. REFER TO FLOOR PLANS FOR QUANTITY, LOCATIONS OF SWITCHES AND NUMBER OF ZONES CONTROLLED. PROVIDE ROOM CONTROLLERS 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: ACUITY N-LIGHT, WATTSTOPPER DLM OR EATON GREENGATE.

D

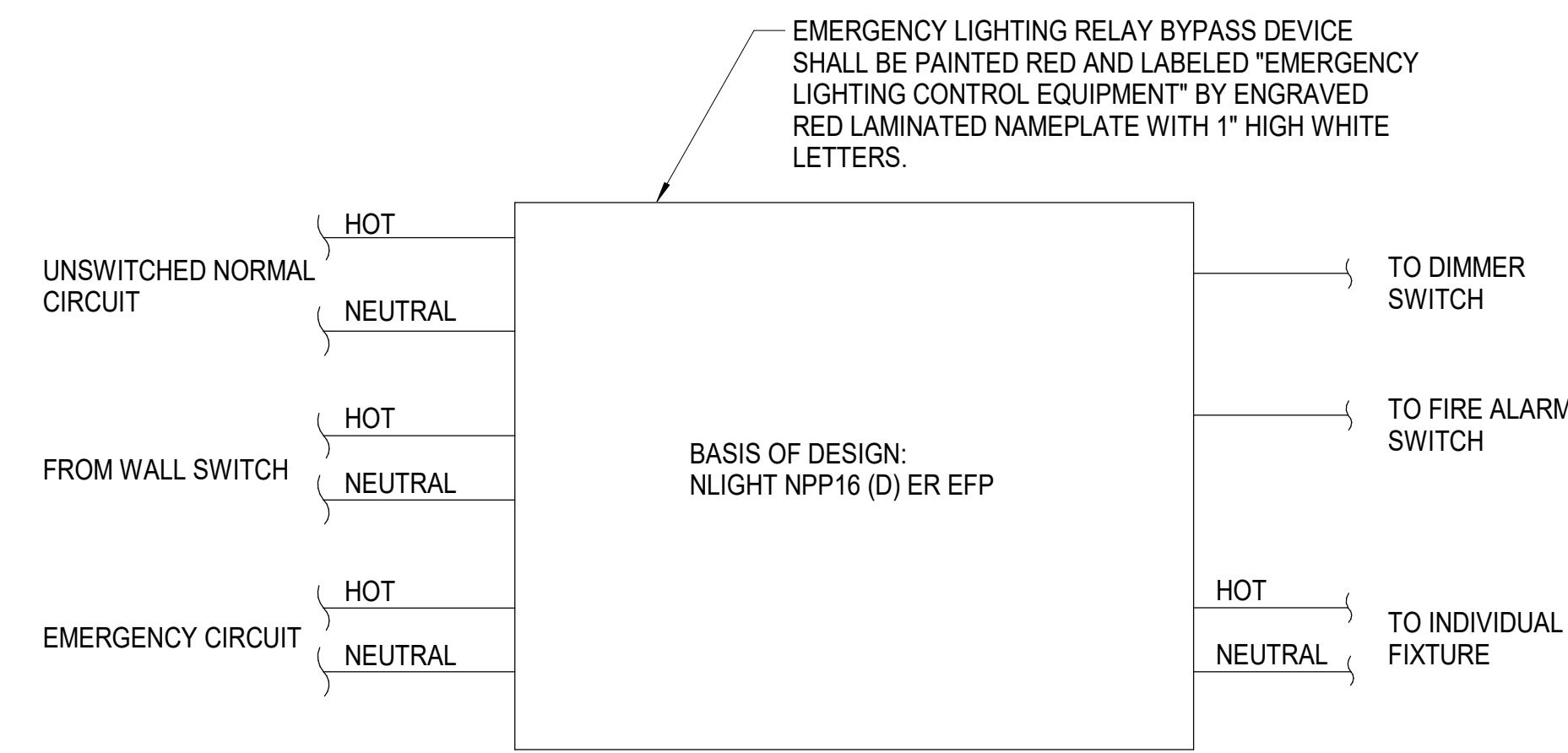
5 E-607	LOW VOLTAGE LIGHTING CONTROL SYSTEM DIAGRAM	NTS	3 E-607	EOC BUILDING EMERGENCY LIGHTING RELAY SCHEME	NTS	1 E-607	EOC BUILDING LIGHTING CONTROL RELAY PANEL RISER DIAGRAM	NTS
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C

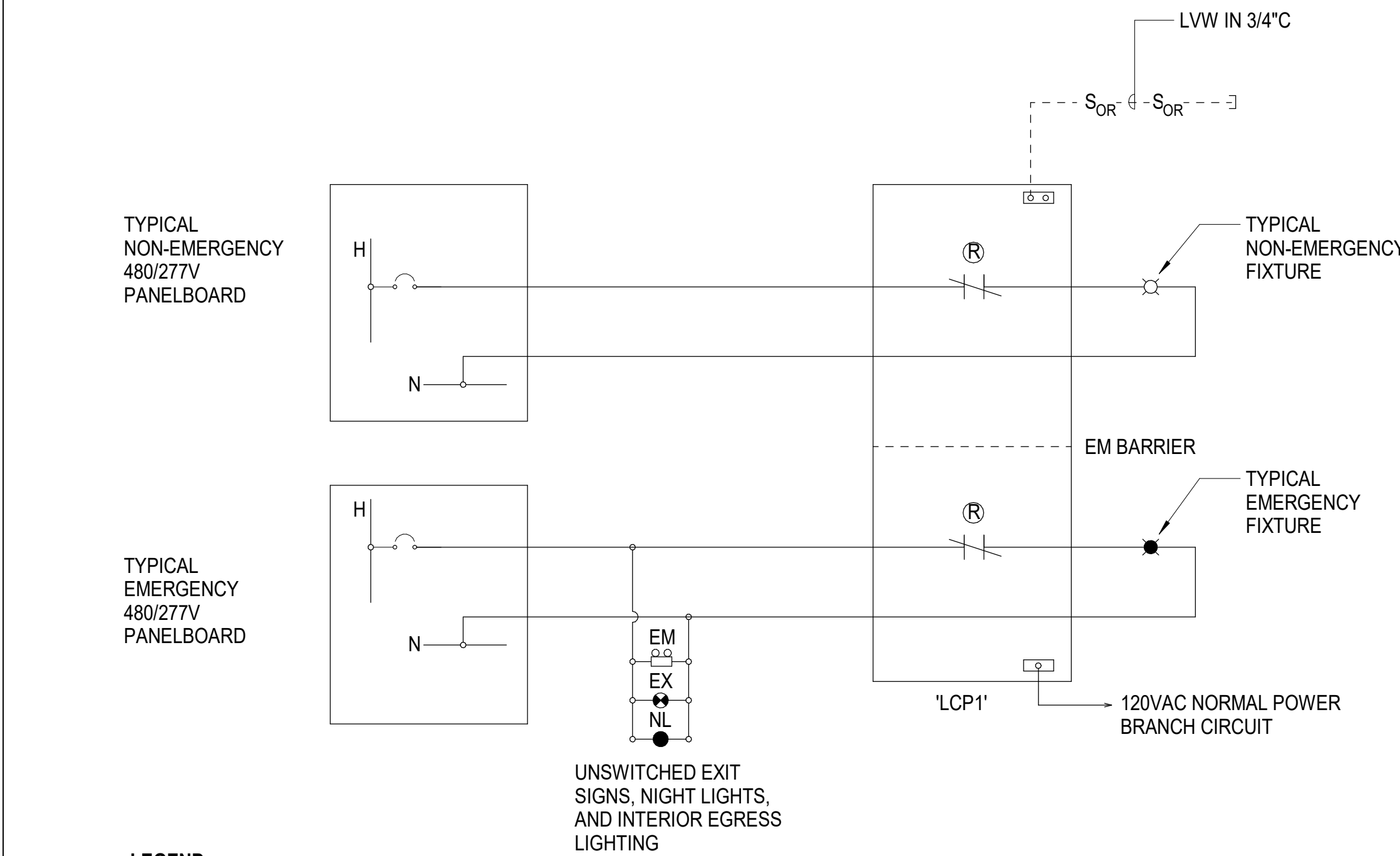
B

A



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.



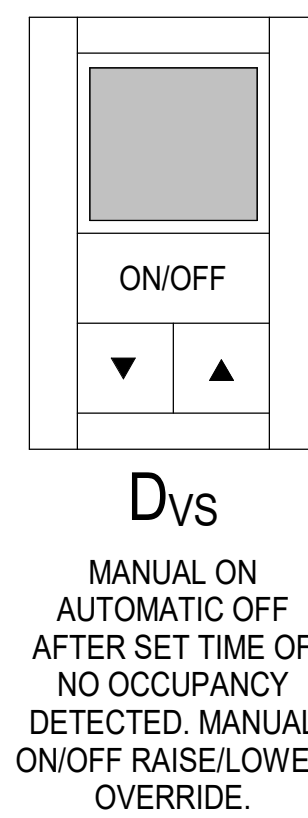
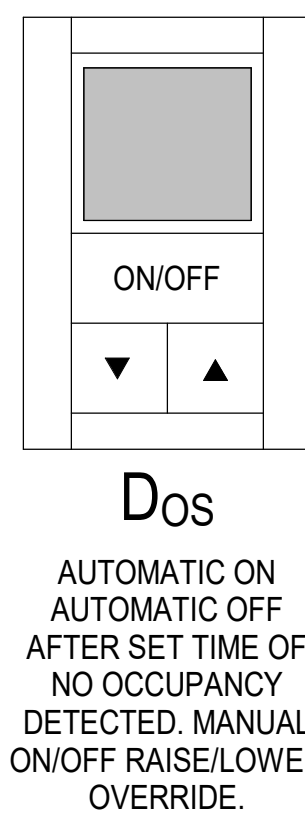
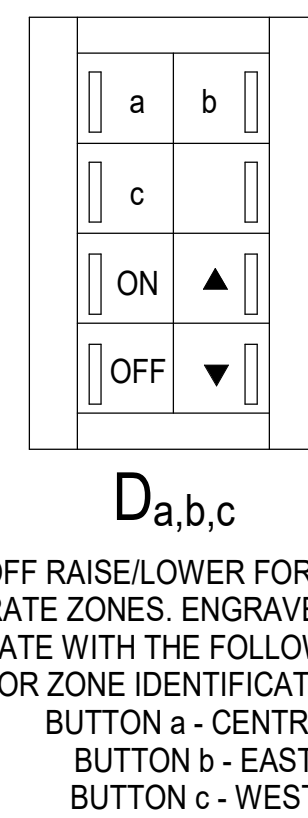
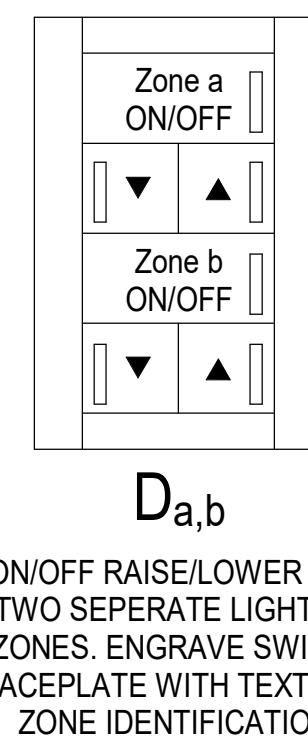
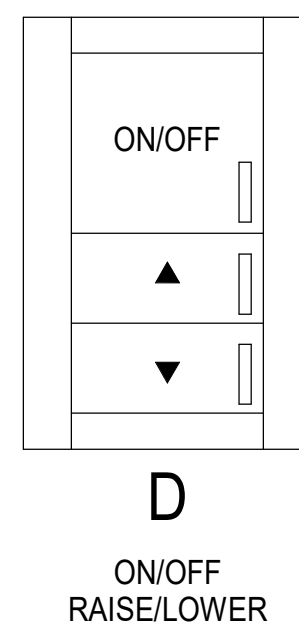
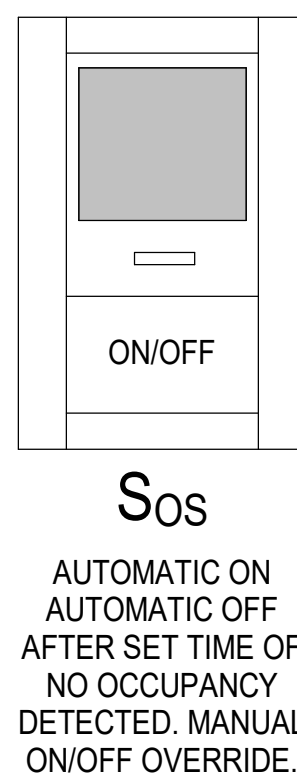
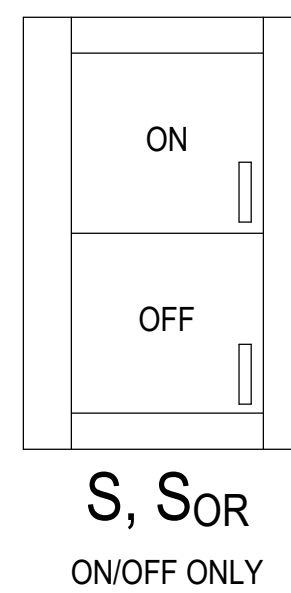
LEGEND

- S<sub>OR</sub> LOW VOLTAGE OVERRIDE SWITCH  
(R) LOW VOLTAGE RELAY  
LCP LIGHTING CONTROL PANEL  
LVW LOW VOLTAGE DATA CABLE PER MFR RECOMMENDATIONS

NOTES:

1. PROVIDE LIGHTING RELAY PANEL WITH NUMBER OF RELAYS AS INDICATED ON THE RELAY PANEL SCHEDULE INCLUDING NORMAL AND EMERGENCY RELAYS, EQUIVALENT TO WATTSTOPPER LMCP SERIES.

4 E-607	EOC BUILDING LIGHTING CONTROL RELAY PANEL DIAGRAM	NTS	2 E-607	TOWER BUILDING LIGHTING CONTROL RELAY PANEL DIAGRAM	NTS
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BASIS OF DESIGN: ACUITY N-LIGHT  
APPROVED EQUALS: WATTSTOPPER DLM OR EATON GREENGATE  
REFER TO THE FLOOR PLANS FOR TYPES AND LOCATIONS.

6 E-607	TOWER BUILDING LIGHTING CONTROL RELAY PANEL RISER DIAGRAM	NTS	7 E-607	TYPICAL LOW VOLTAGE LIGHTING SWITCH CONFIGURATIONS	NTS
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Firm License No. F-0312



CAPE FEAR FD STONEWATER

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WWW.LS3P.COM

NOT FOR  
CONSTRUCTION

NHC Government Center 7702-190810

**NEW HANOVER COUNTY**  
**GOVERNMENT CENTER**  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
ELECTRICAL DETAILS -  
LIGHTING CONTROLS

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

**E-607**

GMP SET

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

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SHEET NAME:  
ELECOM - SITE PLAN

DATE: 2020.12.16  
CURRENT: 2021.01.08  
ADDENDUM #2

**MEET:**

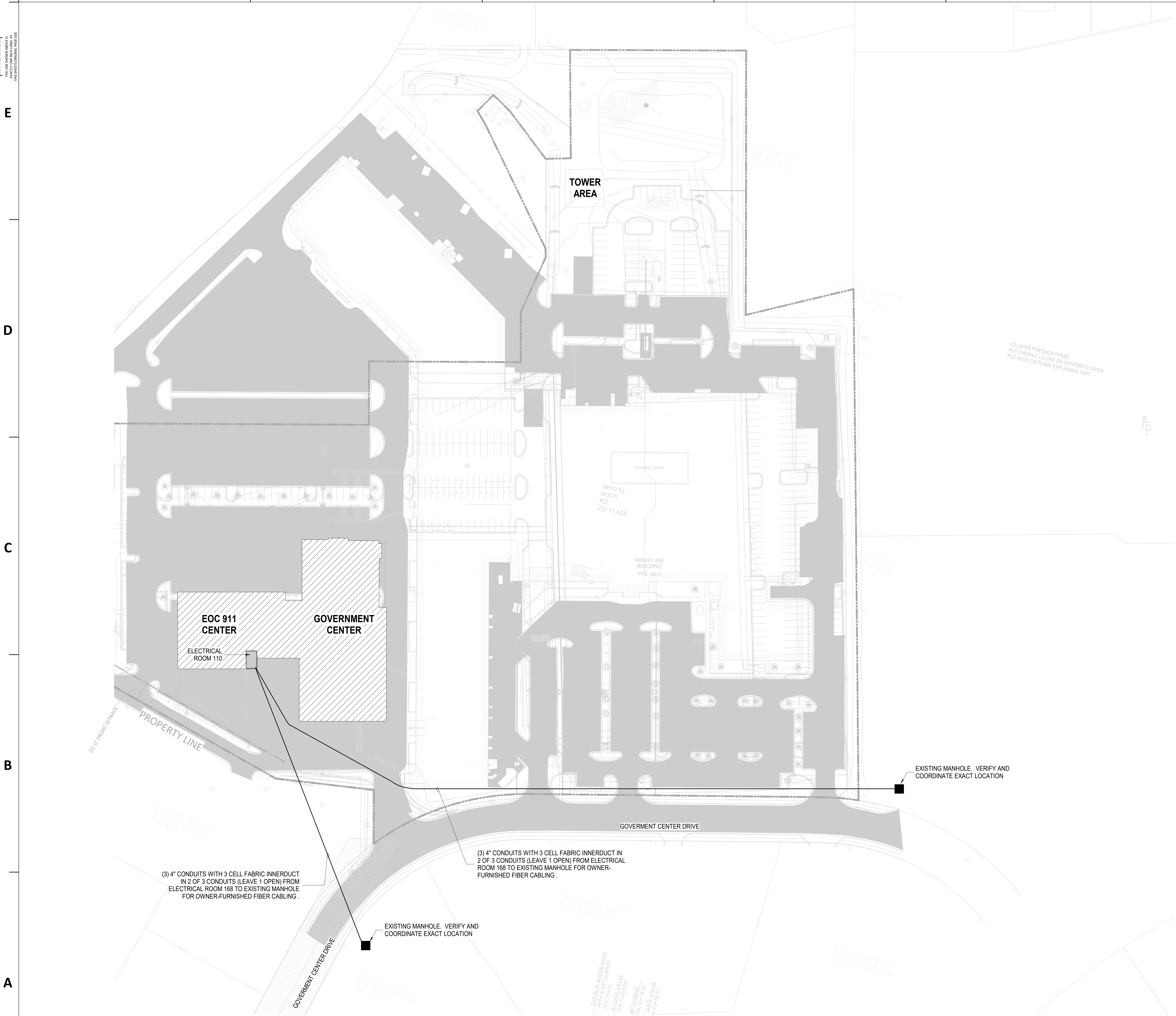
# Г-100

## COMP SET

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 DIAGNOSTIC 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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Firm License No. F-0312



1	TELECOM SITE PLAN
T-100	

**1" = 50'-0"**

THE LINE SHOWN INDICATES  
THE LOCATION OF THE  
CABLES ON THE FLOORING OF  
THIS SHEET. SEE THE  
GENERAL NOTES.

E

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C

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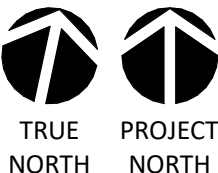
A

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1  
T-101A

TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A

1/8" = 1'-0"

0 4' 8' 16'



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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

**GENERAL NOTES:**

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN COMM ROOM 103.
2. CONTRACTOR MUST COORDINATE AND VERIFY AV OUTLET LOCATIONS WITH AV DRAWINGS AND TERMINATE ALL AV CABLING ON THIS SHEET IN AV CABINET ROOM 151.
3. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.
4. AV TOUCH PANEL NEEDS 1 DROP @ 48" AFF. DROP SHOULD BE TERMINATED IN A MALE RJ45 AND INSTALLED WITHIN THE AV BOX (T1 OR T2). COORDINATE WITH AV AND ARCHITECTURAL DRAWINGS.



CAPE FEAR FD STONEWATER

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WWW.LS3P.COM

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CONSTRUCTION

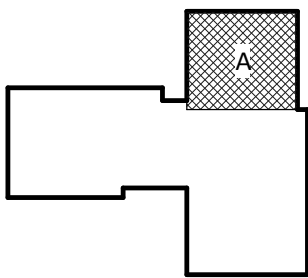
NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



**SHEET NAME:**  
TELECOM FLOOR  
PLAN - LEVEL 1 - AREA  
A

**DATE:** 2020.12.16  
**CURRENT:** 2021.01.08

ADDENDUM #2

**SHEET:**

**T-101A**

GMP SET

THE LINE SHOWN ABOVE  
IS BACK TO THE FOLLOWING  
THE LINE SHOWN ABOVE

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1/7/2021 3:01:16 PM

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T-101B  
TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B

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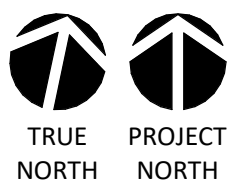
4

5

6



0 4' 8' 16'



1/8" = 1'-0"

GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN COMM ROOM 103.
2. CONTRACTOR MUST COORDINATE AND VERIFY AV OUTLET LOCATIONS WITH AV DRAWINGS AND TERMINATE ALL AV CABLING ON THIS SHEET IN AV CABINET ROOM 151.
3. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.
4. AV TOUCH PANEL NEEDS 1 DROP @ 48" AFF. DROP SHOULD BE TERMINATED IN A MALE RJ45 AND INSTALLED WITHIN THE AV BOX (T1 OR T2). COORDINATE WITH AV AND ARCHITECTURAL DRAWINGS.

TELCOM KEY NOTES:

- (1) (4) 4" FIRESTOPPED SLEEVES



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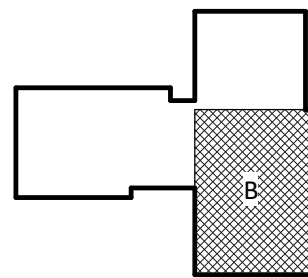
NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



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

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

T-101B

GMP SET

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



THE LINE SHOWN ABOVE  
IS A 2" FLEX CONDUIT  
WITH 1/2" RIGID CONDUIT  
THAT IS 1/2" RIGID CONDUIT

E

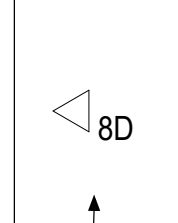
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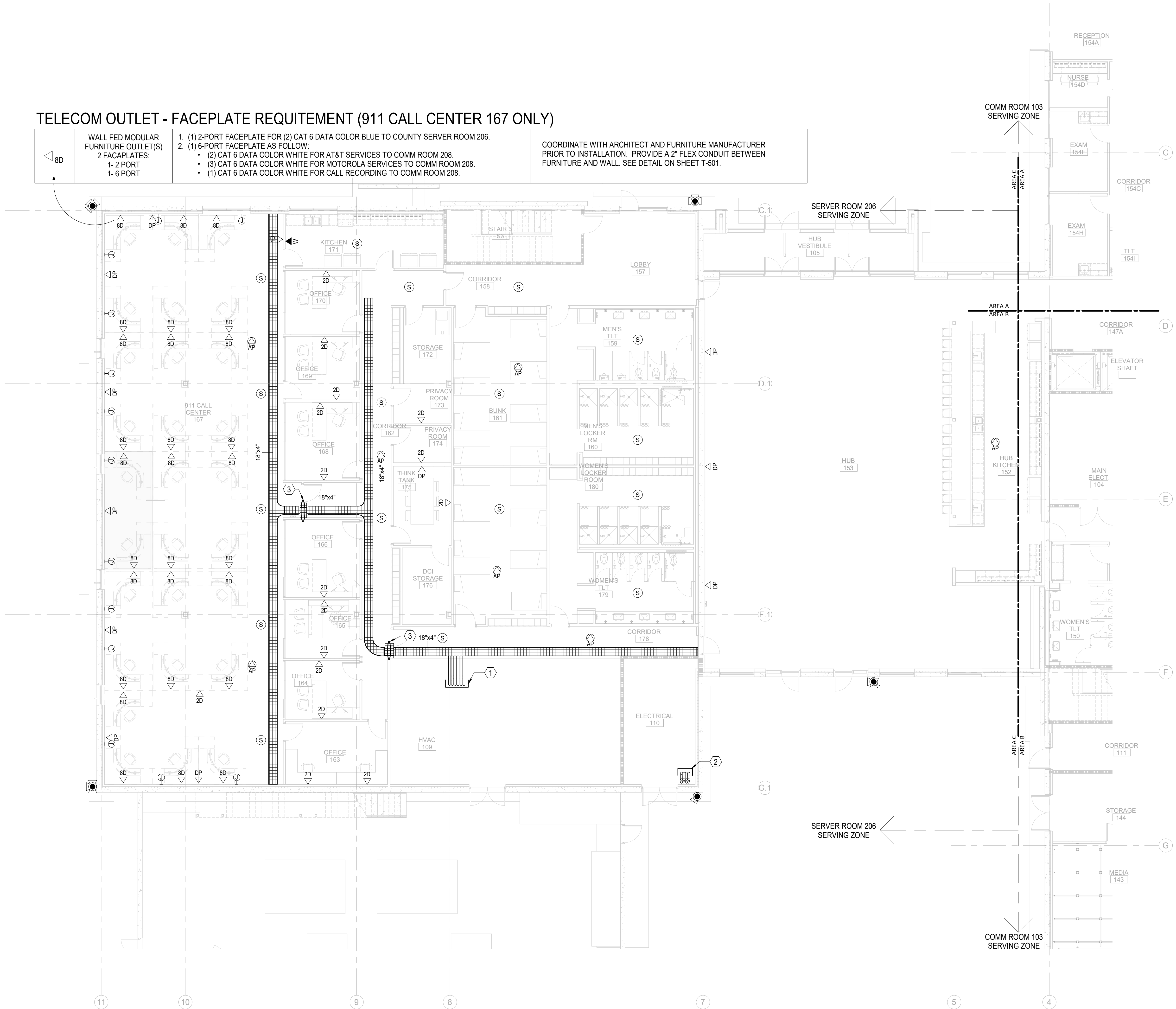
C

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### TELECOM OUTLET - FACEPLATE REQUIREMENT (911 CALL CENTER 167 ONLY)

	WALL FED MODULAR FURNITURE OUTLET(S) 2 FACAPLATES: 1- 2 PORT 1- 6 PORT	1. (1) 2-PORT FACEPLATE FOR (2) CAT 6 DATA COLOR BLUE TO COUNTY SERVER ROOM 206. 2. (1) 6-PORT FACEPLATE AS FOLLOW: • (2) CAT 6 DATA COLOR WHITE FOR AT&T SERVICES TO COMM ROOM 208. • (3) CAT 6 DATA COLOR WHITE FOR MOTOROLA SERVICES TO COMM ROOM 208. • (1) CAT 6 DATA COLOR WHITE FOR CALL RECORDING TO COMM ROOM 208.	COORDINATE WITH ARCHITECT AND FURNITURE MANUFACTURER PRIOR TO INSTALLATION. PROVIDE A 2" FLEX CONDUIT BETWEEN FURNITURE AND WALL. SEE DETAIL ON SHEET T-501.
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#### GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING CABINETS IN SERVER ROOM 206.
2. CONTRACTOR MUST COORDINATE AND VERIFY AV OUTLET LOCATIONS WITH AV DRAWINGS AND TERMINATE ALL AV CABLING ON THIS SHEET IN AV CABINET ROOM 151.
3. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.
4. AV TOUCH PANEL NEEDS 1 DROP @ 48" AFF. DROP SHOULD BE TERMINATED IN A MALE RJ45 AND INSTALLED WITHIN THE AV BOX (T1 OR T2). COORDINATE WITH AV AND ARCHITECTURAL DRAWINGS.

#### 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. FOR REFERENCE ONLY. TOWER CONDUITS FURNISHED AND INSTALLED BY TOWER PROVIDER.
- ③ (6) 4" FIRESTOPPED SLEEVES



CAPE FEAR FD STONEWATER

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WWW.LS3P.COM

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CONSTRUCTION

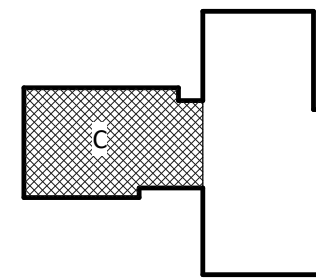
NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



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

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

T-101C

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

0 4' 8' 16'



1/8" = 1'-0"

TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C

1  
T-101C

1/7/2021 3:01:25 PM

THE LINE SHOWN ABOVE IS  
A BACKSIGHT OR FORESIGHT OF  
THE SURFACE OF THE GROUND

E

D

C

B

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1/7/2021 3:01:30 PM

1  
T-102A

TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A

1

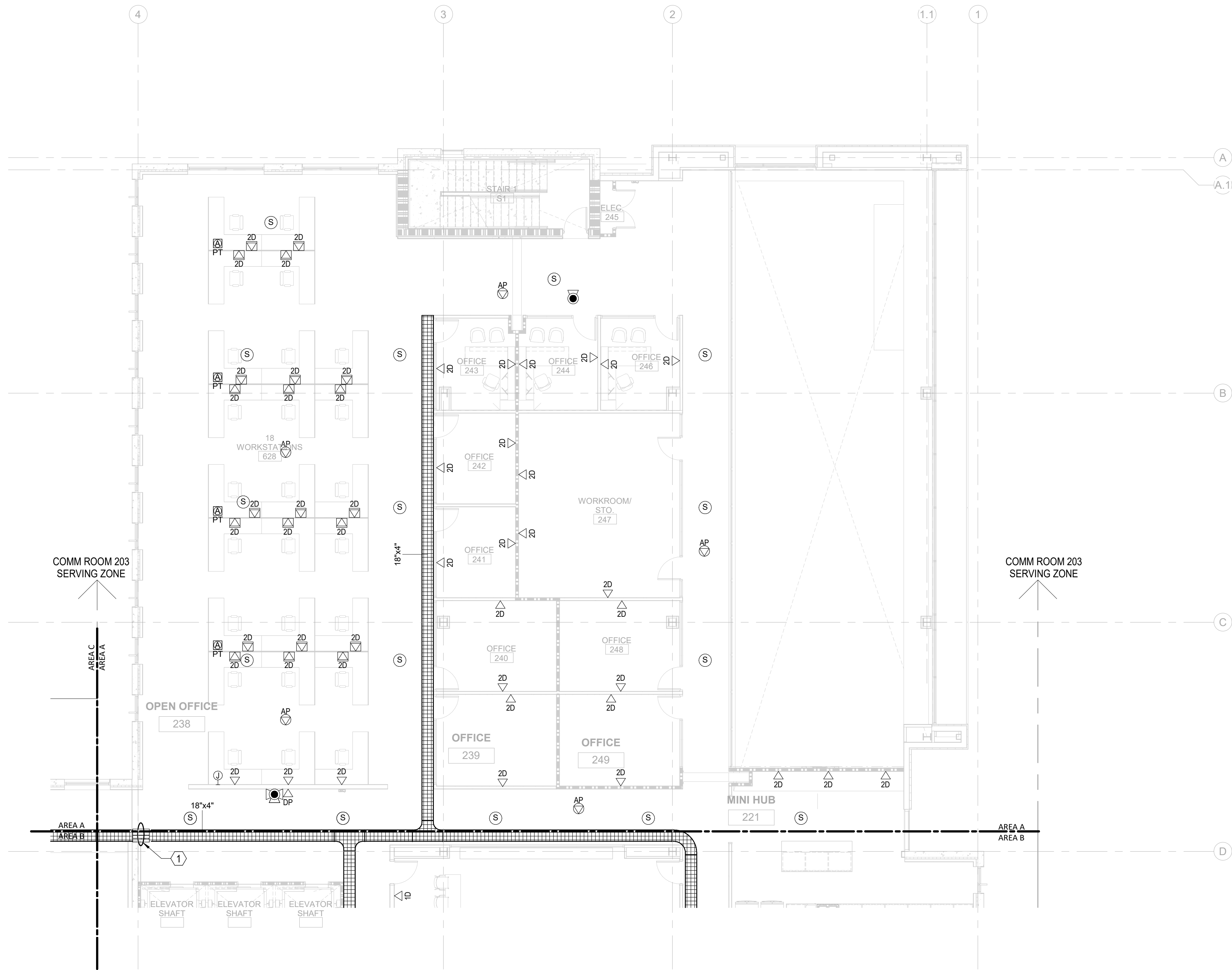
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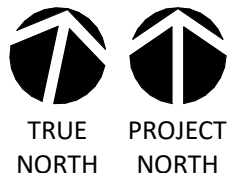
4

5

6



0 4' 8' 16'



1/8" = 1'-0"

GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN COMM ROOM 203.
2. CONTRACTOR MUST COORDINATE AND VERIFY AV OUTLET LOCATIONS WITH AV DRAWINGS AND TERMINATE ALL AV CABLING ON THIS SHEET IN AV CABINET ROOM 151 VIA COMM ROOM 203 VERTICAL PATHWAY.
3. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.
4. AV TOUCH PANEL NEEDS 1 DROP @ 48" AFF. DROP SHOULD BE TERMINATED IN A MALE RJ45 AND INSTALLED WITHIN THE AV BOX (T1 OR T2). COORDINATE WITH AV AND ARCHITECTURAL DRAWINGS.

TELCOM KEY NOTES:

- (1) (6) 4" FIRESTOPPED SLEEVES



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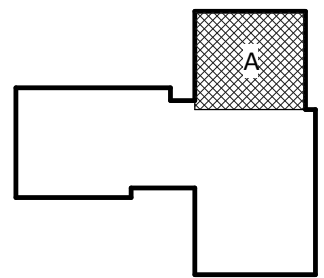
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CONSTRUCTION

NHC Government Center 7702-190810

NEW HANOVER COUNTY  
GOVERNMENT CENTER  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



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

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

T-102A

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

THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING SIZE  
THIS IS NOT A SCALE

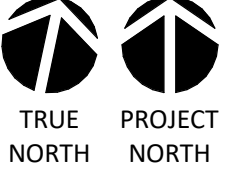
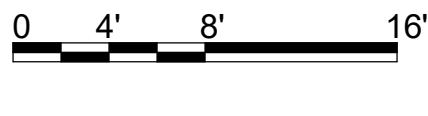
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GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN COMM ROOM 203.
2. CONTRACTOR MUST COORDINATE AND VERIFY AV OUTLET LOCATIONS WITH AV DRAWINGS AND TERMINATE ALL AV CABLING ON THIS SHEET IN AV CABINET ROOM 151 VIA COMM ROOM 203 VERTICAL PATHWAY.
3. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.
4. AV TOUCH PANEL NEEDS 1 DROP @ 48" AFF. DROP SHOULD BE TERMINATED IN A MALE RJ45 AND INSTALLED WITHIN THE AV BOX (T1 OR T2). COORDINATE WITH AV AND ARCHITECTURAL DRAWINGS.

TELCOM KEY NOTES:

- ① (6) 4" FIRESTOPPED SLEEVES



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 Government Center 7702-190810

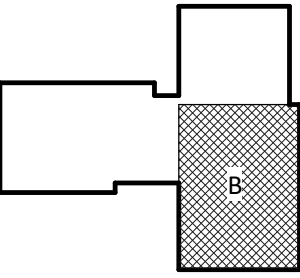
NEW HANOVER COUNTY  
GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



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

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

T-102B

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



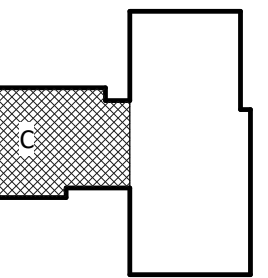
NOT FOR  
CONSTRUCTION

IC Government Center 7702-190810

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

[illegible]

KEY PLAN:



HEET NAME:  
TELECOM FLOOR  
LAN - LEVEL 2 - AREA  
C

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**HEET:**

**-102C**

## MP SET

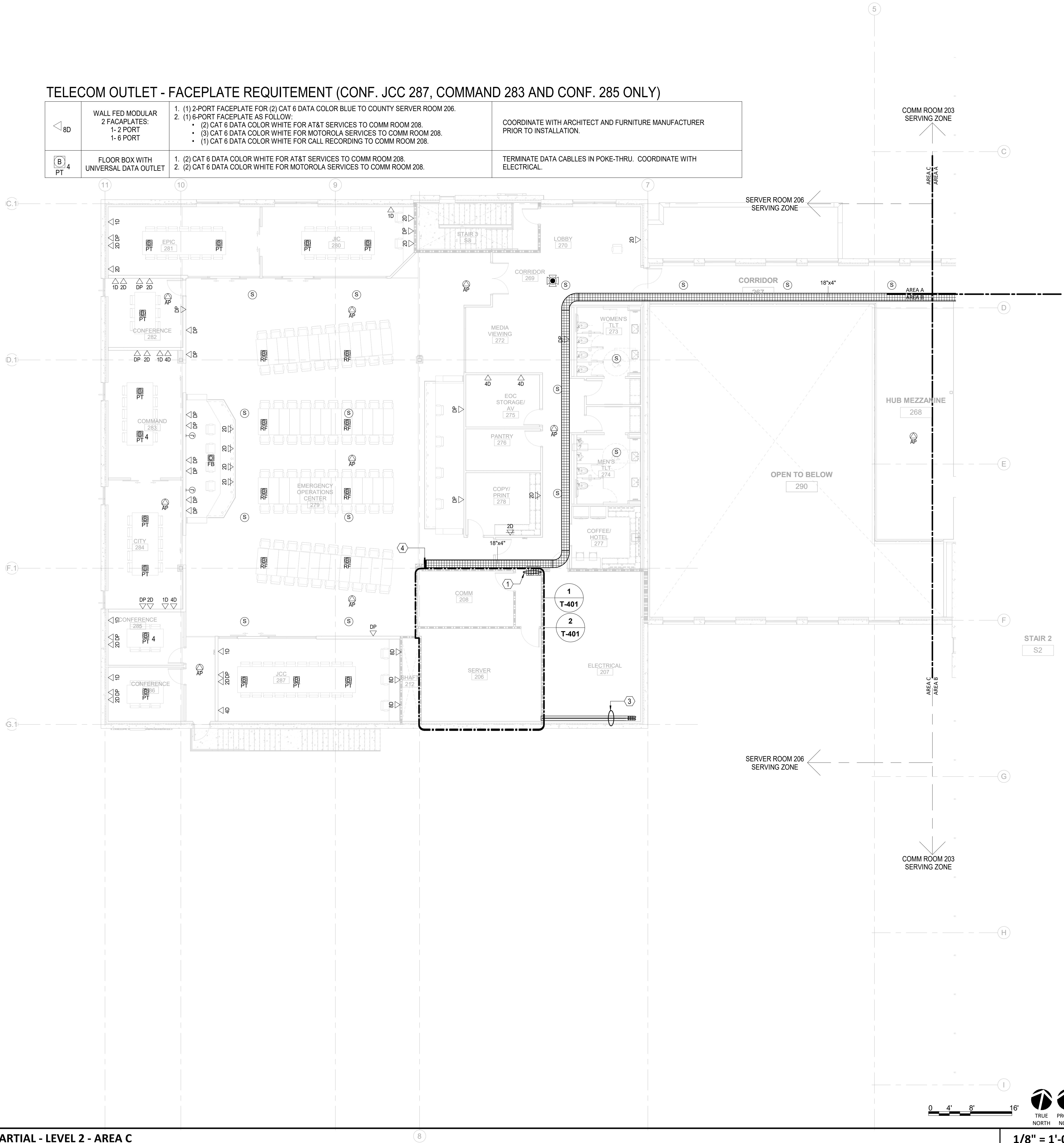
GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING CABINETS IN SERVER ROOM 206.
2. CONTRACTOR MUST COORDINATE AND VERIFY AV OUTLET LOCATIONS WITH AV DRAWINGS AND TERMINATE ALL AV CABLING ON THIS SHEET IN AV CABINET EOC STORAGE/AV ROOM 275.
3. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.
4. AV TOUCH PANEL NEEDS 1 DROP @ 48" AFF. DROP SHOULD BE TERMINATED IN A MALE RJ45 AND INSTALLED WITHIN THE AV BOX (T1 OR T2). COORDINATE WITH AV AND ARCHITECTURAL DRAWINGS.

### 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. FOR REFERENCE ONLY. FURNISHED AND INSTALLED BY TOWER PROVIDER.
- ④ IN-WALL VERTICAL RUNS DOWN TO RAISE FLOOR FOR HORIZONTAL DISTRIBUTION. CONTRACTOR MUST COORDINATE WITH VENDOR AND ARCHITECT.

**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



TRUE NORTH PROJECT NORTH

**1/8" = 1'-0"**

1	TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C
T-102C	

**1/8" = 1'-0"**

THE LINE SHOWN ABOVE IS  
A BACKSIGHT OR FORESIGHT OF  
THE SURFACE OF THE GROUND

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1/7/2021 3:01:48 PM  
1  
T-103A

TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A

1

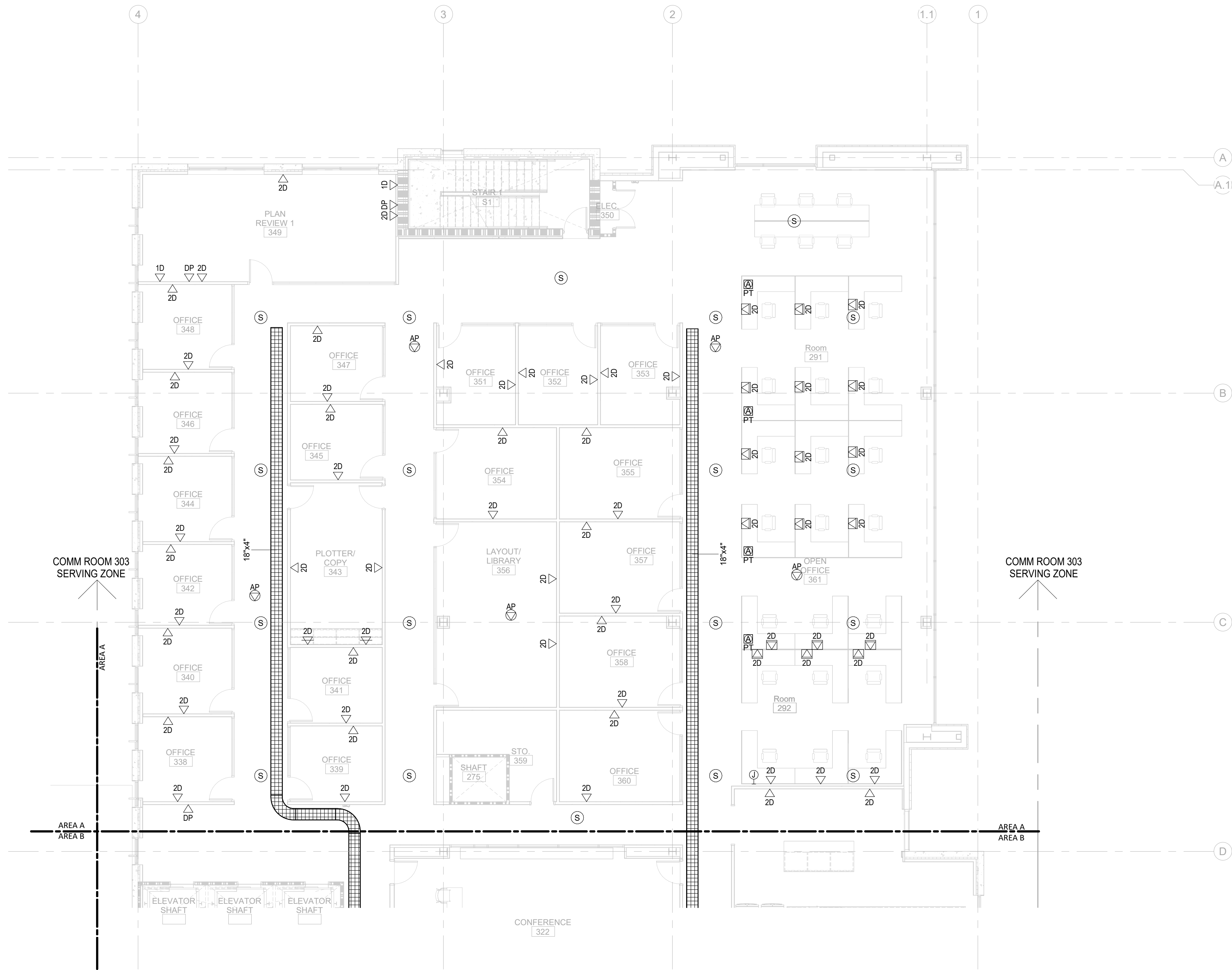
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3

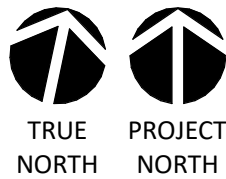
4

5

6



0 4' 8' 16'



1/8" = 1'-0"

**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



CAPE FEAR FD STONEWATER



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

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CONSTRUCTION

NHC Government Center 7702-190810

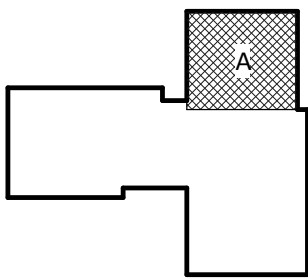
# NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



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

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

**T-103A**

GMP SET

THE LINE SHOWN ABOVE IS  
A BACKLASH OF THE RAILROAD, AND  
THE RAILROAD IS NOT TO BE  
CONSIDERED A PART OF THE  
DRAWING.

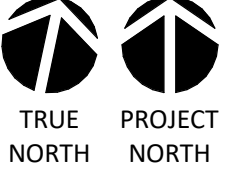
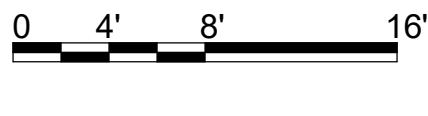
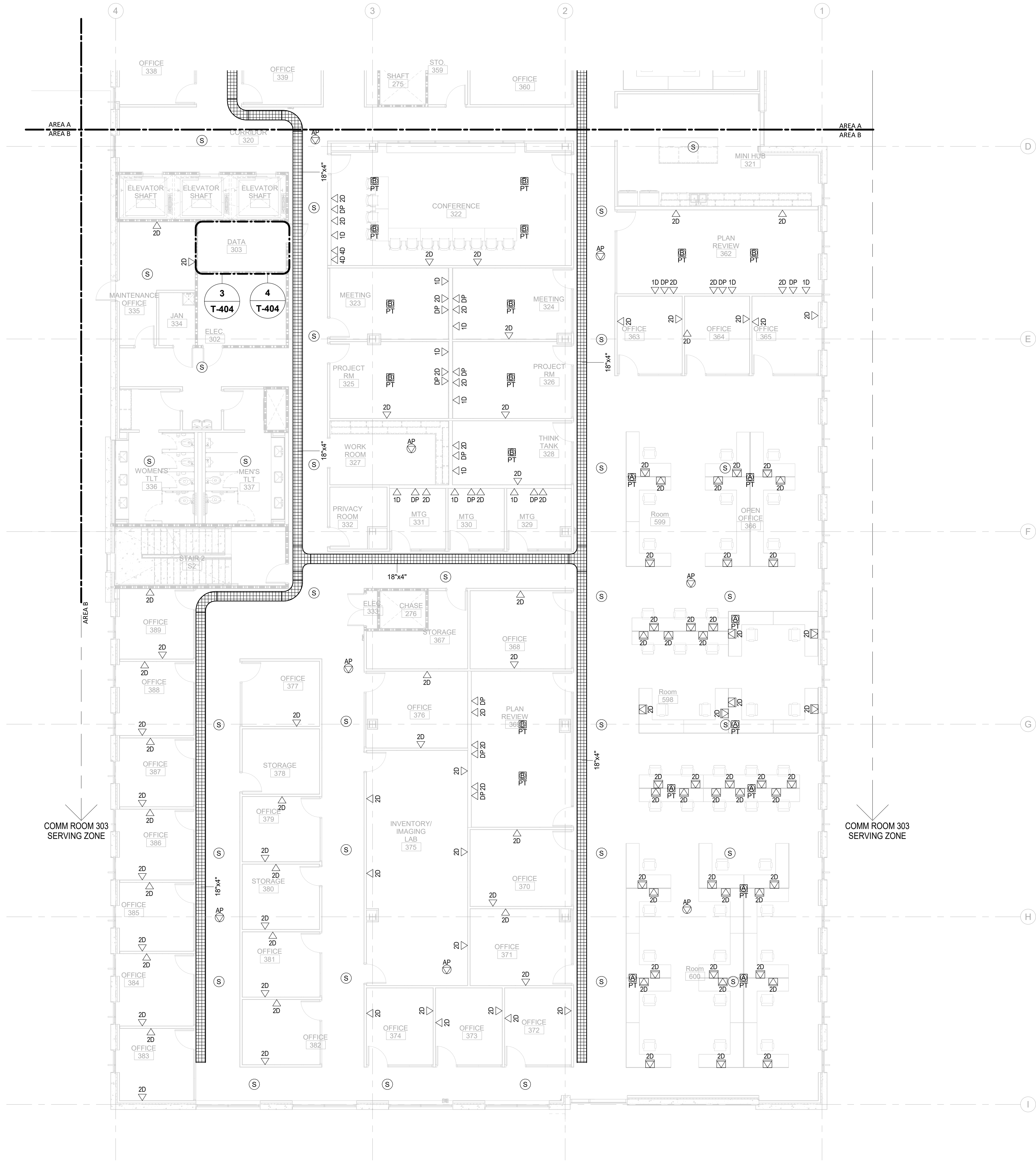
E

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GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN SERVER ROOM 303.
2. CONTRACTOR MUST COORDINATE AND VERIFY AV OUTLET LOCATIONS WITH AV DRAWINGS AND TERMINATE ALL AV CABLING ON THIS SHEET IN AV CABINET ROOM 151 VIA COMM ROOM 303 VERTICAL PATHWAY.
3. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.
4. AV TOUCH PANEL NEEDS 1 DROP @ 48" AFF. DROP SHOULD BE TERMINATED IN A MALE RJ45 AND INSTALLED WITHIN THE AV BOX (T1 OR T2). COORDINATE WITH AV AND ARCHITECTURAL DRAWINGS.



CAPE FEAR FD STONEWATER



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WILMINGTON, NORTH CAROLINA 28401  
TEL. 910.790.3111 FAX. 910.790.9901  
WWW.LS3P.COM

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CONSTRUCTION

NHC Government Center 7702-190810

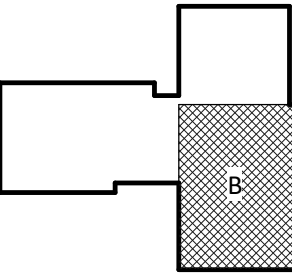
NEW HANOVER COUNTY  
GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
TELECOM FLOOR  
PLAN - LEVEL 3 - AREA  
B

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

T-103B

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 TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B

1/8" = 1'-0"



THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING SIZE  
THIS DRAWING IS FOR THE

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1  
T-104A  
TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A

1

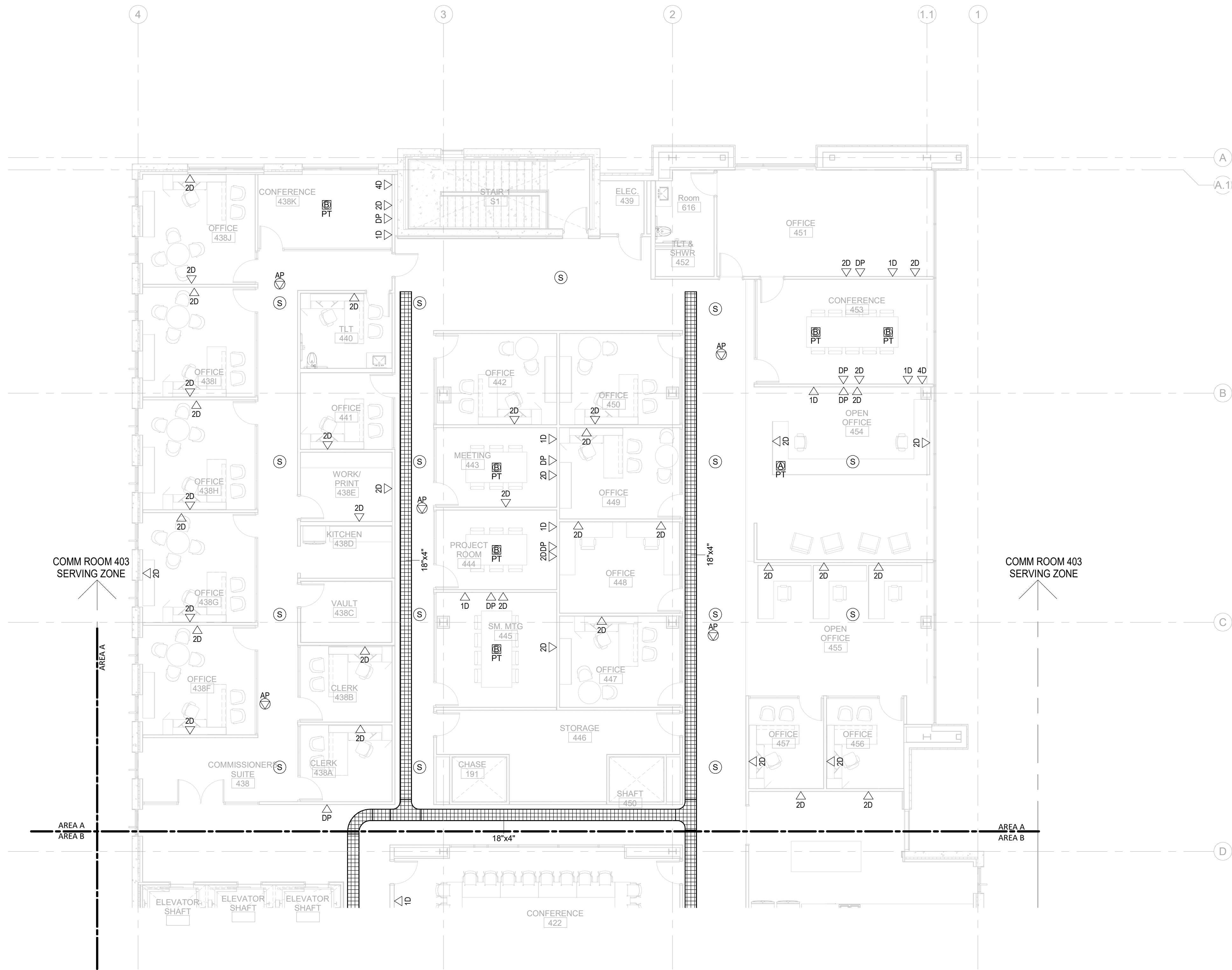
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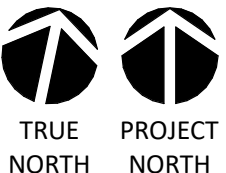
4

5

6



0 4' 8' 16'



1/8" = 1'-0"

GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATE IN HORIZONTAL CABLING RACK IN SERVER ROOM 403.
2. CONTRACTOR MUST COORDINATE AND VERIFY AV OUTLET LOCATIONS WITH AV DRAWINGS AND TERMINATE ALL AV CABLING ON THIS SHEET IN AV CABINET ROOM 151 VIA COMM ROOM 403 VERTICAL PATHWAY. COORDINATE WITH AV CONTRACTOR IF PATCHING IS REQUIRED DUE TO DISTANCE LIMITATION.
3. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.
4. AV TOUCH PANEL NEEDS 1 DROP @ 48" AFF. DROP SHOULD BE TERMINATED IN A MALE RJ45 AND INSTALLED WITHIN THE AV BOX (T1 OR T2). COORDINATE WITH AV AND ARCHITECTURAL DRAWINGS.



CAPE FEAR FD STONEWATER

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

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CONSTRUCTION

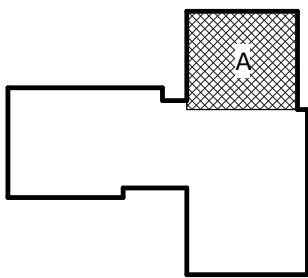
NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
TELECOM FLOOR  
PLAN - LEVEL 4 - AREA A

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

T-104A

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

THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING SIZE  
THIS DRAWING IS FOR THE

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T-104B

TELECOM TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B

1

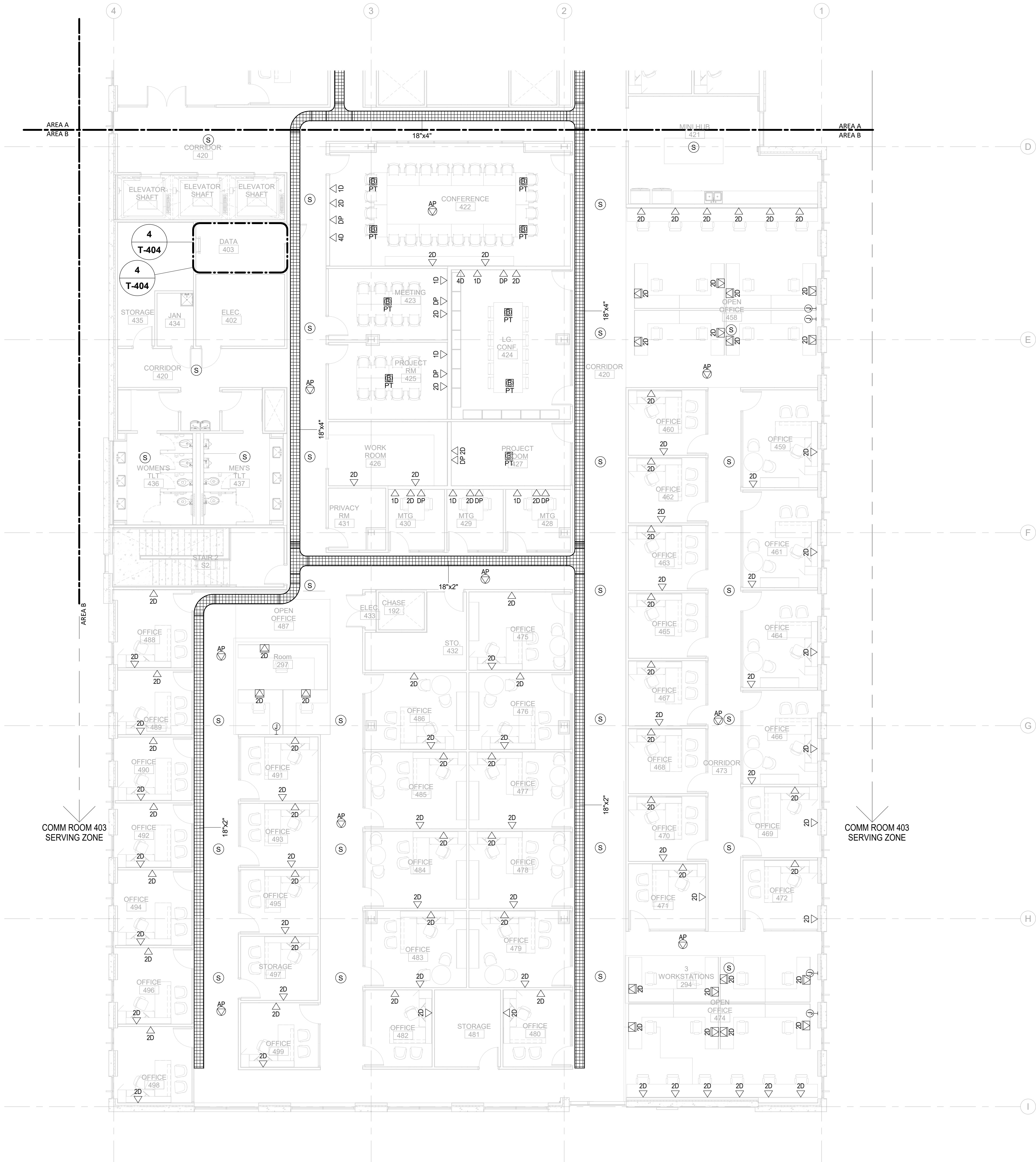
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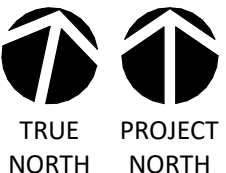
4

5

6



0' 4' 8' 16'



1/8" = 1'-0"

GENERAL NOTES:

1. ALL HORIZONTAL CABLING ON THIS SHEET SHALL TERMINATED IN HORIZONTAL CABLING RACK IN SERVER ROOM 403.
2. CONTRACTOR MUST COORDINATE AND VERIFY AV OUTLET LOCATIONS WITH AV DRAWINGS AND TERMINATE ALL AV CABLING ON THIS SHEET IN AV CABINET ROOM 151 VIA COMM ROOM 403 VERTICAL PATHWAY. COORDINATE WITH AV CONTRACTOR IF PATCHING IS REQUIRED DUE TO DISTANCE LIMITATION.
3. COORDINATE OUTLET IN FURNITURE WITH FURNITURE PROVIDER AND ELECTRICAL DRAWINGS. OUTLET MAY BE MOUNTED IN COMMUNICATIONS RACEWAY IF PROVIDED WITH FURNITURE.
4. AV TOUCH PANEL NEEDS 1 DROP @ 48" AFF. DROP SHOULD BE TERMINATED IN A MALE RJ45 AND INSTALLED WITHIN THE AV BOX (T1 OR T2). COORDINATE WITH AV AND ARCHITECTURAL DRAWINGS.



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

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CONSTRUCTION

NHC Government Center 7702-190810

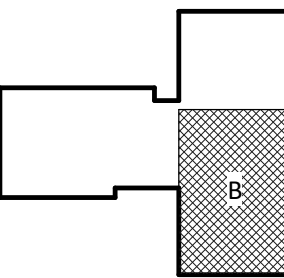
NEW HANOVER COUNTY  
GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:



SHEET NAME:  
TELECOM FLOOR  
PLAN - LEVEL 4 - AREA  
B

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

T-104B

GMP SET

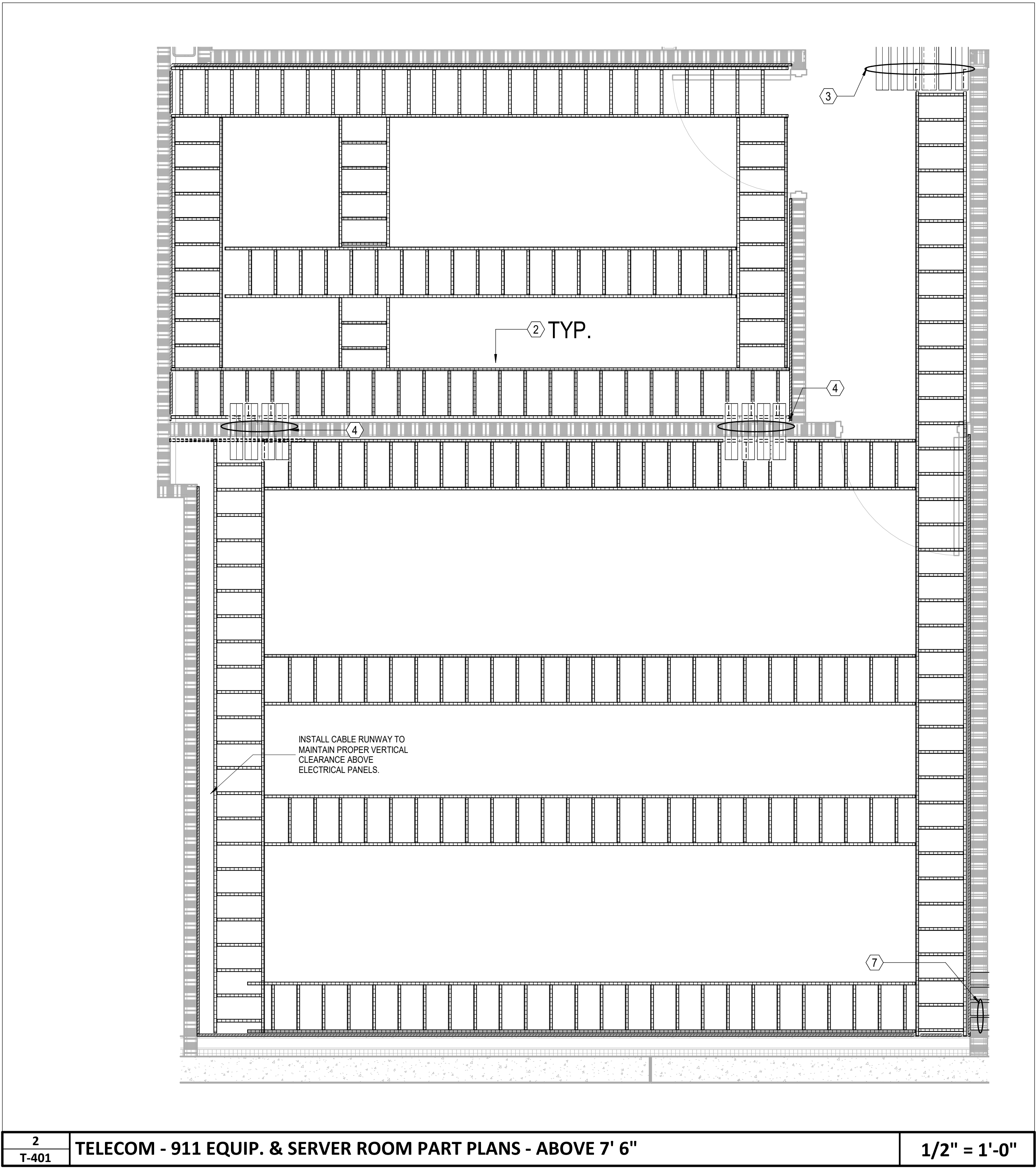
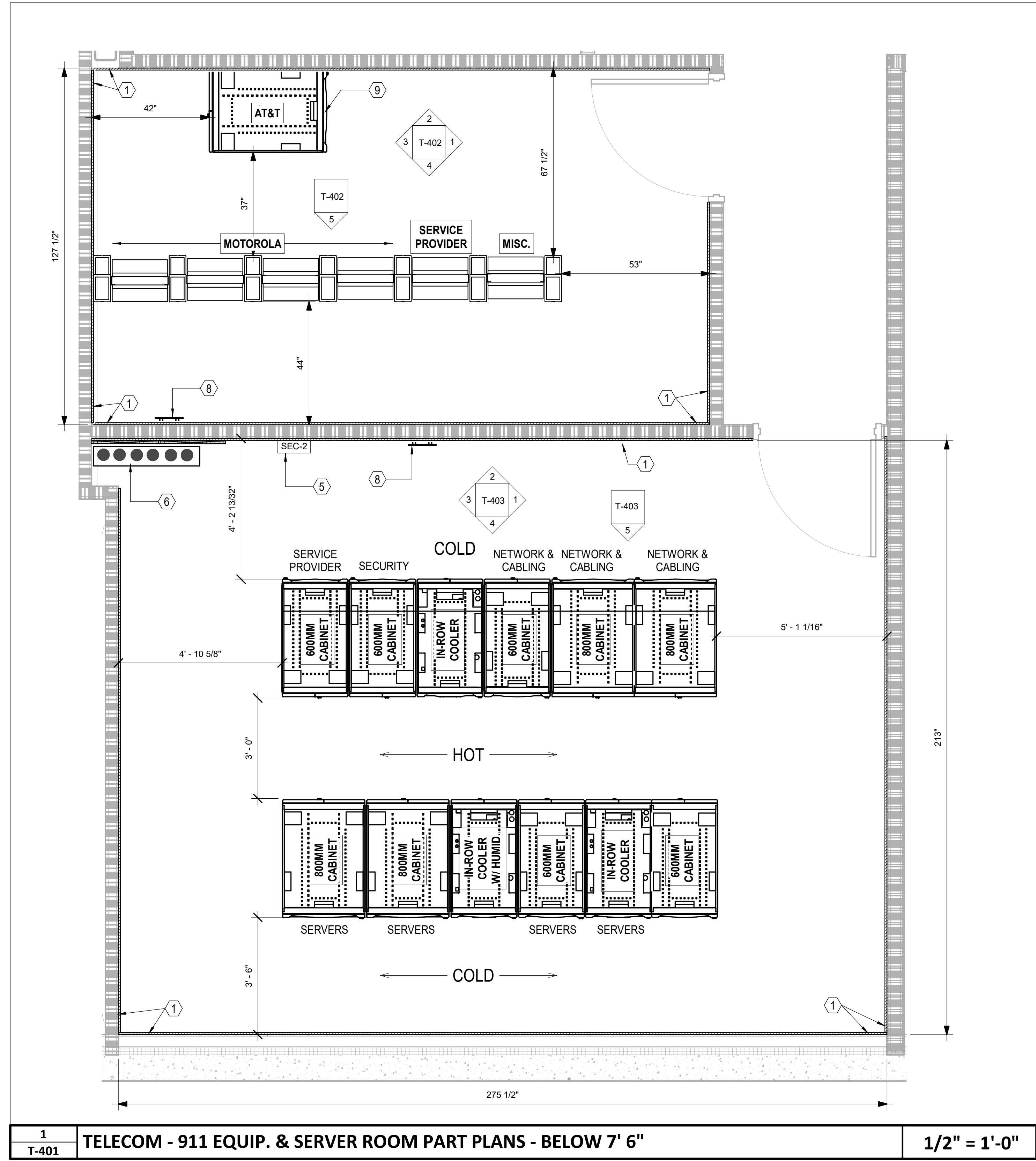
Newcomb & Boyd  
CONSULTANTS AND ENGINEERS  
Consulting Engineering Group  
5425 Page Rd  
Suite 215  
Durham, NC 27703  
T 919 783-7812  
Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

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 , FIRE RATED
- 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 (2) 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 FIBER CABLE.
- ⑧ -(2) 4" CONDUITS FOR FIBER REDUNDANCY TO TOWER AREA.  
SEE TELECOM SITE PLAN FOR DETAILS. FOR REFERENCE ONLY. FURNISHED AND INSTALLED BY TOWER PROVIDER.
- ⑨ TELECOMMUNICATION GROUNDING BAR
- ⑩ CABINET INSTALLED BY FURNISHED BY AT&T.



## 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

**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



THE LINE SHOWN INDICATES  
A BACKLASH OR BACKLASHING OF  
THE LINE TO THE RIGHT SIDE  
OF THE LINE.

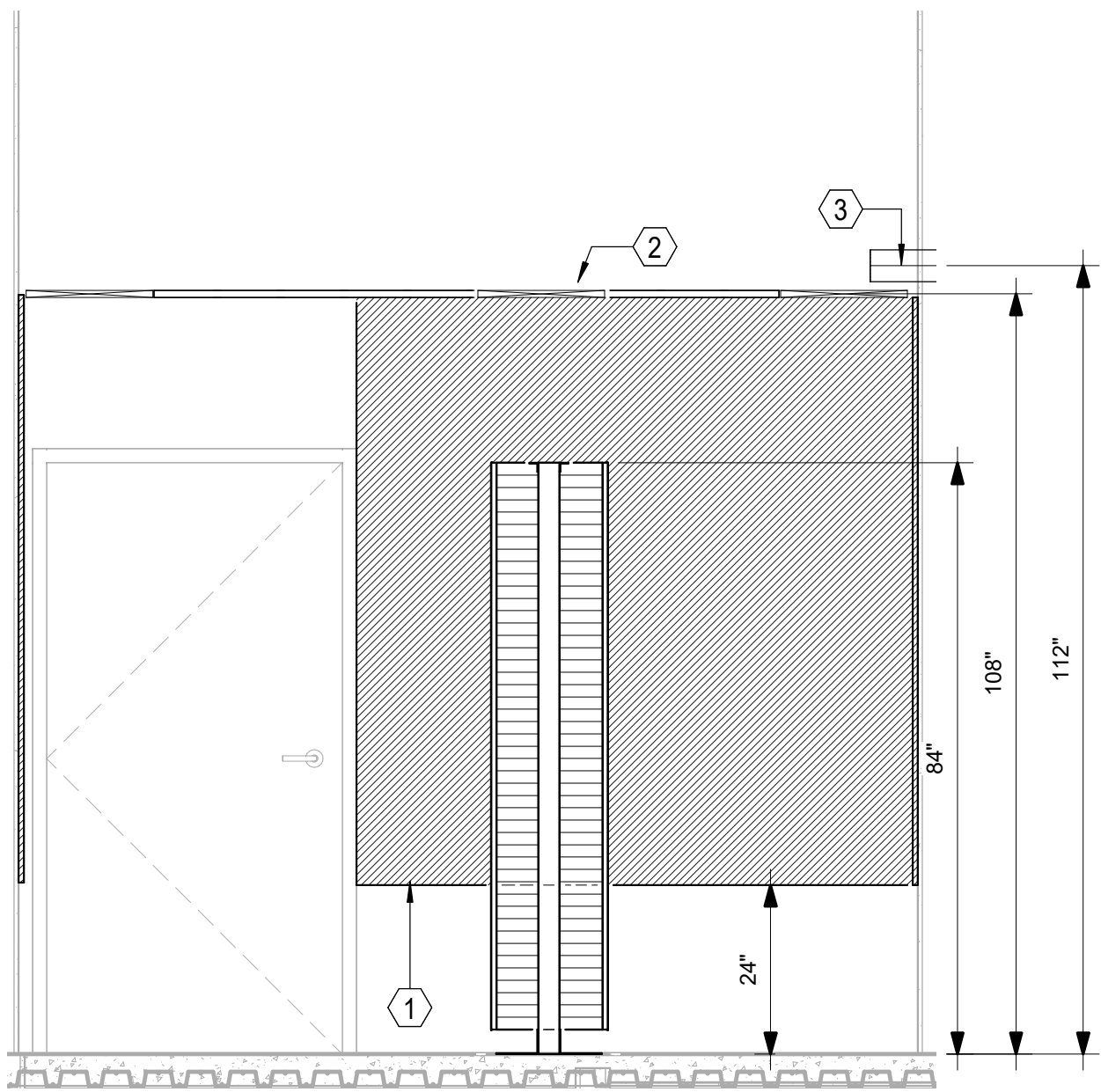
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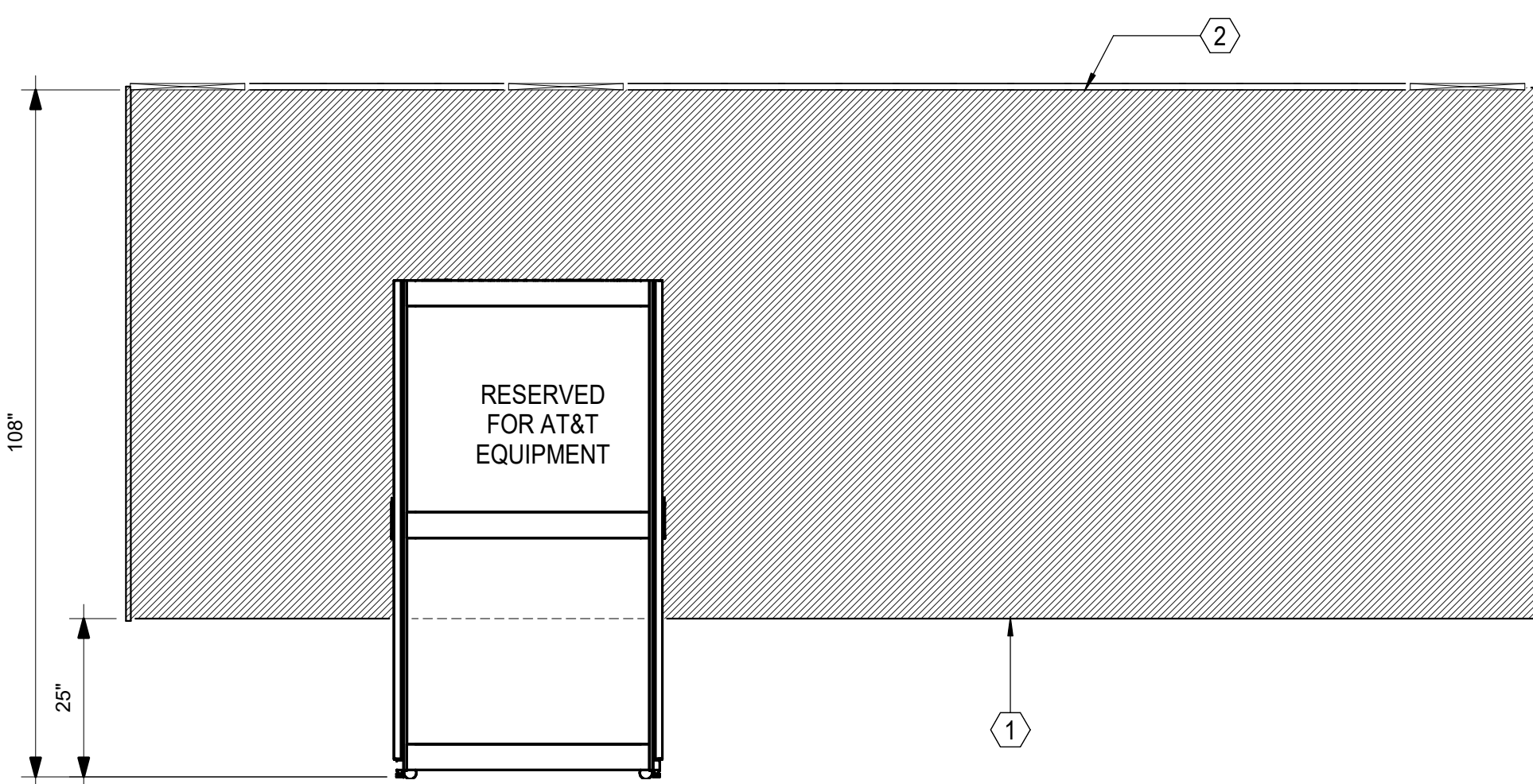
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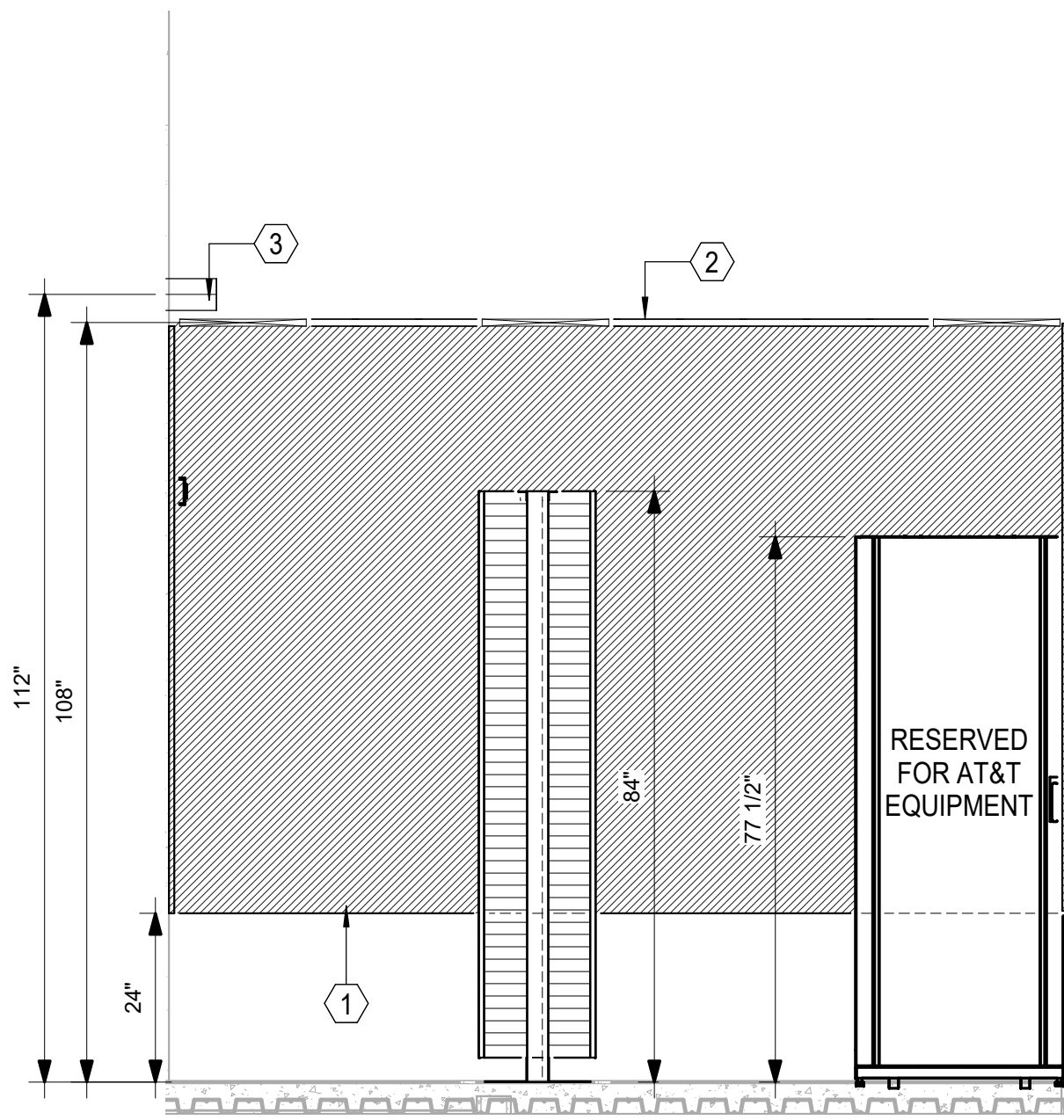
A



1  
T-402  
911 EQUIPMENT ROOM - EAST ELEVATION  
1/2" = 1'-0"

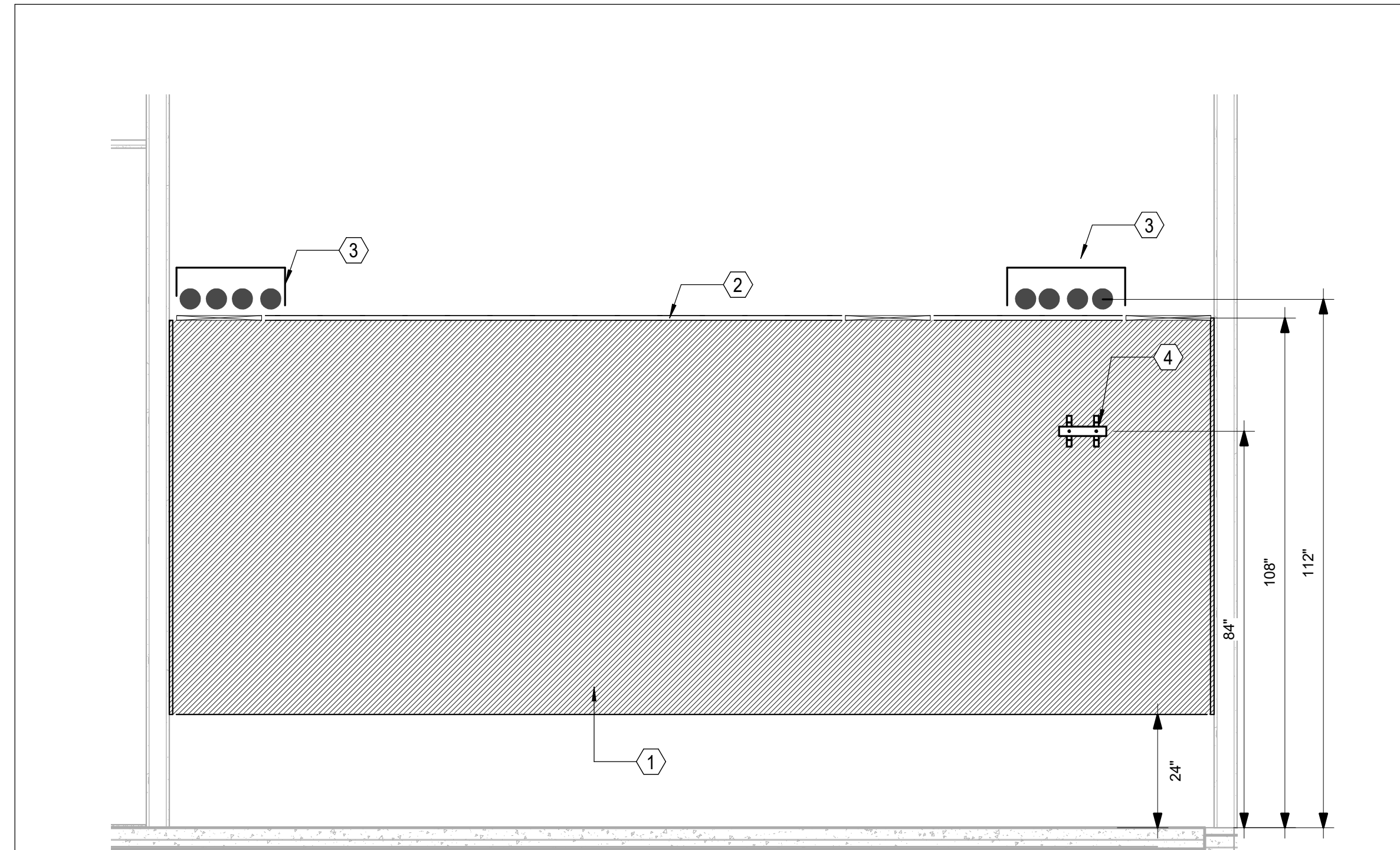


2  
T-402  
911 EQUIPMENT ROOM - NORTH ELEVATION  
1/2" = 1'-0"

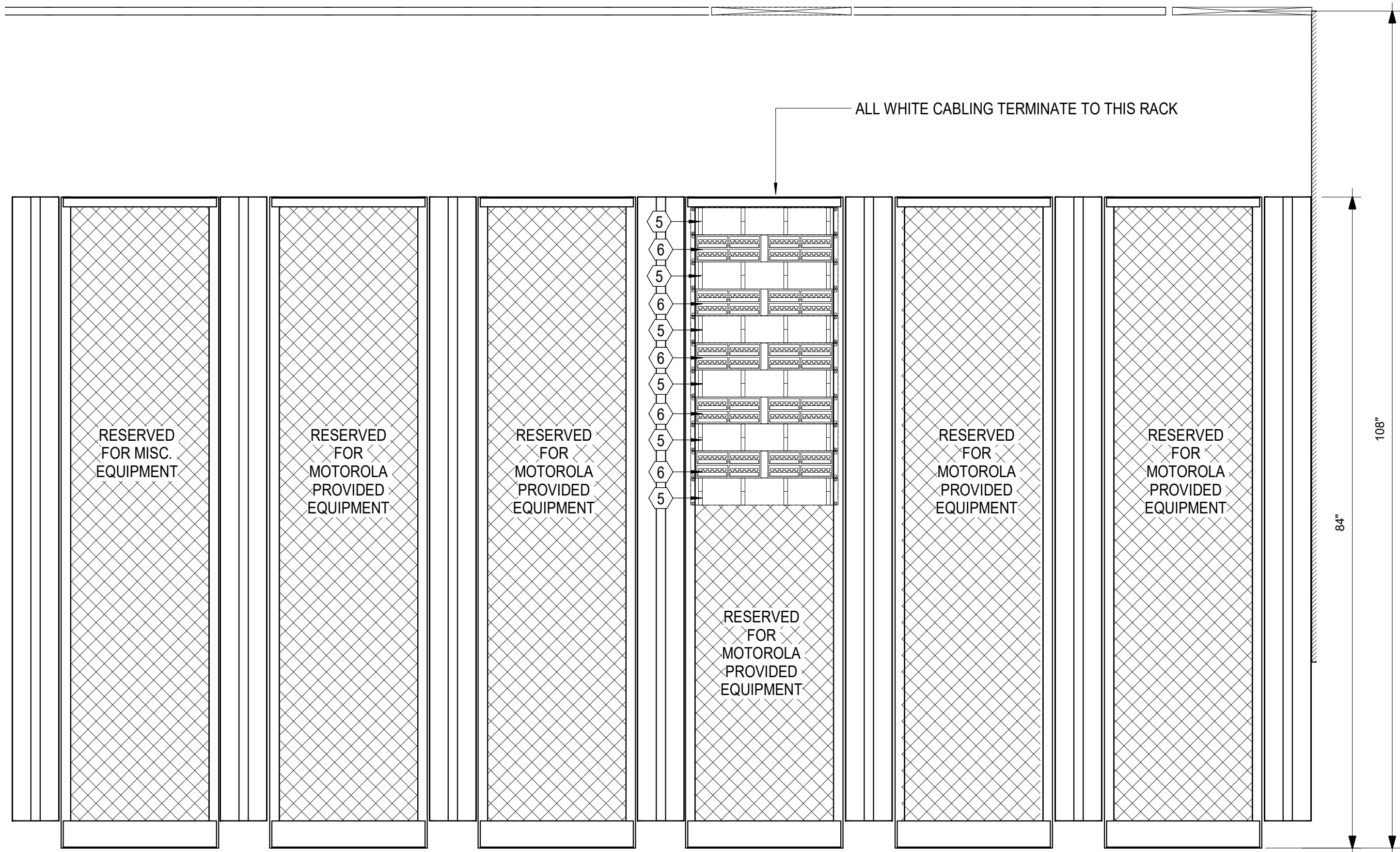


3  
T-402  
911 EQUIPMENT ROOM - WEST ELEVATION  
1/2" = 1'-0"

- KEYNOTES (THIS SHEET ONLY)**
- ① 0.75" PLYWOOD BACKBOARD, FIRE RATED
  - ② 18"W CABLE RUNWAY
  - ③ (4) 4" FIRESTOPPED SLEEVES FOR HORIZONTAL DISTRIBUTION
  - ④ TELECOMMUNICATION GROUNDING BAR
  - ⑤ 2RU WIRE MANAGER
  - ⑥ 48 PORT PATCH PANEL FOR MOTOROLA CABLES 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"

**Newcomb & Boyd**  
CONSULTANTS AND ENGINEERS  
Consulting Engineering Group  
5425 Page Rd  
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Durham, NC 27703  
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  
WILMINGTON, NORTH CAROLINA 28401  
TEL. 910.790.3111 FAX. 910.790.9901  
WWW.LS3P.COM

NOT FOR  
CONSTRUCTION

NHC Government Center 7702-190810

**NEW HANOVER COUNTY  
GOVERNMENT CENTER**  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

**SHEET NAME:**  
TELECOM - 911  
EQUIPMENT ROOM  
ELEVATIONS

**DATE:** 2020.12.16  
**CURRENT:** 2021.01.08

ADDENDUM #2

**SHEET:**

**T-402**

GMP SET

[illegible]

SHEET NAME:  
TELECOM - SERVER  
ROOM ELEVATIONS

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

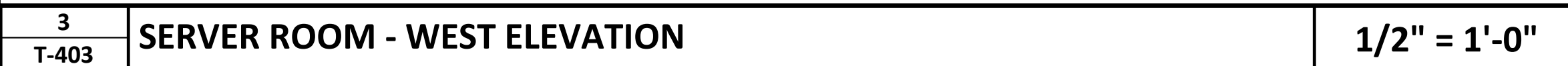
**MEET:**

# Г-403

## COMP SET

1. AT ALL VERTICAL SLEEVE LOCATIONS, FURNISH AND INSTALL 24" W CABLE RUNWAY MOUNTED VERTICALLY TO ALLOW FOR PROPER SUPPORT OF CABLES.

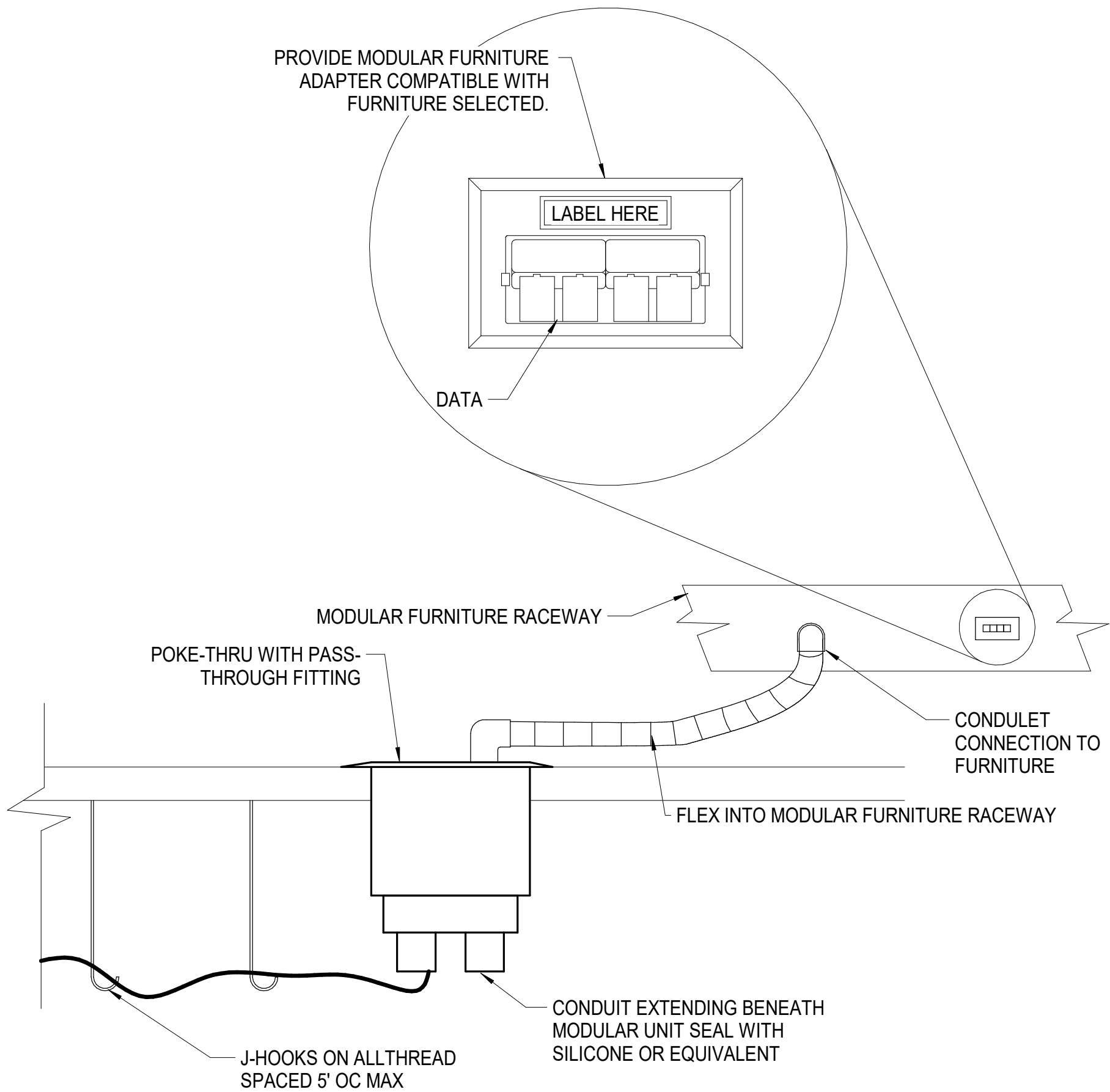
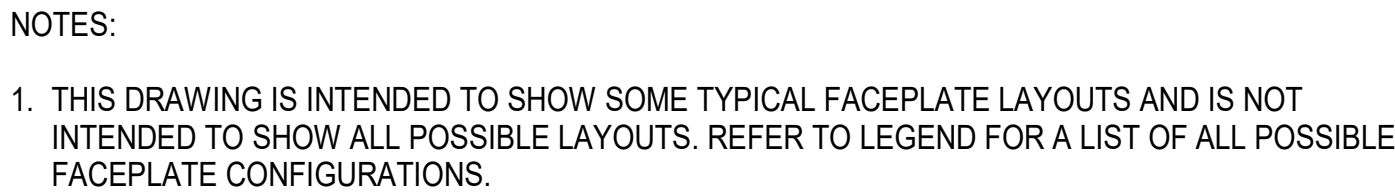
- ① 0.75" PLYWOOD BACKBOARD , FIRE RATED, FIRE RATED
- ② 18"W CABLE RUNWAY
- ③ (4) 4" FIRESTOPPED SLEEVES
- ④ SECURITY PANEL BY OWNER'S SECURITY INTEGRATOR
- ⑤ (6) 4" CONDUITS FROM SERVER ROOM TO FLOOR BELOW FOR LEVEL 1 HORIZONTAL DISTRIBUTION
- ⑥ UNDERGROUND CONDUITS PATHWAY FROM FIRST FLOOR.  
- (6) 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
- ⑩ TELECOMMUNICATION GROUNDING BAR
- ⑪ 48 PORT PATCH PANEL FOR CAT6A WIRELESS ACCESS POINT CABLES HORIZONTAL DISTRIBUTION



**Newcomb & Boyd**  
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Suite 215  
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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

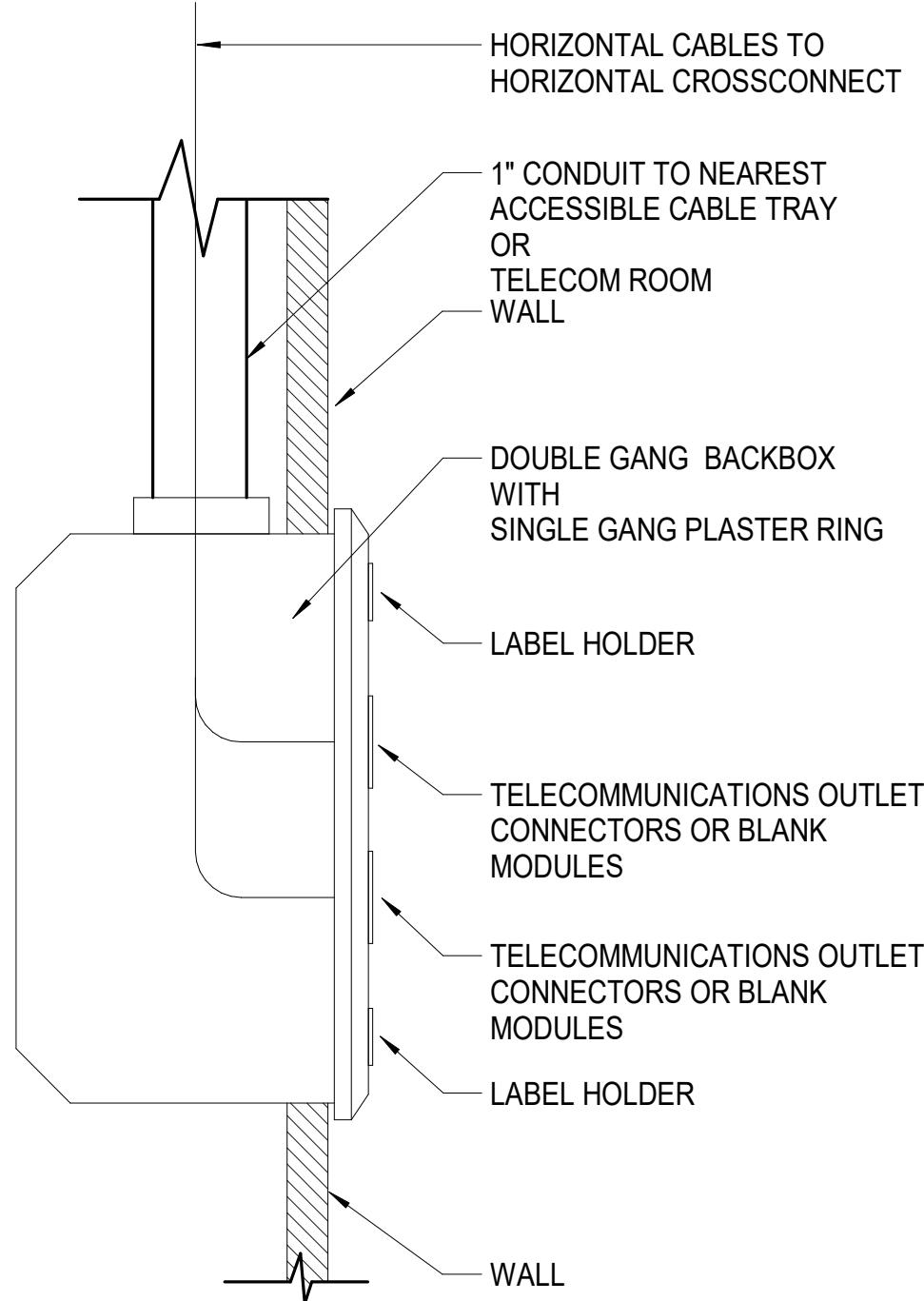
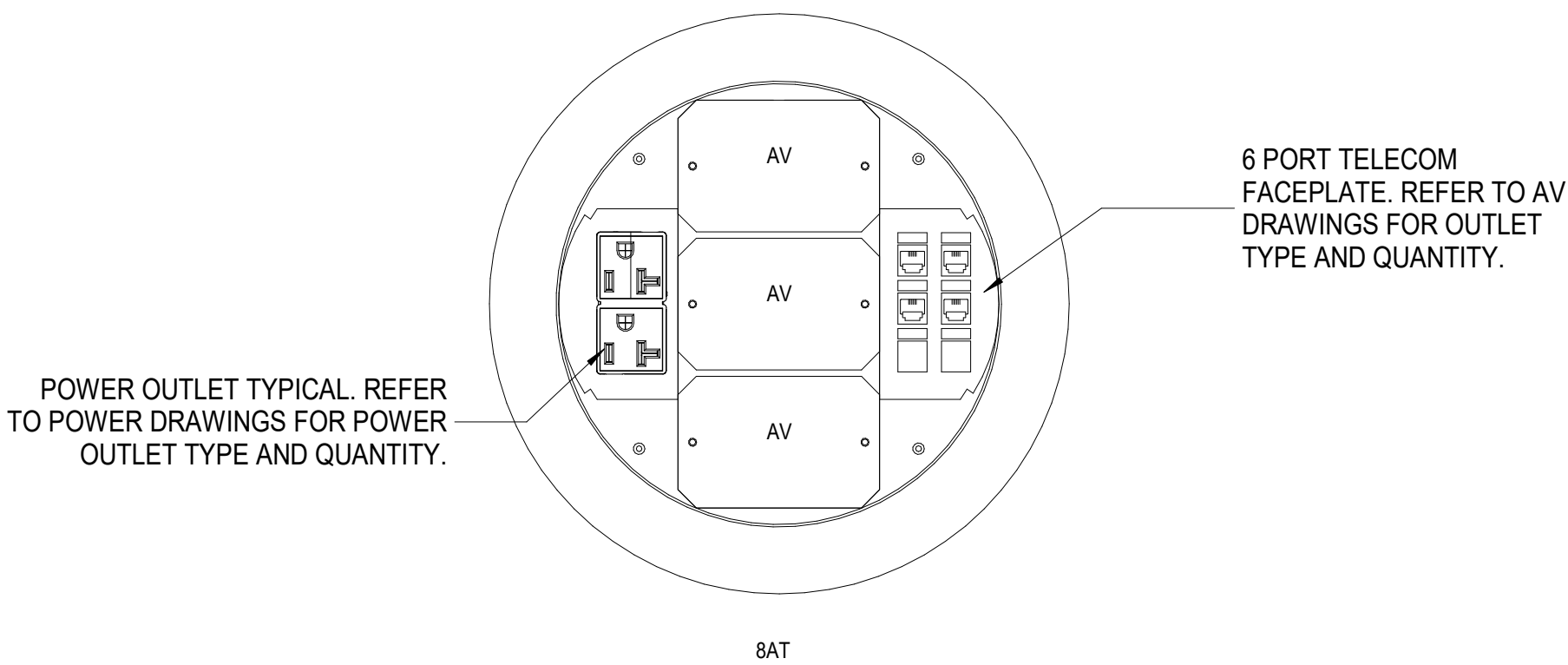
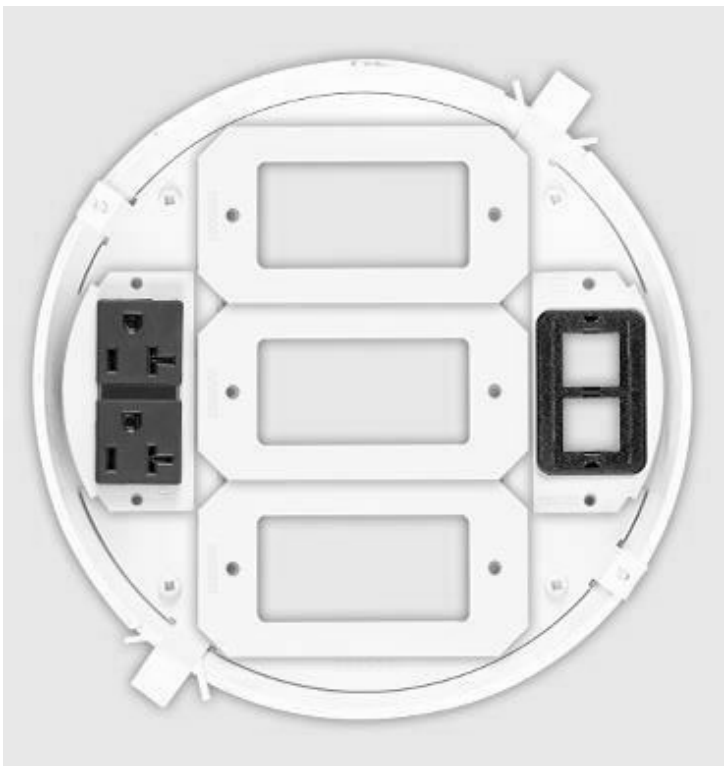
**Newcomb & Boyce**  
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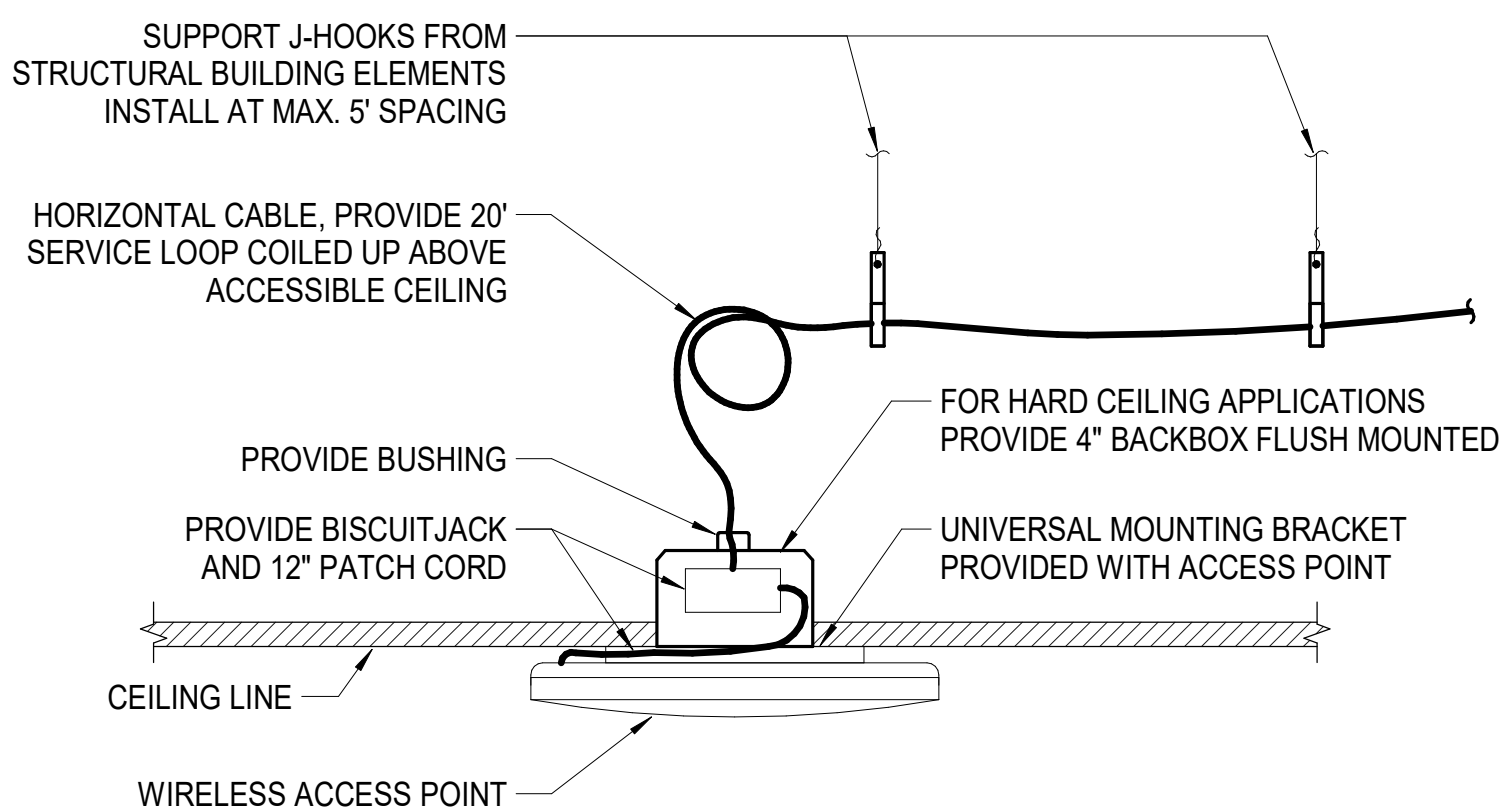
GENERAL NOTES (THIS DETAIL ONLY):

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 CABLEING 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.



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.



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SHEET NAME:  
TELECOM RISER  
DIAGRAM

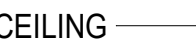
MEET:

## COMP SET

**PROOF**



## EOC ROOF



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Suite 215  
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N&B PROJECT: 19N342  
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**1**

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THE LINE SHOWN ABOVE IS  
BASED ON THE FOLLOWING SIZE  
THE LINE SHOWN ABOVE IS

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T-602

TELECOM GROUNDING RISER DIAGRAM (DIAGRAMMATIC)

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## GOVERNMENT CENTER

ROOF

CEILING

TELECOM EQUIPMENT BONDING  
CONDUCTOR  
-TYPICAL

CABLE RUNWAY

WALL MOUNTED  
EQUIPMENT

FIBER

COPPER

TELECOM  
GROUNDING BUS BAR

C-TAP CONNECTOR

COMM  
ROOM 403

LEVEL 4

CEILING

TELECOM EQUIPMENT BONDING  
CONDUCTOR  
-TYPICAL

CABLE RUNWAY

WALL MOUNTED  
EQUIPMENT

FIBER

COPPER

TELECOM  
GROUNDING BUS BAR

C-TAP CONNECTOR

COMM  
ROOM 303

LEVEL 3

TELECOM EQUIPMENT BONDING  
CONDUCTOR  
-TYPICAL

CABLE RUNWAY

WALL MOUNTED  
EQUIPMENT

FIBER

COPPER

TELECOM  
GROUNDING BUS BAR

C-TAP CONNECTOR

COMM  
ROOM 203

LEVEL 2

FIRESTOPPED SLEEVES FOR  
HORIZONTAL DISTRIBUTION  
-TYPICAL

TELECOM EQUIPMENT BONDING  
CONDUCTOR  
-TYPICAL

CABLE RUNWAY

WALL MOUNTED  
EQUIPMENT

FIBER

COPPER

TELECOM BONDING BACKBONE

C-TAP CONNECTOR

COMM  
ROOM 103

ELECTRICAL ROOM 104

LEVEL 1

BUILDING STEEL

BUILDING STEEL

BUILDING STEEL

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GENERAL NOTES:

1. CONNECT TELECOM BUS BAR TO ELECTRICAL PRIMARY BONDING BUSBAR WITH IRREVERSIBLE BOND. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE WITH ELECTRICAL DRAWINGS.
2. SEE T-502 DETAIL 4 FOR MORE DETAILS.

## EOC 911 CENTER

EOC ROOF

FIRESTOPPED SLEEVES FOR  
HORIZONTAL DISTRIBUTION

SERVER ROOM 206

FIRESTOPPED SLEEVES FOR  
HORIZONTAL DISTRIBUTION  
-TYPICAL

CEILING

CABLE RUNWAY

MAIN TELECOM GROUNDING BUS BAR

TELECOM EQUIPMENT BONDING  
CONDUCTOR  
-TYPICAL

WALL MOUNTED  
EQUIPMENT

FIBER

COPPER

CABLE RUNWAY

FIBER

COPPER

DEMARC  
COMM ROOM 208

WALL MOUNTED  
EQUIPMENT

TELEPHONE  
DEMARCATON

TELECOM GROUNDING BUS BAR

C-TAP CONNECTOR

ELECTRICAL  
ROOM 207

LEVEL 2

(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

CEILING

CABLE RUNWAY

CORRIDOR 178

TELECOM BONDING BACKBONE

MAIN ELECTRICAL GROUNDING BUS BAR

ELECTRICAL ENTRANCE FACILITY

HUB 153

BONDING CONDUCTOR FOR TELECOM

ELECTRICAL  
ROOM 110

HVAC 109

LEVEL 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) 4" CONDUITS FOR FIBER REDUNDANCY FROM SERVER ROOM 206 TO  
TOWER AREA. FOR REFERENCE ONLY. TOWER CONDUITS FURNISHED  
AND INSTALLED BY TOWER PROVIDER.

GROUNDING ELECTRODE SYSTEM

GROUNDING ELECTRODE SYSTEM

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NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
TELECOM  
GROUNDING RISER  
DIAGRAM

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

**T-602**

GMP SET



[illegible]

**SHEET NAME:**  
**AV LEGEND AND**  
**NOTES**

DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

MEET: **AM 888**

# AV-000

## MP SET

## 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
	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.
	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.
	WALL BOX TYPE 1	4G	18" UON	2	1.25"	ROUTE ONE CONDUIT TO NEAREST CABLE TRAY. ROUTE SECOND CONDUIT TO TV# BOX ABOVE.
	WALL BOX TYPE 2	4G	18" UON	1	1.25"	ROUTE CONDUIT TO NEAREST CABLE TRAY.
	PTZ CAMERA BOX	2G	96" UON	1	1.0"	ROUTE CONDUIT TO NEAREST CABLE TRAY. CONFIRM BOX LOCATION WITH ARCHITECT PRIOR TO INSTALLING.
	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.
	WALL MOUNTED CONTROL PANEL	2G	48"	1	1.0"	ROUTE ONE CONDUIT TO NEAREST CABLE TRAY.
	SCHEDULING PANEL	2G	48"	1	1.0"	ROUTE CONDUIT TO NEAREST CABLE TRAY. SEE AV-403/3 FOR ADDITIONAL REQUIREMENTS. VERIFY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
	PROJECTOR SCREEN CONTROL PANEL	1G	48"	2	1.0"	ROUTE ONE CONDUIT TO PROJECTION SCREEN MOTOR IN SAME ROOM. ROUTE SECOND CONDUIT TO AV RACK ROOM SERVING ROOM WHERE PROJECTION SCREEN IS LOCATED. SEE PLANS.
	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.
	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.
	TV STUDIO JUNCTION BOX	18 X 18 X 6 NEMA 1	24"			
	TV STUDIO JUNCTION BOX	12 X 12 X 6 NEMA 1	24"			
	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.
	OCCUPANCY SENSOR		CEILING			COORDINATE FINAL LOCATION WITH ARCHITECTUAL DRAWINGS. ROUTE CONDUIT FROM ABOVE CEILING TO NEAREST CABLE TRAY.
	AV LECTERN					COORDINATE FINISH COLOR WITH ARCHITECT.
	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. AV RACK PROVIDED BY AV CONTRACTOR
	AV/TELECOM SHARED FLOORBOX	FSR-540P-4-B	FLOOR	SEE DETAIL	SEE DETAIL	# INDICATES CONDUIT ROUTING SCHEME. SEE AV-401/1 FOR CONDUIT ROUTING AND ADDITIONAL REQUIREMENTS.
	AV/TELECOM SHARED FLOORBOX	FSR-500P-4-B, w/ POUR PAN	FLOOR	SEE DETAIL	SEE DETAIL	# INDICATES CONDUIT ROUTING SCHEME. SEE AV-401/1 FOR CONDUIT ROUTING AND ADDITIONAL REQUIREMENTS.
	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.
	AV/TELECOM SHARED RAISED FLOOR BOX	RAISED FLOOR MFG	RAISED FLOOR			RAISED FLOOR BOX WITH WHIP ASSEMBLY PROVIDED BY THE RAISED FLOOR MANUFACTURER, INSTALLED BY EC.
	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. FINISH HEIGHT AND MOUNTING LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS.
5. FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF EQUIPMENT.
6. PROVIDE SEPARATE RACEWAY PATH FOR MICROPHONE LEVEL AUDIO SIGNALS.
7. ROUTING OF CONDUIT SHOWN FOR DESIGN INTENT ONLY. COORDINATE EXACT ROUTE BASED ON FIELD CONDITIONS.
8. RE-AMEND AND BUSBARS TO 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 CABLEING 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. THE VELDING GROOVE STRUCTURE FOR ALL CABLE MANAGER ARE PROTECTED.
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
AF	ABOVE FINISHED FLOOR
AF	ABOVE RAISED FLOOR
ARC	ABOVE FINISHED CEILING
BEFC	BELOW FINISHED CEILING
ARCH	ARCHITECT/ARCHITECTUAL
BEL	BELOW
C	CONDUIT
CCA	CEILING CONNECTOR ASSEMBLY
CLG	CEILING
COL	COLUMN
CONN	CONNECT/CONNECTION
CONT	CONTINUATION/CONTINUOUS
DN	DOWN
EC	EMPTY CONDUIT
F	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
OF	OWNER FURNISHED EQUIPMENT
OFICI	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

THIS PACKAGE IS AV INFRASTRUCTURE ONLY. AV EQUIPMENT, EXCEPT PROJECTION SCREENS AND SPECIALTY BOXES AS NOTED, ARE OWNER FURNISHED AND NOT IN CONTRACT

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N&B PROJECT: 19N342  
Firm License No. F-0312

THE LINE SHOWN ABOVE  
INDICATES THE LOCATION OF  
THE WALLS OF THE BUILDING

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AV-102C

AUDIO VISUAL TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C

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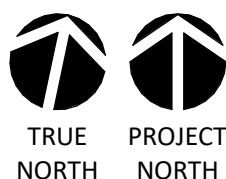
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0' 4' 8' 16'



1/8" = 1'-0"

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SHEET NAME:  
AUDIO VISUAL FLOOR  
PLAN - LEVEL 2 - AREA  
C

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:  
**AV-102C**

GMP SET

NEW HANOVER COUNTY • NORTH CAROLINA

ESTABLISHED 1789

CAPE FEAR FD STONEWATER

LS3P

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NOT FOR  
CONSTRUCTION

NHC Government Center 7702-190810

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

LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
D	2020.12.22	ADDENDUM #1
E	2021.01.08	ADDENDUM #2

KEY PLAN:

THE LINE SHOWN ABOVE IS  
A FACILITY FOR RECORDING OF  
THE PROJECT'S PROGRESS

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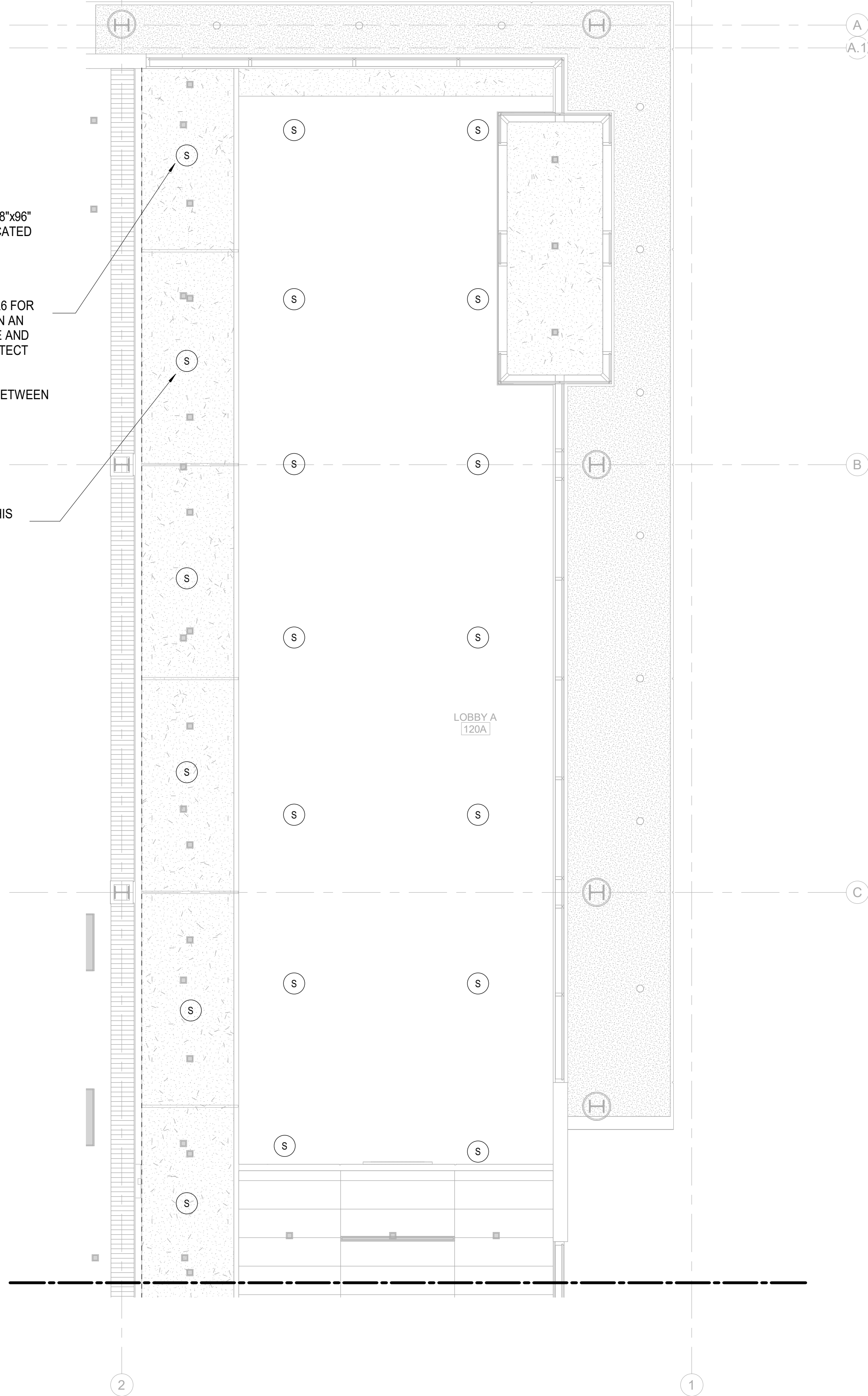
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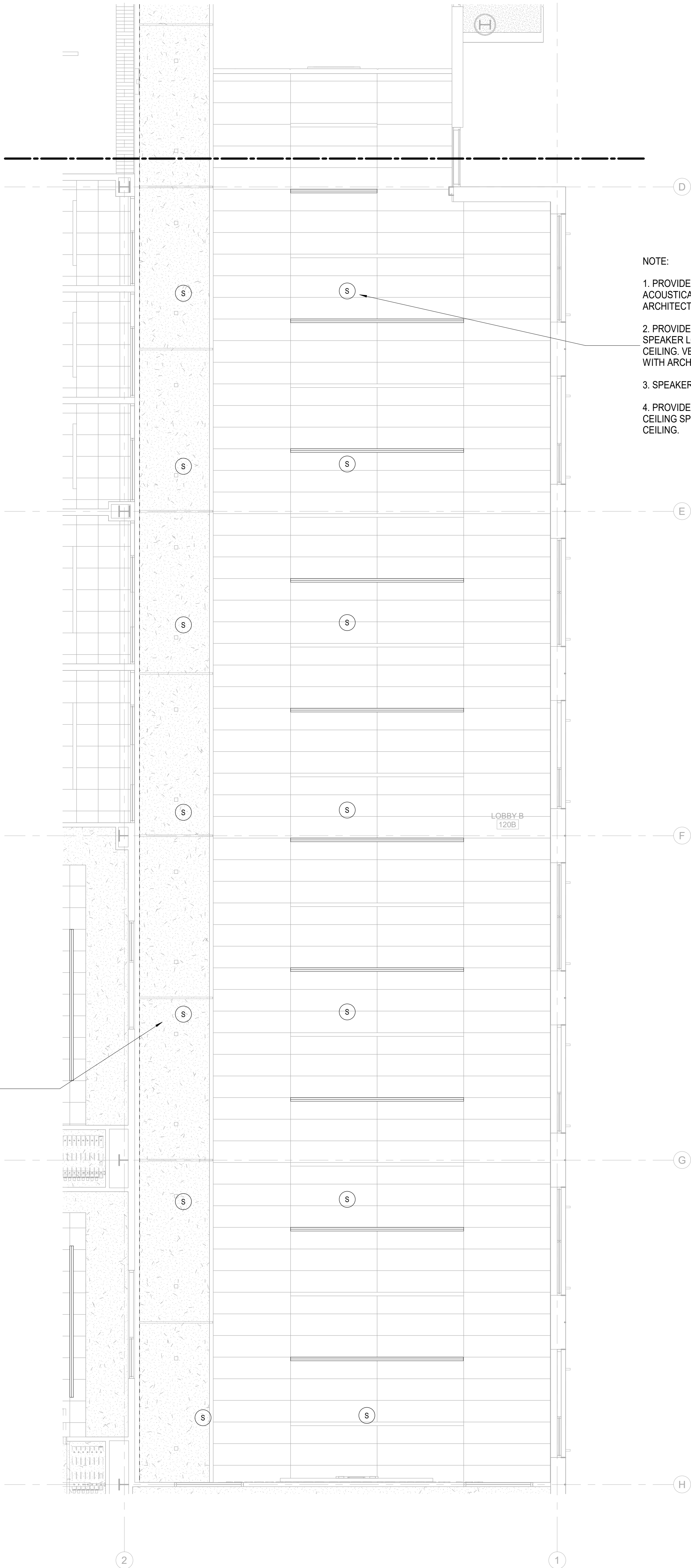
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- NOTE:
1. PROVIDE CUSTOM TILE GRID FOR 48"x96" CEILING TILE SIZE AND TYPE AS INDICATED ON ARCHITECTURAL DRAWINGS.
  2. SPEAKER IS N.I.C
  3. PROVIDE ROUGH-IN KIT QSC ADMR6 FOR ALL SPEAKER LOCATIONS LOCATED IN AN INACCESSIBLE CEILING. VERIFY MAKE AND MODEL OF ROUGH IN KIT WITH ARCHITECT PRIOR TO INSTALLATION.
  4. PROVIDE 1.0" CONDUIT PATHWAY BETWEEN CEILING SPEAKER LOCATIONS IN AN INACCESSIBLE CEILING.

PROVIDE 1.25" CONDUIT FROM THIS LOCATION TO THE AV ROOM 151.



PROVIDE 1.25" CONDUIT FROM THIS LOCATION TO AV ROOM 151.



- NOTE:
1. PROVIDE CUSTOM TILE GRID FOR 24"x96" ACOUSTICAL CEILING TILE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
  2. PROVIDE ROUGH-IN KIT QSC ADMR6 FOR ALL SPEAKER LOCATIONS LOCATED IN AN INACCESSIBLE CEILING. VERIFY MAKE AND MODEL OF ROUGH IN KIT WITH ARCHITECT PRIOR TO INSTALLATION.
  3. SPEAKER IS N.I.C
  4. PROVIDE 1.0" CONDUIT PATHWAY BETWEEN CEILING SPEAKER LOCATIONS IN AN INACCESSIBLE CEILING.



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C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
AUDIO VISUAL RCP  
LEVEL 1 - LOBBY

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

AV-122

GMP SET

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1/7/2021 2:31:26 PM

1  
AV-122  
AUDIO VISUAL LEVEL 1 LOBBY A 120A RCP DETAILS

3/16" = 1'-0"

2  
AV-122  
AUDIO VISUAL LEVEL 1 LOBBY B 120B RCP DETAILS

3/16" = 1'-0"

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THE LINE SHOWN ABOVE IS  
A SCALE OF 1/4" = 1'-0".  
THIS SCALE IS FOR THE  
ENTIRE DRAWING.

E

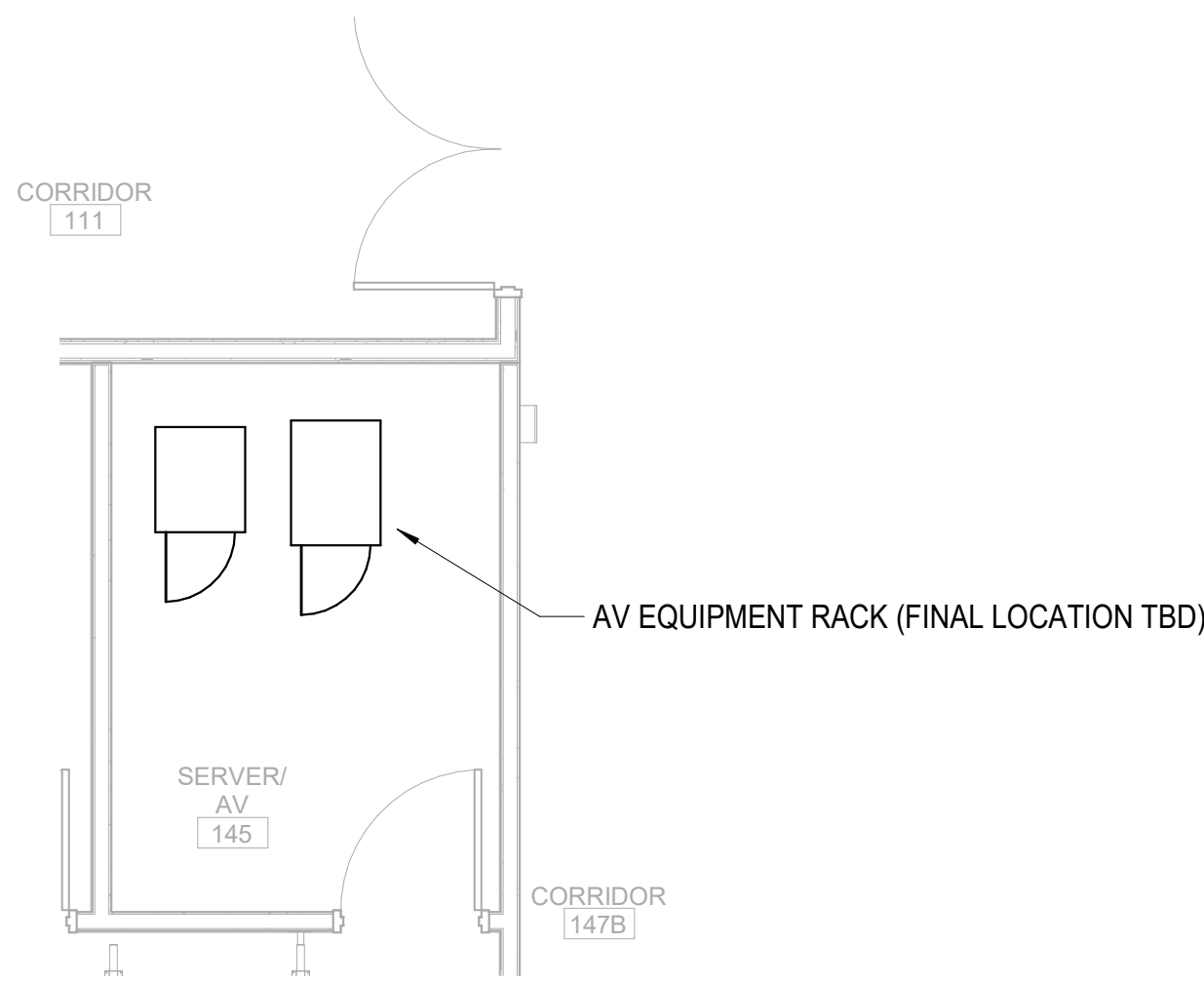
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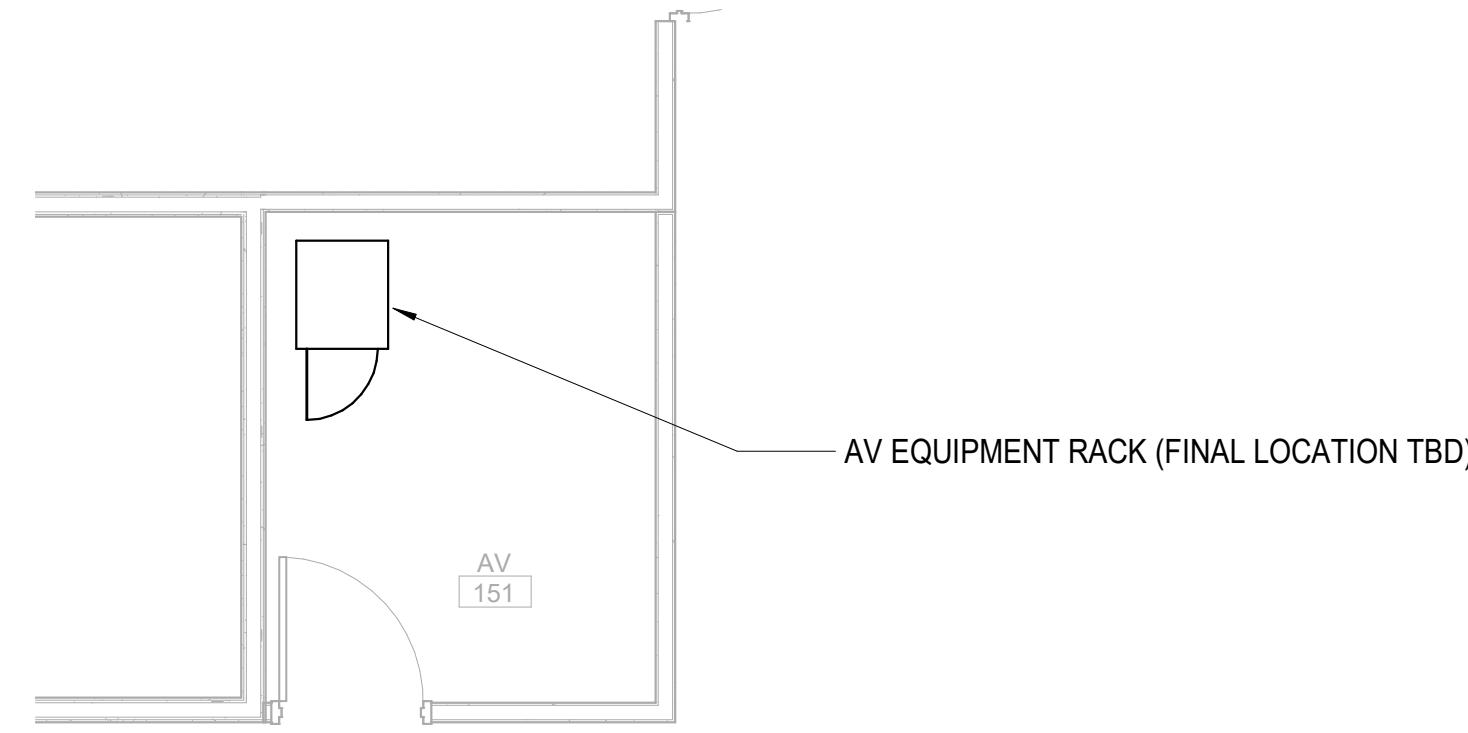
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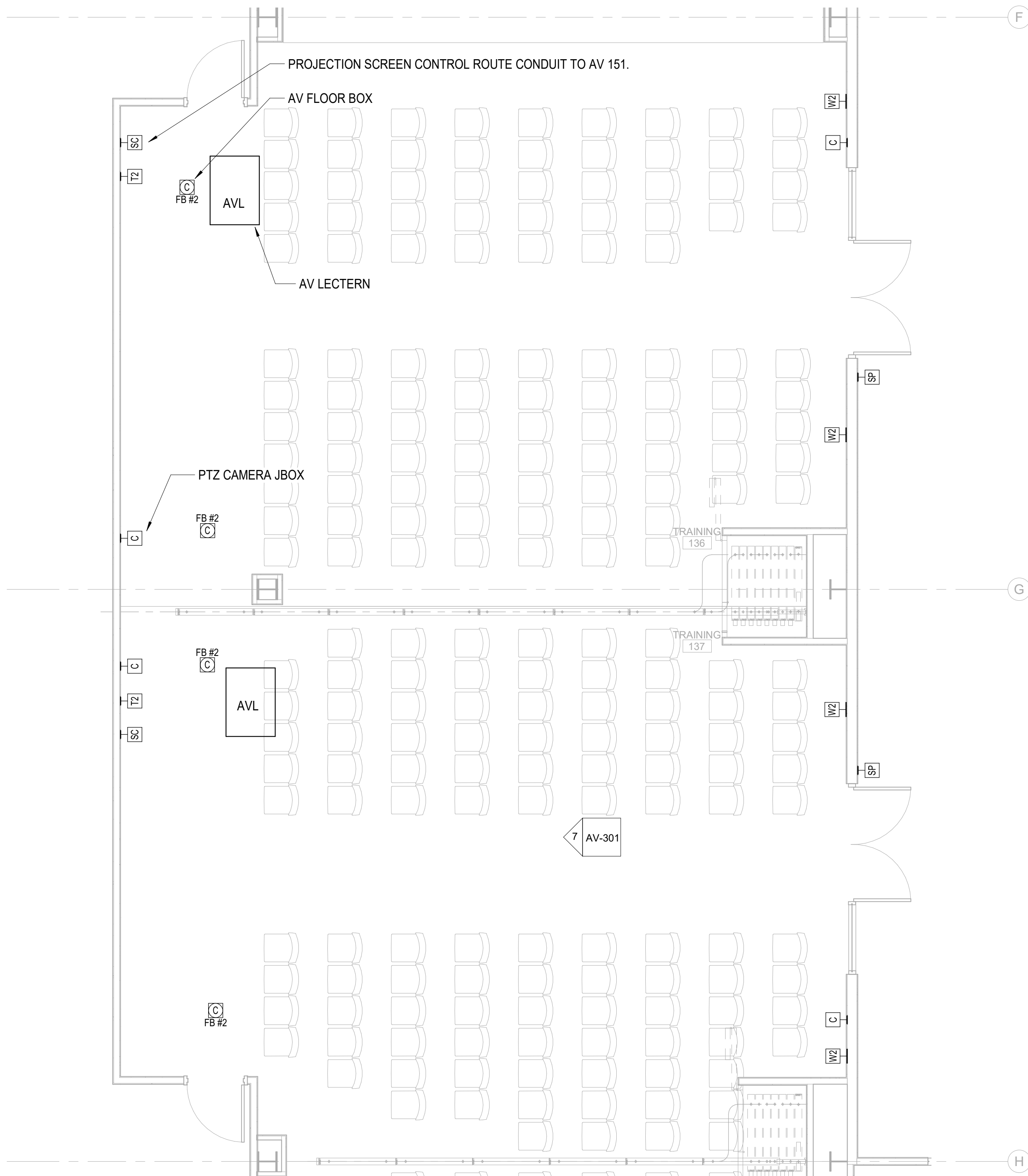
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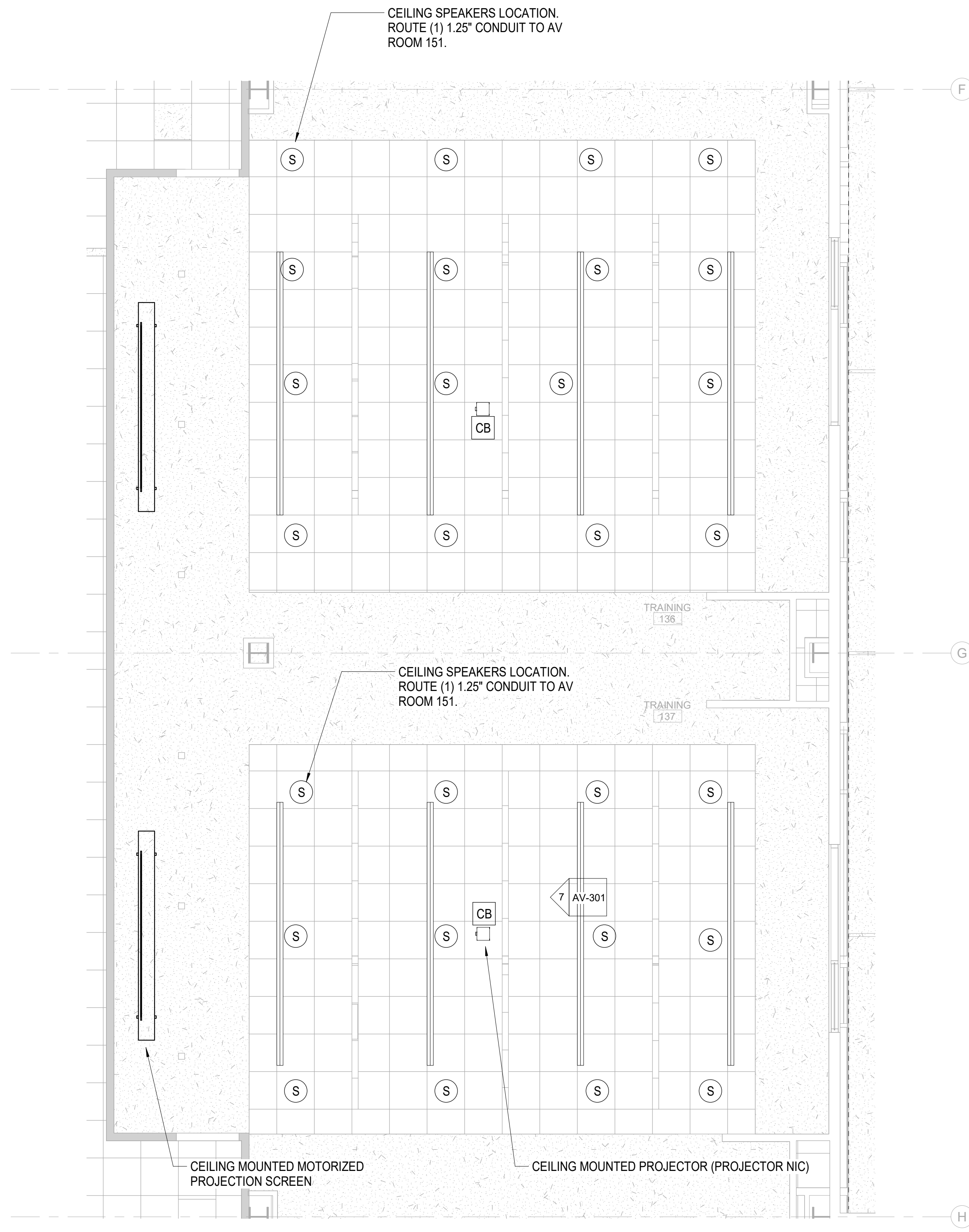
1 AV SERVER RM 145 - ENLARGED PLAN  
AV-201/ 1/4" = 1'-0"



2 AV ROOM 151 - ENLARGED PLAN  
AV-201/ 1/4" = 1'-0"



3 AV TRAINING ROOM(S) 136/137 - ENLARGED PLAN  
AV-201/ 1/4" = 1'-0"



4 AV TRAINING ROOM(S) 136/137 - ENLARGED RCP PLAN  
AV-201/ 1/4" = 1'-0"

**Newcomb & Boyd**  
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A	DATE	DESCRIPTION
A	2020.08.18	TI- SCHEMATIC DESIGN
B	2020.10.16	TI- DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

SHEET NAME:  
AUDIO VISUAL  
ENLARGED PLANS

DATE: 2020.12.16  
CURRENT: 2021.01.08

ADDENDUM #2

SHEET:

**AV-201**

GMP SET



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IC Government Center 7702-190810

WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

[illegible]

**SHEET NAME:**  
**AUDIO VISUAL**  
**ENLARGED PLANS**

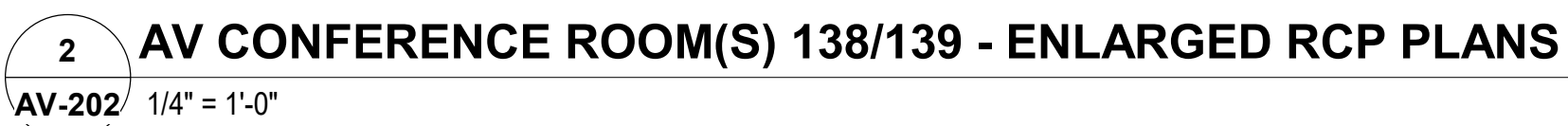
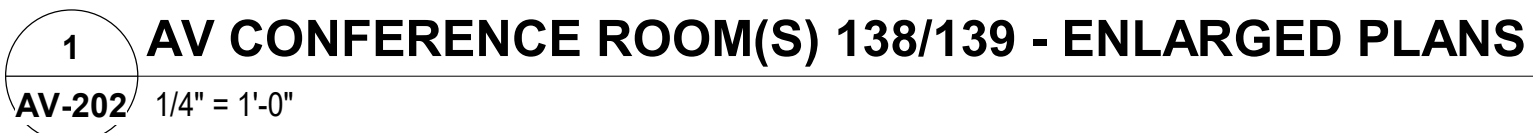
DATE: 2020.12.16  
CURRENT: 2021.01.08

## ADDENDUM #2

**SHEET:**

# AV-202

## MP SET



**Newcomb & Boyd**  
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Consulting Engineering Group  
5425 Page Rd  
Suite 215  
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Contact: Paul J. Kitchens  
N&B PROJECT: 19N342  
Firm License No. F-0312

THE LINE SHOWN INDICATES THE LOCATION OF THE BACK OF THE BOX. THE LINE SHOWN INDICATES THE LOCATION OF THE FRONT OF THE BOX.

E

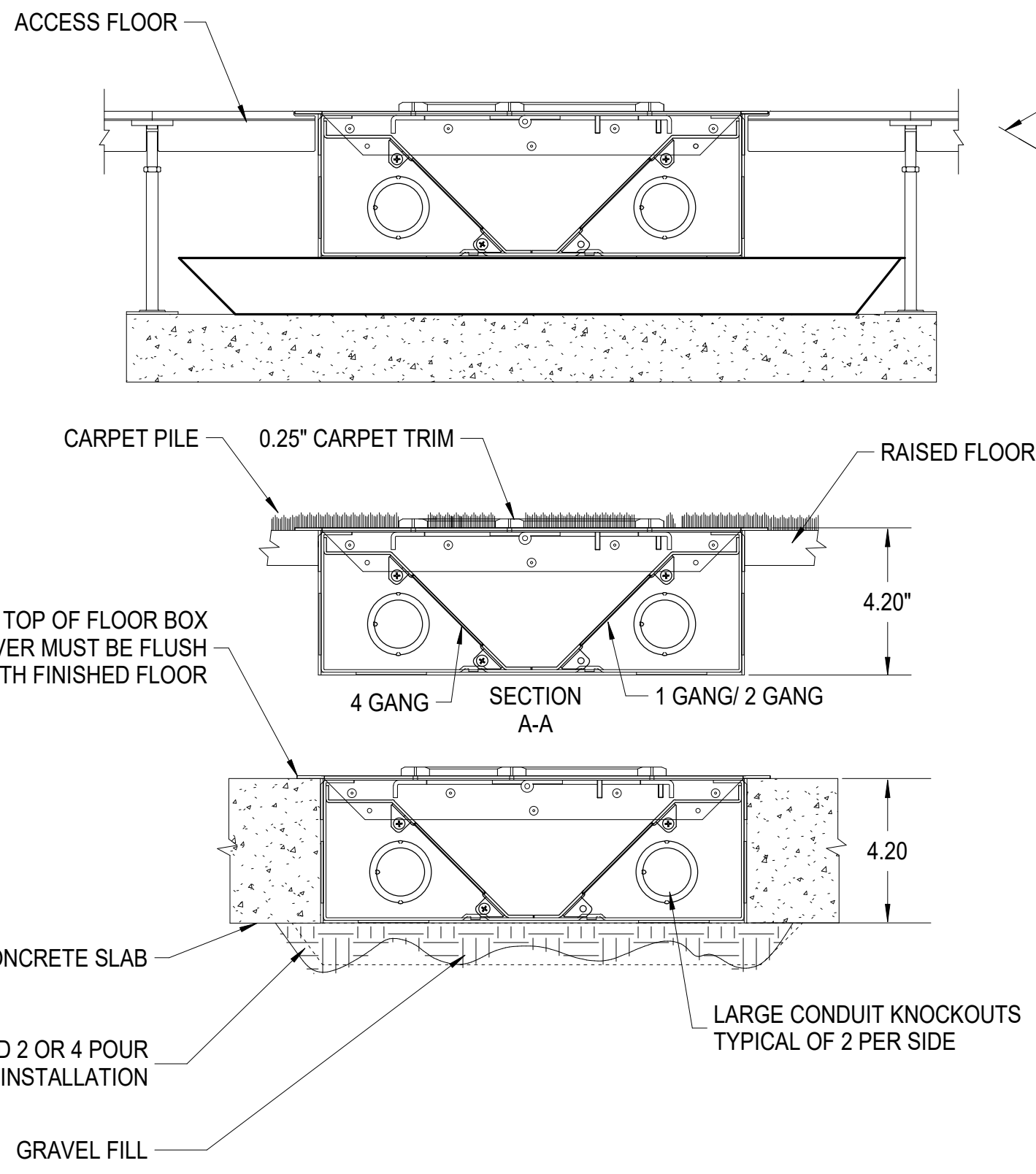
D

C

B

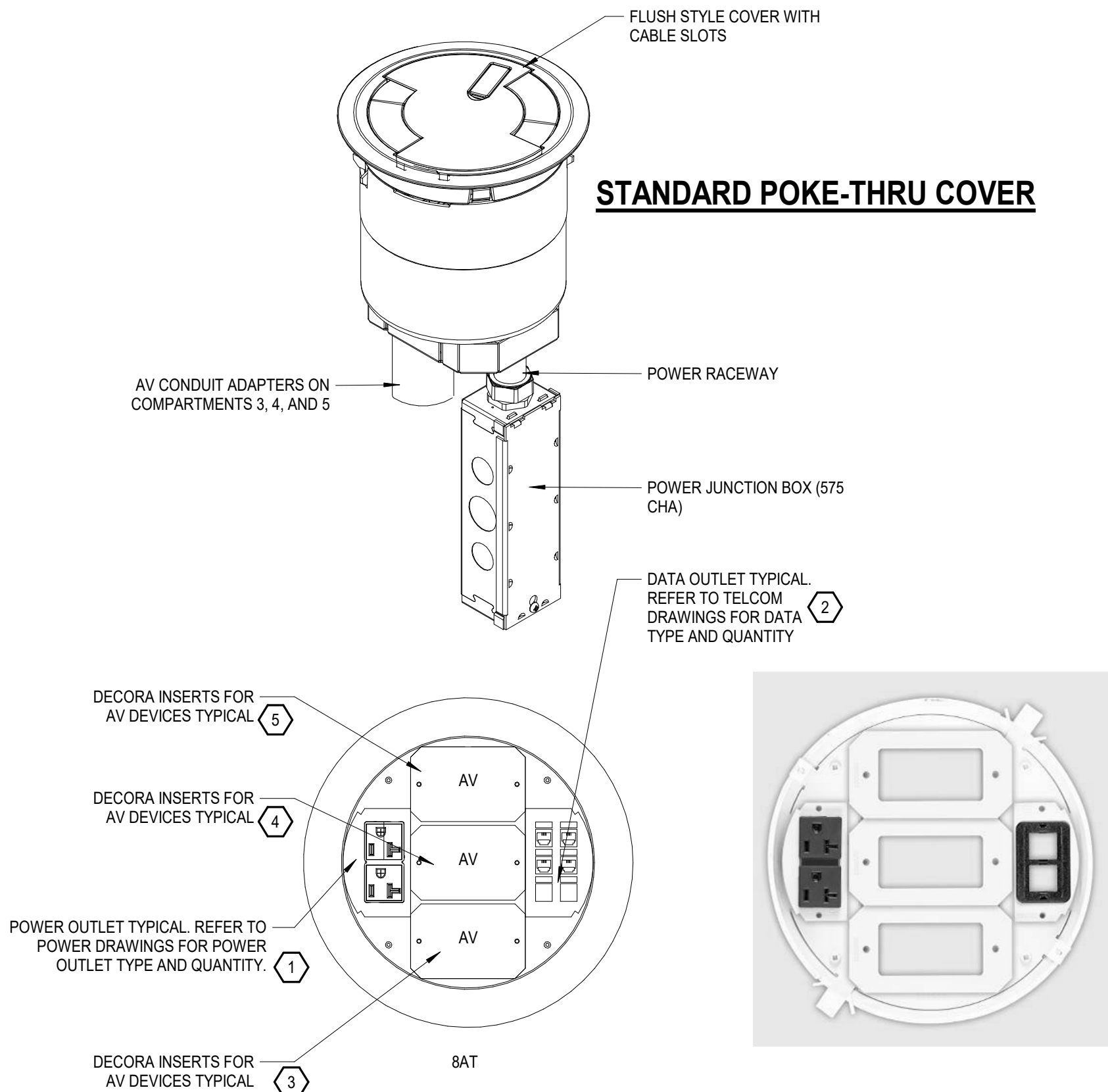
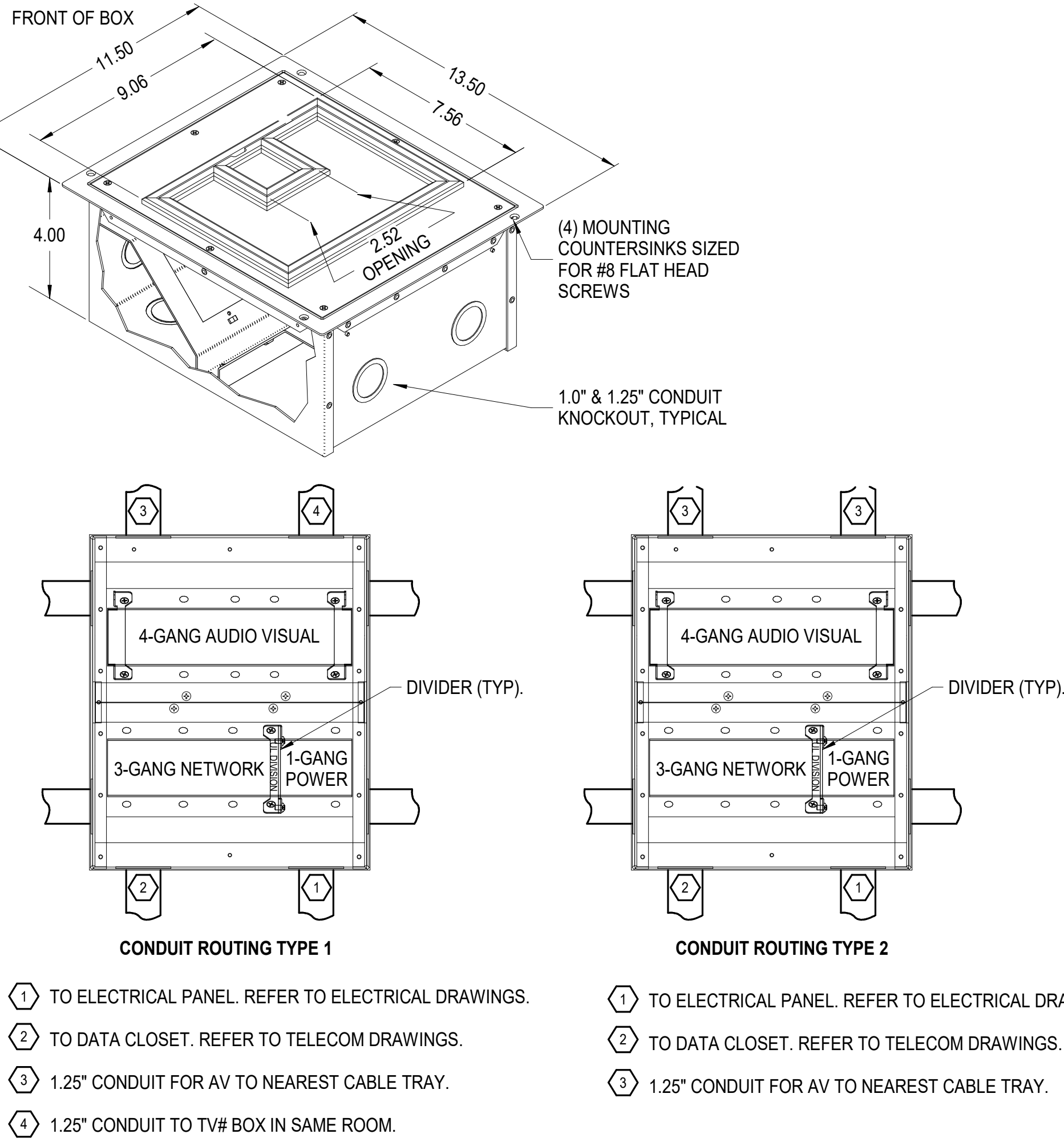
A

1 AV-401		SHARED FLOOR BOX - FSR 500P-4 DETAILS	NTS	2 AV-401	POKE-THRU WIREMOLD 8AT DETAILS	NTS
3 AV-401		AV FLAT PANEL DISPLAY PAC501 MOUNT DETAILS	NTS	4 AV-401	AV FLAT PANEL DISPLAY PAC526 MOUNT DETAIL	NTS

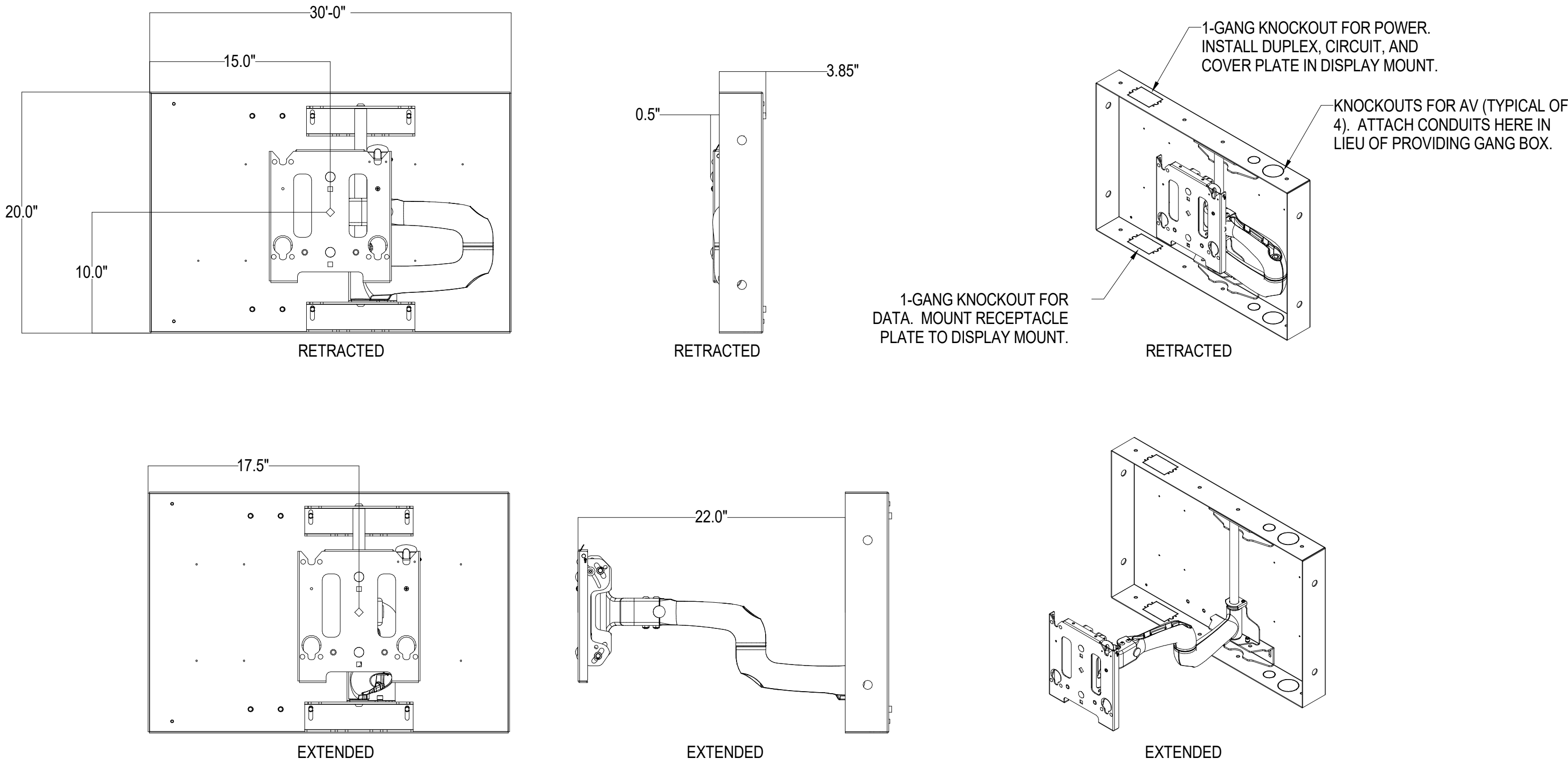


- NOTES (THIS DETAIL ONLY):**
- FLOOR BOX DIMENSIONS 10.0" (W) x 12.16" (L) x 4.0" (D).
  - FLOOR BOX HAS (8) CONDUIT KNOCKOUTS ON BOTTOM.
  - ALL KNOCKOUTS ARE FOR 0.75", 1.0" OR 1.25" CONDUIT.
  - ALL FLOOR BOXES TO HAVE FLAT COVER.
  - PROVIDE SIGNAL "DIVIDERS" AS REQUIRED.
  - BASIS OF DESIGN:  
FOR RAISED FLOORS: FSR-FL540P  
FOR SLAB ON GRADE: FSR-FL500P

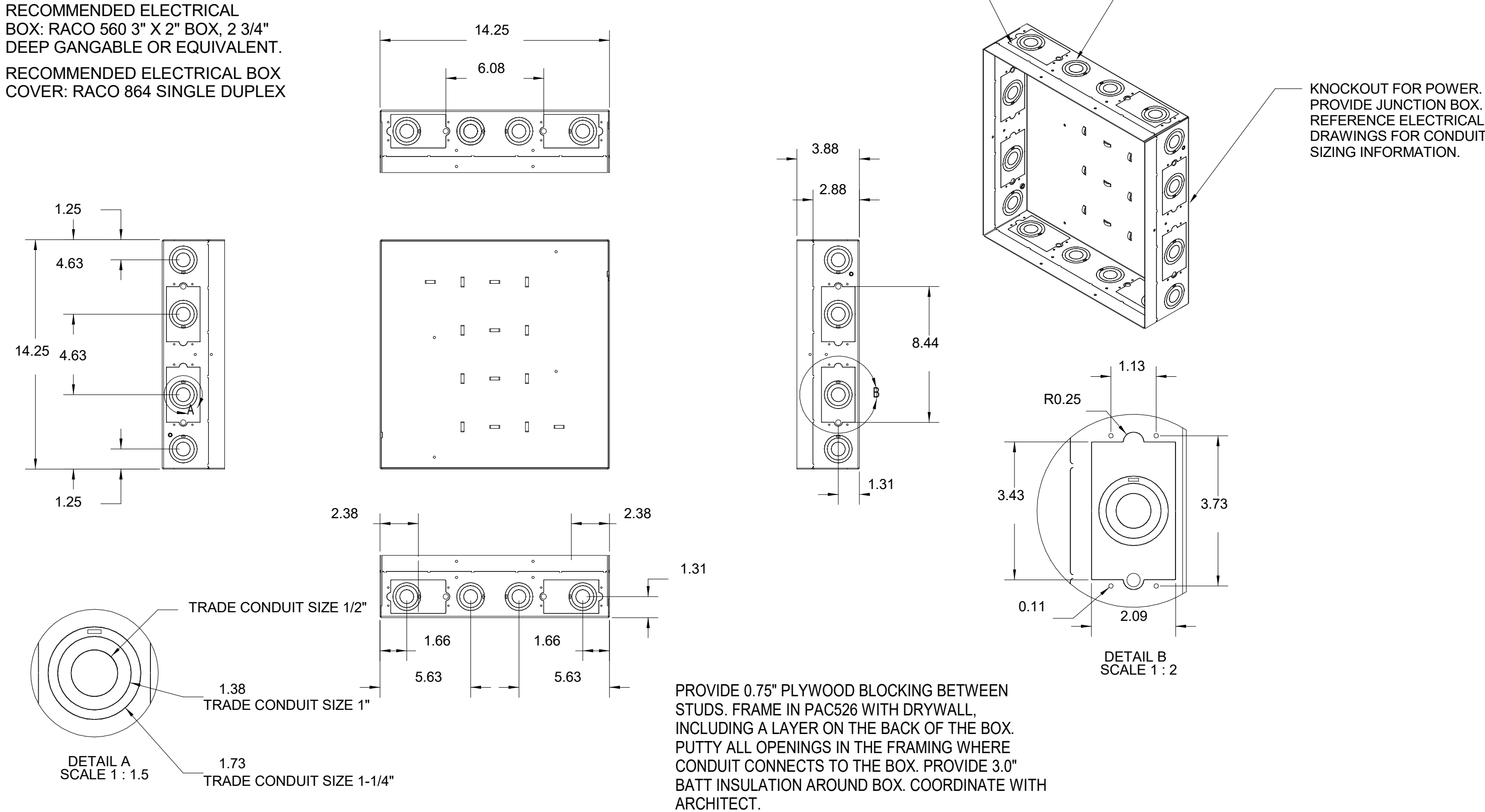
**NOTE:**  
FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.



- NOTES (THIS DETAIL ONLY):**
- SELECTED PLATES:**
- COMPARTMENT 1: 68REC - TWO (2) PROPRIETARY 20AMP DUPLEX POWER RECEPTACLES WITH MOUNTING PLATES.
  - COMPARTMENT 2: 682A - 2 PORT COMMUNICATIONS DEVICE PLATE.
  - COMPARTMENT 3: 8DEC - SINGLEGANG DEVICE PLATE THAT WILL ACCEPT DECORATOR STYLE DEVICES SUCH AS 20A RECEPTACLES, GGCIS, 106 ADAPTERS OR AV DEVICES. FITS IN ANY ONE (1) OF THE THREE (3) GANGS IN THE CENTER COMPARTMENT.
  - COMPARTMENT 4: 8DEC - SINGLEGANG DEVICE PLATE THAT WILL ACCEPT DECORATOR STYLE DEVICES SUCH AS 20A RECEPTACLES, GGCIS, 106 ADAPTERS OR AV DEVICES. FITS IN ANY ONE (1) OF THE THREE (3) GANGS IN THE CENTER COMPARTMENT.
  - COMPARTMENT 5: 8DEC - SINGLEGANG DEVICE PLATE THAT WILL ACCEPT DECORATOR STYLE DEVICES SUCH AS 20A RECEPTACLES, GGCIS, 106 ADAPTERS OR AV 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: 575THA - 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 TV# BOX IN SAME ROOM AS POKE THROUGH.



- NOTES:** (THIS DETAIL ONLY)
- 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).
  - CENTER PAC501B AT HEIGHT INDICATED ON ELEVATIONS AND/OR FLOOR PLANS.
  - 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.
  - PROVIDE TRIM KIT FOR PAC501B.
  - COMPLETE DISPLAY ASSEMBLY SHALL SUPPORT 125 LBS, MINIMUM.
  - REFERENCE ARCHITECTURAL DETAILS FOR SOUND ISOLATION REQUIREMENTS.



- NOTES:** (THIS DETAIL ONLY)
- BASIS OF DESIGN IS THE CHIEF MANUFACTURING PAC526F (IN-WALL BACK BOX).
  - CENTER PAC526F AT HEIGHT INDICATED ON ELEVATIONS AND FLOOR PLANS.
  - INSTALL PAC526F PER MANUFACTURER'S INSTRUCTIONS. PROVIDE PLYWOOD FRAMING AROUND PAC526F PER MANUFACTURER'S INSTRUCTIONS.
  - PROVIDE TRIM KIT FOR PAC526F.
  - COMPLETE DISPLAY ASSEMBLY SHALL SUPPORT 125 LBS, MINIMUM.
  - REFERENCE ARCHITECTURAL DETAILS FOR SOUND ISOLATION REQUIREMENTS.

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CAPE FEAR FD STONEWATER

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NOT FOR  
CONSTRUCTION

NHC Government Center 7702-190810

**NEW HANOVER COUNTY**  
**GOVERNMENT CENTER**  
GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
LS3P PROJECT: 7702-190810

A	DATE	DESCRIPTION
A	2020.08.18	TI-SCHEMATIC DESIGN
B	2020.10.16	TI-DESIGN DEVELOPMENT
C	2020.12.16	GMP SET
E	2021.01.08	ADDENDUM #2

**SHEET NAME:**  
AUDIO VISUAL  
DETAILS

**DATE:** 2020.12.16  
**CURRENT:** 2021.01.08

ADDENDUM #2

**SHEET:**

**AV-401**

GMP SET