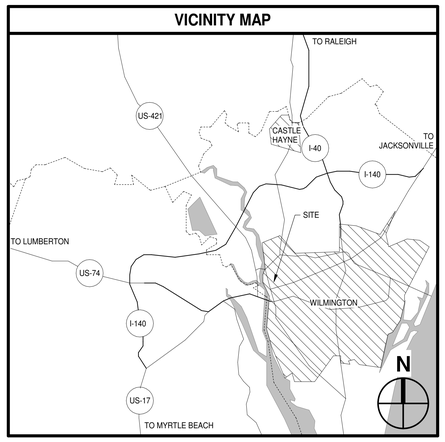
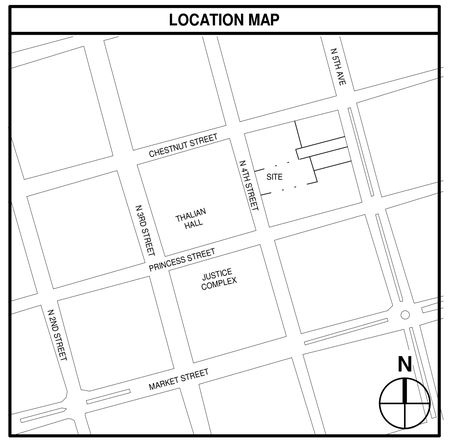
CONSTRUCTION DOCUMENTS

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC





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WITHERS RAVENEL — CIVIL ENGINEERING

219 STATION ROAD, SUITE 101 — WILMINGTON, NC

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THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

COVER

SET NO.

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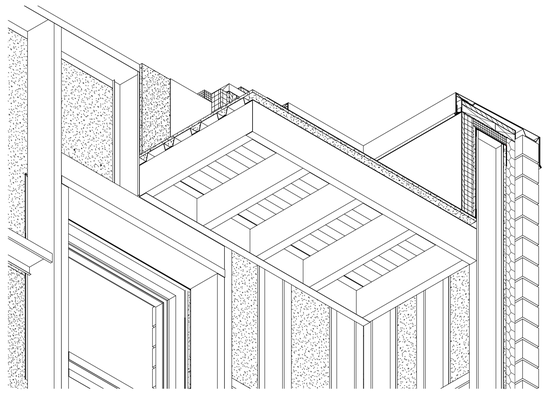
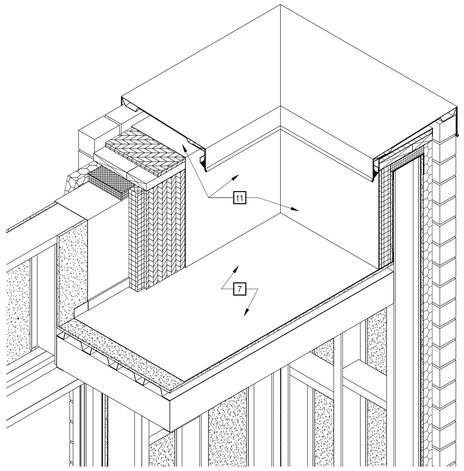
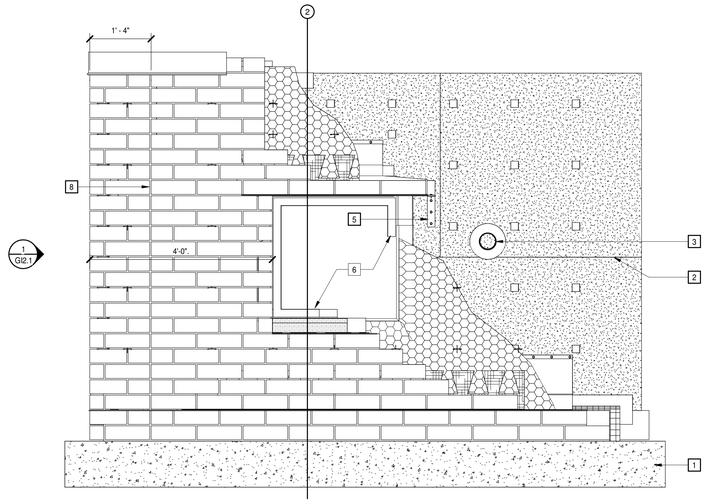
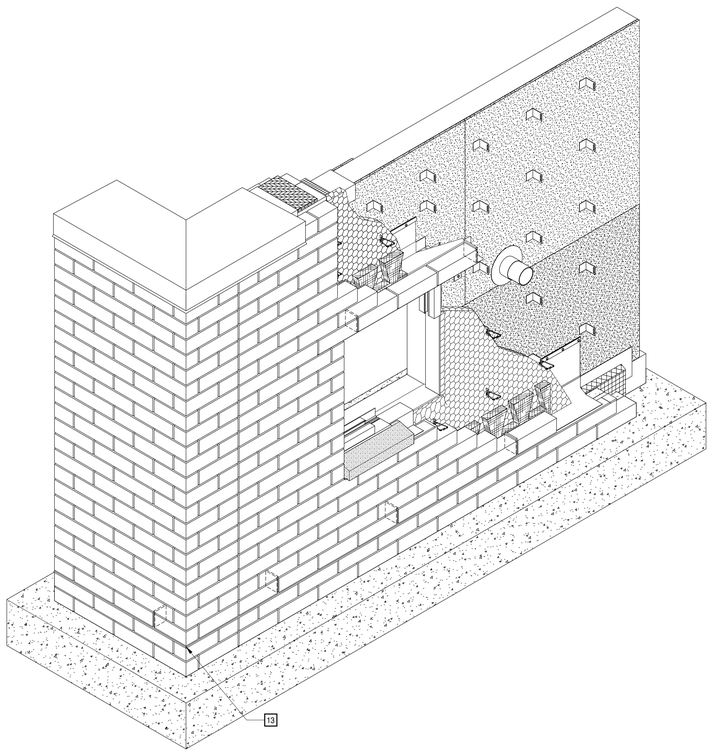
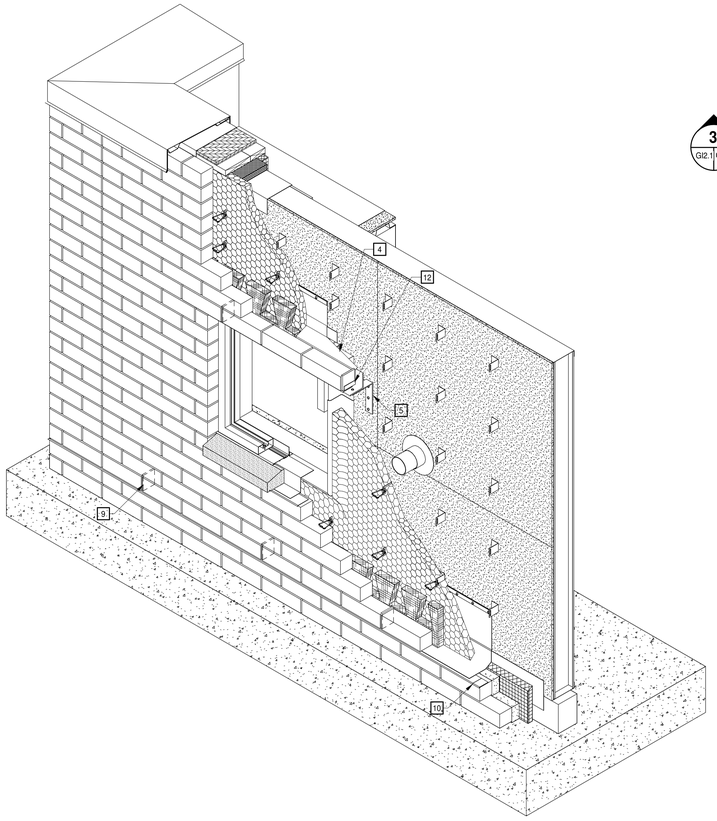


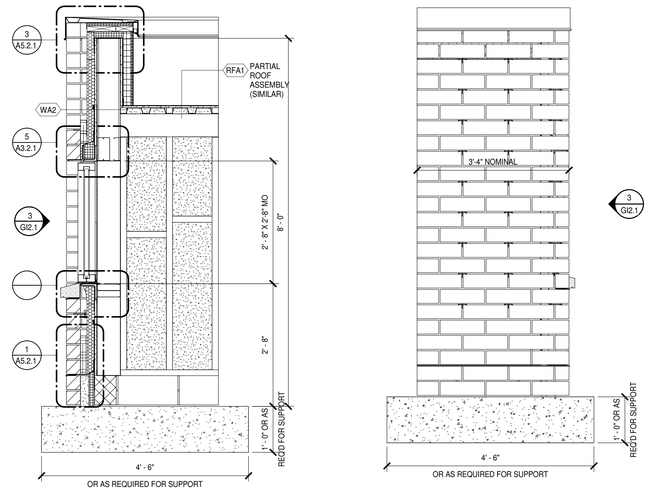




3 GI2.1 G1.1 **INTEGRATED MOCKUP FRONT ELEVATION**
3/4" = 1'-0"







2 G1.1 G1.1 **INTEGRATED MOCKUP SECTION**
3/4" = 1'-0"

1 GI2.1 G1.1 **INTEGRATED MOCKUP SIDE ELEVATION**
3/4" = 1'-0"

EXTERIOR INTEGRATED MOCKUP PANEL DRAWINGS ARE CONCEPTUAL IN NATURE AND COMPLEMENT OTHER RELATED DRAWINGS AND DETAILS. USE EXTERIOR INTEGRATED MOCKUP PANEL TO DEMONSTRATE AN UNDERSTANDING OF THE MATERIAL INTEGRATION, SEQUENCING, AND PROCESSES REQUIRED TO COORDINATE THESE COMPONENTS AND BUILDING EXTERIOR WALL ASSEMBLY.

REFER TO RELATED AND REFERENCED DETAILS, SECTIONS, WALL ASSEMBLIES, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CONSTRUCT IN "STEPPED BACK" METHOD AS SHOWN. LEAVE AND PROTECT INDICATED MATERIALS EXPOSED UNTIL PANEL IS DEMOLISHED.

KEYNOTES

APPLIES TO DRAWING GI2.1 ONLY
REPRESENTED BY X

1. CONCRETE PAD - SIZE AS REQUIRED TO PROVIDE SUPPORT FOR ENTIRE INTEGRATED MOCKUP PANEL. PROVIDE SUPPLEMENTAL DIAGONAL BRACING IF REQUIRED TO SUPPORT ENTIRE PANEL.
2. SEAL & TREAT SHEATHING JOINTS AS REQUIRED BY SPECS
3. 4" DIA PIPE PENETRATION W/ TRANSITION MEMBRANE SURROUND
4. EXTEND FLASHING TO FORM END DAM WHILE CUTTING AWAY ENOUGH FLASHING TO EXPOSE CONSTRUCTION BEHIND
5. PROVIDE GALVANIZED OR STAINLESS STEEL BRACKET AND SECUREMENT AS REQUIRED TO SUPPORT END OF LOOSE STEEL ANGLE LINTEL
6. CUT FRAME AS INDICATED - GLAZING NOT REQUIRED
7. 2'-0"W x 4'-0"L STEEL DECK ON CFSF-S SUPPORT BOLTED TO SOLID CMU WITH ROOF SUBSTRATE BOARD AND AIR BARRIER MEMBRANE SHEET.
8. JOINT IN VENEER ONLY W/ SEALANT SELECTED BY ARCHITECT
9. CELL VENT WEEPS
10. PROVIDE AND SEAL JOINT AT DRIP EDGE
11. ROOF MEMBRANE UP PARAPET WALL AND OVER BLOCKING
12. FORM END DAM AT HEAD/JAMBS
13. CLIP/CUT DRIP EDGE TO FORM RADIUS AROUND CORNER - AVOID POINTED/SHARP EDGES

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NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

INTEGRATED MOCKUP PANEL

G1.1

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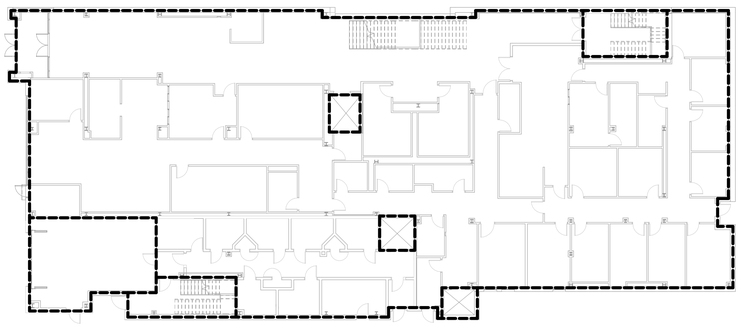
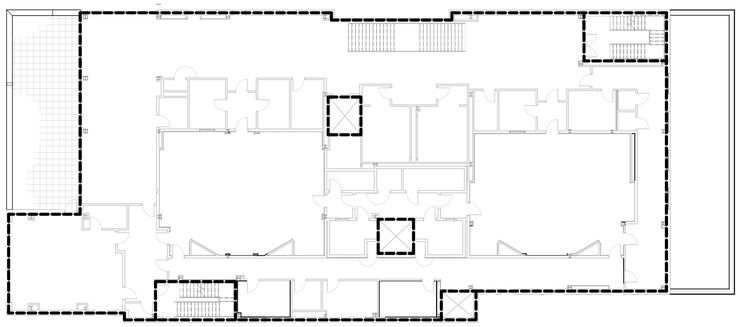


AIR BARRIER CONCEPT PLAN - FIRST FLOOR
NO SCALE



AIR BARRIER CONCEPT PLAN - SECOND FLOOR
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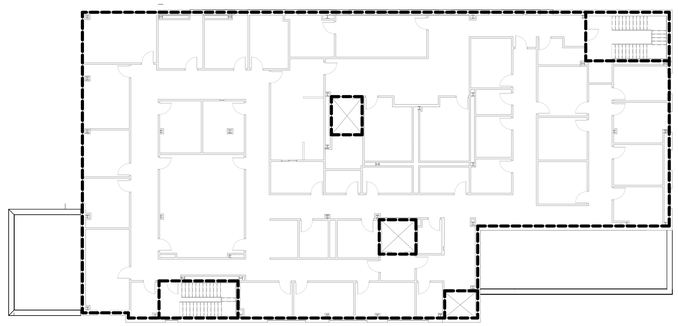
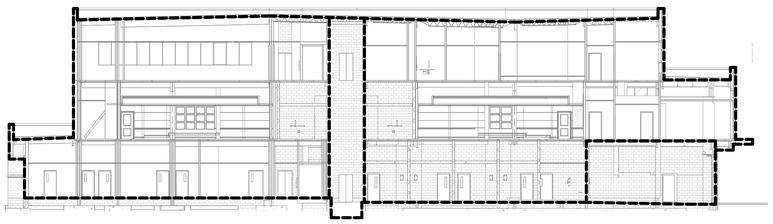


AIR BARRIER CONCEPT PLAN - THIRD FLOOR
NO SCALE



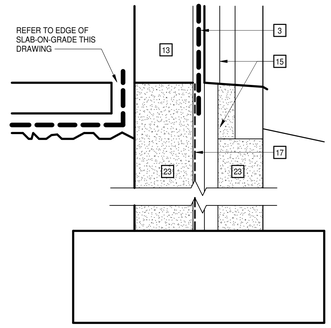
AIR BARRIER CONCEPT SECTION
NO SCALE

FLOOR PLAN/BUILDING SECTION LEGEND	
- - - - - - -	EXTENT OF AIR BARRIER MEMBRANE / MATERIAL / SYSTEM AND EXTERIOR BUILDING ENVELOPE ENCLOSURE

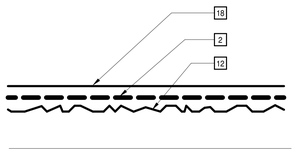
THIS DRAWING DEPICTS THE EXTENT OF THE AIR BARRIER MEMBRANE / MATERIAL / SYSTEM AND EXTERIOR BUILDING ENVELOPE ENCLOSURE. THE DRAWING IS CONCEPTUAL IN NATURE AND IS COMPLEMENTARY TO OTHER AIR BARRIER AND BUILDING ENVELOPE ENCLOSURE DETAILS, SECTIONS, ASSEMBLIES, AND SPECIFICATIONS.

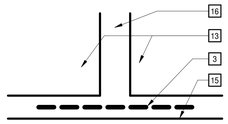
THE UNDERSLAB VAPOR / AIR BARRIER MATERIAL IN ASSOCIATION WITH THE AIR BARRIER MEMBRANE / MATERIAL ON THE WALLS AND ROOF COMPOSE THE EXTERIOR BUILDING ENVELOPE ENCLOSURE TO PREVENT AIR INFILTRATION AND EXFILTRATION.

THE EXTERIOR BUILDING ENVELOPE ENCLOSURE MAY EXTEND WITHIN EXTERIOR WALLS WHERE THE INTERIOR AND EXTERIOR ENVIRONMENTS ARE NOT SEPARATED (E.G., MECHANICAL AND ELECTRICAL ROOMS, STAIRS, ELEVATORS, AND SIMILAR UNCONDITIONED SPACES). IN SUCH AREAS, MAINTAIN AIR BARRIER CONTINUITY AT THE PARTITIONS SEPARATING THEM FROM CONDITIONED SPACES, SEALING ALL PENETRATIONS, VOIDS, AND GAPS FROM FLOOR TO DECK ABOVE. WHERE SUCH AREAS HAVE PAINTED MASONRY PARTITIONS WITH ADJACENT, SUSPENDED CEILINGS, CONTINUE PAINT FINISH ABOVE CEILINGS FULL HEIGHT TO DECK.

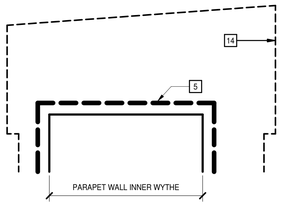


REFER TO WALL SECTIONS, WALL ASSEMBLIES, AND BASE OF WALL DETAIL FOR ADDITIONAL INFORMATION

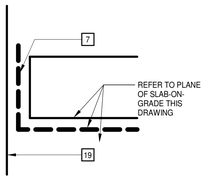




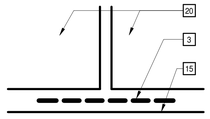
REFER TO WALL ASSEMBLIES AND JOINT TYPES FOR ADDITIONAL INFORMATION



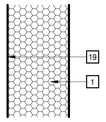
REFER TO WALL SECTIONS AND WALL ASSEMBLIES FOR ADDITIONAL INFORMATION



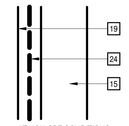
REFER TO SLAB-ON-GRADE BOUNDARY CONDITIONS FOR ADDITIONAL INFORMATION



PLAN OR SECTION VIEW

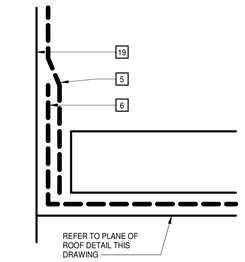


AT SPF CONDITIONS

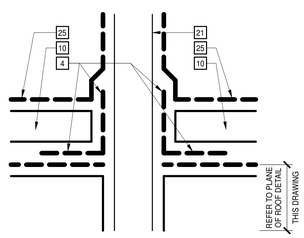


AT NON-SPF CONDITIONS

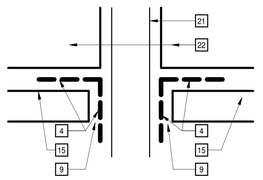
REFER TO WALL ASSEMBLIES FOR ADDITIONAL INFORMATION



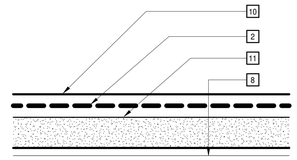
REFER TO ROOF AND WALL ASSEMBLIES FOR ADDITIONAL INFORMATION



REFER TO ROOF ASSEMBLIES FOR ADDITIONAL INFORMATION



REFER TO ROOF ASSEMBLIES FOR ADDITIONAL INFORMATION



REFER TO ROOF ASSEMBLIES FOR ADDITIONAL INFORMATION

KEYNOTES
APPLIES TO THIS DRAWING
REPRESENTED BY [n]

1. SPF AIR BARRIER
2. VAPOR/AIR BARRIER MEMBRANE
3. AIR BARRIER TRANSITION STRIP
4. AIR BARRIER TRANSITION STRIP AROUND ENTIRE PENETRATION
5. AIR BARRIER MEMBRANE - LAP AND CONTINUE UP AND OVER PARAPET
6. VAPOR/AIR BARRIER MEMBRANE - TURN UP, PROVIDE CONTINUOUS AIR-TIGHT SEAL AND ADHERE TO WALL AND TERMINATE PER MFR INSTRUCTIONS
7. VAPOR/AIR BARRIER MEMBRANE - EXTEND UP FACE OF WALL, PROVIDE CONTINUOUS AIR-TIGHT SEAL AND ADHERE TO WALL, THEN CUT OFF FLUSH WITH TOP OF SLAB
8. ROOF DECK
9. FULLY SEAL BETWEEN INSULATION AND PENETRATION ITEM
10. ROOF INSULATION
11. SUBSTRATE BOARD
12. POROUS FILL
13. EXTERIOR WALL INNER WYTHE
14. COPING - OUTLINE MAY VARY
15. CAVITY INSULATION
16. JOINT WIDTH VARIES
17. DAMPPROOFING
18. SLAB-ON-GRADE
19. FACE OF WALL, SHEATHING OR VERTICAL ELEMENT
20. DISSIMILAR MATERIALS
21. PENETRATING ITEM
22. MATERIAL OR WALL BEING PENETRATED
23. GROUTED SOLID MASONRY - SERVES AS AIR BARRIER
24. AIR BARRIER SYSTEM
25. ROOF MEMBRANE

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE, NC

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

GENERAL INFORMATION - AIR BARRIER

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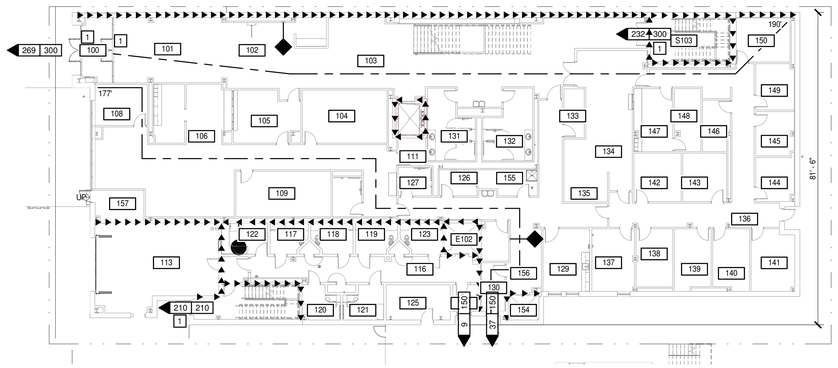
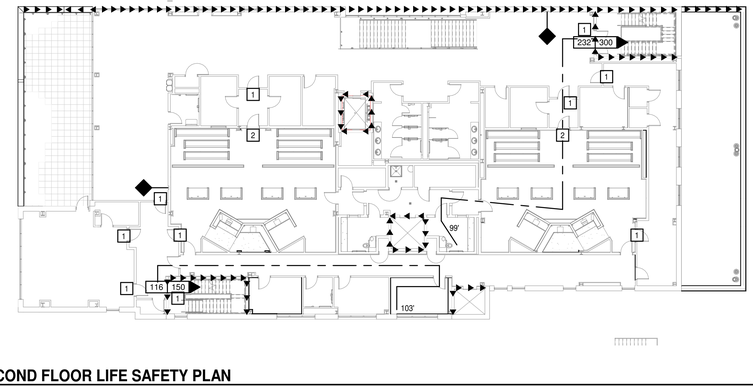


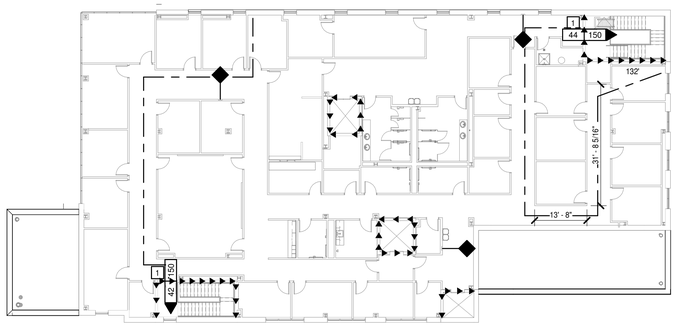
1 FIRST FLOOR LIFE SAFETY PLAN

1/16" = 1'-0"



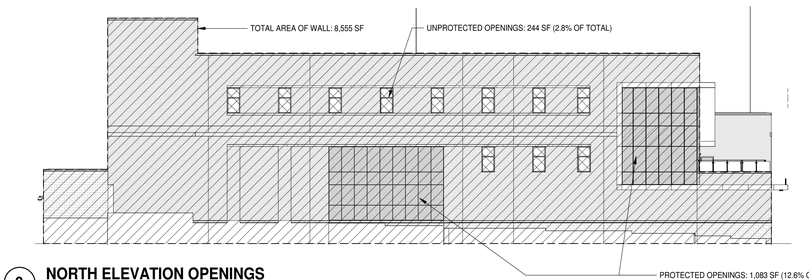
2 SECOND FLOOR LIFE SAFETY PLAN

1/16" = 1'-0"



3 THIRD FLOOR LIFE SAFETY PLAN

1/16" = 1'-0"



9 NORTH ELEVATION OPENINGS

1/16" = 1'-0"

BUILDING - 1 DATA

PRIMARY OCCUPANCY CLASSIFICATION:	B: Business		
SECONDARY OCCUPANCY CLASSIFICATION:	I-3: Institutional		
CONSTRUCTION TYPE:	IIB		
FULLY SPRINKLED:	Yes		
MIXED OCCUPANCY:	Yes		
NON-SEPARATED MIXED USE:	Yes	DESIGN OCCUPANCY CLASSIFICATION:	B: Business
SEPARATED MIXED USE:	No		

FRONTAGE INCREASE TABULATIONS	F	P	W	AREA INCREASE FOR FRONTAGE (%)
	88	541.5	30	0.00

BUILDING HEIGHT IN FT (ACTUAL)	BUILDING STORIES (ACTUAL)	TABULAR		ALLOWABLE INCREASE		TOTAL ALLOWABLE	
		HEIGHT (FT)	STORIES	HEIGHT (FT)	STORIES	HEIGHT (FT)	STORIES
58	4	55	3	20	1	75	4

STORY LEVEL	TABULAR AREA (SF)	SPRINKLER INCREASE (SF)	FRONTAGE INCREASE (SF)	ALLOWABLE AREA PER STORY (SF)	BUILDING AREA PER STORY (ACTUAL SF)	ALLOWABLE LARGER THAN ACTUAL
STORY 1	23,000	0	0	23,000	14,511	YES
STORY 2	23,000	0	0	23,000	12,589	YES
STORY 3	23,000	0	0	23,000	11,355	YES
STORY 4	23,000	0	0	23,000	330	YES
TOTAL BUILDING AREA				92,000	38,785	YES

AREA DETERMINATION:	Fully Sprinklered	MAXIMUM BUILDING AREA:	Allowable times # of Stories

ACTUAL FACILITY SF AREA

BUILDING	STORY LEVEL 1 (SF)	STORY LEVEL 2 (SF)	STORY LEVEL 3 (SF)	STORY LEVEL 4 (SF)	TOTAL AREA
1	14,511	12,589	11,355	330	38,785
TOTAL AREA	**14,511**	**12,589**	**11,355**	**330**	**38,785**

FACILITY OCCUPANT LOAD

BUILDING	OCCUPANCY	OCCUPANT LOAD PER OCCUPANCY				
		STORY 1	STORY 2	STORY 3	STORY 4	TOTAL
1	A-1					0
	A-2					0
	A-3					0
	A-4					0
	A-5					0
	B	74	346	85		505
	E					0
	F-1					0
	F-2					0
	I-2					0
	I-3	9	2			11
	I-4					0
	M					0
	R-1/R-2					0
	S-1					0
	S-2					0
	BUILDING TOTAL	**83**	**348**	**85**	**0**	**516**
	NUMBER OF EXITS	**4**	**2**	**2**		
	OUTDOOR AREA(S)		---	---	---	**0**
TOTAL FACILITY OCCUPANCY		**83**	**348**	**85**	**0**	**516**

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

CONSTRUCTION TYPE: BUILDING #1	IIB	
BUILDING ELEMENT	**REQUIRED RATING**	
PRIMARY STRUCTURAL FRAME	0 HRS	
EXTERIOR BEARING WALLS	1 HR	At North Wall only, per Table 602
INTERIOR BEARING WALLS	0 HRS	
EXTERIOR NONBEARING WALLS AND PARTITIONS	1 HR	At North Wall only, per Table 602
INTERIOR NONBEARING WALLS AND PARTITIONS	0 HRS	
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0 HRS	
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HRS	
FIRE WALLS	0 HRS	
FIRE BARRIERS	-NA-	
SHAFT ENCLOSURES (Less than 4 stories)	1 HR	
SHAFT ENCLOSURES (4 or more stories)	-NA-	
EXIT ENCLOSURES (Less than 4 stories)	-NA-	
EXIT ENCLOSURES (4 or more stories)	-NA-	
FIRE PARTITIONS	1 HR	I-3/B occupancies
SMOKE BARRIERS	-NA-	
SMOKE PARTITIONS	-NA-	
CORRIDORS	0 HRS	
HORIZONTAL ASSEMBLIES	1 HR	Duct Chase below Boiler Room

LIFE SAFETY PLAN KEYNOTES

1. PANIC EXIT HARDWARE
2. PUSH PLATE DOOR HARDWARE

AREA MODIFICATIONS FORMULA CALCULATIONS

IBC Section 506

Aa Allowable Area per Story (square feet)
At Tabular Area per Story in accordance with Table 503 (square feet)
If Area increase due to frontage (percent) as calculated in accordance with Section 506.2
Is Area increase due to sprinkler protection (percent) as calculated in accordance with Section 506.3

Where a building has more than 25% of its perimeter on a public way or open space having a minimum width of 20', the frontage increase shall be determined in accordance with the following:

If = 100 ((F/P) -0.25) (W/30)

W =	30	Must be between 20 and 30; default to 20 unless entire perimeter is 30' or more
F =	88	Total frontage perimeter of building (at least 20 feet or more) in linear feet
P =	541.5	Total perimeter of building in linear feet
If =	**0.00**	Area increase due to frontage (percent)

Automatic Sprinkler System Increase

Is =	0	Percent increase if you do not have a sprinkler system
Is =	300	Percent increase for a single-story building
Is =	200	Percent increase for a multi-story building
Is =		Fill in either 300, 200, or 0

At =	**23,000**	

Final Calculations

Aa =	**23,000**	Allowable Area per story (square feet)
		Refer to Table 503 for number of stories allowed

LIFE SAFETY SYMBOL LEGEND

APPLIES TO LS SERIES OF DRAWINGS ONLY

DESIGNATOR MATRIX

	WALL	BARRIER	PARTITION	RATED EXT WALL
4 HR FIRE				
3 HR FIRE				
2 HR FIRE				
1 HR FIRE				
½ HR FIRE				
SMOKE				
INCIDENTAL				

NOTE:
WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.

DOUBLE FIRE WALL

'n' = RATING IN HOURS — nDFW — DFW = DOUBLE FIRE WALL

NOTE: RATINGS MAY VARY, REFER TO A0.2 FOR ACTUAL RATINGS OF FIRE WALLS COMPOSING THE DOUBLE FIRE WALLS

SYMBOLS

- 1205 — ROOM NUMBER
- 798 | 1280 — DIRECTION OF EGRESS; EGRESS LOAD CAPACITY; NUMBER OF OCCUPANTS
- DIRECTION OF EGRESS; NUMBER OF OCCUPANTS; EGRESS LOAD CAPACITY — 798 | 1280
- XXX-X" — MAXIMUM TRAVEL DISTANCE
- XXX-X" CPOT — COMMON PATH OF TRAVEL
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER BRACKET
- EXTENT OF SPRAYED-ON/APPLIED FIRE PROOFING
- EXTENT OF SMOKE COMPARTMENT
- EXTENT OF FLOOR / CEILING AND/OR ROOF / CEILING ASSEMBLY
- 3 — BUILDING NUMBER

FIRE RATED ASSEMBLIES

REPRESENTED BY Xn

THE ASSEMBLIES REFERENCED ARE BASIS OF DESIGN; EQUIVALENT COMPATIBLE TESTED ASSEMBLIES WILL BE ACCEPTABLE IF APPROVED BY THE LAHJ

MARK	FIRE RATING	APPLIES TO	REFERENCE	REMARKS
X1	1 HR	FIRE PARTITIONS/BARRIERS AT M TYPE WALLS	UL U914	--
X2	1 HR	FIRE PARTITIONS/BARRIERS AT P TYPE WALLS	UL U499	--

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA MARLOWE, P.C.

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.: 571990	DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

LIFE SAFETY INFORMATION

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OCCUPANCY SCHEDULE

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	AREA SF	AREA GROSS	AREA NET	OCCUPANCY LOAD TABULAR	OCCUPANCY LOAD ACTUAL	OCCUPANCY LOAD DESIGN
3EE	NOT USED	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	5	•		1		1
102	SCREENING	B	CIRCULATION	0 SF	228	•			2	2
104	CONFERENCE	B	BUSINESS AREAS	100 SF	306	•		4	8	8
105	CLERK LOBBY	B	BUSINESS AREAS	100 SF	217	•		3	3	3
107	WORK ROOM	B	BUSINESS AREAS	100 SF	124	•		2		2
108	ASST CLERK	B	BUSINESS AREAS	100 SF	146	•		2	1	1
109	FILE STORAGE	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	294	•		1	2	2
111	SUPPLY STORAGE	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	52	•		1		1
115	SEC ELEC	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	73	•		1	1	1
117	HOLDING	I3	BUSINESS AREAS	100 SF	72	•		1	1	1
118	HOLDING	I3	BUSINESS AREAS	100 SF	81	•		1	1	1
119	HOLDING	I3	BUSINESS AREAS	100 SF	81	•		1	1	1
120	ADA HOLDING	I3	BUSINESS AREAS	100 SF	79	•		1	1	1
121	ADA HOLDING	I3	BUSINESS AREAS	100 SF	87	•		1	2	2
122	DEPUTY	I3	BUSINESS AREAS	100 SF	97	•		1	1	1
123	HOLDING	I3	BUSINESS AREAS	100 SF	81	•		1	1	1
125	ELECTRICAL ROOM	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	154	•		1	1	1
129	STAFF BREAK	B	BUSINESS AREAS	100 SF	198	•		2	6	6
133	DATA	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	68	•		1	1	1
134	COMMUNITY JUSTICE SERVICES LOBBY	B	BUSINESS AREAS	100 SF	520	•		6	10	10
135	PLAY	B	BUSINESS AREAS	100 SF	89	•		1	1	1
137	MENTAL HEALTH SUPERVISOR	B	BUSINESS AREAS	100 SF	180	•		2	2	2
138	MENTAL HEALTH CLINICIAN	B	BUSINESS AREAS	100 SF	145	•		2	2	2
139	MENTAL HEALTH CLINICIAN	B	BUSINESS AREAS	100 SF	150	•		2	2	2
140	MENTAL HEALTH CLINICIAN	B	BUSINESS AREAS	100 SF	150	•		2	2	2
141	MENTAL HEALTH SUPERVISOR	B	BUSINESS AREAS	100 SF	179	•		2	2	2
142	MENTAL HEALTH CLINICIAN	B	BUSINESS AREAS	100 SF	155	•		2	2	2
143	MENTAL HEALTH CLINICIAN	B	BUSINESS AREAS	100 SF	144	•		2	2	2
144	MENTAL HEALTH CLINICIAN	B	BUSINESS AREAS	100 SF	113	•		2	2	2
145	MENTAL HEALTH CLINICIAN	B	BUSINESS AREAS	100 SF	114	•		2	2	2
146	TESTING STORAGE	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	92	•		1		1
147	ASST.	B	BUSINESS AREAS	100 SF	165	•		2	2	2
148	FILES	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	112	•		1	1	1
149	MENTAL HEALTH CLINICIAN	B	BUSINESS AREAS	100 SF	120	•		2	2	2
150	TESTING/ CONF	B	BUSINESS AREAS	100 SF	161	•		2	6	6
153	COPIER A / COVE	B	BUSINESS AREAS	100 SF	22	•		1	1	1
156	VENDING	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	140	•		1		1
157	RISER/ BFP	B	BUSINESS AREAS	100 SF	100	•		1	3	3
225	ADA HOLDING CELL	I3	BUSINESS AREAS	100 SF	97	•		1	1	1
228	DATA	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	64	•		1	1	1
229	CONF	B	BUSINESS AREAS	100 SF	102	•		2	2	2
234	COURT ROOM B	B	ASSEMBLY, FIXED SEATING	0 SF	774			14	14	14
235	A/V	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	23	•		1		1
236	A/V	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	18	•		1		1
238	SMALL HOLDING CELL	I3	BUSINESS AREAS	100 SF	97	•		1	1	1
240	COURT ROOM A	B	ASSEMBLY, FIXED SEATING	0 SF	906			14	14	14
241	CHAMBER	B	BUSINESS AREAS	100 SF	144	•		2	3	3
242	SECURITY OFFICE	B	BUSINESS AREAS	100 SF	133	•		2	2	2
243	CHAMBER	B	BUSINESS AREAS	100 SF	131	•		2	3	3
245	EVID	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	24	•		1		1
246	TRAINING/ MULTIPURPOSE	B	ASSEMBLY, CONCENTRATED	7 SF			•		50	50
247	TRAINING STORAGE	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	67	•		1		1
250	CONF	B	BUSINESS AREAS	100 SF	122	•		2	2	2
251	CONF	B	BUSINESS AREAS	100 SF	106	•		2	2	2
252	VICTIM WAITING	B	BUSINESS AREAS	100 SF	131	•		2	2	2
259	ELEC	(none)	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	62	•		1		1
260A	WAITING AREA	B	ASSEMBLY, FIXED SEATING	0 SF	1094			150	150	150
263	GALLERY	B	ASSEMBLY, FIXED SEATING	0 SF	509			46	46	46
264	GALLERY	B	ASSEMBLY, FIXED SEATING	0 SF	423			46	46	46
265	J/C	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	27	•		1		1
266	GUARDIAN AD LITEM	B	BUSINESS AREAS	100 SF	108	•		2	2	2
270	J/C	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	37	•		1		1
302	OPEN OFFICE/ WAITING	B	BUSINESS AREAS	100 SF	259	•		3	3	3
304	DISTRICT ATTORNEY BEACHHEAD OFFICE	B	BUSINESS AREAS	100 SF	124	•		2	2	2
307	WAITING	B	BUSINESS AREAS	100 SF	263	•		3	6	6
308	PLAY	B	BUSINESS AREAS	100 SF	85	•		1	1	1
309	CORRIDOR	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	1175	•		4		4
310	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	139	•		2	2	2
311	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	150	•		2	2	2
312	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	153	•		2	2	2
313	CHIEF COURT COUNSELOR	B	BUSINESS AREAS	100 SF	236	•		3	3	3
314	ADMIN ASSIST	B	BUSINESS AREAS	100 SF	200	•		2	2	2
315	CONFERENCE	B	BUSINESS AREAS	100 SF	581	•		6	10	10
316	COURT COUNSELOR SUPERVISOR	B	BUSINESS AREAS	100 SF	145	•		2	2	2
317	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	140	•		2	2	2
318	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	145	•		2	2	2
319	INTAKE	B	BUSINESS AREAS	100 SF	121	•		2	2	2
321	JUDGE'S OFFICE	B	BUSINESS AREAS	100 SF	239	•		3	3	3
324	ADMIN ASST.	B	BUSINESS AREAS	100 SF	114	•		2	2	2
325	SUPPLY	B	BUSINESS AREAS	100 SF	55	•		1		1
326	WORK/ COPY/ FILE	B	BUSINESS AREAS	100 SF	72	•		1	1	1
328	COURT COUNSELOR SUPERVISOR	B	BUSINESS AREAS	100 SF	149	•		2	2	2
329	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	141	•		2	2	2
330	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	140	•		2	2	2
331	STORAGE	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	61	•		1		1
332	BREAK	B	BUSINESS AREAS	100 SF	106	•		2	2	2
337	CORRIDOR	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	578	•		2		2
338	OA IV	B	BUSINESS AREAS	100 SF	91	•		1	2	2
339	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	100	•		1	2	2
340	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	137	•		2	2	2
341	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	143	•		2	2	2
342	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	143	•		2	2	2
343	COURT COUNSELOR SUPERVISOR	B	BUSINESS AREAS	100 SF	124	•		2	2	2
345	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	136	•		2	2	2
346	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	143	•		2	2	2
347	COURT COUNSELOR	B	BUSINESS AREAS	100 SF	126	•		2	2	2
348	CONFERENCE	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	166	•		1		1
349	DATA	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	61	•		1		1
350	JAN CLOS	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	69	•		1		1
360	ELEC	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	54	•		1		1
										516

NUMBER OF FLOORS/AREAS: 3

NEW / ALTERATIONS		WATER CLOSETS						LAVATORIES						BATH TUBS/SHOWERS			DRINKING FOUNTAINS			SERVICE SINKS	
		MALE			FEMALE			MALE			FEMALE										
OCCUPANCY	OCC LOAD	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	REQ'D	PROVIDED
B	505	25	2.00	8	25	2.00	14	40	2.00	9	40	2.00	10	0	0.00	0	100	5.05	10	1	3
		50	4.05		50	4.05		80	2.16		80	2.16									
I-3 (detention)	11	15	0.37		15	0.37		15	0.37		15	0.37		15	0.73	1	100	0.11		1	
NEW TOTAL	**516**		**7**	**8**		**7**	**14**		**5**	**9**		**5**	**10**		**1**	**1**		**6**	**10**	**3**	**3**

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DANIEL R. MAGE REGISTERED ARCHITECT 8712 NORTH CAROLINA PROFESSIONAL CHARLOTTE, NC

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.: 571990
DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

OCCUPANCY SCHEDULES

LS2.1

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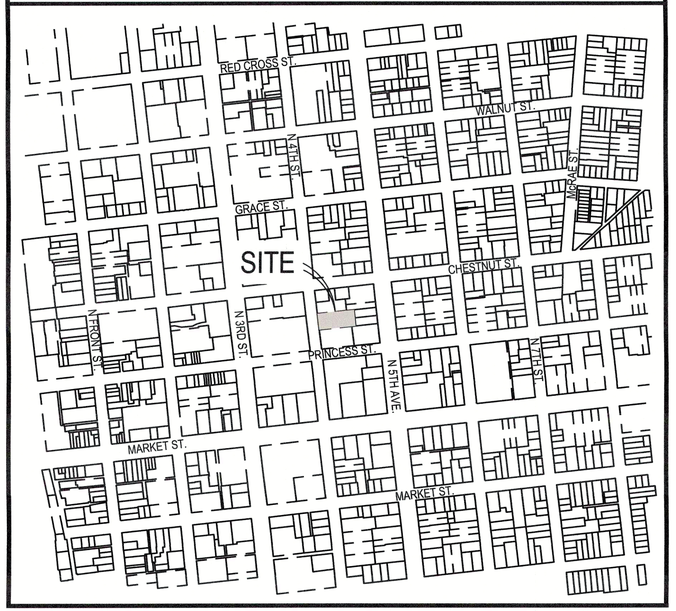
CONSTRUCTION DRAWINGS FOR
NEW HANOVER COUNTY
JUVENILE JUSTICE FACILITY
WR PROJECT NO.: 031807.36

CONSTRUCTION DRAWINGS FOR
NEW HANOVER COUNTY DIVISION OF
JUVENILE JUSTICE FACILITY

138 NORTH 4TH STREET
WILMINGTON, NC

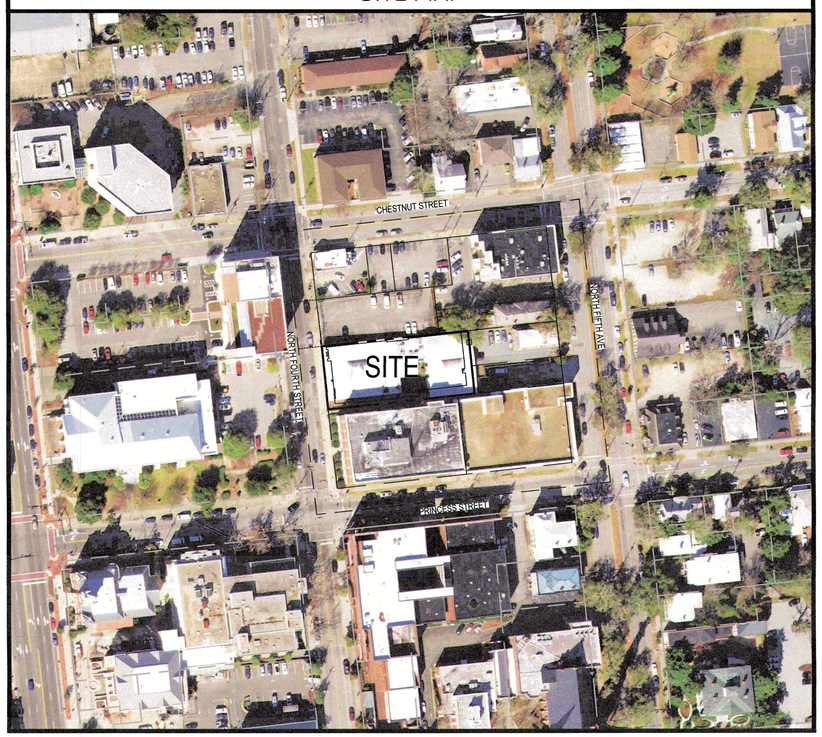
MAY 2019

VICINITY MAP



NOT TO SCALE

SITE MAP



SCALE: 1" = 100'

SHEET LIST TABLE

Sheet Number	Sheet Title
C0.0	COVER
C0.1	PROJECT NOTES
C1.0	EXISTING CONDITIONS
C1.1	DEMOLITION PLAN
C2.0	SITE AND UTILITY PLAN
C3.0	GRADING, DRAINAGE, & EROSION CONTROL PLAN
C4.0	EROSION DETAILS
C4.1	UTILITY DETAILS
C4.2	UTILITY DETAILS
C4.3	STORM DRAINAGE & DRIVEWAY DETAILS
L1.0	LANDSCAPE PLAN
B1.0	BUILDING ELEVATIONS PLAN

LEGEND

LINETYPE DESCRIPTION		LINETYPE DESCRIPTION	
EXISTING WATERLINE	W	PROPOSED UNDERGROUND ELECTRIC	UE
PROPOSED WATERLINE	W	EXISTING GASLINE	G
EXISTING STORM DRAINAGE		PROPOSED GASLINE	G
PROPOSED STORM DRAINAGE		SILT FENCE	SF
EXISTING SANITARY SEWER	SS	TREE PROTECTION & SILT FENCE	SF/TP
PROPOSED SANITARY SEWER	SS	FENCE	XX XX XX XX XX XX
EXISTING FORCE MAIN	FM	TREE PROTECTION	TP
PROPOSED FORCE MAIN	FM	TEMP. DIVERSION SWALE	
EXISTING ELECTRIC (OVERHEAD)	E	RIGHT-OF-WAY	
PROPOSED ELECTRIC (OVERHEAD)	E	EXISTING WETLANDS	
EXISTING UNDERGROUND ELECTRIC	UE	1' CONTOUR	
EXISTING EASEMENT		5' CONTOUR	
PROJECT BOUNDARY		PROPOSED EASEMENT	

Approved Construction Plan

Name Date

Planning _____

Public Utilities _____

Traffic _____

Fire _____

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date:_____ Permit #_____
Signed: _____

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

NORTH CAROLINA PROFESSIONAL SEAL 39113 ENGINEER JOSEPH S. BOYD
5-22-19

PREPARED BY:

WithersRavenel
Engineers | Planners | Surveyors
219 Station Road Suite 101 | Wilmington, NC 28405 | t: 910.256.9277 | license #: C-0832 | ww.withersravenel.com

DEVELOPER/OWNER

NEW HANOVER COUNTY
200 DIVISION DRIVE
WILMINGTON, NC 28401
(910) 798-4338

ATTN: KEVIN CAISON

w:\18\18-0750\180736-new hanover j. courthouse\CAD\const drawings\C0.0 COVER.dwg- Wednesday, May 15, 2019 3:12:04 PM - GARRICH, TOM

COORDINATION NOTES:

1. THE CONTRACTOR IS REQUIRED TO OBTAIN ANY/ALL PERMITS REQUIRED FOR CONSTRUCTION OF THESE PLANS.
2. ALL WORK IS TO BE IN ACCORDANCE WITH THE CITY OF WILMINGTON, CAPE FEAR PUBLIC UTILITY AUTHORITY, NEW HANOVER COUNTY, AND THE STATE OF NORTH CAROLINA.
3. THE CONTRACTOR IS TO ESTABLISH AND CHECK ALL HORIZONTAL AND VERTICAL CONTROLS TO BE USED WITH THE PROJECT. IN ADDITION, THE CONTRACTOR IS TO COMPUTE THE LAYOUT OF THE ENTIRE SITE PLAN IN ADVANCE OF BEGINNING ANY WORK ASSOCIATED WITH THE SUBJECT PLANS. CONTRACTOR SHALL EMPLOY A PROFESSIONAL SURVEYOR TO PERFORM SITE IMPROVEMENT STAKEOUT(S).
4. ANY TIME WORK IS PERFORMED OFF-SITE OR WITHIN AN EXISTING EASEMENT, THE CONTRACTOR IS TO NOTIFY THE HOLDER OF SAID EASEMENT AS TO THE NATURE OF PROPOSED WORK, AND TO FOLLOW ANY GUIDELINES OR STANDARDS WHICH ARE ASSOCIATED WITH OR REFERENCED IN THE RECORDED EASEMENT.
5. THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY OF WILMINGTON INSPECTOR AND NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE MEETING. AT A MINIMUM; THE CONTRACTOR, CITY INSPECTOR, AND ENGINEER SHALL ATTEND THIS MEETING.
6. CONTRACTOR TO COORDINATE WITH TRAFFIC ENGINEERING FOR THE REMOVAL AND STORAGE OF ANY TRAFFIC EQUIPMENT OR SIGNS DURING DEMOLITION, CONSTRUCTION, AND OPENING OF THIS DEVELOPMENT.
7. CONTRACTOR TO COORDINATE WITH CITY OF WILMINGTON ENGINEERING ABOUT THE DETOUR AND CLOSURE PLAN FOR SIDEWALK WHICH WILL BE CLOSED AND OR /PEDESTRIAN REROUTING REQUIRED FOR THE DEMOLITION, CONSTRUCTION OR OPENING OF THIS PROJECT.
8. CONTRACTOR TO COORDINATE WITH THE CITY OF WILMINGTON ABOUT ANY CITY EQUIPMENT REMOVED, RELOCATED, OR DEMOLISHED DURING THE DEMOLITION, CONSTRUCTION AND OPENING OF THIS DEVELOPMENT.
9. CONTRACTOR TO COORDINATE DIRECTLY WITH ENGINEERING TO DETERMINE IF ANY DRIVEWAY PERMITS/REVISIONS/REVIEW PROCESSES ARE REQUIRED. CONTACT SKIPPER FUNDERBURG AT 910-341-5899.
10. CONTRACTOR TO COORDINATE WITH TRAFFIC ENGINEERING AT TRAFFIC PLAN FOR THE CLOSURE OF STREETS, SIDEWALKS, OR DRIVEWAYS AND IMPLEMENTATIONS OF THE VEHICLE AND PEDESTRIAN TRAFFIC PLAN TO BE USED FOR THE DURATION OF THIS PROJECT. THE PLAN MUST INCLUDE LOCATIONS OF SIDEWALKS AND CROSSWALKS THAT WILL BE CLOSED, LOCATION OF CONSTRUCTION FENCING, AND PROTECTION AREAS.
11. A TEMPORARY DETOUR AND CLOSURE PLAN WILL NEED TO BE FILED WITH NHC 911 FOR THE CLOSURE OF ANY PUBLIC STREETS.

GENERAL NOTES:

1. THE BOUNDARY, TOPOGRAPHIC DATA AND TREE SURVEY HAVE BEEN PROVIDED BY WITHERSRAVENEL, INC. THE VERTICAL DATUM FOR THE GROUND SURVEY FOR THIS PROJECT IS NAVD 88. CONTRACTOR TO VERIFY ALL ELEVATIONS IN THE FIELD.
2. THE TREE SURVEY HAS BEEN PROVIDED BY WITHERSRAVENEL, INC. (NC LICENSE NUMBER C-0832).
3. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF ALL EXISTING UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF DITCHING OPERATIONS BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES. IN ORDER TO LOCATE EXISTING UTILITIES IN ADVANCE OF TRENCHING OPERATIONS SO AS TO ELIMINATE OR MINIMIZE DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RESULTING FROM ANY DAMAGE TO THE EXISTING UTILITY LINES INCLUDING LOSS OF UTILITY REVENUES. CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF EXISTING UTILITIES, SUCH AS POLES, CONDUITS, FIBER OPTIC CABLES, TELEPHONE CABLES, WATER LINES, ETC.
4. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC.
5. CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAGMEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "CONSTRUCTION AND MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE DOT.
6. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.
7. ALL WORK BY THE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE OWNER ACCEPTS THE WORK.
8. CONTRACTOR SHALL CALL THE NORTH CAROLINA ONE-CALL CENTER AT 1 (800) 632-4949 AND ALLOW THE CENTER TO LOCATE EXISTING UTILITIES BEFORE DIGGING.
9. CONTRACTOR SHALL REMOVE ASPHALT, AGGREGATE BASE COURSE, AND CONCRETE CURB & GUTTER WITHIN LIMITS OF DEMOLITION AS SHOWN ON PLAN.
10. THIS PROPERTY IS NOT WITHIN ANY FLOOD HAZARD AREA AS EVIDENCED ON N.C. FLOOD MAP 3720311700L.

DEMOLITION NOTES:

1. CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.
2. CONTRACTOR IS TO WALK THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF DEMOLITION REQUIRED. ALL DEMOLITION WORK REQUIRED TO CONSTRUCT NEW SITE IMPROVEMENTS WILL BE PERFORMED BY THE CONTRACTOR AND WILL BE UNCLASSIFIED EXCAVATION.
3. DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE DISPOSAL OF CONCRETE PADS, CONCRETE DITCHES, FOUNDATIONS, SLABS, STEPS, AND STRUCTURES; ABANDONED UTILITIES, BUILDINGS, PAVEMENTS AND ALL MATERIALS CLEARED AND STRIPPED TO THE EXTENT NECESSARY AS DIRECTED BY THE SOILS ENGINEER FOR THE INSTALLATION OF THE NEW IMPROVEMENTS AND WITHIN THE LIMITS OF CLEARING AND GRADING AND AS SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT TO BE DEMOLISHED. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO OWNER.
5. ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND STORM SEWER UTILITIES THAT SERVICE OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR.
6. EXISTING UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION.
7. ALL EXISTING IMPROVEMENTS INDICATED OR REQUIRED TO BE DEMOLISHED SHALL INCLUDE REMOVAL FROM THE PROPERTY AND PROPER DISPOSAL.
8. CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING OVER HEAD AND UNDERGROUND UTILITIES INCLUDING CABLE, GAS, TELEPHONE AND ELECTRIC AND ANY OTHER UTILITIES THROUGH THE SITE WITH THE RESPECTIVE COMPANIES.
9. PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS AND SIDEWALKS TO BE DEMOLISHED.
10. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS OSHA REGULATIONS.
11. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS OF THE MAINS BY DIGGING TEST PITS BY HAND.

GRADING NOTES:

1. TREE PRESERVATION / REMOVAL PERMIT IS REQUIRED PRIOR TO CLEARING AND LAND DISTURBANCE.
2. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED.
3. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.

EROSION AND SEDIMENT CONTROL NOTES

EROSION CONTROL AND SEQUENCE OF CONSTRUCTION NOTES:

1. INSTALL SILT FENCE AND TREE PROTECTION FENCING AS SHOWN ON THE PLANS.
2. CLEAR AND REMOVE FROM SITE ALL NOTED STRUCTURES, TREES, ROOTS, ROOT MAT, ETC. FROM THE AREA WITHIN DESIGNATED CLEARING LIMITS.
3. INSTALL STORM DRAIN PIPING SYSTEM. CONNECT SYSTEM TO EXISTING PIPING.
4. INSTALL NOTED EROSION CONTROL DEVICES.
5. PLANT GRASS OVER ALL GRADED AREAS AS NOTED IN STABILIZATION NOTES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND RESTORING TO PRE-CONSTRUCTION CONDITIONS ANY AREAS OUTSIDE THE PROJECT LIMITS THAT MAY INADVERTENTLY BE DAMAGED DUE TO THE FAILURE OF THE EROSION MEASURES
7. DURING GRADING AND AFTER GRADING HAS BEEN COMPLETED, CONTRACTOR SHALL CONTINUE TO MAINTAIN PERMANENT AND TEMPORARY EROSION CONTROL MEASURES UNTIL FINAL INSPECTION AND APPROVAL BY THE NEW HANOVER COUNTY ENGINEERING DEPARTMENT.
8. WATER, FERTILIZE, MOW AND MAINTAIN SPRIGGED, SODDED AND PLANTED AREAS UNTIL FINAL APPROVAL BY NEW HANOVER COUNTY.
9. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
3. SEDIMENT WILL BE REMOVED BEHIND THE SEDIMENT FENCE WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. SILT FENCE STAKES WILL BE SPACED 6 FEET APART UNLESS A WIRE BACKING IS USED WITH 8 FOOT STAKE SPACING.
4. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.

STABILIZATION NOTES

1. SLOPES LEFT EXPOSED WILL, WITHIN 21 CALENDAR DAYS OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, DEVICES, OR STRUCTURES TO RESTRAIN EROSION.
2. ALL OTHER DISTURBED AREAS SHALL BE PLANTED OR OTHERWISE PROVIDED PERMANENT GROUND COVER WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT WHICHEVER PERIOD IS SHORTER.

BUILDING WASTES HANDLING

1. NO PART OR LIQUID WASTES IN STREAM OR STORM DRAINS.
2. DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.
3. EARTHEN-MATERIALS STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.
4. CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS.

INSPECTIONS

1. SAME WEEKLY INSPECTION REQUIREMENTS.
2. SAME RAIN GAUGE & INSPECTIONS AFTER 0.5" RAIN EVENT.
3. INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS".
4. INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED.
5. RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST.
6. ELECTRONICALLY AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN CONDITIONS.

SEDIMENT BASINS

1. OUTLET STRUCTURES MUST WITHDRAW FROM BASIN SURFACE UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE.
2. USE ONLY DWQ-APPROVED FLOCCULENTS.

NPDES-SPECIFIC PLAN SHEETS NOTES

1. THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000.
2. THIS PAGE CAN BE APPROVED BY THE COUNTY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE ELUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
4. THE COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT NOT PART OF THE APPROVED PLANS FOR THE PURPOSED OF ENFORCEMENT ACTION UNDER THE COUNTY CODE.

PERMANENT SEEDING SCHEDULE - MIXTURE 5CP

Seeding Mixture

SPECIES	RATE (LB/ACRE)
CENTIPEDE GRASS	10-20

Seeding Dates
MARCH - JUNE

Soil Amendments
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 300 LB/ACRE 10-10-1- FERTILIZER.

Mulch
DO NOT MULCH.

Maintenance
FERTILIZE VERY SPARINGLY LB/ACRE NITROGEN IN SPRING WITH NO PHOSPHORUS. CENTIPEDE GRASS CANNOT TOLERATE HIGH PH OR EXCESS FERTILIZER.

TEMPORARY SEEDING-LATE WINTER/EARLY SPRING

WINTER AND EARLY SPRING

SPECIES	RATE (LB/ACRE)
Rye (GRAIN)	120
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS)	50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SUMMER

SPECIES	RATE (LB/ACRE)
GERMAN MILLET	40

FALL

SPECIES	RATE (LB/ACRE)
RYE (GRAIN)	120

Seeding dates
COASTAL PLAIN - DEC.1-APR. 15 - LATE WINTER AND EARLY SPRING
APRIL 15 - AUG. 15 - SUMMER
AUG. 15 - DEC. 30 - FALL

Soil amendments
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

Mulch
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

Maintenance
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

GROUND STABILIZATION

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES FLATTER THAN 3:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable. (Section 11.B(2)(b))

FIRE & LIFE SAFETY NOTES:

1. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT (3') CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
2. HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB.
3. A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES.
4. NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO CONSTRUCTION OF THE BUILDING(S).
5. CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
6. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADWAYS ALLOWS PASSAGE BY VEHICLES.
7. HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
8. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
9. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
10. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0696.
11. ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK WITH YOUR FIRE SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR TAMPER SWITCH.
12. DUE TO SIZE OF THE BUILDING AND TYPE OF CONSTRUCTION, AN 800 MHZ RADIO SIGNAL STRENGTH SITE TEST MAY NEED TO BE PERFORMED TO DETERMINE IF A RADIO AMPLIFIER IS NEEDED.

SITE NOTES

1. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND R.O.W.'S PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
3. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
4. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.
5. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
6. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
7. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
8. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
9. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE GIVEN TO THE OWNER FOR REVIEW, NO DEPARTURES FROM THE CONTRACT DOCUMENT SHALL BE MADE WITHOUT THE PERMISSION OF THE OWNER.
10. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COST LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE OTHER OBSTRUCTIONS OR FROM DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. CONTACT NORTH CAROLINA ONE CALL" TOLL FREE 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NONSUBSCRIBING UTILITIES.
11. ALL PERMITS RELATIVE TO PROJECT MUST BE OBTAINED, PRIOR TO CONSTRUCTION
12. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY, AND LOCAL CODES.
13. FOR BUILDING DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.
14. ALL DIMENSIONS AND RADII ARE TO OUTSIDE FACE OF BUILDING OR TO FACE OF CURB UNLESS OTHERWISE NOTED.
15. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
16. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.

TRAFFIC NOTES:

1. ALL PAVEMENT MARKINGS IN PUBLIC RIGHT-OF-WAYS AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. [DETAIL SD-13 CofW TECH STDS]
2. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. [DETAIL SD 15-13 CofW TECH STDS]
3. STREET NAME SIGNS FOR PUBLIC AND PRIVATE STREETS MUST BE ERECTED BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED. CONTACT TRAFFIC ENGINEERING AT 910-341-7888 FOR INFORMATION ABOUT STREET SIGNS FOR THIS PROJECT.
4. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
5. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
6. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
7. CONTACT TRAFFIC ENGINEERING AT A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
8. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS. THE LANDSCAPING PLAN WILL BE NEED TO DETERMINE STREET LIGHT LOCATIONS.
9. TACTILE WARNING MATS TO BE INSTALLED AT ALL WHEELCHAIR RAMPS.
10. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT IN A CITY STREET. NOTE THIS ON THE PLAN AND CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
11. IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. THE SUBDIVIDER MAY ACQUIRE AND ERECT OFFICIAL STREET NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE SUDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTRACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
12. ONCE STREETS ARE READY TO BE OPEN TO PUBLIC TRAFFIC, CONTACT THE TRAFFIC ENGINEERING DIVISION TO REQUEST INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
13. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WITH BE REPLACED.
14. A LANDSCAPING PLAN, INDICATING THE LOCATION OR REQUIRED STREET TREES SHALL BE SUBMITTED TO THE TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT. PLAN SHALL ADHERE TO SD 15-14.
15. PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT OF WAY.
16. INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.

EXISTING UTILITY NOTES:

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE ACTUAL LOCATION AND AVAILABILITY OF ALL EXISTING AND PROPOSED UTILITIES IN THE FIELD PRIOR TO GROUND BREAKING.
2. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.

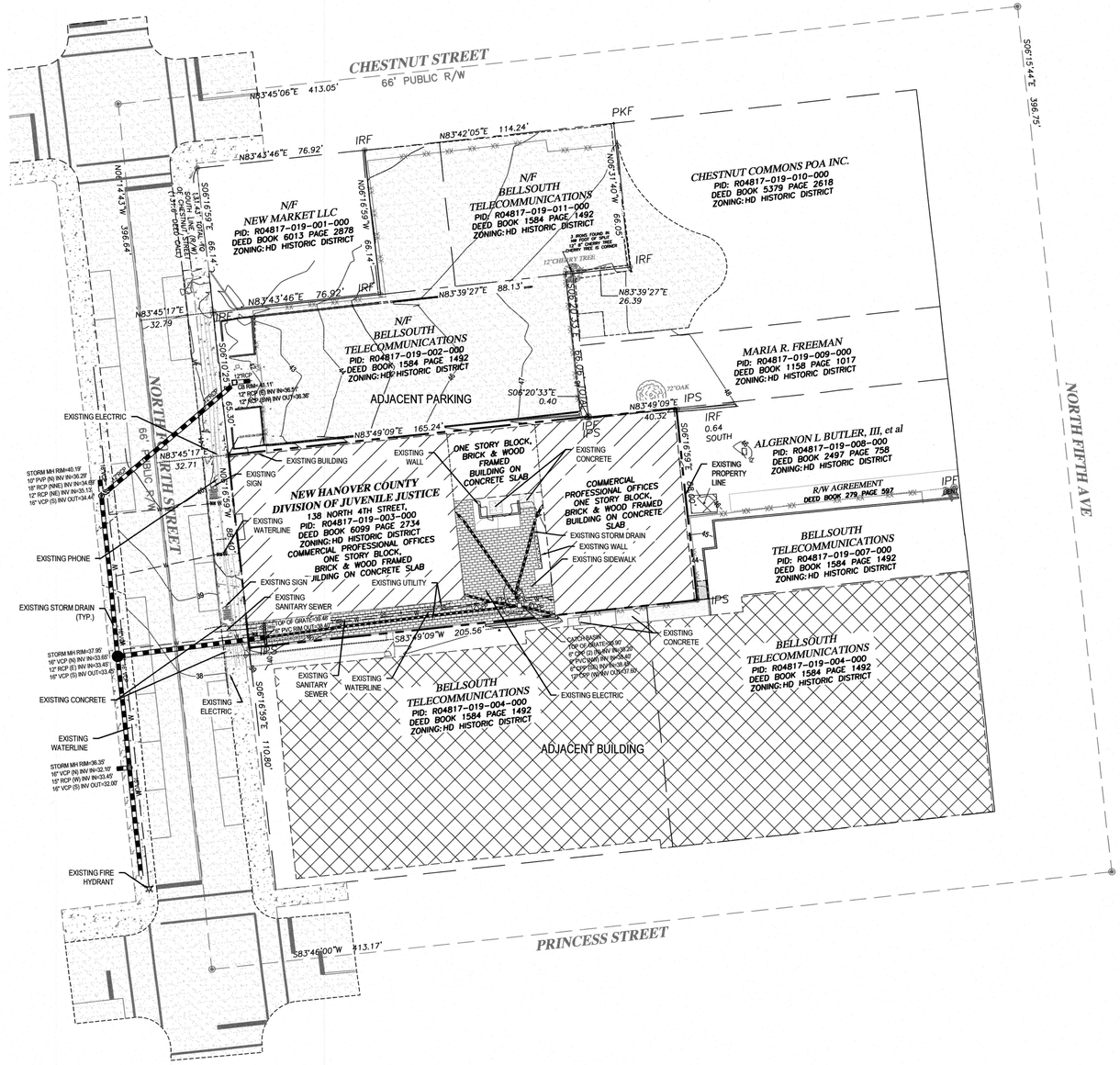
NOTICE REQUIRED:

ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED BY CONTRACT PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF SAID UTILITIES.

CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO ANY EXCAVATION OR DEMOLITION.

UTILITY NOTES:

1. EXISTING WATER AND SANITARY SEWER SERVICES ARE CURRENTLY AVAILABLE TO THE SITE FROM PUBLIC SYSTEMS. WATER SERVICE AND SANITARY SEWER SERVICE WILL BE PROVIDED BY CAPE FEAR PUBLIC UTILITY AUTHORITY.
2. ALL UTILITY SERVICES, SUCH AS ELECTRIC POWER, CATV, GAS, AND TELEPHONE SHALL BE INSTALLED UNDERGROUND.
3. ALL WATER & SEWER UTILITIES TO BE INSTALLED PER CFPUA TECHNICAL SPECIFICATIONS & STANDARDS.
4. PROJECT SHALL COMPLY WITH CAPE FEAR PUBLIC UTILITY AUTHORITY CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND N.C.D.E.N.R. HAS ISSUED THEIR "FINAL APPROVAL". CALL 332-6560 FOR INFORMATION.
5. ALL COMMERCIAL WATER SERVICES AND ANY IRRIGATION SYSTEMS SUPPLIED BY C.F.P.U.A. WATER SHALL HAVE A BACKFLOW PREVENTION DEVICE ACCEPTABLE TO THE CITY AND APPROVED BY USCFCCCHR OR ASSE. CALL 332-6560 FOR INFORMATION.
6. WATER AND SEWER SERVICES CAN NOT BE ACTIVATED ON NEW MAINS UNTIL THE ENGINEER'S CERTIFICATION AND AS-BUILTS ARE RECEIVED AND "FINAL APPROVAL" ISSUED BY THE PUBLIC WATER SUPPLY SECTION OF NCDENR, AND "FINAL ENGINEERING CERTIFICATION" ISSUED BY DIVISION OF WATER QUALITY SECTION OF N.C.D.E.N.R.
7. IF CONTRACTOR DESIRES WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
8. WHEN PVC WATER MAINS AND SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED



SYMBOL LEGEND:

- EIP / EIR: EXISTING IRON *PIPE / *ROD
- RBS: REBAR SET
- STONE MONUMENT
- DROP / YARD INLET
- NCGS: NCGS MONUMENT
- POWER POLE
- MB: MAIL BOX
- 25.7: GROUND SHOT ELEVATION
- SIGN

LINETYPE LEGEND:

- SURVEYED LINES (BOUNDARY)
- DRAINAGE EASEMENT LINE
- LINES NOT SURVEYED (ADJOINERS)
- RIGHT-OF-WAY (NOT SURVEYED)
- TOP OF SLOPE
- BOTTOM OF SLOPE
- BREAK LINE
- FENCE
- STORM PIPE
- MINOR CONTOUR WITH ELEVATION
- MAJOR CONTOUR WITH ELEVATION
- GRAVEL

ABBREVIATIONS:

EIP	EXISTING IRON PIPE	DI	DROP INLET
EIR	EXISTING IRON ROD	MB	MAP BOOK / CABINET
RBS	REBAR SET	DB	DEED BOOK
INV:	INVERT	PG	PAGE
RCP	REINFORCED CONCRETE PIPE	EL:	ELEVATION

Approved Construction Plan

Name Date

Planning _____

Public Utilities _____

Traffic _____

Fire _____

CITY OF WILMINGTON NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date:_____ Permit #_____

Signed: _____

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

GRAPHIC SCALE

30 0 15 30 60

1 inch = 30 ft.

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NEW HANOVER COUNTY
DIVISION OF JUVENILE JUSTICE FACILITY
138 NORTH 4TH STREET
WILMINGTON, NC

EXISTING CONDITIONS

Job No.	03180736	Drawn By	TG
Date	1126.18	Designer	JSB

NORTH CAROLINA PROFESSIONAL SEAL 39113 ENGINEER JOSEPH S. BOYD 5-22-19

Revisions

Sheet No.

C1.0

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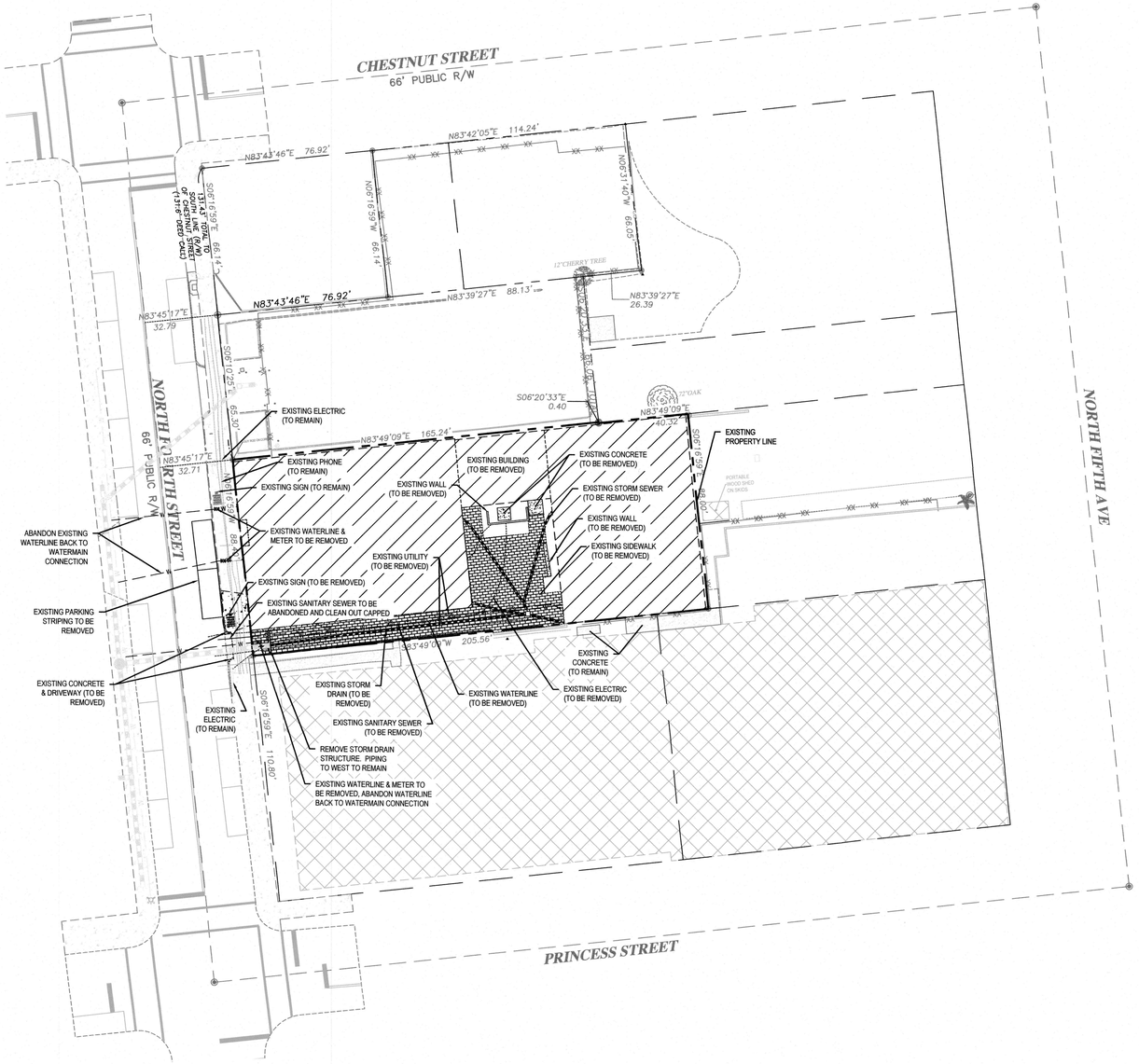

NOTES:

1. CONTRACTOR TO PROTECT THE EXISTING UTILITIES THAT ARE TO REMAIN.
2. CONTRACTOR IS REQUIRED TO OBTAIN DEMOLITION PERMITS FROM THE CITY/COUNTY.
3. ANY HISTORIC BRICK REMOVED FOR CONSTRUCTION SHALL BE SAVED AND TURNED OVER TO THE CITY OF WILMINGTON.
4. THERE ARE NO EXISTING TREES ONSITE THAT ARE PROPOSED TO BE REMOVED.

Approved Construction Plan

	Name	Date
Planning		
Public Utilities		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date:_____ Permit #_____
Signed: _____

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GRAPHIC SCALE
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1 inch = 30 ft.

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NEW HANOVER COUNTY
DIVISION OF JUVENILE
JUSTICE FACILITY
138 NORTH 4TH STREET
WILMINGTON, NC

DEMOLITION PLAN

Job No.	03180736	Drawn By	TG
Date	1126.18	Designer	JSB

NORTH CAROLINA PROFESSIONAL SEAL 39413 ENGINEER JOSEPH S. BOYD
5-22-19

Revisions

Sheet No.
C1.1

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SITE DEVELOPMENT DATA

GENERAL NOTES:

OWNER: NEW HANOVER COUNTY
ADDRESS: 200 DIVISION DRIVE
WILMINGTON, NC 28401
PHONE: (910) 798-4338
ATTN: KEVIN CAISON

NEW HANOVER COUNTY PARCEL NO.:
311708.99.0048.000
PID: R04817-019-003-000

SITE ADDRESS: 138 NORTH FORTH STREET

TOTAL TRACT AREA: 0.42 AC.±

ZONING DISTRICT: HISTORIC DISTRICT (HD)

SETBACKS:

MINIMUM SETBACKS -	PROPOSED SETBACKS -
0' FRONT	6' FRONT
0' CORNER	1.5' NORTH SIDE
0' REAR	5' SOUTH SIDE
0' INTERIOR SIDE	9.8' REAR

CAMA LAND CLASSIFICATION: URBAN

DEVELOPMENT DATA:

TOTAL TRACT AREA: 0.42 AC +/-

TOTAL BUILDING GFA: 38,455 SF +/-

BUILDING CONSTRUCTION TYPE: V-A

TOTAL BUILDING COVERAGE: 14,600 SF +/- (79.8%)

TOTAL GROSS FLOOR AREA:	38,455 SF +/-
1ST FLOOR -	14,511 SF +/-
2ND FLOOR -	12,619 SF +/-
3RD FLOOR -	11,325 SF +/-

PROPOSED BUILDING HEIGHT:
3-STORY - 61'

PARKING (FROM DATA PROVIDED BY NEW HANOVER COUNTY):

EXISTING USE, SPACES USED -	29
ADDITIONAL SPACES NEED PER PROPOSED USE -	20
TOTAL PARKING NEEDED -	49

EXISTING PARKING: 0 SPACES

PROVIDED PARKING: 0 SPACES
NOTE: PROJECT IS WITHIN 1,320 FEET OF GOVERNMENT OWNED PARKING FACILITIES AND THEREFORE EXEMPT FROM OFF-STREET PARKING REQUIREMENTS.

BICYCLE PARKING
MIN SPACES REQUIRED: 0
SPACES PROVIDED: 5

EXISTING ONSITE IMPERVIOUS COVERAGE: 17,360 SF
EXISTING ONSITE IMPERVIOUS COVERAGE TO REMAIN: 0.00 SF

PROPOSED ONSITE IMPERVIOUS COVERAGE:

ROOFTOPS -	14,600 SF +/-
DRIVEWAY -	150 SF +/-
SIDEWALKS -	2,050 SF +/-
TOTAL -	16,800 SF (91.8%)

EXISTING OFFSITE IMPERVIOUS TO BE REMOVED: 168 SF
PROPOSED OFFSITE IMPERVIOUS COVERAGE: 168 SF
NET ADDED OFFSITE IMPERVIOUS AREA: 0 SF

PROJECTED WATER AND SEWER DEMAND: 12,000 GPD

SOLID WASTE DISPOSAL IS VIA SHARED DUMPSTER ACROSS STREET AT 320 CHESTNUT STREET & THALIAN HALL .

DEVELOPMENT NOTES:

1. ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE.
2. PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE, CITY & NEW HANOVER COUNTY REGULATIONS.
3. ACCESS TO AND FROM PROPERTY IS TO BE VIA A CONTROLLED ACCESS. DURING ENTRY THE COUNTY SHERIFF DEPARTMENT IS TO SHUT DOWN 4TH STREET.
4. ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30"-10'. [SEC. 18-556 CofW LDC] [SEC. 18-812 CofW LDC]
5. THERE IS NO PHASING OF THIS PROJECT ANTICIPATED. PROJECT IS EXPECTED TO TAKE 18 MONTHS FROM START OF CONSTRUCTION.

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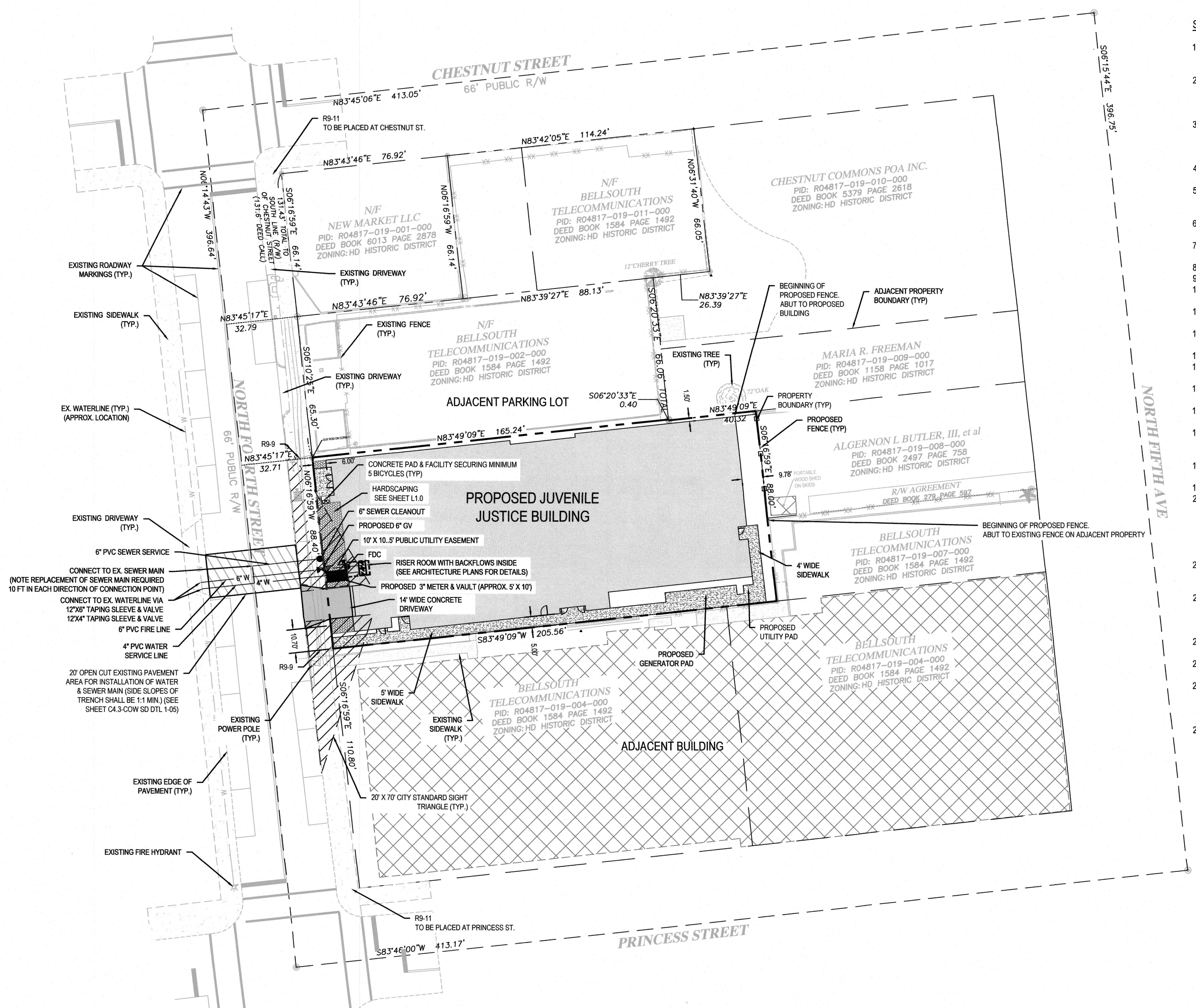
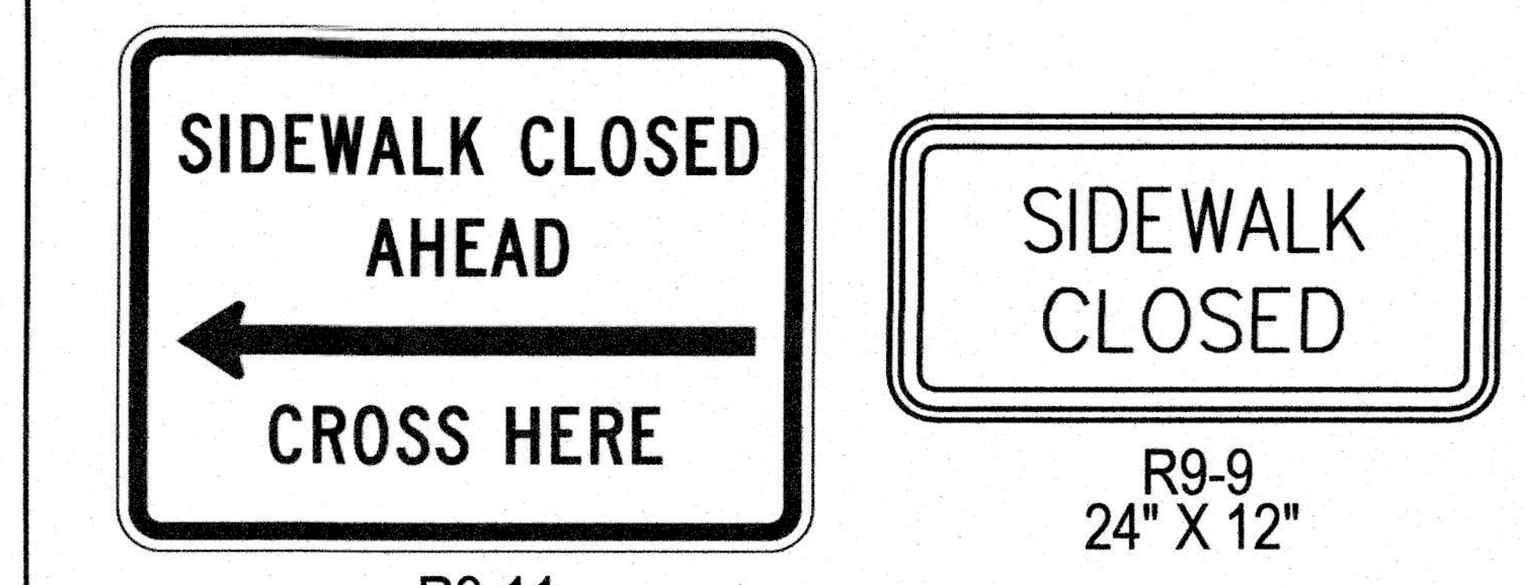


TEMPORARY SIGNS DURING CONSTRUCTION LEGEND:



R9-11
48" X 36"

R9-9
24" X 12"

SPECIAL USE PERMIT AND HISTORIC PRESERVATION COMMISSION APPROVED CONDITIONS:

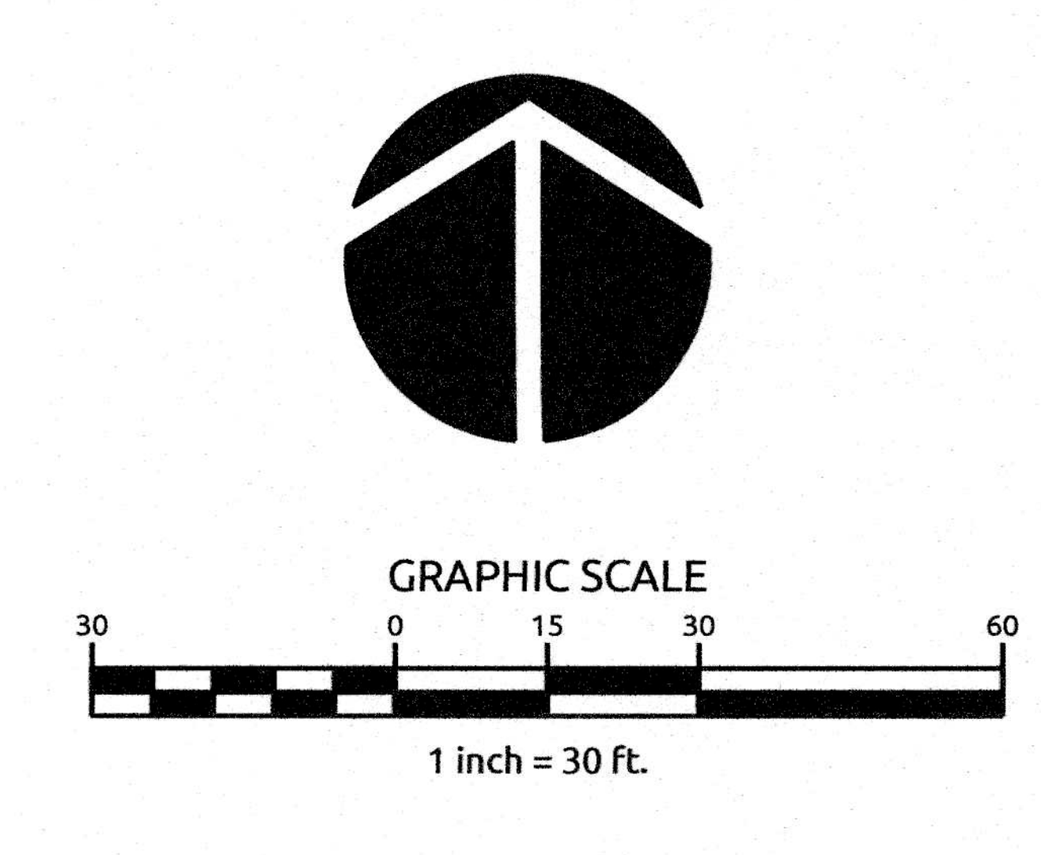
1. THE PROPERTY SHALL BE SUBJECT TO ALL OF THE SPECIFIC REQUIREMENTS STATED IN THE LAND DEVELOPMENT CODE FOR THE PROPOSED USE AS WELL AS ANY ADDITIONAL CONDITIONS STATED BELOW.
2. THE USE AND DEVELOPMENT OF THE PROPERTY SHALL COMPLY WITH ALL OTHER SUPPLEMENTAL REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE OR ANY OTHER APPLICABLE FEDERAL, STATE OR LOCAL LAW, ORDINANCE OR REGULATION. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT OR HIGHER STANDARD SHALL APPLY.
3. IF, FOR ANY REASON, ANY CONDITION FOR APPROVAL IS FOUND TO BE ILLEGAL OR INVALID OR IF THE APPLICANT SHOULD FAIL TO ACCEPT ANY CONDITION FOLLOWING APPROVAL, THE APPROVAL OF THE SITE PLAN FOR THE DISTRICT SHALL BE NULL AND VOID AND OF NO EFFECT AND PROCEEDINGS SHALL BE INSTITUTED TO REZONE THE PROPERTY TO ITS PREVIOUS ZONING CLASSIFICATION.
4. THE USE AND DEVELOPMENT OF THE PROPERTY SHALL BE IN ACCORDANCE WITH THE PLANS AND ELEVATIONS AS SUBMITTED AND APPROVED.
5. APPROVAL OF THIS SPECIAL USE PERMIT DOES NOT CONSTITUTE TECHNICAL APPROVAL OF THE SITE PLAN. ALL TECHNICAL REVIEW COMMITTEE COMMENTS SHALL BE FOLLOWED PRIOR TO ISSUANCE OF A CONSTRUCTION RELEASE OR FINAL ZONING APPROVAL.
6. ALL GLAZING ON THE GROUND FLOOR ALONG NORTH 4TH STREET SHALL BE CLEAR AND NOT TINTED, EXCLUDING THE SALLY PORT GARAGE DOORS.
7. TO PROMOTE THE URBAN CANOPY ON NORTH 4TH STREET, TWO STREET TREES SHALL BE ADDED WITHIN THE RIGHT-OF-WAY ALONG THE FRONTAGE OF THE PROPOSED BUILDING.
8. THE INSTALLATION OF BIKE RACKS SHALL BE REQUIRED AS PART OF THE PROJECT.
9. ALL CITY, STATE AND FEDERAL REGULATIONS SHALL BE MET.
10. ALL HVAC AND MECHANICAL EQUIPMENT SHALL BE LOCATED ON THE ROOF OR IN AN INCONSPICUOUS LOCATION AND SCREENED FROM PUBLIC VIEW.
11. THE HISTORIC PRESERVATION PLANNER SHALL REVIEW AND APPROVE THE DESIGN OF ANY SCREENING USED ON THE PROPERTY.
12. THE HISTORIC PRESERVATION PLANNER SHALL REVIEW AND APPROVE ALL EXTERIOR LIGHTING FOR THE BUILDING AND GROUNDS.
13. THE HISTORIC PRESERVATION PLANNER SHALL REVIEW AND APPROVE ALL SIGNAGE ON THE BUILDING.
14. ANY PROPOSED LANDSCAPING SHALL BE REVIEWED AND APPROVED BY THE CITY'S HISTORIC PRESERVATION PLANNER IN CONSULTATION WITH THE CITY ARBORIST PRIOR TO INSTALLATION.
15. THE CITY ARBORIST SHALL REVIEW AND APPROVE THE REMOVAL OR TRIMMING OF ANY TREES FOR THE PROJECT.
16. ANY GRANITE CURBING ALONG NORTH 4TH STREET SHALL BE RESTORED ALONG THE ENTIRE LENGTH OF THE PROPERTY.
17. HISTORIC PAVING MATERIALS LOCATED IN THE 100 BLOCK RIGHT-OF-WAY OF NORTH 4TH STREET, ADJACENT TO THE SITE SHALL BE INVENTORIED, WITH DISPOSITION OF SAID MATERIAL TO BE IN COMPLIANCE WITH THE CITY OF WILMINGTON'S BRICK STREETS POLICY.
18. ANY BROKEN SIDEWALK PANELS SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE WILMINGTON TECHNICAL STANDARD AND SPECIFICATION MANUAL.
19. ALL TECHNICAL REVIEW COMMITTEE REQUIREMENTS SHALL BE IN FULL COMPLIANCE.
20. AN INVESTIGATION USING PROFESSIONAL ARCHAEOLOGISTS AND CONTEMPORARY METHODS SHALL BE UNDERTAKEN DURING EXCAVATION WORK FOR THE NEW BUILDING. IF AT ALL POSSIBLE, ARCHAEOLOGICAL MATERIALS SHALL REMAIN IN PLACE. IF IT IS NOT POSSIBLE TO PRESERVE ARCHAEOLOGICAL MATERIALS IN PLACE, THE HISTORIC PRESERVATION PLANNER SHALL REVIEW FINDINGS AND APPROVE REMOVAL. NO REMOVAL OF ARCHAEOLOGICAL MATERIALS CAN OCCUR WITHOUT APPROVAL FROM THE HISTORIC PRESERVATION PLANNER.
21. THE PROPERTY OWNER SHALL PROVIDE THE HISTORIC PRESERVATION PLANNER UNRESTRICTED ACCESS TO THE SITE DURING EXCAVATION ACTIVITIES. THE HISTORIC PRESERVATION PLANNER SHALL NOTIFY THE PROPERTY OWNER WHEN SHE IS ON THE PROPERTY.
22. A REPORT OF THE ARCHAEOLOGICAL INVESTIGATION SHALL BE PREPARED FOR REVIEW BY THE HISTORIC PRESERVATION PLANNER AND A COPY PROVIDED TO THE PLANNER FOR PLACEMENT IN THE HISTORIC FILES OF THE PROPERTY MAINTAINED BY THE CITY OF WILMINGTON PLANNING DEPARTMENT.
23. SIGNIFICANT ARCHAEOLOGICAL MATERIALS SHOULD BE DONATED TO THE NEW HANOVER COUNTY CAPE FEAR MUSEUM.
24. THE PROJECT REVIEWED AS A PART OF THIS APPLICATION SHALL COMPLY WITH ALL CONDITIONS ORDERED BY THE HISTORIC PRESERVATION COMMISSION.
25. ALL CONSTRUCTION SHALL COMPLY WITH ALL REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE AND ANY OTHER APPLICABLE FEDERAL, STATE OR LOCAL LAW, ORDINANCE OR REGULATION, INCLUDING THE NORTH CAROLINA BUILDING CODE. ALL REQUIRED PERMITS SHALL BE OBTAINED.
26. CHANGES TO THE PROJECT FROM THAT DESCRIBED IN THE APPLICATION AND SUBMITTALS THAT ARE AS THE RESULT OF COMPLIANCE WITH THE NC STATE BUILDING CODE, LAND DEVELOPMENT CODE, OR OTHER APPLICABLE REGULATORY PROVISIONS, SHALL BE REVIEWED BY THE HISTORIC PRESERVATION COMMISSION,OR IF MINOR IN NATURE AS SPECIFIED IN THE WILMINGTON DESIGN GUIDELINES, BY COMMISSION STAFF THROUGH THE ADMINISTRATIVE BYPASS PROCESS.

Approved Construction Plan

	Name	Date
Planning		
Public Utilities		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date:__________ Permit #______________
Signed: ______________________________

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.



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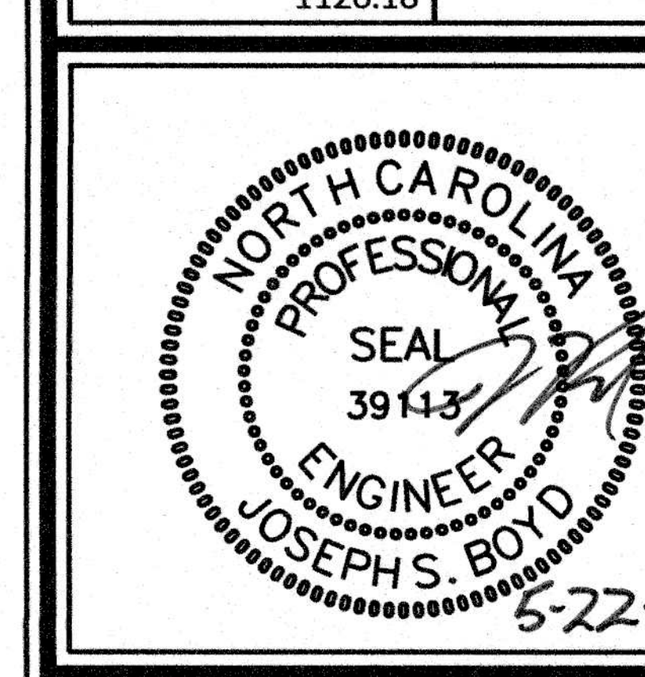
NEW HANOVER COUNTY
DIVISION OF JUVENILE
JUSTICE FACILITY
138 NORTH 4TH STREET
WILMINGTON, NC

SITE AND UTILITY PLAN

Job No. 03180736	Drawn By TG
Date 1126.18	Designer JSB



Revisions

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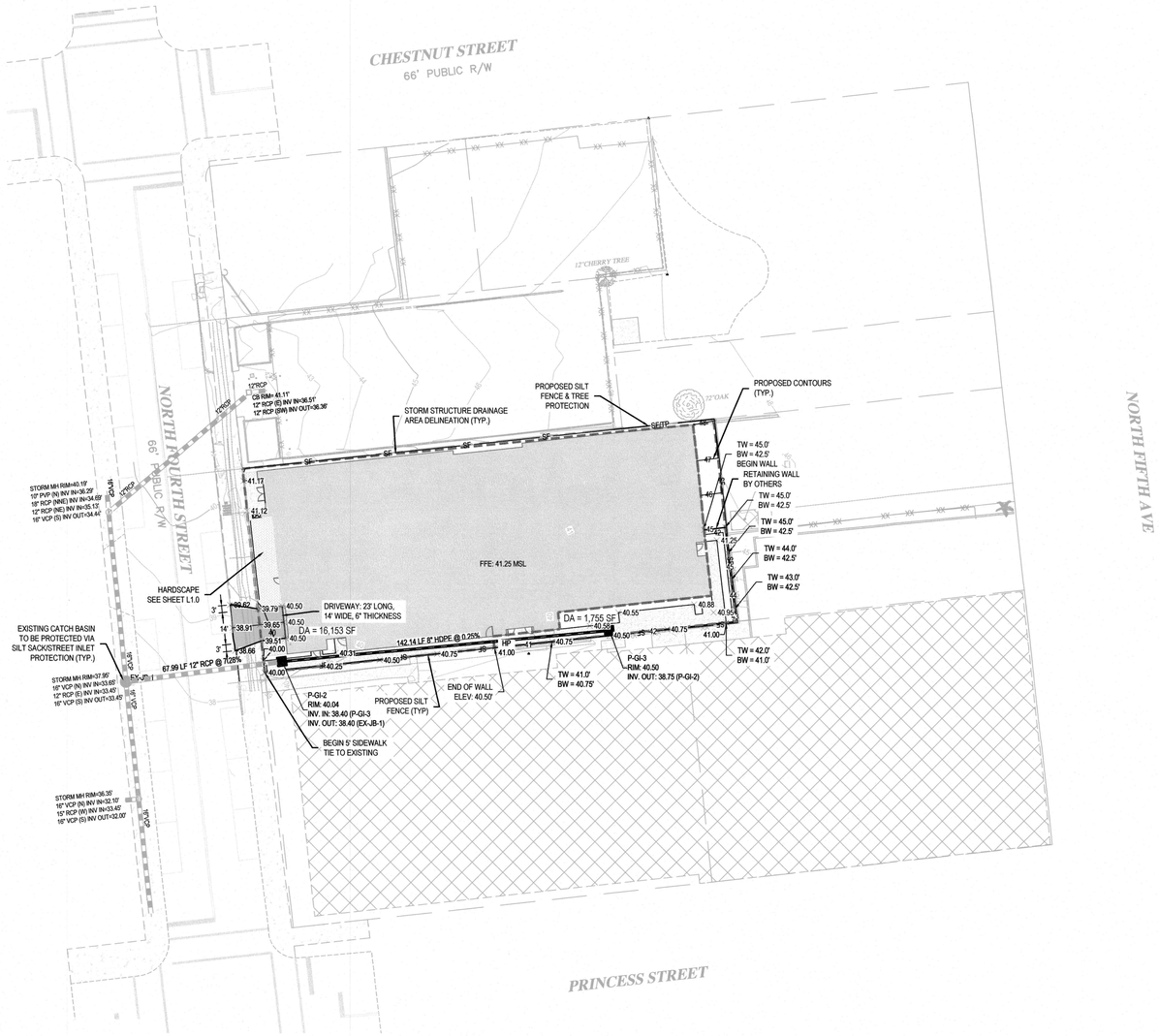

DRAINAGE NOTE:

1. ALL ROOF RUNOFF SHALL BE TIED TO THE PROPOSED INLET GRATE P-GI-2.

Approved Construction Plan

	Name	Date
Planning		
Public Utilities		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date:_____ Permit #_____

Signed: _____

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GRAPHIC SCALE

30 0 15 30 60

1 inch = 30 ft.

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NEW HANOVER COUNTY
DIVISION OF JUVENILE
JUSTICE FACILITY
138 NORTH 4TH STREET
WILMINGTON, NC

GRADING, DRAINAGE, & EROSION CONTROL PLAN

Job No.	03180736	Drawn By	TG
Date	1126.18	Designer	JSB

NORTH CAROLINA PROFESSIONAL SEAL 39173 ENGINEER JOSEPH S. BOYD 5-22-19

Revisions

Sheet No.
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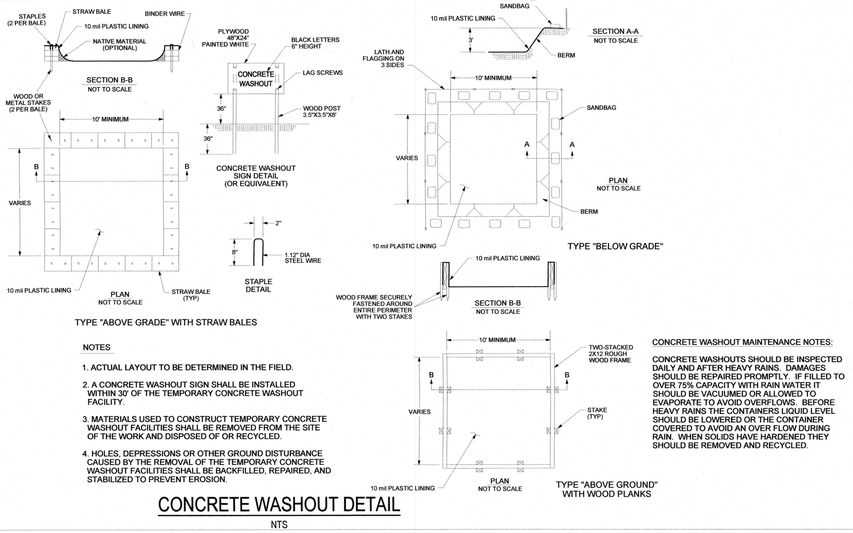


NOTES

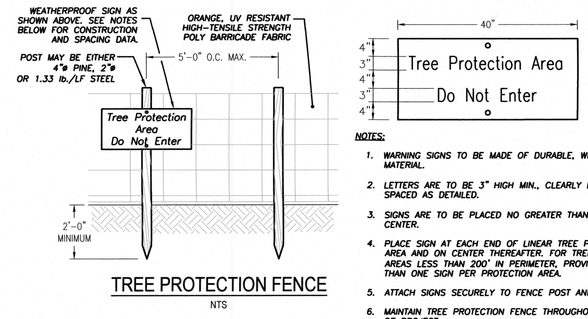
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

CONCRETE WASHOUT MAINTENANCE NOTES:

CONCRETE WASHOUTS SHOULD BE INSPECTED DAILY AND AFTER HEAVY RAINS. DAMAGES SHOULD BE REPAIRED PROMPTLY. IF FILLED TO OVER 75% CAPACITY WITH RAIN WATER IT SHOULD BE VACUUMED OR ALLOWED TO EVAPORATE TO AVOID OVERFLOWS. BEFORE HEAVY RAINS THE CONTAINERS LIQUID LEVEL SHOULD BE LOWERED OR THE CONTAINER COVERED TO AVOID AN OVER FLOW DURING RAIN. WHEN SOLIDS HAVE HARDENED THEY SHOULD BE REMOVED AND RECYCLED.

CONCRETE WASHOUT DETAIL

NTS



TREE PROTECTION FENCE

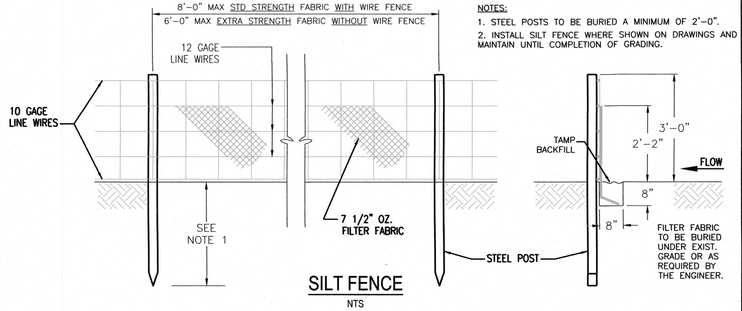
NTS

NOTES:

1. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
2. LETTERS ARE TO BE 3" HIGH MIN., CLEARLY LEGIBLE AND SPACED AS DETAILED.
3. SIGNS ARE TO BE PLACED NO GREATER THAN 200' ON CENTER.
4. PLACE SIGN AT EACH END OF LINEAR TREE PROTECTION AREA AND ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
5. ATTACH SIGNS SECURELY TO FENCE POST AND FABRIC.
6. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.

MAINTENANCE:

1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF THE SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



NOTES:

1. STEEL POSTS TO BE BURIED A MINIMUM OF 2'-0".
2. INSTALL SILT FENCE WHERE SHOWN ON DRAWINGS AND MAINTAIN UNTIL COMPLETION OF GRADING.

SILT FENCE

NTS

SEEDBED PREPARATION:

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RE-SEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, RE-ESTABLISH FOLLOWING ORIGINAL LIME FERTILIZER AND SEEDING RATES.
9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date:_____ Permit #_____
Signed: _____

Approved Construction Plan

	Name	Date
Planning		
Public Utilities		
Traffic		
Fire		

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATES COMBINATIONS ARE POSSIBLE.

* TEMPORARY-RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING.

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NEW HANOVER COUNTY
DIVISION OF JUVENILE JUSTICE FACILITY
138 NORTH 4TH STREET
WILMINGTON, NC

EROSION DETAILS

Job No.	03180736	Drawn By	TG
Date	1126.18	Designer	JSB

NORTH CAROLINA PROFESSIONAL SEAL 39113 ENGINEER JOSEPH S. BOYD 5-22-19

Revisions

Sheet No.
C4.0

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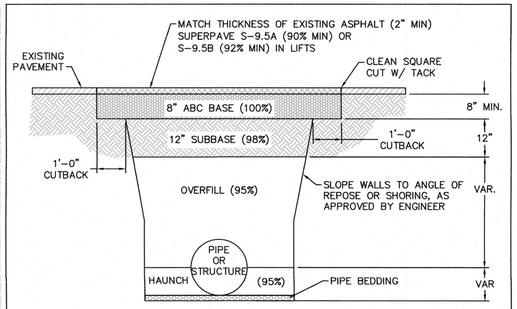
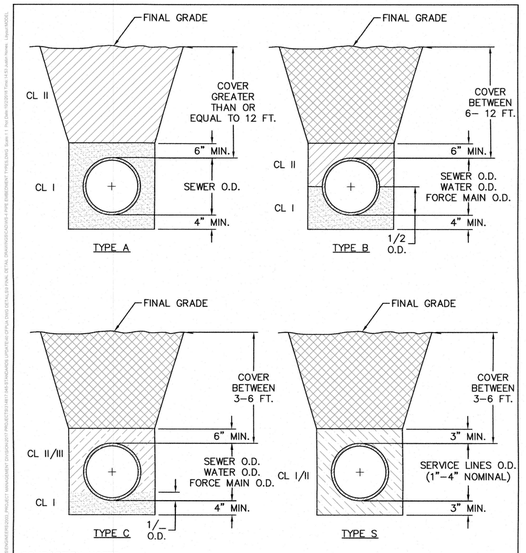


NOTES:

1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
2. FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
3. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57 STONE, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
4. SOIL SHALL BE INSTALLED IN 6"–8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK). HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
5. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
6. COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS, AND ASTM D-698-C FOR ABC STONE, AND BY NUCLEAR GAGE OR CORE SAMPLE FOR ASPHALT.
7. CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

(FOR PRIVATE ROADS AND PAVED AREAS; CONTRACTOR TO MEET MINIMUM REQUIREMENTS AS DEFINED BY RIGHT-OF-WAY OWNER FOR PUBLIC ROAD REPAIRS)

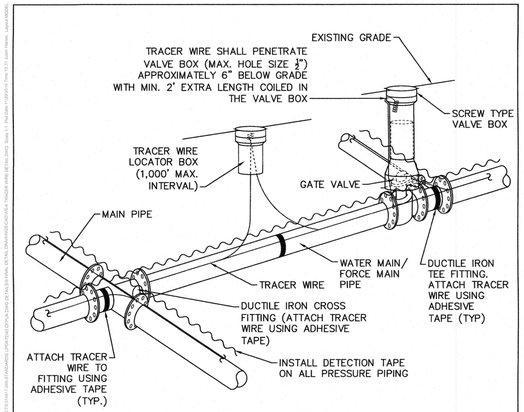
DETAIL: CITY OF WILMINGTON PAVEMENT REPAIRS-UTILITY CUTS		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: WS-1
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19		SHEET NO: -
CFPUA REV. No: 1			



COMPACTION NOTES:

1. ALL ZONES: 95% STD EFFORT PER ASTM D698, EXCEPT AS STATED IN COMPACTION NOTE 2.
2. 12" SUBGRADE UNDER PAVEMENT: 98% STD EFFORT PER ASTM D698.

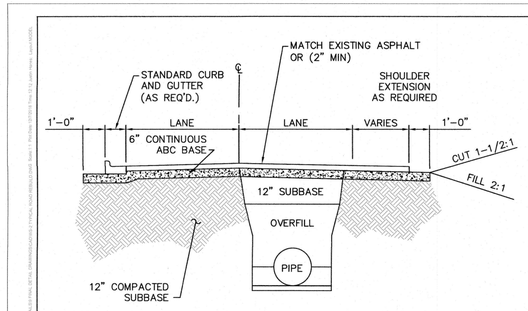
DETAIL: PIPE EMBEDMENT TYPES		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: WS-4
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19		SHEET NO: -
CFPUA REV. No: 1			



NOTES:

1. TRACER WIRE SHALL BE #10 COPPER SOLID CORE COPPER WIRE WITH GAS AND OIL RESISTANT INSULATION AND DIRECT BURY RATING.
2. WIRE SHALL BE STRAPPED TO ALL PVC PIPING WITH ADHESIVE TAPE AT 12 FOOT INTERVALS.
3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH ADHESIVE TAPE.
4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KITS.

DETAIL: TRACER WIRE DETAIL		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: WS-6
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19		SHEET NO: -
CFPUA REV. No: 1			

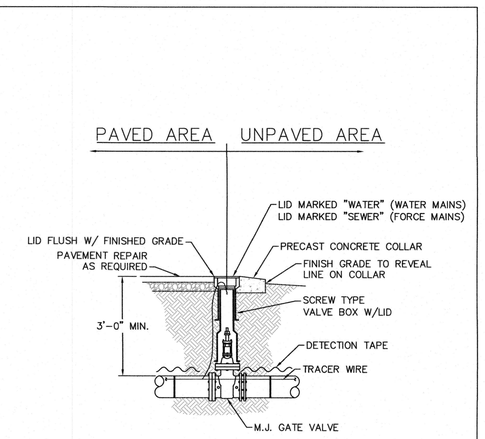


NOTES:

1. PAVEMENT RESTORATION DESIGN IS DEPENDEND ON CITY OF WILMINGTON STREET CUT POLICY AND PERMITTED CONDITIONS.
2. PIPE TRENCH AND COMPACTION REQUIREMENTS PER SPECIFICATIONS. SEE WS–1.

(FOR PRIVATE ROADS AND PAVED AREAS; CONTRACTOR TO MEET MINIMUM REQUIREMENTS AS DEFINED BY RIGHT-OF-WAY OWNER FOR PUBLIC ROAD REPAIRS)

DETAIL: CITY OF WILMINGTON TYPICAL ROAD REBUILD		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: WS-2
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19		SHEET NO: -
CFPUA REV. No: 1			



NOTES:

1. TRACER WIRE SHALL PENETRATE VALVE BOX THROUGH DRILLED HOLE APPROX. 6" BELOW GRADE WITH MINIMUM 2–FEET EXTRA LENGTH COILED IN THE VALVE BOX. SEE WS–6.

DETAIL: VALVE DETAIL		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: WS-5
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19		SHEET NO: -
CFPUA REV. No: 1			

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

1. ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND THE CFPUA'S MINIMUM TECHNICAL STANDARDS. THE CFPUA MINIMUM TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATION MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS.
2. SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
3. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT–OF–WAY LINE. SEWER SERVICES IN CUL–DE–SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE 18" INSIDE RIGHT–OF–WAY LINE.
4. ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.
5. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
6. NO FLEXIBLE COUPLINGS SHALL BE USED.
7. ALL STAINLESS STEEL FASTENERS SHALL BE TYPE 316.
8. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS.
9. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
10. UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES SHALL BE DISCONNECTED FROM MAIN.
11. A MINIMUM OF 10' OF MAIN LINE SHALL BE REPLACED FOR NEW CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.

DETAIL: STANDARD NOTES (REQUIRED ON ALL PLAN AND PROFILE SHEETS)		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: WS-14
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/02/19		SHEET NO: -
CFPUA REV. No: 2			

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

TYPICAL DETAILS NOTE:
THE TYPICAL DETAILS ON THIS SHEET WERE DESIGNED AND PREPARED BY OTHERS.

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NEW HANOVER COUNTY
DIVISION OF JUVENILE JUSTICE FACILITY
138 NORTH 4TH STREET
WILMINGTON, NC

UTILITY DETAILS

Job No. 03180736	Drawn By TG
Date 1126.18	Designer JSB

NORTH CAROLINA PROFESSIONAL SEAL 39115 ENGINEER JOSEPH S. BOYD 5-22-19

Revisions

Sheet No.
C4.1

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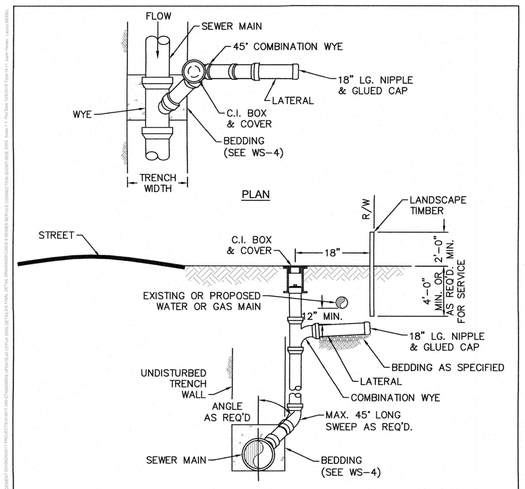

NOTES:

1. SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
2. ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.
3. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS.
4. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO MAIN.

DETAIL: SEWER SERVICE CONNECTION - SHORT-SIDE		DETAIL NO: S-9
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19	SHEET NO: -
CFPUA REV. No: 1		

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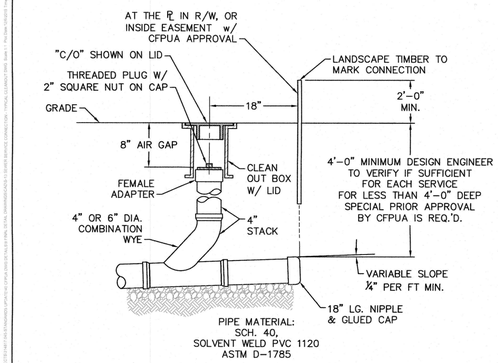

NOTES:

1. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO SYSTEM AND AT THE PROPERTY LINE, WITH REQUIRED EASEMENT.
2. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS.

DETAIL: SEWER SERVICE CONNECTION - TYPICAL CLEAN-OUT		DETAIL NO: S-13
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19	SHEET NO: -
CFPUA REV. No: 1		

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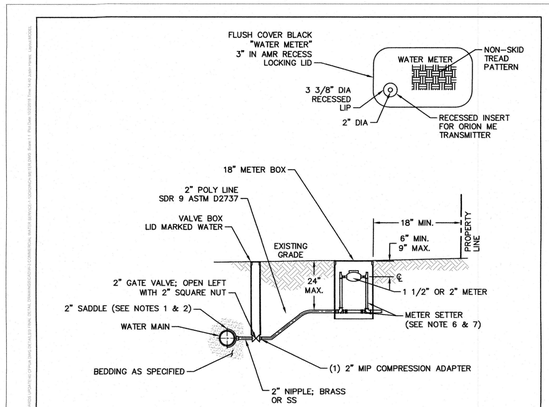

NOTES:

1. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE THE RIGHT-OF-WAY LINE.
2. SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY.
3. METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS.
4. NON-TRAFFIC METER BOXES SHALL BE PER CFPUA STANDARD MATERIAL.
5. 3" CLEAN FILL REQUIRED ALL AROUND 2" POLY SERVICE LINE.
6. 1 1/2" METER – NL METER SETTER SHALL BE PER CFPUA STANDARD MATERIAL.
7. 2" METER – NL METER SETTER SHALL BE PER CFPUA STANDARD MATERIAL.
8. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNERS.
9. SERVICE PIPING AND METER SETTER TO BE CENTERED IN THE METER BOX.

DETAIL: COMMERCIAL WATER SERVICE - 1 1/2 OR 2-INCH METERS		DETAIL NO: W-3
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19	SHEET NO: -
CFPUA REV. No: 1		

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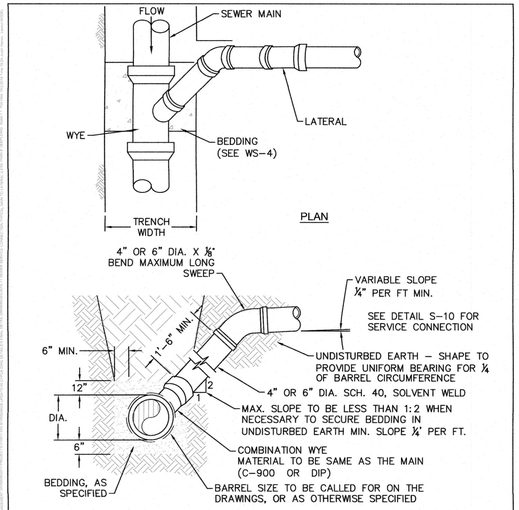

NOTES:

1. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO SYSTEM AND AT THE PROPERTY LINE, WITH REQUIRED EASEMENT.
2. ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.

DETAIL: SEWER SERVICE CONNECTION - MAIN to LATERAL (LESS THAN 8" DEEP)		DETAIL NO: S-11
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19	SHEET NO: -
CFPUA REV. No: 1		

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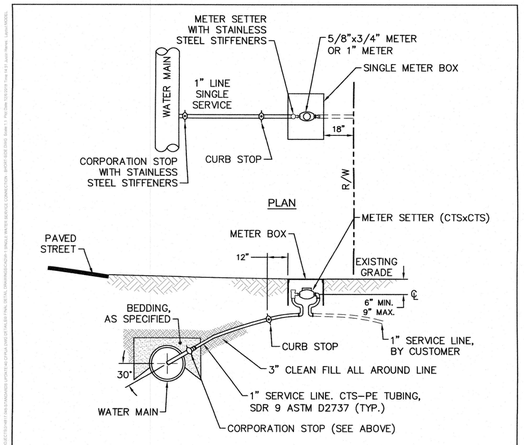

NOTES:

1. NO JOINT SHALL BE INSTALLED BETWEEN THE MAIN SERVICE TAP AND THE METER STOP. ALL SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN.
2. SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY.
3. METER BOXES SUBJECT TO TRAFFIC LOADS SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS.
4. WATER SERVICE LINE SHALL TERMINATE 18" WITHIN RIGHT-OF-WAY LINE.
5. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
6. SERVICE PIPING AND METER SETTER TO BE CENTERED IN THE METER BOX.

DETAIL: SINGLE WATER SERVICE CONNECTION - TYPICAL SHORT-SIDE CONNECTION		DETAIL NO: W-1
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19	SHEET NO: -
CFPUA REV. No: 1		

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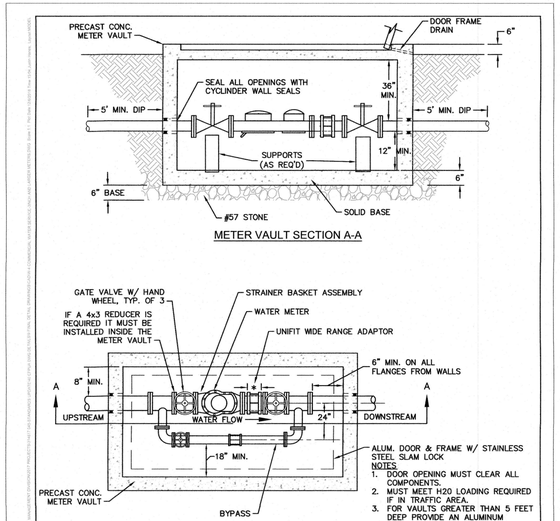

NOTES:

1. DOOR OPENING MUST CLEAR ALL COMPONENTS.
2. MUST MEET H20 LOADING REQUIRED IF IN TRAFFIC AREA.
3. FOR VAULTS GREATER THAN 5 FEET DEEP PROVIDE AN ALUMINUM ACCESS LADDER w/ SAFETY EXTENSION AND NON-SKID RUNGS @ 12" o/c ANCHORED TO THE WALL.

Meter Size	By-Pass Size
3"	4"
4"	4"
6"	4"
8"	4"
10"	6"
12"	8"

* FLANGED COUPLING ADAPTER IS BOLTED DIRECTLY TO METER, ONLY ONE PE-FLO PIECE THAT IS 3 TIMES THE PIPE DIAMETER.

DETAIL: COMMERCIAL WATER SERVICE - 3-INCH AND LARGER METERS		DETAIL NO: W-4
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/19	SHEET NO: -
CFPUA REV. No: 1		

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NORTH CAROLINA PROFESSIONAL SEAL 39117 ENGINEER JOSEPH S. BOYD 5-22-19

Revisions

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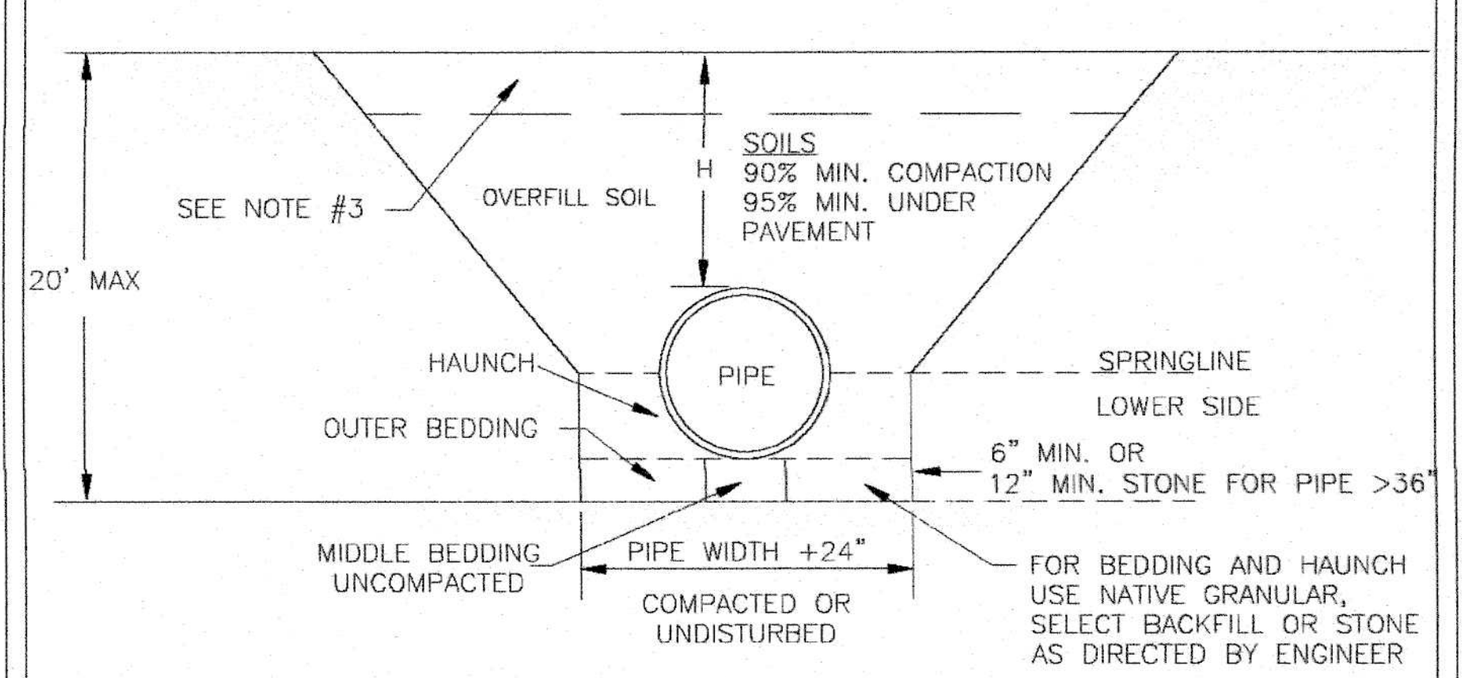
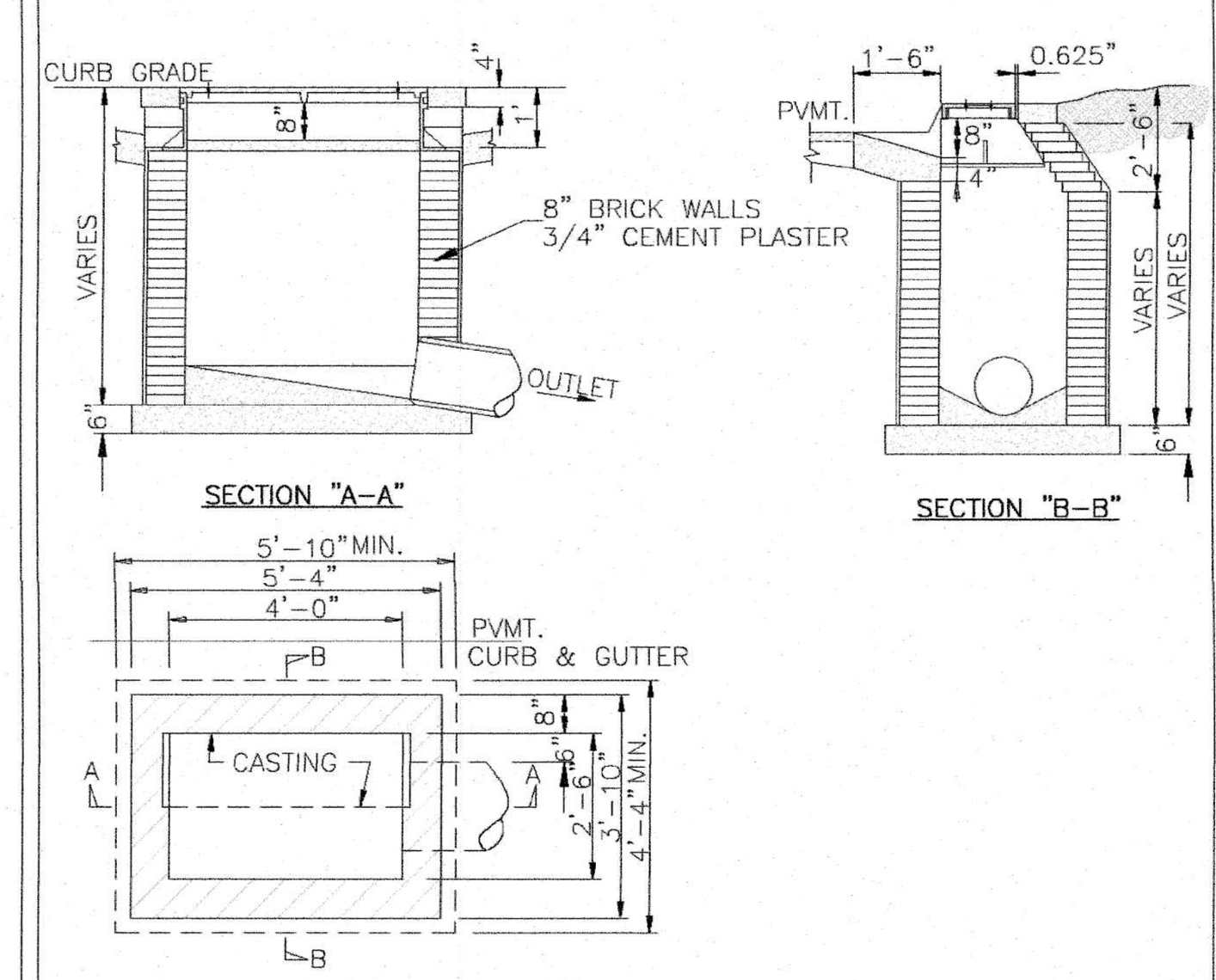


NOTES:

1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR PIPE INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
2. CONTRACTOR TO INSTALL BEDDING AND PIPE BEFORE INSTALLING HAUNCH AND THEN OVERFILL. SOILS SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED TO MIN. % DENSITY AS DETERMINED BY THE STANDARD PROCTOR ASTM D-698-A METHOD.
3. WHERE IN PAVEMENT, CONTRACTOR SHALL ADHERE TO CITY STREET CUT POLICY AND SD 1-04 OR SD 1-05 FOR ROAD AND PAVEMENT REBUILD.
4. SOIL SHALL BE COMPACTED BY A MECHANIZED TAMP (I.E. JUMPING JACK). HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
5. THIS DETAIL IS REPRESENTATIVE AND PIPE TRENCH DESIGN IS SUBJECT TO SPECIFIC SOIL CATEGORY (I, II, III), AND INSTALLATION TYPE (1, 2, 3, 4), AS DIRECTED BY THE ENGINEER AND SITE CONDITIONS.

DATE: MAY, 2013	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN: JSR	PIPE TRENCH TYPICAL	CITY OF WILMINGTON ENGINEERING OFFICE 212 OPERATIONS CENTER DRIVE WILMINGTON N.C. 28412 (910) 341-7807
CHECKED: BDR, P.E.		
SCALE: NOT TO SCALE		SD 1-07



NOTE:

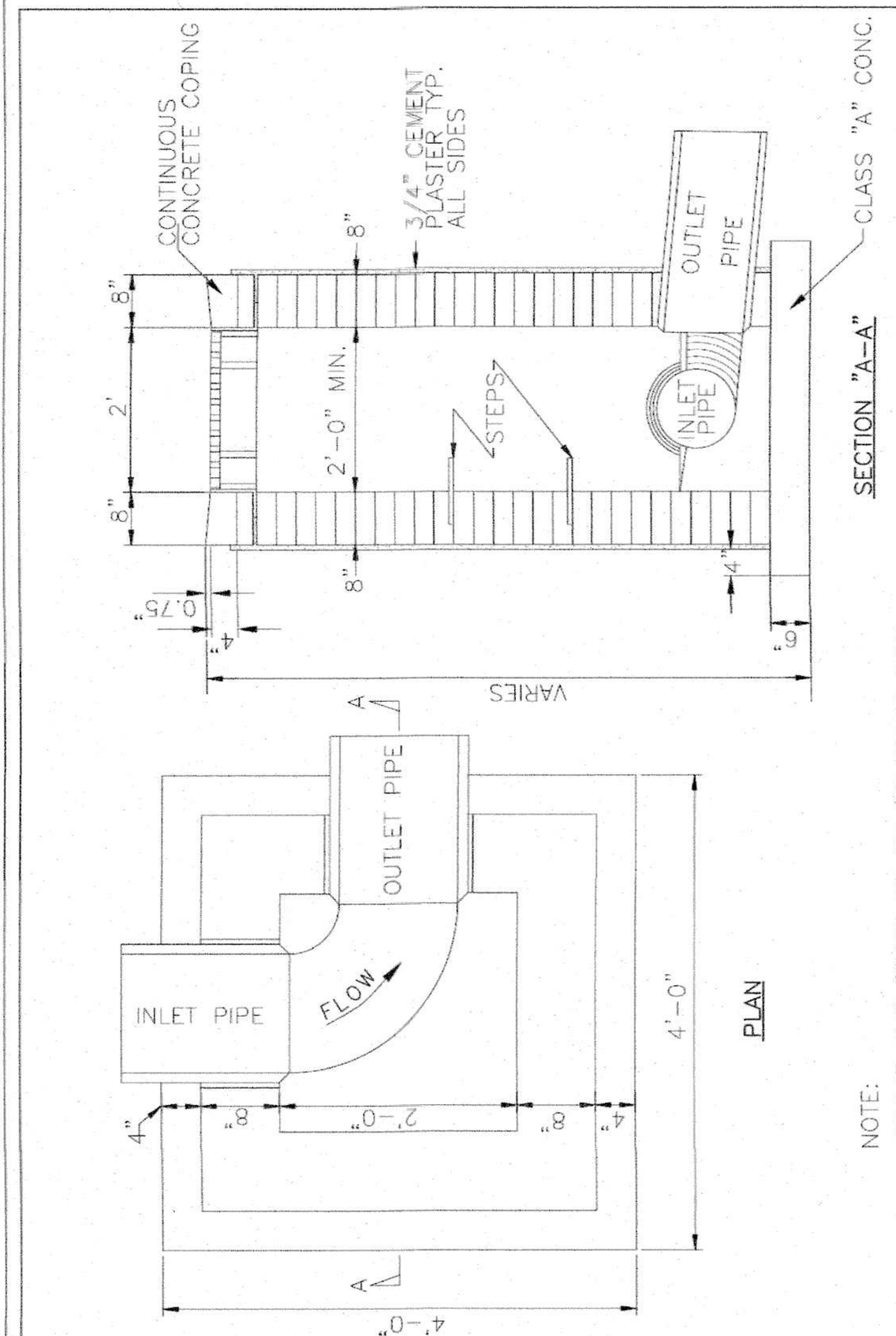
1. 4" DEEP X 8" WIDE CONCRETE COPING ALL AROUND BASIN CASTING.
2. ALL CONCRETE TO BE CLASS "A"
3. FOR CASTING DETAIL SEE SD 2-16

DATE: 2006	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	CATCH BASIN	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 2-01

GENERAL NOTES:

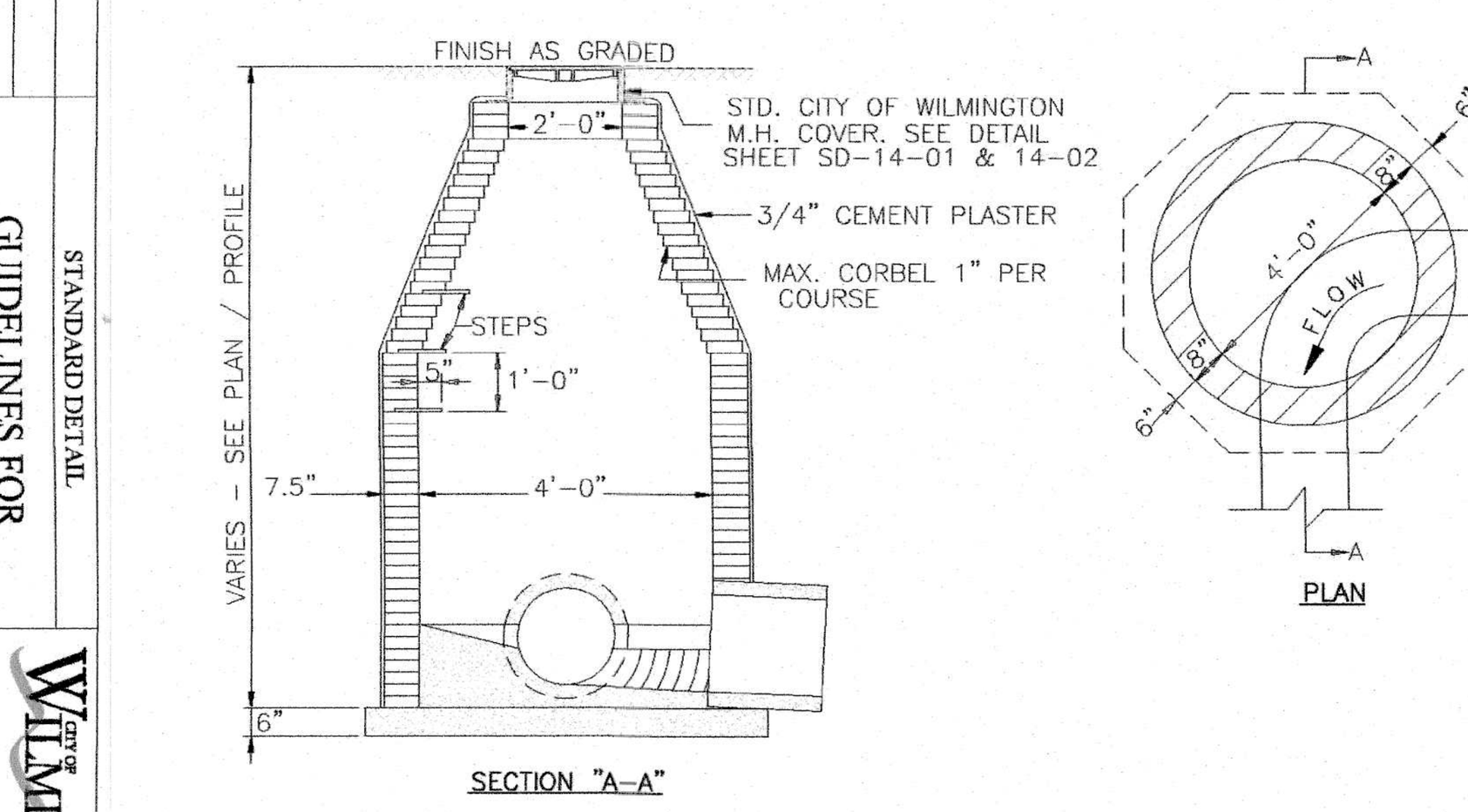
- USE 4000 PSI CONCRETE, PROVIDE FOR H-20 TRAFFIC LOADING.
- PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FAVRIC CONFORMING TO ASTM A185,
- LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 6'-0".
- PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704
- SAW CUT, CORE DRILL OR FORM OPENINGS, FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. SEAL OPENINGS WITH HYDRAULIC CEMENT.
- ALL ELEMENTS PRECAST TO MEET ASTM C913.
- SET ON 6" WASHED STONE
- FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH BRICK.
- PROVIDE PRECAST STURCTURES OVER 4'-0" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH ASHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE.
- WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED,
- SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-19B, TYPE B - BUTYL RUBBER.
- LIMIT MAXIMUM STRUCTURE SIZE TO INSIDE CLEAR DEMENSIONS OF 2'- 6" x 3' - 0".
- USE FRAME AND GRATE AS PER SD-19.
- GROUT INVERT TO PROVIDE SMOOTH FLOW

DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	PRECAST WAFFLE DRAINAGE STRUCTURE GENERAL NOTES	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 2-23a



NOTE:
FRAME AND GRATE TO BE STANDARD CITY OF WILMINGTON CAST IRON FRAME AND GRATE PER SD 14-04

DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	GRILL BASIN	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 2-02



DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	GUIDELINES FOR STORM DRAIN MANHOLE	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 2-03

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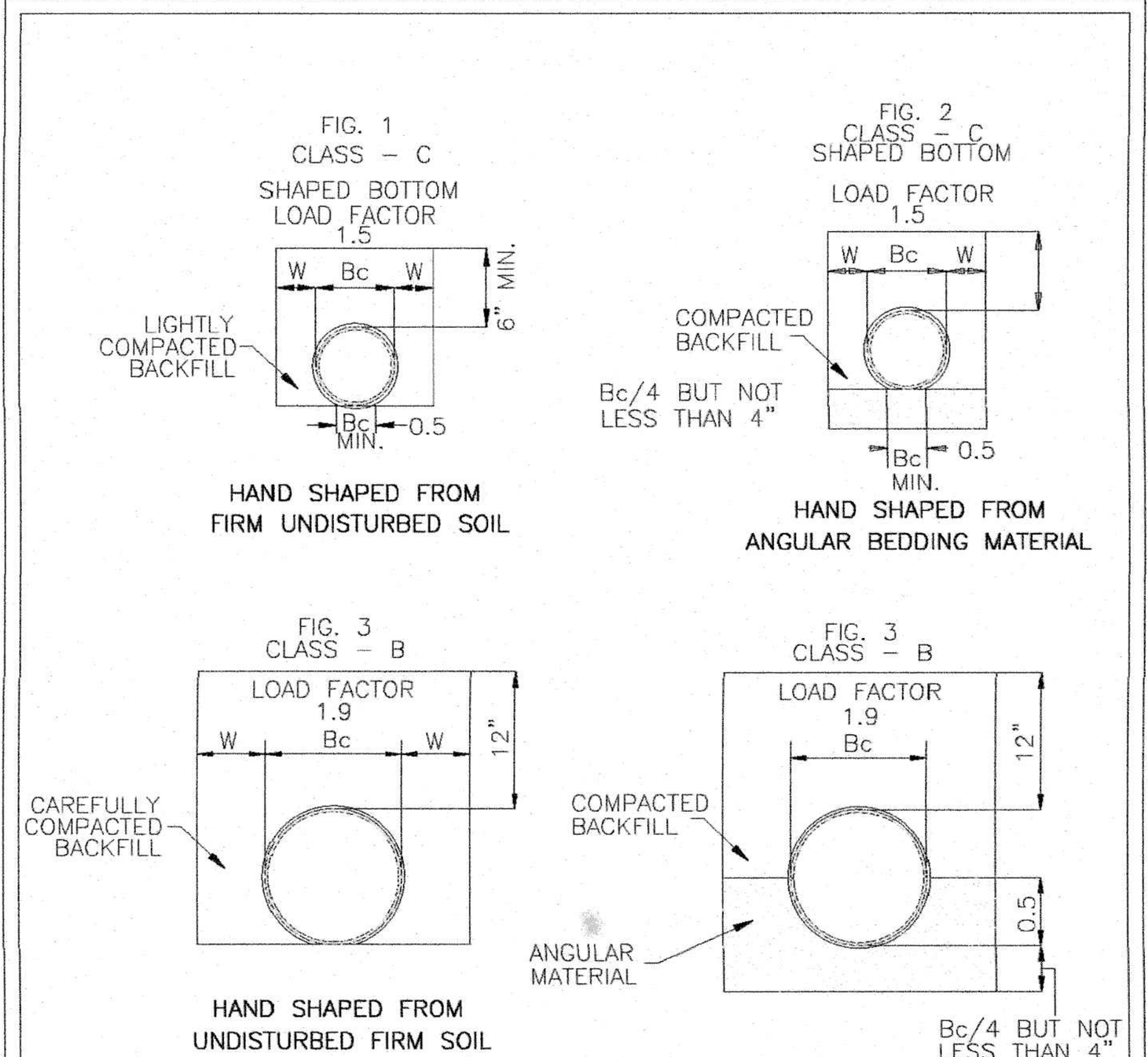
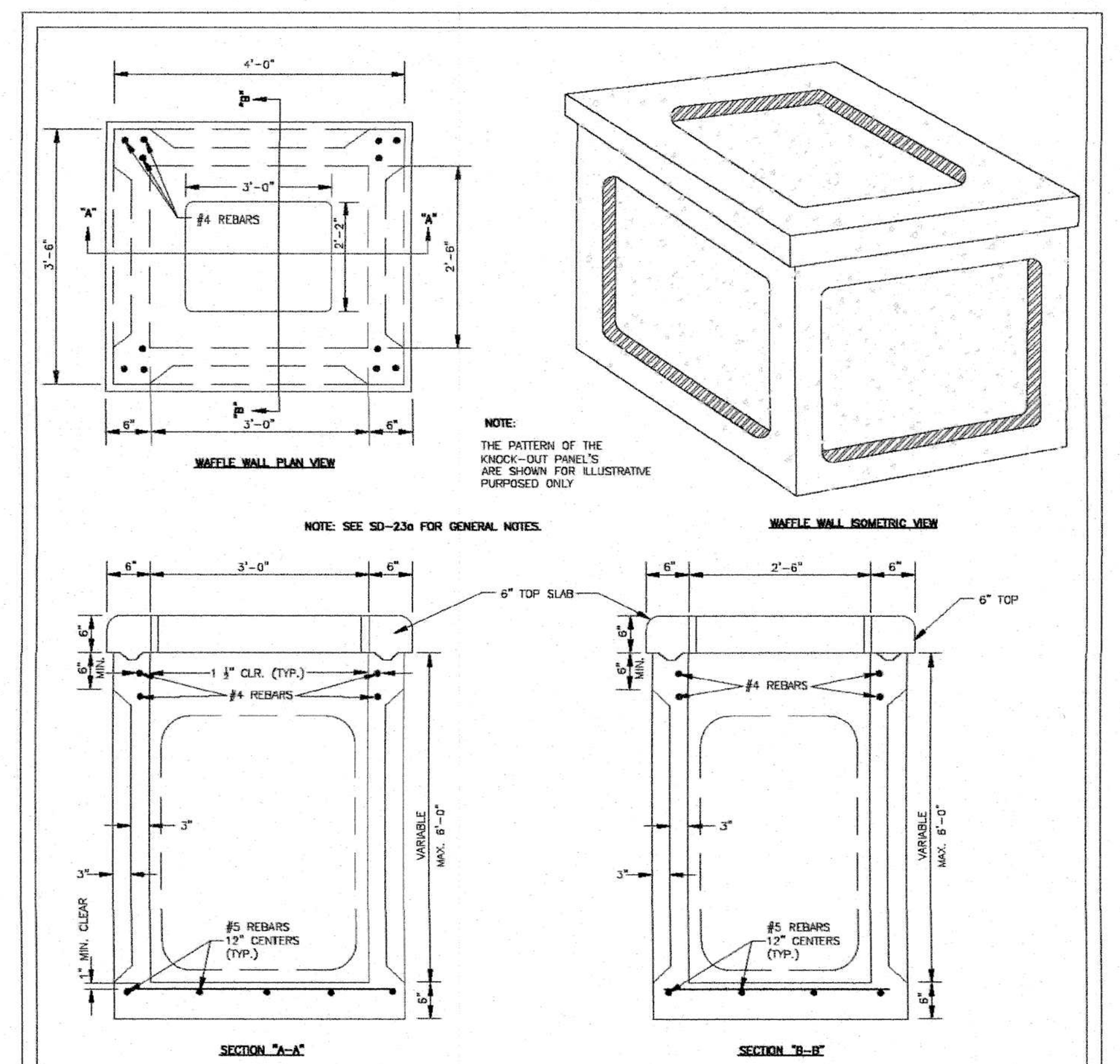
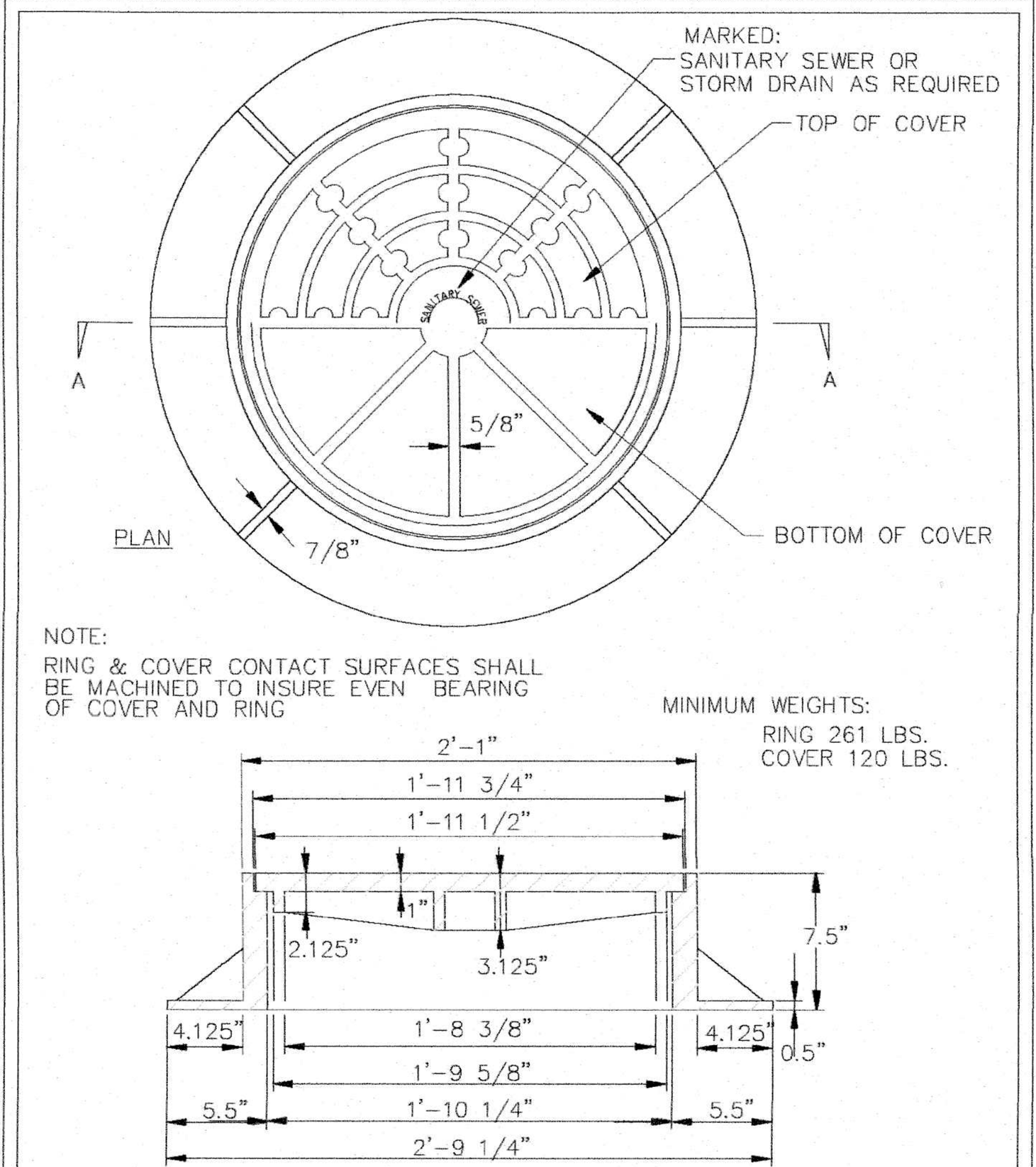


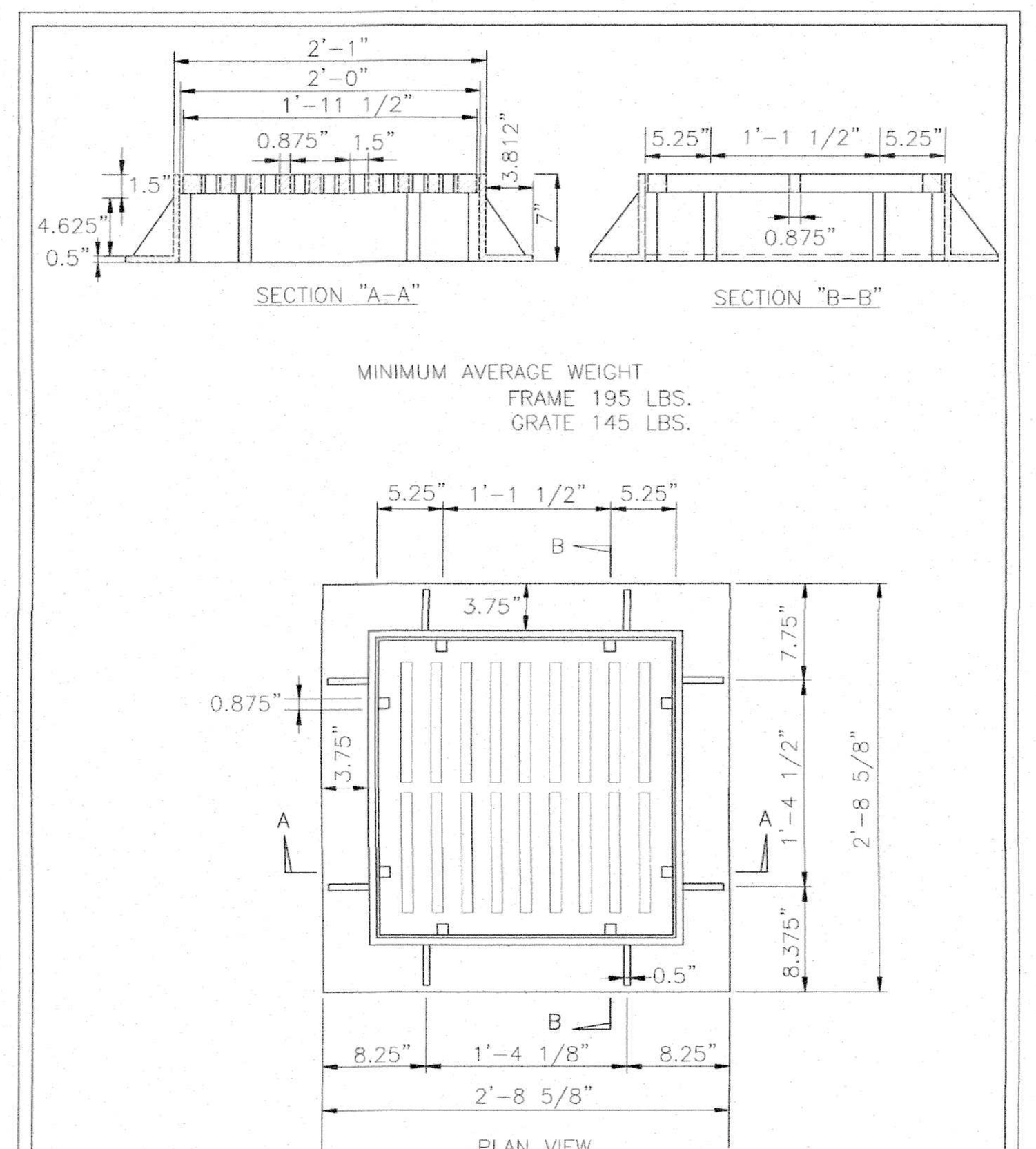
DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	GUIDELINES FOR BEDDING DETAILS, STORM SEWER CLASSES (B & C)	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 2-17



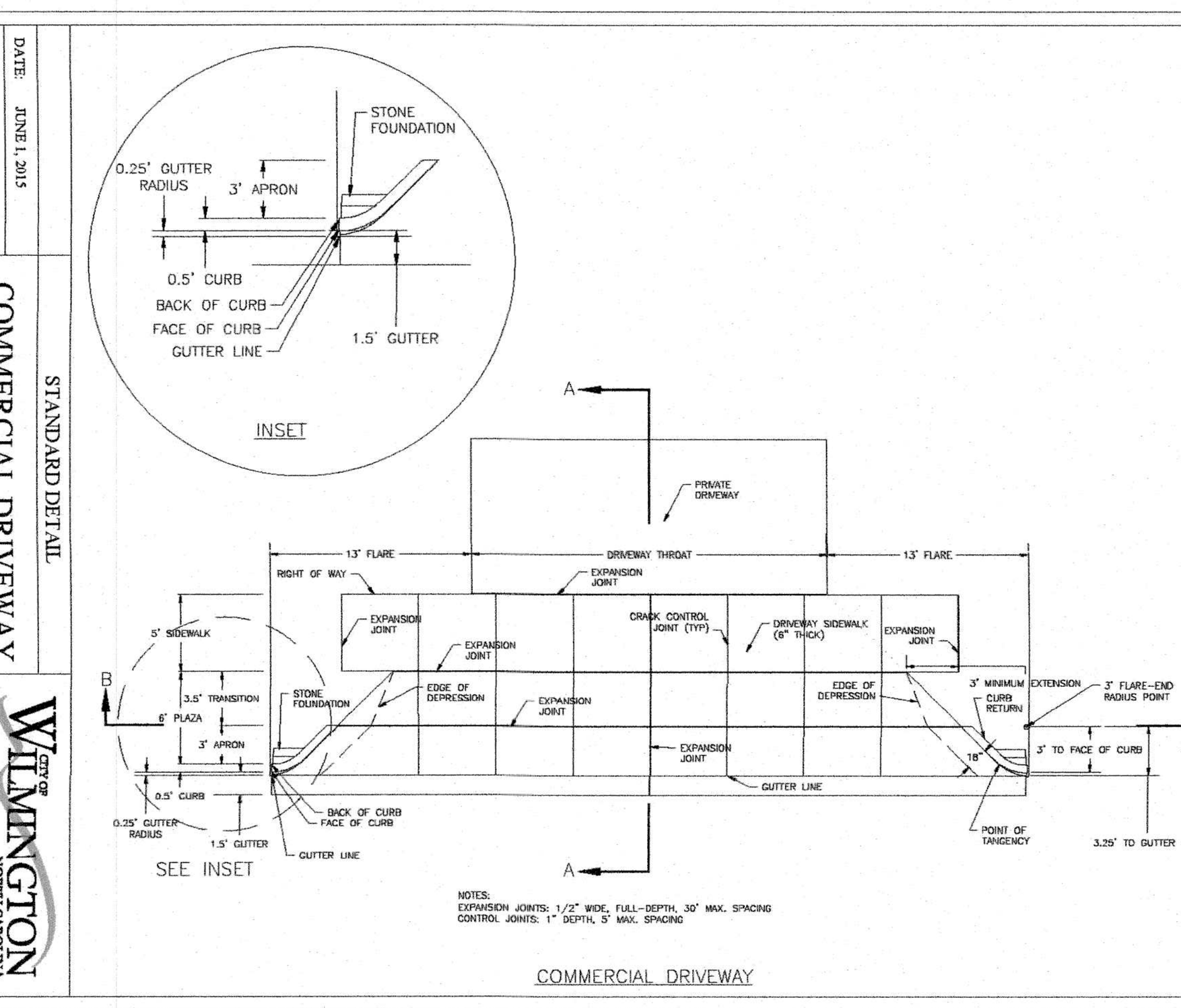
DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	PRECAST WAFFLE DRAINAGE STRUCTURE	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 2-23



DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	STANDARD MAN-HOLE RING AND COVER	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 14-02

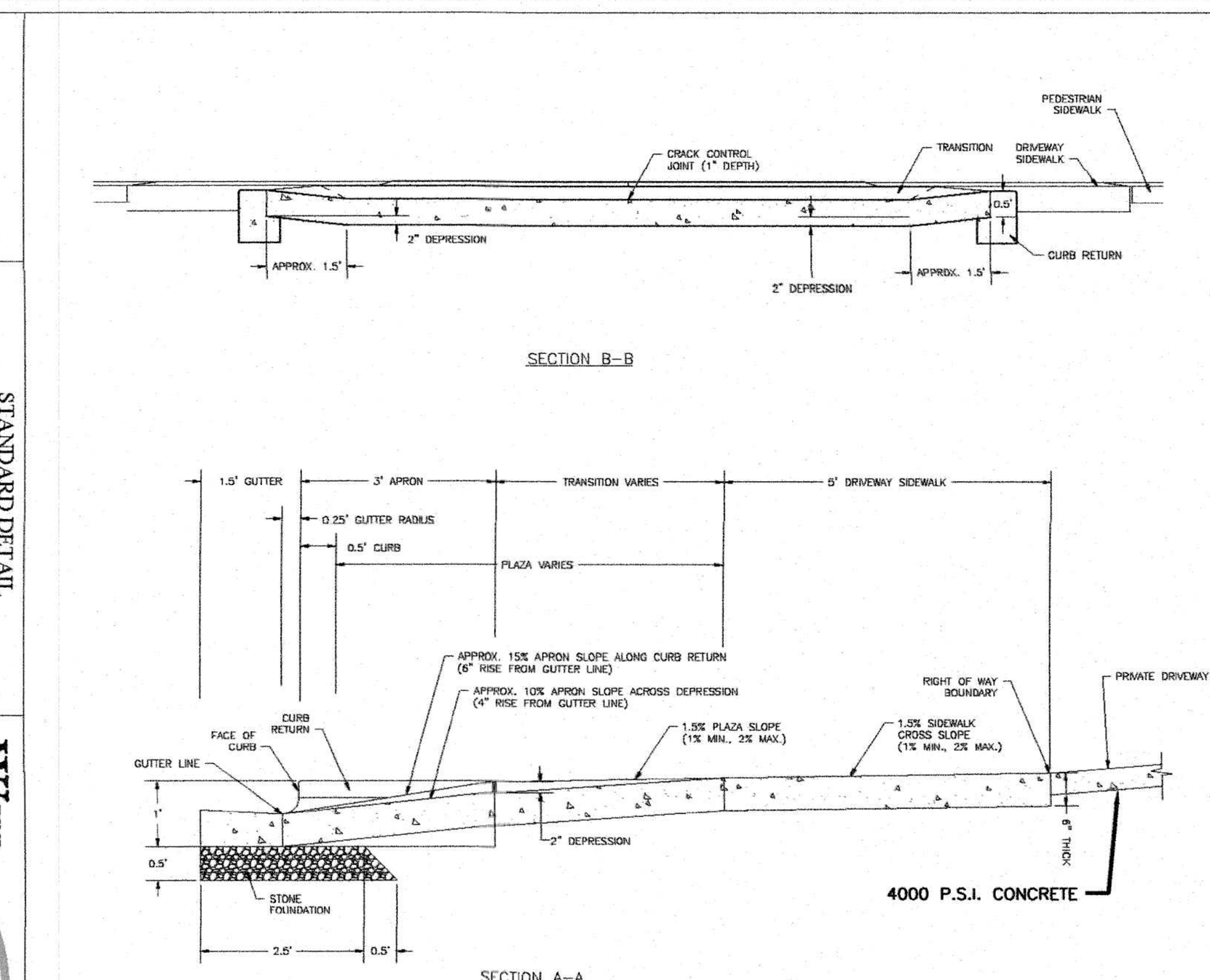


DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	GRILL BASIN CASTINGS	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 14-04



DATE: JUNE 1, 2015	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	COMMERCIAL DRIVEWAY PLAN	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON N.C. 28402 (910) 341-7807
CHECKED BY D.E.C., P.E.	1 of 2	
SCALE NOT TO SCALE		SD 3-03.3

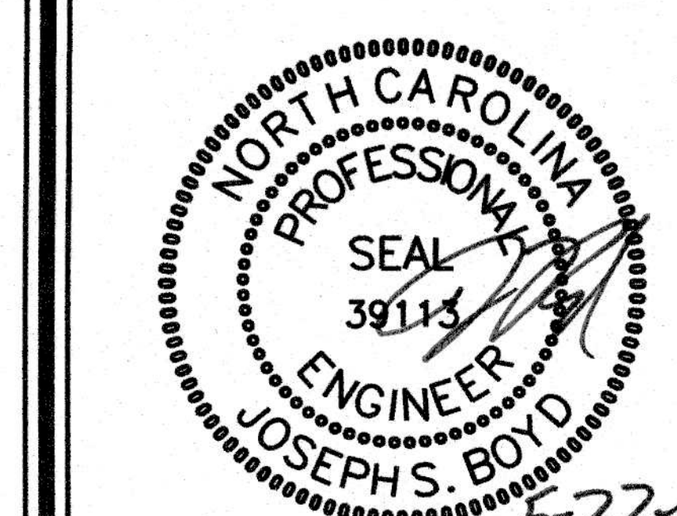
NEW HANOVER COUNTY DIVISION OF JUVENILE JUSTICE FACILITY
138 NORTH 4TH STREET
WILMINGTON, NC



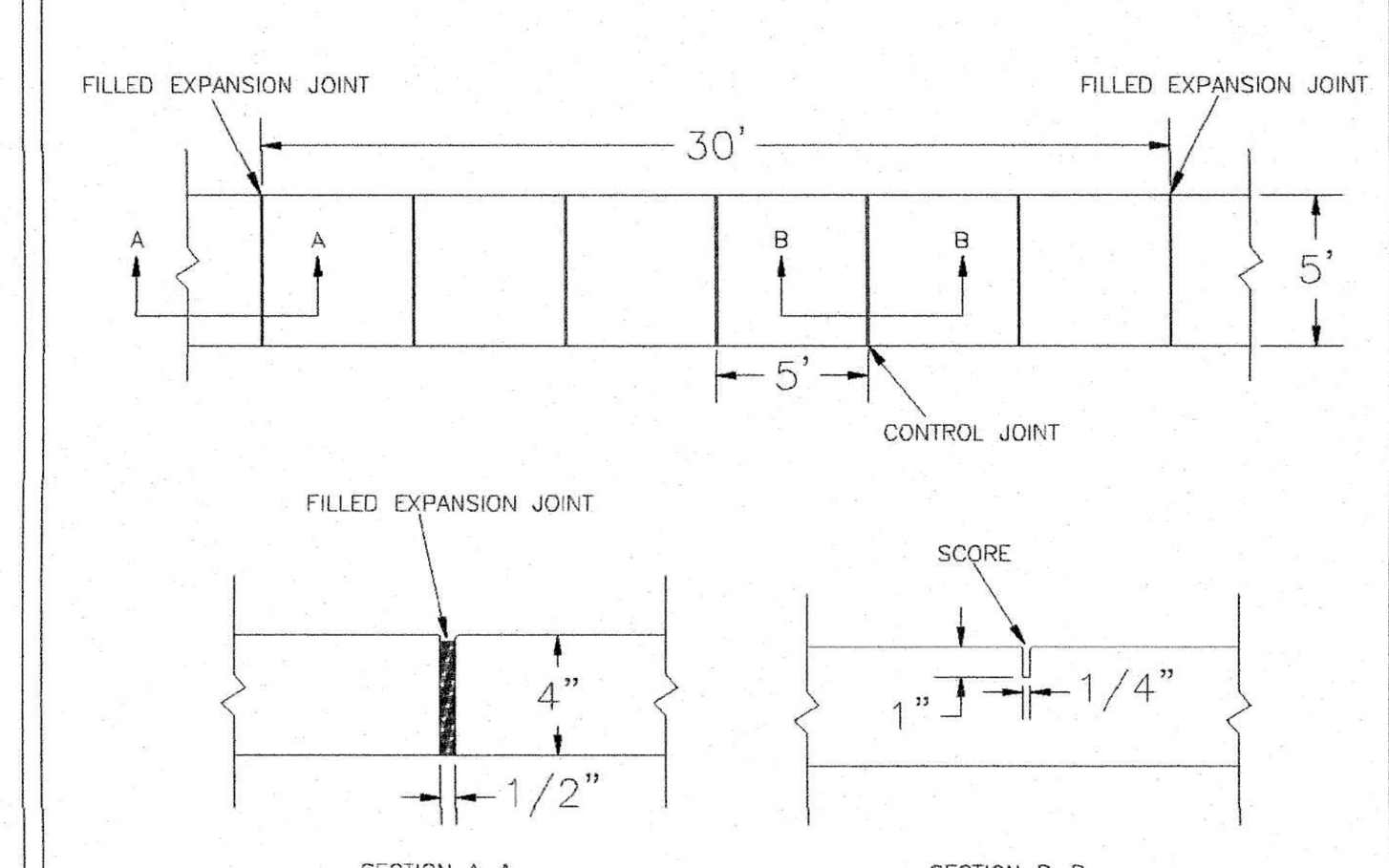
DATE: JUNE 1, 2015	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	COMMERCIAL DRIVEWAY SECTIONS	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON N.C. 28402 (910) 341-7807
CHECKED BY D.E.C., P.E.	2 of 2	
SCALE NOT TO SCALE		SD 3-03.4

STORM DRAINAGE & DRIVEWAY DETAILS

Job No. 03180736	Drawn By TG
Date 1126.18	Designer JSB



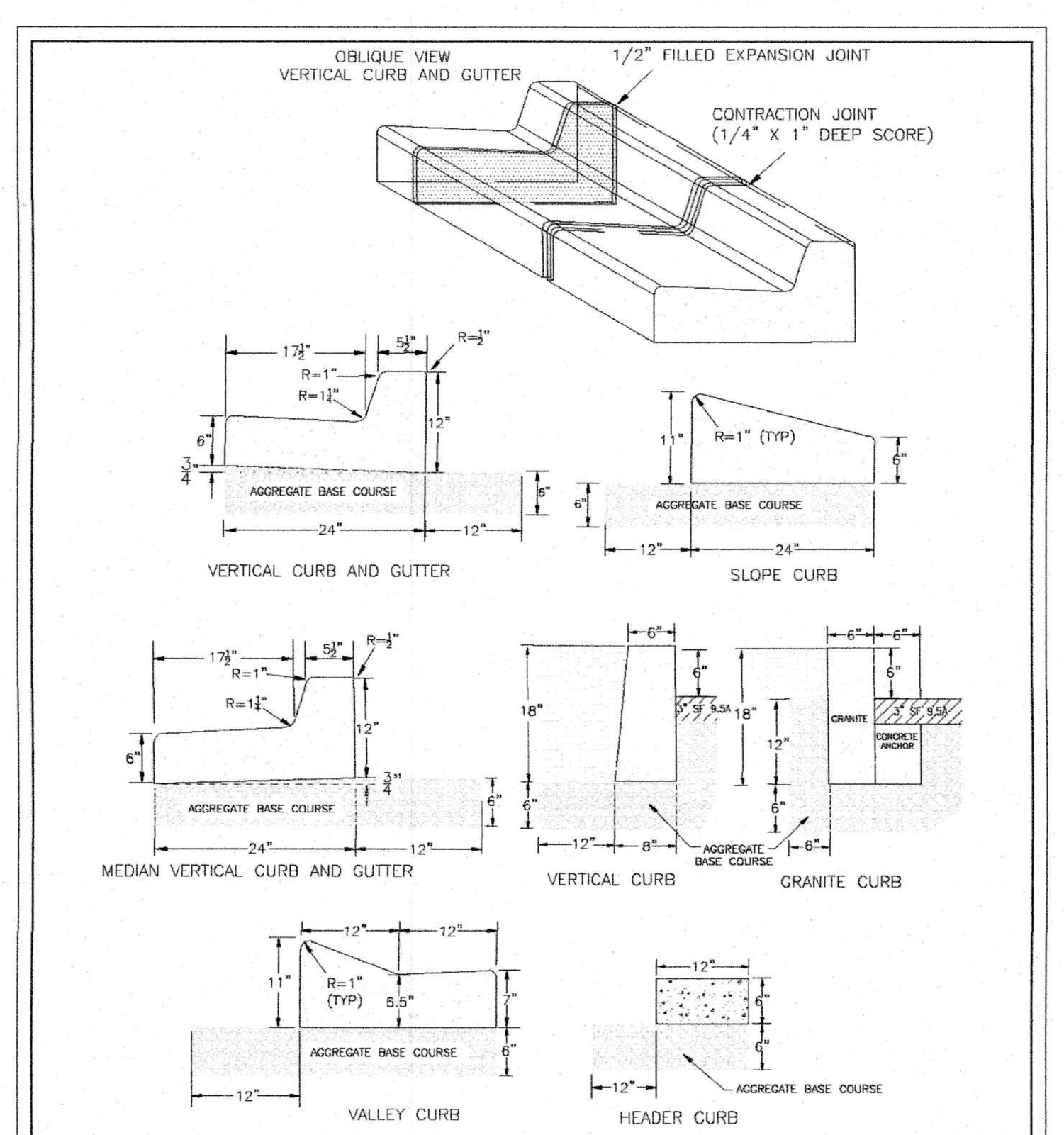
Revisions



NOTES:

1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" - 3,000 PSI.
5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL
6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS
7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

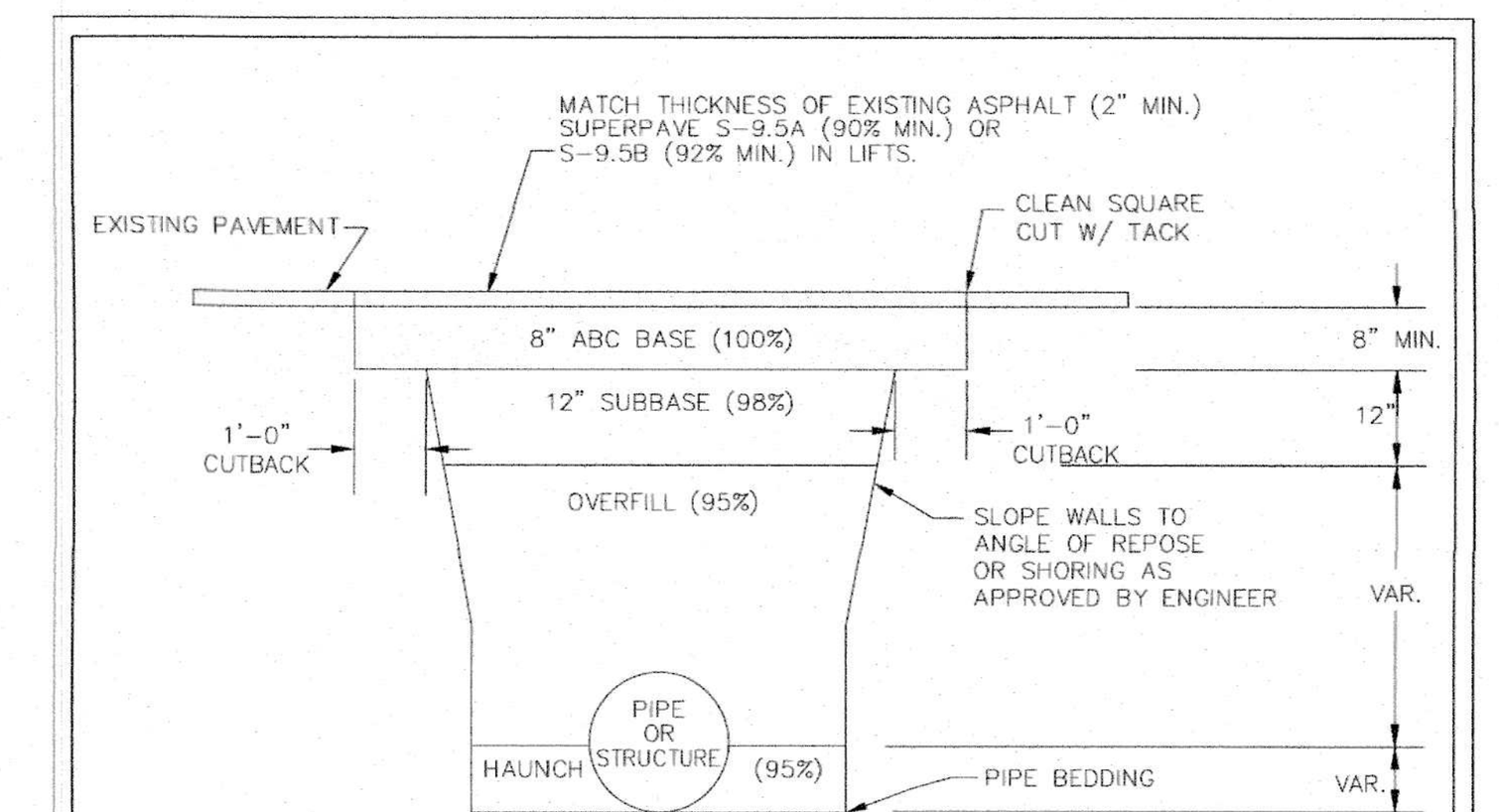
DATE: OCTOBER, 2010	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN: PB/JSR	SIDEWALK	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON N.C. 28402 (910) 341-7807
CHECKED: DEC		
SCALE NOT TO SCALE		SD 3-10



NOTES:

1. EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS
2. 50' MAX EXPANSION JOINT SPACING, 10' MAX CONTRACTION JOINT SPACING
3. MINIMUM INSTALLATION LENGTH IS 5 FT.
4. CONCRETE TO BE 3000 PSI MIN
5. VERTICAL CURB AND GUTTER BASE CAN BE SLOPED 3/4" OR USE A FLAT BASE

DATE: AUGUST, 2011	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN: PB/JSR	CURBING	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON N.C. 28402 (910) 341-7807
CHECKED: DEC		
SCALE NOT TO SCALE		SD 3-11



NOTES:

1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
2. FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
3. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
4. SOIL SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
5. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
6. COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS; AND ASTM D-698-C FOR ABC STONE; AND BY NUCLEAR GAUGE OR CORE SAMPLE FOR ASPHALT.
7. CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

DATE: MAY, 2013	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	PAVEMENT REPAIRS- UTILITY CUTS	CITY OF WILMINGTON ENGINEERING OFFICE 212 OPERATIONS CENTER DRIVE WILMINGTON N.C. 28412 (910) 341-7807
CHECKED BY D.E.C., P.E.		
SCALE NOT TO SCALE		SD 1-05

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date:__________ Permit #__________
Signed: __________

TYPICAL DETAILS NOTE:
THE TYPICAL DETAILS ON THIS SHEET WERE DESIGNED AND PREPARED BY OTHERS.

Approved Construction Plan

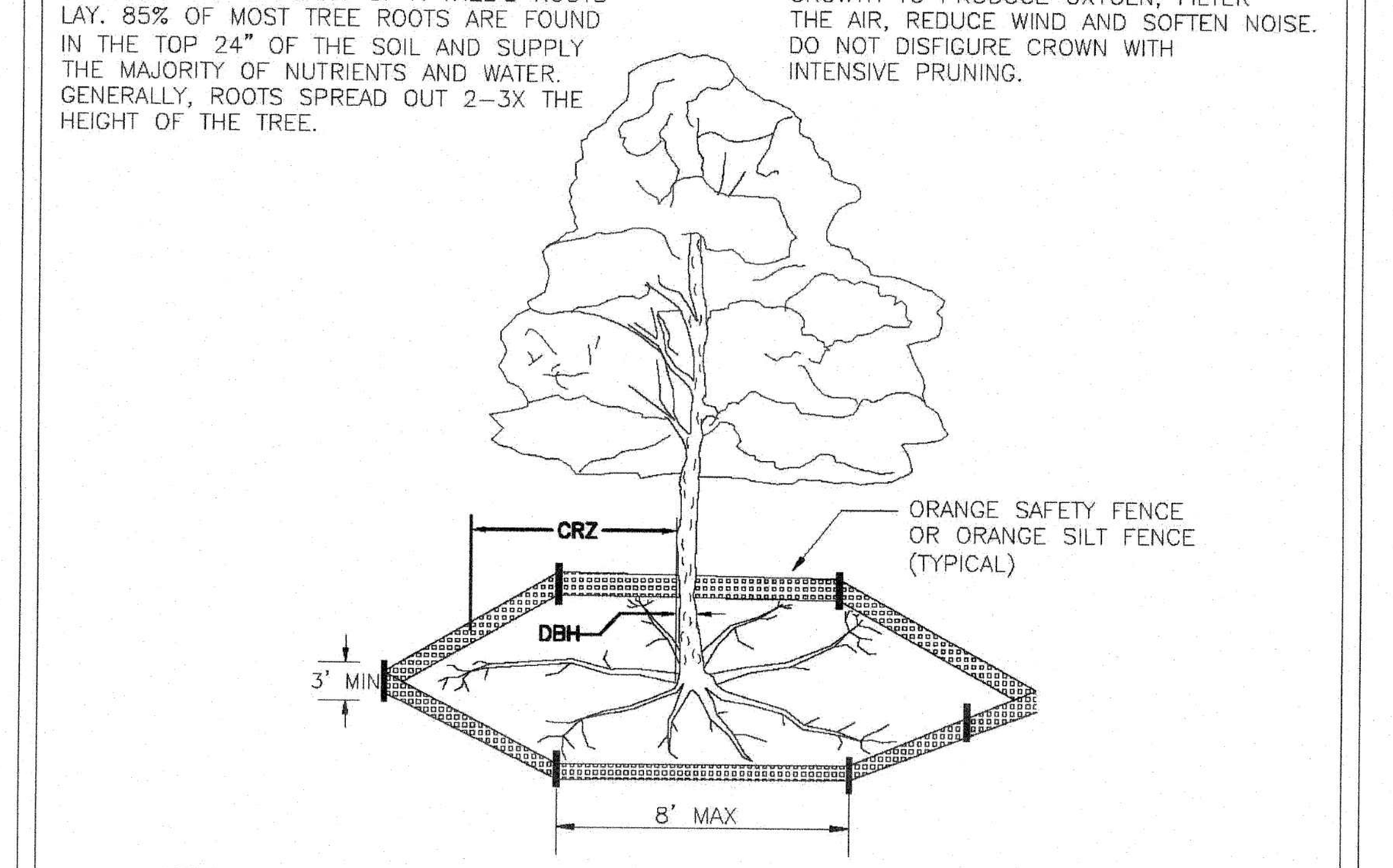
	Name	Date
Planning		
Public Utilities		
Traffic		
Fire		

Sheet No.
C4.3

w:\18\18-0730\180736-new hanover j. courthouse\CAD\const drawings\C4.0 DETAILS.dwg- Wednesday, May 15, 2019 3:13:23 PM - GARRICH, TOM

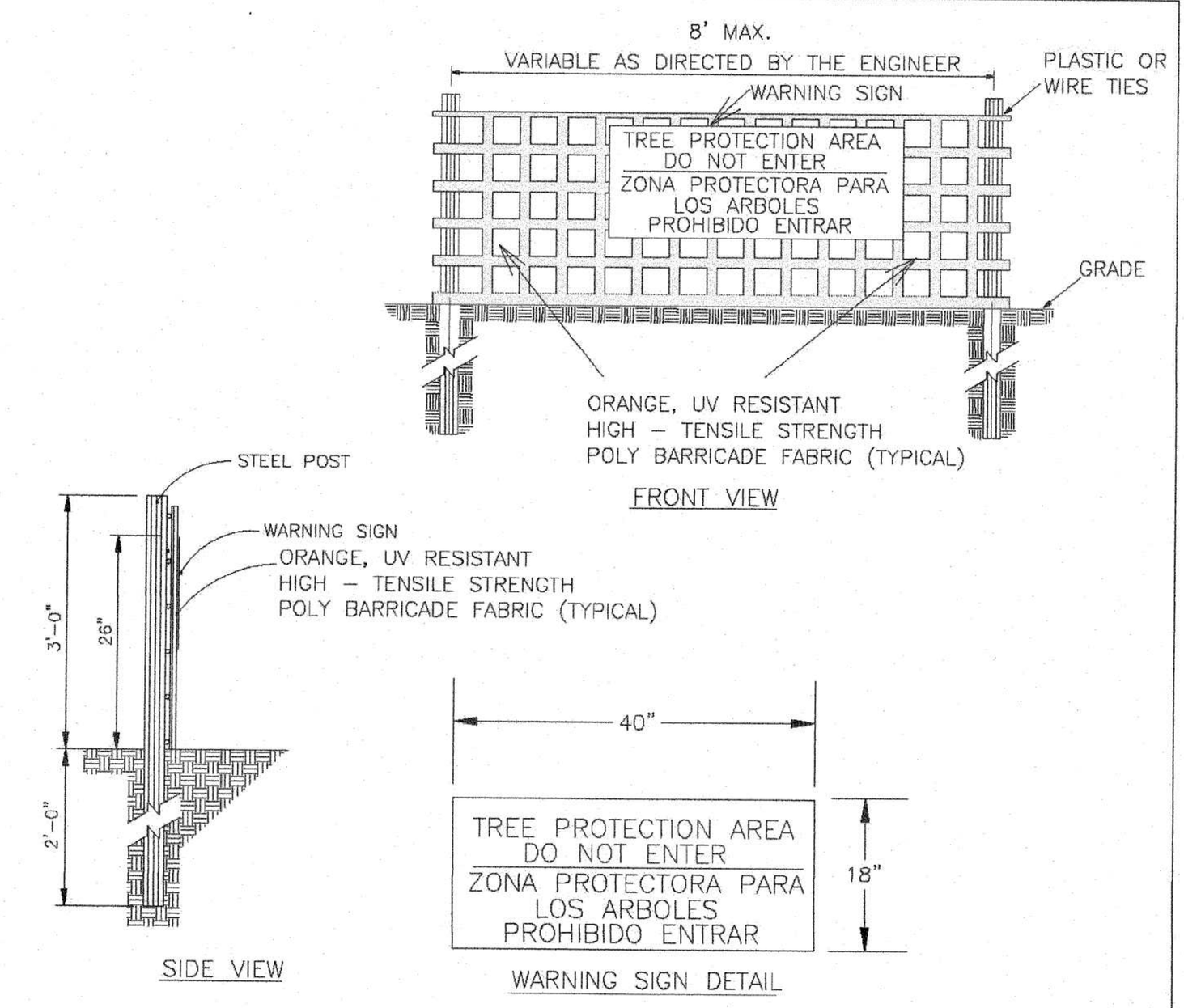
NOTE:
THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2–3X THE HEIGHT OF THE TREE.

NOTE:
CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.



NOTES:
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATTS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF $500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

DATE: JAN, 2015	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	TREE PROTECTION DURING CONSTRUCTION	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY RDG, P.E.		
SCALE NOT TO SCALE	SHEET 1 of 2	SD 15-09



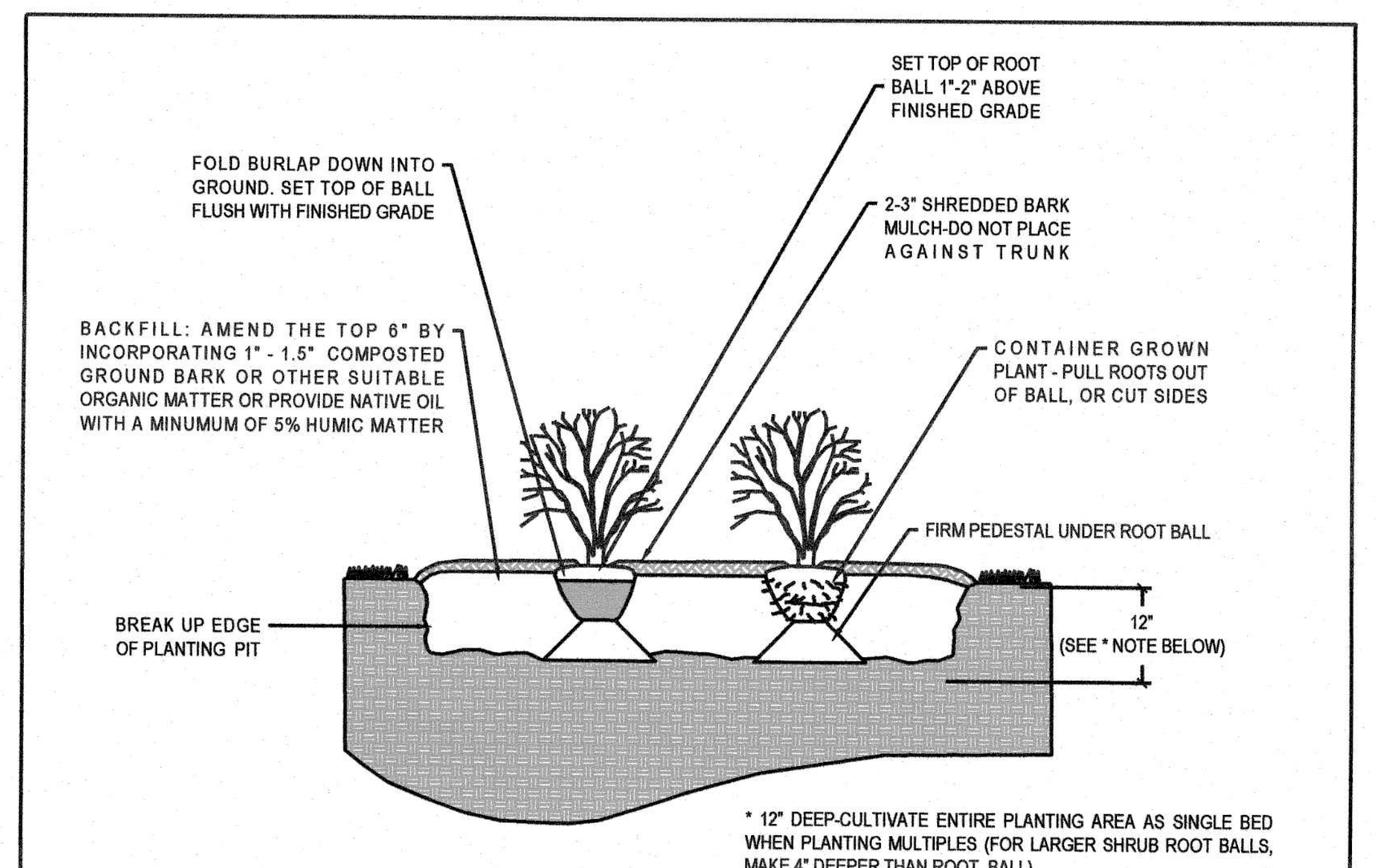
NOTES:
1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

DATE: JAN, 2015	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	TREE PROTECTION DURING CONSTRUCTION	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY RDG, P.E.		
SCALE NOT TO SCALE	SHEET 2 of 2	SD 15-09

LANDSCAPE NOTES:

1. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET FORTH IN "THE AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
2. ALL AREAS DISTURBED AND NOT SPECIFIED AS MULCHED PLANTING BEDS WILL BE GRASSED. LAWN AREAS MAY BE ESTABLISHED WITH EITHER SOD OR SEED AT THE CONTRACTOR'S DISCRETION. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FULL STAND OF GRASS AT THE TIME OF COMPLETION.
3. CONTRACTOR SHALL USE WHATEVER METHOD OF TREE STAKING HE DEEMS FIT. HOWEVER, HE WILL BE HELD LIABLE FOR ANY DAMAGES CAUSED TO TREES BY IMPROPER STAKING METHODS (OR ABSENCE OF STAKING) AND IS RESPONSIBLE FOR UPRIGHTING AND REPLANTING TREES WHICH ARE BLOWN OVER.
4. CONTRACTOR SHALL WARRANTY ALL TREES AND SHRUBS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK OF THE LANDSCAPE PLAN.
5. IF DISCREPANCIES OR AVAILABILITIES ARE FOUND IN THE PLANT SPECIES AND/OR MIN. SIZES REQ'D., CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT. SUBSTITUTIONS MAY BE MADE WITH AUTHORIZATION AS LONG AS THE PLANTS FOLLOW THE INTENDED FORM AND FUNCTION.
6. THE DEVELOPER SHALL NOTIFY LANDSCAPE DESIGNER PRIOR TO INSTALLATION TO ENSURE PROPER TREE SELECTION & SPACING.
7. EACH TREE SHALL BE A MINIMUM OF 2" CALIPER AS MEASURED FROM THE DIAMETER AT BREAST HEIGHT (DBH)
8. TREES WITHIN THE SAME BLOCKS SHALL BE THE SAME SPECIES.
9. ALL PLANTINGS SHALL BE CURBED OR OTHERWISE PHYSICALLY PROTECTED FROM VEHICULAR TRAFFIC.
10. THE OWNER IS RESPONSIBLE FOR MAINTAINING ALL REQUIRED PLANT MATERIAL AND PLANTING AREAS IN GOOD HEALTH AND APPEARANCE. ANY DEAD, UNHEALTHY OR MISSING PLANTS MUST BE REPLACED WITHIN 60 DAYS WITH VEGETATION WHICH CONFORMS TO THE INITIAL PLANTING RATES AND STANDARDS.
11. NO PLANTINGS OVER 30" IN HEIGHT SHALL BE ALLOWED IN VISION CLEARANCE. EXISTING TREES IN THE SIGHT DISTANCE TRIANGLE SHOULD BE LIMBED UP TO ACCOMMODATE THE CODE REGARDING SIGHT DISTANCE TRIANGLES. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30" TO 10'.
12. PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
13. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT. [SD 15-14 COFW TECH STDS]
14. THERE IS NO CONSERVATION RESOURCES ASSOCIATED WITH THE PARCELS INCLUDING ANY RARE OR ENDANGERED SPECIES IN ACCORDANCE WITH THE NC WILDLIFE RESOURCES COMMISSION.
15. THE CRITICAL ROOT ZONE (CRZ) SHALL BE PROTECTED DURING CONSTRUCTION BY APPROVED TREE PROTECTION FENCING AND PRACTICES. TREE PROTECTIVE FENCING SHALL BE SHOWN ON SITE PLANS AND GRADING PLANS AROUND EACH TREE, CLUSTER OF TREES, AT PERIMETER OF TREE-SAVE AREAS, AND AT LIMITS OF DISTURBANCE. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED. TREE PROTECTIVE FENCING SHALL REMAIN IN PLACE THROUGH COMPLETION OF CONSTRUCTION ACTIVITIES.
16. IF THE ENTIRE CRZ CANNOT BE PRESERVED, THE DISTURBED AREA SHALL EXTEND NO CLOSER TO THE PROTECTED TREE TRUNK THAN ONE HALF (½) THE RADIUS OF THE CRZ. IN NO CASE CAN MORE THAN 40% OF THE CRZ BE DISTURBED. REFER TO C1.1 FOR ALL EXISTING TREE INFORMATION.
17. REFER TO ALL C2.0 FOR ALL PROPERTY OWNER, ADDRESS INFORMATION AND GENERAL SITE PLAN DETAILS.
18. AMENDED SOIL SHALL BE COMPOSED OF 50% HIGH QUALITY TOPSOIL AND 50% PROFESSIONAL GRADE COMPOST
19. STRUCTURAL SOIL SHALL BE CU-STRUCTURAL SOIL OR EQUIVALENT COMPOSITION

NOTE: TWO SMALL TREES PROPOSED IN PLACE OF REQUIRED CANOPY TREES DUE TO OVERHEAD POWER LINES AND MINIMUM SPACING STANDARDS

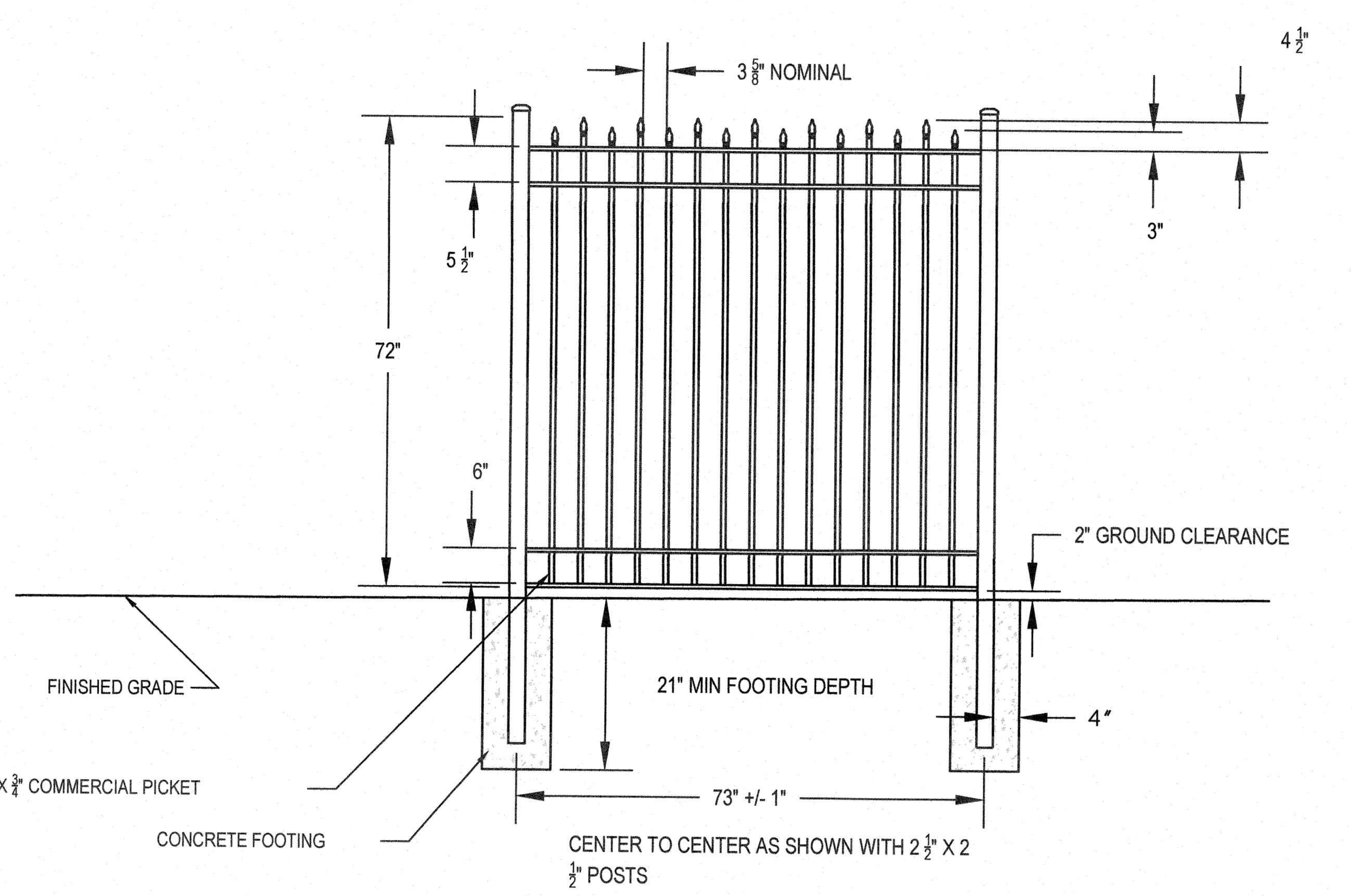


* 12" DEEP-CULTIVATE ENTIRE PLANTING AREA AS SINGLE BED WHEN PLANTING MULTIPLES (FOR LARGER SHRUB ROOT BALLS, MAKE 4" DEEPER THAN ROOT BALL)

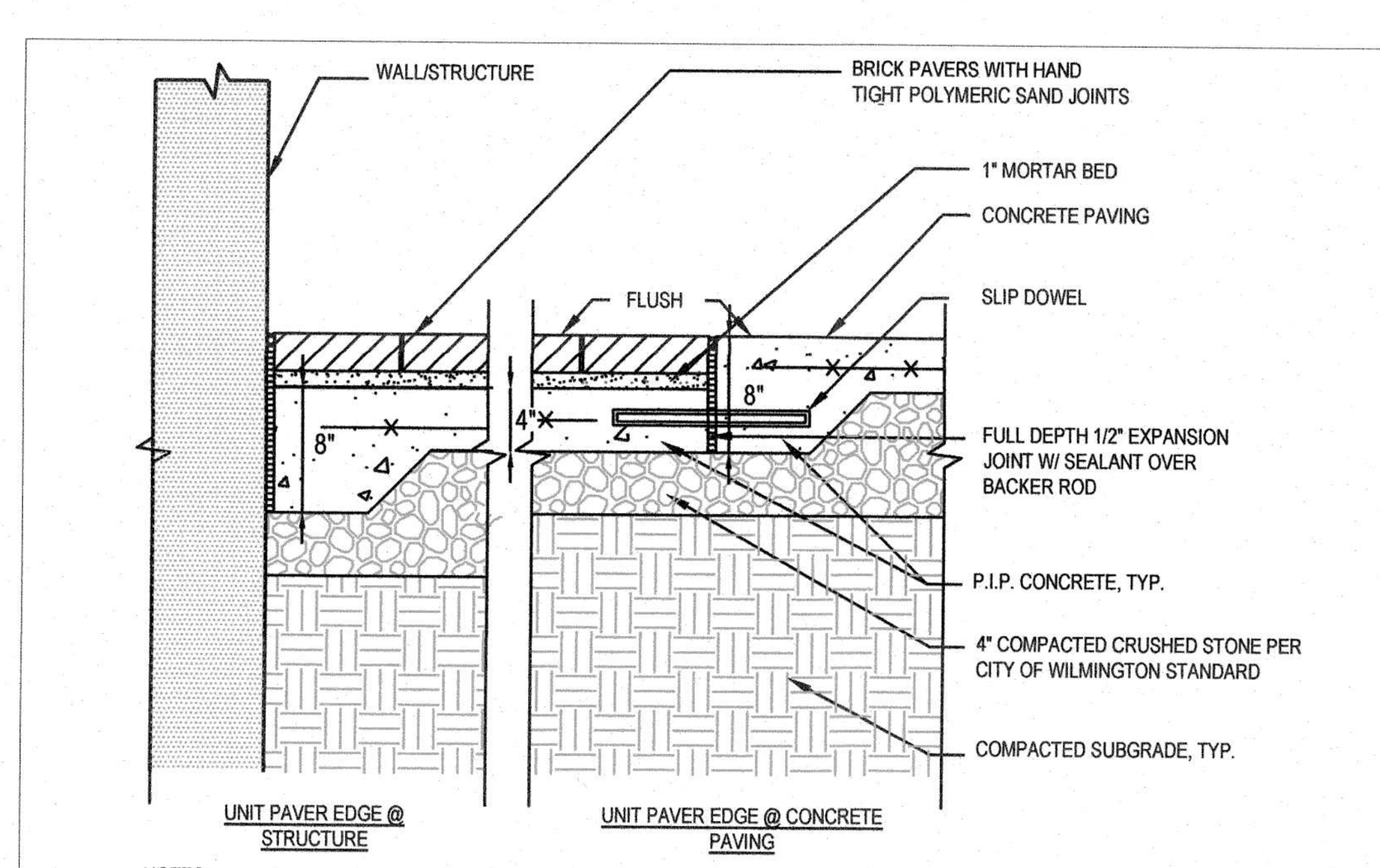
NOTES

1. ALL SHRUBS SHALL CONFORM TO THE STANDARDS SET FORTH IN THE MOST RECENT *AMERICAN STANDARDS FOR NURSERY STOCK* PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (A.A.N.).
2. SOIL ANALYSIS SHALL BE OBTAINED PRIOR TO PLANTING. SOIL SHALL BE AMENDED AS RECOMMENDED.
3. SHEET PREPARATION OF BEDS IS HIGHLY PREFERRED TO INDIVIDUAL DUG HOLE.S.

SHRUB/GROUNDCOVER PLANTING DETAIL (LAN-38)
NTS

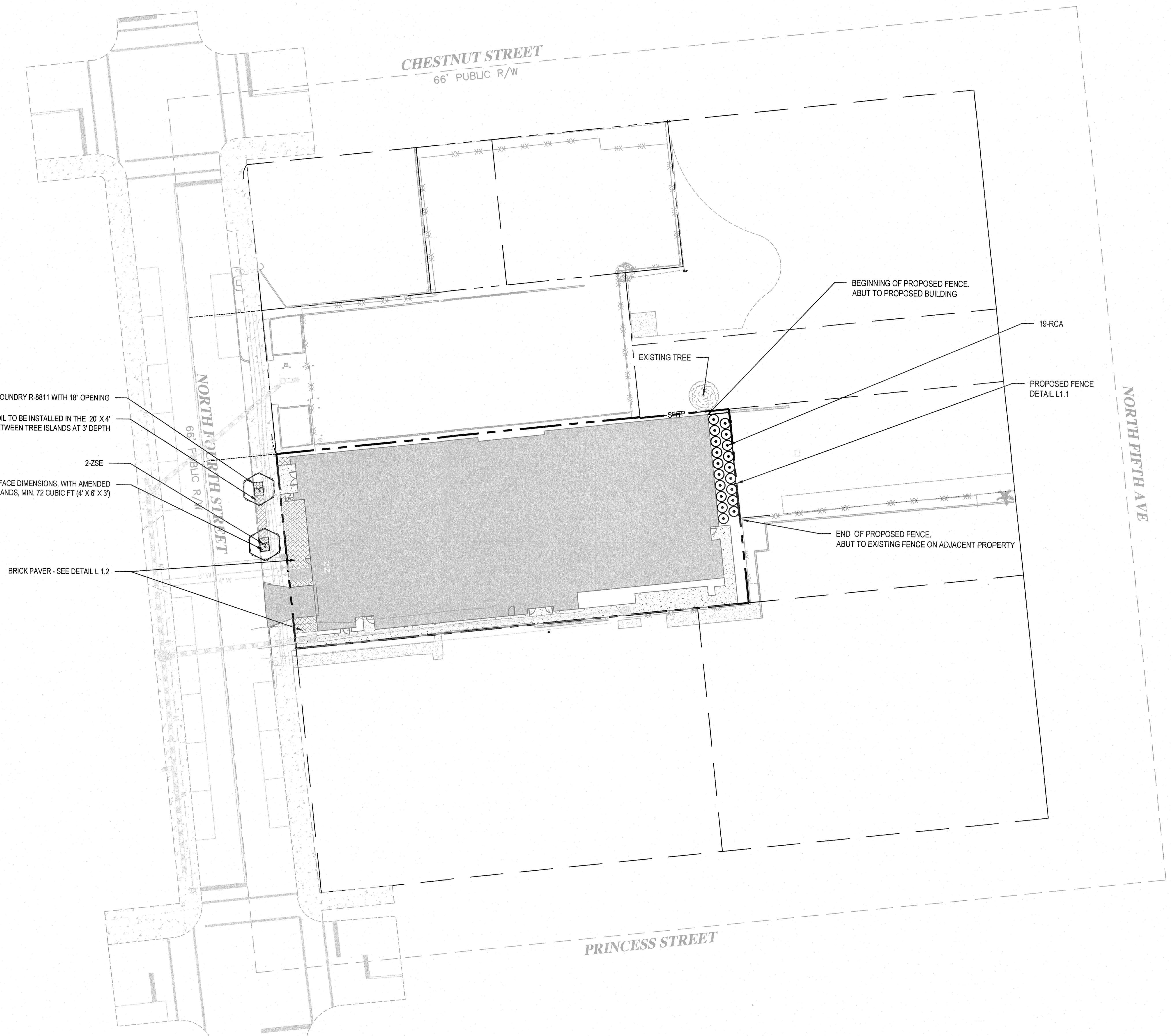


L1.1 - PROPOSED FENCE SECTION



NOTES:
1. INSTALL 1/2" EXPANSION JOINT WITH SEALANT WHEN PAVING IS ADJACENT TO VERTICAL FACES, CURBS, STEPS, ANY FIXED OBJECT, OR OTHER RIGID PAVING MATERIAL, AND AT A MAXIMUM 20' O.C. UNLESS OTHERWISE NOTED ON PLANS.
2. MAXIMUM SLOPE OF PAVERS TO BE 2% IN ALL DIRECTIONS.
3. REFER TO PAVER MANUFACTURER SPECIFICATIONS FOR FURTHER INFORMATION ON PAVER INSTALLATION.

L 1.2 - PAVER CONNECTION TO CONCRETE SIDEWALK & BUILDING
NTS



CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date:__________ Permit #______________
Signed: ______________________

PLANT SCHEDULE							
QTY	KEY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	HEIGHT	NOTES
TREES							
2	ZSE	*Zelkova serrata 'City Sprite'*	City Sprite Zelkova	B&B	2.5" CAL. MIN.		SINGLE TRUNK LIMB TO 4'
SHRUBS							
19	RCA	*Rhododendron indica 'George Tabor'*	George Tabor Azalea	CONT.	3 GAL. MIN		PINK BLOOMING
Note: if specified plant varieties are not available contractor must consult City of Wilmington forestry staff for approved alternates							

Approved Construction Plan

	Name	Date
Planning		
Public Utilities		
Traffic		
Fire		

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

GRAPHIC SCALE
30 0 15 30 60
1 inch = 30 ft.

WithersRavenel
Engineers | Planners | Surveyors
219 Station Road | Ste 101 | Wilmington, NC 28405 | t: 910.256.9277 | license #: C-0832 | www.withersravenel.com

NEW HANOVER COUNTY
DIVISION OF JUVENILE
JUSTICE FACILITY
138 NORTH 4TH STREET
WILMINGTON, NC

LANDSCAPE PLAN

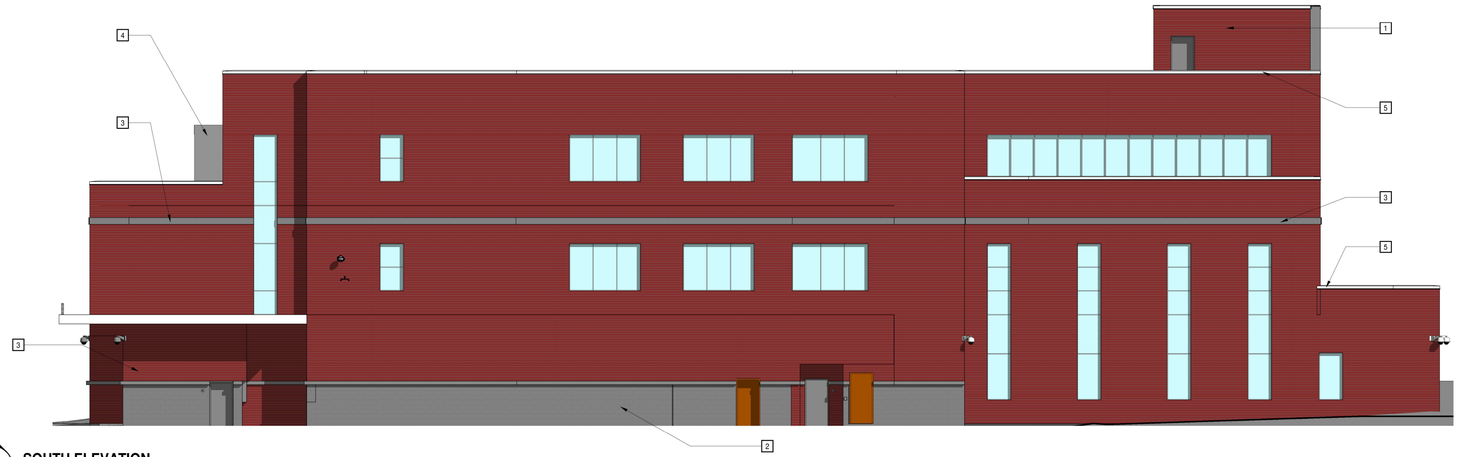
Job No. 03180736	Drawn By TG
Date 1126.18	Designer JSB

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1963 BRIAN A. RICHARDS
5/22/19

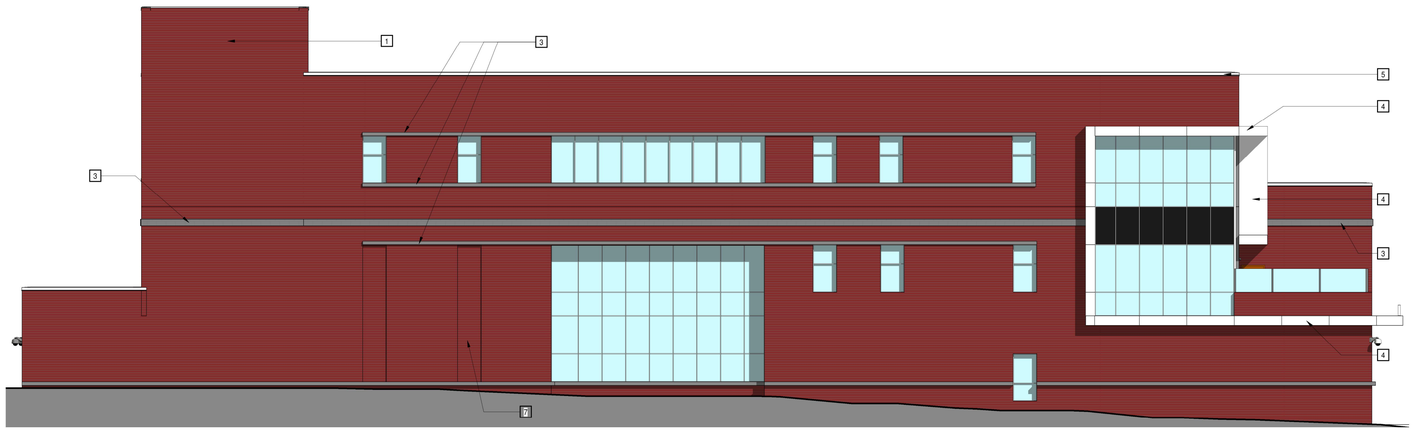
Revisions

Sheet No.
L 1.0

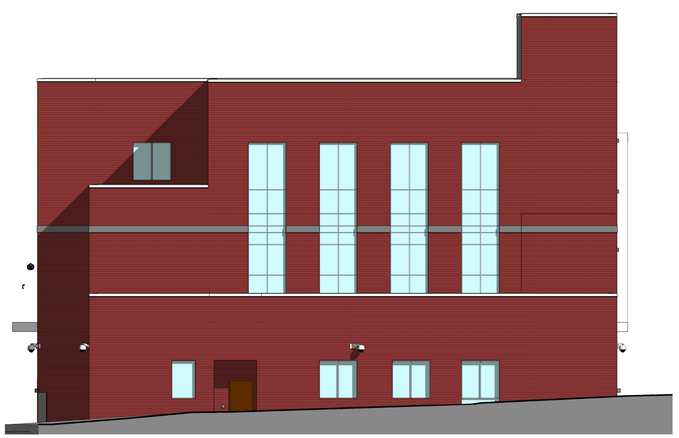
W:\18\18-0730\180736-New Hanover J. Courthouse\CAD\Const Drawings\L1.0 LANDSCAPE PLAN.dwg- Thursday, May 23, 2019 11:20:58 AM - WALTERS, ADAM



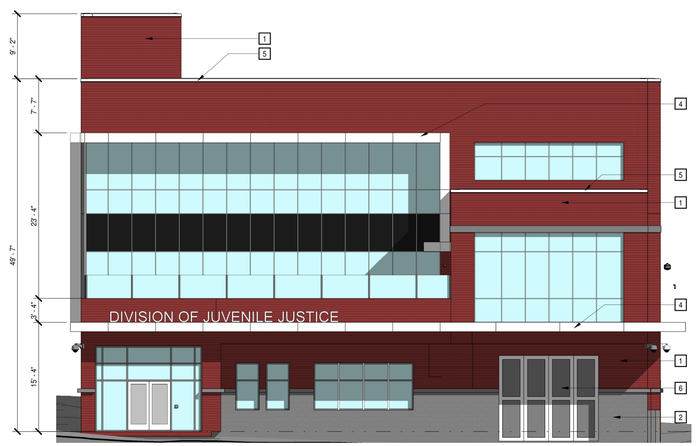
2 A2.1 A4.1 **SOUTH ELEVATION**
1/8" = 1'-0"



3 A2.1 A4.1 **NORTH ELEVATION**
1/8" = 1'-0"



4 A2.1 A4.1 **EAST ELEVATION**
1/8" = 1'-0"



1 A2.1 A4.1 **WEST ELEVATION**
1/8" = 1'-0"

GENERAL NOTES

A. GENERAL NOTE 1....

B. GENERAL NOTE 2....

BUILDING ELEVATION KEYNOTES

APPLIES TO DRAWINGS A4.1
REPRESENTED BY n

1. STANDARD BRICK RUNNING BOND - MATCH COLOR TO ADJACENT BUILDING
2. CAST STONE MASONRY - MATCH COLOR TO ADJACENT BUILDING
3. ARCHITECTURAL PRECAST BAND
4. COMPOSITE METAL PANEL SYSTEM - WHITE ENAMEL FINISH
5. METAL COPING- MATCH COMPOSITE METAL PANEL SYSTEM.
6. BI-FOLD DOOR WITH SPANDREL GLAZING
7. INSET BRICK PANEL

NOTES:

1. THESE RENDERINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY. SEE ARCHITECTURE PLANS FOR FINAL BUILDING DESIGN.
2. ALL GLAZING ON THE GROUND FLOOR ALONG NORTH 4TH STREET SHALL BE CLEAR AND NOT TINTED, EXCLUDING THE SALLY PORT GARAGE DOORS.

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date:_____ Permit #_____
Signed: _____

Approved Construction Plan

	Name	Date
Planning		
Public Utilities		
Traffic		
Fire		

WithersRavenel
Engineers | Planners | Surveyors
219 Station Road | Ste 101 | Wilmington, NC 28405 | t: 910.256.9277 | license #: C-0832 | www.withersravenel.com

NEW HANOVER COUNTY
DIVISION OF JUVENILE
JUSTICE FACILITY
138 NORTH 4TH STREET
WILMINGTON, NC

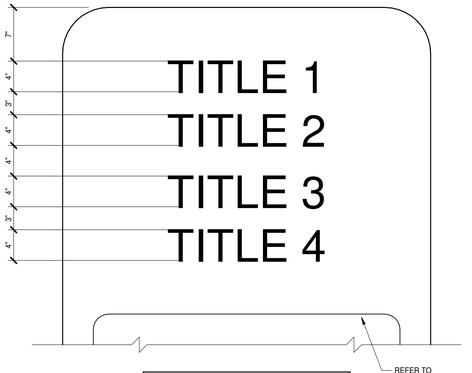
BUILDING ELEVATIONS PLAN

Job No.	03180736	Drawn By	TG
Date	1126.18	Designer	JSB

PRELIMINARY
NOT FOR CONSTRUCTION

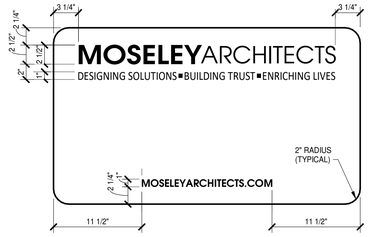
Revisions

Sheet No.
B1.0



TEXT LAYOUT ELEVATION

1 1/2" = 1'-0"



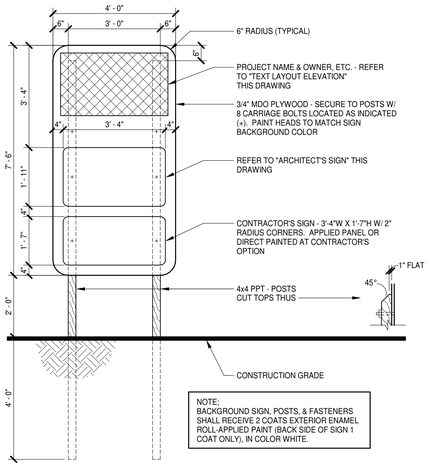
SIZE: 1'-11" VERTICAL x 3'-4" HORIZONTAL

NOTES:
"MOSELEY" TEXT IN LOGO AND WEB ADDRESS IS PMS 485. BULLETS ARE PMS 485, ALL OTHER TEXT AND BORDER IS PMS 432. BACKGROUND IS WHITE.

FONT FOR "DESIGNING SOLUTIONS BUILDING TRUST ENRICHING LIVES" TEXT IS CALIBRI, ALL OTHER TEXT IS AVANTGARDE FONT.

ARCHITECT'S SIGN

1 1/2" = 1'-0"



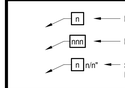
PROJECT SIGN ELEVATION

1/2" = 1'-0"

ARCHITECTURAL ABBREVIATIONS

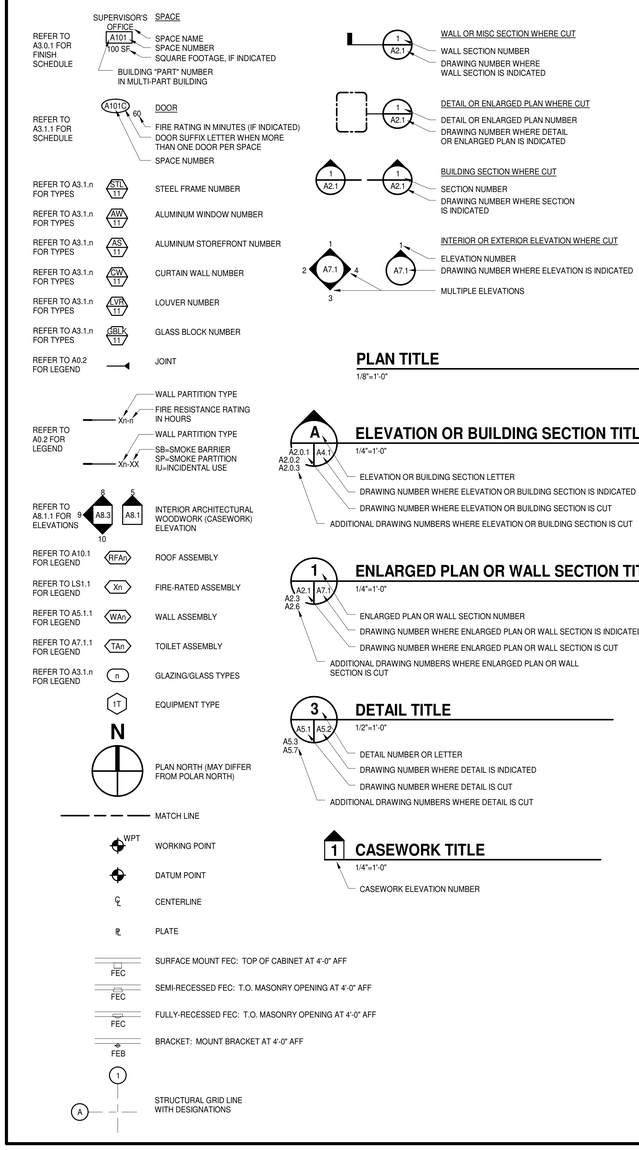
A-PT	ACCENT PAINT
ABS	AIR BARRIER SYSTEM
ABV	ABOVE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ACW	ALUMINUM CLAD WINDOW
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ARCHITECTURAL PRECAST CONCRETE
ARC	ABUSE RESISTANT COATING
AS	ALUMINUM STOREFRONT
AUTO	AUTOMATIC
AVG	AVERAGE
AW	ALUMINUM WINDOW
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BF	BARRIER FREE (ADA or A117.1)
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
BUR	BUILT-UP ROOF
C	CARPET
C-TILE	CARPET TILE
CAB	CABINET
CB	CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CFSF-NS	COLD FORMED STEEL FRAMING, NON-STRUCTURAL
CFSF-S	COLD FORMED STEEL FRAMING, STRUCTURAL
CG	CORNER GUARD
CI	CONTINUOUS INSULATION
CIPC	CAST IN PLACE CONCRETE
CJ	CONTROL JOINT
CL	CLOSET
CLG	CEILING
CLR	CLEAR
CM	CENTIMETER
CMBD	CEMENT BOARD
CMU	CONCRETE MASONRY UNIT
CMU-A	CONCRETE MASONRY UNIT - ACOUSTICAL
CMU-GF	CONCRETE MASONRY UNIT - GROUND FACE
CMU-GLZ	CONCRETE MASONRY UNIT - GLAZED
CMU-SPLF	CONCRETE MASONRY UNIT - SPLIT FACE
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONC-P	CONCRETE WITH PIGMENT
CONC-SLR	CONCRETE WITH SEALER / HARDENER
CONC-ST	CONCRETE WITH STAIN
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CSMU	CAST STONE MASONRY UNIT
CT	CERAMIC TILE
CTSK	COUNTERSINK, COUNTERSUNK
CU FT	CUBIC FEET / FOOT
CUST	CUSTODIAN / CUSTODIAL
CW	ALUMINUM CURTAIN WALL
CWFD	CEMENTITIOUS WOOD FIBER DECK
D	DEPTH/DEEP
DBL	DOUBLE
DEMO	DEMOLITION
DETE	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DHM	DETENTION HOLLOW METAL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DOOR LOUVER
DN	DOWN
DP	DAMPPROOFING
DR	DISPLAY RAIL
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
EA	EACH
EF	EXHAUST FAN
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAS	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXPC	EXPOSED CONSTRUCTION
EXT	EXTERIOR
FAAF	FLUID APPLIED ATHLETIC FLOORING
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FGL	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FIN	FINISHED
FLR	FLOOR
FLRG	FLOORING
FND	FOUNDATION
FO	FACE OF
FRM	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GYPSUM BOARD
GB-AR	GYPSUM BOARD - ABUSE RESISTANT
GB-IR	GYPSUM BOARD - IMPACT RESISTANT
GB-S	GYPSUM BOARD - SECURITY
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING
GL-BLK	GLASS BLOCK
GPM	GALLONS PER MINUTE
GRT	GROUT
GSFT	GLAZED STRUCTURAL FACING TILE
GT	GLASS TILE
GWT	GLAZED WALL TILE
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HBD	HARDBOARD
HDC	HOLD DOWN CLIPS
HDNR	HARDENER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATINGS
HPFP	HIGH PERFORMANCE FLOOR PAINT
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH, INCHES
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
IRWC	IMPACT RESISTANT WALL COVERING
IWB	INTERACTIVE WHITE BOARD
JAN	JANITOR
JCT	JUNCTION
JT	JOINT
L	LENGTH/LONG
LAB	LABORATORY
LAHJ	LOCAL AUTHORITY HAVING JURISDICTION
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LIN	LINOLEUM
LKR	LOCKER
LMC	LINEAR METAL CEILING
LPS	LAMINATE PANEL SYSTEM
LT	LIGHT
LVR	LOUVER
M	METER
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MCM	METAL COMPOSITE MATERIAL
MCP	METAL CEILING PANEL
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MIF	MULTICOLOR INTERIOR FINISHING
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING
MO	MASONRY OPENING
MPS	MANUAL PROJECTION SCREEN
MR	MAP RAIL
MT	MOUNT
MTD	MOUNTED
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPNG	OPENING
OPP HD	OPPOSITE HAND
OVHD	OVERHEAD
P-TILE	PORCELAIN TILE
PC	PRECAST
PERF	PERFORATED, PERFORATION(S)
PERIM	PERIMETER
PIP	POURED IN PLACE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLWD	PLASTIC LAMINATE WOOD
PLYWD	PLYWOOD
PNL	PANEL, PANELING
POLY	POLYETHYLENE
PPS	POWER PROJECTION SCREEN
PPT	PRESSURE- OR PRESERVATIVE-TREATED
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARE / PREPARATION
PS	PROJECTION SCREEN
PSB	PENCIL SHARPENER BLOCK
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTN	PARTITION
PTS	PNEUMATIC TUBE SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PVWC	PERFORATED VINYL WALL COVERING
QSM	QUARTZ SURFACING MATERIAL
QT	QUARRY TILE
QTY	QUANTITY
R	RISER, RADIUS
R/W	RIGHT OF WAY
RAD	RADIUS
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REFG	REFRIGERATOR
REINF	REINFORCING, REINFORCE(D)
REM	RECESSED ENTRY MAT
REQ'D	REQUIRED
RES	RESINOUS FLOORING
RFT	RUBBER FLOOR TILE
RH	RIGHT HAND
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RSF	RUBBER SHEET FLOORING
RSR	RESILIENT STAIR RISER
RST	RESILIENT STAIR TREAD
RT	RIGHT
RTU	ROOFTOP UNIT
SAB	SOUND ATTENUATION BLANKET
SC-PLK	SECURITY CEILING PLANK
SC-PNL	SECURITY CEILING PANEL
SCH	SCHEDULE
SF	SQUARE FEET / FOOT
SFRM	SPRAYED FIRE RESISTANT MATERIAL
SHM	SECURITY HOLLOW METAL
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SPF	SPRAYED POLYURETHANE FOAM
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FEET / FOOT
SRD	SECONDARY ROOF DRAIN
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STREET
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SWM	SECURITY WOVEN MESH / WOVEN ROD
SYM	SYMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
T.O.	TOP OF
TB	TACKBOARD
TEL	TELEPHONE
TERR-C	TERRAZZO CEMENTITIOUS
TERR-E	TERRAZZO EPOXY
TERR-R	TERRAZZO RUBBERIZED
THHD	THRESHOLD
THK	THICKNESS, THICK
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TACK STRIP
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED (INDICATED) OTHERWISE
VAT	VINYL ASBESTOS TILE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD
VERT	VERTICAL
VEST	VESTIBULE
VFCT	VINYL FREE COMPOSITION TILE
VFWC	VINYL FREE WALLCOVERING
VR	VAPOR RETARDER
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCP	WOOD CEILING PANEL
WD	WOOD
WDW	WINDOW
WP	WATERPROOFING
WPT	WORKING POINT
WSCT	WAINSCOT
WSF	WOOD SPORTS FLOORING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XPS	EXTRUDED POLYSTYRENE

KEYNOTES



1. KEYNOTES ARE GENERALLY ASSOCIATED WITH A SERIES OF DRAWINGS (e.g., A3.2.n, A5.1.n); THEREFORE KEYNOTE NUMBERS FROM SERIES TO SERIES WILL VARY (i.e., KEYNOTE NO. 1 IN THE A3.2.n SERIES WILL BE DIFFERENT FROM KEYNOTE NO. 1 IN THE A5.1.n SERIES).

ARCHITECTURAL GRAPHIC SYMBOL LEGEND



ARCHITECTURAL GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. ELEMENTS THAT ARE IDENTIFIED BY OTHER DISCIPLINES (e.g., CIVIL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL) ELSEWHERE WITHIN THE ARCHITECTURAL SERIES OF DRAWINGS AND/OR SPECIFICATIONS, OR IDENTIFIED OR COVERED BY DEFAULTS (e.g. SIZES, THICKNESS, SPACING, MATERIALS) IN THE SPECIFICATIONS MAY NOT BE ANNOTATED (NOTE OR KEYNOTED) ON THESE DRAWINGS.

C. ELEMENTS IDENTIFIED IN "LEGENDS" AND/OR "GENERAL NOTES" MAY NOT BE NOTED IN DETAILS, OR SECTIONS, AS THESE ELEMENTS ARE IDENTIFIED IN THE LEGENDS (e.g. FACE BRICK, CMU, WINDOWS)

D. REFER TO "ASSEMBLIES" FOR MATERIALS AND COMPONENTS THAT MAKE UP THAT PARTICULAR ASSEMBLY (e.g., EXTERIOR WALL ASSEMBLIES, ROOF ASSEMBLIES, AND FIRE-RATED ASSEMBLIES). ONCE A PARTICULAR ASSEMBLY HAS BEEN IDENTIFIED ON ONE DRAWING, THAT SAME ASSEMBLY GRAPHIC SHALL APPLY TO ALL OTHER SIMILAR LOCATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE THAT SAME ASSEMBLY AT THE SIMILAR LOCATION WHETHER THE ASSEMBLY GRAPHIC SYMBOL IS SHOWN OR NOT.

E. VERIFY ALL DIMENSIONS, INCLUDING DIMENSIONS ON STRUCTURAL DRAWINGS AND OTHER ARCHITECTURAL DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.

F. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL EQUIPMENT INDICATED TO BE MOUNTED OR OTHERWISE REQUIRED TO BE MOUNTED TO THE FLOOR. WHERE PADS ARE NOT SHOWN, PROVIDE 6" THICK CONCRETE PADS W/ 3/4" CHAMFERED EDGES (ALL SIDES). REINFORCE WITH MESH EQUIVALENT TO FLOOR SLAB REINFORCING REQUIREMENTS.

ARCHITECTURAL MATERIALS LEGEND

- EARTH
- POROUS FILL
- CONCRETE
- FACE BRICK
- SPLIT-FACE BLOCK
- CONCRETE MASONRY UNIT
- GROUTED SOLID CONCRETE MASONRY UNIT

NOTE: PROVIDE 100% SOLID, PLANT-CAST UNITS WHERE CORE HOLES WOULD BE VISIBLE WITHIN FINISH SPACE (E.G., WINDOW SILLS)

- ARCHITECTURAL PRECAST CONCRETE
- CAST STONE MASONRY
- RIGID INSULATION
- BATT INSULATION
- SPRAYED POLYURETHANE FOAM
- WOOD SHIM
- WOOD BLOCKING - CONTINUOUS
- FINISHED WOOD
- PLYWOOD
- GYPSUM BOARD / SHEATHING
- STONE

MOSELEYARCHITECTS
11430 NORTH COMMUNITY HOUSE ROAD GIBSON BUILDING SUITE 225 CHARLOTTE, NC 28277
PHONE (704) 540-3755 FAX (704) 540-3754
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MOSELEY ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION 50149 NORTH CAROLINA CHARLOTTE

DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA

NEW DJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

GENERAL ARCHITECTURAL INFORMATION

A0.1

5/22/2019 3:33:28 PM

TERMINATION GENERAL NOTES

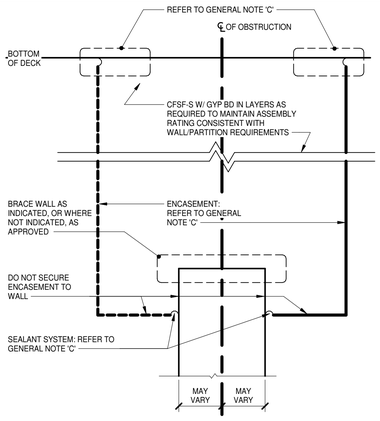
A. AT FIRE-, SMOKE-, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS. BRACE WALL AS INDICATED OR REQUIRED.

B. AT ALL OTHER WALLS INDICATED TO EXTEND TO UNDERSIDE OF FLOOR/ROOF DECK/CAP: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES). BRACE WALL AS INDICATED OR REQUIRED.

C. AT ALL WALLS PREVENTED FROM TERMINATING AT THE UNDERSIDE OF FLOOR/ROOF DECK BY OBSTRUCTIONS, COMPLY WITH THE FOLLOWING:

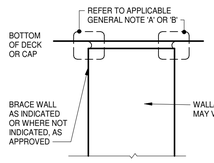
- AT FIRE-, SMOKE-, AND ACOUSTICALLY-RATED WALLS: ENCASE OBSTRUCTION(S) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.
- AT SECURITY WALLS: TERMINATE IN ACCORDANCE WITH SECURITY PARTITION REQUIREMENTS.
- AT OTHER WALLS: ENCASE OBSTRUCTION(S) ON ONE SIDE.
- SEAL ENCASEMENT TO WALL AND SEAL ENCASEMENT TO DECK IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.

TERMINATIONS

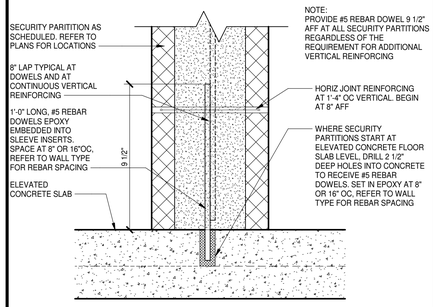


HEAD-OF-WALL TERMINATION @ OBSTRUCTION

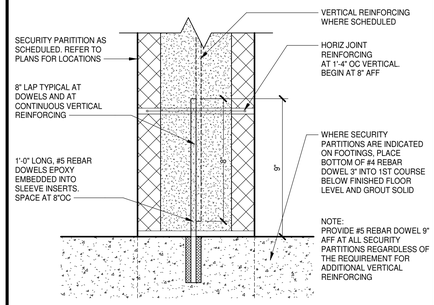
OBSTRUCTION MAY VARY (BEAM, JOIST, GIRDER, CHANNEL, DUCTWORK, PIPING)



HEAD-OF-WALL TERMINATION @ NON-OBSTRUCTION



SECURITY MASONRY WALLS ON ELEVATED CONCRETE FLOOR SLABS



SECURITY MASONRY WALLS ON CONCRETE SLAB ON GRADE

WALL JOINT GENERAL NOTES

A. DRAWINGS MAY INDICATE AESTHETIC AND FUNCTIONAL WALL JOINTS.

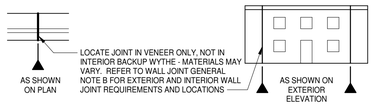
B. REFER TO SPECIFICATIONS AND REFERENCED STANDARDS FOR ADDITIONAL WALL JOINT REQUIREMENTS.
- EXTERIOR: LOCATE AS SHOWN ON DRAWINGS
- INTERIOR: LOCATE PER DRAWINGS, IF SHOWN, AND WHERE NOT SHOWN, LOCATE IN ACCORDANCE WITH SPECIFICATIONS.
- DO NOT ALIGN EXTERIOR JOINTS W/ INTERIOR, BACK-UP WYTHE JOINTS, UNLESS SPECIFICALLY SHOWN TO ALIGN

C. WALLS AND JOINT TYPES/DETAILS ARE DIAGRAMMATIC. VERIFY ACTUAL FIELD CONDITIONS AND ADJUST JOINT TYPES/DETAILS IN ACCORDANCE WITH REFERENCED STANDARDS.

D. PROVIDE TESTED JOINT ASSEMBLIES AT FIRE-, SMOKE-, AND ACOUSTICAL-RATED WALLS.

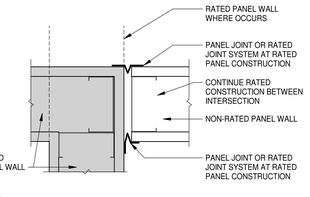
E. WHEN USED HEREIN "RATED" MEANS: FIRE, SMOKE, AND/OR ACOUSTICAL.

EXTERIOR WALL JOINT GRAPHIC SYMBOLS



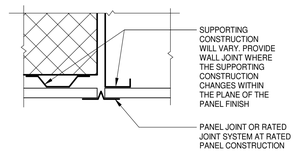
WALL JOINTS

RATED/ NON-RATED CFSF/ PANELS

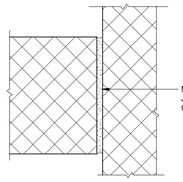


NOTE:
RATED WALL SHADED FOR CLARITY THIS DETAIL

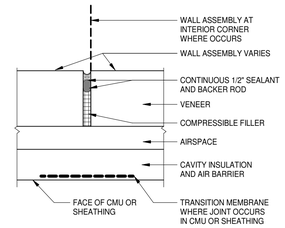
CMU/ CFSF



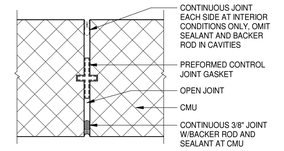
EQUAL BEARING CMU INTERSECTIONS



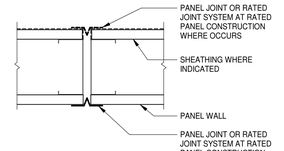
VENEER/ CAVITY



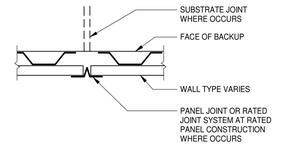
CMU



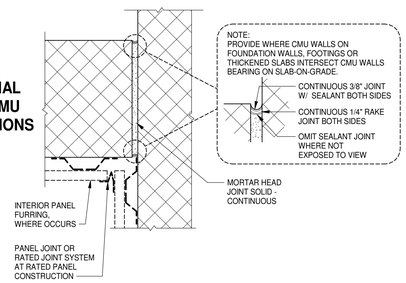
CFSF/ PANELS



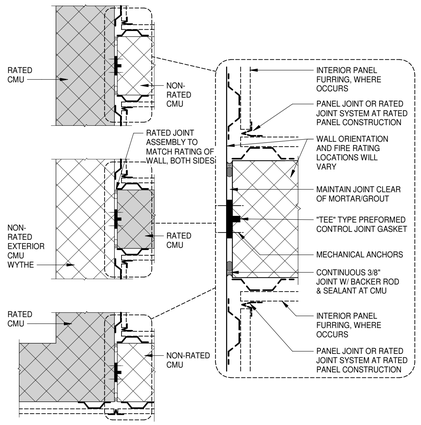
PANEL



DIFFERENTIAL BEARING CMU INTERSECTIONS



RATED/ NON-RATED CMU



NOTE:
RATED WALLS SHADED FOR CLARITY THIS DETAIL

WALL/PARTITION TYPE GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. EXTEND WALL/PARTITION ASSEMBLY COMPONENTS FULL HEIGHT OF ASSEMBLY.

C. ALL INTERIOR MASONRY UNIT PARTITIONS: M1 UNLESS INDICATED OTHERWISE.

D. ALL INTERIOR CFSF PANEL PARTITIONS: P1 UNLESS INDICATED OTHERWISE.

E. REFER TO STRUCTURAL **AND DETENTION** DRAWINGS AND RELATED SPECIFICATIONS FOR SOLID MASONRY, GROUTING, AND REINFORCEMENT REQUIREMENTS INCLUDING BUT MAY NOT BE LIMITED TO:
- MASONRY WALLS/PARTITIONS
- LINTELS
- LINTEL BEARING CONDITIONS
- BOND BEAMS
- SHELF BEARING CONDITIONS
- STRUCTURAL REINFORCING REQUIREMENTS
- CHANGES IN WYTHE

F. THE TERMS "WALL" AND "PARTITION" MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS.

G. EXTEND ALL FIRE-, SMOKE-, INCIDENTAL USE-, AND ACOUSTICAL-RATED WALLS/PARTITIONS TO UNDERSIDE OF FLOOR DECK, ROOF DECK, STRUCTURAL ELEMENT ENCASEMENT OR SOLID CAP ABOVE.
- SEAL AND TERMINATE IN ACCORDANCE WITH JOINT SYSTEM TESTED ASSEMBLIES FOR RESPECTIVE TYPE OF WALLS/PARTITIONS.

H. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE:
- EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE.

I. DO NOT CONNECT TIES, ANCHORS, OR REINFORCING TO SINGLE CANTILEVERED FIRE WALL OR BETWEEN DOUBLE FIRE WALLS.

J. SEAL AROUND ALL PENETRATIONS.

K. COMPLY WITH TERMINATION, WALL JOINT, AND MISCELLANEOUS DETAILS FOR THOSE CONDITIONS WHERE APPLICABLE. COMPLY WITH REFERENCED STANDARDS WHERE DETAILS ARE NOT IDENTIFIED IN THE DRAWINGS.

L. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.

M. FINISHED SPACES: PROVIDE CHASES AROUND ALL EXPOSED VERTICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DUCTWORK, PIPING, AND CONDUIT, UNLESS COMPONENTS ARE SPECIFICALLY INDICATED TO REMAIN EXPOSED. IF NOT OTHERWISE INDICATED, PROVIDE ***M1*** CHASE CONSTRUCTION.
- HOLD CHASES TIGHT TO COMPONENTS ALLOWING FOR ACCESS, INSULATION, AND TOLERANCES.
- EXTEND CHASES FROM FLOOR TO 4 INCHES MINIMUM ABOVE FINISH CEILING OR IF NO CEILING IS INDICATED, EXTEND CHASES TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR SOLID CAP ABOVE AND TERMINATE ACCORDINGLY.

N. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.

MASONRY UNIT WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
M1	--	--	7 5/8" — 8" CMU
M1-1	1 HOUR - UL U914	--	
M2	--	--	5 5/8" — 6" CMU

PANEL WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P1	--	STC 44	4 7/8" — 3" SAB; 3 5/8" CFSF-NS; 5/8" GYPSUM BOARD, BOTH SIDES
P2	--	STC 38 +/-	4 1/4" — 3" SAB; 3 5/8" CFSF-NS; 5/8" GYPSUM BOARD
P3	--	STC 51	6 5/8" — 6" SAB; 6" CSFS-NS; 5/8" GYPSUM BOARD
P4	--	FURRING AT INTERIOR CMU	1 1/2" — 5/8" GYPSUM BOARD; 7/8" CFSF-NS FURRING

SECURITY WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
S1	--	--	PERIMETER SECURITY WALL - 8" CMU FULLY GROUTED W/ #4 VERTICAL REBARS @ 8" OC
S1-1	--	--	SAME AS S-1, BUT ONE-HOUR FIRE-RATED ASSEMBLY
S2	--	--	INTERIOR SECURITY WALL - 8" CMU FULLY GROUTED W/ #4 VERTICAL REBARS @ 1'-4" OC

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MOSELEY ARCHITECTS PROFESSIONAL CORPORATION REGISTERED ARCHITECTS 50149 NORTH CAROLINA CHARLOTTE

DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990
DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

WALL/PARTITION TYPES, WALL JOINTS AND TERMINATIONS

A0.2

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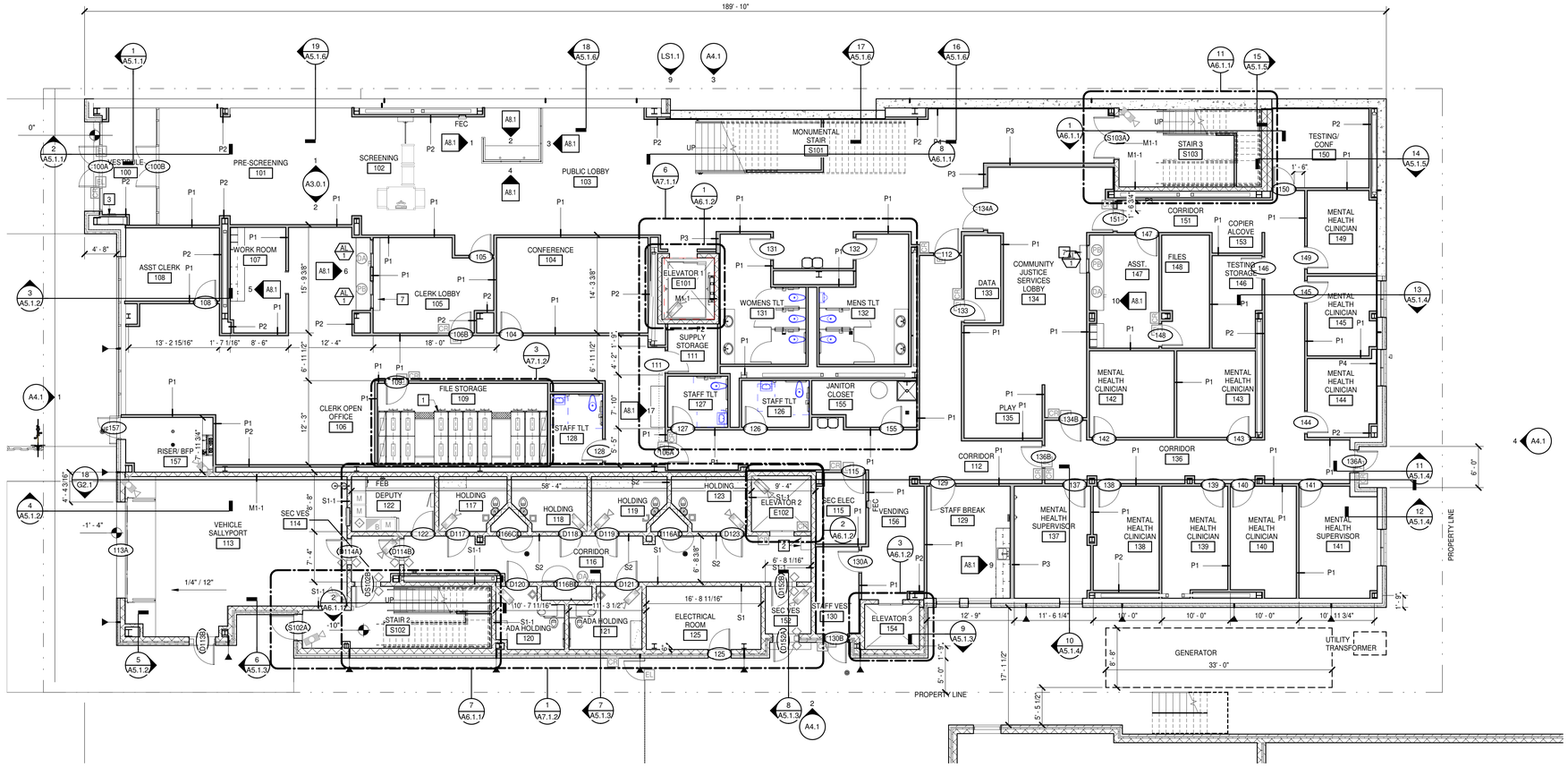
FLOOR PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A2.1 - A2.3

1	MANUAL MOBILE STORAGE SHELVING - REFER TO SPECIFICATION 105626.13
2	5-TIER LOCKERS - 12" W X 18"D X 72"H
3	RECESSED MOUNTED, VERTICAL USPS MAILBOX - MOUNT AT 28" AFF TO BOTTOM OF UNIT. REFER TO SPECIFICATION 105500.13.
4	GB PARTITION 36"H WITH 1/2" CLEAR ANODIZED ALUMINUM REVEAL AND A 6" WIDE BY 1/2" THICK DOUBLE-EASED EDGE SSM CAP
5	MANUAL ROLLER SHADE
5.a	MANUAL ROLLER SHADE IN WINDOW ABOVE
6	12' x 4' HIGH MARKER BOARD
7	12" DEEP QUARTZ WRITING SURFACE BELOW TRANSACTION WINDOW. TOP OF COUNTER AT 34" A.F.F. - PROVIDE HIDDEN COUNTERTOP SUPPORTS SPECIFIED IN SPECIFICATION 064023.



N

FIRST FLOOR

1/8" = 1'-0"

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DANIEL R. MAGE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE, NC

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

FIRST FLOOR PLAN

A2.1

FLOOR PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A2.1 - A2.3

1	MANUAL MOBILE STORAGE SHELVING - REFER TO SPECIFICATION 105626.13
2	5-TIER LOCKERS - 12" W X 18"D X 72"H
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4	GB PARTITION 36"H WITH 1/2" CLEAR ANODIZED ALUMINUM REVEAL AND A 6" WIDE BY 1/2" THICK DOUBLE-EASED EDGE SSM CAP
5	MANUAL ROLLER SHADE
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6	12' x 4' HIGH MARKER BOARD
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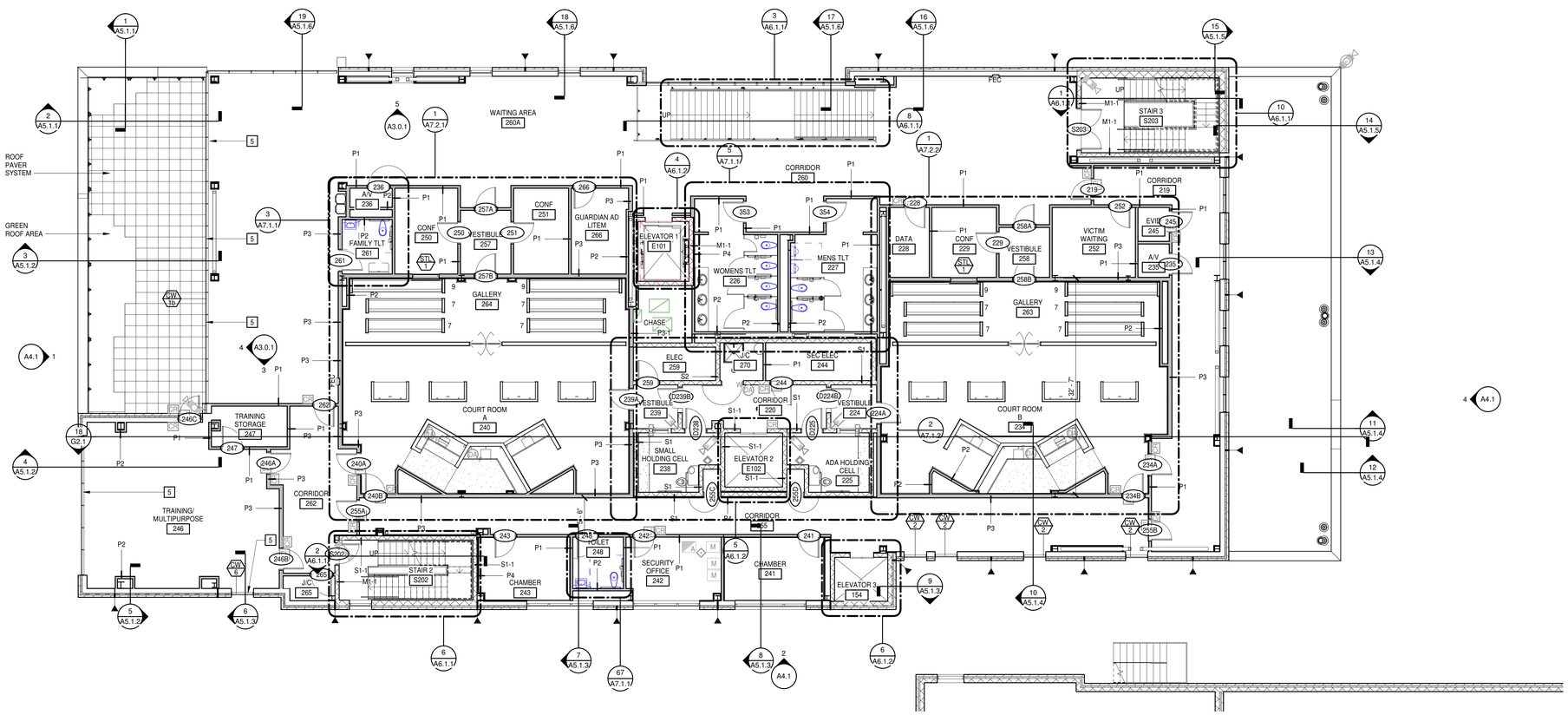

N

SECOND FLOOR

1/8" = 1'-0"

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NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

SECOND FLOOR PLAN

A2.2

FLOOR PLAN KEYNOTES

REPRESENTED BY [n]

APPLIES TO DRAWINGS A2.1 - A2.3

1	MANUAL MOBILE STORAGE SHELVING - REFER TO SPECIFICATION 105626.13
2	5-TIER LOCKERS - 12" W X 18"D X 72"H
3	RECESSED MOUNTED, VERTICAL USPS MAILBOX - MOUNT AT 28" AFF TO BOTTOM OF UNIT. REFER TO SPECIFICATION 105500.13.
4	GB PARTITION 36"H WITH 1/2" CLEAR ANODIZED ALUMINUM REVEAL AND A 6" WIDE BY 1/2" THICK DOUBLE-EASED EDGE SSM CAP
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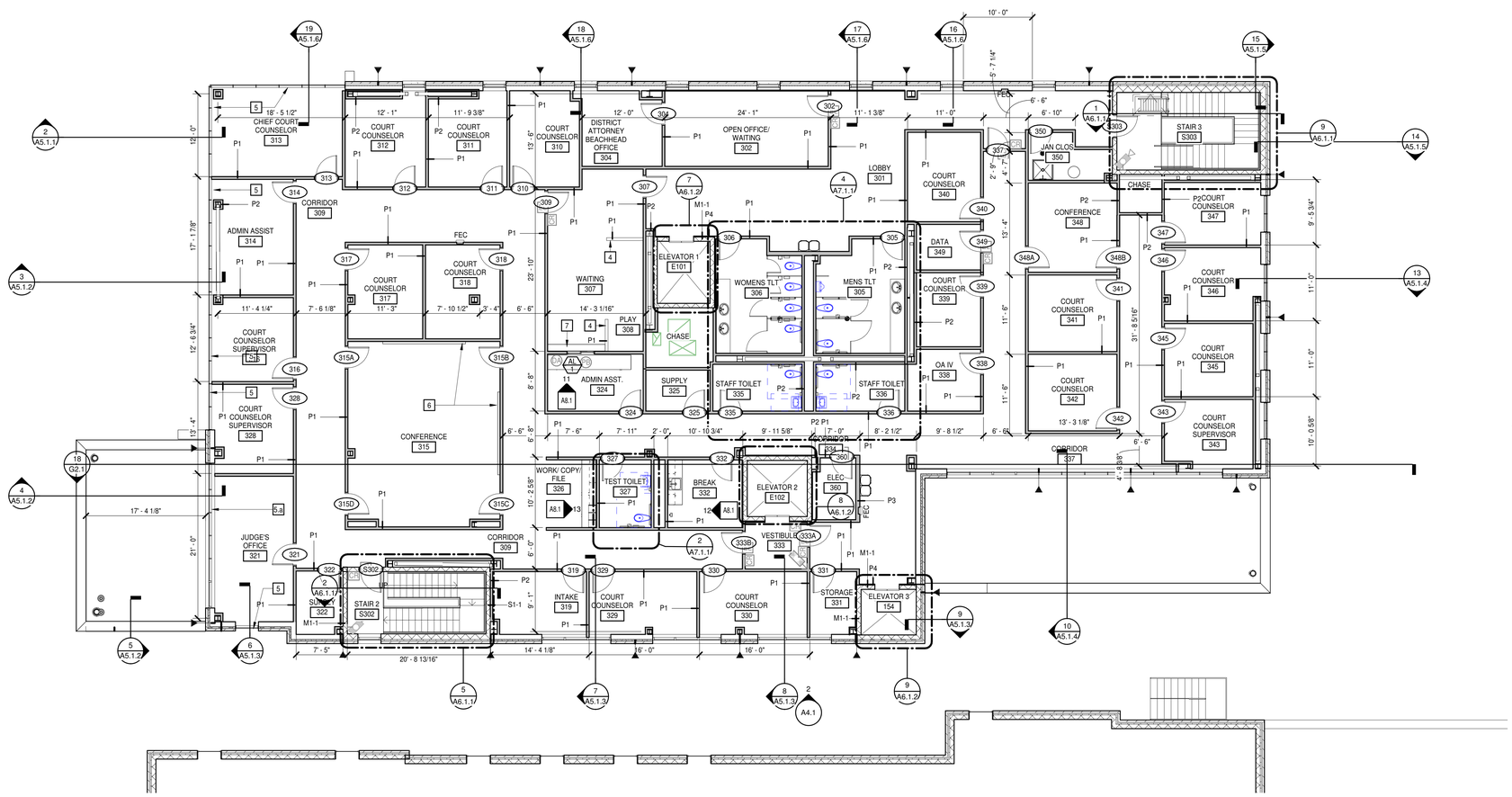

N

THIRD FLOOR

1/8" = 1'-0"

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NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

THIRD FLOOR PLAN

A2.3

FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	WAINSCOT	CEILING	NOTES
100	VESTIBULE	C-TILE-C	RB	PT	PT	PT	PT	-	ACP-B	-
101	PRE-SCREENING	TERR-E1, E2	TERR-E1	PT	PT	PT	PT	IRWC	ACP-A/GB-PT	-
102	SCREENING	TERR-E1, E2	TERR-E1	PT/IRWC	PT	PT	PT	-	ACP-A/GB-PT	8
103	PUBLIC LOBBY	TERR-E1, E2	TERR-E1	PT	PT	PT	PT	IRWC	ACP-A/GB-PT	-
104	CONFERENCE	C-TILE-B	RB	A-PT	PT	PT	PT	IRWC	ACP-B	9
105	CLERK LOBBY	C-TILE-A	RB	PT	PT	PT	A-PT	IRWC	ACP-B	9
106	CLERK OPEN OFFICE	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
107	WORK ROOM	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
108	ASST CLERK	C-TILE-B	RB	A-PT	PT	PT	PT	-	ACP-B	-
109	FILE STORAGE	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	7
111	SUPPLY STORAGE	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
112	CORRIDOR	TERR-E1	TERR-E1	PT	PT	PT	PT	-	ACP-B	-
113	VEHICLE SALLYPORT	CONC-SLR	-	PT	PT	PT	PT	-	EXPC-PT	-
114	SEC VES	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	GB-PT	-
115	SEC ELEC	CONC-SLR	RB	EPX PT	EPX PT	EPX PT	EPX PT	-	GB-PT	-
116	CORRIDOR	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	GB-PT	-
117	HOLDING	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	CONC PT	-
118	HOLDING	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	CONC PT	-
119	HOLDING	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	CONC PT	-
120	ADA HOLDING	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	CONC PT	-
121	ADA HOLDING	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	CONC PT	-
122	DEPUTY	CONC-SLR	RB	PT	PT	PT	PT	-	ACP-B	-
123	HOLDING	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	CONC PT	-
125	ELECTRICAL ROOM	CONC-SLR	-	-	-	-	-	-	EXPC	-
126	STAFF TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
127	STAFF TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
128	STAFF TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
129	STAFF BREAK	VT	RB	PT	PT	PT	PT	-	ACP-B	-
130	STAFF VEST	C-TILE-C	RB	PT	PT	PT	PT	-	GB-PT	-
131	WOMENS TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
132	MENS TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
133	DATA	RFT	RB	PT	PT	PT	PT	-	EXPC-PT	-
134	COMMUNITY JUSTICE SERVICES LOBBY	C-TILE-A	RB	A-PT	PT	PT	PT	IRWC	ACP-B	9
135	PLAY	C-TILE-A	RB	-	PT	PT	A-PT	IRWC	ACP-B	9
136	CORRIDOR	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
137	MENTAL HEALTH SUPERVISOR	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
138	MENTAL HEALTH CLINICIAN	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
139	MENTAL HEALTH CLINICIAN	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
140	MENTAL HEALTH CLINICIAN	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
141	MENTAL HEALTH SUPERVISOR	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
142	MENTAL HEALTH CLINICIAN	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
143	MENTAL HEALTH CLINICIAN	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
144	MENTAL HEALTH CLINICIAN	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
145	MENTAL HEALTH CLINICIAN	C-TILE-B	RB	PT	PT	A-PT	PT	-	ACP-B	-
146	TESTING STORAGE	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
147	ASST.	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
148	FILES	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
149	MENTAL HEALTH CLINICIAN	C-TILE-B	RB	A-PT	PT	PT	PT	-	ACP-B	-
150	TESTING/ CONF	C-TILE-B	RB	A-PT	PT	PT	PT	-	ACP-B	-
151	CORRIDOR	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
152	SEC VES	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	GB-PT	-
153	COPIER ALCOVE	C-TILE-B	RB	-	PT	PT	PT	-	ACP-B	-
154	ELEVATOR 3	TERR-E1	SS	-	-	-	-	-	-	2
155	JANITOR CLOSET	CONC-SLR	RB	PT	PT	PT	PT	-	GB-PT	-
156	VENDING	TERR-E1	TERR-E1	PT	PT	PT	PT	-	ACP-B	-
157	RISER/ BFP	CONC-SLR	RB	PT	PT	PT	PT	-	EXPC	-
219	CORRIDOR	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
220	CORRIDOR	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	GB-PT	-
224	VESTIBULE	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	GB-PT	-
225	ADA HOLDING CELL	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	CONC PT	-
226	WOMENS TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
227	MENS TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
228	DATA	RFT	RB	PT	PT	PT	PT	-	EXPC-PT	-
229	CONF	C-TILE-B	RB	PT	PT	PT	PT	IRWC	ACP-B	9
233	CHASE	CONC-SLR	-	-	-	-	-	-	EXPC	-
234	COURT ROOM B	C-TILE-B	WD	PT	PT	PT	PT	A-PT	ACP-A/GB-PT	4
235	A/V	CONC-SLR	RB	PT	PT	PT	PT	-	ACP-B	-
236	A/V	CONC-SLR	RB	PT	PT	PT	PT	-	GB-PT	-
237	CHASE	CONC-SLR	-	-	-	-	-	-	EXPC	-
238	SMALL HOLDING CELL	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	CONC PT	-
239	VESTIBULE	CONC-SLR	EPX PT	EPX PT	EPX PT	EPX PT	EPX PT	-	GB-PT	-
240	COURT ROOM A	C-TILE-B	WD	PT	PT	PT	PT	A-PT	ACP-A/GB-PT	4
241	CHAMBER	C-TILE-B	WD	PT	PT	PT	A-PT	-	ACP-B	-
242	SECURITY OFFICE	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
243	CHAMBER	C-TILE-B	WD	PT	A-PT	PT	PT	-	ACP-B	-
244	SEC ELEC	CONC-SLR	RB	PT	PT	PT	PT	-	GB-PT	-
245	EVID	CONC-SLR	RB	PT	PT	PT	PT	-	ACP-B	-
246	TRAINING/ MULTIPURPOSE	C-TILE-A	RB	PT	PT	A-PT	PT	IRWC	ACP-A/GB-PT	9
247	TRAINING STORAGE	C-TILE-A	RB	PT	PT	PT	PT	-	ACP-B	-
248	TOILET	P-TILE	P-TILE	P-TILE	P-TILE	P-TILE	P-TILE	-	GB-PT	-
250	CONF	C-TILE-B	RB	PT	PT	PT	PT	IRWC	ACP-B	9
251	CONF	C-TILE-B	RB	PT	PT	PT	PT	IRWC	ACP-B	9
252	VICTIM WAITING	C-TILE-B	RB	PT	PT	PT	A-PT	IRWC	ACP-B	9
255	CORRIDOR	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
257	VESTIBULE	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-A	-
258	VESTIBULE	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-A	-
259	ELEC	CONC-SLR	RB	PT	PT	PT	PT	-	GB-PT	-
260	CORRIDOR	TERR-E1, E2	TERR-E1	PT	PT	PT	PT	IRWC	ACP-A/GB-PT	9
260A	WAITING AREA	C-TILE-A	TERR-E	PT/IRWC	PT	PT/IRWC	PT	-	ACP-A/GB-PT	8
261	FAMILY TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
262	CORRIDOR	TERR-E1	TERR-E1	PT	PT	PT	PT	-	ACP-A	-
263	GALLERY	C-TILE-B	WD	PT	PT	PT	PT	A-PT	ACP-A/GB-PT	4
264	GALLERY	C-TILE-B	WD	PT	PT	PT	PT	A-PT	ACP-A/GB-PT	4
265	J/C	CONC-SLR	RB	PT	PT	PT	PT	-	GB-PT	-
266	GUARDIAN AD LITEM	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
270	J/C	CONC-SLR	RB	EPX PT	EPX PT	EPX PT	EPX PT	-	GB-PT	-
301	LOBBY	TERR-E	TERR-E1	PT	PT	PT	PT	-	ACP-A	-
302	OPEN OFFICE/ WAITING	C-TILE-A	RB	PT	PT	A-PT	PT	-	ACP-B	-
304	DISTRICT ATTORNEY BEACHHEAD OFFICE	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
305	MENS TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
306	WOMENS TLT	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
307	WAITING	C-TILE-A	RB	PT	PT	PT	A-PT	IRWC	ACP-B	9
308	PLAY	C-TILE-A	RB	PT	PT	PT	PT	IRWC	ACP-B	9
309	CORRIDOR	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
310	COURT COUNSELOR	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
311	COURT COUNSELOR	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
312	COURT COUNSELOR	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
313	CHIEF COURT COUNSELOR	C-TILE-B	RB	PT	PT	A-PT	PT	-	ACP-B	-
314	ADMIN ASSIST	C-TILE-B	RB	PT	PT	A-PT	PT	-	ACP-B	-
315	CONFERENCE	C-TILE-B	RB	A-PT	PT	PT	PT	IRWC	ACP-B	9
316	COURT COUNSELOR SUPERVISOR	C-TILE-B	RB	A-PT	PT	PT	PT	-	ACP-B	-
317	COURT COUNSELOR	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
318	COURT COUNSELOR	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
319	INTAKE	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
321	JUDGE'S OFFICE	C-TILE-B	RB	A-PT	PT	PT	PT	-	ACP-B	-
322	SUPPLY	CONC-SLR	RB	PT	PT	PT	PT	-	ACP-B	-
324	ADMIN ASST.	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
325	SUPPLY	VT	RB	A-PT	PT	PT	PT	-	ACP-B	-
326	WORK/ COPY/ FILE	C-TILE-B	RB	PT	A-PT	PT	-	-	ACP-B	-
327	TEST TOILET	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
328	COURT COUNSELOR SUPERVISOR	C-TILE-B	RB	PT	PT	A-PT	PT	-	ACP-B	-
329	COURT COUNSELOR	C-TILE-B	RB	PT	PT	PT	A-PT	-	ACP-B	-
330	COURT COUNSELOR	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
331	STORAGE	CONC-SLR	RB	PT	PT	PT	PT	-	ACP-B	-
332	BREAK	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
333	VESTIBULE	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
334	CORRIDOR	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
335	STAFF TOILET	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
336	STAFF TOILET	P-TILE	P-TILE	EPX PT	EPX PT	EPX PT	EPX PT	P-TILE/GWT	GB-PT	1
337	CORRIDOR	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
338	OA IV	C-TILE-A	RB	PT	PT	A-PT	PT	-	ACP-B	-
339	COURT COUNSELOR	C-TILE-B	RB	PT	PT	A-PT	PT	-	ACP-B	-
340	COURT COUNSELOR	C-TILE-B	RB	PT	PT	PT	PT	-	ACP-B	-
341	COURT COUNSELOR	C-TILE-B	RB	PT	PT	A-PT	PT	-	ACP-B	-
342	COURT COUNSELOR	C-TILE-B	RB	A-PT	PT	PT	PT	-	ACP-B	-
343	COURT COUNSELOR SUPERVISOR	C-TILE-B	RB	PT	A-PT	PT	PT	-	ACP-B	-
345	COURT COUNSELOR	C-TILE-B	RB	PT	PT	A-PT	PT	-	ACP-B	-
346	COURT COUNSELOR	C-TILE-B	RB	PT	PT	A-PT	PT	-	ACP-B	-

FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	WAINSCOT	CEILING	NOTES
347	COURT COUNSELOR	C-TILE-B	RB	A-PT	PT	PT	PT	-	ACP-B	-
348	CONFERENCE	C-TILE-B	RB	A-PT	PT	PT	PT	-	ACP-B	-
349	DATA	RFT	RB	PT	PT	PT	PT	-	EXPC-PT	-
350	JAN CLOS	CONC-SLR	RB	EPX PT	EPX PT	EPX PT	EPX PT	-	ACP-B	-
360	ELEC	CONC-SLR	RB	PT	PT	PT	PT	-	GB-PT	-
401	MECHANICAL PENTHOUSE	CONC-SLR	-	PT	PT	PT	PT	-	EXPC	-
E101	ELEVATOR 1	TERR-E1	SS	-	-	-	-	-	-	2
E102	ELEVATOR 2	TERR-E1	-	SS	SS	SS	SS	-	-	2
S101	MONUMENTAL STAIR	TERR-E1	-	A-PT	-	-	-	-	-	-
S102	STAIR 2	CONC-SLR	RB	PT	PT	PT	PT	-	-	-
S103	STAIR 3	CONC-SLR	RB	PT	PT	PT	PT	-	-	-
S201	MONUMENTAL STAIR	TERR-E1	-	A-PT	-	-	-	-	ACP-A/GB-PT	-
S202	STAIR 2	CONC-SLR	RB	PT	PT	PT	PT	-	-	-
S203	STAIR 3	CONC-SLR	RB	PT	PT	PT	PT	-	-	-
S302	STAIR 2	CONC-SLR	RB	PT	PT	PT	PT	-	GB-PT	-
S303	STAIR 3	CONC-SLR	RB	PT	PT	PT	PT	-	GB-PT	-

NOTE:

1. P-TILE WAINSCOT TO 7'-0" AFF. EPX PT FROM TOP OF TILE TO CEILING. REFER TO ELEVATION 1/A3.0.2 FOR PATTERN.
2. REFER TO SPECIFICATION 142100 FOR ELEVATOR CAB FINISHES.
3. TREADS, RISERS, AND INTERMEDIATE LANDINGS SHALL BE TERRAZZO.
4. WD CHAIR RAIL. MOUNT TOP OF RAIL AT 34" AFF. REFER TO SECTION 3/A8.2.3.
5. WD CROWN MOLDING AROUND PERIMETER OF ROOM AND AT ACP CEILING COFFER. REFER TO SECTION 4/A8.2.3.
6. ACOUSTIC WALL PANELS - REFER TO COURTROOM ELEVATIONS.
7. CONTINUE C-TILE UNTO RAISED FLOORING AT MANUAL MOBILE STORAGE SHELVING. C-TILE AT RAISED FLOORING SHALL BE CONTRACTOR PROVIDED/VENDOR INSTALLED.
8. FULL-HEIGHT IRWC - REFER TO DRAWINGS A3.0.1, A3.0.2, AND A3.0.3 FOR EXTENT.
9. IRWC WAINSCOT TO 36" AFF.
10. WD BASE - REFER TO SECTIONS ON DRAWING A8.2.3.

FINISH SCHEDULE GENERAL NOTES

A. FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.

B. PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.

C. CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.

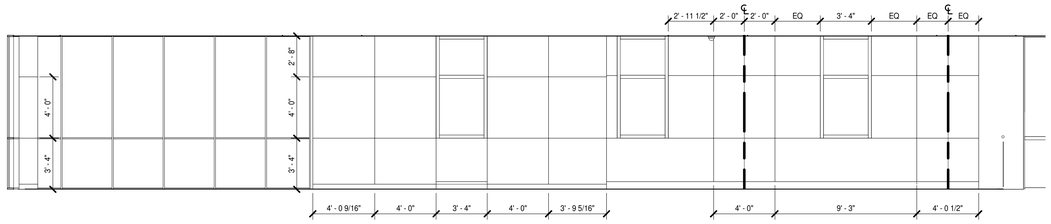
D. DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN" NORTH ORIENTATION.

E. BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.

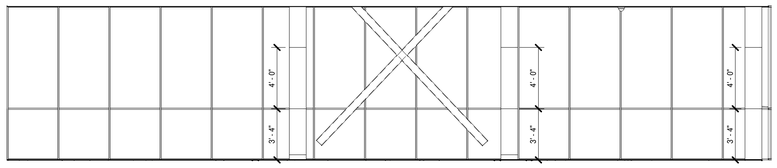
F. PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION.

G. "EPX PT" INDICATED FOR BASE SHALL BE THE FIRST COURSE OF CMU PAINTED A CONTRASTING COLOR THAN THE WALL.

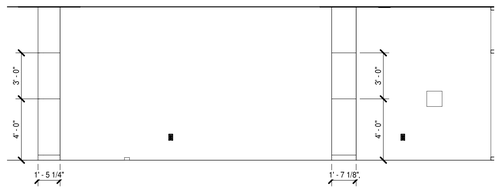
H. PROVIDE CORNERGUARDS AT ALL OUTSIDE CORNERS OF GYPSUM BOARD WALLS.



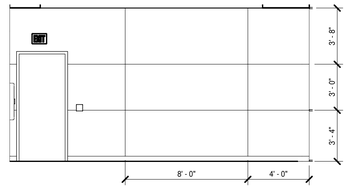
5 A2.2 A3.0.1 **WAITING 260A - NORTH** 1/4" = 1'-0"



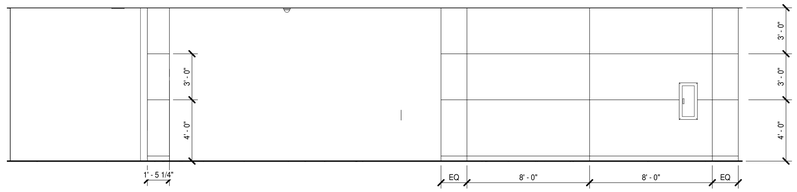
4 A2.2 A3.0.1 **WAITING 260A - WEST** 1/4" = 1'-0"



2 A2.1 A3.0.1 **PRE-SCREENING 101 - INT ELEV** 1/4" = 1'-0"



3 A2.2 A3.0.1 **WAITING 260A - SOUTH** 1/4" = 1'-0"



1 A2.1 A3.0.1 **SCREENING 102 - NORTH** 1/4" = 1'-0"

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MOSELEY ARCHITECTS PROFESSIONAL CORPORATION REGISTERED ARCHITECTS 50149 NORTH CAROLINA CHARLOTTE

DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA DANIEL R. MACE

NEW DJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

FINISH SCHEDULE

A3.0.1

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FINISH PATTERN GENERAL NOTES

A. DRAWING INDICATES PATTERNED AREAS ONLY. REFER TO THE ROOM FINISH SCHEDULE ON DRAWING A3.0.1 FOR A COMPLETE LIST OF FINISHES AND LOCATIONS.

B. P-TILE WALL PATTERN ON DRAWING A3.0.2 APPLY TO DRAWINGS A3.0.2-A3.0.3.

C. P-TILE WALL PATTERN ON DRAWING A3.0.2 IS TYPICAL. PATTERN WILL DIFFER SLIGHTLY BY LOCATION.

D. DIVIDER STRIP / CONTROL JOINT TOP-SECTION WIDTHS SHALL BE AS FOLLOWS:
- BORDER OF TERR-E2 = 1/4"
- ALL OTHER LOCATIONS = 1/16"

E. COORDINATE JOINT LOCATIONS IN FIELD.

F. PROVIDE EPOXY TERRAZZO JOINT DETAIL 1/A3.0.3 AT CRACKS GREATER THAN 1/16".

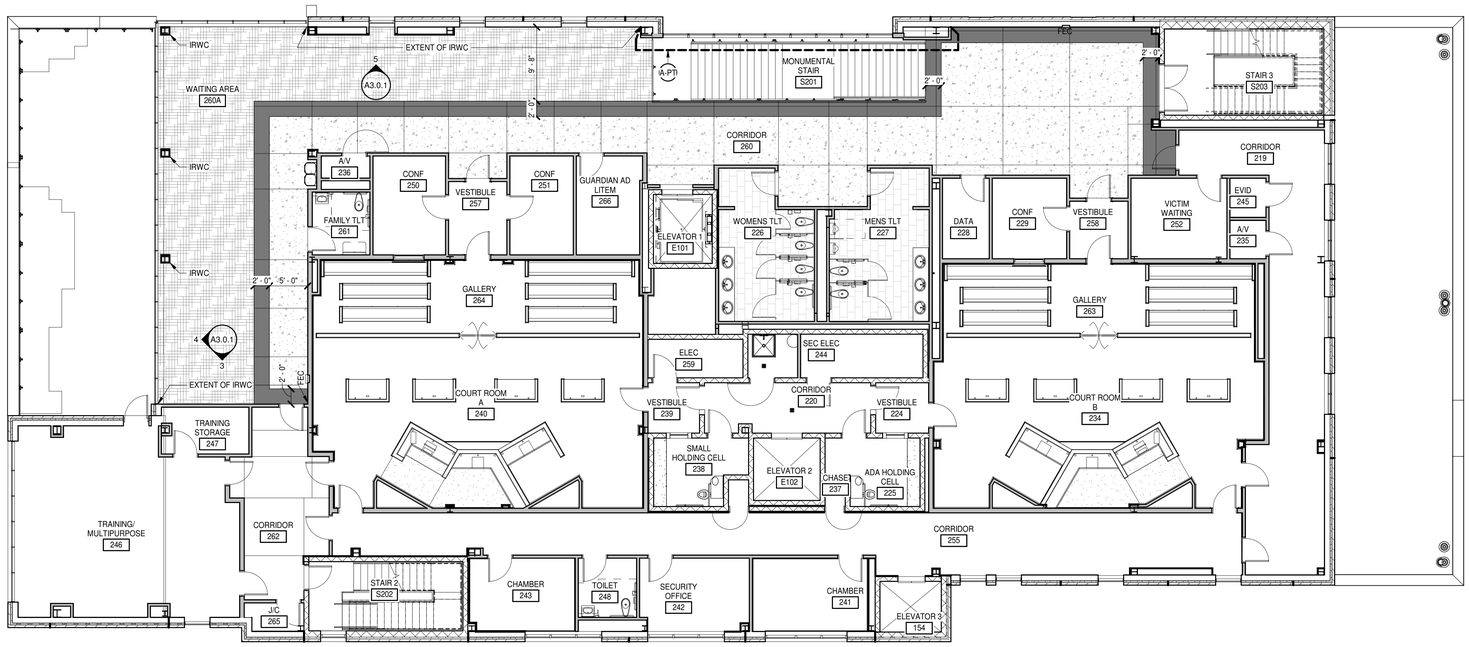
G. PROVIDE EPOXY TERRAZZO JOINT DETAIL 3/A3.0.3 AT COLUMN BLOCKOUTS.

H. THICK DASHED LINES REPRESENT ACCENT PAINT LOCATIONS.

I. A-PT DENOTES ACCENT PAINT.

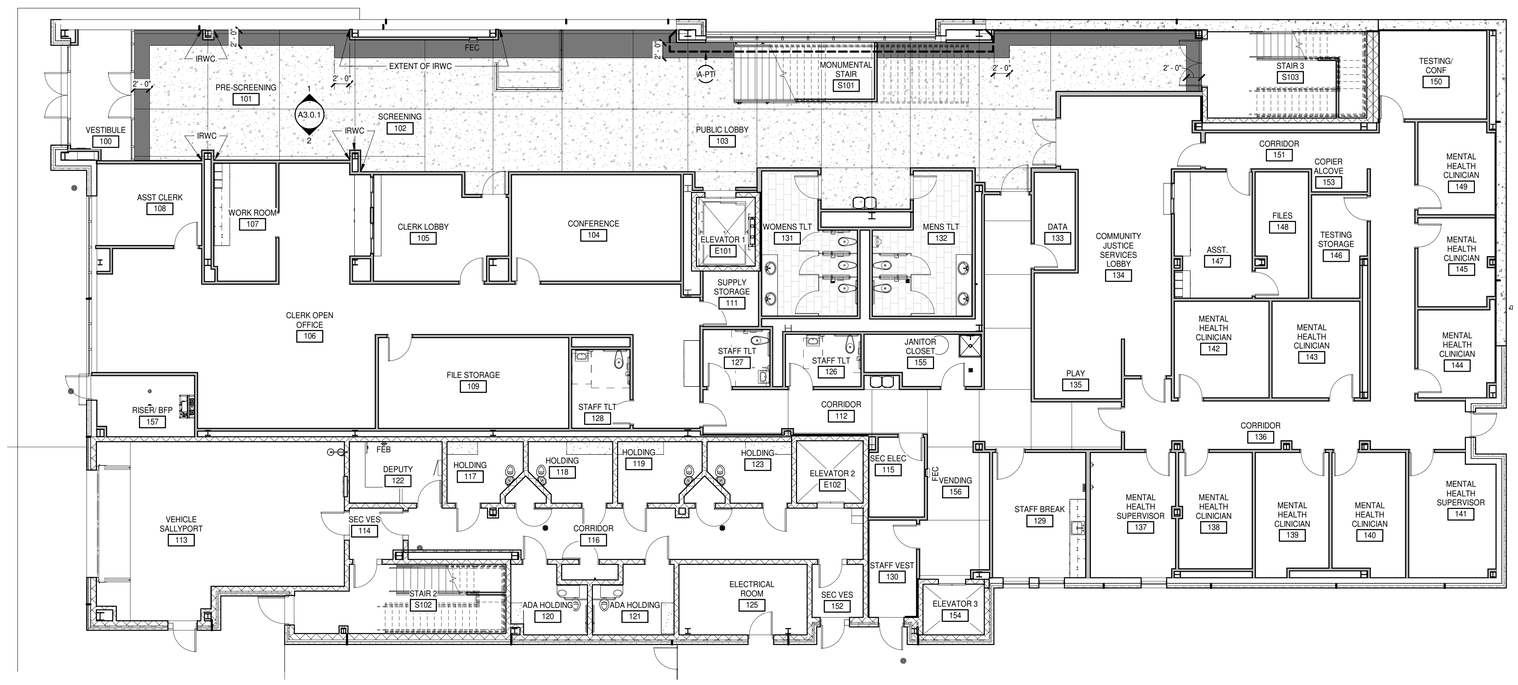
FINISH PATTERN LEGEND

- C-TILE-A
- GWT
- P-TILE
- TERR-E1
- TERR-E2



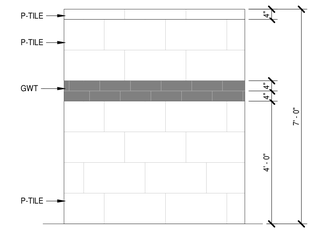
FINISH PATTERN PLAN - SECOND LEVEL

1/8" = 1'-0"



FINISH PATTERN PLAN - FIRST FLOOR

1/8" = 1'-0"



1 TYP A3.0.2 **TYPICAL TILE WAINSCOT PATTERN**

1/2" = 1'-0"

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

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FINISH PATTERNS - FIRST AND SECOND FLOORS

A3.0.2

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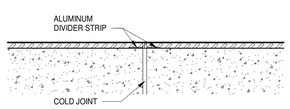
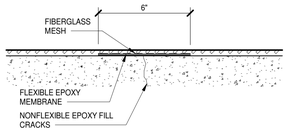


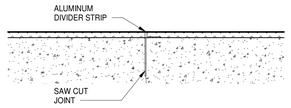
EPOXY TERRAZZO JOINT DETAIL 4

3" = 1'-0"



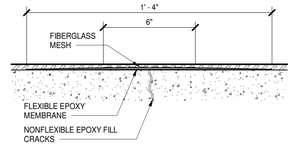
EPOXY TERRAZZO JOINT DETAIL 3

3" = 1'-0"



EPOXY TERRAZZO JOINT DETAIL 2

3" = 1'-0"



EPOXY TERRAZZO JOINT DETAIL 1

3" = 1'-0"

FINISH PATTERN GENERAL NOTES

A. DRAWING INDICATES PATTERNED AREAS ONLY. REFER TO THE ROOM FINISH SCHEDULE ON DRAWING A3.0.1 FOR A COMPLETE LIST OF FINISHES AND LOCATIONS.

B. P-TILE WALL PATTERN ON DRAWING A3.0.2 APPLY TO DRAWINGS A3.0.2-A3.0.3.

C. P-TILE WALL PATTERN ON DRAWING A3.0.2 IS TYPICAL. PATTERN WILL DIFFER SLIGHTLY BY LOCATION.

D. DIVIDER STRIP / CONTROL JOINT TOP-SECTION WIDTHS SHALL BE AS FOLLOWS:
- BORDER OF TERR-E2 = 1/4"
- ALL OTHER LOCATIONS = 1/16"

E. COORDINATE JOINT LOCATIONS IN FIELD.

F. PROVIDE EPOXY TERRAZZO JOINT DETAIL 1/A3.0.3 AT CRACKS GREATER THAN 1/16".

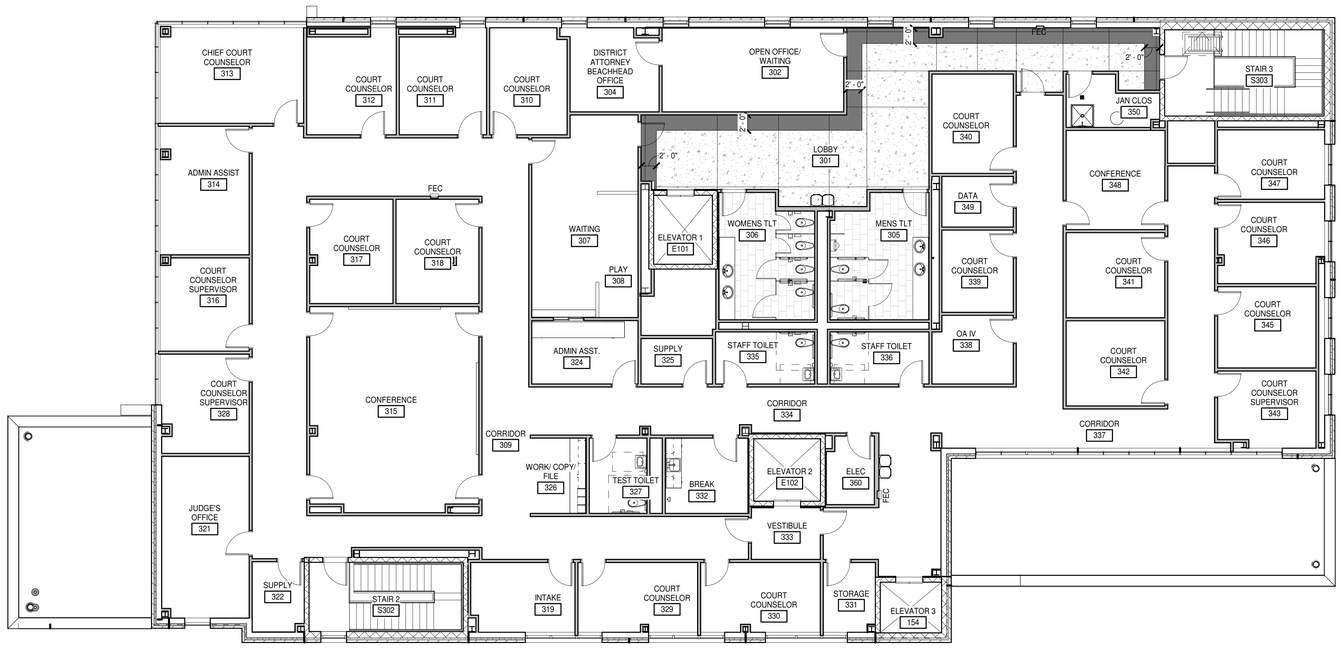
G. PROVIDE EPOXY TERRAZZO JOINT DETAIL 3/A3.0.3 AT COLUMN BLOCKOUTS.

H. THICK DASHED LINES REPRESENT ACCENT PAINT LOCATIONS.

I. A-PT DENOTES ACCENT PAINT.

FINISH PATTERN LEGEND

- C-TILE-A
- GWT
- P-TILE
- TERR-E1
- TERR-E2



FINISH PATTERN PLAN - THIRD FLOOR

1/8" = 1'-0"

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DANIEL R. MAGE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

FINISH PATTERNS - THIRD FLOOR

A3.0.3

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DOOR SCHEDULE

	DOOR						FRAME									
NUMBER	TYPE	SIZE (NOMINAL)	MATL	LOUVER	UC	GLAZING TYPE	TYPE	NUMBER	SECTIONS	HEAD DETAIL	JAMB DETAIL	JAMB DETAIL	SILL DETAIL	HDWR	FIRE RATING	NOTES
100A	FG	CW Door, Double Full Glass - MA	ALUM	--	--	2	AS	1	--	--	--	--	--	EXT-01	--	--
100B	FG	CW Door, Double Full Glass - MA	ALUM	--	--	2	AS	2	--	--	--	--	--	INT-01	--	--
104	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-02	--	--
105	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-02	--	--
106A	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-03	--	--
106B	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-04	--	--
108	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
109	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-04	--	--
111	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-06	--	--
112	F	3'-6"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-07	--	--
113A		Four-FoldDoor	STL	--	--	.5	--	--	--	7/A5.2.1	--	--	--	EXT-02	--	--
115	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-04	--	--
116A	F	2'-4"x7'-0"x1-3/4" 4" HEAD	STL	--	--	--	STL	2	--	2/A3.2.1	2/A3.2.1	2/A3.2.1	--	INT-08	--	--
116B	F	2'-4"x7'-0"x1-3/4" 4" HEAD	STL	--	--	--	STL	2	--	2/A3.2.1	2/A3.2.1	2/A3.2.1	--	INT-08	--	--
122	F	3'-0"x7'-0"x1-3/4" 4" HEAD	STL	--	--	--	STL	2	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
125	F	3'-0"x7'-0"x1-3/4" 4" HEAD	STL	--	--	--	STL	2	--	1/A3.2.1	1/A3.2.1	--	--	EXT-05	--	--
126	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-09	--	--
127	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	--	--	--	--	INT-09	--	--
128	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	--	--	--	--	INT-09	--	--
129	N	3'-6"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	--	--	--	--	INT-02	--	--
130A	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-10	--	--
130B	N	3'-0"x7'-0"x1-3/4"	STL	--	--	1	STL	2	--	3/A3.2.1	1/A3.2.1	--	--	EXT-06	--	--
131	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-11	--	--
132	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-11	--	--
133	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-04	--	--
134A	N	PR 3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	--	--	--	--	INT-12	--	--
134B	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-03	--	--
136A	N	3'-0"x7'-0"x1-3/4" 4" HEAD	WD	--	--	1	STL	2	--	3/A3.2.1	--	--	--	EXT-06	--	--
136B	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-13	--	--
137	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
138	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
139	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
140	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
141	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
142	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
143	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
144	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
145	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
146	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-06	--	--
147	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-07	--	--
148	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-04	--	--
149	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-05	--	--
150	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-14	--	--
151	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-03	--	--
155	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	--	--	INT-06	--	--
157	FG	CW Door, Single Full Glass - MA	ALUM	--	--	3	ALUM	--	--	--	--	--	--	EXT-03	--	--
166C	F	2'-4"x7'-0"x1-3/4" 4" HEAD	STL	--	--	--	STL	2	--	2/A3.2.1	2/A3.2.1	2/A3.2.1	--	INT-08	--	--
219	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
234A	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-15	--	--
228	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-04	--	--
229	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-14	--	--
234A	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
234B	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-04	--	--
235	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-16	--	--
236	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	--	--	--	--	--	--	INT-16A	--	--
239A	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-15	--	--
240A	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
240B	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-04	--	--
241	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
242	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-04	--	--
243	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
244	F	3'-0"x7'-0"x1-3/4"	STL	--	--	--	STL	2	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
245	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
246A	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
246B	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
246C	F	3'-0"x7'-0"x1-3/4" 4" HEAD	ALUM	--	--	2	STL	--	--	3/A3.2.1	--	--	--	EXT-07	--	--
247	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-06	--	--
248	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-17	--	--
250	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
251	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
252	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-18	--	--
255A	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
255B	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
255C	F	2'-4"x7'-0"x1-3/4"	STL	--	--	--	STL	2	--	2/A3.2.1	2/A3.2.1	2/A3.2.1	--	INT-08	--	--
255D	F	2'-4"x7'-0"x1-3/4"	STL	--	--	--	STL	2	--	2/A3.2.1	2/A3.2.1	2/A3.2.1	--	INT-08	--	--
257A	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-19	--	--
257B	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-15A	--	--
258A	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-19	--	--
258B	RP2 : RP	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-15A	--	--
259	F	3'-0"x7'-0"x1-3/4"	STL	--	--	--	STL	2	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-06	--	--
261	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	--	--	--	--	--	--	INT-17	--	--
262	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
265	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-06	--	--
266	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
270	F	3'-0"x7'-0"x1-3/4"	STL	--	--	--	STL	--	--	--	--	--	--	INT-16A	--	--
302	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-04	--	--
304	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
305	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-11	--	--
306	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-11	--	--
307	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-20	--	--
309	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-04	--	--
310	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
311	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
312	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
313	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
314	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
315A	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-02	--	--
315B	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-02	--	--
315C	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-02	--	--
315D	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-02	--	--
316	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
317	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
318	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
319	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
321	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
322	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-06	--	--
324	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
325	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-06	--	--
327	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-17	--	--
328	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
329	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
330	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
331	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	--	--	--
332	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-02	--	--
333A	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
333B	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
335	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-09	--	--
336	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-09	--	--
337	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-03	--	--
338	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
339	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
340	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
341	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
342	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
343	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
345	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
346	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
347	N	3'-0"x7'-0"x1-3/4"	WD	--	--	1	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
348A	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
348B	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-05	--	--
349	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-04	--	--
350	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-06	--	--
353	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-11	--	--
354	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	1	--	1/A3.2.1	1/A3.2.1	1/A3.2.1	--	INT-11	--	--
360	F	3'-0"x7'-0"x1-3/4"	WD	--	--	--	STL	--	--	--	--	--	--	INT-06	--	--
401	F	3'-0"x7'-0"x1-3/4"	STL	--	--	--	STL	2	--	--	--	--	--	EXT-08	--	--
S102A	F	3'-6"x7'-0"x1-3/4" 4" HEAD	STL	--	--	--	--	2	--	3/A3.2.1	--	--	--	EXT-04	--	--
S103A	F	PR 3'-0"x7'-0"x1-3/4" 1 hR	STL	--	--	--	--	2	--	--	--	--	--	INT-21	1 HR	--
S202	F	3'-0"x7'-0"x1-3/4" 1 HR	STL	--	--	--	--	2	--	3/A3.2.1	3/A3.2.1	3/A3.2.1	--	INT-22	1 HR	--
S203	F	PR 3'-0"x7'-0"x1-3/4" 1 hR	STL	--	--	--	--	2	--	--	--	--	--	INT-23	1 HR	--
S302	F	3'-0"x7'-0"x1-3/4" 1 HR	STL	--	--	--	--	2	--	3/A3.2.1	3/A3.2.1	3/A3.2.1	--	INT-24	1 HR	--
S303	F	3'-0"x7'-0"x1-3/4" 1 HR	STL	--	--	--	--	2	--	3/A3.2.1	3/A3.2.1	3/A3.2.1	--	INT-22	1 HR	--

DOOR AND FRAME GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWINGS A3.2.1 - A3.2.n.

B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G., SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

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MOSELEY ARCHITECTS PROFESSIONAL CORPORATION 50149 NORTH CAROLINA CHARLOTTE

DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE, NC

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

DOOR AND FRAME SCHEDULE

A3.1.1

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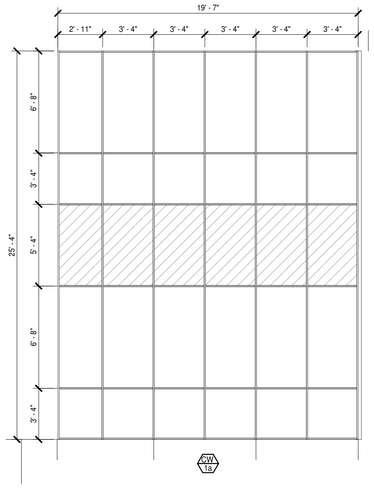
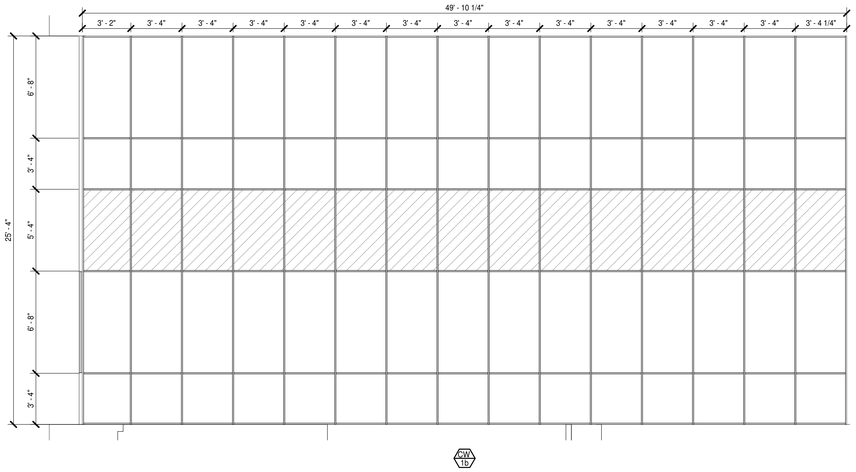
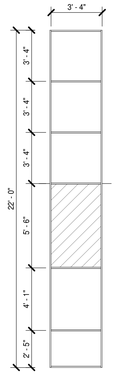
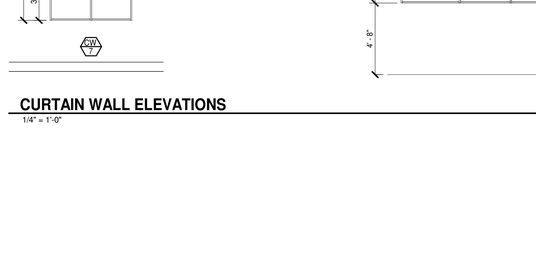
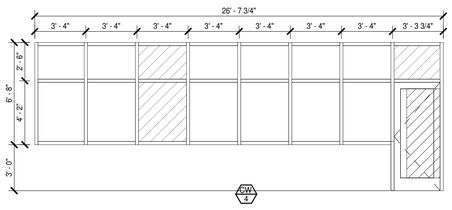
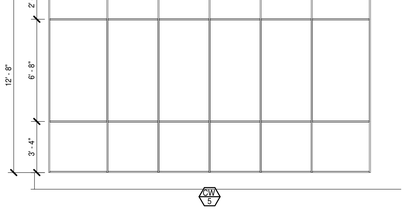


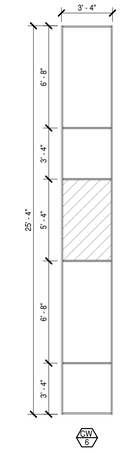


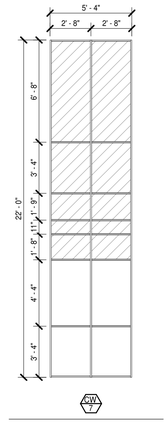


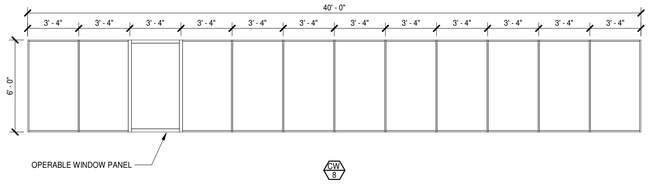


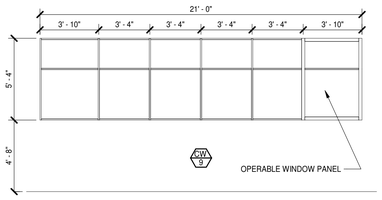






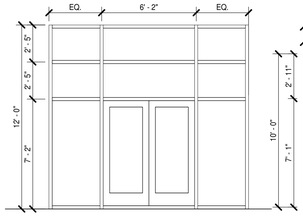


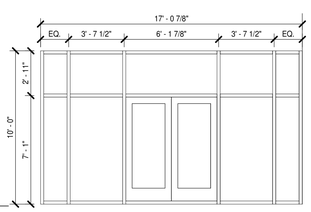


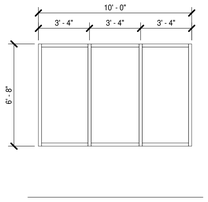


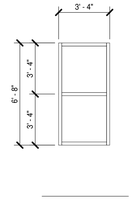
CURTAIN WALL ELEVATIONS

1/4" = 1'-0"



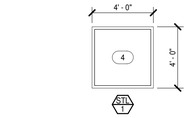






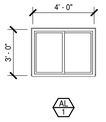
ALUMINUM STOREFRONT

1/4" = 1'-0"



STEEL WINDOWS

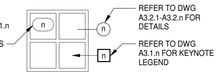
1/4" = 1'-0"



SLIDING TRANSACTION WINDOW

1/4" = 1'-0"

DOOR, FRAME AND GLAZING TYPE GENERAL NOTES



A. NOTE...

B.

GLAZING TYPES

REPRESENTED BY n

1. 1/4" CLEAR
2. 1" LOW-E CLEAR INSULATING
3. 1" SPANDREL PANEL
4. TWO-WAY GLAZING (PRIVACY FILM)
5. SPANDREL-CLAD POLYCARBONATE SECURITY GLAZING

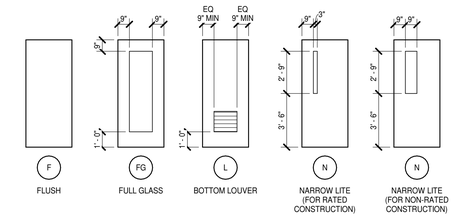
NOTES:
1. ALL GLAZING IN INTERIOR FRAMES SHALL BE TYPE 1, UNO.
2. ALL GLAZING IN EXTERIOR FRAMES SHALL BE TYPE 2, UNO
3. GLAZE ALL OPENINGS IN FRAMES UNLESS SPECIFICALLY INDICATED OTHERWISE
4. ALL GLAZING SHALL BE SAFETY GLASS UNLESS INDICATED OTHERWISE

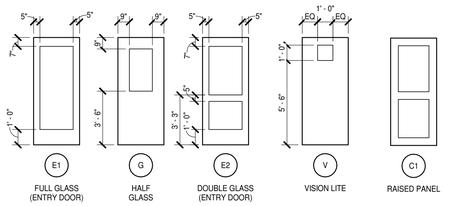
DOOR, FRAME AND GLAZING TYPE KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A3.1.1 - A3.1.n

1 SIZE AS REQUIRED TO ACCOMMODATE DOOR, HARDWARE AND FRAME COMPONENTS.





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MOSELEY ARCHITECTS PC REGISTERED ARCHITECTS INCORPORATED 50149 NORTH CAROLINA CHARLOTTE

DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

DOOR, FRAME AND GLAZING TYPES

A3.1.2

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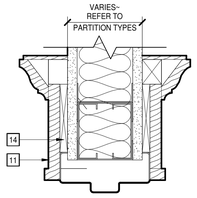
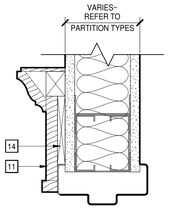
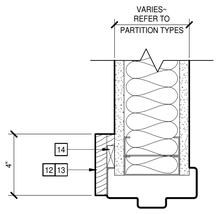


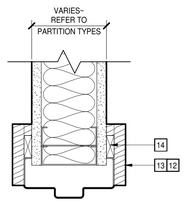
12 HEAD DETAIL AT COURTROOM
A3.2.1 — 3" = 1'-0"



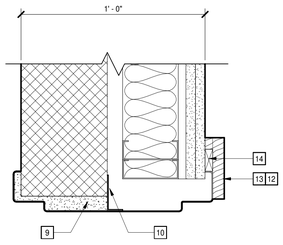
13 HEAD DETAIL AT COURTROOM
A3.2.1 — 3" = 1'-0"



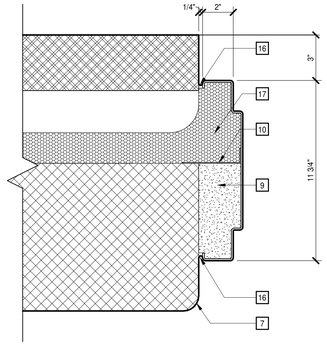
14 JAMB DETAIL AT COURTROOM
A3.2.1 — 3" = 1'-0"



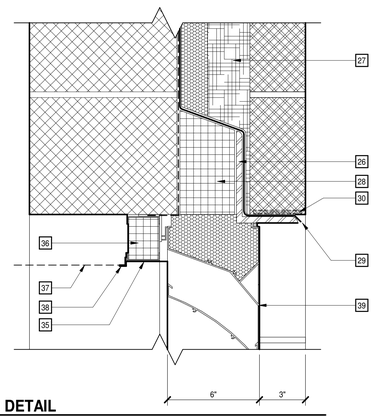
15 JAMB DETAIL
A3.2.1 — 3" = 1'-0"



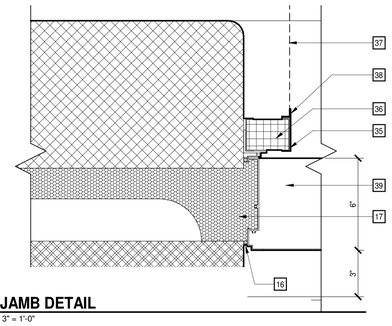
16 JAMB DETAIL
A3.2.1 — 3" = 1'-0"



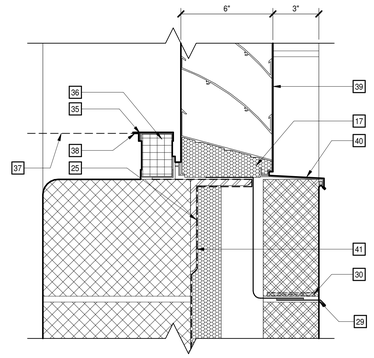
8 JAMB DETAIL
A3.2.1 — 3" = 1'-0"



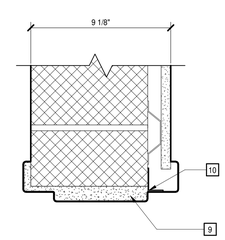
9 HEAD DETAIL
A3.2.1 — 3" = 1'-0"



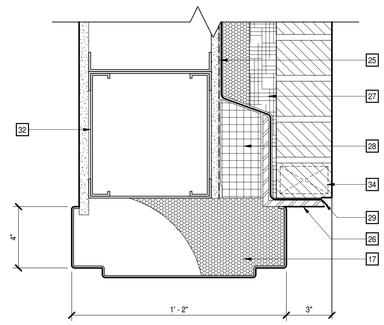
10 JAMB DETAIL
A3.2.1 — 3" = 1'-0"



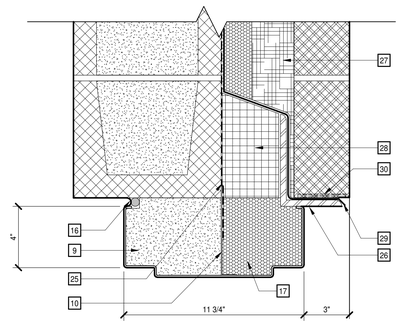
11 SILL DETAIL
A3.2.1 — 3" = 1'-0"



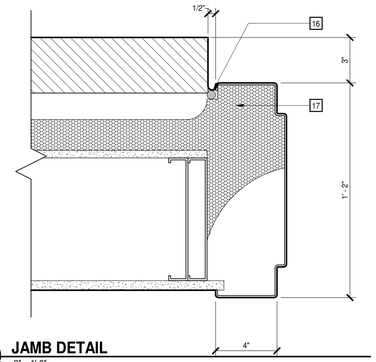
4 HEAD/JAMB DETAIL
A3.2.1 — 3" = 1'-0"



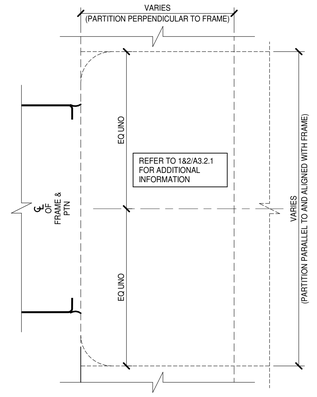
5 HEAD DETAIL (TYP.)
A3.2.1 — 3" = 1'-0"



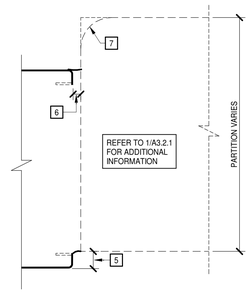
6 HEAD DETAIL
A3.2.1 — 3" = 1'-0"



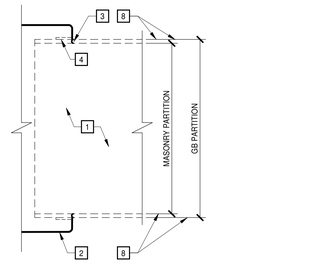
7 JAMB DETAIL
A3.2.1 — 3" = 1'-0"



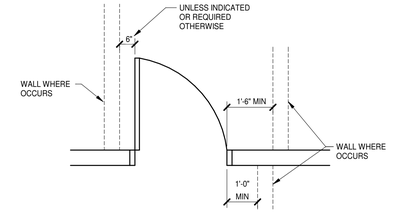
3 INTERIOR BETWEEN THE JAMB - BUTTED HEAD/JAMB/SILL
A3.2.1 — 6" = 1'-0"



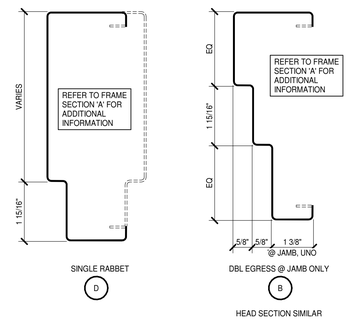
2 INTERIOR BETWEEN THE JAMB - PROJECTED HEAD/JAMB/SILL
A3.2.1 — 6" = 1'-0"

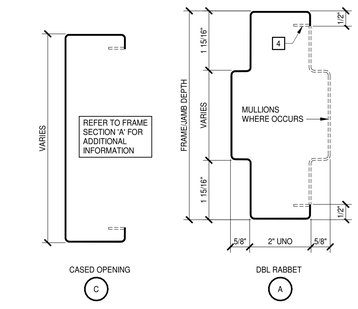


1 INTERIOR WRAP HEAD/JAMB/SILL
A3.2.1 — 6" = 1'-0"



MANEUVERING CLEARANCE AT DOORS
NO SCALE





1. ALL FRAME/JAMB DEPTHS, OTHER THAN WRAP CONDITIONS, SHALL BE _____ UNO.
2. ALL FRAME/JAMB DEPTHS AT WRAP CONDITIONS SHALL BE SIZED TO SUIT PARTITION.
3. DOORS, PANELS, GLAZING, STOPS, AND OTHER FRAME INFILLS ARE NOT SHOWN IN FRAME SECTIONS AS THEY VARY - PROVIDE SAME WHERE INDICATED.

STEEL FRAME SECTIONS
NO SCALE

DOOR AND FRAME DETAIL KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A3.2.1 - A3.2.n

1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT, ALL SIDES - TOOL TO 90°.
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	9/16" @ MAS; 1/2" @ GB.
6	1/4" @ JAMBS, UNO; DIMENSION @ HEAD & SILL VARIES.
7	BULLNOSE @ CMU JAMBS & SILLS.
8	0" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.

DOOR/FRAME DETAIL KEYNOTES

1. ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY
2. REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE
3. SEALANT, ALL SIDES - TOOL TO 90 DEGREES
4. BACKBEND RETURN @ GM LOCATIONS ONLY.
5. 9/16" @ MAS; 1/2" @ GB.
6. 1/4" @ JAMBS, UNO; DIMENSION @ HEAD & SILL VARIES.
7. BULLNOSE @ CMU JAMBS & SILLS
8. 0" @GB LOCATIONS; 1/16" @ MAS LOCATIONS.
9. FILL SOLID WITH MORTAR
10. MORTAR STOP
11. REFER TO TYPICAL DOOR HEAD TRIM DETAILS
12. REFER TO TYPICAL PLINTH BLOCK DETAIL
13. REFER TO TYPICAL DOOR JAMB DETAILS
14. WOOD BLOCKING
15. NOT USED
16. SEALANT AND BACKER ROD
17. SPRAYED POLYURETHANE FOAM (SPF)
18. FLASHING AND RECEIVER
19. 3/4" EXTERIOR GRADE PLYWOOD
20. (2) LAYERS 1/2" EXTERIOR GRADE PLYWOOD
21. 2" RIGID INSULATION
22. NOT USED
23. 1/4" X 10 1/2" SAFETY PLATE WITH LIP - SET IN BED OF SEALANT
24. SOLID RUBBER SLOPED THRESHOLD, SET IN BED OF SEALANT
25. AIR BARRIER TRANSITION MEMBRANE
26. STEEL LINTEL. REFER TO LINTEL SCHEDULE ON STRUCTURAL DRAWINGS
27. CAVITY DRAINAGE MATERIAL, THICKNESS AS REQUIRED TO FILL AIR SPACE, HARD AGAINST BACKSIDE OF VENEER AND FACE OF CAVITY INSULATION
28. XPS FORM
29. THROUGH-WALL FLASHING WITH DRIP
30. BED JOINT WEEP SYSTEM
31. FILL STEEL TUBE WITH INSULATION
32. CFSF-S BOX BEAM WHERE INDICATED ON STRUCTURAL DRAWING
33. ROOF MEMBRANE. TURN UNDER THRESHOLD
34. WEEP VENTS
35. GASKET
36. INSULATED BLANK-OFF PANEL WITH 2" THICK RIGID INSULATION
37. DUCT
38. DUCT FLANGE
39. PREFINISHED ALUMINUM LOUVER
40. ALUMINUM SILL (LOUVER ACCESSORY)
41. STEEL L5" X 3" X 5/16"
42. STRUCTURAL STEEL ANGLE
43. NOT USED
44. CFSF-S SIZE MAY VARY, REFER TO PLAN FOR WALL TYPES
45. 4 PCF MINERAL FIBER INSULATION; 1" MIN.
46. SOLID SURFACE STOOL
47. ENGINEERED TRANSITION ASSEMBLY

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE, NC

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

DOOR AND FRAME DETAILS

A3.2.1

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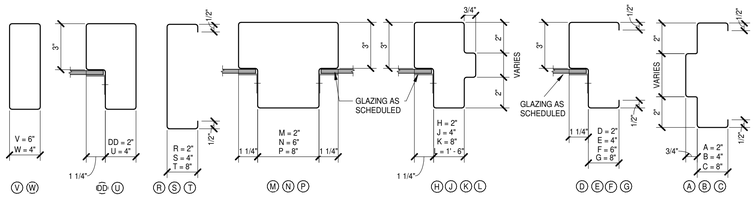
DETENTION WINDOW SCHEDULE

NO	GLAZING			FRAME							FIRE RATING	NOTES
	STOP SIDE			DETAILS								
	TYPE	INSIDE	OUTSIDE	TYPE	NO.	HEAD	JAMB 1	JAMB 2	SILL			
224	SG-2P		•	DHM	3	10	9	8	---		---	
239	SG-2P		•	DHM	3	10	9	8	---		---	

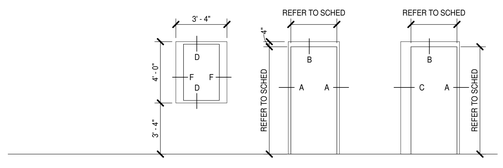
DETENTION DOOR SCHEDULE

NUMBER	HDWR SET NO.	DOOR TYPE	DOOR SIZE (NOMINAL)	DOOR MATL	SECURITY GLAZING TYPE	FRAME TYPE	FRAME NUMBER	FRAME HEAD DETAIL	FRAME JAMB DETAIL	FRAME JAMB DETAIL	FRAME SILL DETAIL	KEYING SECURITY	KEYING MASTER	FIRE RATING	OPTIONS SHUTTER	OPTIONS FOOD PASS	NOTES
D113B	SH1	DF	3'-0"x7'-0"x2"	DHM	---	DHM	1	11	7	7	---	M3	---	---			--
D114A	SH2	DF	3'-0"x7'-0"x2"	DHM	---	DHM	1	10	6	6	---	M1	---	---			--
D114B	SH2	DN	3'-0"x7'-0"x2"	DHM	SG-1P	DHM	1	10	6	6	---	M2	MA	---			--
D117	SH3	DN	3'-0"x7'-0"x2"	DHM	SG-3P	DHM	2	10	6	6	---	P1	---	---		•	--
D118	SH3	DN	3'-0"x7'-0"x2"	DHM	SG-3P	DHM	2	10	6	6	---	P1	---	---		•	--
D119	SH3	DN	3'-0"x7'-0"x2"	DHM	SG-3P	DHM	2	10	6	6	---	P1	---	---		•	--
D120	SH3	DN	3'-0"x7'-0"x2"	DHM	SG-3P	DHM	2	10	6	6	---	P1	---	---		•	--
D121	SH3	DN	3'-0"x7'-0"x2"	DHM	SG-3P	DHM	2	10	6	6	---	P1	---	---		•	--
D123	SH3	DN	3'-0"x7'-0"x2"	DHM	SG-3P	DHM	2	10	6	6	---	P1	---	---		•	--
D152A	SH1	DF	3'-0"x7'-0"x2"	DHM	---	DHM	1	6/A5.2.1	7	7	---	M1	---	---			--
D152B	SH2	DN	3'-0"x7'-0"x2"	DHM	SG-1P	DHM	1	10	6	6	---	M2	MA	---			--
DS102B	SH2	DF	DHM 1 1HR	DHM		DHM	1	10	6	6	---	M1	---	1 HR			--
D224B	SH2	DN	3'-0"x7'-0"x2"	STL	SG-2P	DHM	1	10	6	6	---	M2	MA	---			--
D225	SH3	DN	3'-0"x7'-0"x2"	DHM	SG-3P	DHM	2	10	6	6	---	P1	---	---		•	--
D238	SH3	DN	3'-0"x7'-0"x2"	DHM	SG-3P	DHM	2	10	6	6	---	P1	---	---		•	--
D239B	SH2	DN	3'-0"x7'-0"x2"	STL	SG-2P	DHM	1	10	6	6	---	M2	MA	---			--

DETENTION FRAME SECTIONS

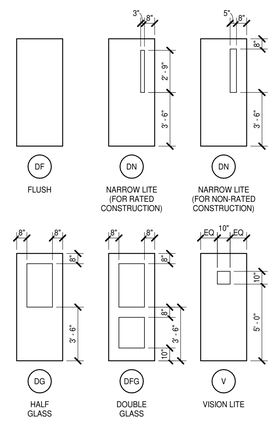


DETENTION FRAME TYPES



D3 D2 D1

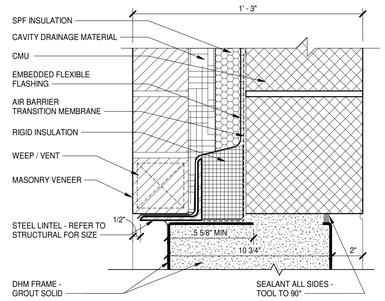
DETENTION DOOR TYPES



FLUSH
NARROW LITE (FOR RATED CONSTRUCTION)
NARROW LITE (FOR NON-RATED CONSTRUCTION)
HALF GLASS
DOUBLE GLASS
VISION LITE

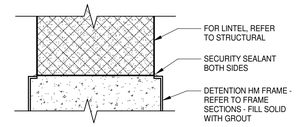
11 HEAD DETAIL

TYP A3.3.1 — 3" = 1'-0"



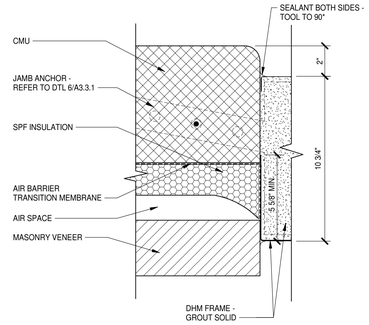
10 HEAD DETAIL - WRAP

TYP A3.3.1 — 3" = 1'-0"



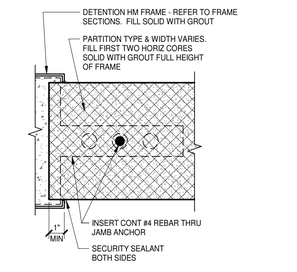
7 JAMB DETAIL

TYP A3.3.1 — 3" = 1'-0"

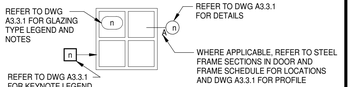


6 JAMB DETAIL - WRAP

TYP A3.3.1 — 3" = 1'-0"



DETENTION DOOR, FRAME AND GLAZING TYPE GENERAL NOTES



A. USE 5-3/4" FRAME WIDTH UNLESS INDICATED OTHERWISE. USE SINGLE RABBET FRAME SECTIONS AT GLAZING. VERIFY ACTUAL GLAZING THICKNESS PRIOR TO PREDRILLING FOR GLAZING STOPS. FRAME FACE DIMENSIONS ARE 2" UNLESS INDICATED OTHERWISE.

B. REFER TO DETAIL ON A3.3.1 FOR TYPICAL GLAZING STOP. WINDOW NUMBER INDICATES ROOM NUMBER IN WHICH GLAZING STOP SHALL BE LOCATED. THIS APPLIES TO DETENTION WINDOWS ONLY.

C. REFER TO ARCH DRAWINGS FOR ALL DIMENSIONS AND WALL TYPES. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.

D. 12 GA CLOSURES SHALL BE CONTINUOUS FROM TOP TO BOTTOM OF SHORTER FRAME. THE CLOSURE SHALL BE SIZED TO OVERLAP THE FRAME FACE 1/2", CLAMPED IN PLACE AND PLUG WELDED TO EACH FRAME SECTION THROUGH 1/2" DIAMETER HOLES AT 4'-0" OC VERTICALLY LOCATED 3/4" FROM THE EDGE OF THE CLOSURE. THE WELDS SHALL BE GROUND SMOOTH AND FILLED WITH EPOXY FILLER. FILL ALL INTERIOR FRAMES SOLID WITH GROUT.

E. REFER TO SPECIFICATION SECTION 111950 FOR SECURITY GLAZING TYPES.

F. REFER TO DETENTION FRAME SECTIONS ON A3.3.1 INDICATED BY UPPERCASE LETTERS ("A", "B", "C") AS REFERENCED FROM DETENTION DOOR FRAME TYPES AND DETENTION WINDOW FRAME TYPES.

G. THE DEC SHALL FIELD VERIFY AND COORDINATE ALL DIMENSIONS AND MOUNTING CONDITIONS PRIOR TO INSTALLATION OF DHM.

H. DHM AND SHM SHALL BE USED INTERCHANGEABLY TO REFER TO SECURITY HOLLOW METAL AND DETENTION HOLLOW METAL. REFER TO SPECIFICATION SECTION 111910.

I. REFER TO SECURITY HARDWARE SPECIFICATION SECTION 111960 FOR HARDWARE SET NUMBERS REFERENCED ON A3.3.1.

J. REFER TO A3.3.1 FOR ALL HEAD, JAMB, AND SILL DETAILS REFERENCED IN DETENTION DOOR AND DETENTION WINDOW SCHEDULE.

K. PROVIDE FOOD PASS AT ALL DOORS WITH "●" INDICATED IN FOOD PASS COLUMN. PROVIDE FOOD PASS PER DETAIL ON A3.3.1.

DETENTION DOOR & FRAME KEYNOTES

1. NOT USED
2. NOT USED
3. NOT USED
4. NOT USED

DETENTION GLAZING TYPES

(ALL TYPES NOT NECESSARILY USED)

SG-1P = 3/4" ± THICK MULTI-PLY POLYCARBONATE GLAZING; ASTM F1915 GRADE 1

SG-2P = 1/2" ± THICK MULTI-PLY POLYCARBONATE GLAZING; ASTM F1915 GRADE 2

SG-3P = 3/8" ± THICK MULTI-PLY POLYCARBONATE GLAZING; ASTM F1915 GRADE 3

SG-10 = 1" ± THICK MULTI-PLY GLASS CLAD POLYCARBONATE GLAZING; ASTM F1915 GRADE 1 + SHADING FILM

SG-11 = 1" ± THICK MULTI-PLY GLASS CLAD POLYCARBONATE GLAZING; ASTM F1915 GRADE 1

SG-12 = 1" ± THICK MULTI-PLY GLASS CLAD POLYCARBONATE GLAZING; ASTM F1915 GRADE 2 + MIRRORPANE

SG-13F = 1 1/8" ± THICK MULTI-PLY GLASS CLAD POLYCARBONATE GLAZING; ASTM F1915 GRADE 1, UL FIRE 45 MIN. + SHADING FILM

SG-14F = 1 1/8" ± THICK MULTI-PLY GLASS CLAD POLYCARBONATE GLAZING; ASTM F1915 GRADE 1, UL FIRE 45 MIN.

SG-15F = 1 1/8" ± THICK MULTI-PLY GLASS CLAD POLYCARBONATE GLAZING; ASTM F1915 GRADE 1, UL FIRE 90 MIN

SG-16F = 1" ± THICK MULTI-PLY GLASS CLAD POLYCARBONATE GLAZING; ASTM F1915 GRADE 2, UL FIRE 45 MIN

SG-20 = 1 1/8" ± THICK MULTI-PLY GLASS CLAD POLYCARBONATE GLAZING; UL 752, LEVEL 3 BALLISTICS RATED

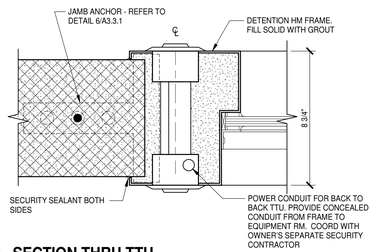
GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWING A3.3.1.

B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G., SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

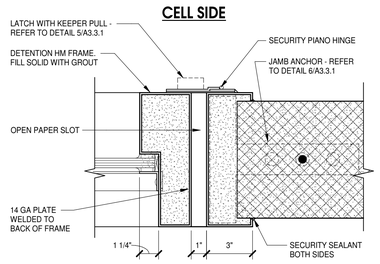
CELL SIDE



9 SECTION THRU TTU

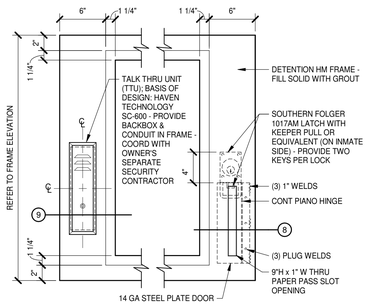
A3.3.1 A3.3.1 — 3" = 1'-0"

CELL SIDE



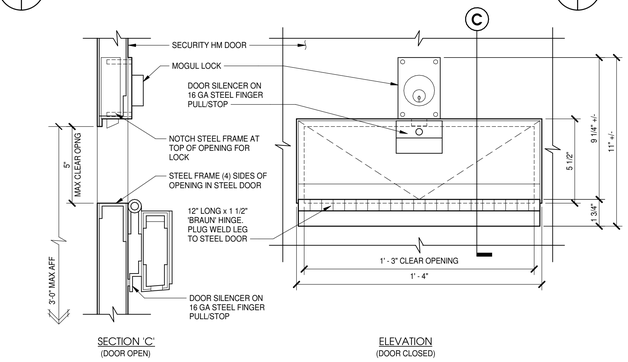
8 SECTION THRU PAPER PASS

A3.3.1 A3.3.1 — 3" = 1'-0"



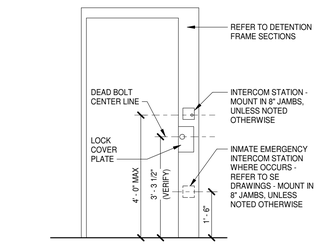
5 ELEVATION - VISITATION WINDOW

A3.3.1 — 1 1/2" = 1'-0"



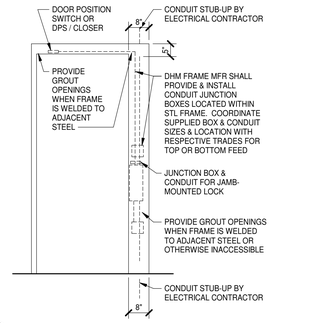
4 DETAIL - FOOD PASS DETAIL 180

TYP A3.3.1 — 3" = 1'-0"



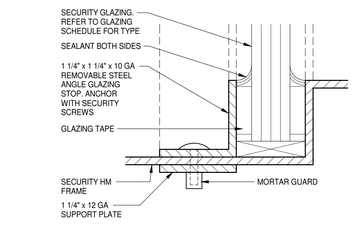
3 FRAME ELEVATION DETAIL

TYP A3.3.1 — 1/2" = 1'-0"



2 FRAME ELEVATION DETAIL

TYP A3.3.1 — 1/2" = 1'-0"



1 DETAIL - SECURITY GLAZING STOP

TYP A3.3.1 — 12" = 1'-0"

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NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

DETENTION DOOR SCHEDULE, DETAILS

A3.3.1

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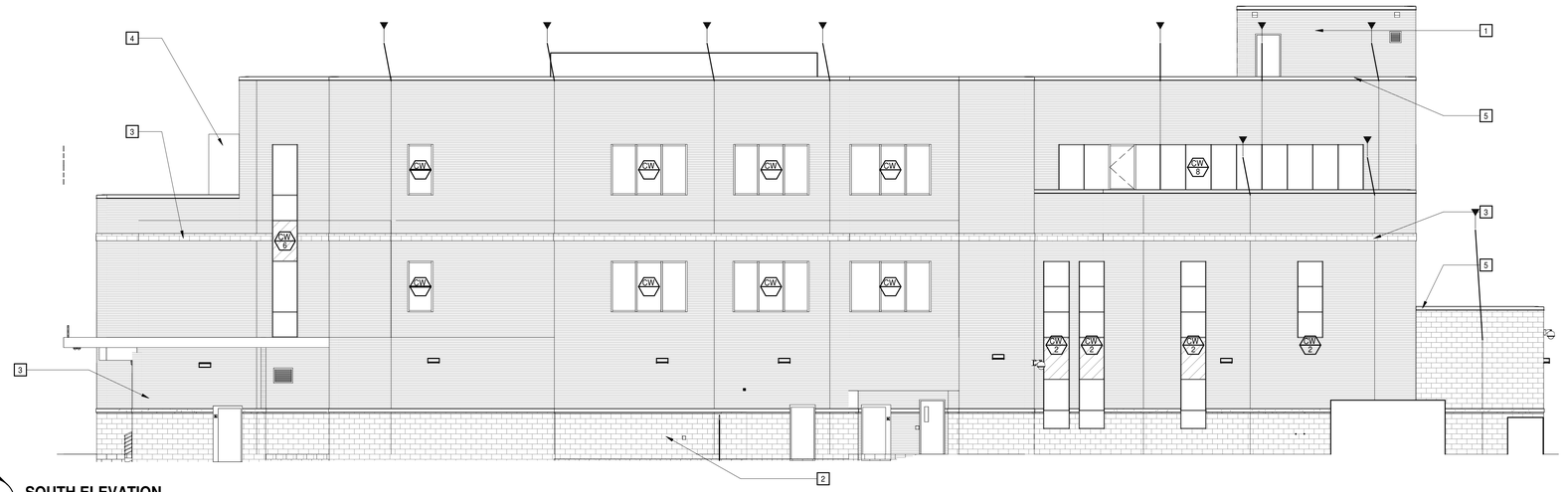
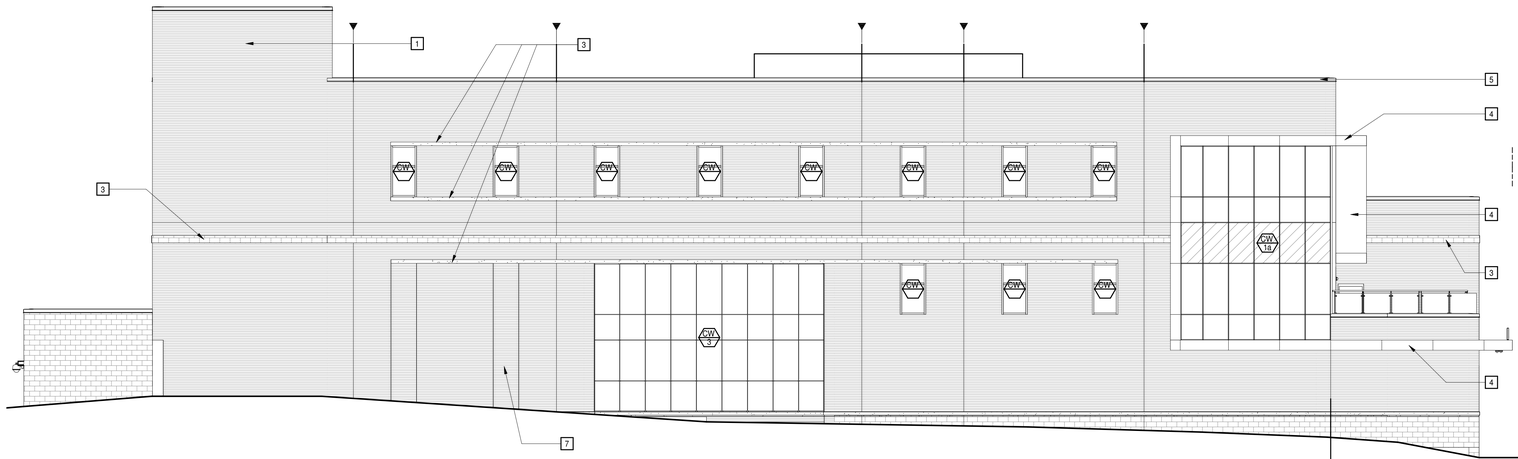
BUILDING ELEVATION KEYNOTES

APPLIES TO DRAWINGS A4.1
REPRESENTED BY [n]

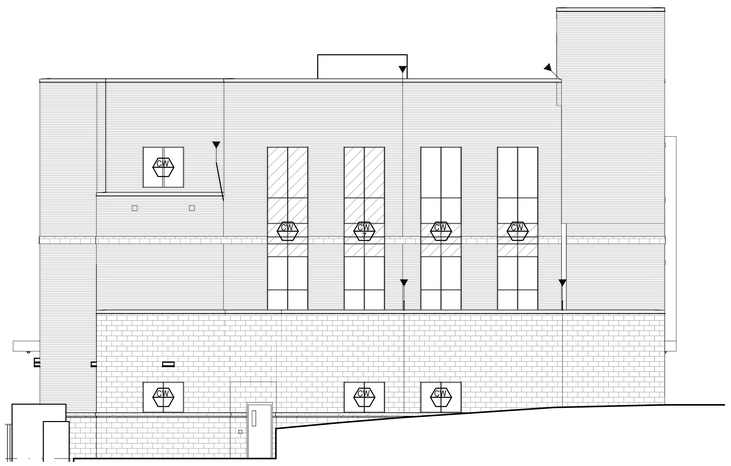
1. STANDARD BRICK RUNNING BOND - MATCH COLOR TO ADJACENT BUILDING
2. CAST STONE MASONRY - MATCH COLOR TO ADJACENT BUILDING
3. ARCHITECTURAL PRECAST BAND
4. COMPOSITE METAL PANEL SYSTEM - "BONE WHITE" ENAMEL FINISH
5. METAL COPING- MATCH COMPOSITE METAL PANEL SYSTEM.
6. BI-FOLD DOOR WITH SPANDREL GLAZING
7. INSET BRICK PANEL



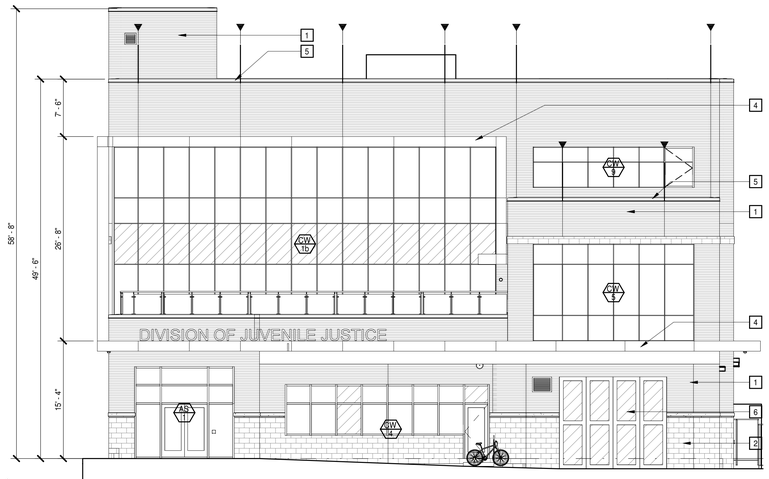
2 A2.1 A4.1 **SOUTH ELEVATION**
1/8" = 1'-0"



3 A2.1 A4.1 **NORTH ELEVATION**
1/8" = 1'-0"



4 A2.1 A4.1 **EAST ELEVATION**
1/8" = 1'-0"



1 A2.1 A4.1 **WEST ELEVATION**
1/8" = 1'-0"

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NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

BUILDING ELEVATIONS

A4.1

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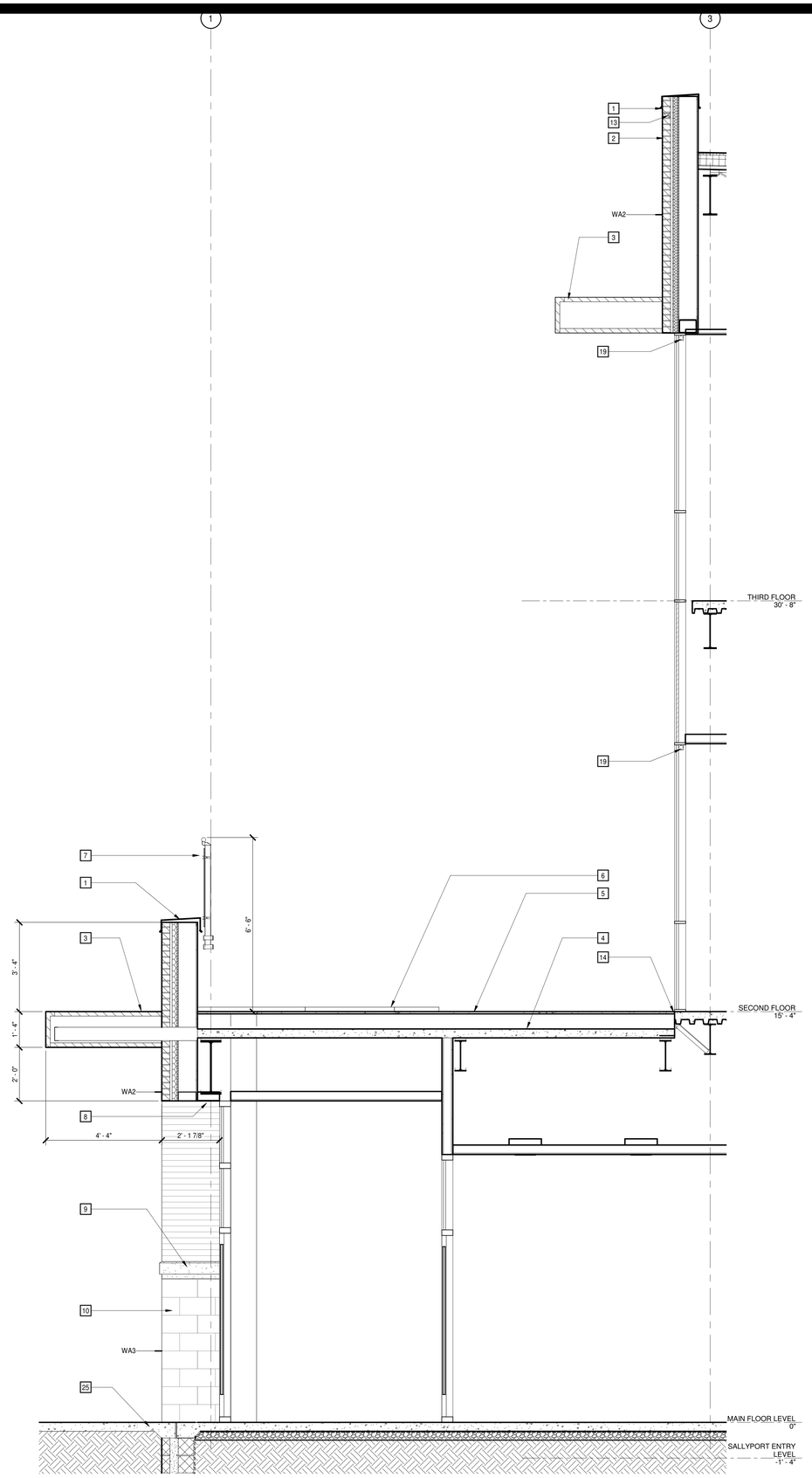
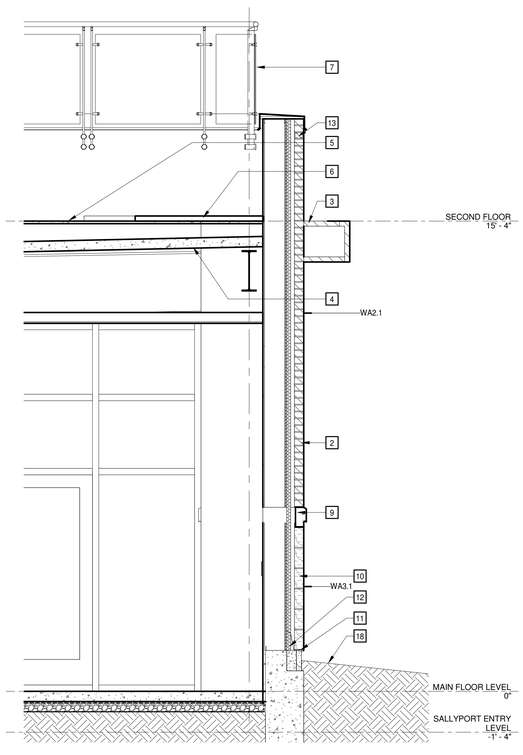


2 A2.1 A5.1.1 **WALL SECTION 2**
1/2" = 1'-0"



1 A2.1 A5.1.1 **WALL SECTION 1**
1/2" = 1'-0"

WALL SECTION KEYNOTES

1. PRE-FORMED METAL COPING - KYNAR FINISH TO MATCH COMPOSITE METAL PANEL SYSTEM
2. BRICK MASONRY
3. COMPOSITE METAL PANEL SYSTEM - SEE ELEVATIONS/ DETAILS ON A5.2.1 FOR TYPICAL JOINT LOCATIONS. SLOPE TOP FOR POSITIVE DRAINAGE
4. SLOPED BASE SLAB
5. CONCRETE ROOF TERRACE PAVERS ON ADJUSTABLE PEDESTAL SYSTEM. MATCH INTERIOR FINISH FLOOR LEVEL
6. TRAY GREEN ROOF
7. GLASS HANDRAIL - MOUNT TO SURFACE OF WALL BELOW
8. METAL SOFFIT PANELS - MATCH FINISH TO COMPOSITE METAL PANEL SYSTEM.
9. CAST STONE WATER TABLE, SLOPE TOP FOR POSITIVE DRAINAGE
10. CAST STONE MASONRY
11. METAL DRIP EDGE WITH HEMMED EDGES, FORM DRIP EDGE WITH TURN DOWN IMMEDIATELY AT EXTERIOR FACE OF MASONRY (TYP.)
12. PROVIDE EMBEDDED FLEXIBLE FLASHING THROUGHWALL FLASHING, CAVITY DRAINAGE MATERIAL AND CELLULAR VENT WEEPS (TYP)
13. TOP OF WALL CELLULAR VENT WEEPS - TYPICAL AT ALL EXTERIOR WALLS
14. SEALANT AND BACKER ROD
15. FOUR-FOLD SALLYPORT ENTRY DOOR
16. CAST STONE WINDOW SILL/HEAD ACCENT BAND - SLOPE TOP FOR POSITIVE DRAINAGE
17. DIMENSIONAL METAL LETTERING
18. APPROXIMATE EXTERIOR GRADE - REFER TO CIVIL DRAWINGS FOR FINISH GRADE ELEVATIONS
19. ROLLER SHADE
20. TAPERED ROOF INSULATION
21. SOLID SURFACE WINDOW STOOL WITH FILLETED CORNER- COORDINATE MATERIAL AND COLOR SELECTION WITH INTERIOR FINISH SCHEDULE(TYP)
22. ONE HOUR RATED GYPSUM BOARD CEILING ENCLOSURE ON METAL STUDS
23. 5" x 12" CAST STONE ACCENT BAND
24. STEEL LOUVER - SEE MECHANICAL DRAWINGS FOR SIZE AND CONNECTIONS
25. CAST IN PLACE CONCRETE WALK - SEE CIVIL DRAWINGS FOR SLAB CONSTRUCTION. SLOPE ALL SIDEWALKS AWAY FROM EDGE OF BUILDING
26. DAMPPROOFING - START AT 6" MIN. ABOVE FINISH GRADE AND EXTEND DOWN TO TOP OF FOOTING - TYPICAL FOR ALL EXTERIOR WALLS BELOW GRADE

EXTERIOR WALL ASSEMBLIES

APPLIES TO A5.1 AND A5.2 SERIES OF DRAWINGS
REPRESENTED BY 〈WAn〉

MARK	FIRE RATING (REFER TO LS.1.1 FOR LEGEND)	REMARKS	INFORMATION
WA1			1'-7" @ WA1 1'-3" @ WA10 FACE BRICK AIR SPACE 2" SPRAYED POLYURETHANE FOAM AIR BARRIER 12" CMU AT WA12 10" CMU AT WA11 8" CMU AT WA10
WA2			1' - 4" FACE BRICK AIR SPACE 2" SPRAYED POLYURETHANE FOAM AIR BARRIER 3/4" SHEATHING 8" CFSF-S 5/8" GYPSUM BOARD
WA2.1	1 HR		
WA3			1' - 4" 4" MODULAR CAST STONE UNITS AIR SPACE 2" SPRAYED POLYURETHANE FOAM AIR BARRIER 1/2" SHEATHING 8" CFSF-S 5/8" GYPSUM BOARD
WA4			4" MODULAR CAST STONE UNITS AIR SPACE 2" SPRAYED POLYURETHANE FOAM AIR BARRIER 12" CMU AT WA42 10" CMU AT WA41 8" CMU AT WA40
WA5	1 HR		1' - 3 1/2" FACE BRICK AIR SPACE 2" SPRAYED POLYURETHANE FOAM AIR BARRIER 3/4" SHEATHING 8" CFSF-S 5/8" GYPSUM BOARD
WA6			
WA7			
WA8			

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NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

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DATE	DESCRIPTION

WALL SECTIONS

A5.1.1

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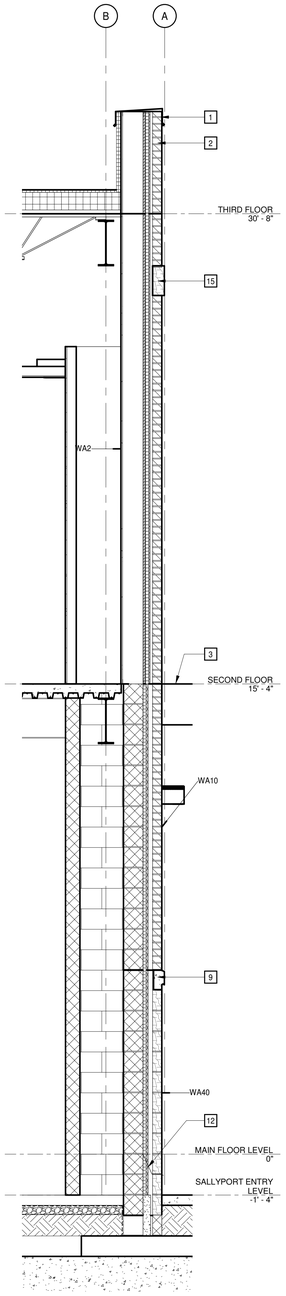

5 A2.1 | A5.1.2 **WALL SECTION 5**
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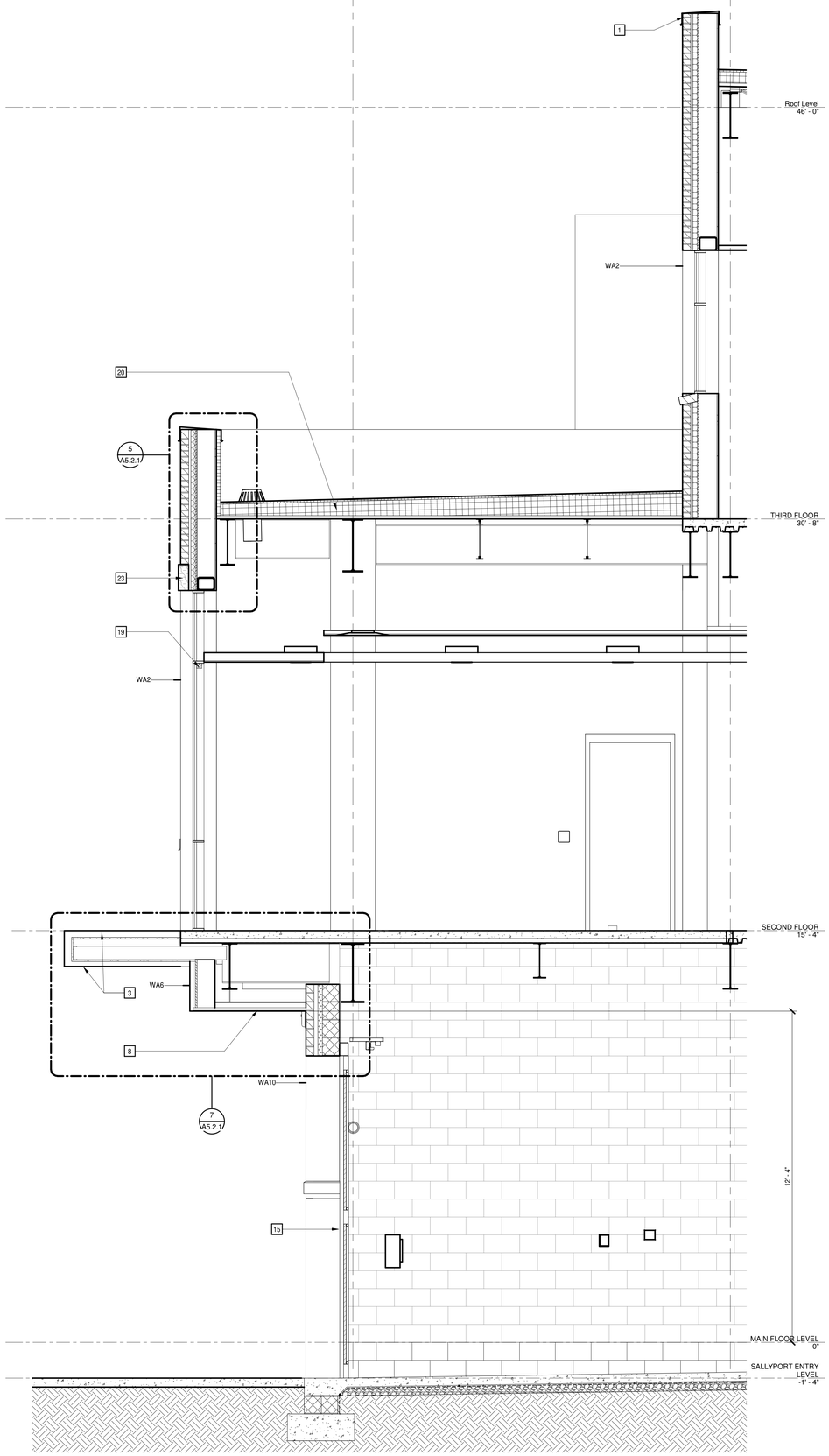

4 A2.1 | A5.1.2 **WALL SECTION 4**
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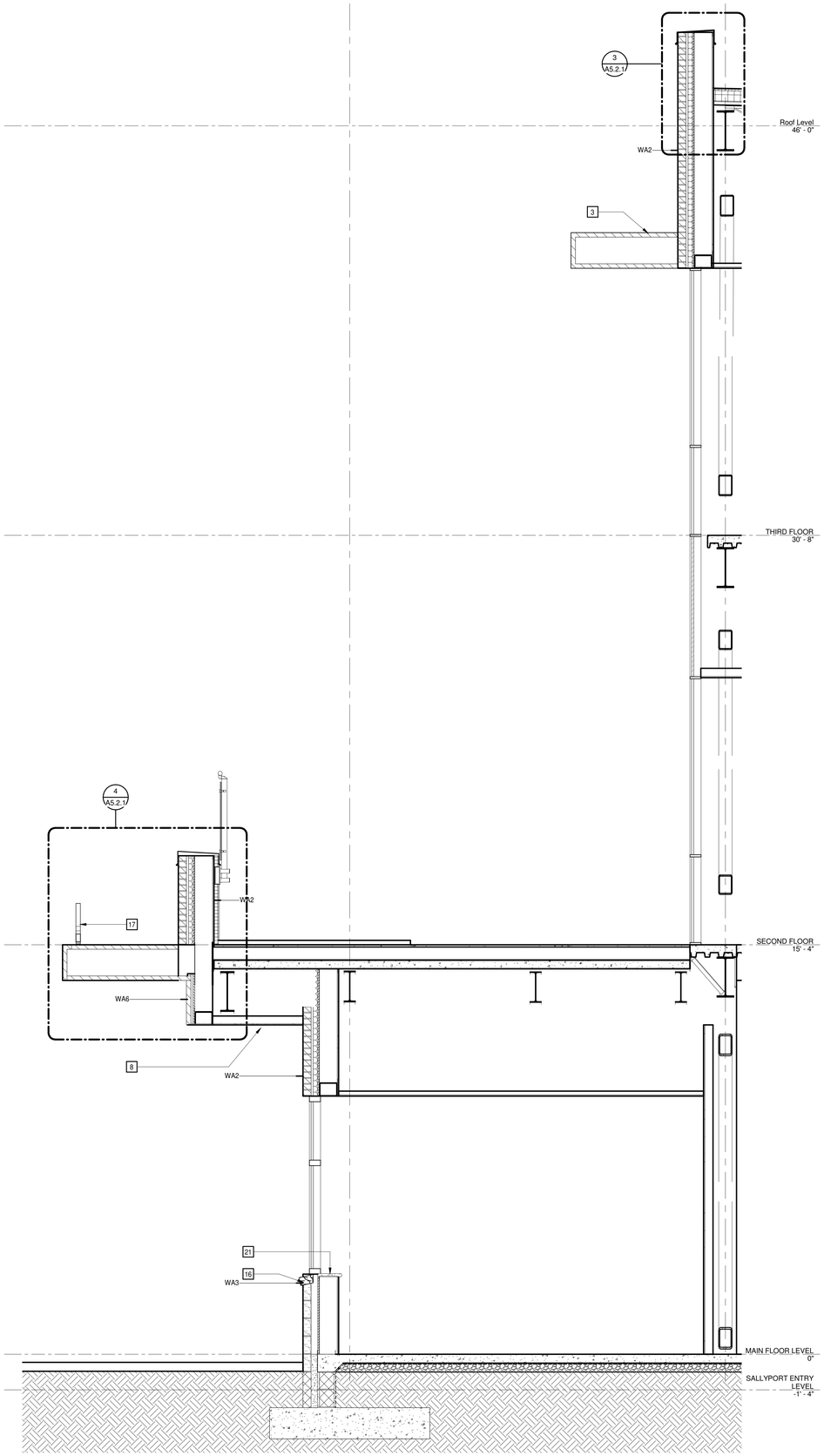

3 A2.1 | A5.1.2 **WALL SECTION 3**
1/2" = 1'-0"

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A5.1.2

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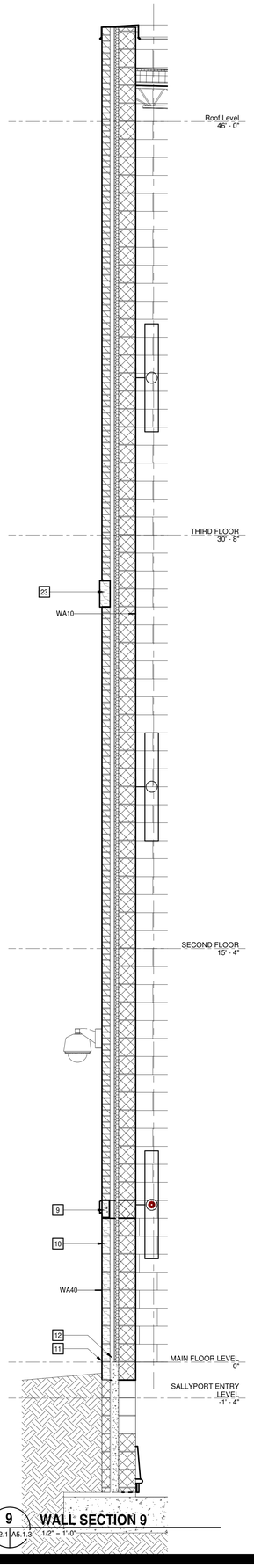
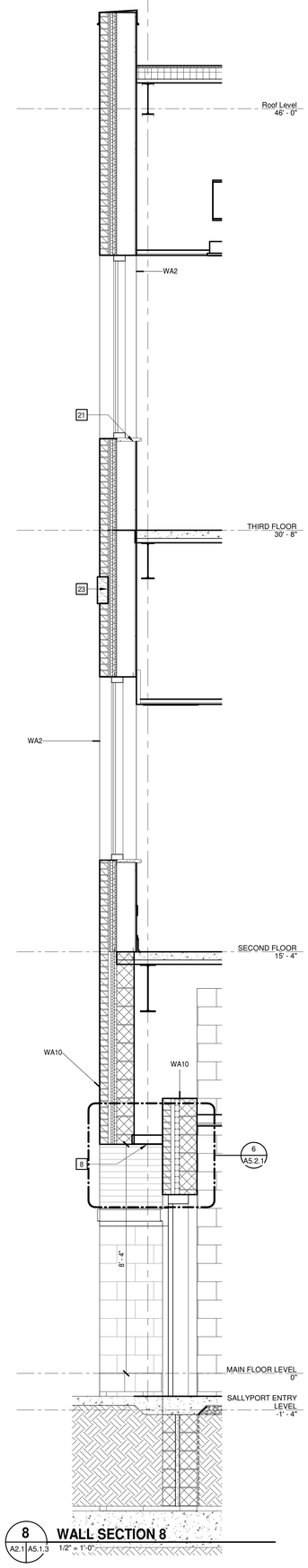
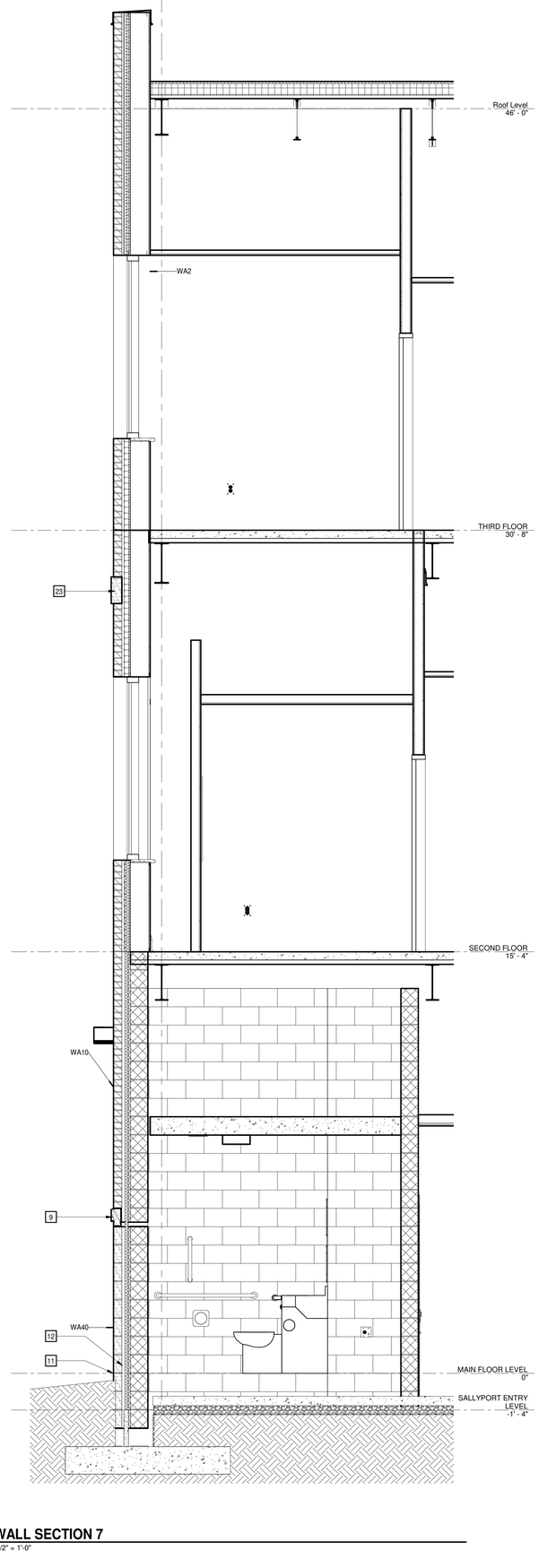


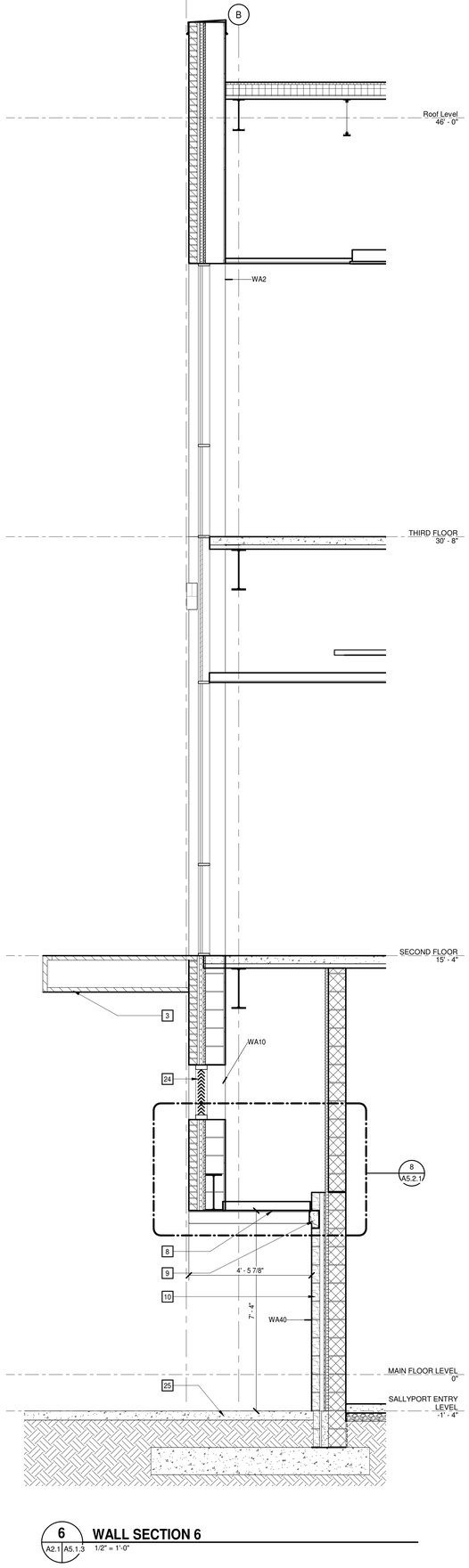
9 WALL SECTION 9
A2.1 A5.1.3 1/2" = 1'-0"



8 WALL SECTION 8
A2.1 A5.1.3 1/2" = 1'-0"



7 WALL SECTION 7
A2.1 A5.1.3 1/2" = 1'-0"



6 WALL SECTION 6
A2.1 A5.1.3 1/2" = 1'-0"

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A5.1.3

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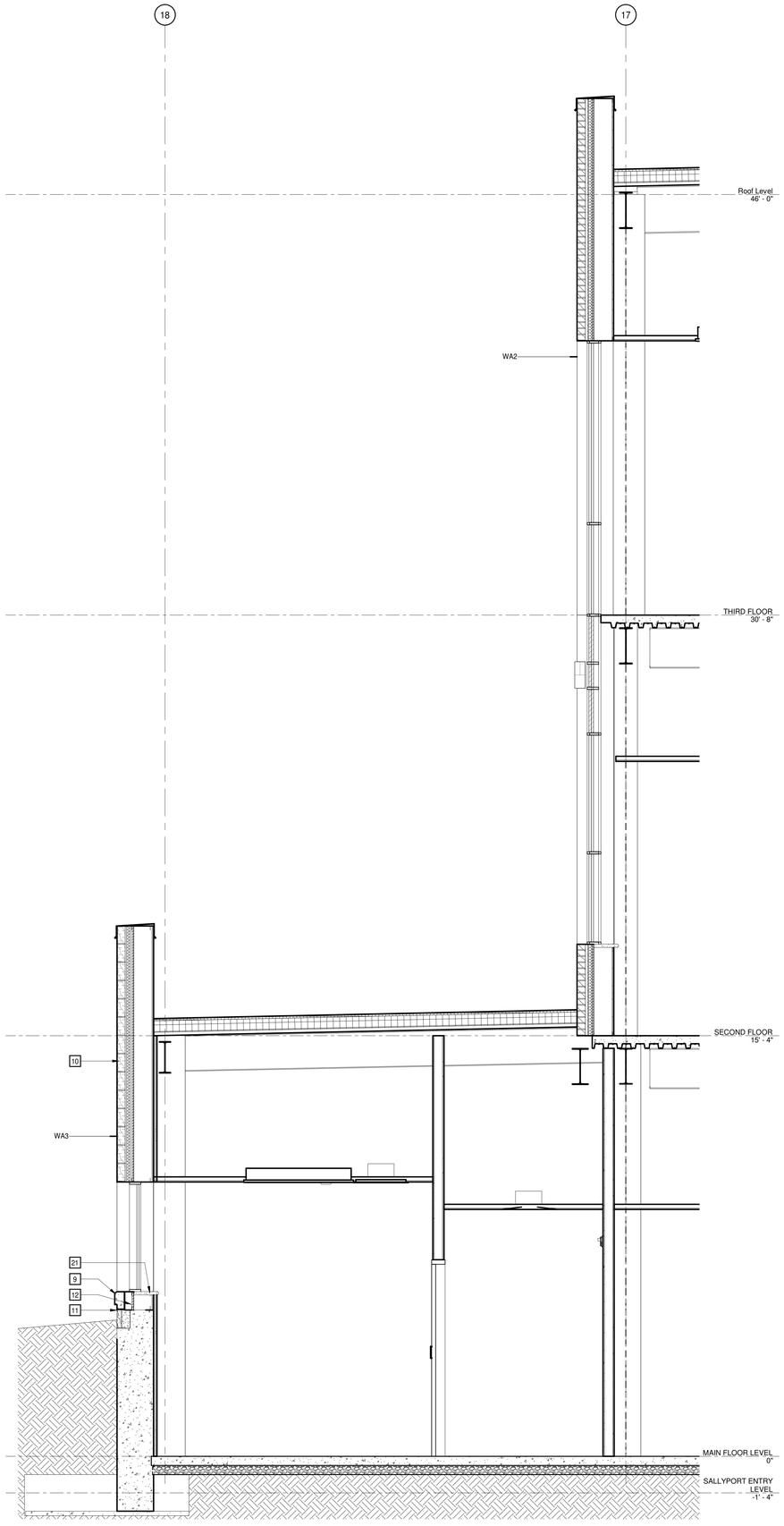
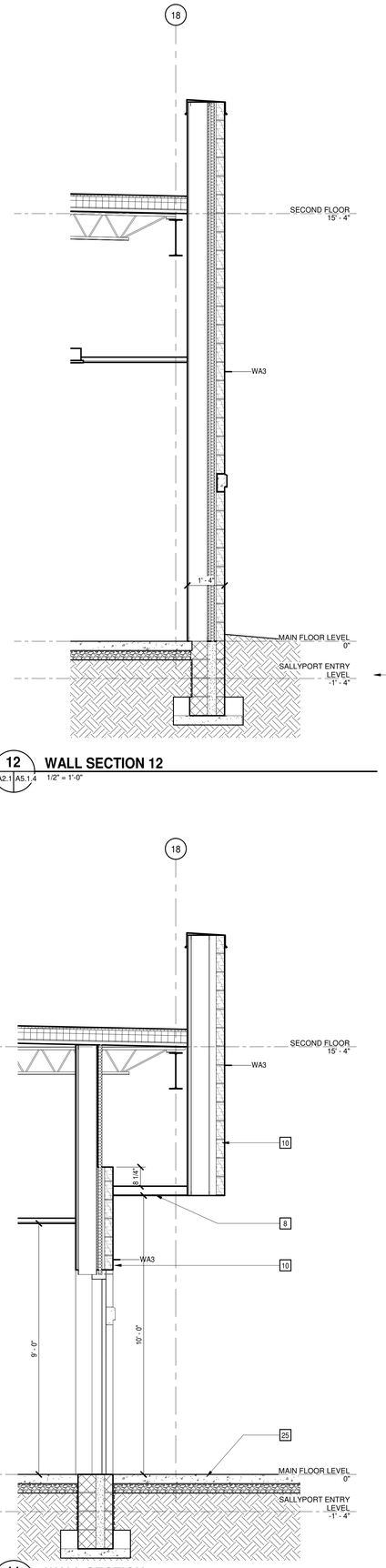
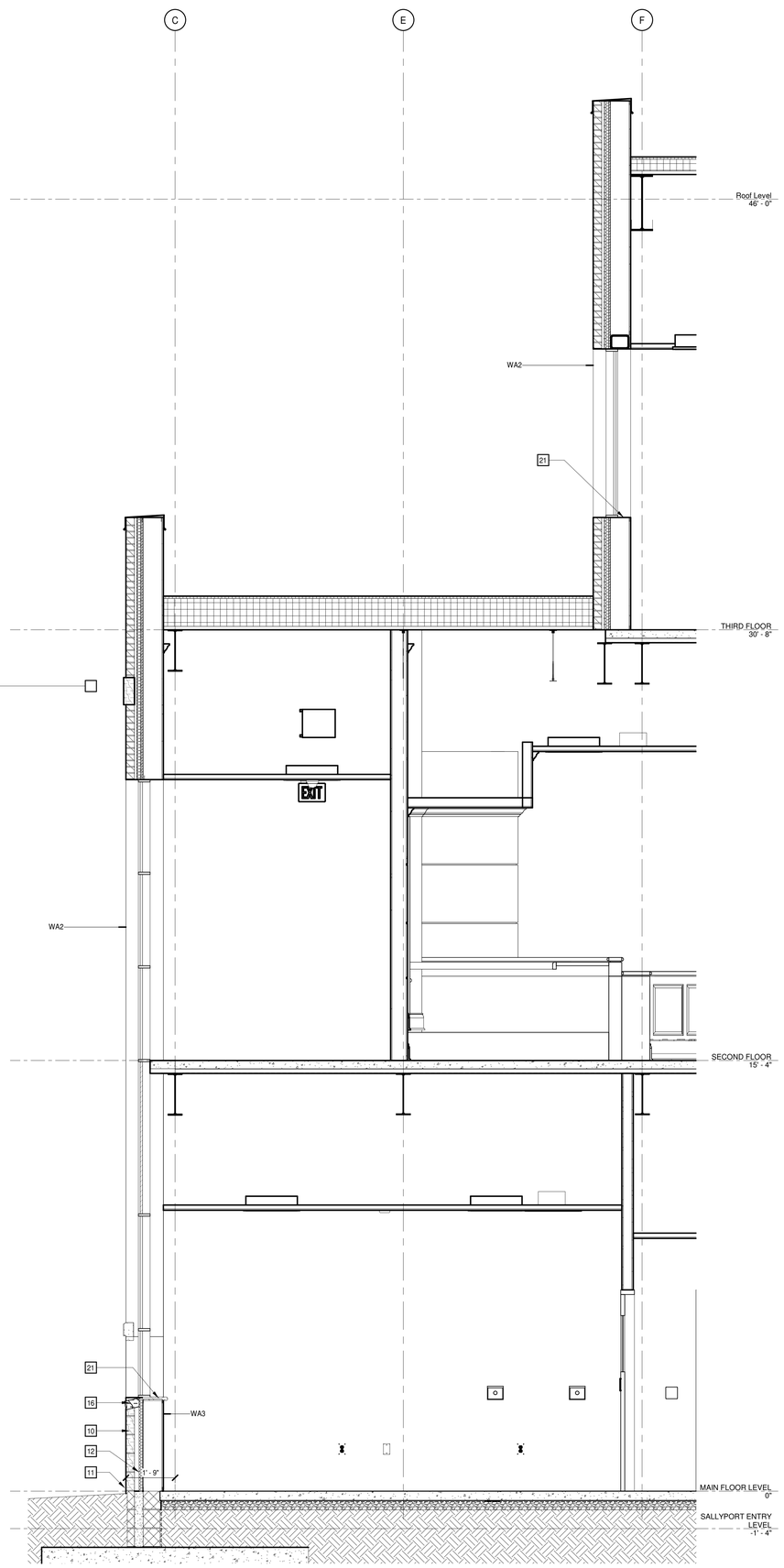


13 A2.1 A5.1.4 **WALL SECTION 13**
1/2" = 1'-0"



12 A2.1 A5.1.4 **WALL SECTION 12**
1/2" = 1'-0"

11 A2.1 A5.1.4 **WALL SECTION 11**
1/2" = 1'-0"



10 A2.1 A5.1.4 **WALL SECTION 10**
1/2" = 1'-0"

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A5.1.4

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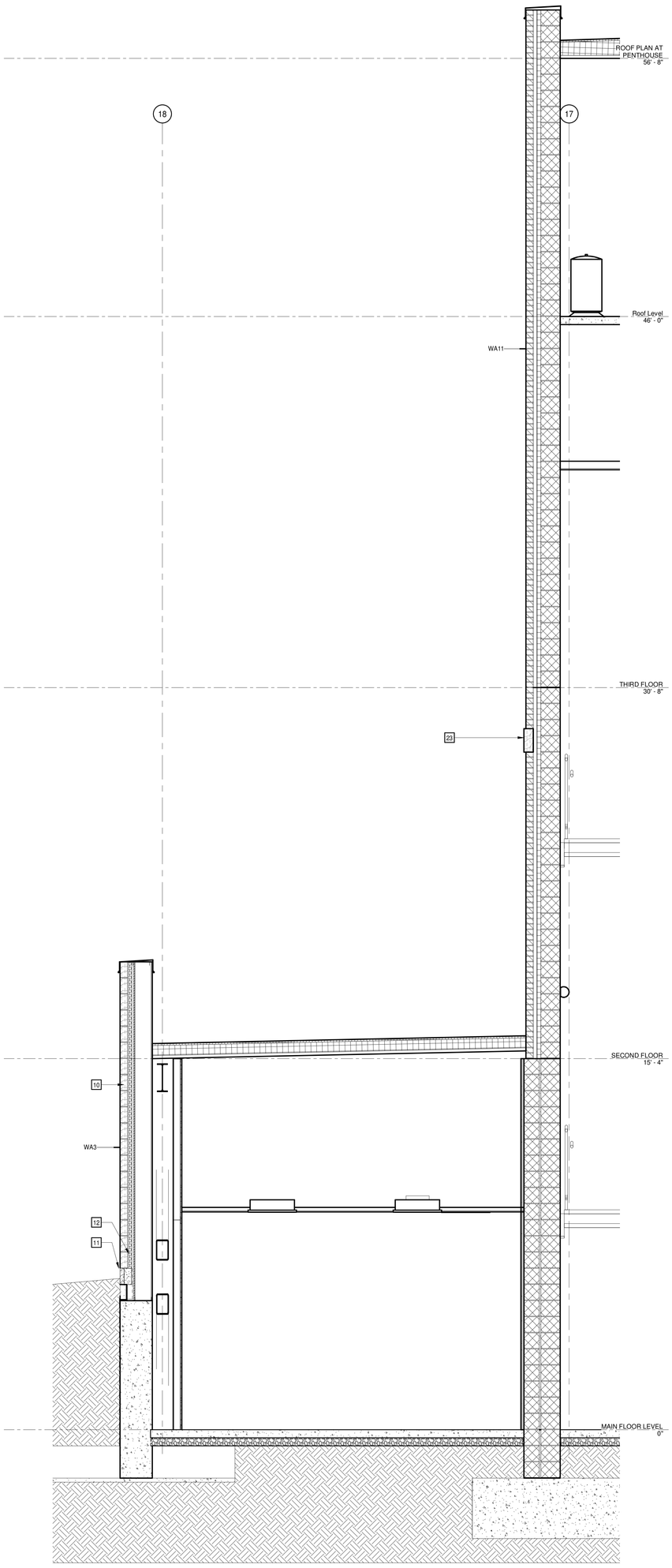
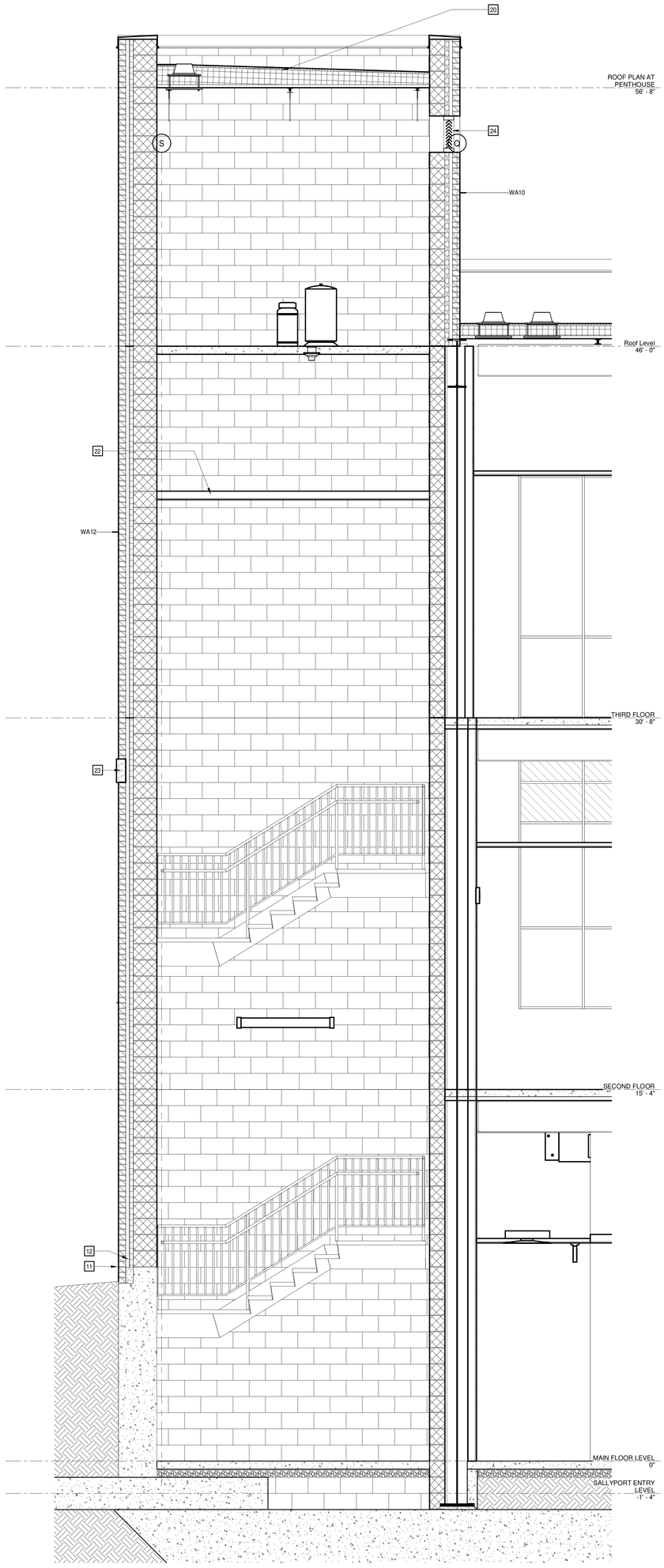


14 A2.1 A5.1.5 **WALL SECTION 14** 1/2" = 1'-0"



15 A2.1 A5.1.5 **WALL SECTION 15** 1/2" = 1'-0"

A5.1.5

WALL SECTIONS

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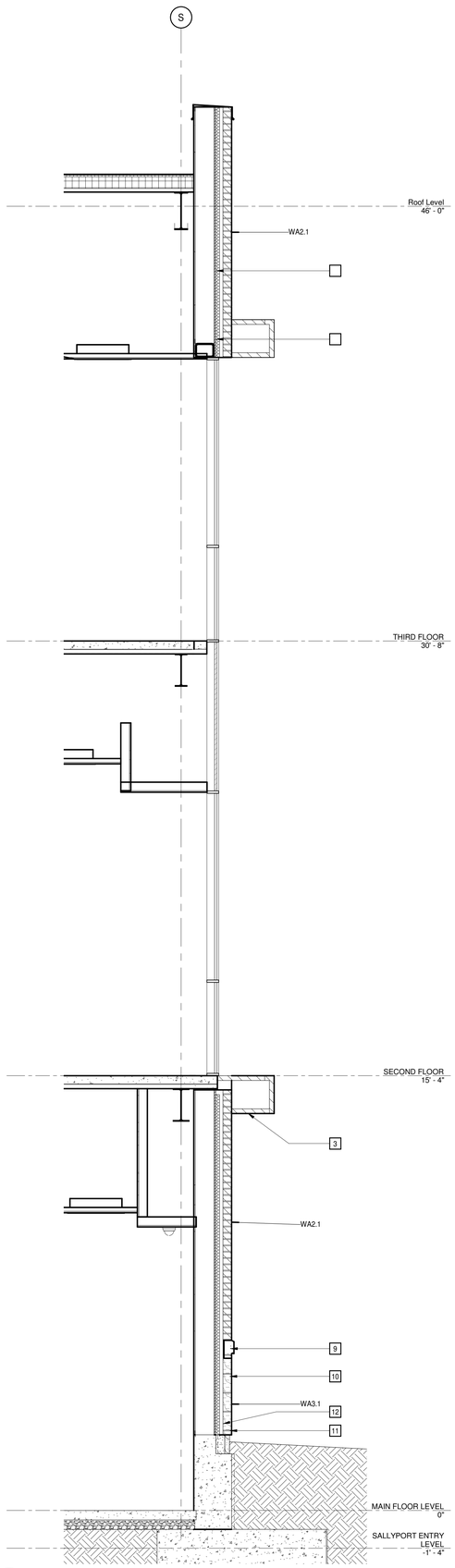
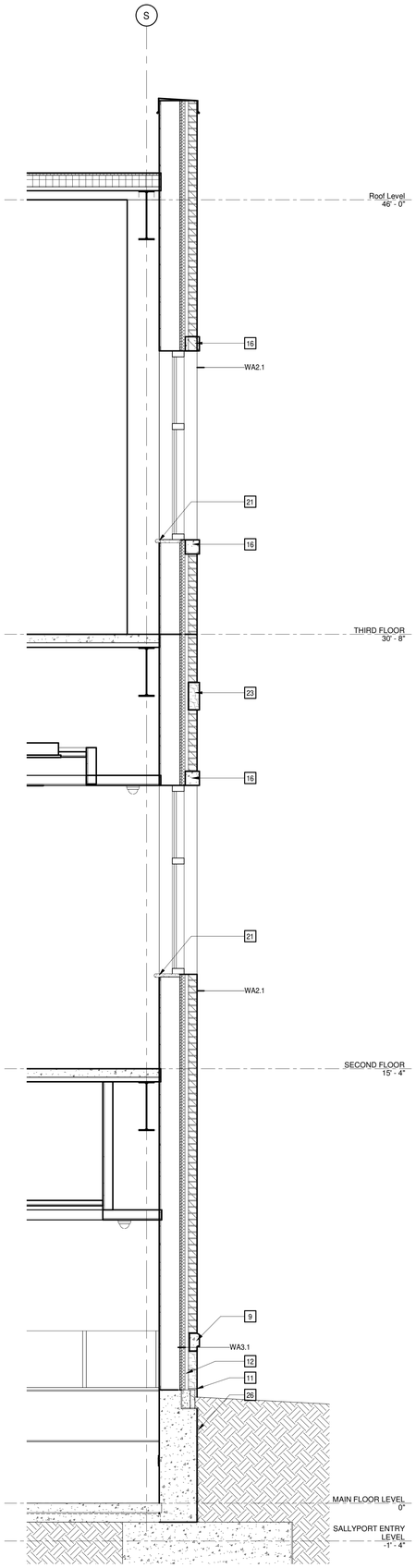
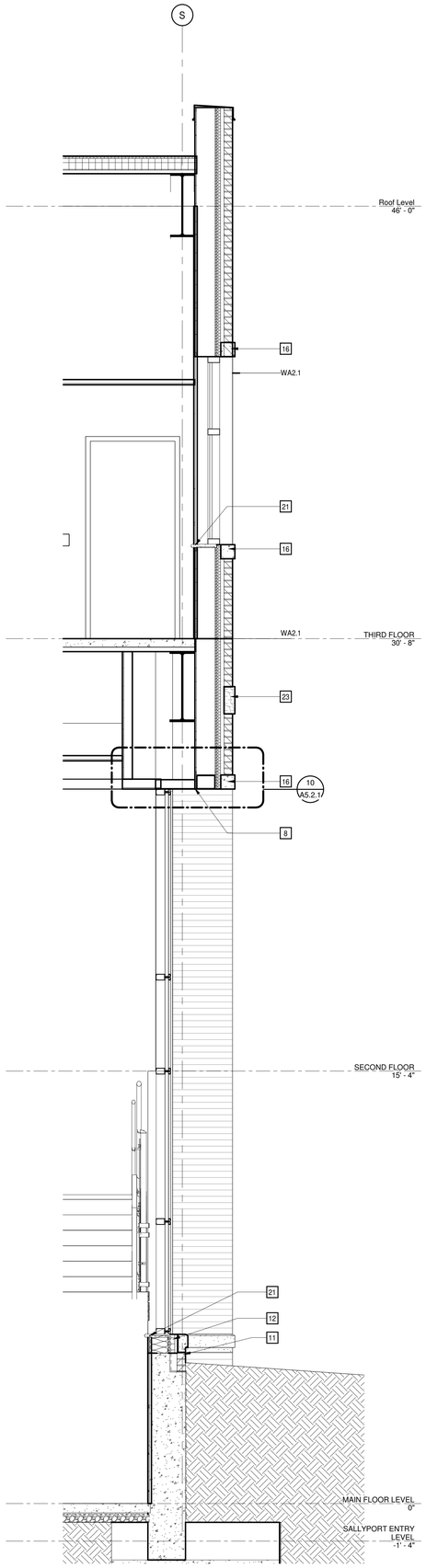


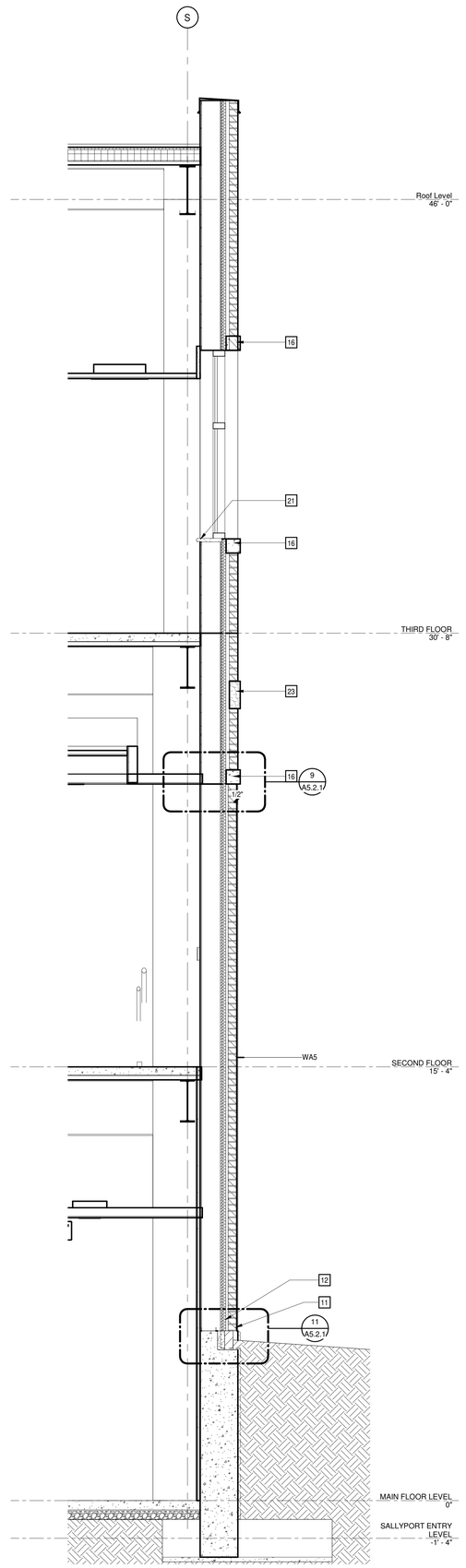
19 A2.1 A5.1.6 **WALL SECTION 19**
1/2" = 1'-0"



18 A2.1 A5.1.6 **WALL SECTION 18**
1/2" = 1'-0"



17 A2.1 A5.1.6 **WALL SECTION 17**
1/2" = 1'-0"



16 A2.1 A5.1.6 **WALL SECTION 16**
1/2" = 1'-0"

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A5.1.6

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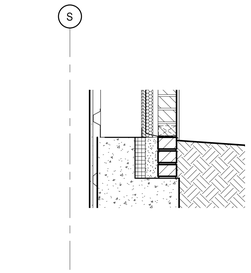
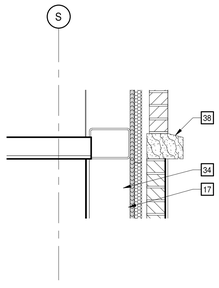
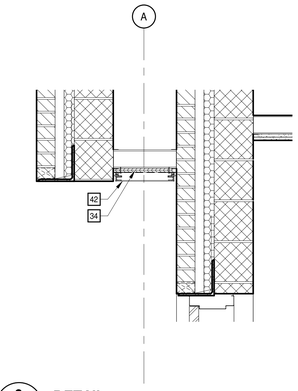


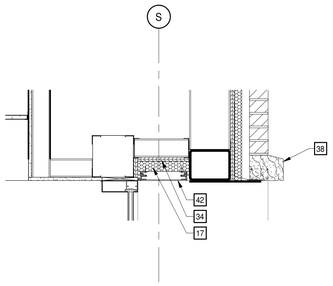
11 DETAIL
A5.1.6 A5.2.1 1" = 1'-0"



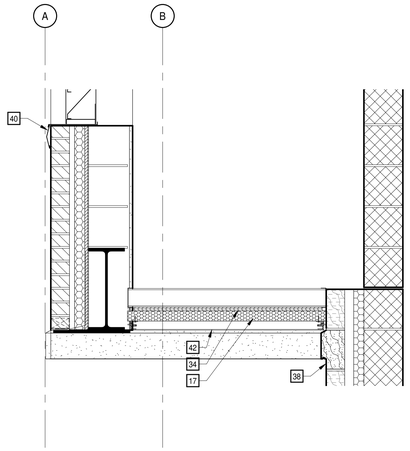
9 DETAIL
A5.1.6 A5.2.1 1" = 1'-0"



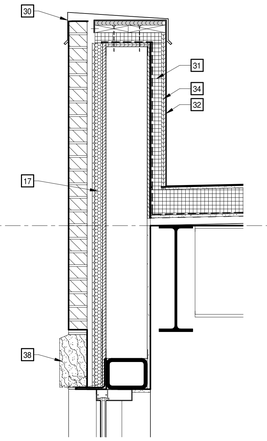
6 DETAIL
A5.1.3 A5.2.1 1" = 1'-0"



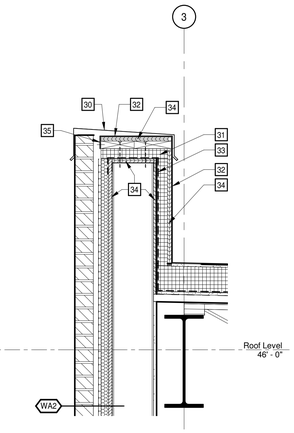
10 DETAIL
A5.1.6 A5.2.1 1" = 1'-0"



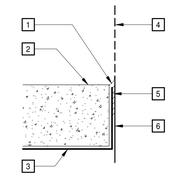
8 DETAIL
A5.1.3 A5.2.1 1" = 1'-0"



5 DETAIL
A5.1.2 A5.2.1 1" = 1'-0"



3 TYPICAL PARAPET DETAIL
THIRD FLOOR 30' - 8" A5.1.2 A5.2.1 1" = 1'-0"



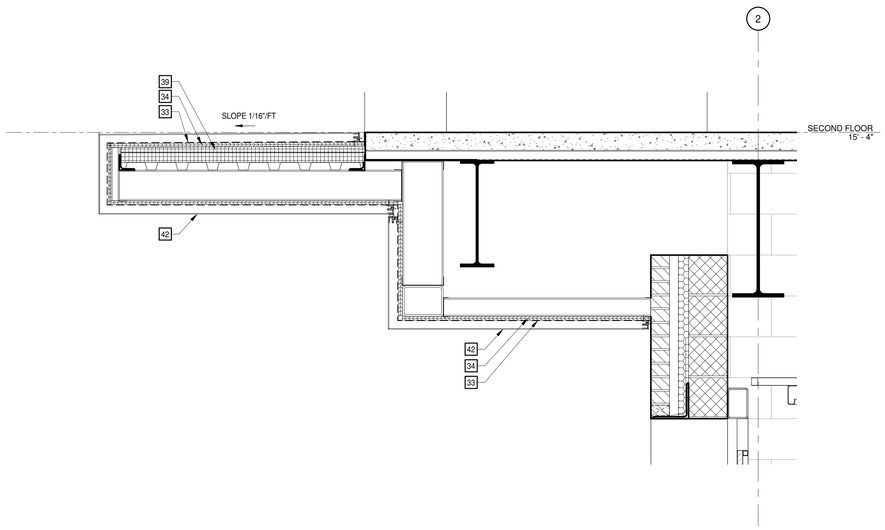
ALL INTERIOR SLAB-ON-GRADE TO VERTICAL ELEMENT CONDITIONS

2 SLAB-ON-GRADE BOUNDARY CONDITIONS
A5.2.1 NO SCALE

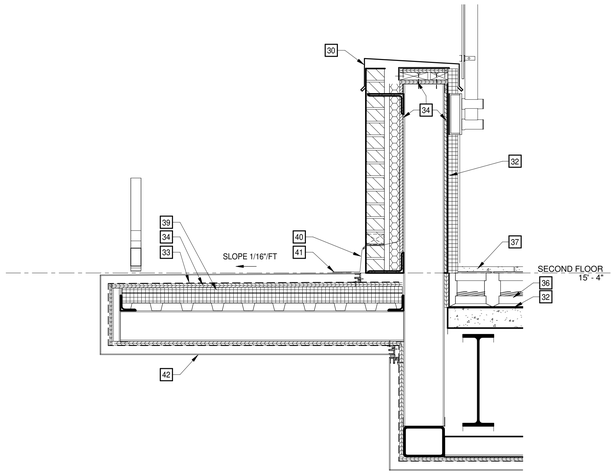
KEYNOTES

APPLIES TO DRAWING A5.2.1
REPRESENTED BY n

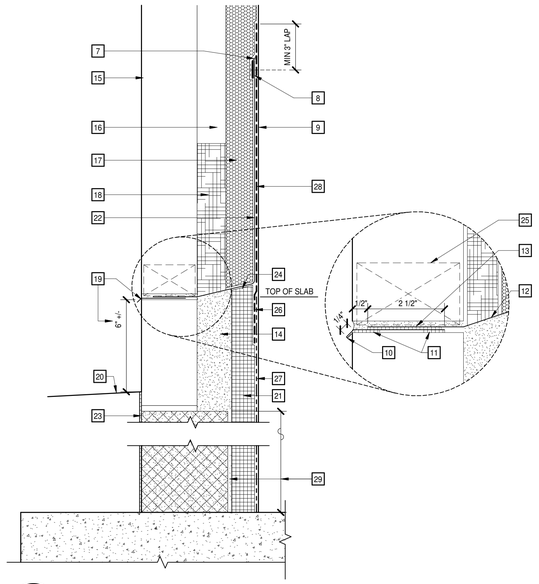
1. SEALANT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION
2. FINISH VARIES
3. VAPOR BARRIER
4. VERTICAL ELEMENT WHERE CONTINUES
5. CONTINUOUS MFR COMPANION SEALER / ADHESIVE / TAPE
6. VERTICAL ELEMENT
7. CONTINUOUS SEAL AT TOP OF TERMINATION BAR
8. CONTINUOUS TERMINATION BAR
9. FACE OF INNER WYTHE OF EXTERIOR WALL
10. METAL DRIP EDGE WITH HEMMED EDGES, FORM DRIP (TURN DOWN IMMEDIATELY AT FACE OF WALL - DO NOT PROVIDE A FLAT SURFACE BEFORE FORMING DRIP)
11. SET METAL EDGE IN THIN SLURRY OF MORTAR OR BEADS OF SEALANT AS RECOMMENDED BY THE FLEXIBLE FLASHING MANUFACTURER
12. SLOPE GROUT BELOW EMBEDDED FLEXIBLE FLASHING TO MAINTAIN POSITIVE DRAINAGE TO WEEP
13. SEAL EMBEDDED FLEXIBLE FLASHING TO METAL DRIP EDGE
14. GROUT SOLID BELOW EMBEDDED FLEXIBLE FLASHING
15. VENEER
16. MAINTAIN CAVITY AIR SPACE CLEAN AND CLEAR
17. SPF - ALSO SERVES AS AIR BARRIER
18. CAVITY DRAINAGE MATERIAL, THICKNESS AS REQUIRED TO FILL AIR SPACE, HARD AGAINST BACKSIDE OF VENEER AND FACE OF CAVITY INSULATION
19. STEP FLASHING ASSEMBLY AS REQUIRED TO MAINTAIN DIMENSIONAL RELATIONSHIP WITH FINISH GRADE
20. FINISH GRADE VARIES
21. 1 1/2" RIGID INSULATION
22. EMBEDDED FLEXIBLE FLASHING
23. PROTECTION BOARD
24. TAPER TOP OF RIGID BOARD CAVITY-WALL INSULATION
25. CELLULAR VENT/WEEPS IMMEDIATELY ABOVE FLASHING
26. LAP AIR BARRIER TRANSITION STRIP OVER DAMPPROOFING 3" MIN TO MAINTAIN AIR BARRIER CONTINUITY
27. DAMPPROOFING - START AT TOP OF SLAB-ON-GRADE ELEVATION AND EXTEND DOWN TO TOP OF FOOTING
28. AIR BARRIER TRANSITION STRIP
29. PARGE/BUTTER BACKSIDE OF CMU TO COMPLETELY FILL VOID BETWEEN CMU AND INSULATION
30. PREFINISHED MTL COPING
31. CONT 2" RIGID INSULATION
32. ROOF MEMBRANE
33. DASHED LINE INDICATES AIR BARRIER MEMBRANE
34. 3/4" EXTERIOR GRADE PLYWOOD
35. CONT TERMINATION BAR AT ROOF MEMBRANE
36. PAVER PEDASTELS
37. CONCRETE PAVERS
38. PRECAST STONE
39. TAPERED INSULATION.
40. TWO-PIECE THRU-WALL FLASHING.
41. SET FLASHING IN FULL BED OF SEALANT.
42. PREFINISHED METAL PANEL SYSTEM.



7 DETAIL
A5.1.2 A5.2.1 1" = 1'-0"



4 DETAIL
A5.1.2 A5.2.1 1" = 1'-0"



1 BASE-OF-EXTERIOR CAVITY WALL
A5.2.1 NO SCALE

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NEW HANOVER COUNTY
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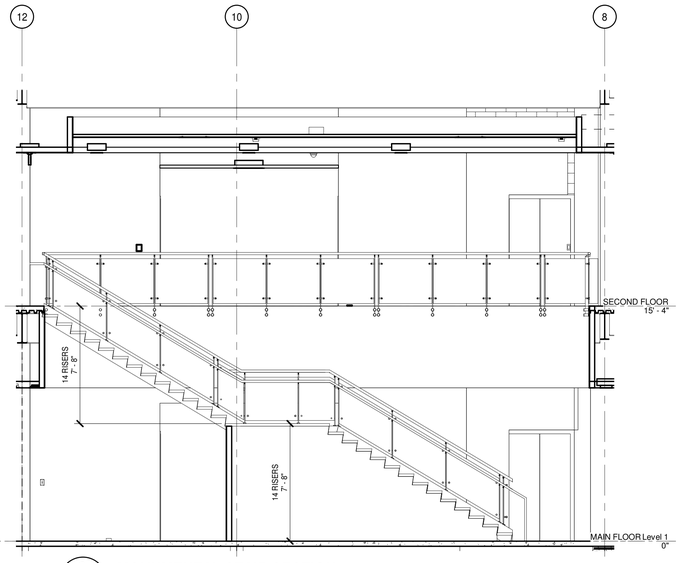
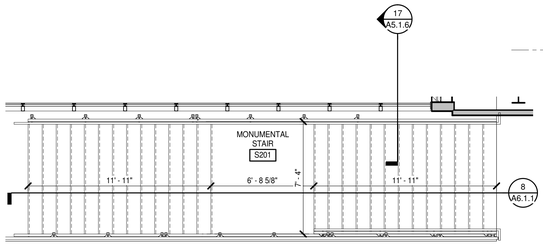
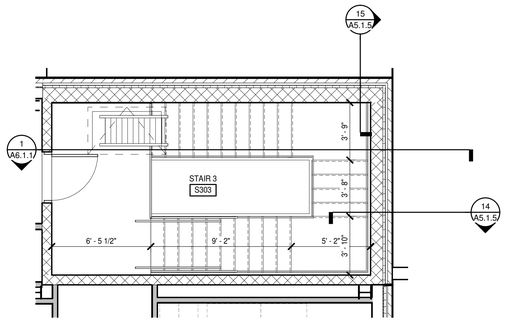


8 MONUMENTAL STAIR SECTION
A2.1 A6.1.1 — 1/4" = 1'-0"



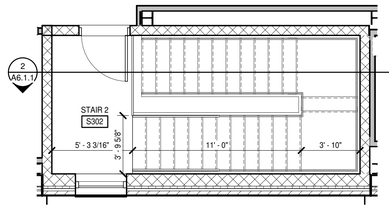
3 MONUMENTAL STAIR SECTION
A2.2 A6.1.1 — 1/4" = 1'-0"



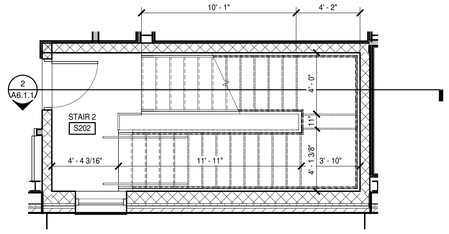
9 ENLARGED STAIR 3 PLAN - THIRD FLOOR
A2.3 A6.1.1 — 1/4" = 1'-0"

10 ENLARGED STAIR 3 PLAN - SECOND FLOOR
A2.2 A6.1.1 — 1/4" = 1'-0"

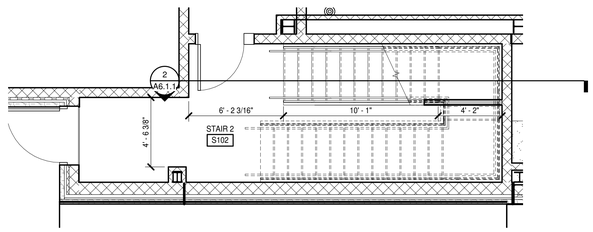
11 ENLARGED STAIR 3 PLAN - FIRST FLOOR
A2.1 A6.1.1 — 1/4" = 1'-0"



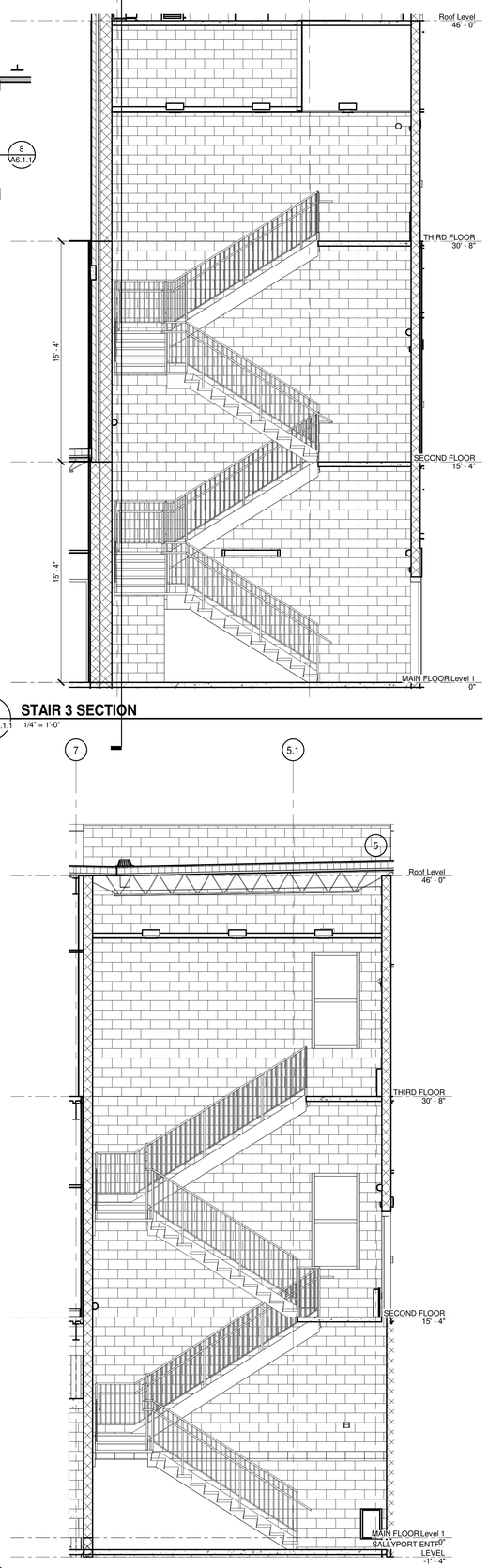
5 ENLARGED STAIR 2 PLAN - THIRD FLOOR
A2.3 A6.1.1 — 1/4" = 1'-0"



6 ENLARGED STAIR 2 PLAN - SECOND FLOOR
A2.2 A6.1.1 — 1/4" = 1'-0"



7 ENLARGED STAIR 2 PLAN - FIRST FLOOR
A2.1 A6.1.1 — 1/4" = 1'-0"



2 STAIR SECTION
A2.1 A6.1.1 — 1/4" = 1'-0"

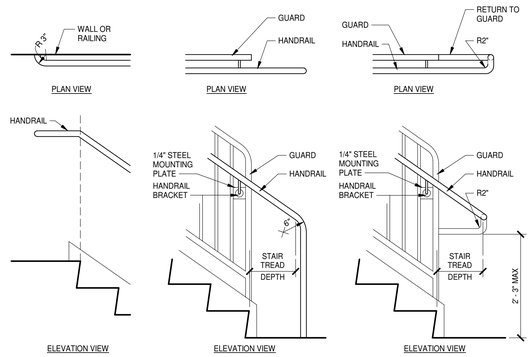
STAIR AND RAMP GENERAL NOTES

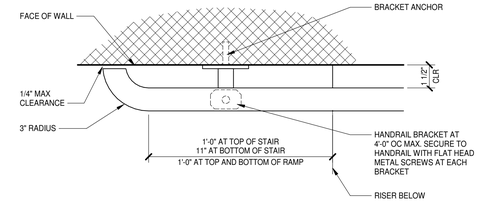
A. ALL RAILING INFILL PANELS: 3/4" X 3/4" STL BARS, UNO

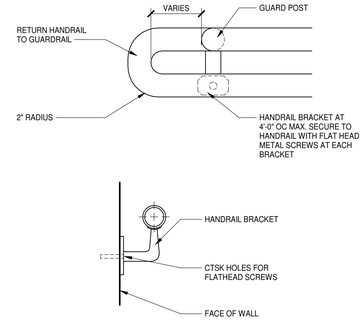
B. TOP OF HANDRAIL: 3'-0" ABOVE EDGE OF RISERS AND FINISH FLOOR

C. TOP OF GUARDS: 3'-7" ABOVE EDGE OF RISERS AND FINISH FLOOR

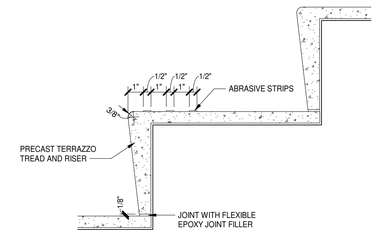
D. ALL RAILING: 1 1/4" STL PIPE, UNO







HANDRAIL DETAILS
NO SCALE



TERRAZZO TREAD-RISER DETAIL
NO SCALE

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

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ENLARGED STAIR & RAMP DETAILS

A6.1.1

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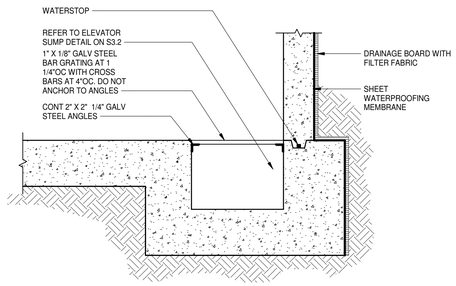
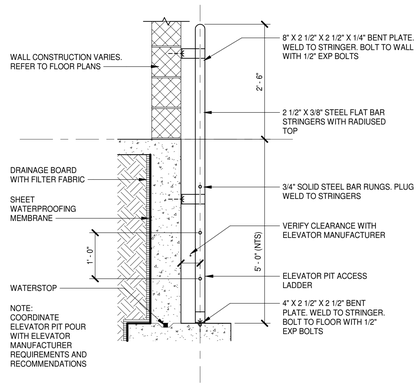
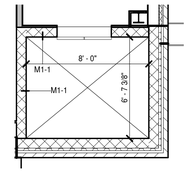


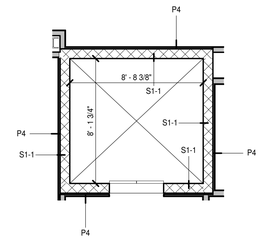
11 A6.1.2 **DETAIL - SUMP PUMP GRATE**
3/4" = 1'-0"



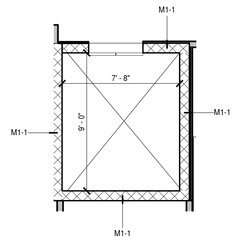
10 A6.1.2 **DETAIL - ELEVATOR ACCESS LADDER**
3/4" = 1'-0"



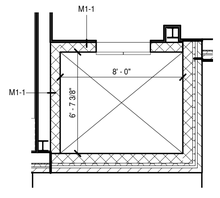
9 A2.3 A6.1.2 **ENLARGED ELEVATOR PLAN**
1/4" = 1'-0"



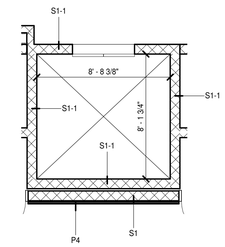
8 A2.3 A6.1.2 **ENLARGED ELEVATOR PLAN**
1/4" = 1'-0"



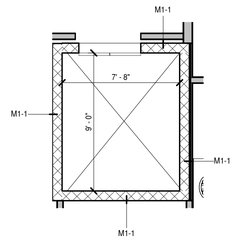
7 A2.3 A6.1.2 **ENLARGED ELEVATOR PLAN**
1/4" = 1'-0"



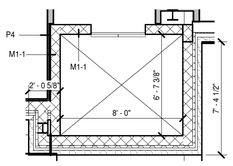
6 A2.2 A6.1.2 **ENLARGED ELEVATOR PLAN**
1/4" = 1'-0"



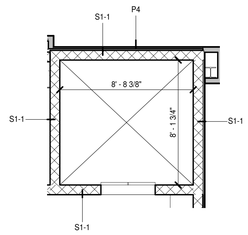
5 A2.2 A6.1.2 **ENLARGED ELEVATOR PLAN**
1/4" = 1'-0"



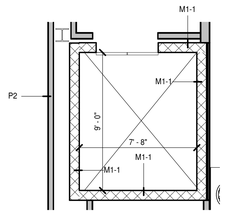
4 A2.2 A6.1.2 **ENLARGED ELEVATOR PLAN**
1/4" = 1'-0"



3 A2.1 A6.1.2 **ENLARGED ELEVATOR PLAN**
1/4" = 1'-0"



2 A2.1 A6.1.2 **ENLARGED ELEVATOR PLAN**
1/4" = 1'-0"



1 A2.1 A6.1.2 **ENLARGED ELEVATOR PLAN**
1/4" = 1'-0"

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ENLARGED ELEVATOR PLANS

A6.1.2

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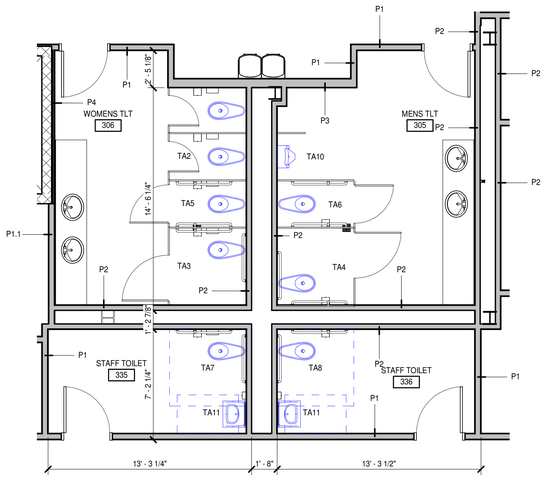
TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLAN GENERAL NOTES

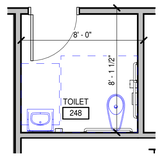
A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. CLEAR DIMENSIONS ARE TO FACE OF APPLIED WALL AND PARTITION FINISHES.

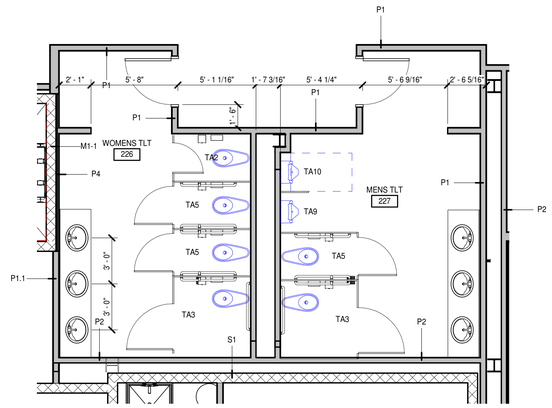
C. PROVIDE SSM COUNTER WITH INTEGRAL SINK AND REMOVEABLE BARRIER-FREE PLAM SINK PANEL IN THE FOLLOWING SPACES: 131, 132, 226, 227, 305, 306. REFER TO SECTION 14/A8.1.



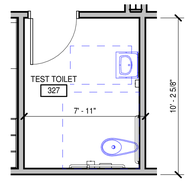
4 ENLARGED THIRD FLOOR PLAN
A2.3 A7.1.1 — 1/4" = 1'-0"



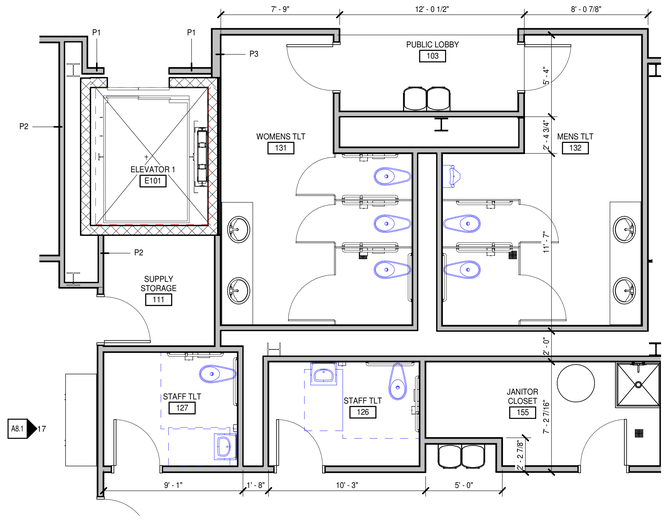
67 ENLARGED PLAN OF TOILET 248
A2.2 A7.1.1 — 1/4" = 1'-0"



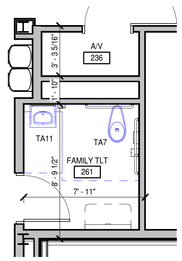
5 ENLARGED SECOND FLOOR PLAN
A2.2 A7.1.1 — 1/4" = 1'-0"



2 ENLARGED PLAN OF TEST TOILET 327
A2.3 A7.1.1 — 1/4" = 1'-0"



6 ENLARGED FIRST FLOOR PLAN
A2.1 A7.1.1 — 1/4" = 1'-0"



3 ENLARGED PLAN OF FAMILY TOILET
A2.2 A7.1.1 — 1/4" = 1'-0"

TOILET ASSEMBLIES

APPLIES TO DRAWINGS A7.1 - A7.nn
REPRESENTED BY (TAn)

MARK	REMARKS	PLAN
TA1		2' - 10" CLEAR, UNO; D, E; 5' - 0" CLEAR; * 1'-3" MIN; TOILET PARTITION OR WALL; WATER CLOSET
TA2	OMIT (E)	
BARRIER FREE TA3		5' - 0" CLEAR; 4" MAX; B, C, D, E, A; 5' - 0" CLEAR; 1'- 5"; TOILET PARTITION OR WALL; WATER CLOSET
BARRIER FREE TA4	OMIT (E)	
BARRIER FREE TA5		3' - 0" CLEAR; B, C, D, E; 5' - 0" CLEAR; TOILET PARTITION; 1' - 6"; TOILET PARTITION OR WALL; WATER CLOSET
BARRIER FREE TA6	OMIT (E)	
BARRIER FREE TA7		B, C, D, E, A; WATER CLOSET
BARRIER FREE TA8	OMIT (E)	
TA9		2' - 6" CLR; UNO; URINAL SCREEN; WALL, TOILET PARTITION, OR URINAL SCREEN; 1' - 10"; 1'-3" MIN; 1'-3" MIN; URINAL

MARK	REMARKS	PLAN
BARRIER FREE TA10		3' - 0" CLEAR; URINAL SCREEN; WALL, TOILET PARTITION, OR URINAL SCREEN; 1' - 10"; 1'-6" MIN; 1'-6" MIN; URINAL
TA11	CENTER (G) OVER LAVATORY	G, F; LAVATORY
BARRIER FREE TA12		C, J, L, H; 3' - 0" CLR INSIDE; SEAT WALL
TA13	OMIT (C, H, J)	CONTROL WALL; 3' - 0" CLR INSIDE; SHOWER - TRANSFER STYLE
BARRIER FREE TA14		CONTROL WALL; 5' - 0" CLR INSIDE; 2' - 6" CLR INSIDE; N, L, K, N; SHOWER - ROLL-IN STYLE
BARRIER FREE TA15		C, P, L, M, N; 2' - 6" CLR INSIDE; CONTROL WALL; 5' - 0" CLR INSIDE; BATHTUB

LEGEND NOTES:

A. HANDING/ORIENTATION MAY VARY. REFER TO PLANS FOR PROPER ORIENTATION.

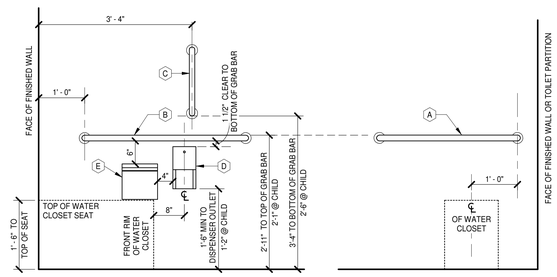
B. PLUMBING FIXTURE GRAPHICS IN THIS LEGEND ARE REPRESENTATIVE ONLY. ACTUAL PLUMBING FIXTURES MAY VARY.

C. COAT/ROBE HOOKS INDICATED ON THE BACK OF TOILET COMPARTMENT DOORS ARE PART OF THE TOILET COMPARTMENT ASSEMBLY AND ARE NOT CONSIDERED A TOILET ACCESSORY.

TOILET ACCESSORIES SCHEDULE

MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
A	36" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
B	42" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
C	18" VERTICAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D	TOILET TISSUE DISPENSER	REFER TO WATER CLOSET ELEVATIONS	
E	SANITARY NAPKIN DISPOSAL	REFER TO WATER CLOSET ELEVATIONS	
F	SOAP DISPENSER	3'-4" AFF TO DISPENSING OUTLET	
G	MIRROR (18" x 36"), OVER LAV AND CONTERTOP	3'-4" AFF TO BOTTOM OF REFLECTIVE SURFACE	

1. ACCESSORY ITEMS ARE IDENTIFIED BY ⬡ ON PLANS. LETTERS CORRESPOND TO SCHEDULE ABOVE.
2. ACTUAL DIMENSIONS OF ACCESSORIES MAY VARY. COORDINATE DIFFERENCES, IF ANY.
3. REFER TO ALL CASEWORK ELEVATIONS FOR ADDITIONAL TOILET ACCESSORY LOCATIONS.
4. PROVIDE MOP AND BROOM HOLDER W/ SHELF ⬡ AT ALL CUSTODIAL/JANITORIAL SINKS. MOUNT AT 5'-0" AFF TO CENTERLINE AND LOCATE ON SIDE WALL OF SINK (NOT ON WALL ABOVE FAUCET).
5. PROVIDE ROBE HOOK ON INTERIOR FACE OF ALL TOILET ROOM DOORS WHEREIN ONLY ONE WATER CLOSET IS PROVIDED. MOUNT AT 3'-11" AFF TO TOP.



WATER CLOSET ELEVATIONS
3/4" = 1'-0"

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TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLANS

A7.1.1

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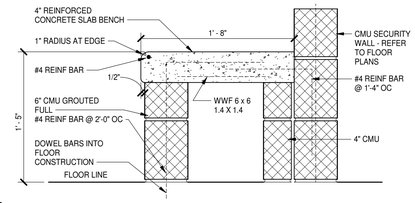
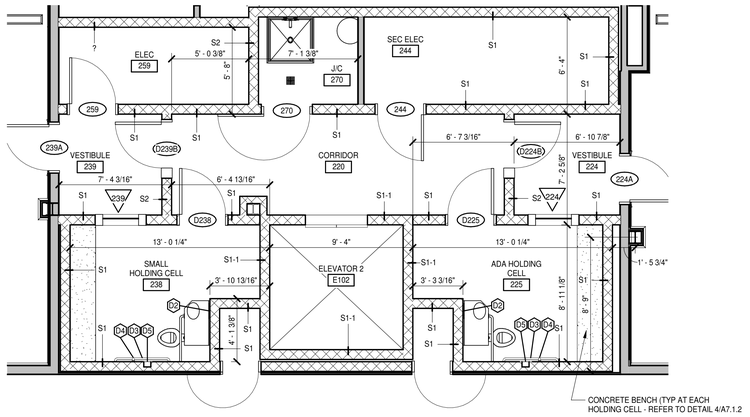
DETENTION EQUIPMENT SCHEDULE

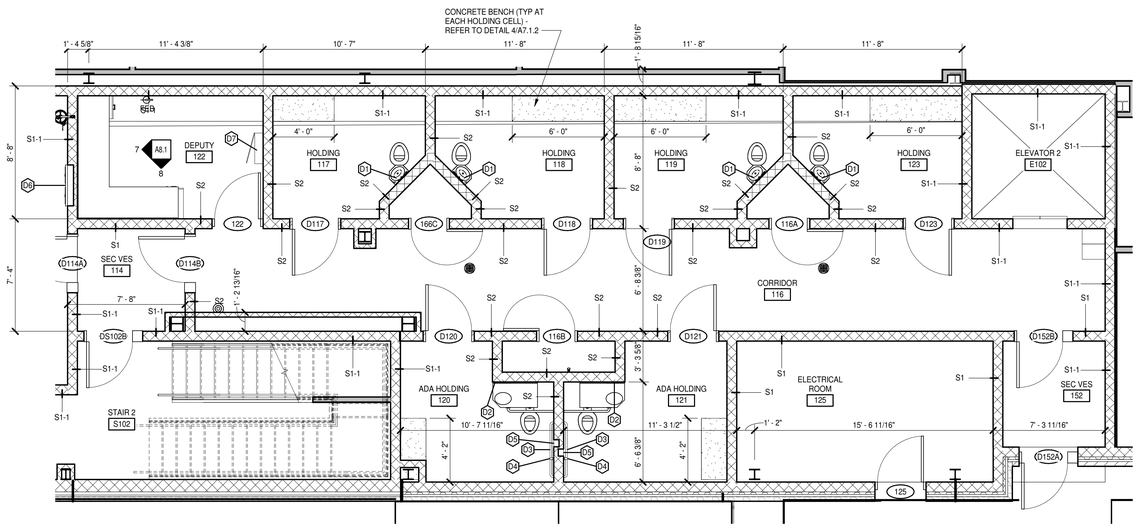
NO	DESCRIPTION	MOUNTING HEIGHT	DETAIL	NOTES
D1	DETENTION MIRROR, SINGLE	REFER TO DETAIL	1/A7.3	
D2	DETENTION MIRROR, DOUBLE	REFER TO DETAIL	2/A7.3	
D3	GRAB BAR, ANTI-LIGATURE, 42"	REFER TO DETAIL	3/A7.3	
D4	18" VERTICAL GRAB BAR, ANTI-LIGATURE	REFER TO WATER CLOSET ELEVATIONS		REFER TO DETAIL 3/A7.3 SIM
D5	RECESSED TOILET PAPER ROLL HOLDER	REFER TO DETAIL	5/A7.3	
D6	PISTOL LOCKER, 4 COMPARTMENT, RECESSED	REFER TO DETAIL	4/A7.3	
D7	KEY CABINET	REFER TO SECTION 111960	---	

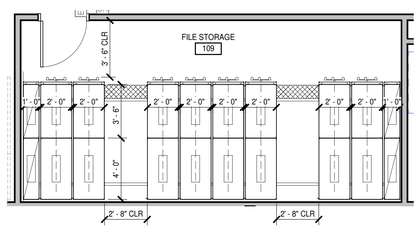


4 TYP A7.1.2 **CONCRETE BENCH**
1 1/2" = 1'-0"



2 A2.2 A7.1.2 **ENLARGED PLAN - SECOND FLOOR HOLDING AREA**
1/4" = 1'-0"





3 A2.1 A7.1.2 **ENLARGED PLAN - FILE STORAGE 109**
1/4" = 1'-0"

1 A2.1 A7.1.2 **ENLARGED PLAN - FIRST FLOOR HOLDING AREA**
1/4" = 1'-0"

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ENLARGED PLANS

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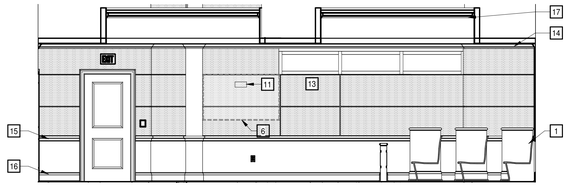
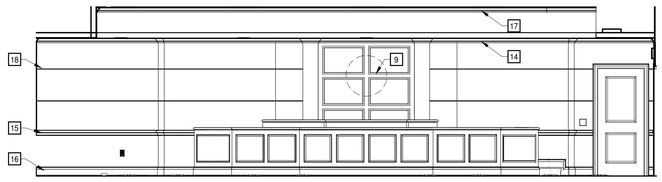
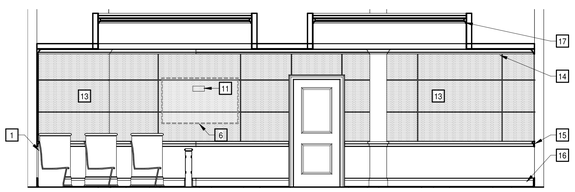


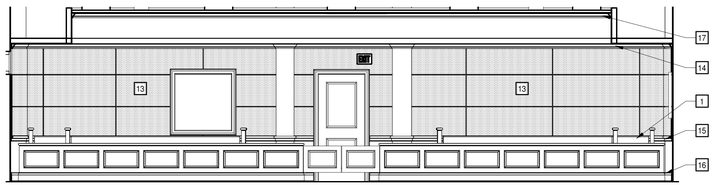
5 A7.1.1 A7.2.1 **WEST ELEVATION COURTROOM A**
1/4" = 1'-0"



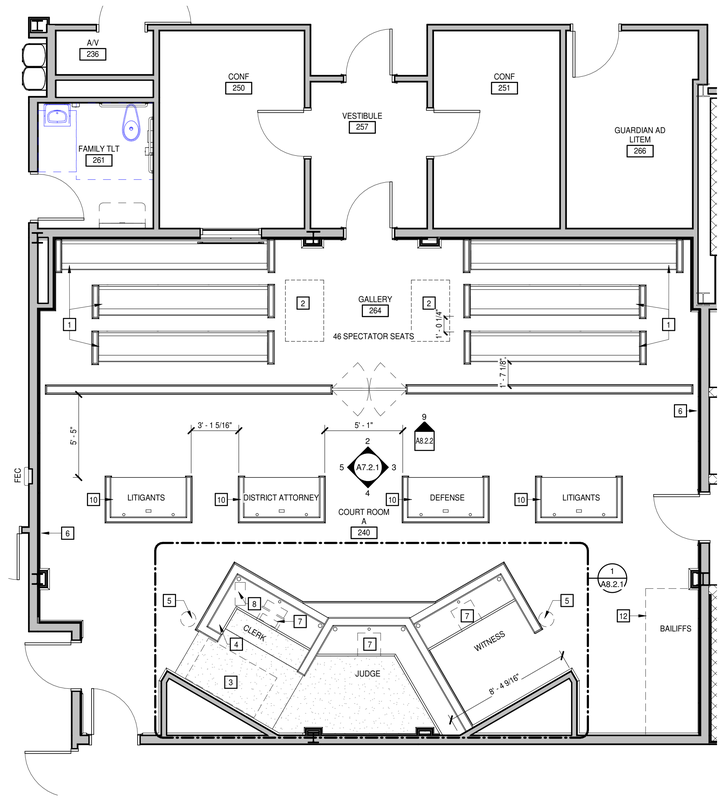
4 A7.1.2 A7.2.1 **SOUTH ELEVATION COURTROOM A**
1/4" = 1'-0"



3 A7.2.1 A7.2.1 **EAST ELEVATION COURTROOM A**
1/4" = 1'-0"



2 A7.1.2 A7.2.1 **NORTH ELEVATION - COURTROOM A**
1/4" = 1'-0"



1 A2.2 A7.2.1 **COURTROOM A**
1/4" = 1'-0"

KEYNOTES

APPLIES TO DRAWINGS A7.2.1 - A7.2.2
REPRESENTED BY n

1. WD SPECTATOR BENCH WITH TRANSPARENT FINISH
2. ACCESSIBLE WHEELCHAIR SPACE
3. FUTURE ACCESSIBLE ELECTRIC LIFT - 3'-0" X 5'-0"
4. FORM STORAGE UNIT BELOW COUNTER
5. FLAGS - NIC
6. FLAT PANEL DISPLAY - NIC
7. 1'-6" X 1'-6" PENCIL DRAWER BENEATH WORKSURFACE
8. COMPUTER TOWER HOLDER BELOW COUNTER
9. COUNTY SEAL PLAQUE (NIC)
10. LITIGANT'S TABLE - REFER TO 8/A8.2.1.
11. POWER AND DATA OUTLETS TO FLAT PANEL DISPLAY (NIC) - REFER TO ELEC DWGS
12. 3/8" RECESS IN CONC SLAB. PROVIDE 3/8" CARPET PAD UNDER C-TILE.
13. 1" FABRIC WRAPPED ACOUSTICAL PANELS. SPACE 1" APART.
14. WD CROWN MOLDING - REFER TO 5/A8.2.3
15. WD CHAIR RAIL - REFER 2/A8.2.3
16. WD BASE - REFER 1/A8.2.3
17. WD CROWN MOLDING - REFER TO 6/A8.2.3
18. 1" ALUMINUM REVEAL

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

ENLARGED COURTROOM A

A7.2.1

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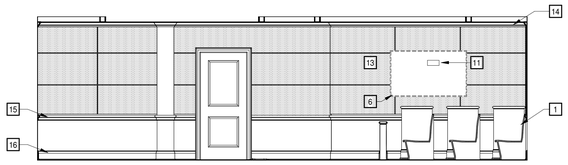
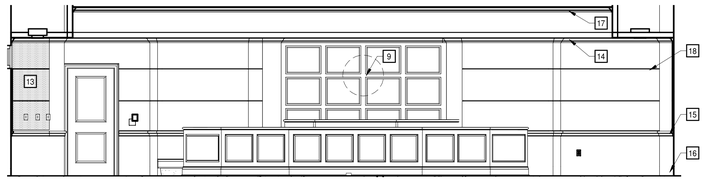
KEYNOTES

APPLIES TO DRAWINGS A7.2.1 - A7.2.2
REPRESENTED BY [n]

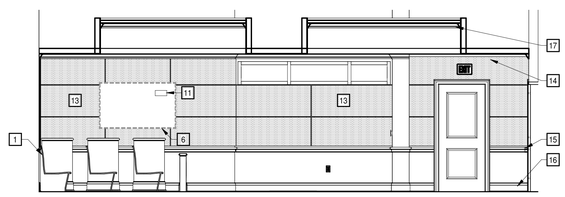
1. WD SPECTATOR BENCH WITH TRANSPARENT FINISH
2. ACCESSIBLE WHEELCHAIR SPACE
3. FUTURE ACCESSIBLE ELECTRIC LIFT - 3'-0" X 5'-0"
4. FORM STORAGE UNIT BELOW COUNTER
5. FLAGS - NIC
6. FLAT PANEL DISPLAY - NIC
7. 1'-6" X 1'-6" PENCIL DRAWER BENEATH WORKSURFACE
8. COMPUTER TOWER HOLDER BELOW COUNTER
9. COUNTY SEAL PLAQUE (NIC)
10. LITIGANT'S TABLE - REFER TO 8/A8.2.1.
11. POWER AND DATA OUTLETS TO FLAT PANEL DISPLAY (NIC) - REFER TO ELEC DWGS
12. 3/8" RECESS IN CONC SLAB. PROVIDE 3/8" CARPET PAD UNDER C-TILE.
13. 1" FABRIC WRAPPED ACOUSTICAL PANELS. SPACE 1" APART.
14. WD CROWN MOLDING - REFER TO 5/A8.2.3
15. WD CHAIR RAIL - REFER 2/A8.2.3
16. WD BASE - REFER 1/A8.2.3
17. WD CROWN MOLDING - REFER TO 6/A8.2.3
18. 1" ALUMINUM REVEAL



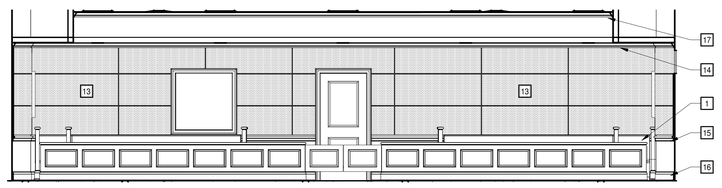
5 A7.2.2 | A7.2.2 **COURTROOM B - WEST ELEVATION**
1/4" = 1'-0"



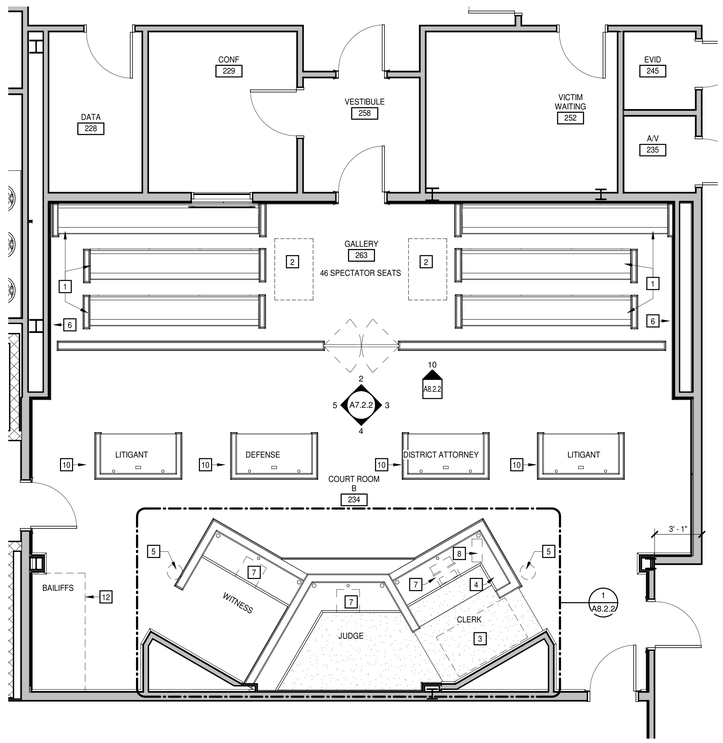
4 A7.1.2 | A7.2.2 **COURTROOM B - SOUTH ELEVATION**
1/4" = 1'-0"



3 A7.2.2 | A7.2.2 **COURTROOM B - EAST ELEVATION**
1/4" = 1'-0"



2 A7.1.2 | A7.2.2 **NORTH ELEVATION COURTROOM B**
1/4" = 1'-0"



1 A2.2 | A7.2.2 **ENLARGED COURTROOM B**
1/4" = 1'-0"

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INCORPORATED
50149
NORTH CAROLINA
CHARLOTTE, NC

DANIEL R. MACE
REGISTERED ARCHITECT
8712
NORTH CAROLINA
CHARLOTTE, NC

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990
DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

ENLARGED COURTROOM B

A7.2.2

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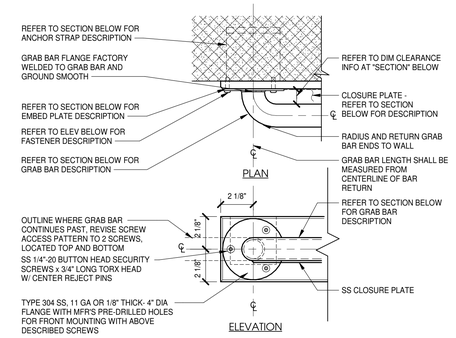
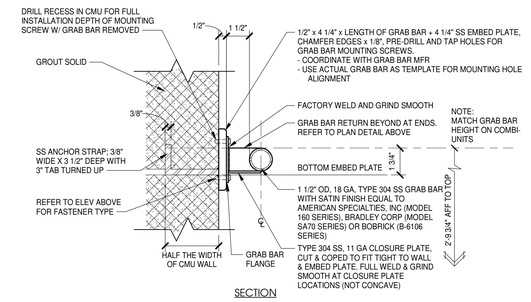


NOTE:
GRAB BARS FURNISHED UNDER DIVISION 11 AND INSTALLED UNDER DIVISION 4. SET GRAB BARS WITH EMBED PLATES ATTACHED. PROTECT UNIT UNTIL MASONRY MORTAR HAS CURED FOR FIRM ANCHORAGE.

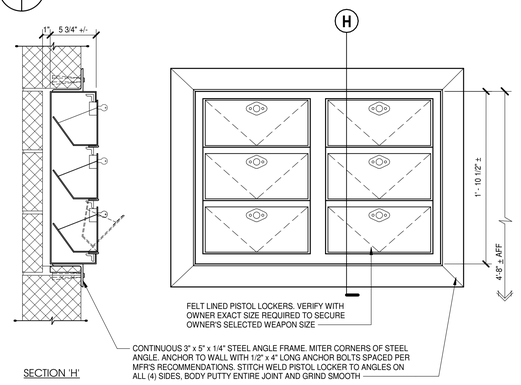


3 TYP A7.3 REMOVABLE GRAB BAR W/CONTINUOUS EMBED PLATE DETAIL

3" = 1'-0"

5 TYP A7.3 RECESSED TOILET PAPER ROLL HOLDER

3" = 1'-0"

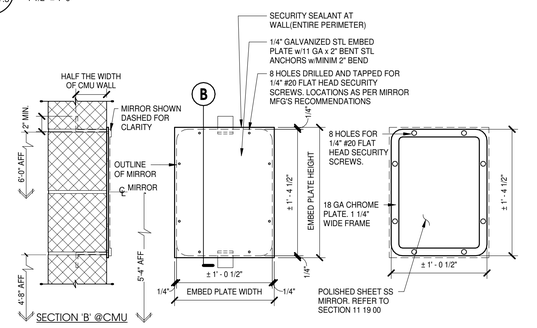


4 TYP A7.3 6 COMPARTMENT PISTOL LOCKER RECESS MOUNTED

1 1/2" = 1'-0"

2 TYP A7.3 DETENTION MIRROR, DOUBLE

1 1/2" = 1'-0"



1 TYP A7.3 DETENTION MIRROR, SINGLE

1 1/2" = 1'-0"

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NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
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DATE	DESCRIPTION

DETENTION EQUIPMENT DETAILS

A7.3

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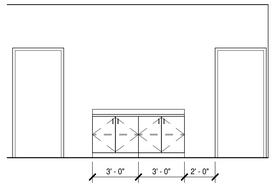
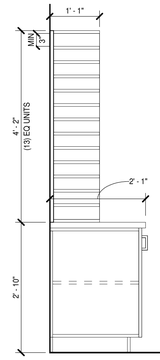
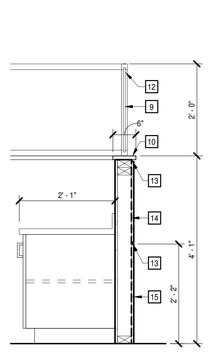


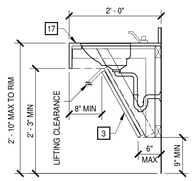
17 CASEWORK ELEVATION
1/4" = 1'-0"



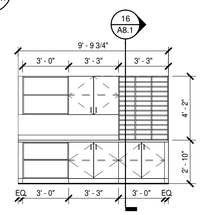
16 A8.1 A8.1 SECTION
3/4" = 1'-0"



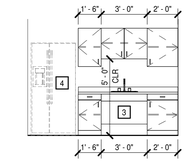
15 A8.1 A8.1 SECTION
3/4" = 1'-0"



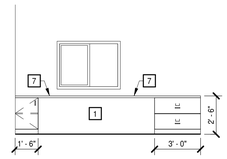
14 TYP A8.1 TYPICAL SINK SECTION
3/4" = 1'-0"



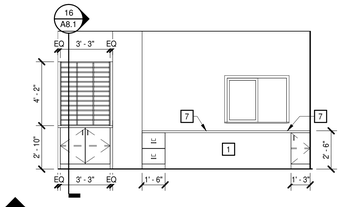
13 CASEWORK ELEVATION
1/4" = 1'-0"



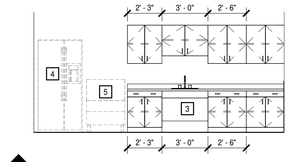
12 CASEWORK ELEVATION
1/4" = 1'-0"



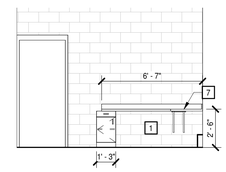
11 ADMIN ASST 324
1/4" = 1'-0"



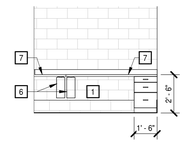
10 ASST COUNTER 147
1/4" = 1'-0"



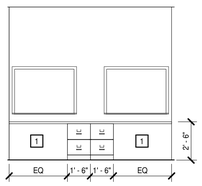
9 STAFF BREAK 129
1/4" = 1'-0"



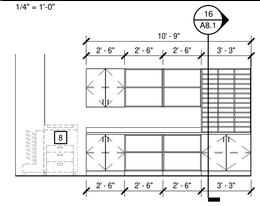
8 DEPUTY 122 - S
1/4" = 1'-0"



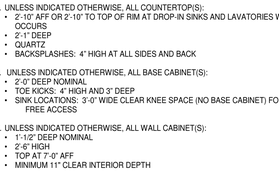
7 DEPUTY 122 - W
1/4" = 1'-0"



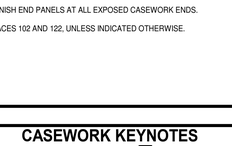
6 CLERK WINDOW 106
1/4" = 1'-0"



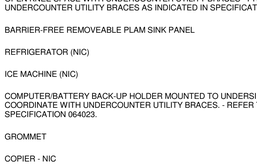
5 WORKROOM 156
1/4" = 1'-0"



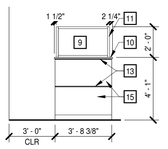
4 SECURITY 102 -N
1/4" = 1'-0"



3 SECURITY 102 - W
1/4" = 1'-0"



2 SECURITY 102 - S
1/4" = 1'-0"



1 SECURITY 102 - E
1/4" = 1'-0"

CASEWORK GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
- 2'-10" AFF OR 2'-10" TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
- 2'-1" DEEP
- QUARTZ
- BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK

B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
- 2'-0" DEEP NOMINAL
- TOE KICKS: 4" HIGH AND 3" DEEP
- SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE (NO BASE CABINET) FOR BARRIER FREE ACCESS

C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
- 1'-1/2" DEEP NOMINAL
- 2'-6" HIGH
- TOP AT 7'-0" AFF
- MINIMUM 11" CLEAR INTERIOR DEPTH

D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.

E. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.

F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.

G. LOCKS: SPACES 102 AND 122, UNLESS INDICATED OTHERWISE.

CASEWORK KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWING A8.1

1	OPEN KNEE SPACE WITH UNDERCOUNTER UTILITY BRACES - PROVIDE UNDERCOUNTER UTILITY BRACES AS INDICATED IN SPECIFICATION 064023
3	BARRIER-FREE REMOVEABLE PLAM SINK PANEL
4	REFRIGERATOR (NIC)
5	ICE MACHINE (NIC)
6	COMPUTER/BATTERY BACK-UP HOLDER MOUNTED TO UNDERSIDE OF DESK. COORDINATE WITH UNDERCOUNTER UTILITY BRACES. - REFER TO SPECIFICATION 064023.
7	GROMMET
8	COPIER - NIC
9	BULLET-RESISTANT SECURITY GLAZING
10	1" QUARTZ CAP WITH DOUBLE-EASED EDGES
11	1-1/2" SQUARE BRUSHED STAINLESS STEEL POST
12	STL CHANNEL GLAZING FRAME WITH MITERED CORNERS, WELDED TO STL TUBE POSTS
13	1/2" CLEAR ANODIZED ALUMINUM REVEAL
14	BOLD DASHED LINE INDICATES 1/2" LIGHTWEIGHT BALLISTIC ARMOR
15	IRWC
17	SSM COUNTERTOP AND SINK - REFER TO SPECIFICATION 123661.

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NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

CASEWORK AND ELEVATIONS

A8.1

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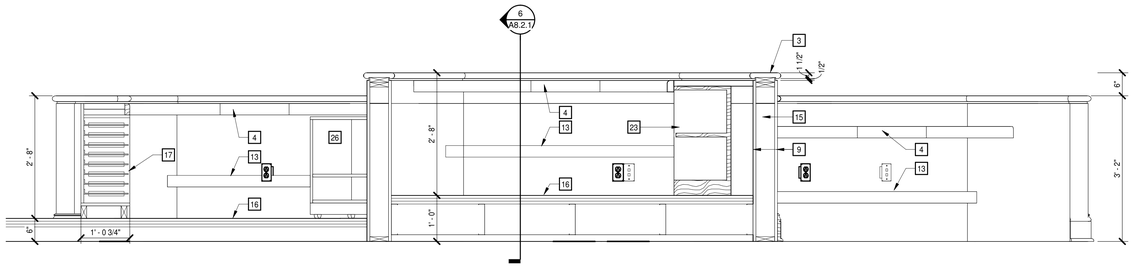
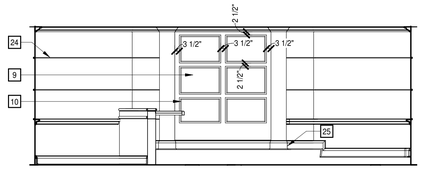
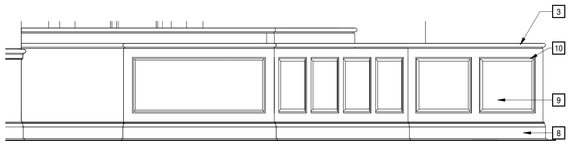


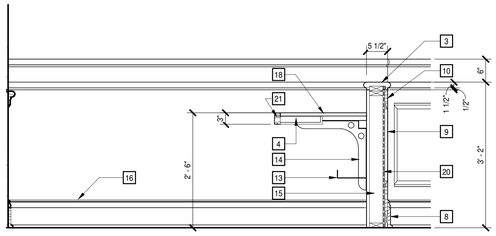
9 SECTION - COURTROOM A (COURTROOM B OPP HAND)
A8.2.1 A8.2.1 3/4" = 1'-0"



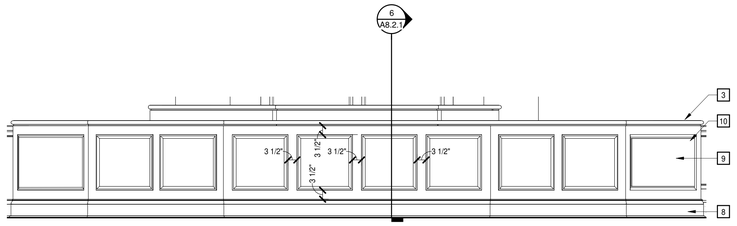
8 ELEVATION - COURTROOM A
A8.2.1 A8.2.1 1/4" = 1'-0"



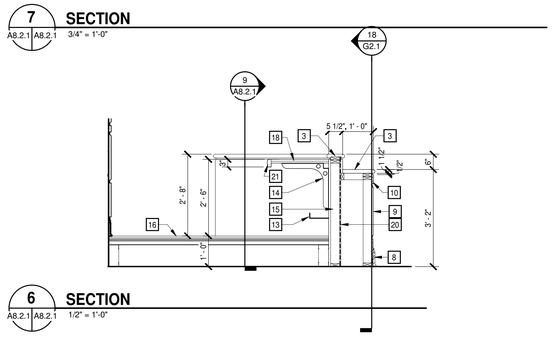
4 CASEWORK ELEVATION
1/2" = 1'-0"



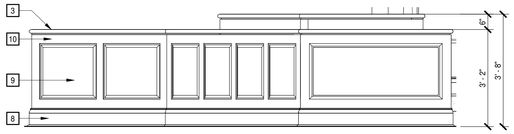
7 SECTION
A8.2.1 A8.2.1 3/4" = 1'-0"



3 CASEWORK ELEVATION
1/2" = 1'-0"



6 SECTION
A8.2.1 A8.2.1 1/2" = 1'-0"



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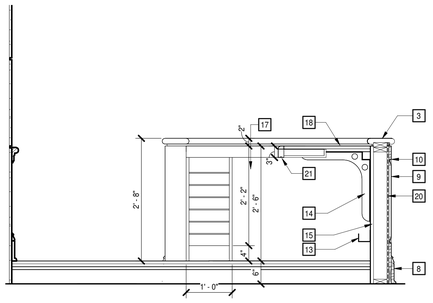
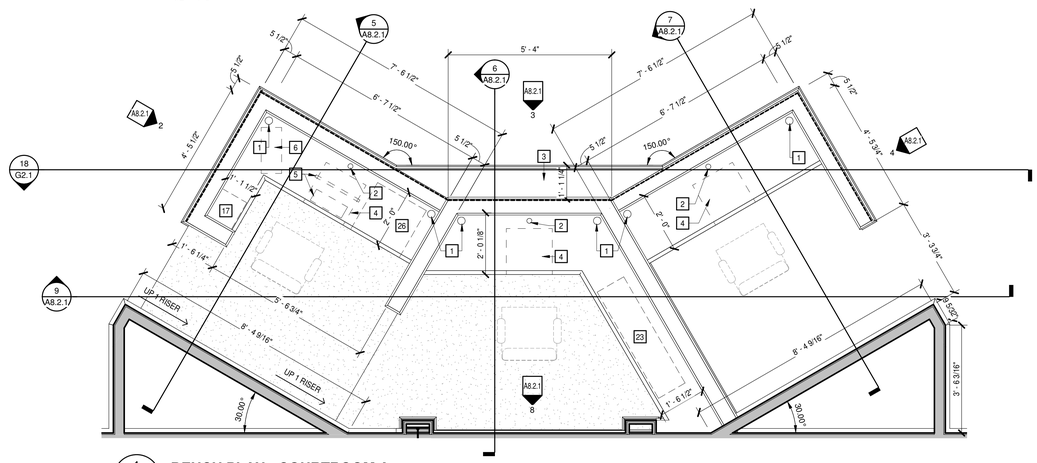


5 SECTION
A8.2.1 A8.2.1 3/4" = 1'-0"



1 BENCH PLAN - COURTROOM A
A7.2.1 A8.2.1 1/2" = 1'-0"

CASEWORK KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWING A8.2.1-A8.2.2

1	GROMMET - COORDINATE SIZE AND LOCATION WITH OWNER.
2	MICROPHONE OUTLET
3	QUARTZ TOP WITH DOUBLE EASED EDGE
4	PENCIL DRAWER 18" W X 12" D X 1-1/2" H
5	KEYBOARD AND MONITOR (NIC) ON COUNTER
6	COMPUTER TOWER (NIC) BELOW COUNTER. PROVIDE COMPUTER HOLDER MOUNTED TO UNDERSIDE OF DESK. COORDINATE WITH UNDERCOUNTER UTILITY BRACES. REFER TO SPECIFICATION 064023.
7	SWING GATE
8	WOOD BASE - REFER TO SECTION 1/A8.2.3
9	3/4" VENEER PLYWOOD WITH TRANSPARENT FINISH
10	STILE AND RAIL TRIM WITH TRANSPARENT FINISH
11	2-BY WOOD FRAMING AT 16" OC
12	2" X 2" X 1/2" MITERED AND WELDED EQUAL LEG STEEL ANGLES AT 3'-0" OC MAX. EASE EDGE OF HORIZONTAL LEG
13	WIRE MANAGEMENT TROUGH
14	UNDERCOUNTER UTILITY BRACE
15	INTERNAL FRAMING OF EXTERIOR GRADE VENEER-CORE PLYWOOD CUT TO SHAPES WITH CNC SAW
16	3/4" UNDERLAYMENT ON 5/8" SOUND DEADENING BOARD ON 3/4" PLYWOOD
17	FORM STORAGE UNIT BELOW COUNTER, FOR 8.5" X 11" FORMS
18	LINOLEUM WRITING SURFACE ON TWO LAYERS OF 3/4" PLYWOOD, INSET IN QUARTZ TOP WITH DOUBLE EASED EDGE
19	POP-UP ELECTRICAL POWER AND DATA OUTLET
20	BOLD DASHED LINE INDICATES 1/2" LIGHTWEIGHT BALLISTIC ARMOR
21	3/4" RADIUS EDGE QUARTZ
22	2" X 2" X 1/4" CLIP ANGLE ANCHORED TO SLAB WITH 1/2" DIA THREADED BOLTS SET IN EPOXY.
23	BOOKCASE UNIT BELOW COUNTER
24	1/2" CLEAR ANODIZED ALUMINUM REVEAL
25	TURN CORNER WITH BASE AND TRANSITION TO LOWER FLOOR LEVEL
26	MOBILE PRINTER STAND. REFER TO DETAILS ON A8.2.2
27	ADJUSTABLE WOOD SHELF ON RECESSED SHELF STANDARDS
28	NON-LOCKING CASTERS. NUMBER BASED ON TOTAL WEIGHT OF UNIT.
29	3" DIA BLACK WIRE MANAGEMENT GROMMET
30	SOLID HARDWOOD WITH TRANSPARENT FINISH
31	1 1/2" RADIUS CUTOUT IN CENTER OF SHELF
32	NYLON CHANNELS/GUIDE TRACK
33	BACK LIP
34	2-BY WOOD PLATE
35	C3X5 AT 4'-0" OC BESIDE FRAMING. WELD TO PLATE

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA DANIEL R. MACE CHARLOTTE, NC

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

COURTROOM CASEWORK ELEVATIONS AND SECTIONS

A8.2.1

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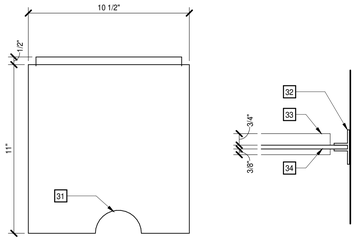
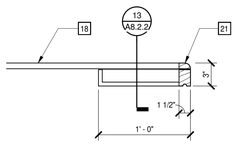
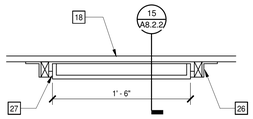


14 A8.2.2 **FORM STORAGE SHELF**
3" = 1'-0"

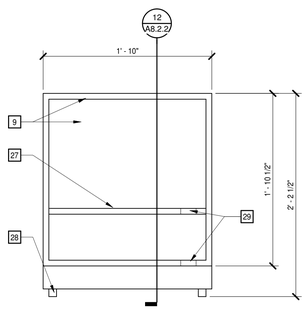


15 A8.2.2 A8.2.2 **SECTION - PENCIL DRAWER**
1 1/2" = 1'-0"

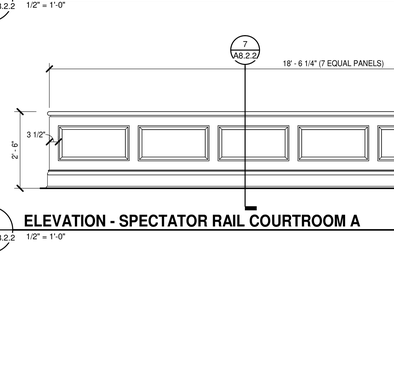


13 A8.2.2 A8.2.2 **SECTION - PENCIL DRAWER**
1 1/2" = 1'-0"

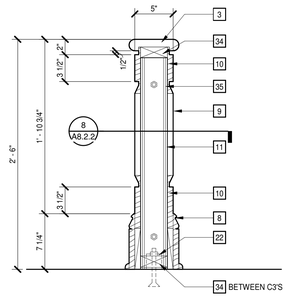
12 A8.2.2 A8.2.2 **SECTION - MOBILE PRINTER**
1 1/2" = 1'-0"



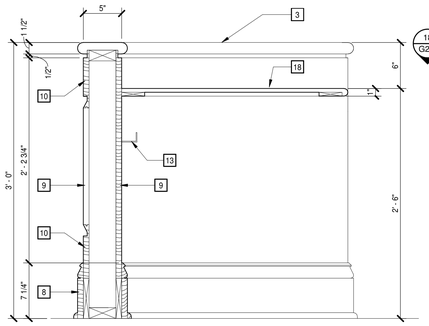
11 A8.2.2 **ELEVATION - MOBILE PRINTER**
1 1/2" = 1'-0"



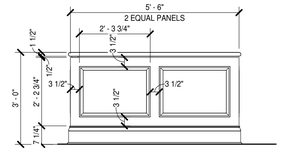
8 A8.2.2 A8.2.2 **SECTION - SPECTATOR RAIL**
3" = 1'-0"



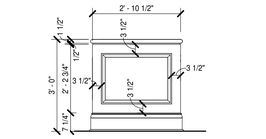
7 A8.2.2 A8.2.2 **SECTION - SPECTATOR RAIL**
1 1/2" = 1'-0"



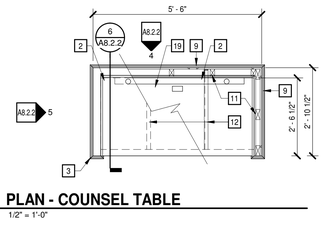
6 A8.2.2 A8.2.2 **SECTION - COUNSEL TABLE**
1 1/2" = 1'-0"



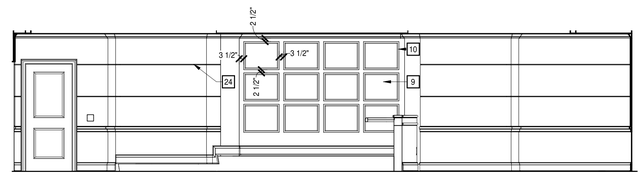
4 **ELEVATION - COUNSEL TABLE**
1/2" = 1'-0"



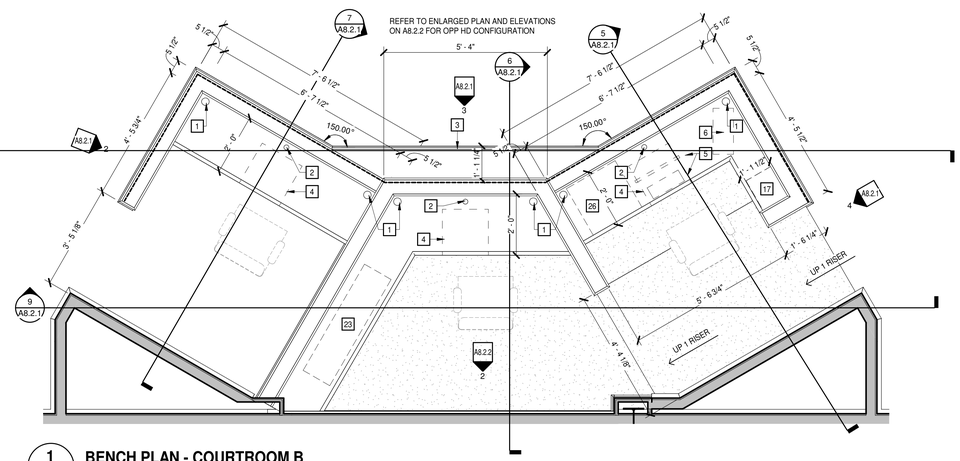
5 **ELEVATION - COUNSEL TABLE**
1/2" = 1'-0"



3 A8.2.2 **PLAN - COUNSEL TABLE**
1/2" = 1'-0"



2 A7.1.2 A8.2.2 **ELEVATION - COURTROOM B**
1/4" = 1'-0"



1 A7.2.2 A8.2.2 **BENCH PLAN - COURTROOM B**
1/2" = 1'-0"

CASEWORK KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWING A8.2.1-A8.2.2

1	GROMMET - COORDINATE SIZE AND LOCATION WITH OWNER.
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5	KEYBOARD AND MONITOR (NIC) ON COUNTER
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7	SWING GATE
8	WOOD BASE - REFER TO SECTION 1/A8.2.3
9	3/4" VENEER PLYWOOD WITH TRANSPARENT FINISH
10	STILE AND RAIL TRIM WITH TRANSPARENT FINISH
11	2-BY WOOD FRAMING AT 16" OC
12	2" X 2" X 1/2" MITERED AND WELDED EQUAL LEG STEEL ANGLES AT 3'-0" OC MAX. EASE EDGE OF HORIZONTAL LEG
13	WIRE MANAGEMENT TROUGH
14	UNDERCOUNTER UTILITY BRACE
15	INTERNAL FRAMING OF EXTERIOR GRADE VENEER-CORE PLYWOOD CUT TO SHAPES WITH CNC SAW
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25	TURN CORNER WITH BASE AND TRANSITION TO LOWER FLOOR LEVEL
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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

COURTROOM CASEWORK ELEVATIONS AND SECTIONS

A8.2.2

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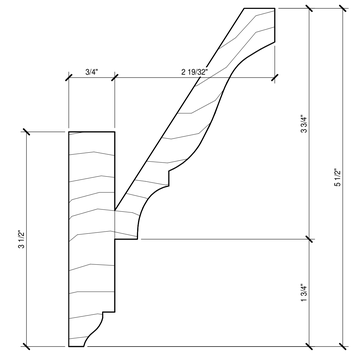
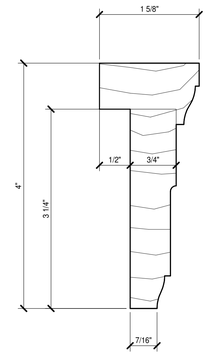
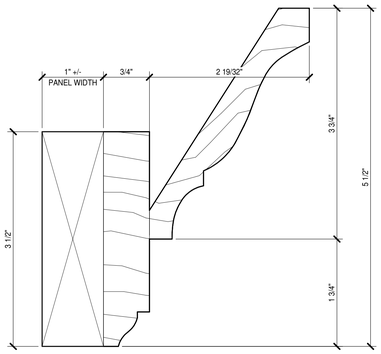


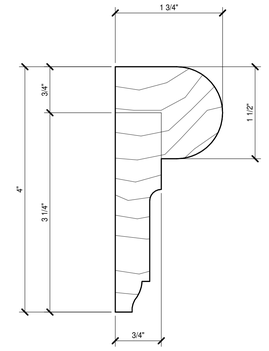
6 A8.2.3 **SECTION - TWO PIECE CROWN MOLDING**
12" = 1'-0"



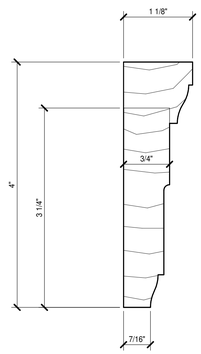
3 A8.2.3 **SECTION - DOOR TRIM**
12" = 1'-0"



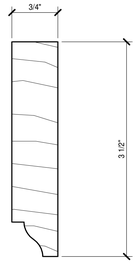
5 A8.2.3 **SECTION - TWO PIECE CROWN AT ACOUSTIC PANELS**
12" = 1'-0"



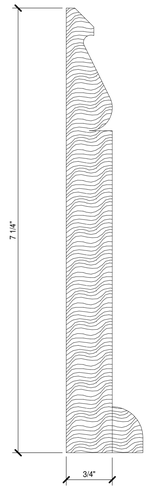
2 A8.2.3 **SECTION - CHAIR RAIL/WINDOW SILL**
12" = 1'-0"



7 A8.2.3 **SECTION - WINDOW TRIM**
12" = 1'-0"



4 A8.2.3 **SECTION - LAMBS TONGUE @ WINDOW CASINGS**
12" = 1'-0"



1 TYP A8.2.3 **SECTION - WOOD BASE AT JUDGE'S BENCH**
12" = 1'-0"

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

WOOD TRIM DETAILS

A8.2.3

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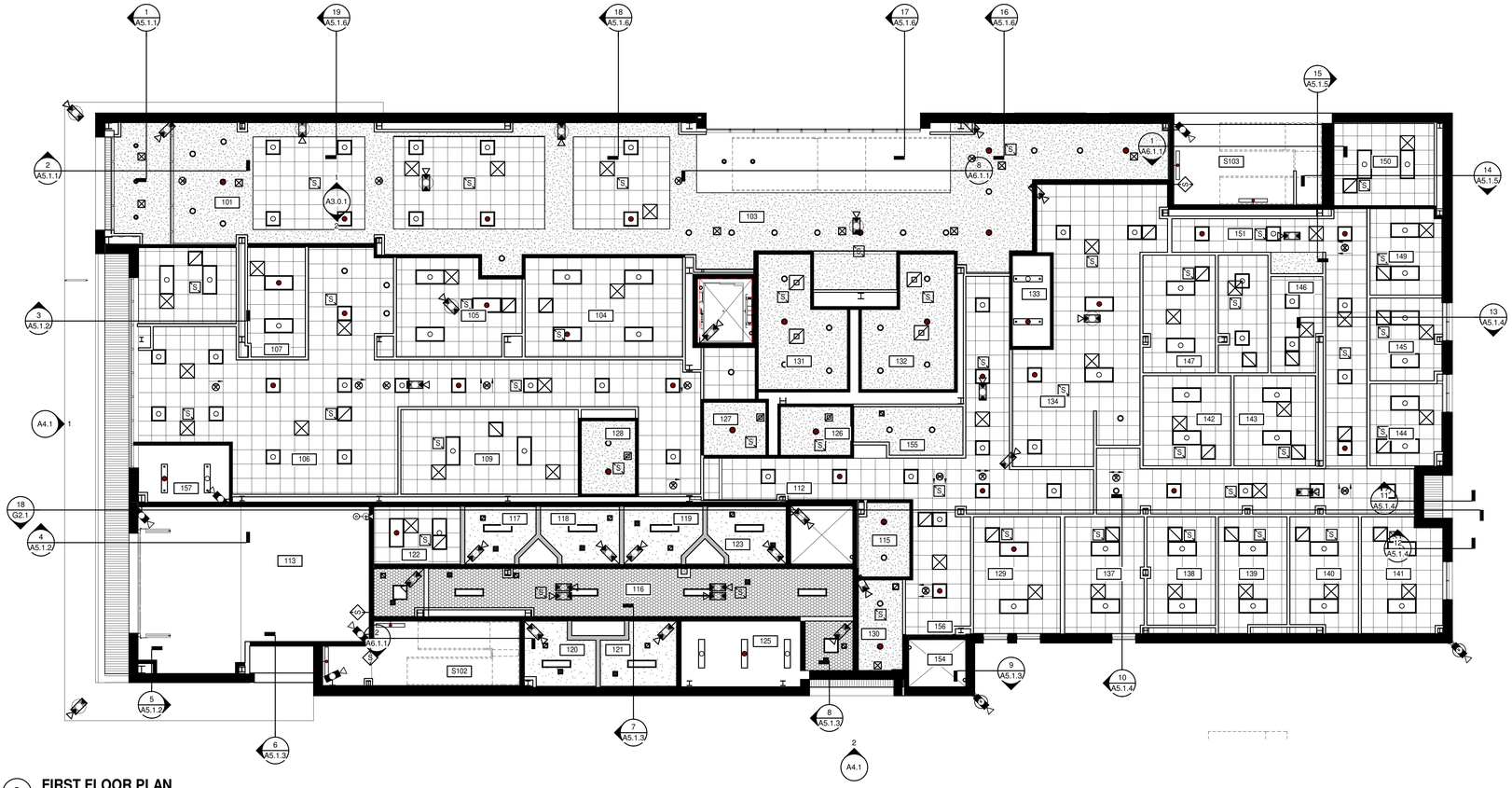
3 SECOND FLOOR
1/8" = 1'-0"



2 FIRST FLOOR PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A9.1.1 - A9.1.2

REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

- A101 / nn'-nn" — SPACE NUMBER / CEILING HEIGHT, AFF UNO
- INTERIOR APPLICATIONS: GYPSUM BOARD CEILING
- EXTERIOR APPLICATIONS: GYPSUM SOFFIT BOARD OR GYPSUM SHEATHING
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- 1 HR RATED HORIZONTAL SHAFT WALL ABOVE ACP CEILING
- 1'-0" x 1'-0" ACT ON 3/4" FRT PLYWOOD ON CFSF-S SUSPENDED FRAMING
- GYPSUM BOARD CEILING WITH SECURITY MESH
- METAL SOFFIT PANELS (EXTERIOR ONLY)
- AP — ACCESS PANEL
- WITH OPENING — EXTERIOR WALL
- WITH OPENING — INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK
- WITH OPENING — INTERIOR WALL/PARTITION TO CAP ABOVE OR TERMINATES ADJACENT TO A RATED HORIZONTAL ASSEMBLY
- WITH OPENING — INTERIOR WALL/PARTITION 4" MIN ABOVE HIGHEST ADJACENT CEILING. IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES
- INTERIOR WALL/PARTITION TO UNDERSIDE OF CEILING
- EXISTING TO REMAIN, VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

A. ALL CEILING HEIGHTS SHALL BE 9'-0" AFF UNLESS INDICATED OTHERWISE.

B. DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.

C. CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

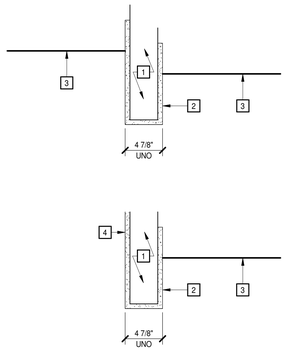
D. IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO SATISFY CODE OR COVERAGE DENSITIES (OTHER THAN THOSE THAT MAY BE INDICATED), PROVIDE ADDITIONAL SPRINKLER HEADS AT NO ADDITIONAL COST AND OBTAIN APPROVAL OF ARCHITECT FOR LOCATION OF SUCH HEADS, IF ANY.

REFLECTED CEILING PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A9.1.1 - A9.1.2

1	CFSF-S
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
4	GYP BD: EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE
5	1-HOUR SHAFT WALL ASSEMBLY CEILING AROUND PLUMBING CHASE
6	CEILING MOUNTED OVERHEAD PROJECTOR
7	RECESSED MOTORIZED PROJECTION SCREEN



BULKHEAD DETAILS
NO SCALE

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PROJECT NO.: 571990
DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

FIRST AND SECOND FLOORS REFLECTED CEILING PLANS

A9.1.1

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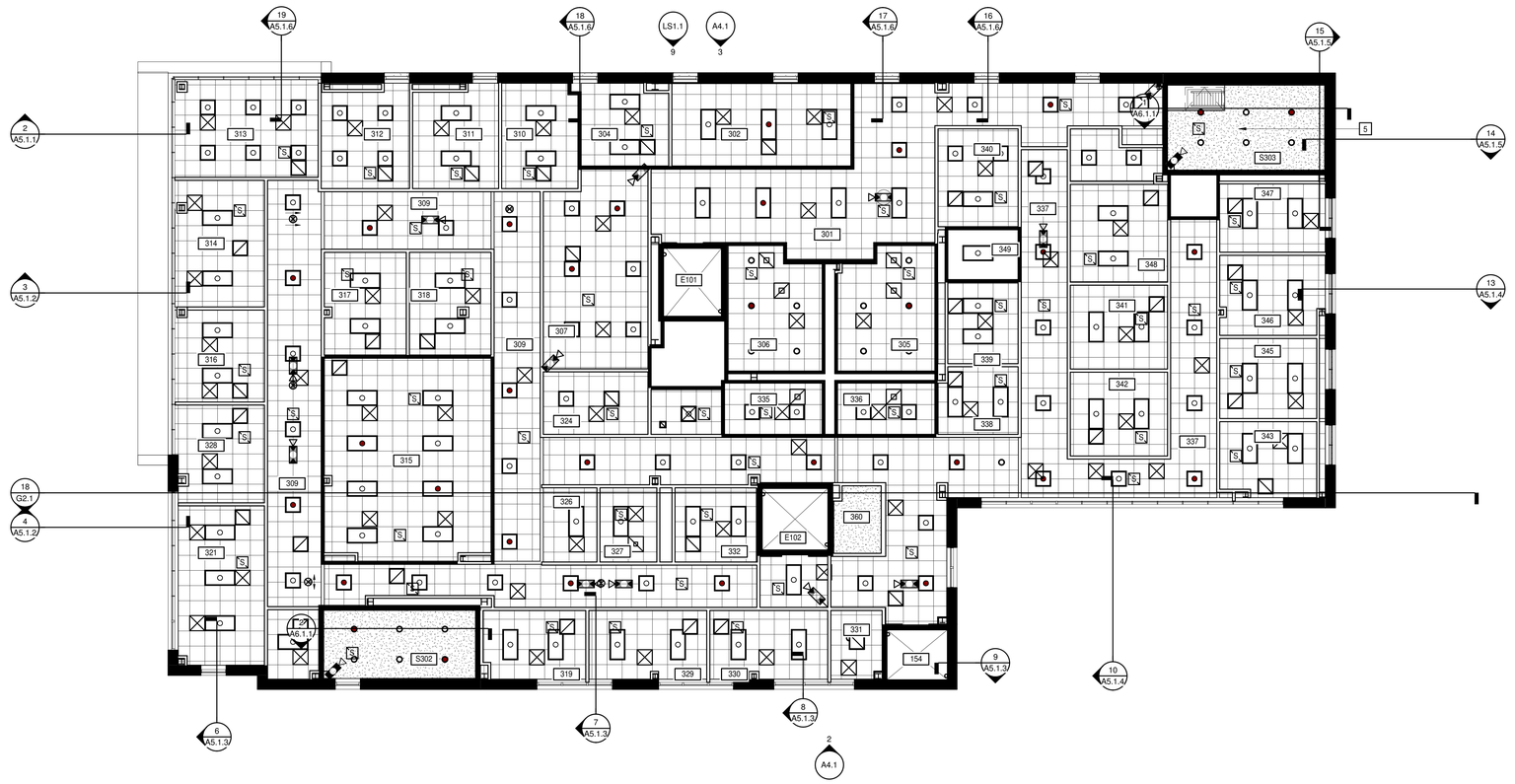

N

THIRD FLOOR

1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A9.1.1 - A9.1.2

REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

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- nn'-nn" — CEILING HEIGHT, AFF UNO
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- EXTERIOR APPLICATIONS: GYPSUM SOFFIT BOARD OR GYPSUM SHEATHING
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- 1 HR RATED HORIZONTAL SHAFT WALL ABOVE ACP CEILING
- 1'-0" x 1'-0" ACT ON 3/4" FRT PLYWOOD ON CFSF-S SUSPENDED FRAMING
- GYPSUM BOARD CEILING WITH SECURITY MESH
- METAL SOFFIT PANELS (EXTERIOR ONLY)
- AP — ACCESS PANEL
- WITH OPENING — EXTERIOR WALL
- WITH OPENING — INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK
- WITH OPENING — INTERIOR WALL/PARTITION TO CAP ABOVE OR TERMINATES ADJACENT TO A RATED HORIZONTAL ASSEMBLY
- WITH OPENING — INTERIOR WALL/PARTITION 4" MIN ABOVE HIGHEST ADJACENT CEILING. IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES
- INTERIOR WALL/PARTITION TO UNDERSIDE OF CEILING
- EXISTING TO REMAIN, VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

A. ALL CEILING HEIGHTS SHALL BE 9'-0" AFF UNLESS INDICATED OTHERWISE.

B. DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.

C. CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

D. IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO SATISFY CODE OR COVERAGE DENSITIES (OTHER THAN THOSE THAT MAY BE INDICATED), PROVIDE ADDITIONAL SPRINKLER HEADS AT NO ADDITIONAL COST AND OBTAIN APPROVAL OF ARCHITECT FOR LOCATION OF SUCH HEADS, IF ANY.

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
REVISIONS	
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THIRD FLOOR REFLECTED CEILING PLAN

A9.1.2

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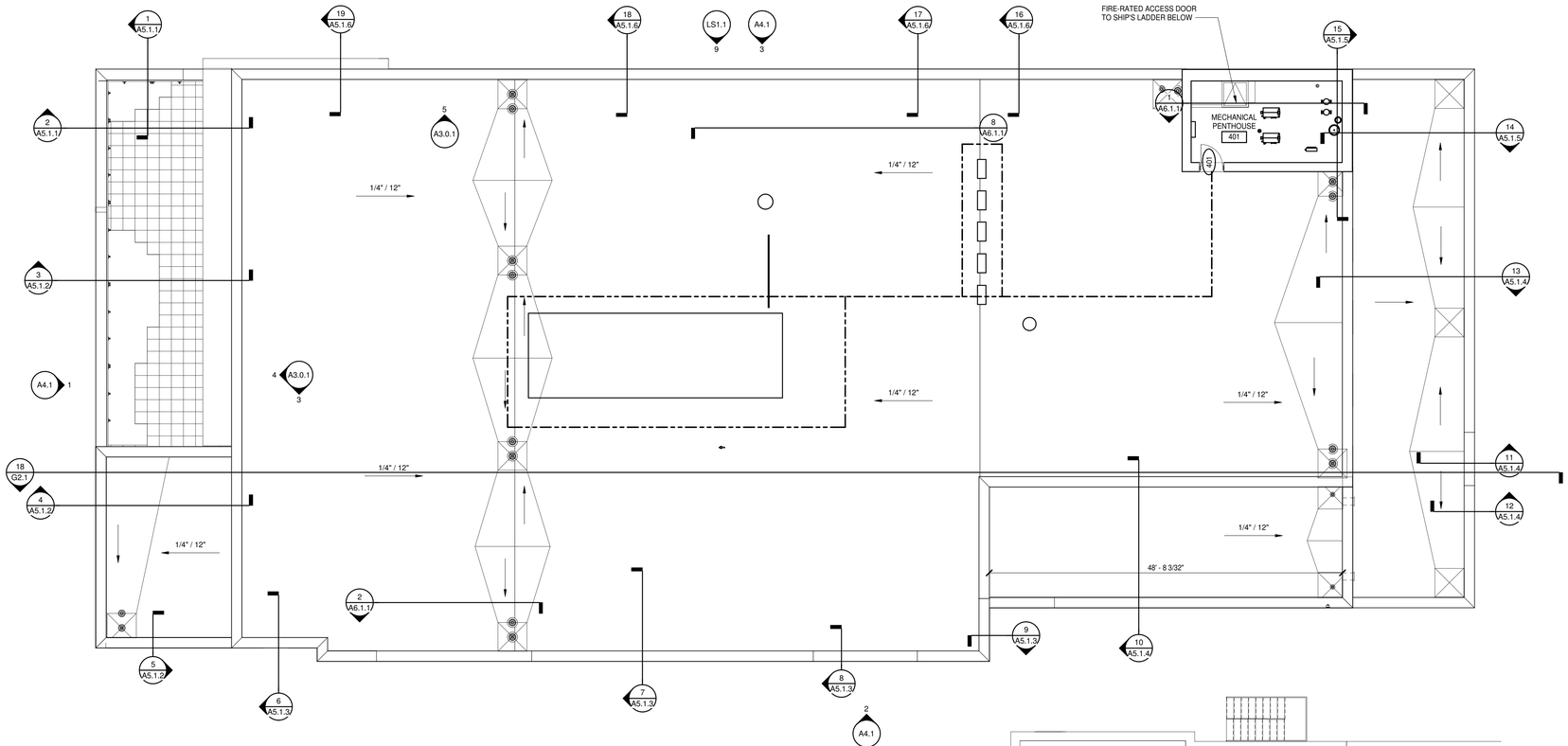


1 ROOF PLAN
1/8" = 1'-0"

ROOF PLAN LEGEND
APPLIES TO DRAWINGS A10.1.1 - A10.1.n

REFER TO M, E & FP DRAWINGS FOR ROOF SYMBOLS NOT INDICATED BELOW

- PRIMARY ROOF DRAIN AND SUMP
- SECONDARY/EMERGENCY OVERFLOW (WHERE OCCURS)
- GUTTER AND DOWNSPOUT (RECTANGULAR SHOWN, MAY BE ROUND IF SPECIFIED)
- ROOF ACCESS HATCH
- SCUPPER
- CRICKET
- WALKWAY PATH
- INDICATES DIRECTION OF ROOF ASSEMBLY SLOPE

ROOF PLAN GENERAL NOTES

A. ALL ROOF ASSEMBLIES: RFA1, UNO.

B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS. REFER TO OTHER DISCIPLINE'S DRAWINGS FOR QUANTITIES AND LOCATIONS OF ROOFTOP EQUIPMENT AND ASSOCIATED PENETRATIONS.

C. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ASSOCIATED PENETRATIONS WITH STRUCTURE.

D. ROOF DETAILS MAY NOT ENTIRELY REPRESENT ACTUAL CONSTRUCTION CONDITIONS. ACTUAL DETAIL ASSEMBLIES SHALL BE APPROVED BY ROOFING MANUFACTURER.

E. ROOF PLAN DOES NOT INDICATE ALL ROOFING DETAILS (INCLUDING BUT NOT LIMITED TO ROOF DRAINS; VTR; CURBS; EXPANSION JOINTS; ROOF HATCHES). PROVIDE MFR'S DETAILS AS REQUIRED TO SUIT SPECIFIC APPLICATION AND SPECIFICATIONS.

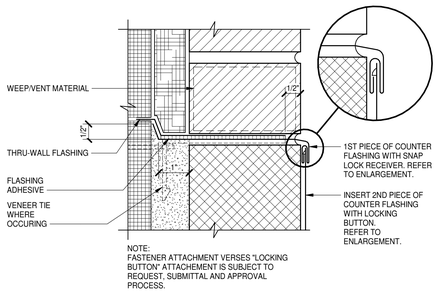
F. PROVIDE CRICKETS AT DRAINS, WALLS, CURBS, MECHANICAL EQUIPMENT, AND OTHER OBSTRUCTIONS SUCH THAT 1/4" PER FOOT MINIMUM POSITIVE DRAINAGE SLOPE IS MAINTAINED AT ALL SUCH AREAS.

G. PROVIDE DOUBLE-LAYER OF MEMBRANE ROOFING MATERIAL UNDER SPLASH BLOCKS.

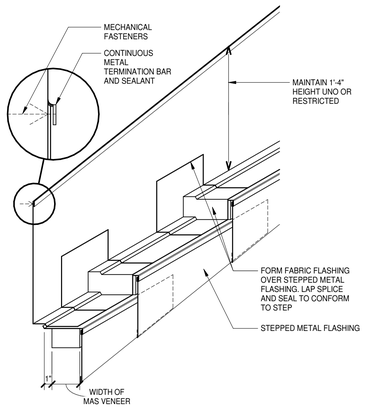
H. CENTER ALL PENETRATIONS BETWEEN RIBS OF METAL ROOFING. PIPING, DUCTWORK AND CURBS SHALL BE OFFSET AS REQUIRED TO ACHIEVE PENETRATIONS CENTERED BETWEEN RIBS.

ROOF ASSEMBLIES
APPLIES TO A10.1.n AND A10.2.n SERIES OF DRAWINGS
REPRESENTED BY (n)

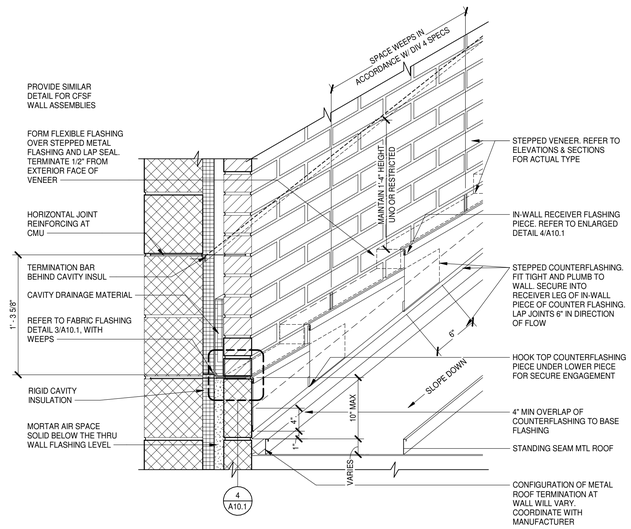
MARK	FIRE RATED ASSEMBLY (REFER TO LS1.1 FOR LEGEND)	REMARKS	INFORMATION (ROOF ASSEMBLIES ARE SHOWN DIAGRAMMATICALLY. REFER TO SPECS FOR REQUIRED R-VALUE AND MATERIAL THICKNESS)
RFA1	⬡		ROOF MEMBRANE COVERBOARD ROOF INSULATION VAPOR/AIR BARRIER MEMBRANE SUBSTRATE BOARD DECK SURFACE



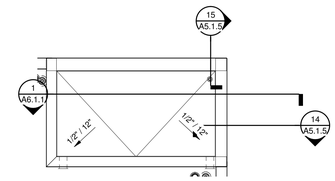
3 ENLARGED DETAIL - STEP FLASHING
A10.1 — 6" = 1'-0"



4 FLASHING FABRIC DETAIL
A10.1 — 1 1/2" = 1'-0"



TYPICAL STEP FLASHING DETAIL
1 1/2" = 1'-0"



2 ROOF PLAN AT PENTHOUSE
A5.1.5 A10.1 — 1/8" = 1'-0"

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NEW DJJ FACILITY
NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

ROOF PLAN

A10.1

5/22/2019 3:36:08 PM

DOOR CONTROL / MONITORING LEGEND
(NOT ALL SYMBOLS NECESSARILY USED)



- A — 8" JAMB MTD ELECTRO-MECHANICAL LOCK
- B — 2" JAMB MTD ELECTRO-MECHANICAL LOCK
- C — SWING DOOR MANUAL DETENTION LOCK
- D — ELECTRO-MECHANICAL SLIDING DOOR DEVICE
- E — NON-DETENTION DOOR WITH INTERFACING TO SECURITY CONTROL TOUCHSCREEN
- F — SWING DOOR INSTITUTIONAL MORTISE ELECTRIC LOCK
- G — SWING OR SLIDING GATE W/ INTERFACING TO SECURITY CONTROL TOUCHSCREEN
- H — SWING DOOR MANUAL LOCK
- J — -NOT USED-

KEYNOTES
APPLIES TO DRAWINGS SE2.1 - SE2.3
REPRESENTED BY [n]

1. LOBBY ENTRANCE TO BE OPEN DURING BUSINESS HOURS VIA THE ACCESS CONTROL SYSTEM. OWNER SHALL BE PROVIDED MEANS TO OVERRIDE DOOR SCHEDULE AND LOCK DOWN DOORS IN EVENT OF EMERGENCY.
2. INTEGRATE ACCESS CONTROL WITH DELAYED EGRESS DEVICE TO SHUNT ALARM FOR EXIT AND RESET IT IF ACTIVATED.
3. PROVIDE DOOR POSITION SENSOR TO MONITOR DOOR TO ROOF ACCESS.
4. LOCAL ALARM ON PANIC HARDWARE AND DOOR SHALL ALARM LOCALLY AND AT DETENTION TOUCH SCREEN EVERY TIME IT IS OPENED.
5. PROVIDE CONDUIT FOR FRAME MOUNTED TALK THRU UNIT FOR LOW VOLTAGE POWER FROM SECURITY ELECTRONICS EQUIPMENT ROOM. NOTE TTU BASIS OF DESIGN: HAVEN SC-600.

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY AND GREATER QUANTITY OF WORK.
B. THE OWNER WILL AWARD A SEPARATE CONTRACT OR CONTRACTS TO PROVIDE THE SECURITY CONTROL SYSTEM. PROVIDE EMPTY CONDUIT SYSTEM WITH BACK BOXES AND PULL STRING UNDER THIS CONTRACT. COORDINATE CONDUIT INSTALLATION AND REQUIRED BACK BOXES WITH OWNERS DESIGNATED PERSONNEL AND INSTALLERS. DEVICE LOCATIONS INDICATED ON THE SECURITY ELECTRONICS (SE) DRAWINGS ARE PROVIDED FOR REFERENCE, BUT DEVICES ARE NIC, UNLESS NOTED OTHERWISE.
C. ALL SECURITY DEVICES SHALL HOMERUN TO SECURITY ELECTRONICS HEAD END ROOM. DEVICES IN THE DETENTION AREAS SHALL BE RAN COMPLETELY IN CONDUIT. DEVICES IN THE NON-DETENTION AREAS USE CONDUIT TO STUB ABOVE CEILING AND ENTER THE EQUIPMENT ROOM, BUT MAY BE RAN IN CABLE TRAY BETWEEN THOSE LOCATIONS.
D. COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON NEEDS IN THE FIELD AND ACTUAL CAMERA MODELS BEING USED.

SECURITY SYSTEMS LEGEND
(ALL SYMBOLS NOT NECESSARILY USED)

- PLC — PROGRAMMABLE LOGIC CONTROLLER CABINET AND/OR RELAY CABINET
- SECURITY EQUIPMENT RACK
- UPS — UNINTERRUPTIBLE POWER SUPPLY
- METAL DETECTOR
- CR — PROXIMITY CARD READER
- KP — CARD READER AND KEYPAD
- GB — GLASS BREAK SENSOR
- MD — MOTION DETECTOR
- DA W — DURESS ALARM - WALL MTD (48" AFF)
- DA F — DURESS ALARM - FURNITURE MOUNTED- COORDINATE WITH FURNITURE PROVIDER
- MASTER INTERCOM
- INTERCOM WALL STATION (48" AFF TO BUTTON)
- INMATE EMERGENCY INTERCOM TO MAIN CONTROL (DOOR FRAME MOUNT 18" AFF)
- S — PAGING SPEAKER
- CALL BUTTON
- TALK THRU COMMUNICATOR
- TALK THRU UNIT
- M — VIDEO MONITOR
- 01 — CCTV CAMERA - FIXED
- 01 — CCTV CAMERA - PTZ
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- D101 D100 — DOOR INTERLOCK
- PB — DOOR RELEASE PUSHBUTTON
- X — GRAPHICAL USER INTERFACE: A = MASTER CONTROL, B = DETENTION CONTROL

REFER TO SPEC SECTION 08 71 00

- DPS — DOOR POSITION SWITCH
- EL — ELECTRIC LOCK DEVICE
- RX — REQUEST TO EXIT DEVICE
- DE — DELAYED EGRESS DEVICE

N

SECURITY ELECTRONICS - FIRST FLOOR
1/8" = 1'-0"

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NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

SECURITY ELECTRONICS FIRST FLOOR PLAN

SE2.1

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DOOR CONTROL / MONITORING LEGEND
(NOT ALL SYMBOLS NECESSARILY USED)

- CONTROL PANEL FROM WHICH DOOR, ASSOCIATED INTERCOMS & EMERGENCY PUSH BUTTONS ARE CONTROLLED & MONITORED FROM
- CONTROL PANEL FROM WHICH DOOR IS ONLY MONITORED FROM
- LOCK TYPE

A. 8" JAMB MTD ELECTRO-MECHANICAL LOCK
B. 2" JAMB MTD ELECTRO-MECHANICAL LOCK
C. SWING DOOR MANUAL DETENTION LOCK
D. ELECTRO-MECHANICAL SLIDING DOOR DEVICE
E. NON-DETENTION DOOR WITH INTERFACING TO SECURITY CONTROL TOUCHSCREEN
F. SWING DOOR INSTITUTIONAL MORTISE ELECTRIC LOCK
G. SWING OR SLIDING GATE W/ INTERFACING TO SECURITY CONTROL TOUCHSCREEN
H. SWING DOOR MANUAL LOCK
J. -NOT USED-

KEYNOTES
APPLIES TO DRAWINGS SE2.1 - SE2.3
REPRESENTED BY [n]

1. LOBBY ENTRANCE TO BE OPEN DURING BUSINESS HOURS VIA THE ACCESS CONTROL SYSTEM. OWNER SHALL BE PROVIDED MEANS TO OVERRIDE DOOR SCHEDULE AND LOCK DOWN DOORS IN EVENT OF EMERGENCY.
2. INTEGRATE ACCESS CONTROL WITH DELAYED EGRESS DEVICE TO SHUNT ALARM FOR EXIT AND RESET IT IF ACTIVATED.
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5. PROVIDE CONDUIT FOR FRAME MOUNTED TALK THRU UNIT FOR LOW VOLTAGE POWER FROM SECURITY ELECTRONICS EQUIPMENT ROOM. NOTE TTU BASIS OF DESIGN: HAVEN SC-600.

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY AND GREATER QUANTITY OF WORK.
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D. COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON NEEDS IN THE FIELD AND ACTUAL CAMERA MODELS BEING USED.

SECURITY SYSTEMS LEGEND
(ALL SYMBOLS NOT NECESSARILY USED)

- PLC — PROGRAMMABLE LOGIC CONTROLLER CABINET AND/OR RELAY CABINET
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REFER TO SPEC SECTION 08 71 00

- DPS — DOOR POSITION SWITCH
- EL — ELECTRIC LOCK DEVICE
- RX — REQUEST TO EXIT DEVICE
- DE — DELAYED EGRESS DEVICE

N

SECURITY ELECTRONICS - SECOND FLOOR
1/8" = 1'-0"

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NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.: 571990	DATE: MAY 22, 2019
REVISIONS	
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SECURITY ELECTRONICS SECOND FLOOR PLAN

SE2.2

DOOR CONTROL / MONITORING LEGEND
(NOT ALL SYMBOLS NECESSARILY USED)

1 CONTROL PANEL FROM WHICH DOOR ASSOCIATED INTERCOMS & EMERGENCY PUSH BUTTONS ARE CONTROLLED & MONITORED FROM

1 CONTROL PANEL FROM WHICH DOOR IS ONLY MONITORED FROM

LOCK TYPE

A 8" JAMB MTD ELECTRO-MECHANICAL LOCK

B 2" JAMB MTD ELECTRO-MECHANICAL LOCK

C SWING DOOR MANUAL DETENTION LOCK

D ELECTRO-MECHANICAL SLIDING DOOR DEVICE

E NON-DETENTION DOOR WITH INTERFACING TO SECURITY CONTROL TOUCHSCREEN

F SWING DOOR INSTITUTIONAL MORTISE ELECTRIC LOCK

G SWING OR SLIDING GATE W/ INTERFACING TO SECURITY CONTROL TOUCHSCREEN

H SWING DOOR MANUAL LOCK

J -NOT USED-

KEYNOTES
APPLIES TO DRAWINGS SE2.1 - SE2.3
REPRESENTED BY n

1. LOBBY ENTRANCE TO BE OPEN DURING BUSINESS HOURS VIA THE ACCESS CONTROL SYSTEM. OWNER SHALL BE PROVIDED MEANS TO OVERRIDE DOOR SCHEDULE AND LOCK DOWN DOORS IN EVENT OF EMERGENCY.
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5. PROVIDE CONDUIT FOR FRAME MOUNTED TALK THRU UNIT FOR LOW VOLTAGE POWER FROM SECURITY ELECTRONICS EQUIPMENT ROOM. NOTE TTU BASIS OF DESIGN: HAVEN SC-600.

GENERAL NOTES

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D. COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON NEEDS IN THE FIELD AND ACTUAL CAMERA MODELS BEING USED.

SECURITY SYSTEMS LEGEND
(ALL SYMBOLS NOT NECESSARILY USED)

- PLC — PROGRAMMABLE LOGIC CONTROLLER CABINET AND/OR RELAY CABINET
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REFER TO SPEC SECTION 08 71 00

- DPS — DOOR POSITION SWITCH
- EL — ELECTRIC LOCK DEVICE
- RX — REQUEST TO EXIT DEVICE
- DE — DELAYED EGRESS DEVICE



N

SECURITY ELECTRONICS - THIRD FLOOR
1/8" = 1'-0"

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NEW DJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

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571990	MAY 22, 2019

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DATE	DESCRIPTION

SECURITY ELECTRONICS THIRD FLOOR PLAN

SE2.3

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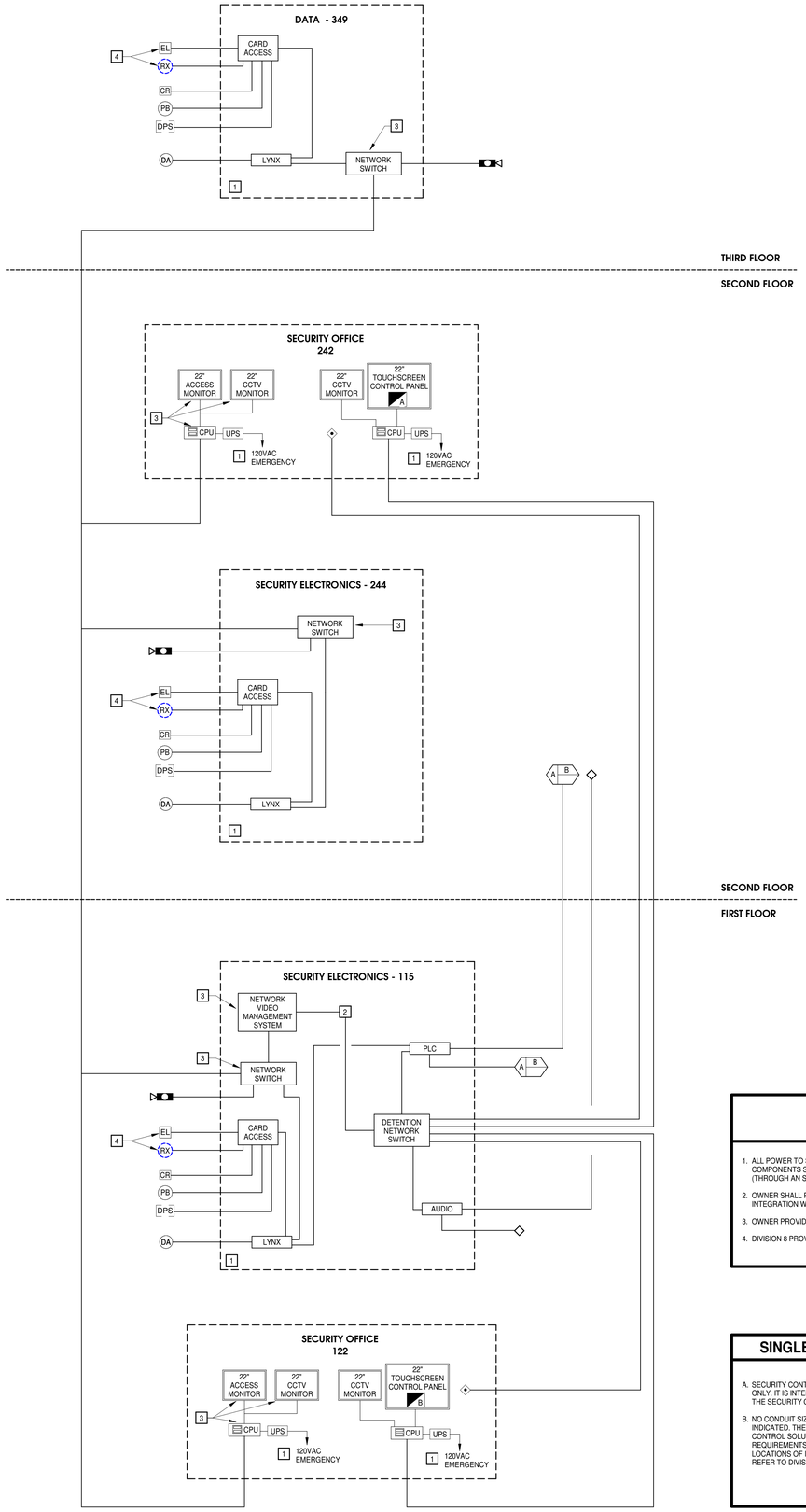


SINGLE LINE DIAGRAM

KEYNOTES

APPLIES TO SINGLE LINE DIAGRAM
REPRESENTED BY [n]

1. ALL POWER TO SECURITY HEADEND EQUIPMENT AND ASSOCIATED FIELD COMPONENTS SHALL BE CONNECTED TO EMERGENCY / GENERATOR POWER (THROUGH AN SCSC PROVIDED UPS).
2. OWNER SHALL PROVIDE A SECOND NETWORK CARD ON ALL CCTV SERVERS FOR INTEGRATION WITH TOUCH SCREEN SYSTEM FOR CAMERA CALL UP.
3. OWNER PROVIDED EQUIPMENT.
4. DIVISION 8 PROVIDED EQUIPMENT.

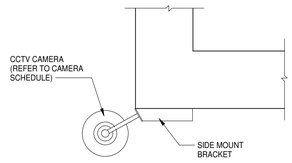
SINGLE LINE DIAGRAM GENERAL NOTES

A. SECURITY CONTROL SYSTEM CABLING AND WIRING INDICATED IS DIAGRAMMATIC ONLY. IT IS INTENDED TO SHOW PROPOSED LOCATIONS OF MAJOR COMPONENTS OF THE SECURITY CONTROL SYSTEM AND THEIR INTERCONNECTION.

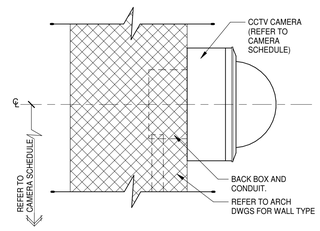
B. NO CONDUIT SIZES OR QUANTITIES NOR CONDUCTOR TYPES OR QUANTITIES ARE INDICATED. THE SECURITY CONTROL SYSTEM CONTRACTOR'S (SCSC) INDIVIDUAL CONTROL SOLUTION WILL DETERMINE THE EXACT CONDUIT AND CONDUCTOR REQUIREMENTS. REFER TO DRAWINGS SE2.1 THROUGH SE2.3 FOR QUANTITIES AND LOCATIONS OF INDIVIDUAL SECURITY CONTROL SYSTEM EQUIPMENT AND DEVICES. REFER TO DIVISION 26 ELECTRICAL FOR POWER.

SECURITY - CAMERA SCHEDULE

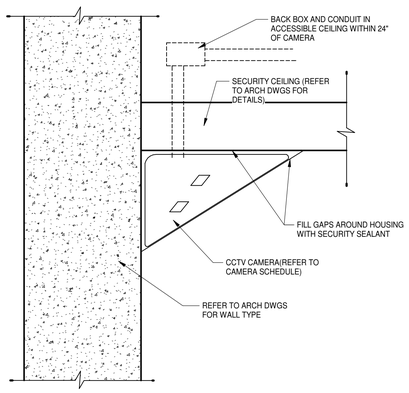
CAMERA NO.	CAMERA TYPE	MOUNTING TYPE	MOUNTING HEIGHT	MOUNTING DETAIL	NOTES
01	FIXED	RECESSED	CEILING	1/SE3.1	
02	180°	RECESSED	CEILING	1/SE3.1	FISHEYE LENS
03	360°	RECESSED	CEILING	1/SE3.1	FISHEYE LENS
04	180°	RECESSED	CEILING	1/SE3.1	FISHEYE LENS
05	360°	SURFACE	CEILING	2/SE3.1	
06	FIXED	RECESSED	CEILING	1/SE3.1	
07	FIXED	CORNER	CEILING	3/SE3.1	
08	360°	RECESSED	CEILING	1/SE3.1	FISHEYE LENS
09	FIXED	RECESSED	CEILING	1/SE3.1	
10	FIXED	RECESSED	CEILING	1/SE3.1	
11	FIXED	RECESSED	CEILING	1/SE3.1	
12	360°	SURFACE	CEILING	2/SE3.1	
13	FIXED	RECESSED	CEILING	1/SE3.1	
14	FIXED	RECESSED	CEILING	1/SE3.1	
15	FIXED	RECESSED	CEILING	1/SE3.1	
16	FIXED	RECESSED	CEILING	1/SE3.1	
21	FIXED	SURFACE	8' AFF	4/SE3.1	
22	FIXED	SURFACE	8' AFF	4/SE3.1	
23	FIXED	SURFACE	8' AFF	4/SE3.1	
31	FIXED	SURFACE	8' AFF	4/SE3.1	
32	FIXED	SURFACE	8' AFF	4/SE3.1	
33	FIXED	SURFACE	8' AFF	4/SE3.1	
101	FIXED	SURFACE	8' AFF	4/SE3.1	
102	FIXED	SURFACE	8' AFF	4/SE3.1	
103	FIXED	CORNER	CEILING	3/SE3.1	
104	FIXED	SURFACE	CEILING	2/SE3.1	
105	FIXED	SURFACE	CEILING	2/SE3.1	
106	FIXED	CORNER	CEILING	3/SE3.1	
107	FIXED	CORNER	CEILING	3/SE3.1	
108	FIXED	CORNER	CEILING	3/SE3.1	
109	FIXED	CORNER	CEILING	3/SE3.1	
110	FIXED	CORNER	CEILING	3/SE3.1	
111	FIXED	CORNER	CEILING	3/SE3.1	
112	FIXED	CORNER	CEILING	3/SE3.1	
113	FIXED	CORNER	CEILING	3/SE3.1	
114	FIXED	SURFACE	CEILING	2/SE3.1	
115	FIXED	SURFACE	CEILING	2/SE3.1	
121	FIXED	SURFACE	CEILING	2/SE3.1	
122	FIXED	SURFACE	CEILING	2/SE3.1	
123	FIXED	CORNER	CEILING	3/SE3.1	
124	FIXED	CORNER	CEILING	3/SE3.1	
125	FIXED	CORNER	CEILING	3/SE3.1	
126	FIXED	CORNER	CEILING	3/SE3.1	
127	FIXED	SURFACE	8' AFF	4/SE3.1	
201	360°	SURFACE	CEILING	2/SE3.1	
202	360°	SURFACE	CEILING	2/SE3.1	
203	360°	SURFACE	CEILING	2/SE3.1	
204	360°	SURFACE	CEILING	2/SE3.1	
205	360°	SURFACE	CEILING	2/SE3.1	
206	FIXED	RECESSED	CEILING	1/SE3.1	
207	FIXED	RECESSED	CEILING	1/SE3.1	
208	FIXED	RECESSED	CEILING	1/SE3.1	
209	FIXED	RECESSED	CEILING	1/SE3.1	
210	FIXED	RECESSED	CEILING	1/SE3.1	
211	FIXED	RECESSED	CEILING	1/SE3.1	
212	FIXED	RECESSED	CEILING	1/SE3.1	
213	360°	SURFACE	CEILING	2/SE3.1	
214	360°	SURFACE	CEILING	2/SE3.1	
215	360°	SURFACE	CEILING	2/SE3.1	
216	360°	SURFACE	CEILING	2/SE3.1	
217	FIXED	RECESSED	CEILING	1/SE3.1	
218	FIXED	RECESSED	CEILING	1/SE3.1	
301	FIXED	RECESSED	CEILING	1/SE3.1	
302	360°	SURFACE	CEILING	2/SE3.1	
303	FIXED	RECESSED	CEILING	1/SE3.1	
304	FIXED	RECESSED	CEILING	1/SE3.1	
305	FIXED	RECESSED	CEILING	1/SE3.1	
306	FIXED	RECESSED	CEILING	1/SE3.1	
307	FIXED	RECESSED	CEILING	1/SE3.1	
308	FIXED	RECESSED	CEILING	1/SE3.1	
309	FIXED	RECESSED	CEILING	1/SE3.1	
310	FIXED	RECESSED	CEILING	1/SE3.1	
311	FIXED	RECESSED	CEILING	1/SE3.1	
312	FIXED	RECESSED	CEILING	1/SE3.1	
501	360°	SURFACE	CEILING	2/SE3.1	
502	360°	SURFACE	12' AFF	5/SE3.1	
503	360°	SURFACE	12' AFF	5/SE3.1	
504	360°	SURFACE	12' AFF	5/SE3.1	
505	360°	SURFACE	CEILING	2/SE3.1	
506	FIXED	SURFACE	8' AFF	4/SE3.1	



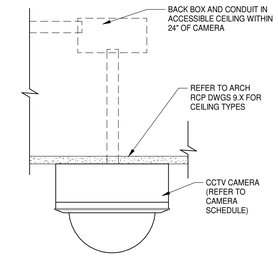
5 SE3.1 DETAIL - EXT CORNER WALL MOUNTED DOME CAMERA
NO SCALE



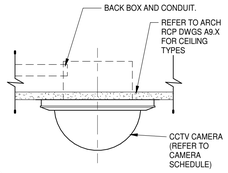
4 SE3.1 DETAIL - WALL SURFACE MOUNTED CAMERA
NO SCALE



3 SE3.1 DETAIL - CEILING CORNER MOUNT CAMERA
NO SCALE



2 SE3.1 DETAIL - CEILING SURFACE MOUNTED CAMERA
NO SCALE



1 SE3.1 DETAIL - CEILING RECESSED MOUNTED CAMERA
NO SCALE

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DANIEL R. MACE REGISTERED ARCHITECT 8712 NORTH CAROLINA CHARLOTTE

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS	
DATE	DESCRIPTION

CAMERA SCHEDULE/DETAILS AND SINGLE LINE DIAGRAM

SE3.1

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STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL, ARCHITECT
AVG	AVERAGE
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CFSF	COLD FORMED STEEL FRAMING
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DIAG	DIAGONAL
DIAM	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISHED
FLR	FLOOR
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FRMG	FRAMING
FRT	FIRE RETARDANT TREATED
FT	FOOT
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GRD	GRADE
HD	HEADED
HK	HOOK
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
IN	INCH
INFO	INFORMATION
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JS	JOIST SUBSTITUTE
JST	JOIST
JT	JOINT
K	KIP
LBS	POUNDS
LF	LINEAR FEET (FOOT)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
M	METER(S)
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MM	MILLIMETER(S)
NOM	NOMINAL
NS	NON SHRINK
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPNG	OPENING
OPP	OPPOSITE
PC CONC	PRECAST CONCRETE
PLF	POUNDS PER LINEAR FOOT
POLY	POLYETHYLENE
PPT	PRESSURE PRESERVATIVE TREATED
PSF	POUNDS PER SQUARE FOOT
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING, REINFORCED
REQD	REQUIRED
SIM	SIMILAR
SL	SLOPE
SOG	SLAB ON GRADE
SPA	SPACES
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRY(RICAL)
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TF	TRANSFER FORCE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOSL	TOP OF SLAB
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VERT	VERTICAL
VR	VAPOR RETARDER
WP	WORK POINT
WWF	WELDED WIRE FABRIC

STRUCTURAL MATERIALS LEGEND

- EARTH
- CAST IN PLACE CONCRETE
- CLAY BRICK
- HOLLOW CONCRETE BLOCK
- SPLIT-FACE CONCRETE BLOCK
- GROUT FILLED CONCRETE BLOCK
- PRECAST CONCRETE
- POROUS FILL

PLAN LEGEND

℄	CENTERLINE
JBE (+X'-X")	JOIST BEARING ELEVATION
BP1, BP2 ...	BEAM BEARING PLATE MARK
BP-A, BP-B ...	COLUMN BASE PLATE MARK
P-1, P-2 ...	CONCRETE PIER MARK
JS	JOIST SUBSTITUTE
SP	SPECIAL JOIST
	WALL FOOTING STEP
-X'-X"	TOP OF FOOTING ELEVATION
WP	WORK POINT
(X'-X")	TOP OF SLAB ELEVATION
L1, L2 ...	LINTEL MARK
X.X	COLUMN FOOTING MARK
(+X'-X")	TOP OF STEEL BEAM ELEVATION
(J)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE IN SAME PLANE AS TOP OF JOIST
(SL)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE SLOPED
WFX.X	WALL FOOTING MARK
	THICKENED SLAB
*	STEEL JOIST BOTTOM CHORD EXTENSION, WELDED
	STEEL BEAM MOMENT CONNECTION
(E)	EXISTING
TF	TRANSFER FORCE

DESIGN LOAD DATA

1. CLASSIFICATION OF BUILDING — RISK CATEGORY (IBC TABLE 1604.5): III

2. FLOOR LIVE LOADS

	UNIFORM	CONCENTRATED
OFFICES	50 PSF	2000 LB
PARTITION ALLOWANCE	15 PSF	
CORRIDORS ABOVE FIRST FLOOR	80 PSF	2000 LB
LOBBIES AND FIRST FLOOR CORRIDORS	100 PSF	2000 LB
LIGHT STORAGE	125 PSF	
MECHANICAL ROOMS	150 PSF	
CELLS	40 PSF	
STAIRS	100 PSF	

CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.

REDUCTION OF FLOOR LIVE LOAD HAS BEEN UTILIZED.

3. ROOF LIVE LOADS

MINIMUM ROOF LIVE LOAD	20 PSF	300 LB

CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.

REDUCTION OF MINIMUM ROOF LIVE LOAD HAS NOT BEEN UTILIZED.

4. ROOF SNOW LOAD

GROUND SNOW LOAD (Pg)	10 PSF
IMPORTANCE FACTOR (Is)	1.1
EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.0
FLAT ROOF SNOW LOAD (Pf = 0.7 x Ce x Ct x Is x Pg)	8.5 PSF
MINIMUM Pf FOR Pg = 20 PSF OR LESS	
Pf min = I x Pg	11 PSF

5. WIND DESIGN DATA

ULTIMATE DESIGN WIND SPEED (3 SECOND GUST)	156 MPH
EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT (GCpi)	±0.18 (ENCLOSED)
COMPONENTS AND CLADDING WIND PRESSURE	PER IBC & ASCE7

6. SEISMIC DESIGN DATA

SEISMIC DESIGN CATEGORY	C
SEISMIC IMPORTANCE FACTOR (Ie)	1.25
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
(Ss)	0.214
(S1)	0.091
DESIGN SPECTRAL RESPONSE ACCELERATIONS	
(Sds)	0.228
(Sd1)	0.145
BASIC SEISMIC FORCE RESISTING SYSTEM:	BUILDING FRAME SYSTEM STEEL ORDINARY MOMENT FRAME INTERMEDIATE CMU SHEAR WALL

ALL STEEL SYSTEMS ARE SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

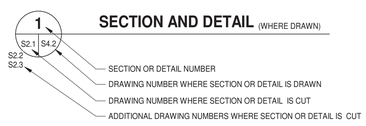
RESPONSE MODIFICATION COEFFICIENT (R)	3.0
SYSTEM OVERSTRENGTH FACTOR	3.0
DEFLECTION AMPLIFICATION FACTOR	3.0
SEISMIC RESPONSE COEFFICIENT (Cs)	0.096
DESIGN BASE SHEAR (V = Cs x W)	0.096W
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

7. LATERAL EARTH PRESSURE (EQUIVALENT FLUID PRESSURES)

AT REST (BRACED WALLS)	60 PCF
ACTIVE (CANTILEVERED WALLS)	40 PCF
PASSIVE	440 PCF
SLIDING FRICTION COEFFICIENT	0.35

LEGEND FOR SECTION AND DETAIL MARKS

SECTION AND DETAIL (WHERE DRAWN)



SECTION WHERE CUT



DETAIL WHERE CUT



GENERAL

1. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE (NCBC), 2018 EDITION.
3. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF THE OTHER ENGINEERING DISCIPLINES.
4. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANITY OF WORK.
5. VERIFY AND COORDINATE MECHANICAL UNIT SUPPORTS AND OPENINGS WITH EQUIPMENT PURCHASED FOR THE PROJECT. COORDINATE REQUIREMENTS FOR SLEEVES, HANGERS, INSERTS, ANCHORS AND ALL OTHER ITEMS TO BE SET IN STRUCTURAL WORK.
6. SPECIAL INSPECTIONS ARE REQUIRED BY THE 2018 NCBC, SECTION 1704. REFER TO THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THIS PROJECT AND THE FOLLOWING PROJECT SPECIFICATIONS FOR SPECIFIC INSPECTION REQUIREMENTS.

033000	CAST-IN-PLACE CONCRETE
042000	UNIT MASONRY
051200	STRUCTURAL STEEL FRAMING
052100	STEEL JOIST FRAMING
053100	STEEL DECKING
054000	COLD FORMED STEEL FRAMING
078116	SPRAYED FIRE RESISTIVE MATERIALS
312000	EARTHWORK

REFER TO SPECIFICATION SECTION 014000 FOR GENERAL INSPECTION REQUIREMENTS.

FOUNDATIONS

1. FOUNDATIONS ARE DESIGNED TO BEAR ON ORIGINAL UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL WITH AN ALLOWABLE BEARING CAPACITY OF 2000 PSF, IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY ECS SOUTHEAST, LLP DATED NOVEMBER 27TH 2018.
2. THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY SHALL VERIFY BEARING CAPACITY AND SUITABILITY OF SUBGRADE PRIOR TO PLACING FOUNDATIONS AND GRADE SLABS.
3. SELECT AND PLACE CONTROLLED COMPACTED FILL UNDER DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY.
4. FOOTING STEPS FOR UNDERSLAB UTILITIES INDICATED ON FOUNDATION PLANS SHALL BE CONSIDERED APPROXIMATE. COORDINATE FOOTINGS WITH ACTUAL LOCATION, SIZE AND INVERT OF ALL UNDERGROUND PIPE (AND CONDUIT). REFER TO "FOOTING STEP" DETAIL TO STEP WALL FOOTING DOWN TO ALLOW UNDERSLAB PIPING TO PASS ABOVE THE FOOTING. ALTERNATELY, REFER TO "FOOTING SLEEVE" AND "PIPE TRENCH BACKFILL AT FOOTING" DETAILS TO ALLOW UNDERSLAB PIPING TO PASS BELOW THE TOP OF THE WALL FOOTING.
5. AVOID INFLUENCE OF PIPE TRENCH PARALLEL TO WALL FOOTING AND / OR ADJACENT TO COLUMN FOOTING. REFER TO "TRENCH LOCATION DETAIL".
6. PROTECT FOOTINGS AND GRADE SLABS FROM FROST HEAVE UNTIL BUILDING IS PERMANENTLY ENCLOSED.
7. BRACE WALLS PLUMB WHICH ARE SUBJECTED TO UNBALANCED BACKFILL UNTIL PERMANENTLY STABILIZED BY STRUCTURE.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-11 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301-10 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".
2. CONCRETE SHALL BE NORMAL WEIGHT (OR LIGHTWEIGHT AS INDICATED) AND SHALL OBTAIN ULTIMATE 28 DAY COMPRESSIVE STRENGTHS (f'c), AS FOLLOWS:

FOOTINGS	3000 PSI
SLAB-ON-GRADE	3500 PSI
SLABS ON STEEL DECK	3500 PSI
COLUMNS, PIERS AND WALLS	4000 PSI
GRADE BEAMS	4000 PSI

3. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED.
4. REINFORCING STEEL SHALL BE AS FOLLOWS:
   - REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED
   - WELDED WIRE FABRIC: ASTM A185, SHEET TYPE ONLY
   - WELDABLE REINFORCING BARS: ASTM A706 LOW ALLOW STEEL REINFORCING BARS, DEFORMED
   - DEFORMED BAR ANCHORS (DBA) ASTM A496, DEFORMED, (FOR CONCRETE REINFORCING)
   - LAP SPLICES SHALL BE CLASS B UNLESS NOTED OTHERWISE
   - WELDING PER AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL
5. UNLESS OTHERWISE INDICATED, PROVIDE CONTROL JOINTS IN SLABS ON GRADE WITHIN THE BUILDING, SUCH THAT THE AREA BOUNDED BY CONTROL JOINTS DOES NOT EXCEED 225 SQUARE FEET AND JOINT SPACING DOES NOT EXCEED 15'-0" ON CENTER IN ANY ONE DIRECTION. THE RATIO OF LENGTH TO WIDTH OF THE AREA BOUNDED BY CONTROL JOINTS SHALL NOT EXCEED 1.5 TO 1. PROVIDE DIAMOND OR CIRCULAR BLOCKOUTS AT COLUMNS.
6. REINFORCE ALL RE-ENTRANT CORNERS OF SLAB CASTINGS WITH (2) #4 x 3'-0" LONG IN ADDITION TO WELDED WIRE FABRIC.
7. PROVIDE BOND BREAK WHERE FLOOR SLAB ABUTS CMU OR CONCRETE WALL.
8. PLACE CONCRETE MONOLITHICALLY ON STEEL FLOOR DECK. CONSTRUCTION JOINTS MAY BE PERMITTED ONLY AFTER APPROVAL OF THE ARCHITECT / STRUCTURAL ENGINEER.
9. CONCRETE THICKNESS INDICATED ON FLOOR DECK IS A MINIMUM THICKNESS AND MAY INCREASE TO MAINTAIN A LEVEL SURFACE AS FLOOR FRAMING DEFLECTS DURING CONCRETE PLACEMENT.

FIBER REINFORCING

1. SYNTHETIC MACRO-FIBER REINFORCING MAY BE SUBSTITUTED FOR WELDED WIRE FABRIC IN SLAB ON GRADE AND IN SLAB ON COMPOSITE STEEL FLOOR DECK.
2. DOSAGE RATE SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS (4 LB / YD MIN).
3. FIBER SHALL BE ADDED AT THE CONCRETE BATCH PLANT.
4. FIBER SHALL BE INCLUDED IN THE CONCRETE MIX DESIGNS SUBMITTED FOR REVIEW.

FLOWABLE FILL

1. CONTROLLED LOW STRENGTH MATERIAL (CLSM), ALSO REFERRED TO AS FLOWABLE FILL, MAY BE SUBMITTED FOR APPROVAL AS A SUBSTITUTE FOR COMPACTED FILL AT FOUNDATION UNDEROUT LOCATIONS. THE CLSM MIXTURE SHALL BE PROPORTIONED TO PRODUCE AN UNCONFINED COMPRESSIVE STRENGTH OF 100 PSI MINIMUM TO 300 PSI MAXIMUM.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING AISC DOCUMENTS:
   AISC 360-10 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", DATED JUNE 22, 2010.
   AISC 303-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", DATED APRIL 14, 2010.
   RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS", DATED DECEMBER 31, 2009.
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

WIDE FLANGE SHAPES	ASTM A992 (FY=50 KSI)
MISCELLANEOUS SHAPES, PLATES & BARS	ASTM A36 (FY=36 KSI)
HOLLOW STRUCTURAL SECTIONS (HSS)	
SQUARE & RECTANGLE	ASTM A500, GRADE B (FY=46 KSI)
ROUND	ASTM A500, GRADE B (FY=42 KSI)
PIPE	ASTM A53, GRADE B TYPE E OR S (FY=35 KSI)
HIGH STRENGTH BOLTS	ASTM A325
WASHERS	ASTM F436
HEAVY HEX NUTS	ASTM A563
TWIST OFF TENSION CONTROL BOLTS	ASTM F1852
COMPRESSIBLE-WASHER DIRECT-TENSION INDICATORS	ASTM F959
ANCHOR RODS	ASTM F1554, GR. 36, UNO
WELDING ELECTRODES	E70 (LOW HYDROGEN)
HEADED SHEAR STUDS	ASTM A108
THREADED ROD	ASTM A36
CLEVISES AND TURNBUCKLES	AISI C-1035

3. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION AS SIMPLE CONNECTIONS USING ALLOWABLE STRENGTH DESIGN (ASD). CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR THE UNIFORM LOAD CAPACITY INDICATED IN THE ALLOWABLE UNIFORM LOAD TABLES, PART 3, OF THE AISC MANUAL OF STEEL CONSTRUCTION. CONNECTIONS FOR COMPOSITE STEEL BEAMS SHALL BE DESIGNED FOR THE REACTIONS INDICATED ON THE PLANS.
4. BOLTED JOINTS SHALL BE "SNUG TIGHTENED", UNLESS OTHERWISE INDICATED.
5. WHERE INDICATED, BOLTED JOINTS SHALL BE "SLIP CRITICAL". PRE-INSTALLATION VERIFICATION IS REQUIRED.
6. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
7. WHERE STRUCTURAL STEEL IS EXPOSED BELOW GRADE, OR ENCASED IN CMU, PROVIDE MINIMUM 3" CONCRETE COVER OR COAT WITH BITUMINOUS MASTIC.
8. STRUCTURAL STEEL EXPOSED TO WEATHER IN THE FINISHED WORK SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS NOTED OTHERWISE.
9. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL INDICATED THUS (AESS), SHALL CONFORM TO THE REQUIREMENTS OF SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, DATED APRIL 14, 2010. ALL FABRICATION AND CONNECTIONS OF COMPONENTS EXPOSED AND VISIBLE IN THE FINISHED WORK SHALL BE MADE WITH CONTINUOUS WELDS. INTERMITTENT WELDS ARE ACCEPTABLE FOR NON-EXPOSED OR NON-VISIBLE LOCATIONS. WELD SIZE SHALL BE AS REQUIRED FOR STRUCTURAL STRENGTH BUT NOT LESS THAN 1/8" FILLET. HOLES BURNED THROUGH STEEL DECK DURING WELDING SHALL NOT BE ALLOWED. REPLACEMENT OF DECK WILL BE REQUIRED.

STEEL JOISTS

1. ALL STEEL JOIST WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.
2. STEEL JOISTS SHALL BE DESIGNED USING ALLOWABLE STRENGTH DESIGN (ASD).
3. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS, OSHA REQUIREMENTS, AND AS REQUIRED BY JOIST DESIGN. ONLY ANTICIPATED DIAGONAL BRIDGING HAS BEEN INDICATED ON PLANS FOR COORDINATION PURPOSES.
4. ROOF JOISTS AND BRIDGING SHALL BE DESIGNED PER THE WIND LOAD DIAGRAM ON S0.0.2.
5. REFER TO "TYP LOAD SUPPORTED FROM JOIST DETAIL" ON S4.0.2 FOR SUPPORTING LOADS FROM JOISTS.
6. SPECIAL JOISTS, INDICATED "SP" ON FRAMING PLANS, SHALL BE DESIGNED FOR CRITERIA INDICATED.
7. DETAILING AND ERECTION OF OPEN WEB STEEL JOISTS SHALL COMPLY WITH OSHA REQUIREMENTS.
8. STEEL ROOF JOIST SHALL BE PROVIDED WITH NO CAMBER.
9. DESIGN ALL JOISTS (K, KCS, LH) FOR 500 LB CONCENTRATED LOAD (SERVICE LOAD) AT ALL DIAGONAL STRUTS FRAMING TO JOIST CHORDS, UNLESS NOTED OTHERWISE.
10. TOP CHORD OF K-SERIES JOISTS SHALL BE DESIGNED FOR A POINT LOAD OF 200 POUNDS DEAD LOAD, LOCATED AT ANY POINT ALONG JOIST LENGTH, IN ADDITION TO ALL OTHER LOADS.
11. BOTTOM CHORD OF K-SERIES JOISTS SHALL BE DESIGNED FOR A POINT LOAD OF 200 POUNDS DEAD LOAD, LOCATED AT ANY POINT ALONG JOIST LENGTH, IN ADDITION TO ALL OTHER LOADS.
12. TOP CHORD OF KCS AND LH SERIES JOISTS SHALL BE DESIGNED FOR A POINT LOAD OF 500 POUNDS DEAD LOAD, LOCATED AT ANY POINT ALONG JOIST LENGTH, IN ADDITION TO ALL OTHER LOADS.
13. BOTTOM CHORD OF KCS AND LH SERIES JOISTS SHALL BE DESIGNED FOR A POINT LOAD OF 500 POUNDS DEAD LOAD, LOCATED AT ANY POINT ALONG JOIST LENGTH, IN ADDITION TO ALL OTHER LOADS.
14. COORDINATE SUPPORT OF SPRINKLER PIPING, INCLUDING MAINS, WITH JOIST MANUFACTURER. SPRINKLER MANUFACTURER SHALL OBTAIN A LETTER FROM THE JOIST MANUFACTURER VERIFYING THAT THE PIPE HANGER LOCATIONS AND LOADS HAVE BEEN PROVIDED FOR THEIR USE. THIS LETTER SHALL BE SUBMITTED TO THE ARCHITECT WITH THE SPRINKLER SUBMITTAL PACKAGE. IF LOCATIONS OF MAINS ARE ALTERED FROM THE INFORMATION PROVIDED BY THE SPRINKLER MANUFACTURER TO THE JOIST MANUFACTURER, ADDITIONAL FRAMING SHALL BE ADDED TO PROVIDE ADEQUATE SUPPORT FOR THE PIPE LOADS AT NO COST TO THE OWNER.

STEEL DECK

1. ALL STEEL DECK WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE (SDI) "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS", AND AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
2. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL".
3. PERMANENT LOADS SHALL NOT BE SUSPENDED FROM STEEL ROOF DECK UNLESS APPROVED BY ENGINEER.
4. STEEL DECK UP TO 2" DEEP SHALL BE INSTALLED WITH A MINIMUM OF 3 CONTINUOUS SPANS, UNLESS NOTED OTHERWISE. STEEL DECK 3" DEEP OR GREATER SHALL BE INSTALLED WITH A MINIMUM OF 2 CONTINUOUS SPANS, UNLESS NOTED OTHERWISE. ANY LOCATIONS NOT MEETING THESE CONDITIONS SHALL BE SPECIFICALLY IDENTIFIED ON THE STEEL DECK SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT.
5. REFER TO "STEEL DECK SCHEDULE" FOR DECK TYPES AND FASTENING REQUIREMENTS.

STEEL DECK SCHEDULE

DECK TYPE 1	1 1/2" - 20 GAGE WIDE RIB ROOF DECK, GALVANIZED	FASTEN TO ALL SUPPORTS WITH #12 TEK SCREWS AT A 36/7 PATTERN, AND AT 6" OC AT ALL EDGES AND END LAPS. FASTEN SIDELAPS WITH A MINIMUM OF (6) #10 TEK SCREWS PER SPAN (MAX SPACING OF 10" OC).
DECK TYPE 2	2" - 18 GAGE COMPOSITE FLOOR DECK, GALVANIZED	FASTEN TO ALL SUPPORTS AND EDGES WITH 5/8" DIAMETER PUDDLE WELDS AT A 36/4 PATTERN, AND AT 6" OC AT ALL EDGES AND END LAPS. FASTEN SIDELAPS WITH A MINIMUM OF (4) #10 TEK SCREWS PER SPAN (MAX SPACING OF 20" OC).
DECK TYPE 3	3" - 20 GAGE WIDE RIB ROOF DECK, GALVANIZED	FASTEN TO ALL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AT 24/4 PATTERN, AND AT 6" OC AT ALL EDGES. FASTEN SIDELAPS BY WELDING OR WITH #10 TEK SCREWS AT NOT GREATER THAN 12" OC.
DECK TYPE 4	1 1/2" - 20 GAGE WIDE RIB ROOF DECK, GALVANIZED	FASTEN TO ALL SUPPORTS WITH #12 TEK SCREWS AT A 36/4 PATTERN, AND AT 6" OC AT ALL EDGES AND END LAPS. FASTEN SIDELAPS WITH #10 TEK SCREWS AT 12" OC.

CONCRETE MASONRY (CMU)

1. ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 530-11 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES WITH COMMENTARY" AND ACI 530.1-11 "SPECIFICATIONS FOR MASONRY STRUCTURES WITH COMMENTARY".
2. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY(F'm), SHALL BE 1500 PSI, UNLESS NOTED OTHERWISE.
3. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, AND SHALL BE MADE WITH LIGHTWEIGHT AGGREGATE.
4. MORTAR FOR CMU SHALL CONFORM TO ASTM C270, TYPE S, UNLESS NOTED OTHERWISE. MORTAR FOR CMU SHALL CONFORM TO ASTM C270, TYPE M (2500 PSI), AT ALL INTERIOR AND EXTERIOR CMU SECURITY WALLS AND PARTITIONS.
5. GROUT SHALL CONFORM TO ASTM C476 AND SHALL BE PROPORTIONED TO OBTAIN MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
6. PLACE GROUT IN ACCORDANCE WITH ACI 530.1-11. ALLOW A MINIMUM OF 24 HOURS FOR MASONRY TO SET PRIOR TO PLACING GROUT.
7. FILL COLLAR JOINTS OF COMPOSITE WALLS SOLID WITH MORTAR AS THE WALLS PROGRESS. BOND WYTHES OF COMPOSITE WALLS TOGETHER USING HORIZONTAL JOINT REINFORCING @ 16" ON CENTER, UNLESS NOTED OTHERWISE.
8. PROVIDE VERTICAL REINFORCING STEEL OF SIZE AND SPACING INDICATED. LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:

#5 BAR AND SMALLER	30 INCHES
#6 BAR	36 INCHES
#7 BAR	42 INCHES

9. PROVIDE POSITIONERS TO HOLD VERTICAL WALL REINFORCING STEEL IN PROPER ALIGNMENT.
10. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60.
11. MASONRY WALLS OF HOLLOW UNITS WHICH CHANGE THICKNESS SHALL HAVE A CONTINUOUS SOLID OR GROUT FILLED COURSE BELOW THE TRANSITION. IF WALL THICKNESS IS GREATER ABOVE THE TRANSITION, THE COURSE ABOVE THE TRANSITION SHALL ALSO BE GROUTED SOLID.
12. FILL CMU CELLS WITH GROUT FROM TOP OF FOOTING TO TOP OF SLAB-ON-GRADE ELEVATION.
13. BEAR ALL JOISTS, TRUSSES, AND BEAMS ON SOLID MASONRY OR GROUT FILLED CMU. LENGTH OF BEARING SHALL BE 8", UNLESS OTHERWISE INDICATED.
14. MASONRY WALL CONTROL JOINTS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR JOINT LOCATIONS AND DETAILS. COORDINATE JOINT LOCATIONS TO AVOID BEAM BEARING LOCATIONS.

COLD FORMED STEEL FRAMING

1. ALL STRUCTURAL COLD FORMED STEEL FRAMING (CFSF) SHALL COMPLY WITH AISI'S "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 2007 EDITION INCLUDING 2010 SUPPLEMENT.
2. CFSF-S (STRUCTURAL): INCLUDES ALL EXTERIOR WALLS, SOFFITS, BULKHEADS, TRUSSES, RAFTERS, JOISTS AND CEILING JOISTS (IF SELF-SUPPORTING). PROVIDE ERECTION DRAWINGS AND DETAIL DRAWINGS. PROVIDE ENGINEERING DESIGN OF ALL PRE-FABRICATED CFSF-S TRUSSES AND PANELIZED WALL ASSEMBLIES, AND SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN NORTH CAROLINA FOR THOSE SYSTEMS. REFER TO SECTION 054000 FOR ADDITIONAL INFORMATION.
3. CFSF-NS (NON-STRUCTURAL): INCLUDES INTERIOR NON-LOAD BEARING STUD WALLS AND SUSPENDED CEILING FRAMING SYSTEM. REFER TO SECTION 092216 FOR ADDITIONAL INFORMATION.
4. ALL FRAMING MEMBERS, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL SHEET HAVING A GALVANIZED COATING IN ACCORDANCE WITH ASTM A653.
5. ALL C - SHAPED FRAMING MEMBERS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1 5/8 INCHES.
6. MINIMUM YIELD STRENGTH SHALL BE AS FOLLOWS:

FY = 33,000 PSI	18 GAUGE AND 20 GAUGE
FY = 50,000 PSI	16 GAUGE, 14 GAUGE AND 12 GAUGE

POST INSTALLED ANCHORS & DOWELS

1. INSTALL ALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED PROCEDURES AT NOT LESS THAN THE MINIMUM EDGE DISTANCES INDICATED IN THE MANUFACTURER'S LITERATURE. SUBMIT MANUFACTURER'S PRODUCT DATA FOR REVIEW BY THE ARCHITECT.
2. ALL ANCHORS (INCLUDING THREADED RODS, NUTS, WASHERS) SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, FOR SERVICE CONDITION SC-1.
3. SCREW ANCHORS SHALL BE ONE OF THE FOLLOWING:

   SCREW-BOLT +, BY DEWALT
   TITEN HD, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
   KWIK HUS-EZ, BY HILTI

   HOLE DIAMETER THROUGH STEEL MEMBER SHALL BE 1/8 INCH LARGER THAN NOMINAL DIAMETER OF ANCH

STATEMENT "Schedule" OF SPECIAL INSPECTIONS
2018 NCBC SECTION 1704.3

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Special Inspector
1704.2.4 Report Requirement								
Rep.	1	Special inspector to keep record of special inspections and furnish reports to the building official and to the Registered design professional in responsible charge	●	-	Y		1704.2.4	SI, MT
1704.2.5 Inspection of Fabricated Items								
Rep.	1	Work done in fabricator shop requires inspector unless the fabricator is registered and approved according to IBC 1704.2.5.1. Where fabricator is approved, provide fabricator certification document.	-	●	Y		1704.2.5 Document Required	SI
Rep.	2	At completion of fabrication, submit certificate of compliance to building official stating the work was performed in accordance with the approved construction documents.	-	●	Y		1704.2.5 Document Required	SI
1704.3 Statement of Special Inspections								
Rep.		A registered design professional in responsible charge shall prepare a statement of special inspections	-	●	Y		1704.3 (This Document)	SEOR
1704.4 Contractor Responsibility								
Rep.		Each contractor responsible for the construction of a main wind- or seismic force resisting system, designated seismic system or a wind- or seismic-resisting component listed in the statement of special inspections shall submit a written statement of responsibility.	-	●	Y		1704.4 Page 4 Document Required	GC
1704.5 Submittals to the Building Official								
Rep.		In addition to the submittal reports of special inspections and tests in accordance with Section 1704.2.4, reports and certificates shall be submitted by the owner or owner's authorized agent to the building official for each of the following:	●	-	Y		1704.5	GC
Rep.	1	Certificates of compliance for the fabrication of structural, load-bearing or lateral load-resisting members or assemblies on the premises of a registered and approval fabricator in accordance with Section 1704.2.5.1	●	-	Y	Section 1704.2.5.1 (Fabricator)	1704.5	GC
Rep.	2	Certificates of compliance for the seismic qualification of nonstructural components, supports and attachments in accordance with Section 1705.13.2	●	-	N	Section 1705.13.2	1704.5	GC

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
	2b	Reinforcing Steel		-			1705.3	
Stl	2b (1)	Verification of weldability of reinforcing steel other than ASTM A 706		-	Y	AWDS D1.4 ACI 318-14	1705.3	
Stl	2b (2)	Reinforcing steel-resisting flexural and axial forces	●	-	Y		1705.3	
Stl	2b (3)	Shear reinforcement	●	-	Y		1705.3	
Stl	2b (4)	Other reinforcing steel	-	●	Y	Section 20.2.2.5 of ACI 318 ASTM A 615	1705.3	
1705.2.3 Inspection of Open-Web Steel Joists and Joist Girders								
Stl	1	Installation of open-web steel joist and joist girders				SJI specification listed in Section 2207.1	Table 1705.2.3	SI
Stl	1a	End connections – welding or bolted	-	●	Y		Table 1705.2.3	SI
Stl	1b	Bridging – horizontal or diagonal				SJI specification listed in Section 2207.1	Table 1705.2.3	SI
Stl	1b (1)	Standard bridging	-	●	Y		Table 1705.2.3	SI
Stl	1b (2)	Bridging that differs from the SJI specifications listed in Section 2207.1	-	●	Y		Table 1705.2.3	SI
1705.3 Concrete Construction								
Conc	1	Inspection of reinforcing steel including pre stressing tendons, and placement	-	●	Y	ACI 318 Ch. 20, 25.2, 25.3, 26.5-26.5.3, 35 AND IBC 1095	1705.3	SI
Conc	2	Reinforcing bar welding					Table 1705.3	SI
Conc	2a	Verify weldability of reinforcing bars other than ASTM A 706	-	●	Y	IBC 1905 AWS D1.4 ACI 318: 26.5.4	Table 1705.3	SI
Conc	2b	Inspect single-pass welds, maximum 5/16"	-	●	Y		Table 1705.3	SI
Conc	2c	Inspect all other welds	-	●	Y		Table 1705.3	SI
Conc	3	Inspection of anchors cast in concrete	-	●	Y	IBC 1905 ACI 318: 17.8.2	Table 1705.3	SI
Conc	4	Inspection of anchors post-installed in hardened concrete members						SI
Conc	4a	Adhesive anchors installed in any orientation	●	-	Y	ACI 318: 17.8.2.4	Table 1705.3	SI
Conc	4b	Mechanical anchors and adhesive anchors not defined in 4a	-	●	Y	ACI 318: 17.8.2	Table 1705.3	SI
Conc	5	Verifying use of required design mix	-	●	Y	ACI 318: Ch.19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3; Table 1705.3	SI

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Conc	6	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	●	-	Y	ASTM C172 ASTM C31 ACI 318: 26.4.5, 26.12	1908.10 & Table 1705.3	MT
Conc	7	Inspection of concrete and shotcrete placement for proper application techniques	●	-	Y	ACI 318: 26.4.5,	1908.6, 1908.7, 1908.8, Table 1705.3	SI
Conc	8	Verify maintenance of specified curing temperature and techniques	-	●	Y	ACI 318: 26.4.7 - 26.4.9	1908.9 & Table 1705.3	SI
Conc	9	Inspection of pre-stressed concrete					Table 1705.3	
Conc	9a	Application of pre-stressing forces	●	-	N	ACI 318: 26.9.2.1 ACI 318: 26.9.2.3	Table 1705.3	
Conc	9b	Grouting of bonded pre-stressing tendon	●	-	N		Table 1705.3	
Conc	10	Inspect erection of precast concrete members	-	●	N	ACI 318: 26.8	Table 1705.3	
Conc	11	Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs	-	●	N	ACI 318: 26.10.2	Table 1705.3	
Conc	12	Inspect formwork for shape, location and dimensions of the concrete member being formed	-	●	Y	ACI 318: 26.10.1 (b)	Table 1705.3	SI
1705.4 Masonry Construction								
Mas		Masonry construction shall be inspected and verified per standards	-	●	Y	TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ACE 6	1705.4	SI, MT
Mas	1	Empirically design masonry, glass unit masonry and masonry veneer in Risk Category IV	●	-	N	Section 2109, 2110 or Chapter 14, Section 1604.5, shall comply with TMS 402/ACI 530/ ASCE 5 Level B Quality Assurance	1705.4.1	
Mas	2	Vertical masonry foundation elements	-	●	Y	IBC Section 1705.4	1705.4.2	SI

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Seis	5	Architectural Components in D, E, or F	-	●	N		1705.12.5	
Seis	5,1	Access Floors in D, E, or F	-	●	N		D,E,F 1705.12.5.1	
Seis	6	Plumbing, Mechanical and Electrical Components					1705.12.6	
Seis	6a	Anchorage of electrical equipment for emergency or standby power systems, in C, D, E or F	-	●	Y		1705.12.6	SI
Seis	6b	Anchorage of other electrical equipment in E or F	-	●	N		1705.12.6	
Seis	6c	Installation and anchoring of piping systems designed to carry hazardous materials and associated mechanical units in C, D, E or F	-	●	N		1705.12.6	
Seis	6d	Installation of HVAC ductwork that will carry hazardous materials in C, D, E or F	-	●	N		1705.12.6	
Seis	6e	Installation of vibration isolation systems with clearance less than 0.25 inches between equipment support frame and restraint where indicated on construction documents in C, D, E or F	-	●	N		1705.12.6	
Seis	7	Storage Rack during anchoring storage racks 8 feet or greater in height in D, E or F	-	●	N		1705.12.7	
Seis	8	Seismic Isolation System	-	●	N		1705.12.8	
Seis	9	Cold-formed steel special bolted moment frames in the seismic force- resisting systems of structures assigned to seismic Design Category D, E or F	-	●	N		1705.12.9	
1705.13 Testing for Seismic Resistance								
Test	1	Structural Steel	●	-	Y	Section 1705.13.1.1 Section 1705.13.1.2	1705.13.1	SI
Test	2	Seismic force-resisting systems	●	-	Y	AISC 341	1705.13.1.1	SI
Test	3	Structural steel elements	●	-	Y	AISC 341	1705.13.1.2	SI
Test	4	Seismic certification of nonstructural components and designated seismic systems	●	-	Y	Per the registered design professionals requirements on the construction documents. Sec. 13.2 of ASCE 7	1705.13.2 & 1705.13.3	SI
Test	5	Seismically isolated structures	●	-	N	Sec. 17.8 of ASCE 7	1705.13.4	
1705.14 Sprayed Fire Resistant Materials								
FRM	1	Physical and visual tests: 1.Condition of substrates 2.Thickness of application 3.Density in pounds per cubic foot 4.Bond strength adhesion/cohesion 5.Condition of finished application	●	-	N		1705.14.1	
FRM	2	Structural member surface conditions in conformance with approved fire- resistance design and manufacturers instructions	●	-	N		1705.14.2	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
1705.15 Mastic and Intumescent Fire Resisitant Coatings								
FRC	1	Verification and inspection of fire- resistance design designated in construction documents	-	●	N	AWCI 12-B	1705.15	
1705.16 Exterior Insulation and Finish Systems (EIFS)								
FRC	1	Field application (Special inspection not required where EIFS is installed over water resistant barrier with drainage system or over masonry or concrete)	●	-	N		1705.16	
FRC	2	Water-Resistive Barrier Coating	●	-	N	ASTM E2570	1705.16	SI
1705.17 Fire-Resistant Penetrations and Joint								
Frpj	1	Verification in high-rise buildings or buildings assigned to Risk Category III or IV					1705.17	
Frpj	2	Penetration Firestops	●	-	Y	ASTM E2174	1705.17.1	SI
Frpj	3	Fire-Resistant Joint System	●	-	Y	ASTM E2393	1705.17.2	SI
1705.18 Smoke Control								
Smoke	1	Smoke Control Inspection prior to concealment	●	-	N		1705.18.1(1)	
Smoke	2	Smoke Control Testing prior to occupancy	-	●	N		1705.18.1(2)	
Smoke	3	Qualifications of Inspector	-	-	N		1705.18.2	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Masonry (Level B)								
Mas		Verification of Slump flow and Visual Stability Index (VSI) as delivered to project site	-	●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Article 1.5.B.1.b.3*		SI
Mas		Verification of f'm and f'acc prior to construction and for every 5,000 ft² during construction	-	●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Article 1.4 B*		SI
Mas	1	Verify compliance with approved submittals		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Article 1.5*		SI
Mas	2a	As masonry construction begins, verify: Proportions of site-prepared mortar		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Articles 2.1, 2.6 A*		SI
Mas	2b	Construction of mortar joints		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Article 3.3 B*		SI
Mas	2c	Grade and size of prestressing tendons and anchorages		●	N	*TMS 602/ACI 530.1/ASCE 6 Spec Articles 2.4B, 2.4 H*		
Mas	2d	Location of reinforcement, connectors, and prestressing tendons and anchorages		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Articles 3.4, 3.6 A*		SI
Mas	2e	Prestressing technique		●	N	*TMS 602/ACI 530.1/ASCE 6 Spec Article 3.6 B*		
Mas	2f	Properties of thin-bed mortar for AAC	●		N	*TMS 602/ACI 530.1/ASCE 6 Spec Article 2.1 C*		
Mas	3a	Prior to grouting, verify: Grout space		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Articles 3.2 D, 3.2F*		SI
Mas	3b	Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		●	Y	*TMS 402/ACI 530/ASCE 4 Spec Section 1.16 TMS 602/ACI 530.1/ASCE 6 Spec Articles 2.4, 3.4*		SI
Mas	3c	Placement of reinforcement, connectors, and prestressing tendons and anchorages		●	Y	*TMS 402/ACI 530/ASCE 4 Spec Section 1.16 TMS 602/ACI 530.1/ASCE 6 Spec Articles 3.2 E, 3.4, 3.6 A*		SI
Mas	3d	Proportions of site-prepared grout and prestressing grout for bonded tendons		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Articles 2.6 B, 2.4 G.1.b*		SI
Mas	3e	Construction of mortar joints		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Article 3.3 B*		SI
Mas	4a	Verify during construction: Size and location of structural elements		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Article 3.3 F*		SI

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Rep.	3	Certificates of compliance for designated seismic systems in accordance with Section 1705.13.3	●	-	Y	Section 1705.13.3 & 1704.3.2	1704.5 & 1704.3.2	GC
Rep.	4	Reports of preconstruction tests for shotcrete in accordance with Section 1908.5	●	-	N	Section 1908.5	1704.5	GC
Rep.	5	Certificates of compliance for open web steel joist and joist girders in accordance with Section 2207.5	●	-	Y	Section 2207.5	1704.5	GC
Rep.	6	Reports of material properties verifying compliance with the requirements of AWS D1.4 for weldability as specified in Section 26.6.4. of ACI 318 for reinforcing bar in concrete complying with a standard other than ASTM A 706 that are to welded	●	-	Y	Section 2207.5	1704.5	GC
Rep.	7	Reports of mill tests in accordance with Section 20.2.2.5 of ACI 318 for reinforcing bars complying with ASTM A 615 and used to resist earthquake-induced flexural or axial forces in the special moment frames, special structural walls or coupling beams connecting special structural walls of seismic force-resisting systems in structures assigned to Seismic Design Category B, C, D, E, or F	●	-	Y	Section 20.2.2.5 of ACI 318 ASTM A 615	1704.5	GC
1704.6 Structural Observation								
Rep.		The owner shall employ a registered design professional to perform structural observation. Prior to commencement of observation, the structural observer shall submit to the building official a written statement identifying frequency and extent of structural observations.	-	●	N	Seismic Design Category D, E or F only	1704.6	
1704.5.2.1 Steel Construction Inspection								
Stl	1	Structural Steel shall be in accordance with the quality assurance inspection requirements of AISC 360	-		Y		1705.2.1	SI
1705 Steel Construction other than Structural Steel Inspection								
Stl	1	Material verification of high-strength bolts, nuts and washers				ASTM Standards	1705.2	SI
Stl	1a	Identification markings to conform to ASTM standards specified in the approved construction documents	-	●	Y	AISC 360, Section A3.3 and applicable ASTM material standards	1705.2	SI
Stl	1b	Manufacturer's certificate test reports	-	●	Y		1705.2	SI
Stl	2	Inspection of welding						SI
Stl	2a	Cold-formed steel deck						SI
Stl	2a (1)	Floor and roof deck welds	-	●	Y	AWS D1.3	1705.2.2	SI

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
1705.5 Wood Construction								
Wd	1	High-Load Diaphragms	-	●	N	IBC Sec. 2306.2, Sec 1704.2, approved construction drawings	1705.5.1	
Wd	2	Metal-plate-connected wood trusses spanning 60 feet or greater	-	●	N	Approved truss submittal package (bracing)	1705.5.2	
1705.6 Soils								
Soil	1	Verify materials below shallow foundations are adequate to achieve the design bearing capacity	-	●	Y		Table 1705.6	SI
Soil	2	Verify excavations are extended to proper depth and have reached proper material	-	●	Y		Table 1705.6	SI
Soil	3	Perform classification and testing of compacted fill materials	-	●	Y		Table 1705.6	SI, MT
Soil	4	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	●	-	Y		Table 1705.6	SI
Soil	5	Prior to placement of compacted fill, observe sub-grade and verify that site has been prepared properly	-	●	Y		Table 1705.6	SI
1705.7 Driven Deep Foundations								
Drv	1	Verify element materials, sizes and lengths comply with the requirements	●	-	N		Table 1705.7	
Drv	2	Determine capacities of test elements and conduct additional load tests, as required	●	-	N		Table 1705.7	
Drv	3	Inspect driving operations and maintain complete and accurate records for each element	●	-	N		Table 1705.7	
Drv	4	Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element	●	-	N		Table 1705.7	
Drv	5	For steel elements, perform additional inspections in accordance with Section 1705.2	-	-	N		Sec 1705.7& Table 1705.7	
Drv	6	For concrete elements and concrete filled elements, perform additional inspections in accordance with Section 1705.3	-	-	N		Sec 1705.7& Table 1705.7	
Drv	7	For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	-	-	N		Table 1705.7	
1705.8 Cast-In-Place Deep Foundations								
CIP	1	Inspect drilling operations and maintain complete and accurate records for each element	●	-	N		Table 1705.8	
CIP	2	Verify placement locations and plumbness; confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes	●	-	N		Table 1705.8	
CIP	3	For concrete elements, perform additional inspections in accordance with Section 1705.3	-	-	N		Sec 1705.3 & Table 1705.8	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
FRM	3	Application per manufacturers instructions	●	-	N		1705.14.3	
FRM	4	Thickness	●	-	N	ASTM E605	1705.14.4	
FRM	4a	Minimum allowable thickness	●	-	N	ASTM E605	1705.14.4.1	
FRM	4b	Floor, roof and wall assemblies. Not less than four measurements for each 1,000 sq. ft. of the sprayed area in each story or portion thereof	-	●	N	ASTM E605	1705.14.4.2	
FRM	4c	Cellular decks. Thickness measurements shall be selected from a square area, 12 inches x 12 inches in size. A minimum of four measurements shall be made, located symmetrically within the square area.	-	●	N	ASTM E605	1705.14.4.3	
FRM	4d	Fluted decks. Thickness measurements shall be selected from a square area, 12 inches x 12 inches in size. A minimum of four measurements shall be made, located symmetrically within the square area, including one of each of the following: valley, crest and sides	-	●	N	ASTM E605	1705.14.4.4	
FRM	4e	Structural members. Thickness testing shall be performed on not less than 25 percent of the structural members on each floor.	-	●	N	ASTM E605	1705.14.4.5	
FRM	4f	Beams and girders. Thickness measurements shall be made at nine locations around the beam or girder at each end of a 12-inch length	-	●	N	ASTM E605	1705.14.4.6	
FRM	4g	Joists and trusses. Thickness measurements shall be made at seven locations around the joist or truss at each end of a 12-inch length	-	●	N	ASTM E605	1705.14.4.7	
FRM	4h	Wide-flanged columns. Thickness measurements shall be made at twelve locations around the column at each end of a 12-inch length	-	●	N	ASTM E605	1705.14.4.8	
FRM	4i	Hollow structural section and pipe columns. Thickness measurements shall be made at minimum of four locations around the column at each end of a 12-inch length	-	●	N	ASTM E605	1705.14.4.9	
FRM	5	Density	-	●	N	ASTM E605	1705.14.5	
FRM	5a	From each floor, roof and wall assembly at the rate of not less than one sample for every 2,500 square feet or portion thereof of the sprayed area in each story.	-	●	N	ASTM E605	1705.14.5	
FRM	5b	From beams, girders, trusses and columns at the rate of not less than one sample for each type of structural member for each 2,500 square feet of floor area or portion thereof in each story	-	●	N	ASTM E605	1705.14.5	
FRM	6	Bond strength (cohesive/adhesive)	-	●	N	ASTM E736	1705.14.6	
FRM	6a	Floor, roof and wall assemblies. Not less than one sample from each floor, roof and wall assembly for each 2,500 square feet of the sprayed area in each story or portion thereof	-	●	N	ASTM E736	1705.14.6.1	
FRM	6b	Structural members. Not less than one sample from each beam, girders, trusses, columns and other structural members for each type of structural member for each 2,500 square feet of the floor area in each story or portion thereof.	-	●	N	ASTM E736	1705.14.6.2	
FRM	6c	Primer, paint and encapsulate bond tests	-	●	N	ASTM E736	1705.14.6.3	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Mas	4b	Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction		●	Y	*TMS 402/ACI 530/ASCE 4 Spec Sections 1.16.4.3, 1.17.1*		SI
Mas	4c	Welding of reinforcement	●		Y	*TMS 402/ACI 530/ASCE 4 Spec Sections 1.16.4.3, 1.17.1*		SI
Mas	4d	Preparation, construction, and protection of masonry during cold weather (temp below 40OF) or hot weather (temp above 90OF)		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Articles 1.8 C, 1.8 D*		SI
Mas	4e	Application and measurement of prestressing force	●		N	*TMS 602/ACI 530.1/ASCE 6 Spec Article 3.6 B*		SI
Mas	4f	Placement of grout and prestressing grout for bonded tendons is in compliance	●		N	*TMS 602/ACI 530.1/ASCE 6 Spec Articles 3.5, 3.6 C*		SI
Mas	4g	Placement of AAC masonry units and construction of thin-bed mortar joints	●		N	*TMS 602/ACI 530.1/ASCE 6 Spec Article 3.3 B.8*		SI
Mas	5	Observe preparations of grout specimens, mortar specimens, and/or prisms		●	Y	*TMS 602/ACI 530.1/ASCE 6 Spec Articles 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4*		SI

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DIVISION OF JUVENILE JUSTICE
NEW HANOVER COUNTY
WILMINGTON, NC

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SPECIAL INSPECTION REPORTS

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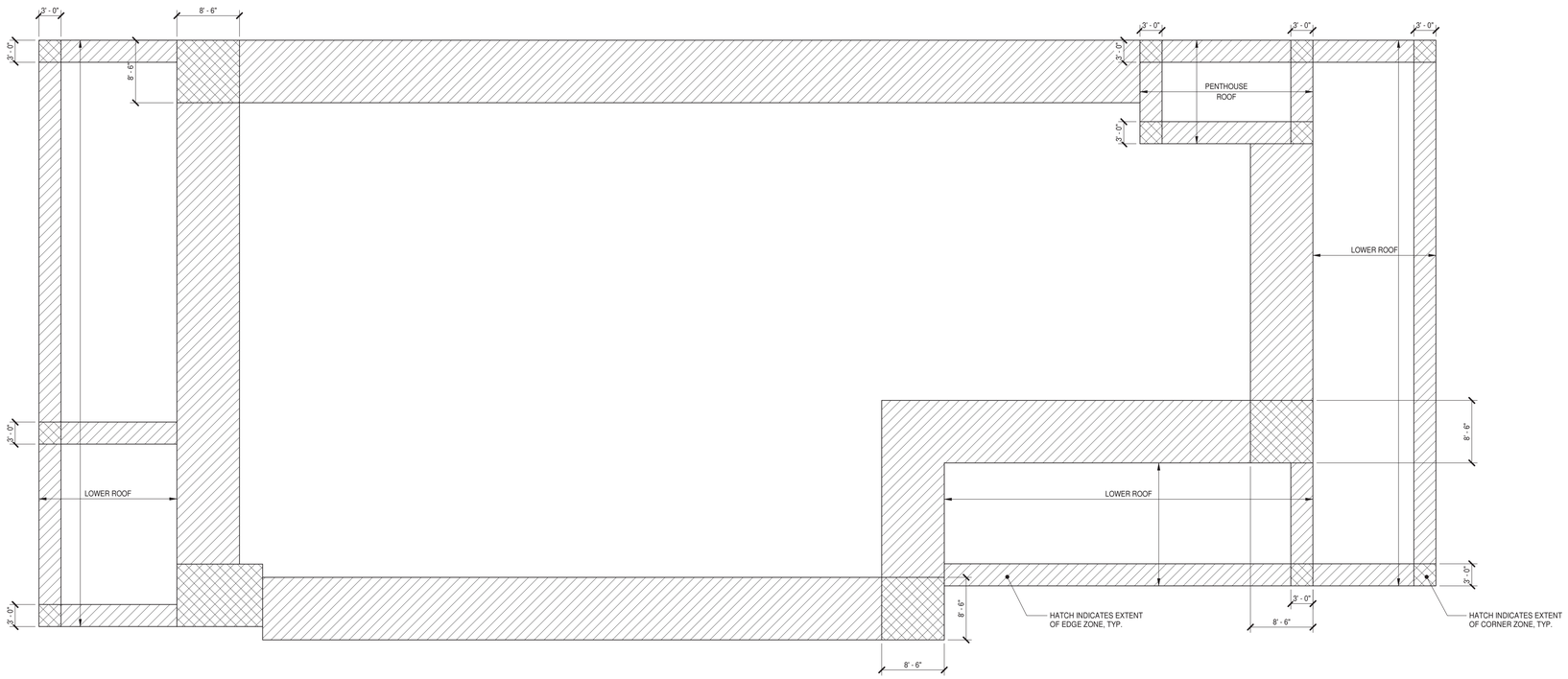

WIND PRESSURE DIAGRAM

1/8" = 1'-0"

WIND PRESSURES USED IN THE DESIGN OF COMPONENTS AND CLADDING						
CLADDING TYPE	ZONE	ELEVATION	EXTERNAL PRESSURE, PSF AT TRIBUTARY AREAS INDICATED, SQ FT			
			10	20	50	100
ROOF	CORNER	PENTHOUSE	+22.4/-139.1	+20.5/-107.5	+19.1/-83.6	+17.7/-59.8
ROOF	EDGE	PENTHOUSE	+22.4/-92.4	+20.5/-79.4	+19.1/-69.6	+17.7/-59.8
ROOF	INTERIOR	PENTHOUSE	+22.4/-55.1	+20.5/-53.2	+19.1/-51.8	+17.7/-50.4
ROOF	CORNER	MAIN ROOF	+21.3/-132.0	+19.5/-102.0	+18.2/-79.3	+16.8/-56.7
ROOF	EDGE	MAIN ROOF	+21.3/-87.7	+19.5/-75.3	+18.2/-66.0	+16.8/-56.7
ROOF	INTERIOR	MAIN ROOF	+21.3/-52.3	+19.5/-50.5	+18.2/-49.2	+16.8/-47.8
ROOF	CORNER	LOWER ROOF	+18.9/-117.2	+17.3/-90.6	+16.1/-70.5	+16.0/-50.3
ROOF	EDGE	LOWER ROOF	+18.9/-77.9	+17.3/-66.9	+16.1/-58.6	+16.0/-50.3
ROOF	INTERIOR	LOWER ROOF	+18.9/-46.4	+17.3/-44.8	+16.1/-43.7	+16.0/-42.5

NOTES:

1. DESIGN PRESSURES FOR COMPONENTS AND CLADDING SHALL NOT BE LESS THAN 16 PSF ACTING IN EITHER DIRECTION NORMAL TO THE SURFACE.
2. NEGATIVE PRESSURES ACT UPWARD / OUTWARD AND POSITIVE PRESSURES ACT DOWNWARD / INWARD.
3. A DEAD LOAD OF 10 PSF SHALL BE USED TO DETERMINE THE NET UPLIFT PRESSURES.
4. PRESSURES ARE GROSS, UNFACTORED PRESSURES BASED ON AN EFFECTIVE WIND, PER ASCE 7.
5. ROOF IS INTERIOR ZONE UNLESS INDICATED OTHERWISE.

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WIND LOAD DIAGRAM

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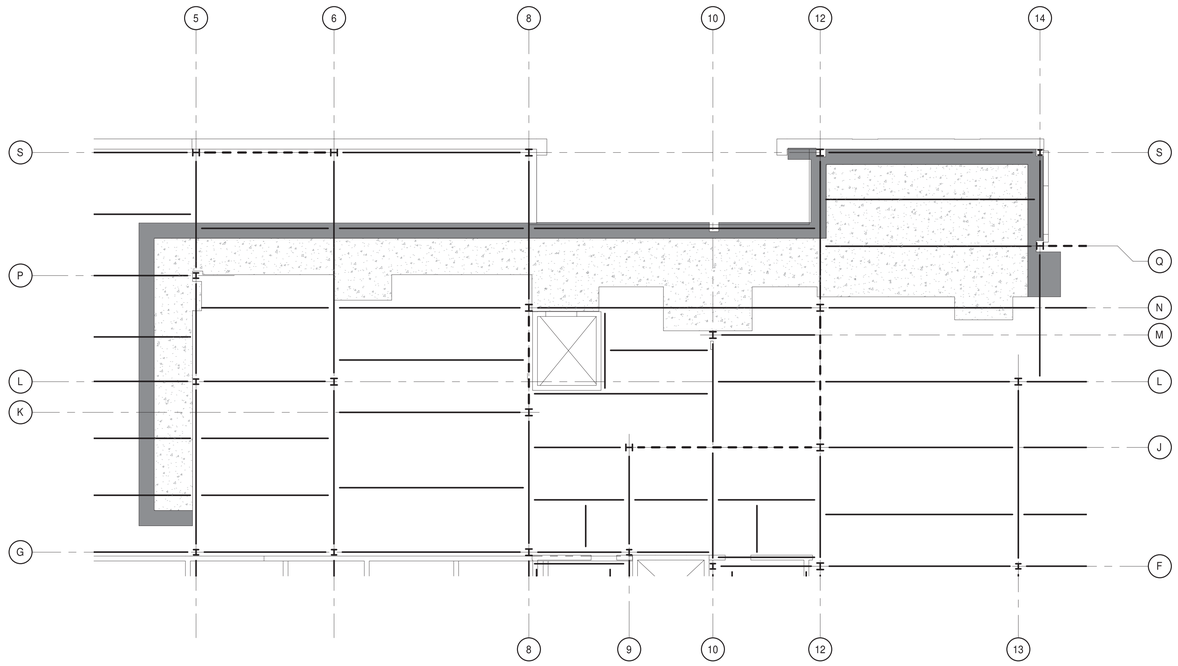

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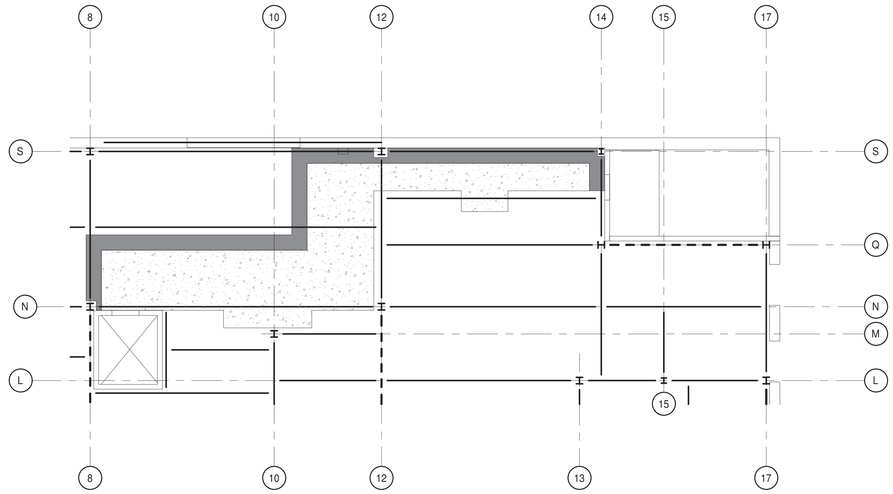
SECOND FLOOR TERRAZZO SLAB REINFORCING PLAN

1/8" = 1'-0"

FLOOR FRAMING PLAN NOTES:

1. REFER TO FLOOR FINISH PLAN FOR TERRAZZO LOCATIONS.
2. FLOOR CONSTRUCTION SHALL BE 3 1/2" NORMAL WEIGHT CONCRETE SLAB ON 2" COMPOSITE FLOOR DECK (DECK TYPE 2), (5 1/2" TOTAL SLAB THICKNESS). REINFORCE SLAB WITH 4x4-W2.9xW2.9 WWF AT MID-DEPTH FOR TERRAZZO FLOOR AREA.



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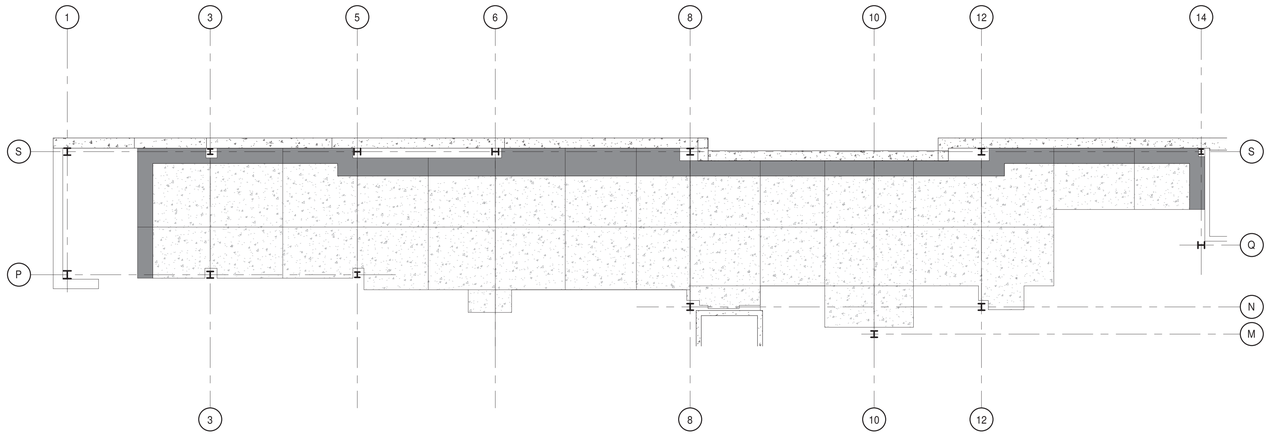
THIRD FLOOR TERRAZZO SLAB REINFORCING PLAN

1/8" = 1'-0"

FLOOR FRAMING PLAN NOTES:

1. REFER TO FLOOR FINISH PLAN FOR TERRAZZO LOCATIONS.
2. FLOOR CONSTRUCTION SHALL BE 3 1/2" NORMAL WEIGHT CONCRETE SLAB ON 2" COMPOSITE FLOOR DECK (DECK TYPE 2), (5 1/2" TOTAL SLAB THICKNESS). REINFORCE SLAB WITH 4x4-W2.9xW2.9 WWF AT MID-DEPTH FOR TERRAZZO FLOOR AREA.



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FIRST FLOOR TERRAZZO CONTROL JOINT PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. AT TERRAZZO FLOORING, COORDINATE LOCATION OF SLAB ON GRADE CONTROL JOINTS WITH FLOOR JOINTS INDICATED ON THE TERRAZZO PATTERN PLAN AND ARCHITECTURAL FINISH PATTERN DRAWINGS.

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TERRAZZO CONTROL JOINT PLANS

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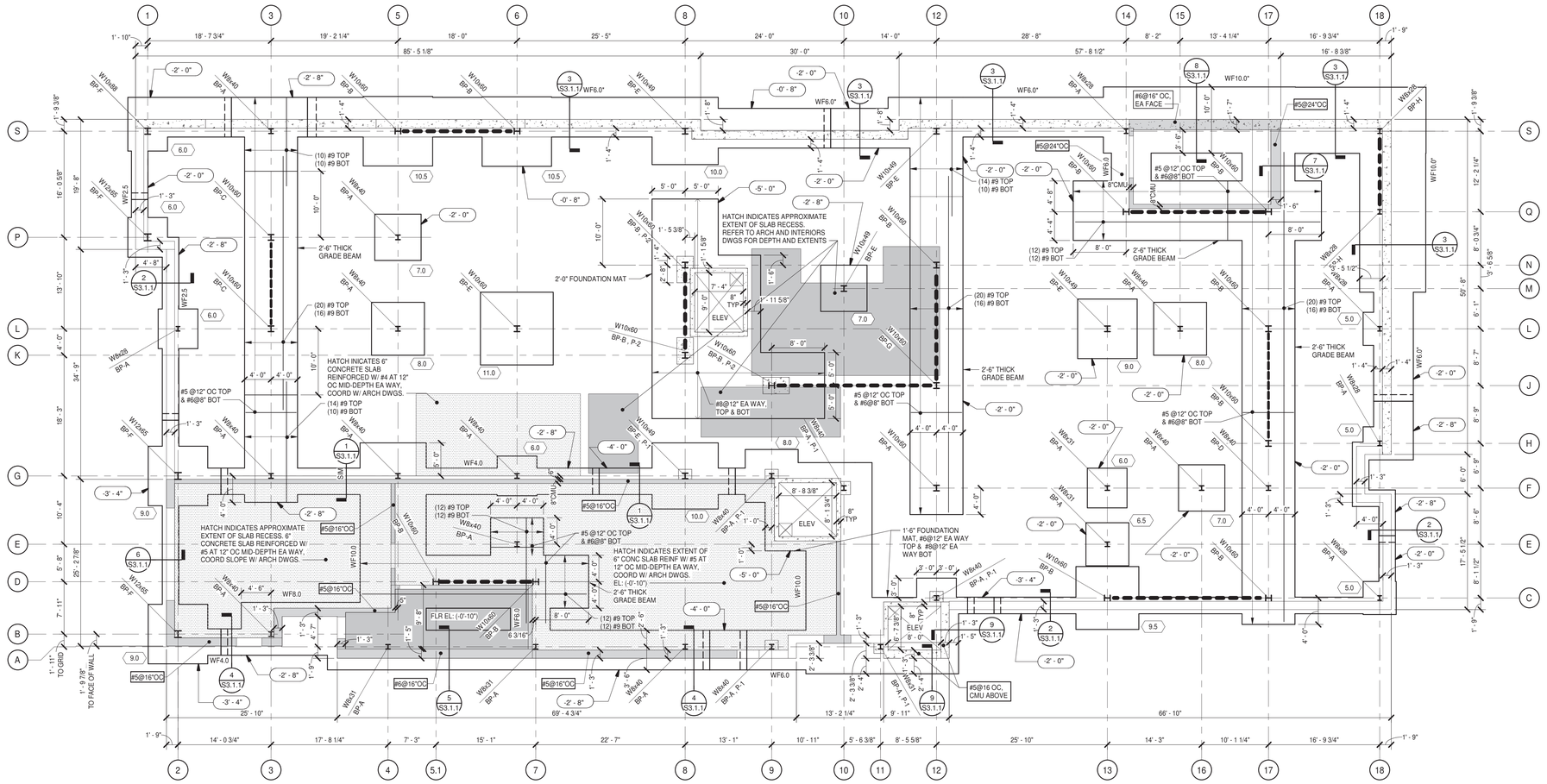

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FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FINISHED FIRST FLOOR ELEVATION = 41.25' = REFERENCE DATUM EL (+0'-0"). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCED FROM THIS ELEVATION, UNO.
2. FLOOR CONSTRUCTION SHALL BE 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH 4x4-W2.9xW2.9 WWF (1" FROM TOP) OVER VAPOR BARRIER OVER 4" POROUS FILL, UNO.
3. TOP OF ALL INTERIOR FOOTINGS SHALL BE (-1'-4"), UNO. TOP OF ALL EXTERIOR FOOTINGS SHALL BE (-2'-0"), UNO.
4. ALL EXTERIOR WALL FOOTINGS SHALL BE WF2.5, UNO.
5. COORDINATE FOOTING STEPS WITH ALL UNDERSLAB UTILITIES. REFER TO FOUNDATION NOTE #4 ON DRAWING S0.0.1.
6. REINFORCE MASONRY WALLS WITH #5 AT 32" OC, UNO.
7. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
8. REFER TO DRAWINGS S3.0.1 AND S3.0.2 FOR TYPICAL FOUNDATION DETAILS AND SCHEDULES.
9. AT TERRAZZO FLOORING, COORDINATE LOCATION OF SLAB ON GRADE CONTROL JOINTS WITH FLOOR JOINTS INDICATED ON THE ARCHITECTURAL FINISH PATTERN DRAWINGS.
10. EXCAVATION AROUND EXISTING BUILDING FOUNDATIONS IS NOT PERMITTED WITHOUT SHORING CAPABLE OF SUPPORTING THE EXISTING BUILDING FOUNDATIONS LOADS. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL SHORING. SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE SATE OF NORTH CAROLINA.
11. REFER TO PLUMBING DRAWINGS FOR FOUNDATION DRAIN LOCATIONS.
12. WALLS INDICATED AS SHADED ARE SHEAR WALLS AND SHALL BE REINFORCED WITH #5 AT 32" OC, UNO. NO REINFORCING STEEL IN THESE WALLS IS ALLOWED TO BE CUT. LOCATE ALL PIPING AND CONDUIT OUTSIDE OF REINFORCED CELLS, EXCEPT A SINGLE 1" CONDUIT IS ALLOWED AT JAMBS. CONTROL JOINTS ARE NOT PERMITTED IN SHEAR WALLS AT LESS THAN 20'-0" OC.

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DIVISION OF JUVENILE JUSTICE

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FOUNDATION PLANS

S1.1.1

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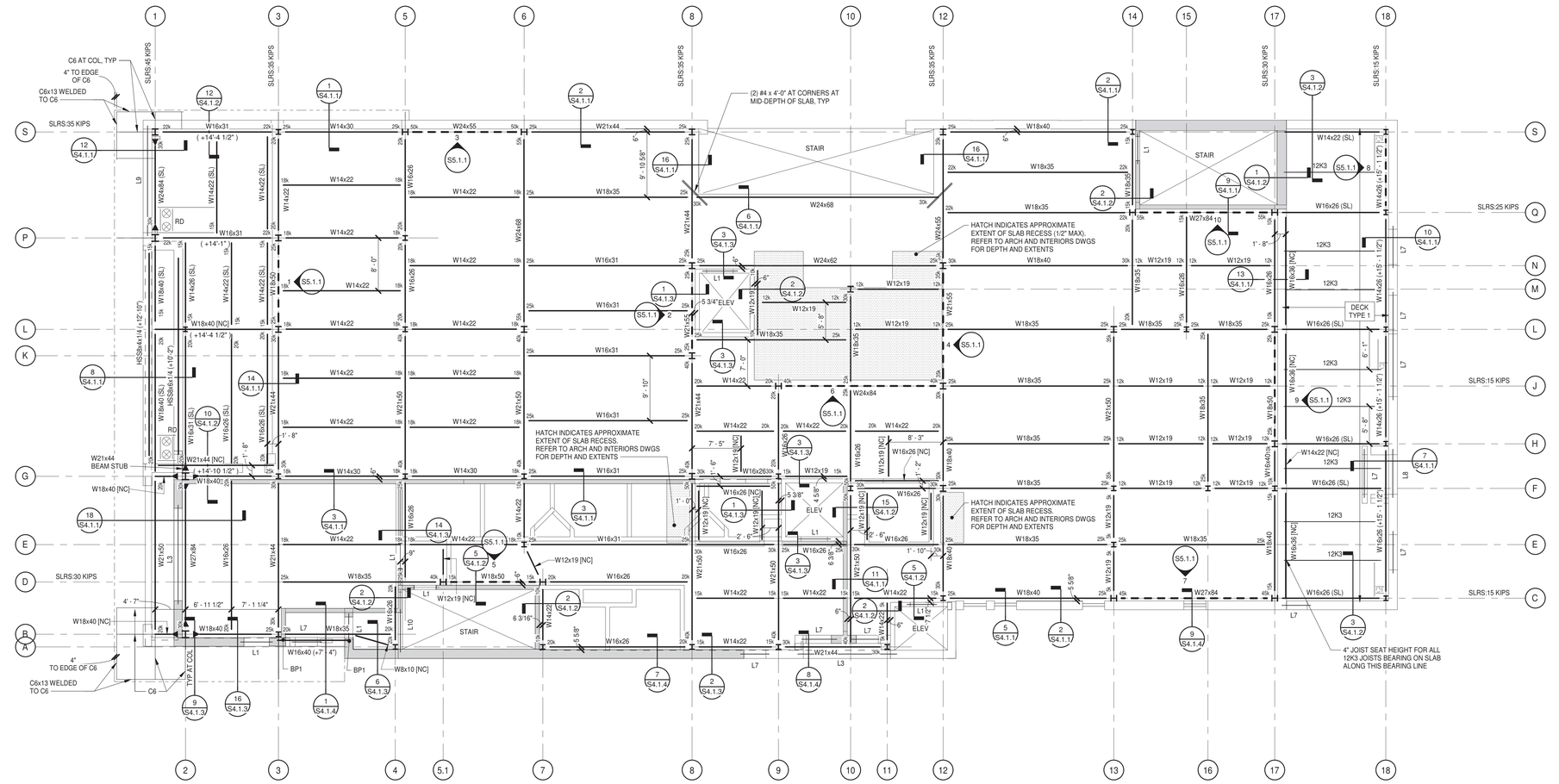


SECOND FLOOR FRAMING PLAN

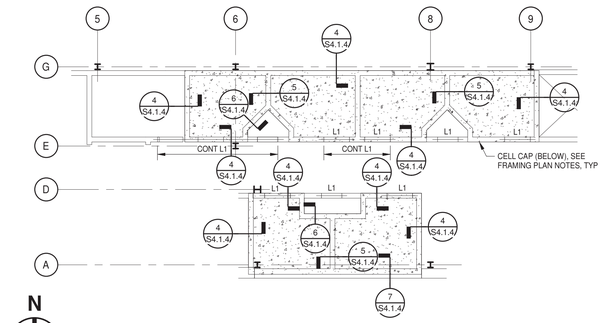
1/8" = 1'-0"

FLOOR FRAMING PLAN NOTES:

1. TOP OF SECOND FLOOR SLAB (+15'-4") RELATIVE TO FINISHED FIRST FLOOR.
2. TOP OF STEEL BEAMS SHALL BE (-5 1/2") RELATIVE TO FINISHED SECOND FLOOR, UNO.
3. TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
4. FLOOR CONSTRUCTION SHALL BE 3 1/2" LIGHTWEIGHT CONCRETE SLAB ON 2" COMPOSITE FLOOR DECK (DECK TYPE 2), (5 1/2" TOTAL SLAB THICKNESS). REINFORCE SLAB WITH 6x6-W2.9xW2.9 WWF AT MID-DEPTH. REINFORCE SLAB WITH 4x4-W2.9xW2.9 WWF AT MID-DEPTH FOR TERRAZZO FLOOR AREA, REFER TO DRAWING S0.0.4 FOR TERRAZO PATTERN AREA. REFER TO DRAWING S0.0.1 FOR STEEL DECK SCHEDULE.
5. ALL FLOOR BEAMS SHALL RECEIVE 3/4" DIAMETER x 4" LONG HEADED SHEAR STUDS, UNO. ALL BEAMS NOTED [NC] SHALL BE NON-COMPOSITE (SHEAR STUDS NOT REQUIRED).
6. COMPOSITE BEAMS ARE DESIGNED UNSHORED.
7. ALL BEAMS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES, UNO.
8. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
9. REFER TO DRAWINGS S4.0.1 AND S4.0.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.
10. GRIDS MARKED SLRS ARE PART OF THE LATERAL FORCE RESISTING SYSTEM. BEAM TO COLUMN CONNECTIONS AND BEAM TO BEAM CONNECTIONS ALONG THESE GRIDS SHALL BE DESIGNED FOR THE TENSION/COMPRESSION LOAD (INDICATED ON THE GRID) ACTING PARALLEL TO THE BEAMS, IN ADDITION TO ALL OTHER LOADS. BOLTED CONNECTIONS ON THESE GRID LINES SHALL BE DESIGNED AS SLIP CRITICAL. REFER TO S4.0.2 FOR COLLECTOR BEAM CONNECTIONS.
11. COORDINATE AREAS AND DEPTHS OF SLAB RECESS FOR TERRAZZO FLOORING WITH INTERIOR DESIGN DRAWINGS. MAXIMUM RECESS SHALL BE 1/2".

ROOF FRAMING PLAN NOTES:

1. TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
2. STEEL ROOF DECK SHALL BE 1 1/2" WIDE RIB ROOF DECK (DECK TYPE 1), UNO. REFER TO STEEL DECK SCHEDULE ON DRAWING S0.0.1 FOR DECK TYPES INDICATED ON PLAN. REFER TO FRAMING PLAN AND ARCHITECTURAL AND STRUCTURAL SECTIONS FOR EXTENT OF DECK TYPES.
3. ALL BEAMS AND JOISTS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES, UNO.
4. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
5. REFER TO DRAWINGS S4.0.1 AND S4.0.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.



FIRST FLOOR CELL CAP PLAN

1/8" = 1'-0"

CELL CAP FRAMING PLAN NOTES:

1. CELL CAP SLAB SHALL BE 8" THICK NORMAL WEIGHT CONCRETE REINFORCED WITH #4 AT 6" OC TOP AND BOT.
2. TOP OF CELL CAP SLAB (+9'-8") RELATIVE TO FINISHED FIRST FLOOR.

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SECOND FLOOR FRAMING PLANS

S2.1.1

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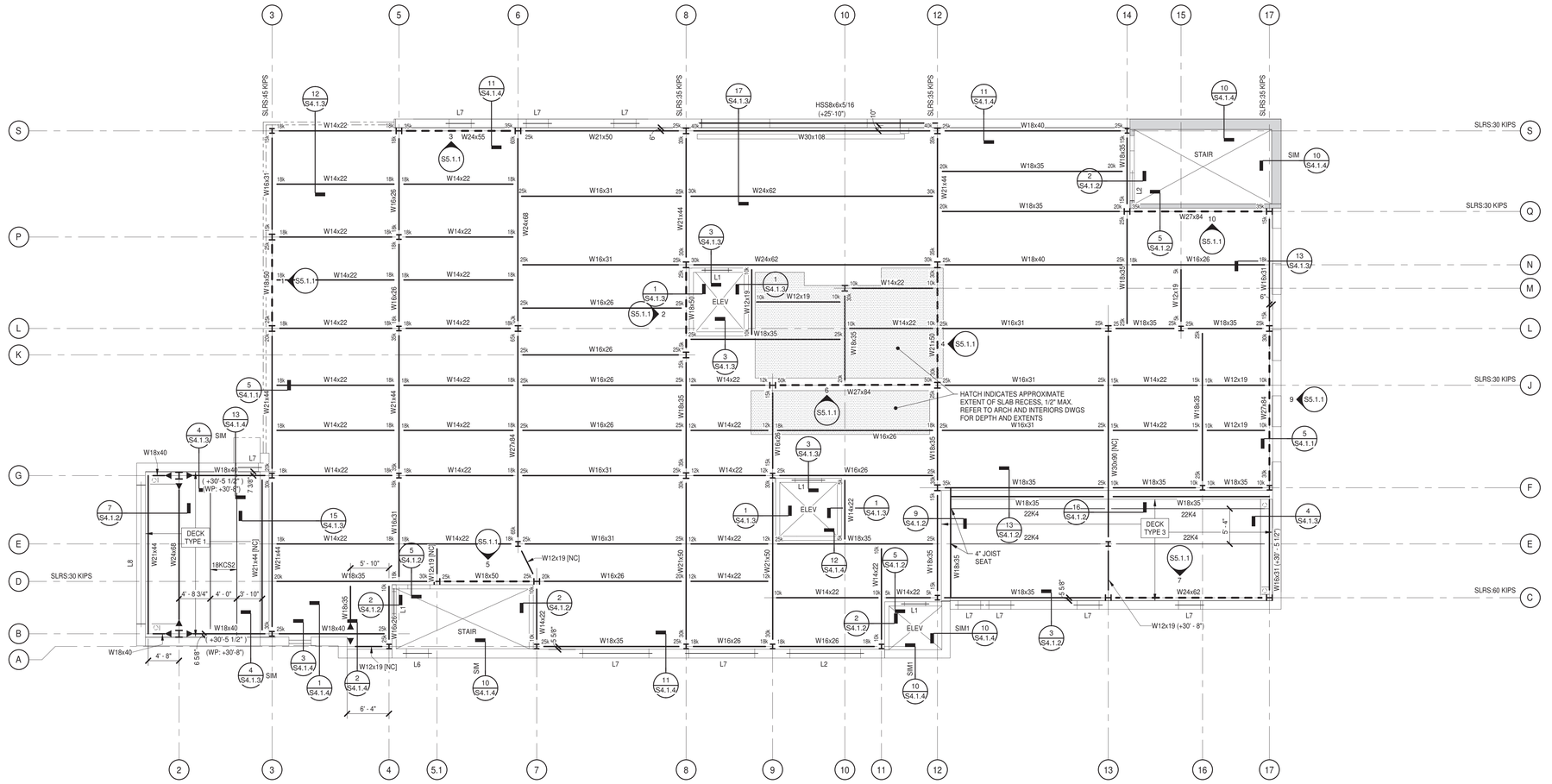
HATCH INDICATES APPROXIMATE EXTENT OF SLAB RECESS, 1/2" MAX. REFER TO ARCH AND INTERIORS DWGS FOR DEPTH AND EXTENTS
STAIR
ELEV
DECK TYPE 1
DECK TYPE 3
4" JOIST SEAT
SLRS:45 KIPS
SLRS:35 KIPS
SLRS:30 KIPS
SLRS:60 KIPS
HSS8x6x5/16 (+25'-10")
W30x108
W24x62
W27x84
W16x26
W18x35
W18x40
W16x31
W14x22
W12x19
W12x19 [NC]
W18x50
W16x50 [NC]
W24x55
W21x50
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W24x68
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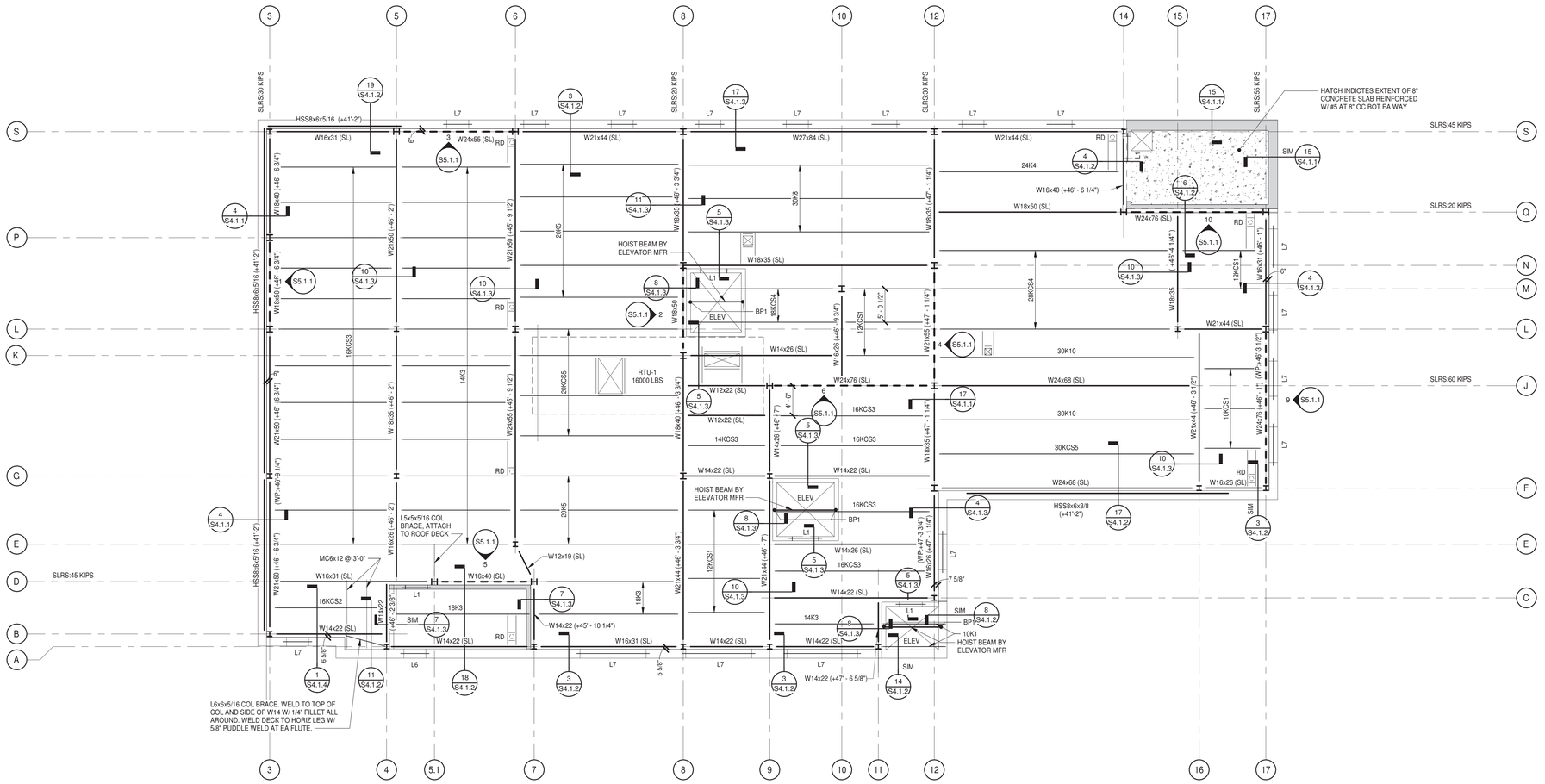

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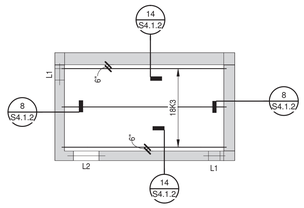
ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
2. STEEL ROOF DECK SHALL BE 1 1/2" WIDE RIB ROOF DECK (DECK TYPE 1), UNO. REFER TO STEEL DECK SCHEDULE ON DRAWING S0.0.1 FOR DECK TYPES INDICATED ON PLAN. REFER TO FRAMING PLAN AND ARCHITECTURAL AND STRUCTURAL SECTIONS FOR EXTENT OF DECK TYPES.
3. ALL BEAMS AND JOISTS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES, UNO.
4. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
5. REFER TO DRAWINGS S4.0.1 AND S4.0.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.
6. GRIDS MARKED SLRS ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM. BEAM TO COLUMN CONNECTIONS AND BEAM TO BEAM CONNECTIONS ALONG THESE GRIDS SHALL BE DESIGNED FOR THE TENSION/COMPRESSION LOAD (INDICATED ON THE GRID) ACTING PARALLEL TO THE BEAMS, IN ADDITION TO ALL OTHER LOADS. BOLTED CONNECTIONS ON THESE GRID LINES SHALL BE DESIGNED AS SLIP CRITICAL. REFER TO S4.0.2 FOR COLLECTOR BEAM CONNECTIONS.



N

HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

MOSELEY ARCHITECTS
11430 NORTH COMMUNITY HOUSE ROAD GIBSON BUILDING SUITE 225 CHARLOTTE, NC 28277
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MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035434 ENGINEER ROBERT D. COKER

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	05/22/2019

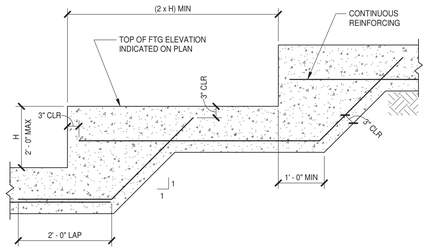
REVISIONS

DATE	DESCRIPTION

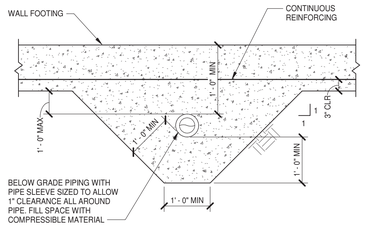
ROOF FRAMING PLANS

S2.3.1

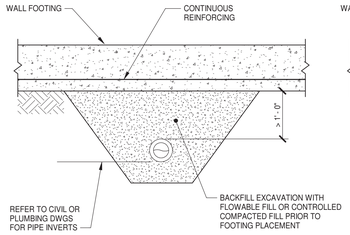
5/22/2019 12:09:21 PM



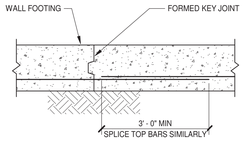
FOOTING STEP



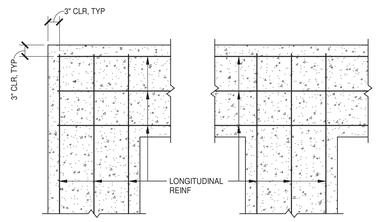
FOOTING SLEEVE



PIPE TRENCH BACKFILL AT FOOTING
(PIPE PLACED PRIOR TO FOOTING)

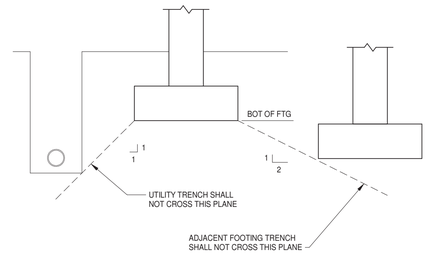


CONSTRUCTION JOINT



PLAN AT CORNER

PLAN AT INTERSECTION

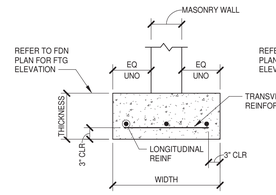


WALL FOOTING DETAILS
NO SCALE

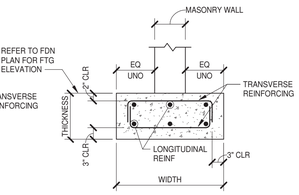
TRENCH LOCATION DETAIL
NO SCALE

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING (BOT, UNO)	
			LONGITUDINAL	TRANSVERSE
WF2.5	2' - 6"	1' - 0"	(3) #5 CONT	#5 AT 48" OC
WF4.0	4' - 0"	1' - 0"	(5) #6 CONT	#6 AT 24" OC
WF6.0	6' - 0"	1' - 0"	(8) #6 CONT	#5 AT 12" OC
WF6.0*	6' - 0"	1' - 6"	#5 AT 12" OC TOP & BOT	#7 AT 12" OC TOP & BOT
WF10.0	10' - 0"	1' - 6"	(10) #9 CONT TOP & BOT	#7 AT 10" OC TOP & BOT
WF10.0*	10' - 0"	1' - 6"	#5 AT 12" OC TOP & BOT	#7 AT 10" OC TOP & BOT
WF 8.0	8' - 0"	1' - 4"	(9) #9 CONT TOP & BOT	#7 AT10" OC TOP & BOT

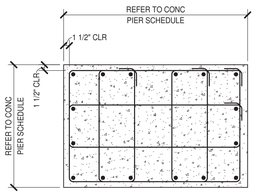


WITH BOT REINFORCING

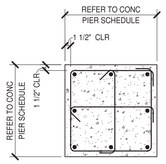


WITH TOP & BOT REINFORCING

WALL FOOTING DETAILS
NO SCALE



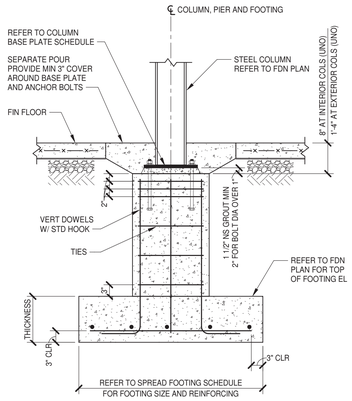
(16) BARS

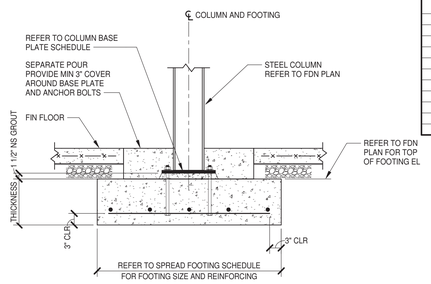


(8) BARS

CONCRETE PIER SCHEDULE

MARK	SIZE		REINFORCING	
	LENGTH	WIDTH	VERTICAL	TIES
P-1	2' - 0"	2' - 0"	(8) #6 DOWELS	#4 @ 12" OC
P-2	4' - 0"	2' - 6"	(16) #7 DOWELS	#4 @ 8" OC

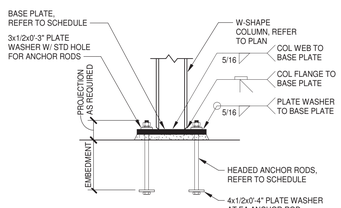




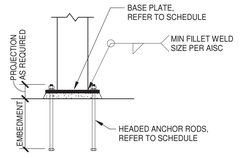
SPREAD FOOTING SCHEDULE

MARK	SIZE			REINFORCING
	LENGTH	WIDTH	THICKNESS	
4.0	4' - 0"	4' - 0"	1' - 0"	(4) #5 EA WAY BOT
5.0	5' - 0"	5' - 0"	1' - 0"	(5) #5 EA WAY BOT
6.0	6' - 0"	6' - 0"	1' - 2"	(7) #5 EA WAY BOT
6.5	6' - 6"	6' - 6"	1' - 4"	(6) #6 EA WAY BOT
7.0	7' - 0"	7' - 0"	1' - 5"	(6) #6 EA WAY BOT
8.0	8' - 0"	8' - 0"	1' - 7"	(9) #6 EA WAY BOT
9.0	9' - 0"	9' - 0"	1' - 10"	(10) #6 EA WAY BOT
9.5	9' - 6"	9' - 6"	1' - 11"	(11) #6 EA WAY TOP& BOT
10.0	10' - 0"	10' - 0"	2' - 0"	(9) #7 EA WAY BOT
10.5	10' - 6"	10' - 6"	2' - 1"	(10) #7 EA WAY BOT
11.0	11' - 0"	11' - 0"	2' - 2"	(11) #7 EA WAY BOT

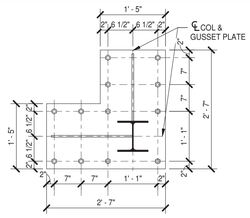
STEEL COLUMN FOOTING DETAILS
NO SCALE



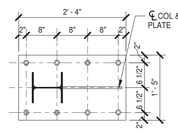
FIXED BASE (W-SHAPE)



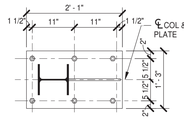
STANDARD BASE



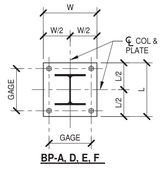
BP- G FIXED BASE



BP-B, C FIXED BASE



BP-H



BP-A, D, E, F

COLUMN BASE PLATE SCHEDULE

MARK	BASE PLATE SIZE			HEADED ANCHOR RODS		
	L	W	T	SIZE	EMBED	GAGE
BP-A	1' - 2"	1' - 2"	1"	(4) 3/4" DIAM	9"	11"
BP-B	2' - 4"	1' - 5"	1 1/2"	(8) 1 1/4" DIAM	23"	SEE DETAIL
BP-C	2' - 4"	1' - 5"	2"	(8) 1 1/2" DIAM	27"	SEE DETAIL
BP-D	1' - 2"	1' - 2"	1 1/2"	(4) 1" DIAM	15"	11"
BP-E	1' - 4"	1' - 4"	1"	(4) 3/4" DIAM	9"	13"
BP-F	1' - 6"	1' - 6"	1"	(4) 3/4" DIAM	9"	15"
BP-G	2' - 7"	2' - 7"	1"	(12) 1 1/4" DIAM	21"	SEE DETAIL
BP-H	2' - 1"	1' - 3"	1 1/2"	(6) 1" DIAM	15"	SEE DETAIL

COLUMN BASE PLATE DETAILS
NO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 035434 ENGINEER

DIVISION OF JUVENILE JUSTICE
NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: 05/22/2019

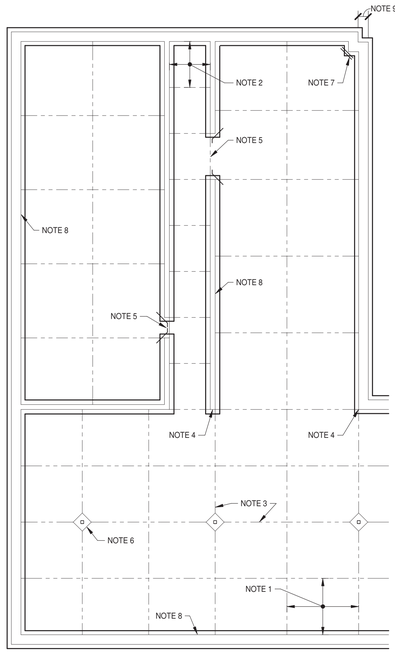
REVISIONS

DATE	DESCRIPTION

TYPICAL FOUNDATION DETAILS

S3.0.1

5/22/2019 12:09:21 PM

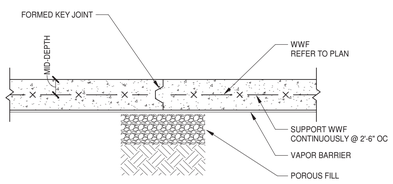


SLAB-ON-GRADE JOINT LAYOUT GUIDELINES

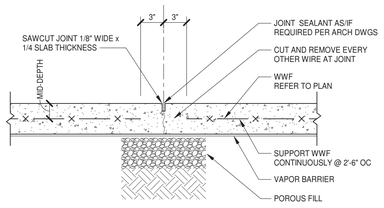
NO SCALE

NOTES:

1. PROVIDE CONTROL JOINTS IN SLABS ON GRADE WITHIN THE BUILDING SUCH THAT THE AREA BOUNDED BY CONTROL JOINTS DOES NOT EXCEED 225 SQUARE FEET AND JOINT SPACING DOES NOT EXCEED 15'-0" ON CENTER IN ANY ONE DIRECTION.
2. THE RATIO OF LENGTH TO WIDTH OF THE AREA BOUNDED BY CONTROL JOINTS SHALL NOT EXCEED 1.5 TO 1.
3. LOCATE CONSTRUCTION JOINTS AND OR CONTROL JOINTS AT COLUMN CENTERLINES.
4. LOCATE CONSTRUCTION JOINTS AND OR CONTROL JOINTS AT RE-ENTRANT CORNERS.
5. LOCATE CONSTRUCTION JOINTS PER "PLAN DETAIL AT INTERIOR DOORS".
6. PROVIDE DIAMOND OR CIRCULAR BLOCKOUTS AT COLUMNS.
7. REINFORCE ALL RE-ENTRANT CORNERS OF SLAB PER "SLAB REINFORCING AT RE-ENTRANT CORNERS".
8. PROVIDE BOND BREAK WHERE FLOOR ABUTS CMU OR CONCRETE WALL UNLESS NOTED OTHERWISE.
9. CONTROL JOINT NOT REQUIRED IF DIMENSION AT RE-ENTRANT CORNER IS 2'-0" OR LESS. PROVIDE REINFORCING PER "SLAB REINFORCING AT RE-ENTRANT CORNER".
10. CONTROL JOINT / CONSTRUCTION JOINT PLANS SHALL BE SUBMITTED IF NOT SHOWN ON FOUNDATION PLANS.



CONSTRUCTION JOINT



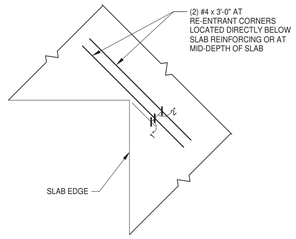
CONTROL JOINT

NOTES:

1. SAWCUT AS SOON AS CONCRETE WILL SUPPORT EQUIPMENT AND EARLY ENOUGH TO PREVENT CRACKING. DO NOT DISLODGE AGGREGATE.
2. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.

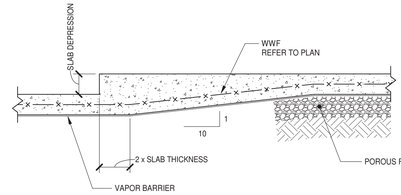
SLAB-ON-GRADE JOINT DETAILS

NO SCALE



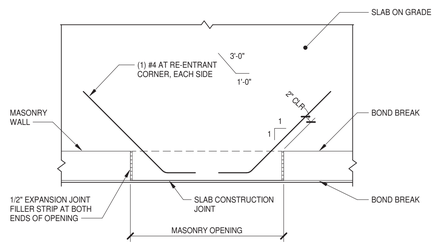
SLAB REINFORCING AT RE-ENTRANT CORNER

NO SCALE

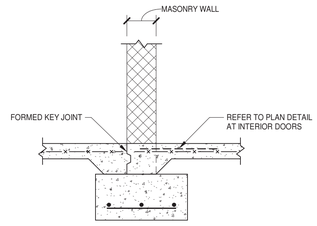


DETAIL AT SLAB DEPRESSION

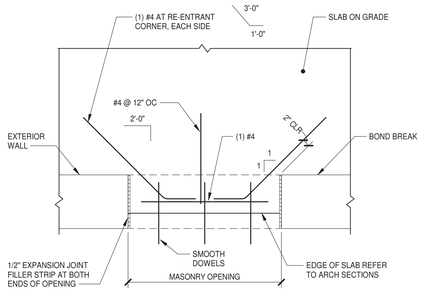
NO SCALE



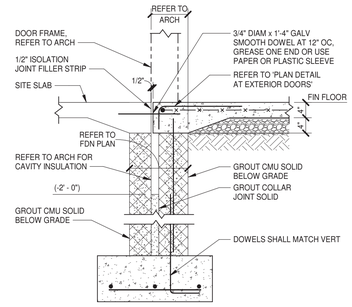
PLAN AT INTERIOR DOORS



SECTION AT INTERIOR DOORS



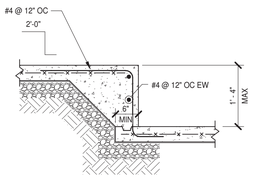
PLAN AT EXTERIOR DOORS



SECTION AT EXTERIOR DOORS

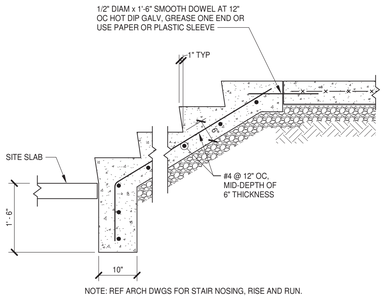
SLAB ON GRADE DETAILS AT DOORS

NO SCALE



STEP IN SLAB ON GRADE

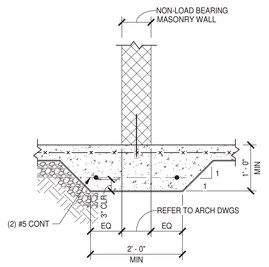
NO SCALE



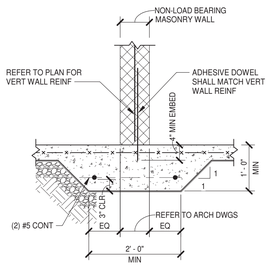
NOTE: REF ARCH DWGS FOR STAIR NOSING, RISE AND RUN.

EXTERIOR CONCRETE STAIR DETAIL

NO SCALE



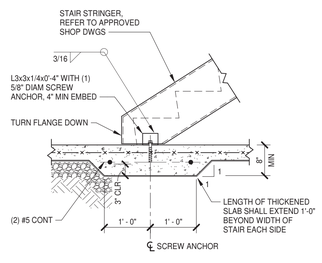
UNREINFORCED WALLS



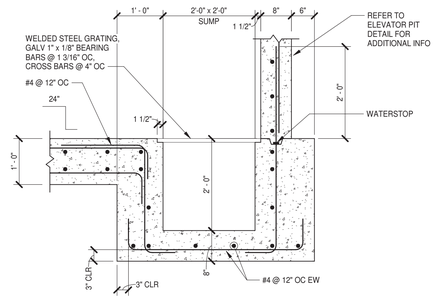
NON-LOAD BEARING REINFORCED WALLS

THICKENED SLAB ON GRADE DETAILS

NO SCALE

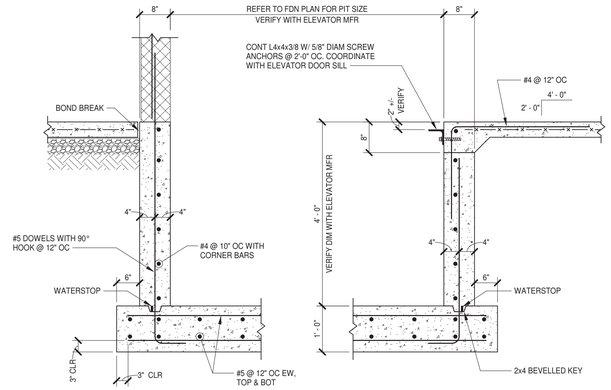


STAIR



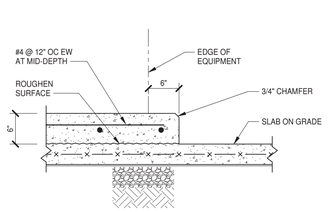
ELEVATOR SUMP DETAIL

NO SCALE



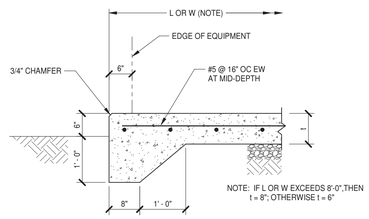
ELEVATOR PIT DETAIL

NO SCALE



NOTE: REFER TO MECH, ELEC, PLUMBING AND CIVIL DRAWINGS FOR EQUIPMENT REQUIRING HOUSEKEEPING PAD

HOUSEKEEPING PAD



NOTE: REFER TO MECH, ELEC, PLUMBING AND CIVIL DRAWINGS FOR EQUIPMENT REQUIRING EXTERIOR PAD

EXTERIOR EQUIPMENT PAD

EQUIPMENT PAD DETAILS

NO SCALE

MOSELEY ARCHITECTS
11430 NORTH COMMUNITY HOUSE ROAD GIBSON BUILDING SUITE 225 CHARLOTTE, NC 28277
PHONE (704) 540-3755 FAX (704) 540-3754
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035434 REGISTERED

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	05/22/2019

REVISIONS

DATE	DESCRIPTION

TYPICAL SLAB DETAILS

S3.0.2

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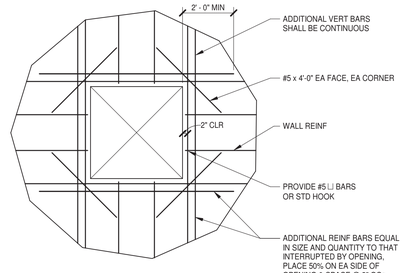
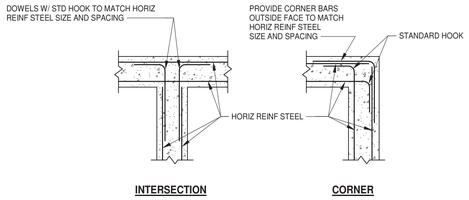


OPENING IN CONCRETE WALL

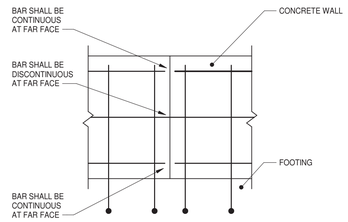
NO SCALE

NOTE: NOT REQUIRED FOR OPENINGS < 12".

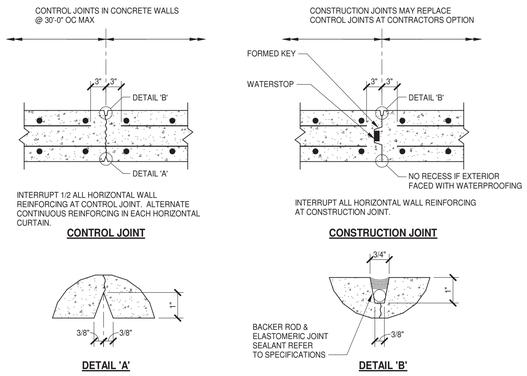


CONCRETE WALL DETAILS

NO SCALE



ELEVATION AT CONTROL JOINT



DETAIL 'A' APPLIES AT:
1. INTERIOR FACE IF SEALANT IS NOT INDICATED

DETAIL 'B' APPLIES AT:
1. INTERIOR FACE IF SEALANT IS INDICATED
2. EXTERIOR FACE IF EXPOSED

CIP CONCRETE WALL CONTROL & CONSTRUCTION JOINT DETAILS

NO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 035434 ENGINEER SEVERN M. CORBIN

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: 05/22/2019
REVISIONS	
DATE	DESCRIPTION

TYPICAL CONCRETE WALL DETAILS

S3.0.3

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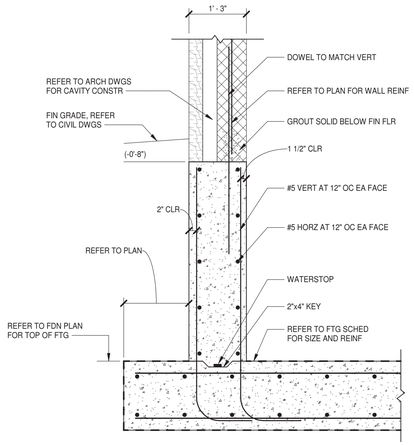
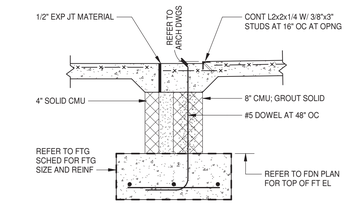
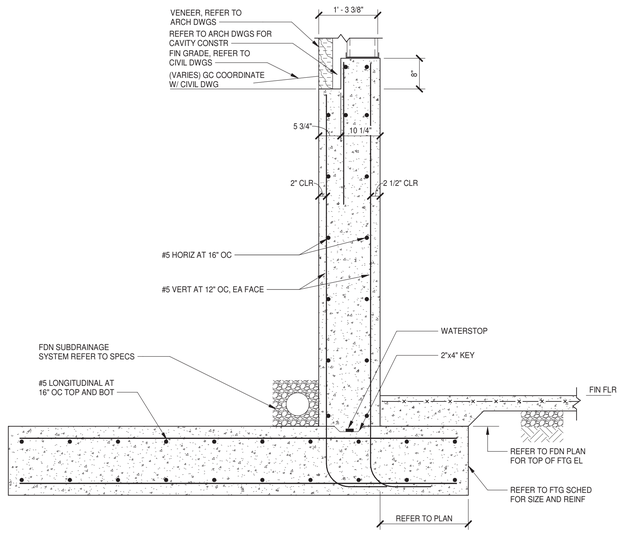


9 SECTION S1.1.1 | S3.1.1 — 3/4" = 1'-0"



6 SECTION S1.1.1 | S3.1.1 — 3/4" = 1'-0"



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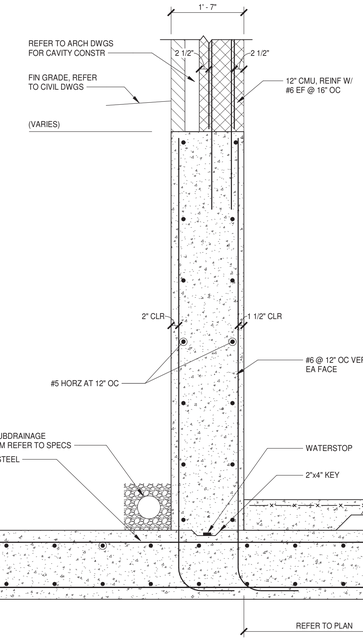
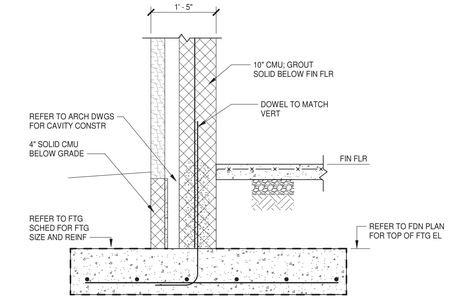


8 SECTION S1.1.1 | S3.1.1 — 3/4" = 1'-0"



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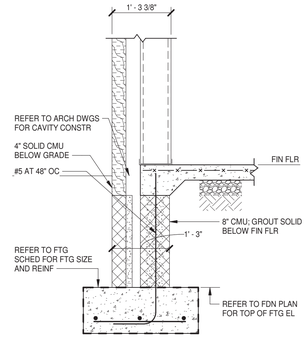

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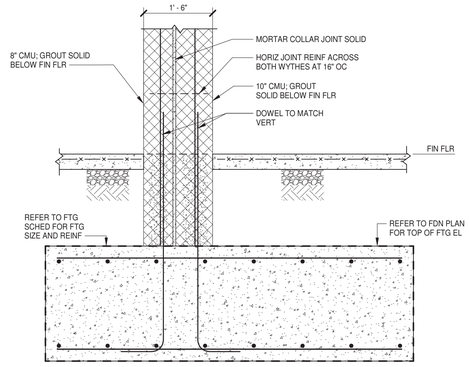

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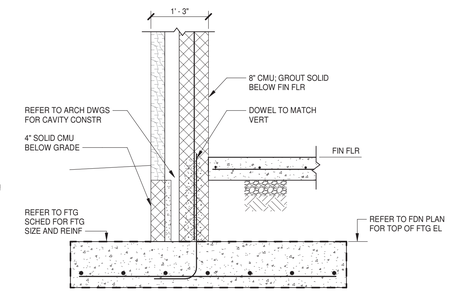

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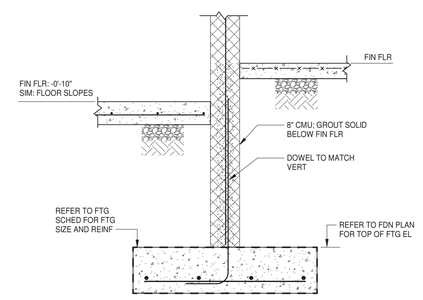

1 SECTION S1.1.1 | S3.1.1 — 3/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035434 REGISTERED

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	05/22/2019

REVISIONS

DATE	DESCRIPTION

FOUNDATION SECTIONS

S3.1.1

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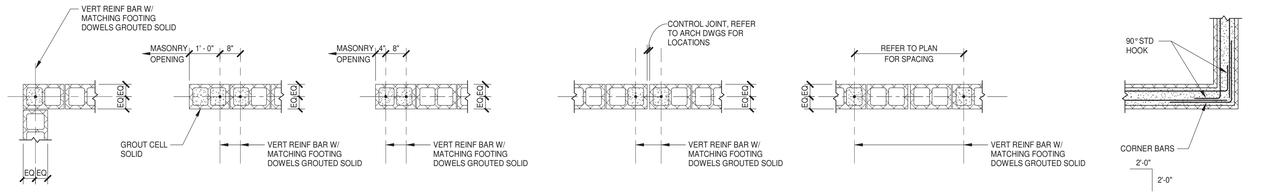


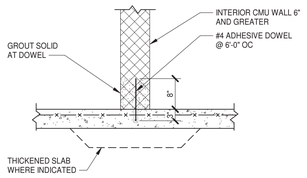
CORNER | **JAMB AT STEEL LINTEL** | **JAMB AT CMU BOND BEAM LINTEL** | **VERTICAL CONTROL JOINTS** | **TYPICAL REINFORCED WALL** | **BOND BEAM PLAN DETAIL AT CORNER**

NOTES:

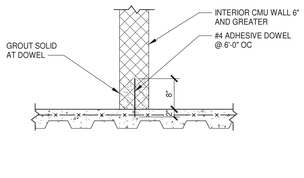
1. REINFORCING BAR SIZE INDICATED ON FOUNDATION PLAN.
2. DETAILS ARE PROVIDED FOR VERTICAL REINFORCING STEEL PLACEMENT ONLY. REFER TO ARCHITECTS DRAWINGS FOR SPECIFIC MASONRY DETAILS.

CMU WALL REINFORCING DETAILS

NO SCALE



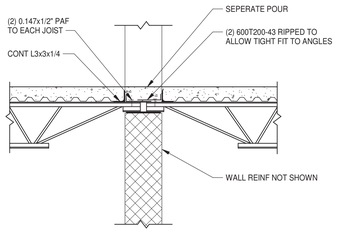
SLAB-ON-GRADE

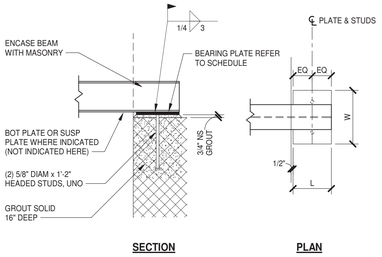


SLAB-ON-DECK

BASE ANCHORAGE OF UNREINFORCED CMU WALLS

NO SCALE





SECTION | **PLAN**

BEAM ANCHORAGE DETAILS

NO SCALE

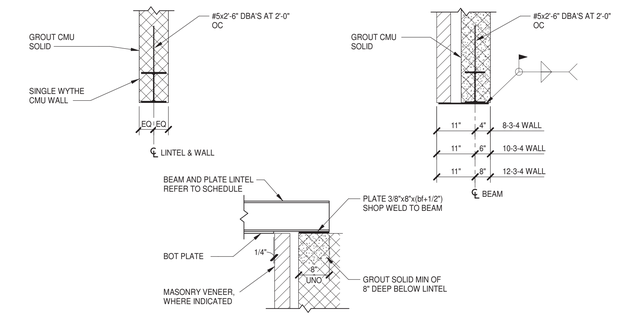
BEARING PLATE SCHEDULE

MARK	SIZE			REMARKS
	W	t	L	
BP1	9"	3/4"	7"	

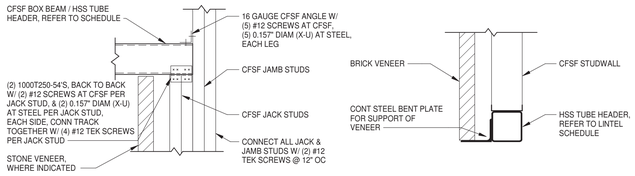
REFER TO BEAM ANCHORAGE DETAILS

LINTEL SCHEDULE

MARK	DIAGRAM	BOND BEAM (W x H)	REINFORCING	STEEL	NOTES
L1		8 x 8	(2) #5 CONT	L6x6x5/16	STEEL ANGLE ONLY WHERE SUPPORTING VENEER
L2		8 x 16	(2) #5 CONT, EA COURSE		
L3		8 x 24	(2) #5 CONT, EA COURSE	L7x7x3/8 - CONN TO CMU BACKUP WITH 1/2" DIAM SCREW ANCHOR AT 0'-11" OC	ANGLE ONLY WHERE SUPPORTING VENEER
L4				CONT 7"x7"x3/8" BENT PLATE AT L1 THRU L3, CONT 8"x6"x3/8" (LLH) BENT PLATE AT L7	CONN TO CMU W/ 5/8" DIAM SCREW ANCHORS AT 0'-8" OC, SET ANCHOR 2" FROM TOP OF VERT LEG, WELD TO STEEL LINTELS, TOP & BOT
L5				W8x18 W/ 5/16" x 1'-3" BOTTOM PLATE	
L6		10 x 8	(2) #5 CONT		
L7				CFSF-S HEADER W/ CONT L6x6x5/16	ANGLE ONLY WHERE SUPPORTING VENEER
L8				HSS8x6x3/8 W/ CONT L6x6x5/16	ANGLE ONLY WHERE SUPPORTING VENEER
L9				HSS8x4x3/8	
L10				W8x28	



STEEL LINTEL DETAILS (CMU BACKUP)



CFSF LINTEL BEARING (CFSF BACKUP) | **LOOSE ANGLE LINTEL (CFSF BACKUP)**

LINTEL NOTES

1. LINTELS FOR ARCHITECTURAL OPENINGS (WINDOWS, DOORS, LOUVERS) IN BEARING WALLS AND EXTERIOR WALLS ARE IDENTIFIED BY MARK NUMBER ON THE FRAMING PLAN(S) AND INCLUDED IN THE LINTEL SCHEDULE.
2. LINTELS FOR ARCHITECTURAL OPENINGS IN NON-LOAD BEARING WALLS AND OTHER WALLS WHICH ARE NOT INDICATED ON THE FRAMING PLAN(S) SHALL BE CONSTRUCTED PER NOTES A, B OR C BELOW.

   A. STEEL ANGLE LINTELS

   PROVIDE ONE ANGLE FOR EACH NOMINAL 4" OF WALL THICKNESS PER THE FOLLOWING SCHEDULE.

MASONRY OPENING	ANGLE SIZE
UP TO 5'-0"	L3 1/2x3 1/2x 5/16
5'-1" TO 6'-0"	L4x3 1/2x 5/16 (LLV)
6'-1" TO 7'-0"	L5x3 1/2x 5/8 (LLV)
OVER 7'-0"	AS DETAILED

   FOR OPENINGS ON 10" CMU, HORIZONTAL LEGS OF ANGLES SHALL BE A COMBINATION OF 5" AND 4".

   FOR OPENINGS IN 6" CMU REQUIRING STEEL LINTELS, USE WT7x11 UP TO 7'-0" OPENING.

   B. REINFORCED BOND BEAM LINTELS

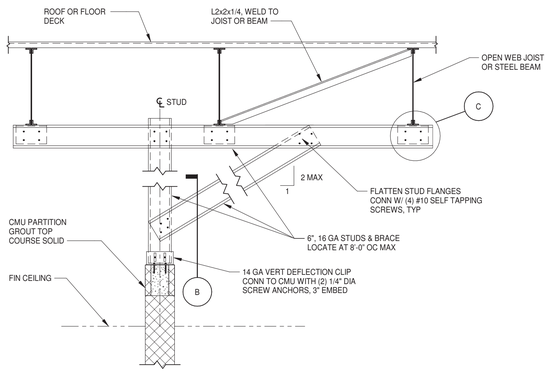
   LINTELS SHALL MATCH THICKNESS OF WALL. REINFORCE 8", 10" AND 12" BOND BEAM WITH (2) #5 BARS AT BOTTOM. REINFORCE 6" BOND BEAM WITH (1) #5 BAR AT BOTTOM. BOND BEAM SHALL BE 8" DEEP FOR OPENING WIDTH UP TO 5'-0", AND SHALL BEAR 8" ON SOLID MASONRY EACH END. BOND BEAM SHALL BE 16" DEEP FOR OPENING WIDTH UP TO 8'-0" AND SHALL BEAR 16" ON SOLID MASONRY EACH END WITH REINFORCING TOP AND BOTTOM. PLACE GROUT MONOLITHICALLY IN BOTH COURSES OF 16" DEEP BOND BEAM.

   C. PRECAST CONCRETE LINTELS

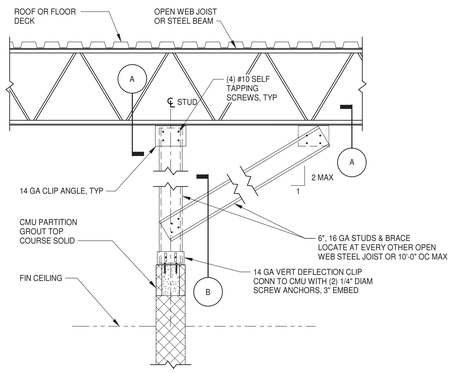
   PRECAST CONCRETE LINTELS SHALL BE 3 5/8" x 7 5/8" FOR EACH NOMINAL 4" THICKNESS OF WALL. REINFORCING SHALL BE (1) #4 TOP AND BOTTOM WITH 1 1/2" COVER. FOR OPENINGS IN 6" CMU, LINTEL SHALL BE 5 5/8" x 7 5/8", REINFORCED WITH (1) #5 TOP AND BOTTOM. MASONRY OPENING WIDTH SHALL BE 6'-0" OR LESS. DO NOT USE PRECAST CONCRETE LINTELS IN EXPOSED LOCATIONS.
3. LINTELS FOR MECHANICAL DUCTWORK PENETRATIONS NOT OTHERWISE DETAILED SHALL BE ONE OF THE ABOVE (NOTE 2A, 2B OR 2C).
4. LINTELS SHALL BEAR 8" ONTO SOLID OR GROUT FILLED MASONRY, UNLESS OTHERWISE INDICATED.
5. LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS GREATER THAN 8" IN WIDTH.
6. LINTELS ARE NOT REQUIRED ABOVE HOLLOW METAL FRAMES IN OPENINGS 3'-4" OR LESS IN 6" NON-BEARING MASONRY PARTITIONS. GROUT HEAD OF FRAMES SOLID BEFORE PLACING MASONRY.
7. ALL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.

INFILL SLAB AT CORRIDOR OPENINGS

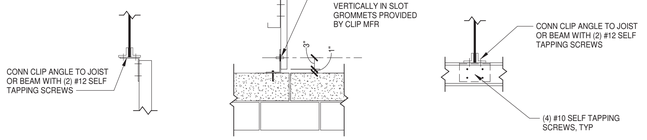
NO SCALE



LOW WALL PARALLEL TO JOIST OR BEAM



LOW WALL PERPENDICULAR TO JOIST OR BEAM



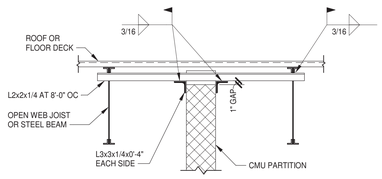
SECTION A | **SECTION B** | **DETAIL C**

NOTES:

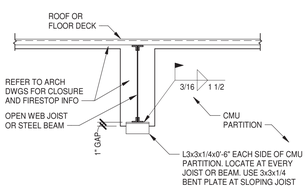
1. BRACE INTERIOR NON-LOAD BEARING MASONRY WALLS IN ACCORDANCE WITH THESE DETAILS UNLESS OTHERWISE INDICATED.
2. IN LIEU OF BRACING AT TOPS OF WALLS, BRACING MAY BE PROVIDED BY INTERSECTING MASONRY WALLS WHEN THE DISTANCE BETWEEN THE INTERSECTING WALLS DOES NOT EXCEED THE FOLLOWING:

NOMINAL THICKNESS OF BRACED WALLS	MAXIMUM SPACING BETWEEN INTERSECTING WALLS
4"	12'-0"
6"	16'-0"
8"	22'-0"
10"	26'-0"
12"	30'-0"

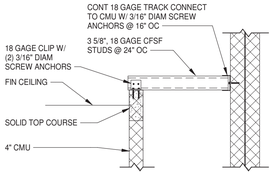
3. BRACING IS REQUIRED IN ACCORDANCE WITH THESE DETAILS IF A VERTICAL CONTROL JOINT OCCURS BETWEEN INTERSECTING WALLS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR PARTITION TYPES AND LOCATIONS.
5. INSTALL BRACING AFTER ALL ROOF DEAD LOAD IS IN PLACE.



WALL TO UNDERSIDE OF DECK PARALLEL TO JOISTS



WALL TO UNDERSIDE OF DECK PERPENDICULAR TO JOISTS



4" CMU TOP OF WALL BRACING

BRACING DETAILS FOR NON-LOAD BEARING INTERIOR MASONRY PARTITIONS

NO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 035434 ENGINEER JOSEPH C. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	05/22/2019

REVISIONS

DATE	DESCRIPTION

TYPICAL MASONRY WALL AND LINTEL DETAILS

S4.0.1

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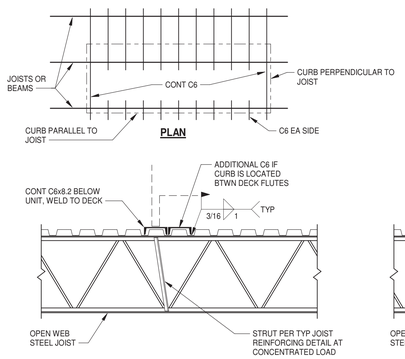
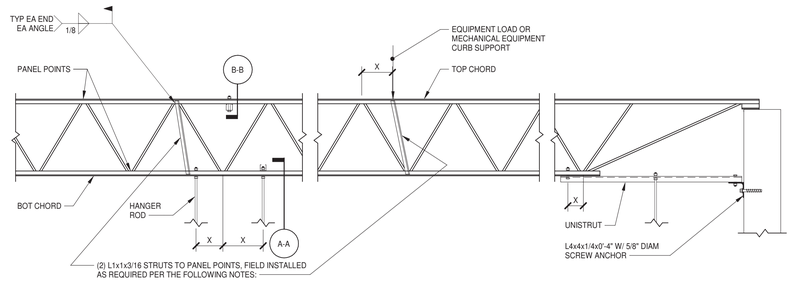


CURB SUPPORT DETAILS
NO SCALE



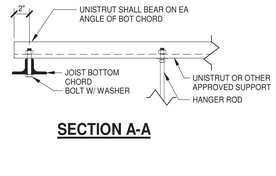
K-SERIES JOISTS:
1. WHERE UTILITIES RUN PARALLEL TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD (IF DIRECTLY BELOW JOIST), OR UNISTRUT REACTION (IF PIPE IS BETWEEN JOISTS) DOES NOT EXCEED 200 LBS.
2. WHERE UTILITIES RUN PERPENDICULAR TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD DOES NOT EXCEED 200 LBS.
3. IF INDIVIDUAL HANGER LOAD EXCEEDS 200 LBS ON ANY JOIST, AND DIMENSION 'X' EXCEEDS 6", STRUTS SHALL BE INSTALLED AS INDICATED ABOVE.
4. WHERE MULTIPLE HANGERS ARE LOCATED BETWEEN PANEL POINTS, THE CUMULATIVE LOAD SHALL NOT EXCEED 200 LBS.

KCS AND LH-SERIES JOISTS:
1. WHERE UTILITIES RUN PARALLEL TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD (IF DIRECTLY BELOW JOIST), OR UNISTRUT REACTION (IF PIPE IS BETWEEN JOISTS) DOES NOT EXCEED 500 LBS.
2. WHERE UTILITIES RUN PERPENDICULAR TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD DOES NOT EXCEED 500 LBS, OR HANGER SHALL BE LOCATED AT EA JOIST.
3. IF INDIVIDUAL HANGER LOAD EXCEEDS 500 LBS ON ANY JOIST, AND DIMENSION 'X' EXCEEDS 6", STRUTS SHALL BE INSTALLED AS INDICATED ABOVE.
4. WHERE MULTIPLE HANGERS ARE LOCATED BETWEEN PANEL POINTS, THE CUMULATIVE LOAD SHALL NOT EXCEED 500 LBS.

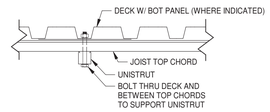
GENERAL:
1. C-CLAMPS SHALL NOT BE USED WHERE HANGER LOAD EXCEEDS 50 LBS.

NOTE:
THE GENERAL CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS FOR HANGER SPACING AND JOIST REINFORCING STRUTS WITH MECHANICAL, PLUMBING, AND FIRE PROTECTION TRADES IN ORDER TO ENSURE THAT THESE REQUIREMENTS ARE ACCOUNTED FOR IN THE BID PRICE AND IMPLEMENTED IN THE FIELD. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE REINFORCING STRUTS IN ALL CASES WHERE THE HANGER LOAD EXCEEDS THE MAXIMUM. IF HANGER LOCATIONS ARE COORDINATED TO COMPLY WITH THE MAXIMUM HANGER LOADS INDICATED IN THIS DETAIL, THE NUMBER OF JOIST REINFORCING STRUTS WILL BE MINIMIZED.

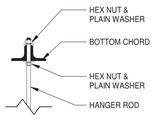
TYPICAL LOAD SUPPORTED FROM JOIST DETAIL
NO SCALE



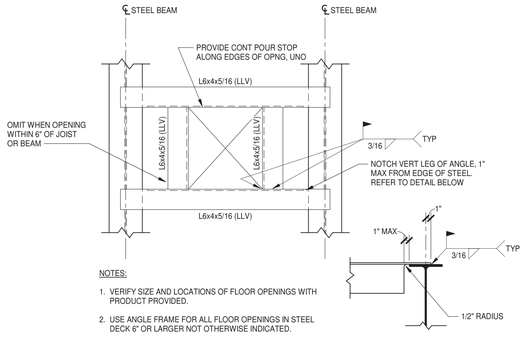
SECTION A-A



SECTION B-B

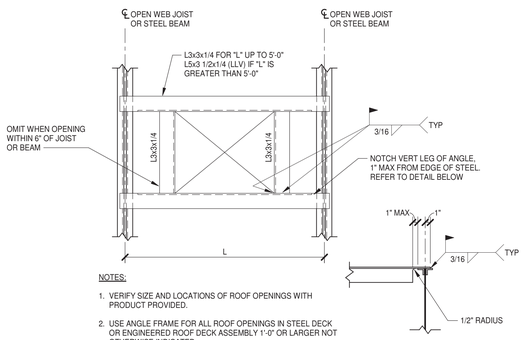


NOTE: CONTRACTOR SHALL PROVIDE DESIGN OF HANGER, INCLUDING WASHERS. C-CLAMPS PERMITTED WHEN LOAD IS LESS THAN 50 LBS



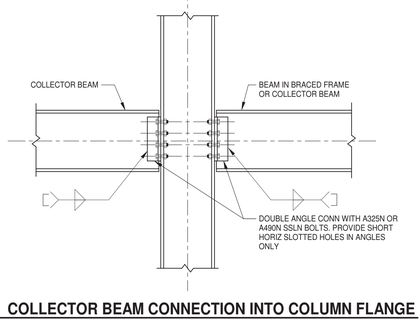
NOTES:
1. VERIFY SIZE AND LOCATIONS OF FLOOR OPENINGS WITH PRODUCT PROVIDED.
2. USE ANGLE FRAME FOR ALL FLOOR OPENINGS IN STEEL DECK 6" OR LARGER NOT OTHERWISE INDICATED.

FLOOR OPENING SUPPORT DETAIL
NO SCALE

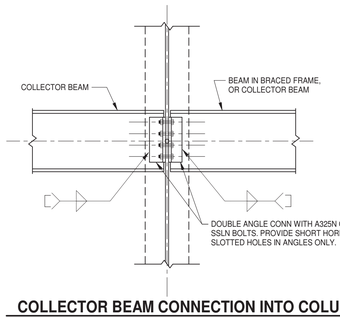


NOTES:
1. VERIFY SIZE AND LOCATIONS OF ROOF OPENINGS WITH PRODUCT PROVIDED.
2. USE ANGLE FRAME FOR ALL ROOF OPENINGS IN STEEL DECK OR ENGINEERED ROOF DECK ASSEMBLY 1'-0" OR LARGER NOT OTHERWISE INDICATED.

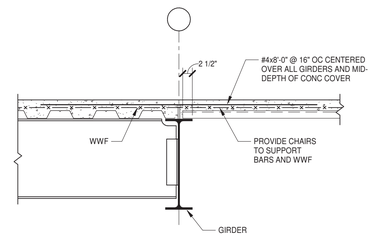
ROOF OPENING SUPPORT DETAIL
NO SCALE



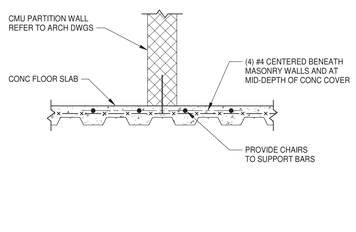
COLLECTOR BEAM CONNECTION INTO COLUMN FLANGE
NO SCALE



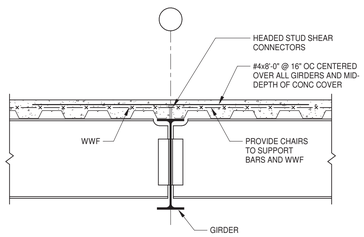
COLLECTOR BEAM CONNECTION INTO COLUMN WEB
NO SCALE



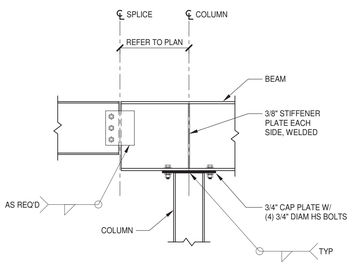
DETAIL AT CHANGE IN FLOOR DECK SPAN DIRECTION
NO SCALE



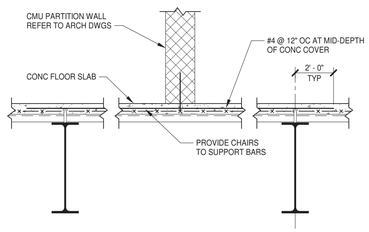
ADDITIONAL SLAB REINFORCING AT FULL HEIGHT MASONRY WALLS PERPENDICULAR TO BEAMS
NO SCALE



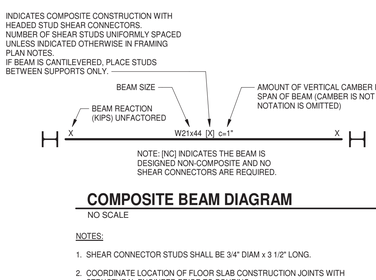
COMPOSITE SLAB DETAIL
NO SCALE



BEAM SPLICE OVER COLUMN
NO SCALE

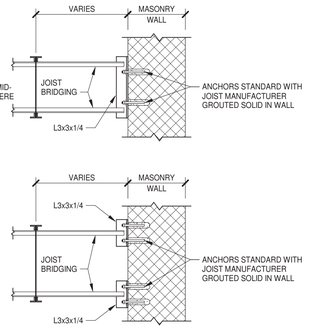


ADDITIONAL SLAB REINFORCING AT FULL HEIGHT MASONRY WALLS PARALLEL TO BEAMS
NO SCALE

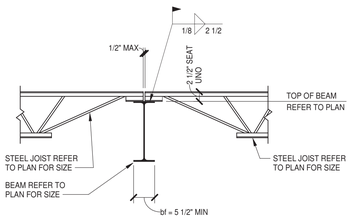


COMPOSITE BEAM DIAGRAM
NO SCALE

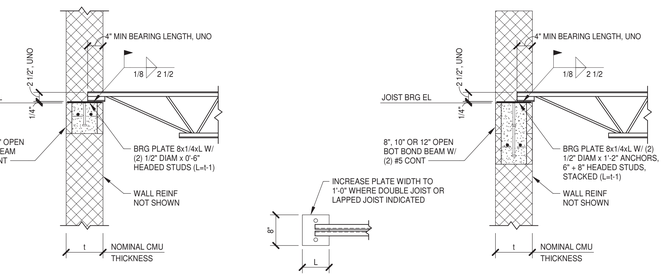
NOTES:
1. SHEAR CONNECTOR STUDS SHALL BE 3/4" DIAM x 3 1/2" LONG.
2. COORDINATE LOCATION OF FLOOR SLAB CONSTRUCTION JOINTS WITH STRUCTURAL ENGINEER PRIOR TO POURING.
3. CONSTRUCTION JOINTS PARALLEL TO A BEAM SHALL BE NO CLOSER TO THE BEAM THAN THE MINIMUM OF ONE-EIGHTH OF THE BEAM SPAN (CENTER TO CENTER OF SUPPORTS), OR ONE-HALF THE DISTANCE TO THE CENTERLINE OF THE ADJACENT BEAM.



K SERIES STEEL JOIST BRIDGING ANCHORAGE
NO SCALE



CONNECTION OF K SERIES STEEL JOIST TO STEEL BEAM
NO SCALE



SECTION AT FLOOR | PLAN DETAIL | SECTION AT ROOF

TYPICAL K SERIES STEEL JOIST ANCHORAGE DETAILS AT CMU WALLS
NO SCALE

K JOIST WELD TABLE

JOIST SECTION	MINIMUM FILLET WELD
K1-12	2 - 1/8" x 2 1/2"
KCS	2 - 1/8" x 2 1/2"

LH JOIST WELD TABLE

JOIST SECTION	MINIMUM FILLET WELD
LH02-06	2 - 3/16" x 2 1/2"
LH07-17	2 - 1/4" x 2 1/2"
DLH	2 - 1/4" x 4"

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12/31/2020 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035434 ENGINEER ALTER THIS DOCUMENT (-0) (-1) (-2)

DIVISION OF JUVENILE JUSTICE
NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	05/22/2019

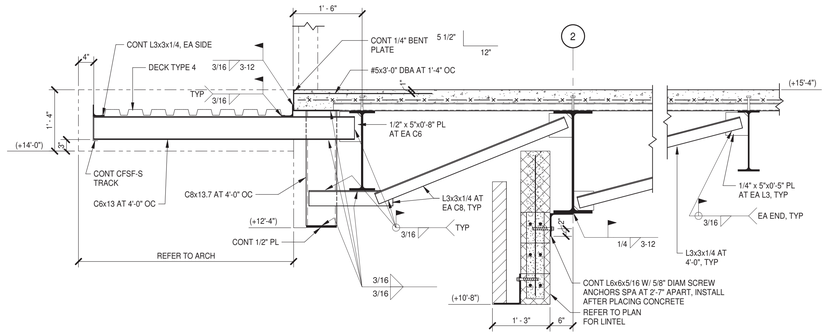
REVISIONS

DATE	DESCRIPTION

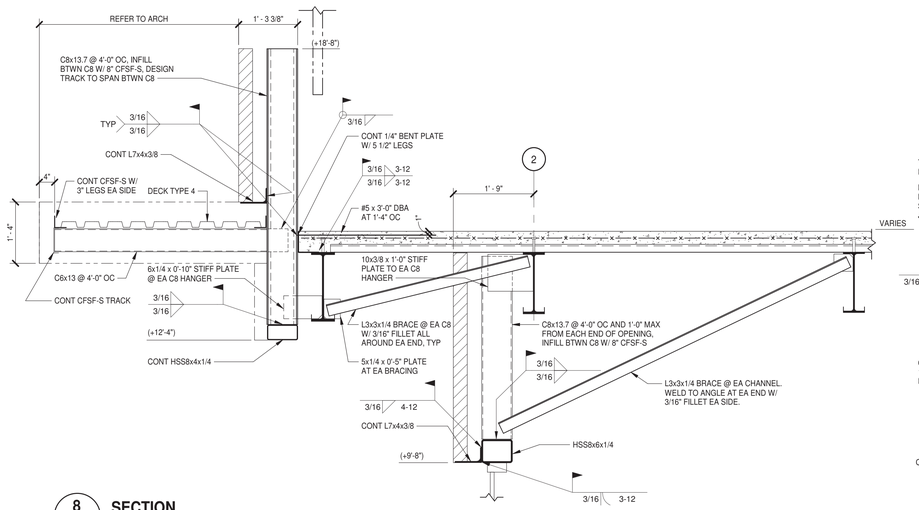
TYPICAL FRAMING DETAILS

S4.0.2

5/22/2019 12:09:26 PM



18 SECTION S2.1.1 | S4.1.1 — 3/4" = 1'-0"



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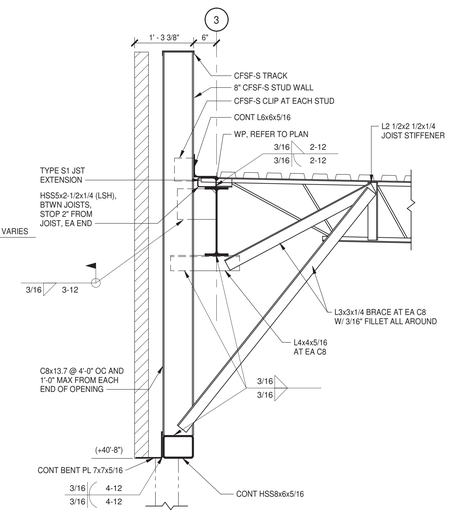
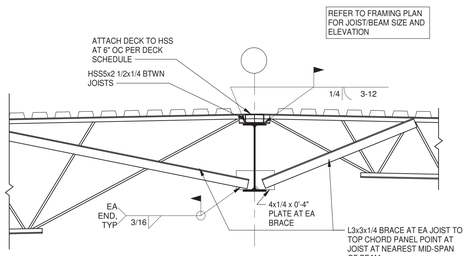
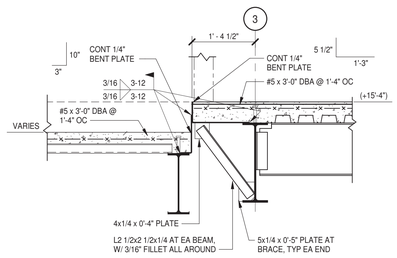


4 SECTION S2.3.1 | S4.1.1 — 3/4" = 1'-0"



17 SECTION S2.3.1 | S4.1.1 — 3/4" = 1'-0"



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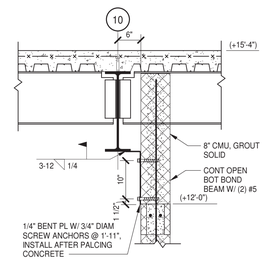

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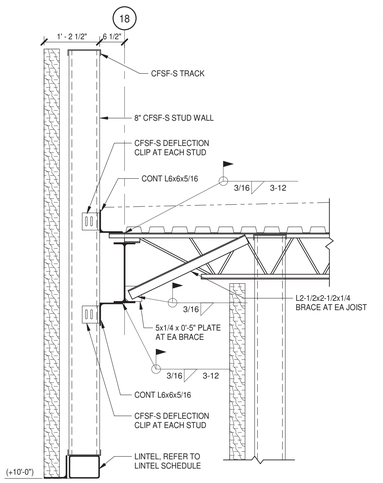

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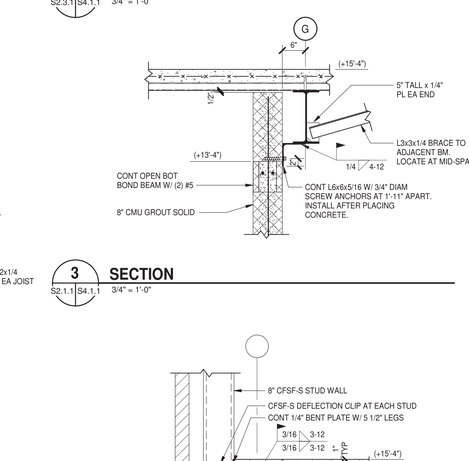

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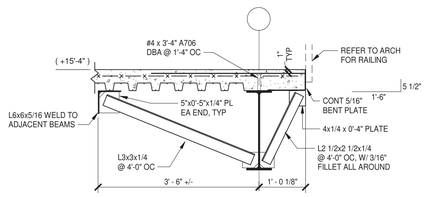
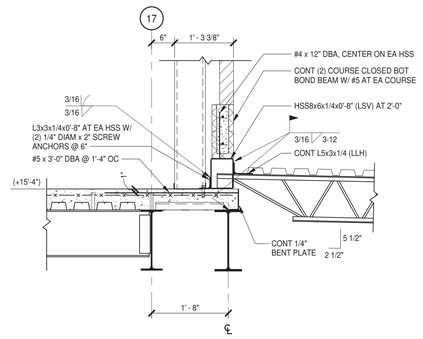
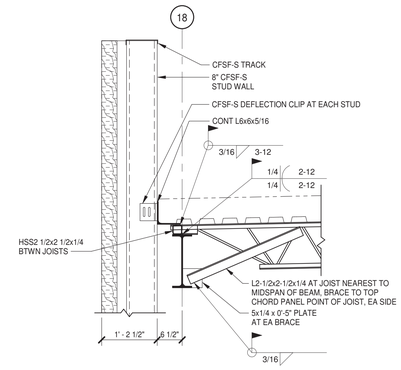


16 SECTION S2.1.1 | S4.1.1 — 3/4" = 1'-0"



13 SECTION S2.1.1 | S4.1.1 — 3/4" = 1'-0"



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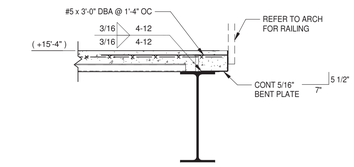

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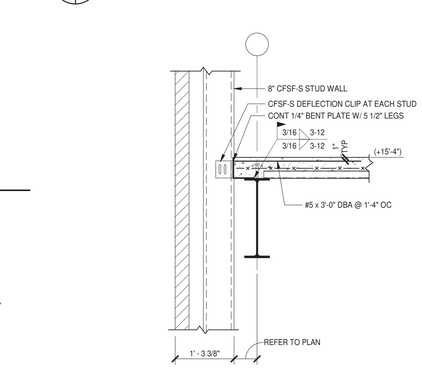

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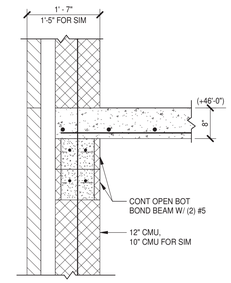
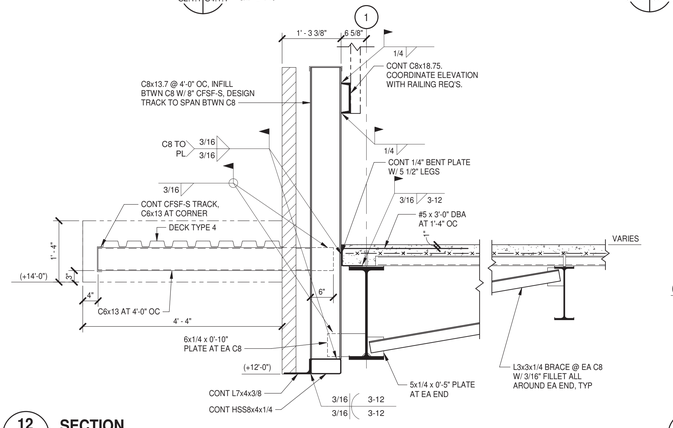


15 SECTION S2.3.1 | S4.1.1 — 3/4" = 1'-0"



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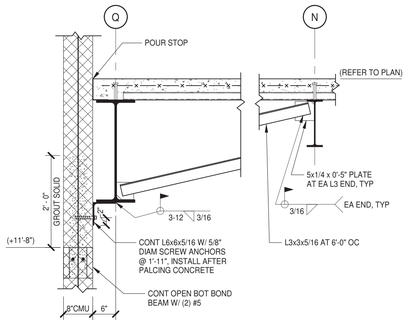

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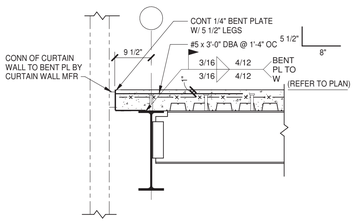

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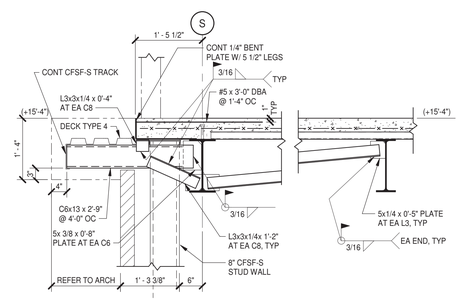

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035434 — 12/31/2019 (-0-) EXPIRATION

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	05/22/2019

REVISIONS

DATE	DESCRIPTION

FRAMING SECTIONS

S4.1.1

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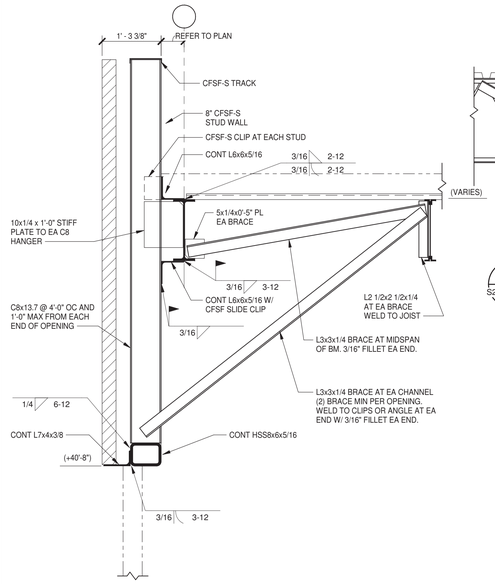
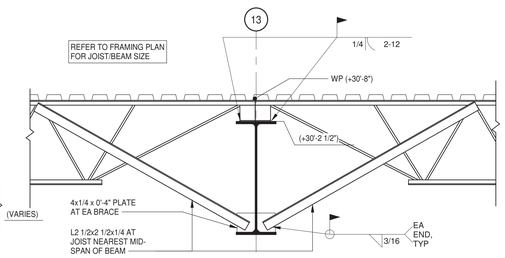
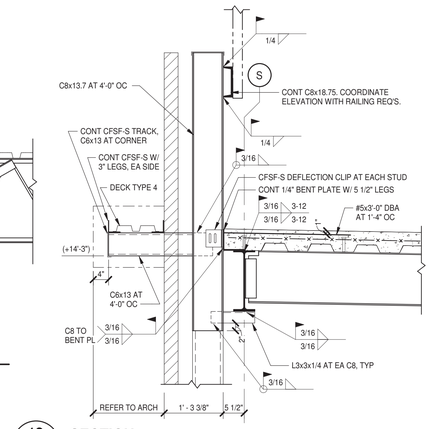


19 SECTION S2.3.1 | S4.1.2 3/4" = 1'-0"



16 SECTION S2.2.1 | S4.1.2 3/4" = 1'-0"



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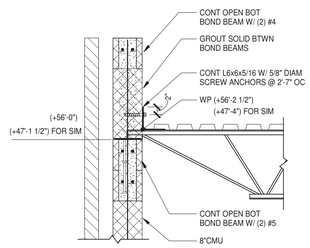

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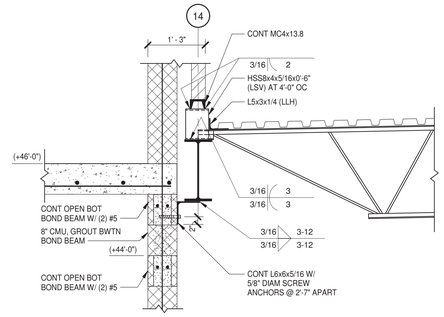

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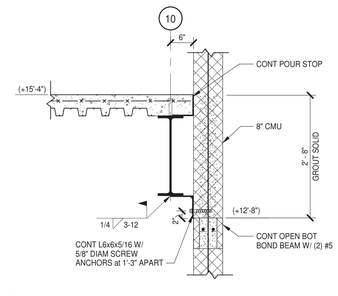

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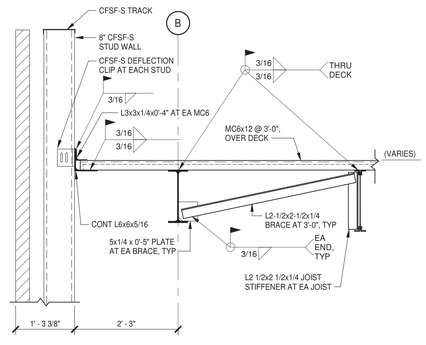

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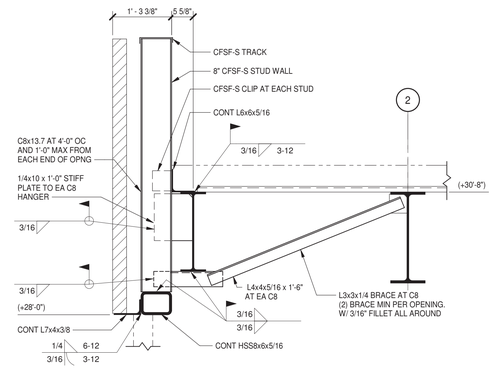
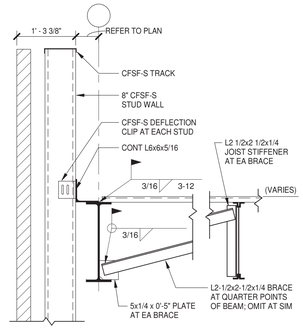


7 SECTION S2.2.1 | S4.1.2 3/4" = 1'-0"



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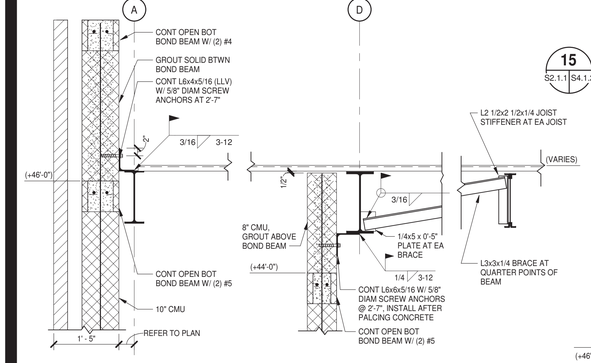

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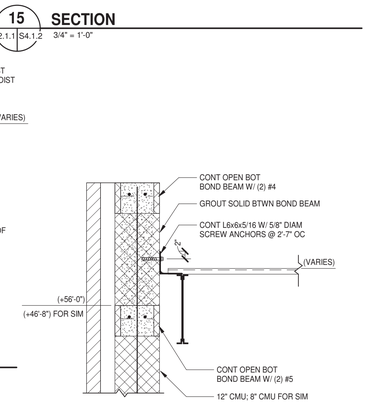

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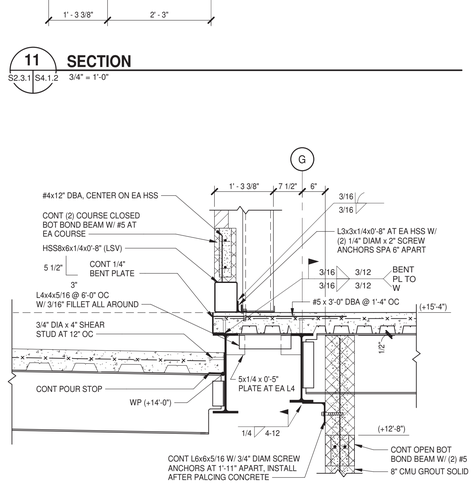
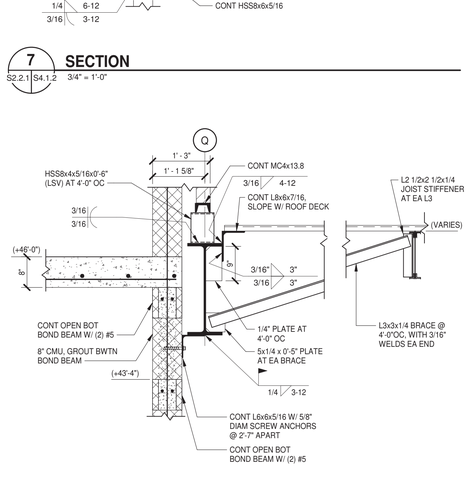
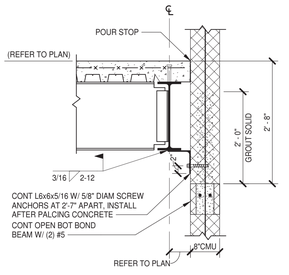


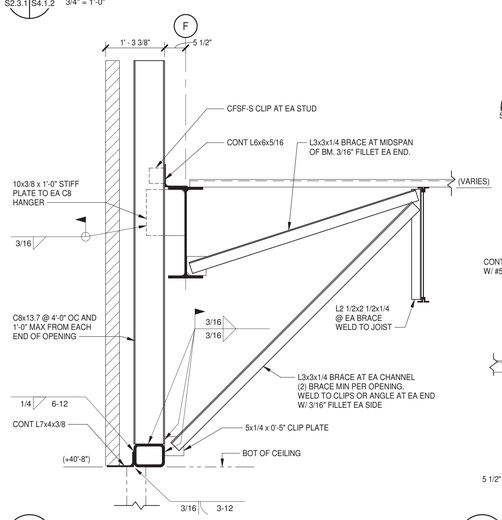
10 SECTION S2.1.1 | S4.1.2 3/4" = 1'-0"



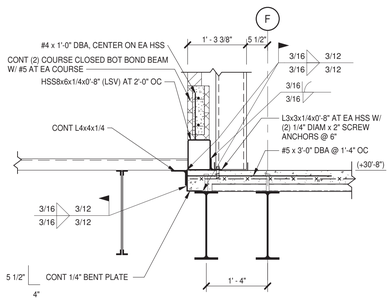
6 SECTION S2.3.1 | S4.1.2 3/4" = 1'-0"



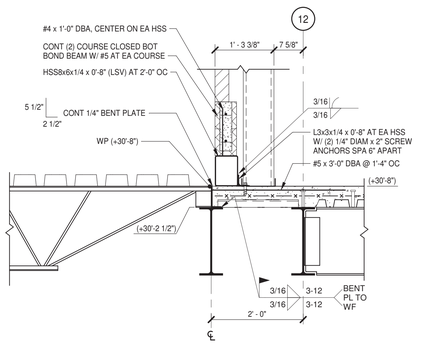
2 SECTION S2.1.1 | S4.1.2 3/4" = 1'-0"



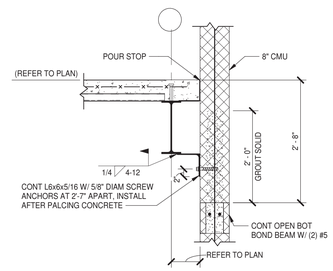
17 SECTION S2.3.1 | S4.1.2 3/4" = 1'-0"



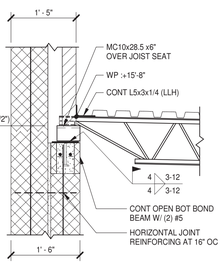
13 SECTION S2.2.1 | S4.1.2 3/4" = 1'-0"



9 SECTION S2.2.1 | S4.1.2 3/4" = 1'-0"



5 SECTION S2.1.1 | S4.1.2 3/4" = 1'-0"



1 SECTION S2.1.1 | S4.1.2 3/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 035434 ENGINEER ROBERT C. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	05/22/2019

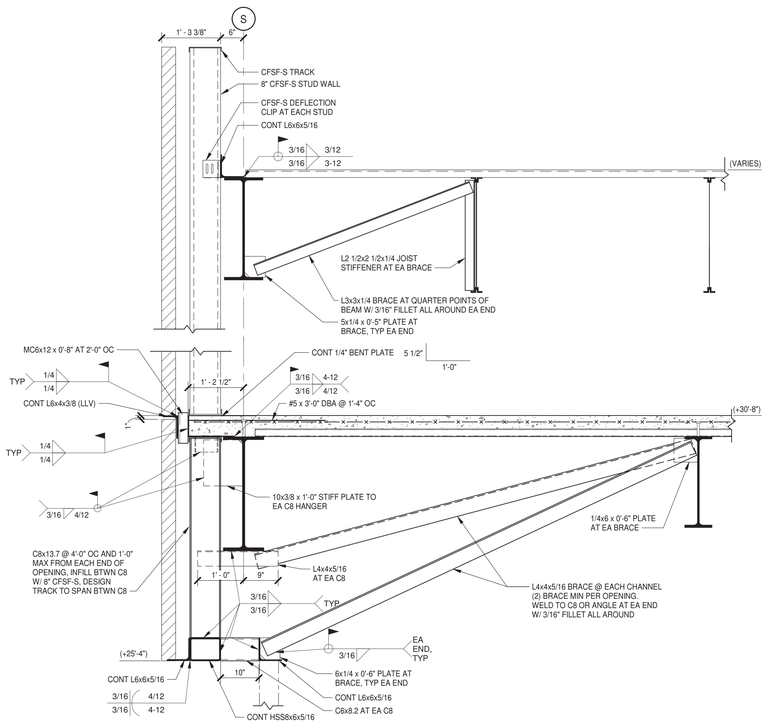
REVISIONS

DATE	DESCRIPTION

FRAMING SECTIONS

S4.1.2

5/22/2019 12:09:41 PM



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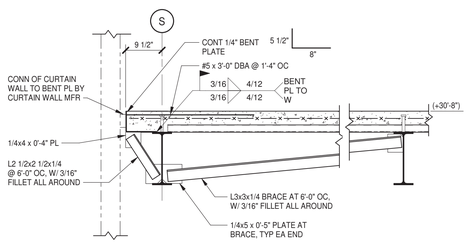
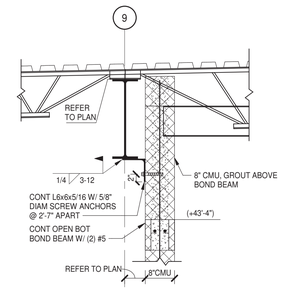
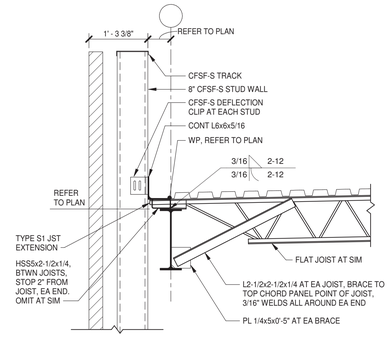


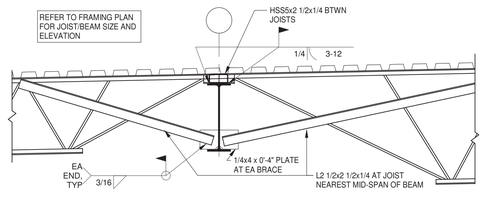
12 S2.2.1 S4.1.3 **SECTION** 3/4" = 1'-0"



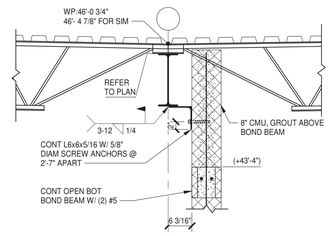
8 S2.3.1 S4.1.3 **SECTION** 3/4" = 1'-0"



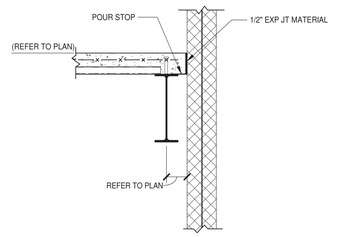
4 S2.2.1 S4.1.3 **SECTION** 3/4" = 1'-0"



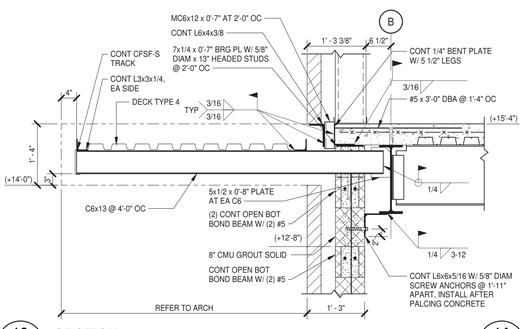
11 S2.3.1 S4.1.3 **SECTION** 3/4" = 1'-0"



7 S2.3.1 S4.1.3 **SECTION** 3/4" = 1'-0"



3 S2.1.1 S4.1.3 **SECTION** 3/4" = 1'-0"



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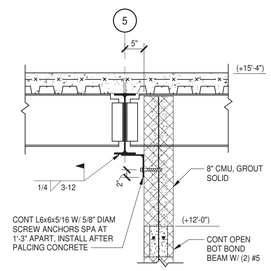

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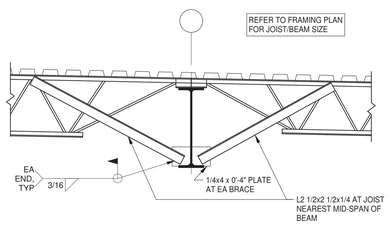
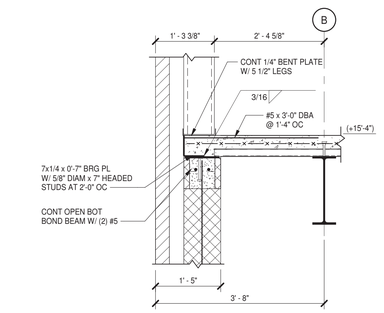
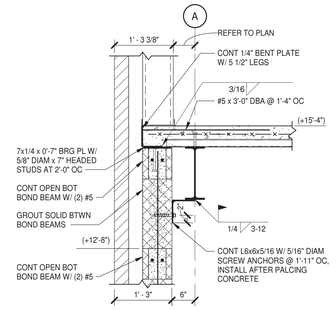


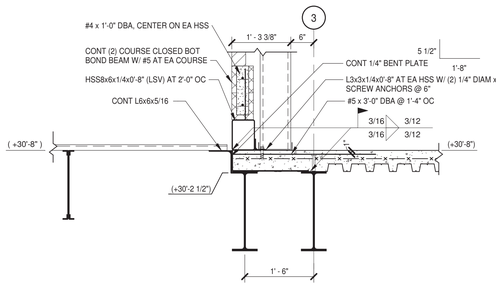
10 S2.3.1 S4.1.3 **SECTION** 3/4" = 1'-0"



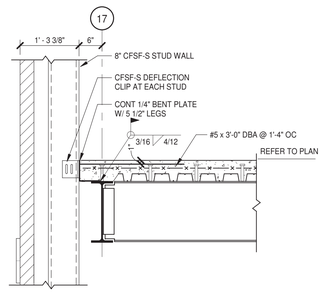
6 S2.1.1 S4.1.3 **SECTION** 3/4" = 1'-0"



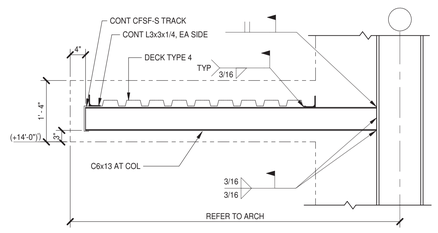
2 S2.1.1 S4.1.3 **SECTION** 3/4" = 1'-0"



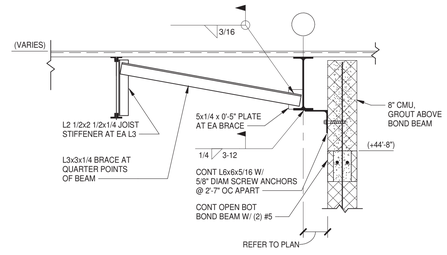
15 S2.2.1 S4.1.3 **SECTION** 3/4" = 1'-0"



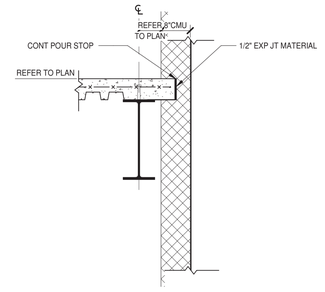
13 S2.2.1 S4.1.3 **SECTION** 3/4" = 1'-0"



9 S2.1.1 S4.1.3 **SECTION** 3/4" = 1'-0"



5 S2.3.1 S4.1.3 **SECTION** 3/4" = 1'-0"



1 S2.1.1 S4.1.3 **SECTION** 3/4" = 1'-0"

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NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: 05/22/2019
REVISIONS	
DATE	DESCRIPTION

FRAMING SECTIONS

S4.1.3

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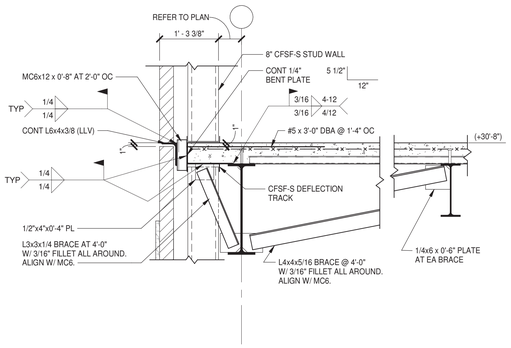
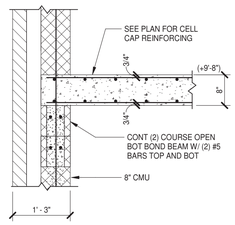
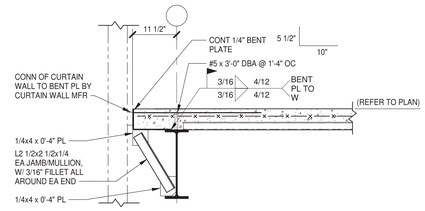


11 SECTION S2.2.1 | S4.1.4 — 3/4" = 1'-0"



7 SECTION S2.1.1 | S4.1.4 — 3/4" = 1'-0"



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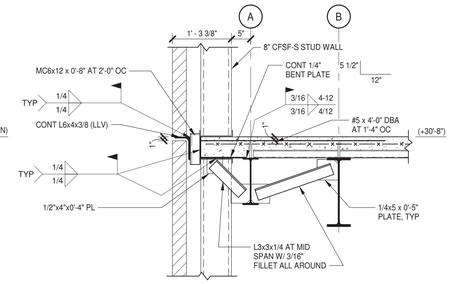
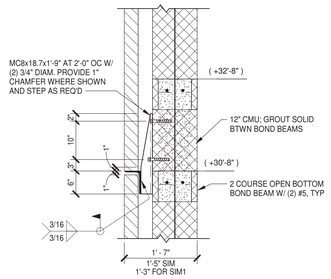
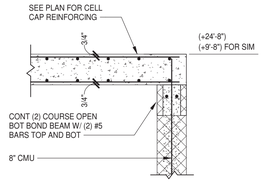


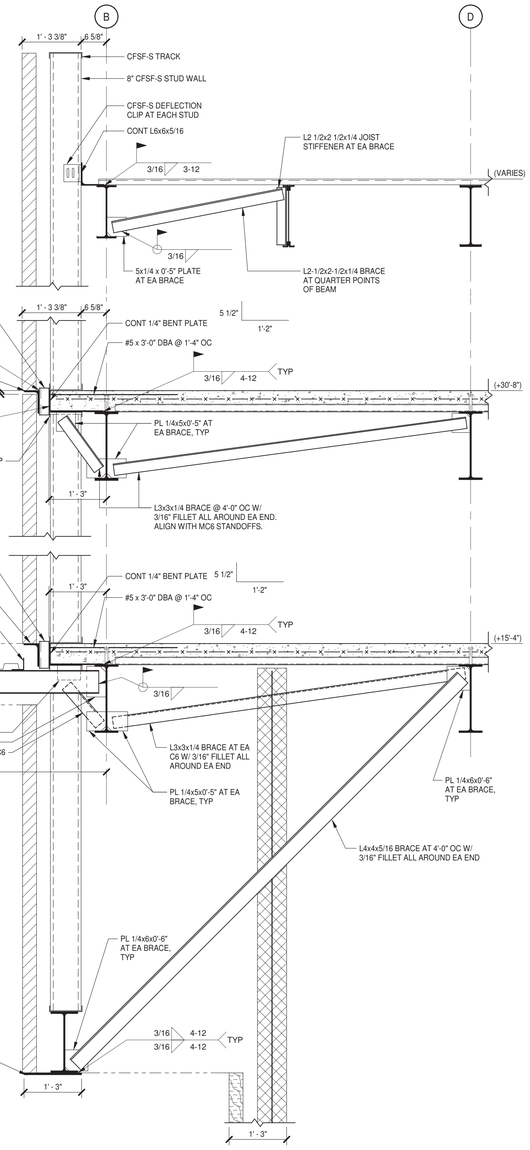
2 SECTION S2.2.1 | S4.1.4 — 3/4" = 1'-0"



10 SECTION S2.2.1 | S4.1.4 — 3/4" = 1'-0"



6 SECTION S2.1.1 | S4.1.4 — 3/4" = 1'-0"



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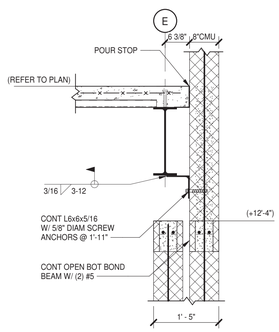

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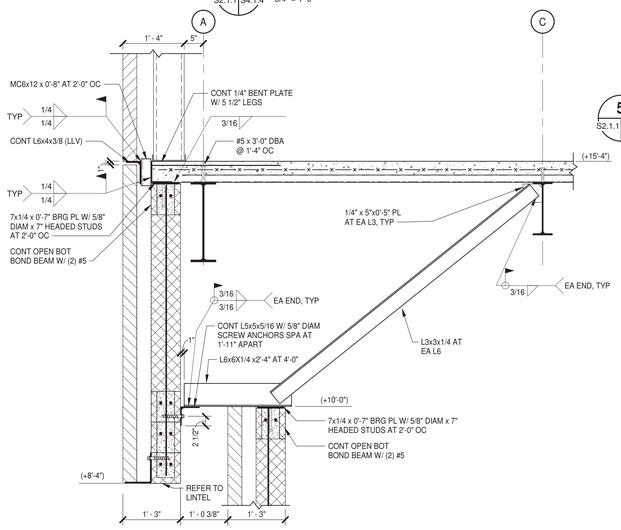
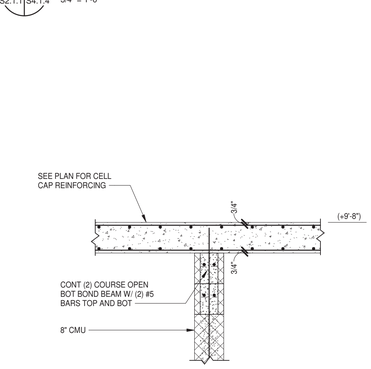


8 SECTION S2.1.1 | S4.1.4 — 3/4" = 1'-0"



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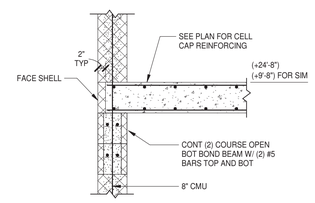

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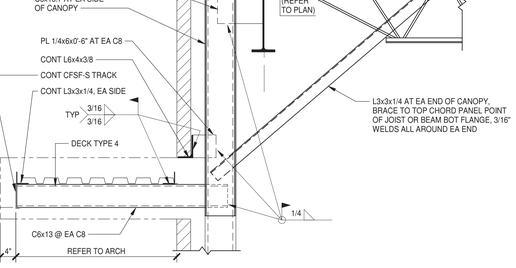

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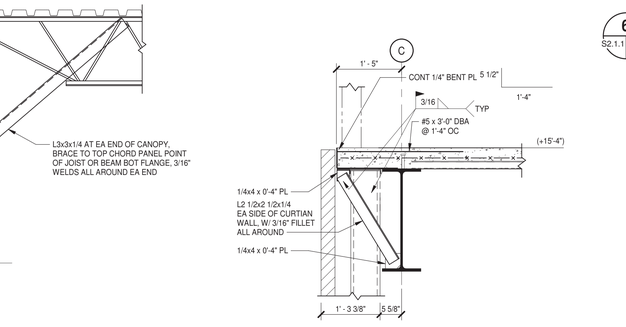

9 SECTION S2.1.1 | S4.1.4 — 3/4" = 1'-0"

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12/7/2018 NORTH CAROLINA PROFESSIONAL (-0'-0") EXIT SEAL 035434 ENGINEER

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	05/22/2019

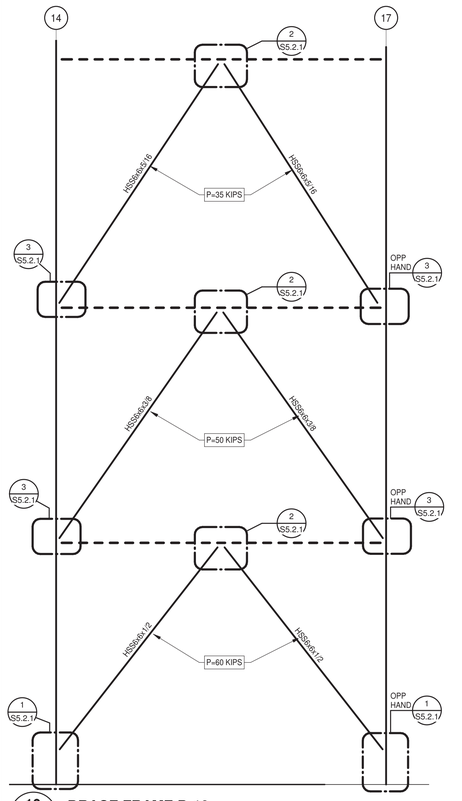
REVISIONS

DATE	DESCRIPTION

FRAMING SECTIONS

S4.1.4

5/22/2019 12:09:49 PM



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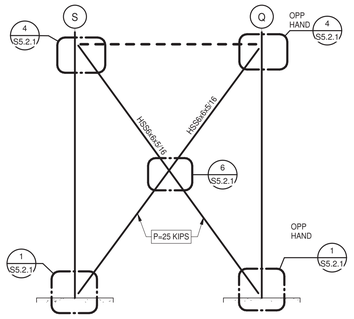
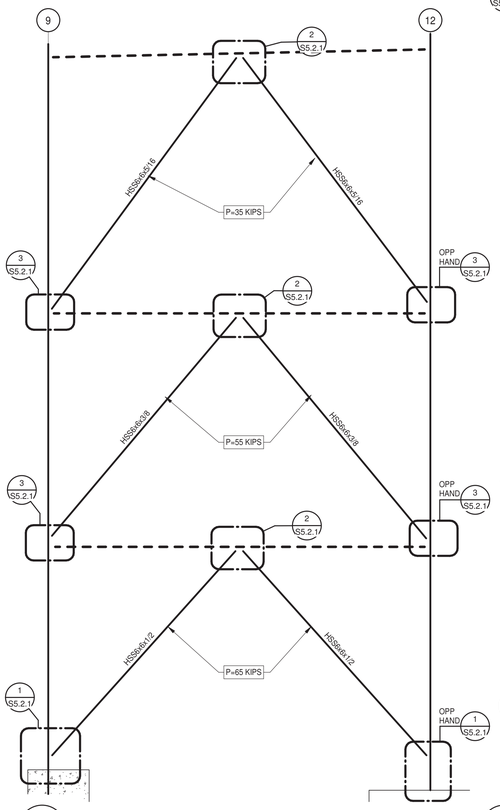
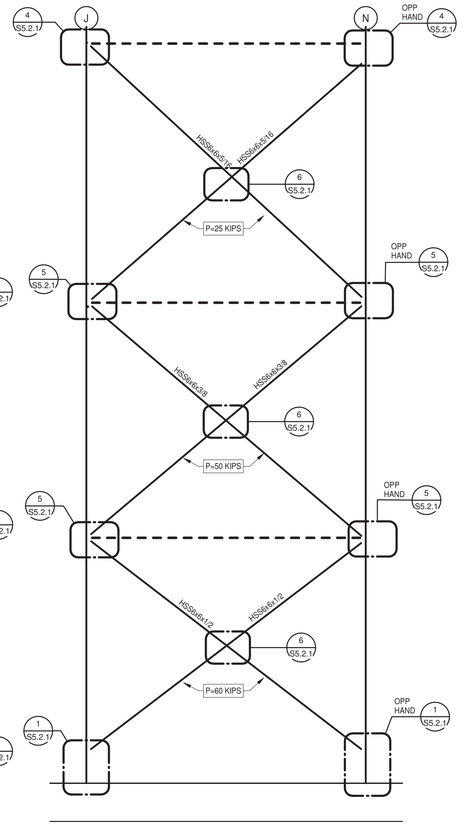
S2.1.1 S5.1.1 1/4" = 1'-0"



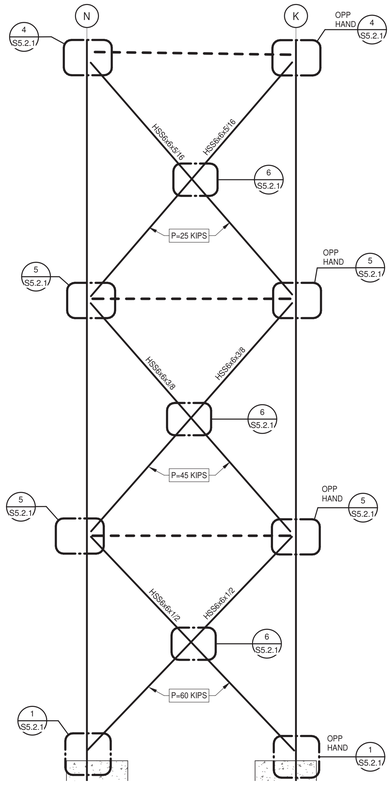
8 BRACE FRAME B-8
S2.1.1 S5.1.1 1/4" = 1'-0"



6 BRACE FRAME B-6
S2.1.1 S5.1.1 1/4" = 1'-0"



4 BRACE FRAME B-4
S2.1.1 S5.1.1 1/4" = 1'-0"



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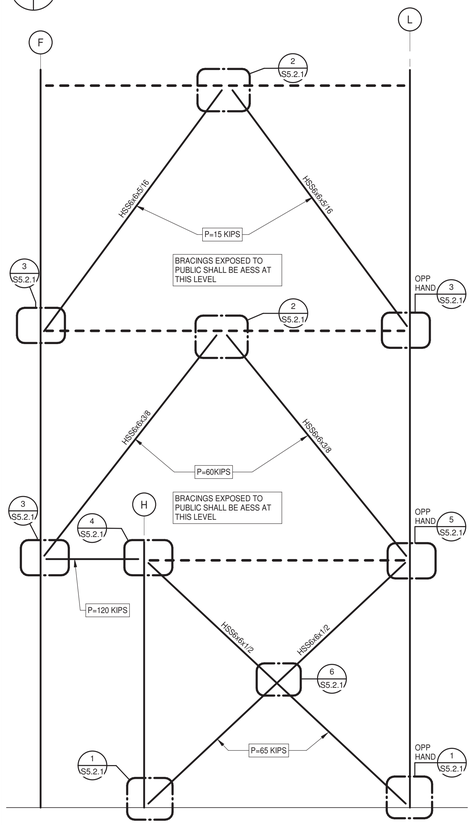
S2.1.1 S5.1.1 1/4" = 1'-0"



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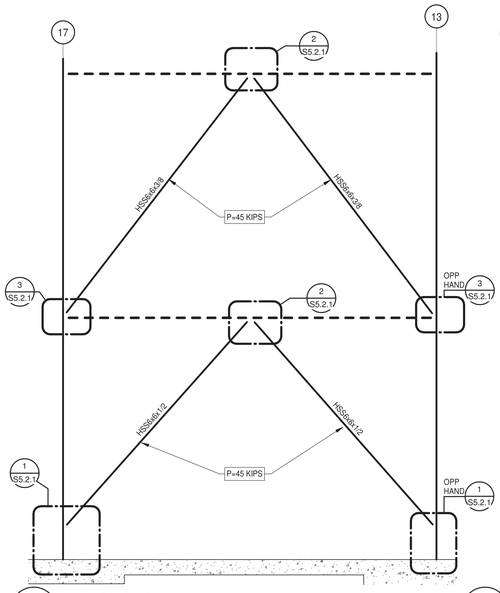
S2.1.1 S5.1.1 1/4" = 1'-0"



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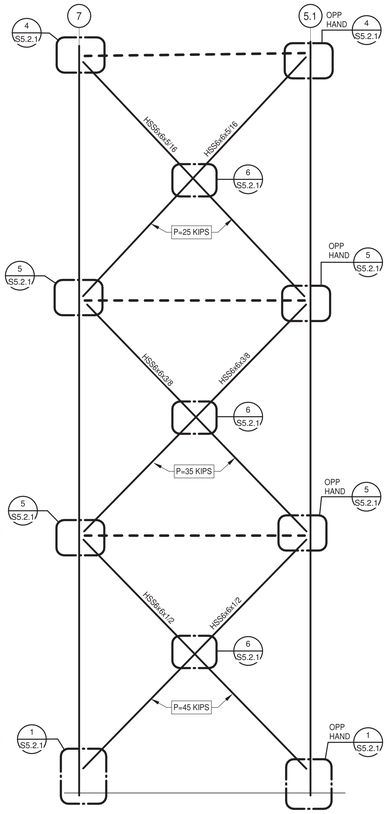
S2.1.1 S5.1.1 1/4" = 1'-0"



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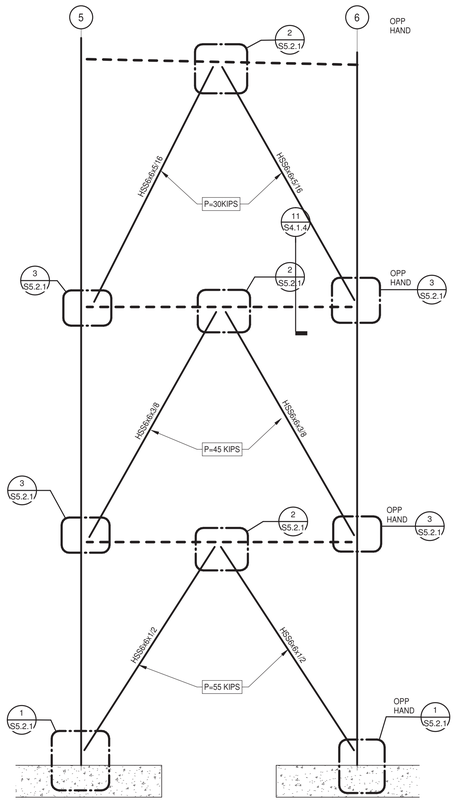

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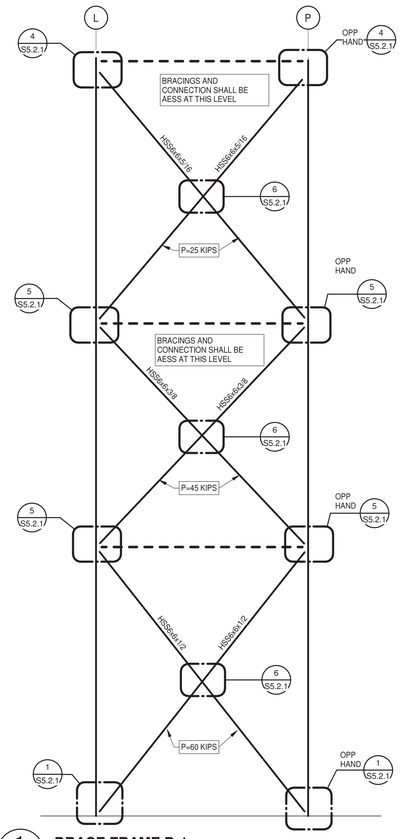

1 BRACE FRAME B-1
S2.1.1 S5.1.1 1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 035434 ENGINEER STRUCTURAL CODE

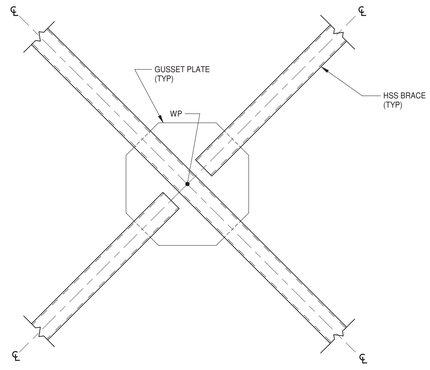
DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

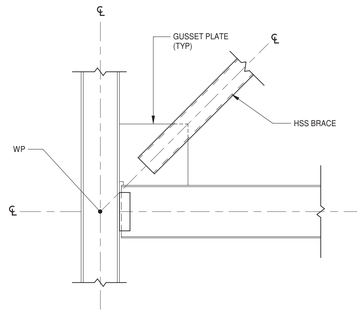
PROJECT NO: 571990	DATE: 05/22/2019
REVISIONS	
DATE	DESCRIPTION

BRACED FRAME ELEVATIONS

S5.1.1



6 DETAIL
S5.1.1 S5.2.1 3/4" = 1'-0"



3 DETAIL
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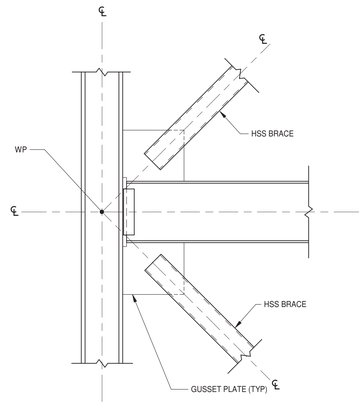
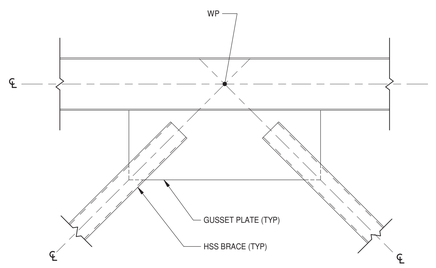
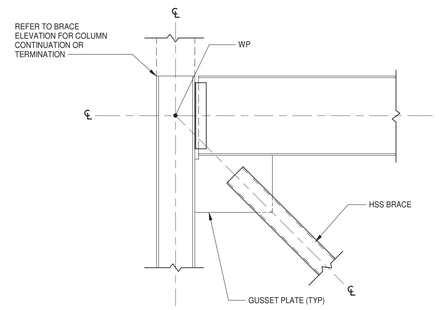


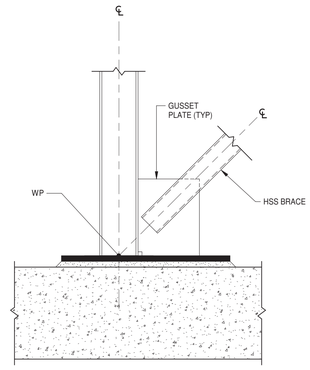
5 DETAIL
S5.1.1 S5.2.1 3/4" = 1'-0"



2 DETAIL
S5.1.1 S5.2.1 3/4" = 1'-0"



4 DETAIL
S5.1.1 S5.2.1 3/4" = 1'-0"



1 DETAIL
S5.1.1 S5.2.1 3/4" = 1'-0"

DELEGATED DESIGN CONNECTION NOTES

1. DESIGN OF ALL BRACING CONNECTIONS SHALL BE PROVIDED BY THE FABRICATOR'S ENGINEER.
2. THE UNIFORM FORCE METHOD SHALL BE USED TO DESIGN BRACING CONNECTIONS.
3. DESIGN CALCULATIONS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA, SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
4. FABRICATOR SHALL REVIEW SHOP DRAWINGS FOR COORDINATION WITH CONNECTION DESIGN CALCULATIONS PRIOR TO SUBMITTING TO THE ARCHITECT AND SER FOR REVIEW.
5. BRACING LOADS INDICATED ON FRAME ELEVATIONS ARE UNFACTORED LOADS USING ASD DESIGN METHODOLOGY. BRACING LOADS SHALL BE CONSIDERED TO BE BOTH TENSION AND COMPRESSION.

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NORTH CAROLINA PROFESSIONAL SEAL 035434 ENGINEER SCOTT M. COOKE

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: 05/22/2019
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BRACED FRAME DETAILS

S5.2.1

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ABBREVIATIONS

@	AT	EX	EXISTING	OPP	OPPOSITE
AAV	AIR ADMITTANCE VALVE	EXP	EXPANSION	OSD	OPEN SITE DRAIN
ABV	ABOVE	FCO	FLOOR CLEANOUT	PC	PRECAST
ADJ	ADJUSTABLE	FD	FLOOR DRAIN	PCF	POUNDS PER CUBIT FOOT
ADNL	ADDITIONAL	FDC	FIRE DEPARTMENT CONNECTION	PD	PUMP DISCHARGE
AFF	ABOVE FINISHED FLOOR	FDN	FOUNDATION DRAIN	PLUMB	PLUMBING
AFG	ABOVE FINISHED GRADE	FF	FINISHED FLOOR	PLYWD	PLYWOOD
AHU	AIR HANDLING UNIT	FFE	FINISHED FLOOR ELEVATION	POLY	POLYETHYLENE
ALT	ALTERNATE	FG	FINISHED GRADE	PPT	PRESSURE PRESERVATIVE TREATED
ALUM	ALUMINUM	FH	FIRE HYDRANT	PREFAB	PREFABRICATE(D)
AP	ACCESS PANEL	FHC	FIRE HOSE CABINET	PROJ	PROJECT
APPR	APPROXIMATE	FHS	FIRE HOSE STATION	PSF	POUNDS PER SQUARE FOOT
ARCH	ARCHITECTURAL	FHVC	FIRE HOSE VALVE CABINET	PSI	POUNDS PER SQUARE INCH
AUTO	AUTOMATIC	FIX	FIXTURE	PV	PROPANE VENT
AVG	AVERAGE	FLR	FLOOR	PVC	POLYVINYL CHLORIDE
BFF	BELOW FINISHED FLOOR	FLSHG	FLASHING	PVMT	PAVEMENT
BFG	BELOW FINISHED GRADE	FM	FORCED MAIN (SUMP PUMP)	R	RISER
BLDG	BUILDING	FOR	FUEL OIL RETURN	RAD	RADIUS
BO	BOTTOM OF	FOS	FUEL OIL SUPPLY	RD	ROOF DRAIN (BOTTOM OUTLET)
BOT	BOTTOM	FOV	FUEL OIL VENT	RDS	ROOF DRAIN (SIDE OUTLET)
BSMT	BASEMENT	FS	FLOOR SINK	REF	REFERENCE
BTWN	BETWEEN	FT	FOOT OR FEET	REQD	REQUIRED
CA	COMPRESSED AIR	FVC	FIRE VALVE CABINET	REQMT	REQUIREMENTS
CI	CAST IRON	G	NATURAL GAS	RL	RAIN LEADER
CIP	CAST-IN-PLACE CONCRETE	GCO	GRADE CLEANOUT	RM	ROOM
CL	CENTERLINE	GWH	GAS WATER HEATER	RO	ROUGH OPENING
CLG	CEILING	HB	HOSE BIBB	S	SOUTH
CLR	CLEAR	HORIZ	HORIZONTAL	SAN	SANITARY
CMP	CORRUGATED METAL PIPE	HP	HORSEPOWER	SCH	SCHEDULE
CNTR	COUNTER	HTG	HEATING	SD	STORM DRAIN
CO	CLEANOUT	HW	HOT WATER	SDN	STORM DRAIN NOZZLE
COL	COLUMN	HWR	HOT WATER RETURN	SHT	SHEET
CONC	CONCRETE	HWS	HOT WATER SUPPLY	SIM	SIMILAR
CONDS	CONDENSATE	ID	INSIDE DIAMETER	SLT	SEALANT
CONSTR	CONSTRUCT(ION)	IN	INCH	SOG	SLAB ON GRADE
CONT	CONTINUATION	INSUL	INSULATE OR INSULATION	SP	SUMP PUMP
CONTR	CONTRACT(-OR)	INV	INVERT	SPEC	SPECIFICATION
CORR	CORRIDOR	JAN	JANITOR	SPR	SPRINKLER
CP	CIRCULATING PUMP	KIT	KITCHEN	SQ	SQUARE
CR	CLASSROOM	KW	KITCHEN WASTE	SRD	SECONDARY ROOF DRAIN
CT	COOLING TOWER	LAB	LABORATORY	SS	STAINLESS STEEL
CU	COPPER	LAV	LAVATORY	SSD	SECONDARY STORM DRAIN
CU FT	CUBIC FEET	LBS	POUNDS	STD	STANDARD
CU YD	CUBIC YARD	LF	LINEAR FOOT (FEET)	STL	STEEL
CW	COLD WATER	LP	PROPANE	STOR	STORAGE
DB	DRY BULB	LPV	PROPANE VENT	STRUCT	STRUCTURAL
DCW	DOMESTIC COLD WATER	MATL	MATERIAL	SUSP	SUSPENDED
DEMO	DEMOLISH OR DEMOLITION	MAX	MAXIMUM	THK	THICK(-NESS)
DF	DRINKING FOUNTAIN	MECH	MECHANICAL	TLT	TOILET
DHR	DOMESTIC HOT WATER RETURN	MED	MEDIUM	TOSL	TOP OF SLAB
DHR(140)	DOMESTIC HOT WATER RETURN (140°)	MFR	MANUFACTURER	TW	DOMESTIC TEMPERED WATER (90° F)
DHW	DOMESTIC HOT WATER	MH	MANHOLE	TYP	TYPICAL
DHW(140)	DOMESTIC HOT WATER (140°)	MIN	MINIMUM	UG	UNDERGROUND
DI	DROP INLET	MISC	MISCELLANEOUS	UNO	UNLESS NOTED (INDICATED) OTHERWISE
DIA	DIAMETER	MTD	MOUNTED	V	VENT
DIP	DUCTILE IRON PIPE	N	NORTH	VAC	VACUUM
DN	DOWN	N/A	NOT APPLICABLE/AVAILABLE	VB	VACUUM BREAKER
DS	DOWNSPOUT	NC	NORMALLY CLOSED	VERT	VERTICAL
DT	DRAIN TILE	NG	NATURAL GAS	VTR	VENT THROUGH ROOF
DTL	DETAIL	NGV	NATURAL GAS VENT	W	WEST
DTW	DOMESTIC TEMPERED WATER	NIC	NOT IN CONTRACT	W/	WITH
DWG	DRAWING	NO	NORMALLY OPEN	W/O	WITHOUT
E	EAST	NO., (#)	NUMBER	WB	WASHER BOX
ELEC	ELECTRICAL	NOM	NOMINAL	WC	WATER CLOSET
EPBD	ELECTRICAL PANELBOARD	OC	ON CENTER	WCO	WALL CLEANOUT
EQ	EQUAL	OD	OUTSIDE DIAMETER	WHA-X	WATER HAMMER ARRESTER WITH SIZE
EQUIP	EQUIPMENT	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WSHP	WATER SOURCE HEAT PUMP
ETR	EXISTING TO REMAIN	OFF	OFFICE	WWF	WELDED WIRE FABRIC
EWC	ELECTRIC WATER COOLER	OH	OVERHEAD	WWM	WELDED WIRE MESH
EWH	ELECTRIC WATER HEATER	OPNG	OPENING	XFMR	TRANSFORMER

GRAPHICS SYMBOLS LEGEND

- X" XXX — PIPE WITH SIZE AND SERVICE
- FLOW IN DIRECTION OF ARROW
- 1/8" FT — PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
- PIPE CAP
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- UNION
- CONCENTRIC PIPE REDUCTION
- CO — END OF LINE CLEANOUT PLUG
- CO — FLOOR CLEANOUT
- WCO — WALL CLEANOUT
- CO (GCO) — YARD CLEANOUT (CLEANOUT TO GRADE)
- FD-1 — FLOOR DRAIN WITH TAG
- FS-1 — FLOOR SINK WITH TAG
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER
- A — WATER HAMMER ARRESTOR (PLUMBING & DRAINAGE INSTITUTE SIZE INDICATED)
- FS — FLOW SWITCH
- TEMPERATURE/PRESSURE PLUG
- VALVE
- VALVE IN RISER
- GAS COCK
- VENTURI FLOW METER
- MANUAL BALANCING VALVE
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- S — SOLENOID OPERATED VALVE
- T&P — TEMPERATURE AND PRESSURE RELIEF VALVE
- BACKWATER VALVE
- HOSE BIBB OR WALL HYDRANT
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- PUMP

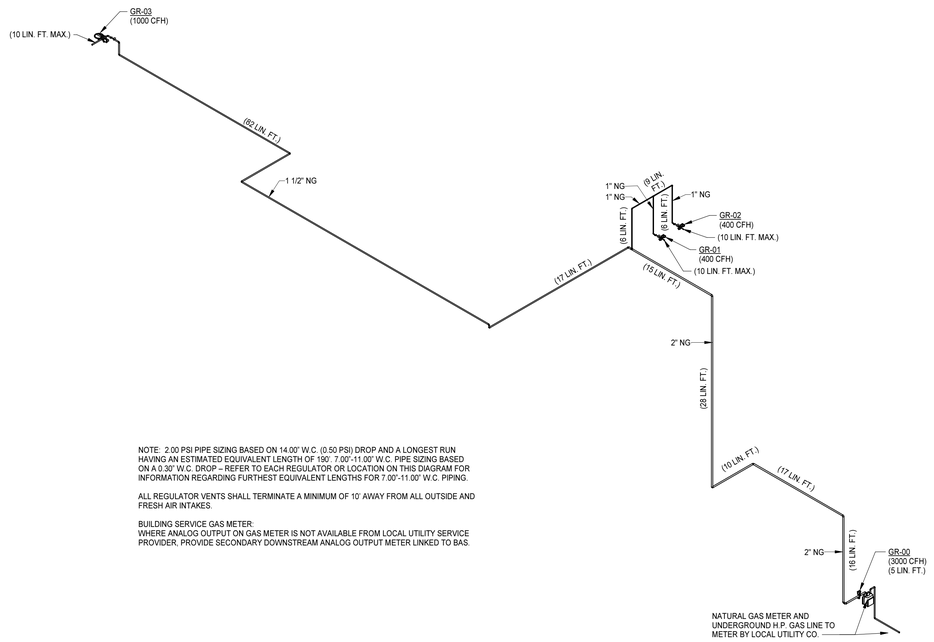
- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- 30 — KEYNOTE
- 8 — STRUCTURAL GRID LINE WITH DESIGNATION
- A123 — **SPACE IDENTIFICATION TAG**: SPACE NUMBER; BUILDING AREA (WHEN USED)
- AHU-02 — **EQUIPMENT IDENTIFICATION TAG**: EQUIPMENT NUMBER; UNIT DESIGNATION
- **SECTION WHERE CUT**: A / P6.1 — SECTION LETTER; DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN WHERE CUT**: 1 / P6.1 — ENLARGED PLAN NUMBER; DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 / P6.1 — DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED
- **SANITARY RISER TAG**: S1 / P6.1 — SANITARY RISER IDENTIFIER; DRAWING WHERE SANITARY RISER IS TAGGED
- **DOMESTIC RISER TAG**: D1 / P6.1 — DOMESTIC RISER IDENTIFIER; DRAWING WHERE SANITARY RISER IS TAGGED

1 DETAIL TITLE — 1/4"=1'-0" (P2.2, P2.3, P2.4; P6.2)
- DETAIL NUMBER
- DRAWING WHERE DETAIL IS INDICATED
- DRAWING WHERE DETAIL IS CUT
- ADDITIONAL DRAWING REFERENCES

S1 SANITARY RISER DIAGRAM — 1/4"=1'-0" (P2.2, P2.3, P2.4; P4.2)
- SANITARY RISER DIAGRAM IDENTIFIER
- DRAWING WHERE SANITARY RISER IS INDICATED
- DRAWING WHERE SANITARY RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

D1 DOMESTIC RISER DIAGRAM — 1/4"=1'-0" (P2.2, P2.3, P2.4; P5.2)
- DOMESTIC RISER DIAGRAM IDENTIFIER
- DRAWING WHERE DOMESTIC RISER IS INDICATED
- DRAWING WHERE DOMESTIC RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

G1 FUEL GAS RISER DIAGRAM — 1/4"=1'-0" (P2.2, P2.3, P2.4; P5.2)
- FUEL GAS RISER DIAGRAM IDENTIFIER
- DRAWING WHERE FUEL GAS RISER IS INDICATED
- DRAWING WHERE FUEL GAS RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES



NATURAL GAS RISER
NO SCALE

NOTE: 2.00 PSI PIPE SIZING BASED ON 14.00" W.C. (0.50 PSI) DROP AND A LONGEST RUN HAVING AN ESTIMATED EQUIVALENT LENGTH OF 190'. 7.00"-11.00" W.C. PIPE SIZING BASED ON A 0.30" W.C. DROP – REFER TO EACH REGULATOR OR LOCATION ON THIS DIAGRAM FOR INFORMATION REGARDING FURTHEST EQUIVALENT LENGTHS FOR 7.00"-11.00" W.C. PIPING.

ALL REGULATOR VENTS SHALL TERMINATE A MINIMUM OF 10' AWAY FROM ALL OUTSIDE AND FRESH AIR INTAKES.

BUILDING SERVICE GAS METER:
WHERE ANALOG OUTPUT ON GAS METER IS NOT AVAILABLE FROM LOCAL UTILITY SERVICE PROVIDER, PROVIDE SECONDARY DOWNSTREAM ANALOG OUTPUT METER LINKED TO BAS.

CONNECTED GAS LOAD SCHEDULE

REGULATOR TAG	DESCRIPTION	LOCATION	INPUT (CFH)
GR-00	MAIN GAS METER REGULATOR	OUTSIDE NE CORNER BLDG	3000
GR-01	BOILER REGULATOR	ROOF MECH ROOM	400
GR-02	BOILER REGULATOR	ROOF MECH ROOM	400
GR-03	ROOFTOP AHU REGULATOR	ROOF	1,000
		FUTURE LOAD >	1,200
TOTAL CONNECTED LOAD - (CFH)			3,000

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.

C. PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.

D. PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.

E. REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.

F. OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING AND FIXTURES.

G. PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS

GENERAL DATA

PLUMBING GENERAL DATA

Item	Value
SERVICE SIZING	
INSTANTANEOUS DEMAND (GPM)	135
SUPPLY FIXTURE UNITS (SFU)	444
DRAINAGE FIXTURE UNITS (DFU)	192
STORM DRAINAGE	
TOTAL ROOF DRAINAGE (SQUARE FEET)	18333
WATER HEATERS	
NUMBER	3
HOT WATER REQUIRED	200 GAL
FUEL USED	ELEC

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NORTH CAROLINA PROFESSIONAL SEAL 033520 ENGINEER JUSTIN P. CARLSON
5 / 22 / 19

NEW DJ FACILITY
NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE:
571990	MAY 22, 2019

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LEGENDS, ABBREVIATIONS AND GENERAL NOTES

P0.1

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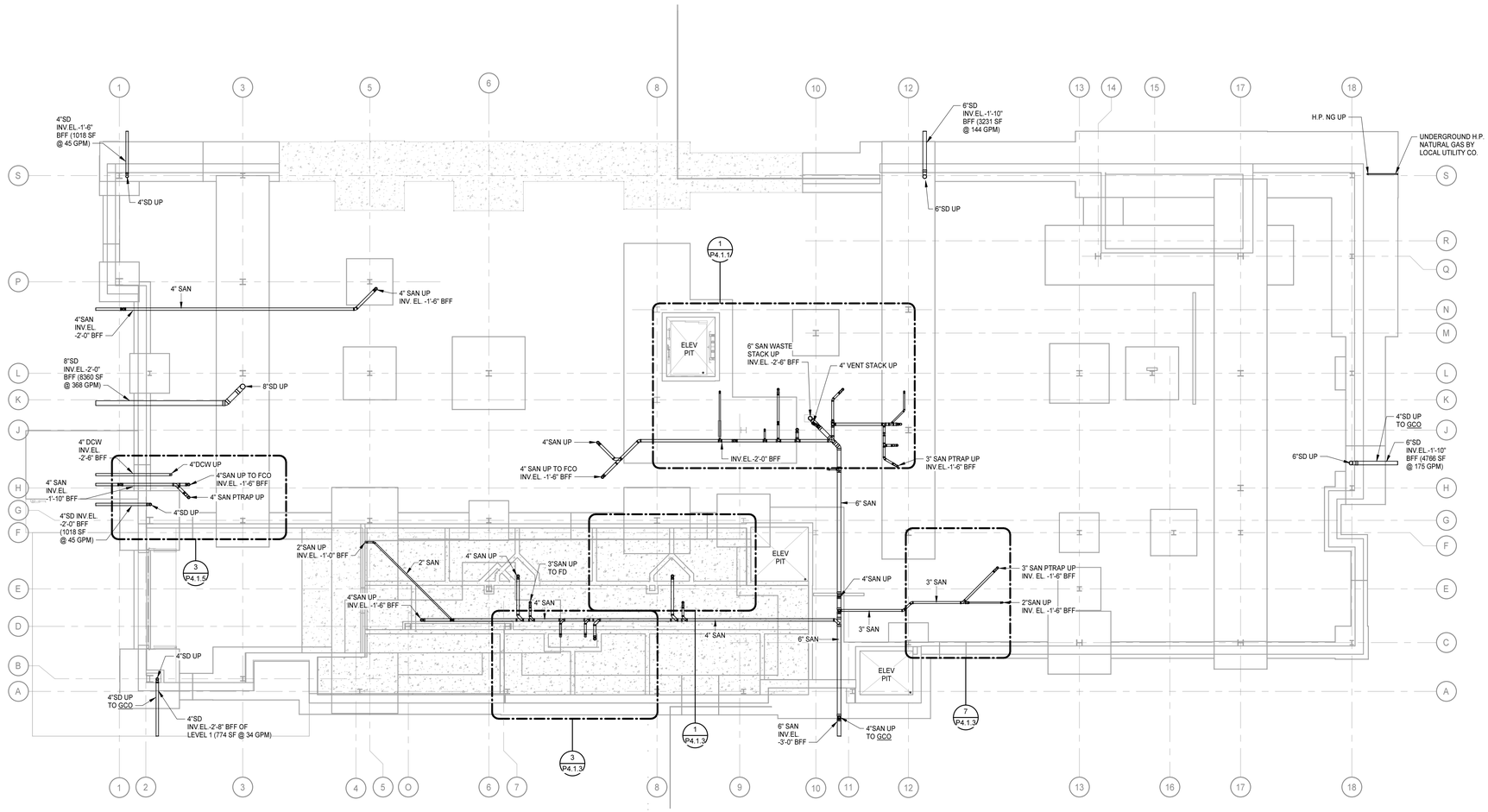

FOUNDATION PLAN - PLUMBING

1/8" = 1'-0"

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5/22/19

NEW DJ FACILITY

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FOUNDATION PLAN
- PLUMBING

0' 2' 4' 8' 16'
1/8" = 1'-0"

P2.0.1

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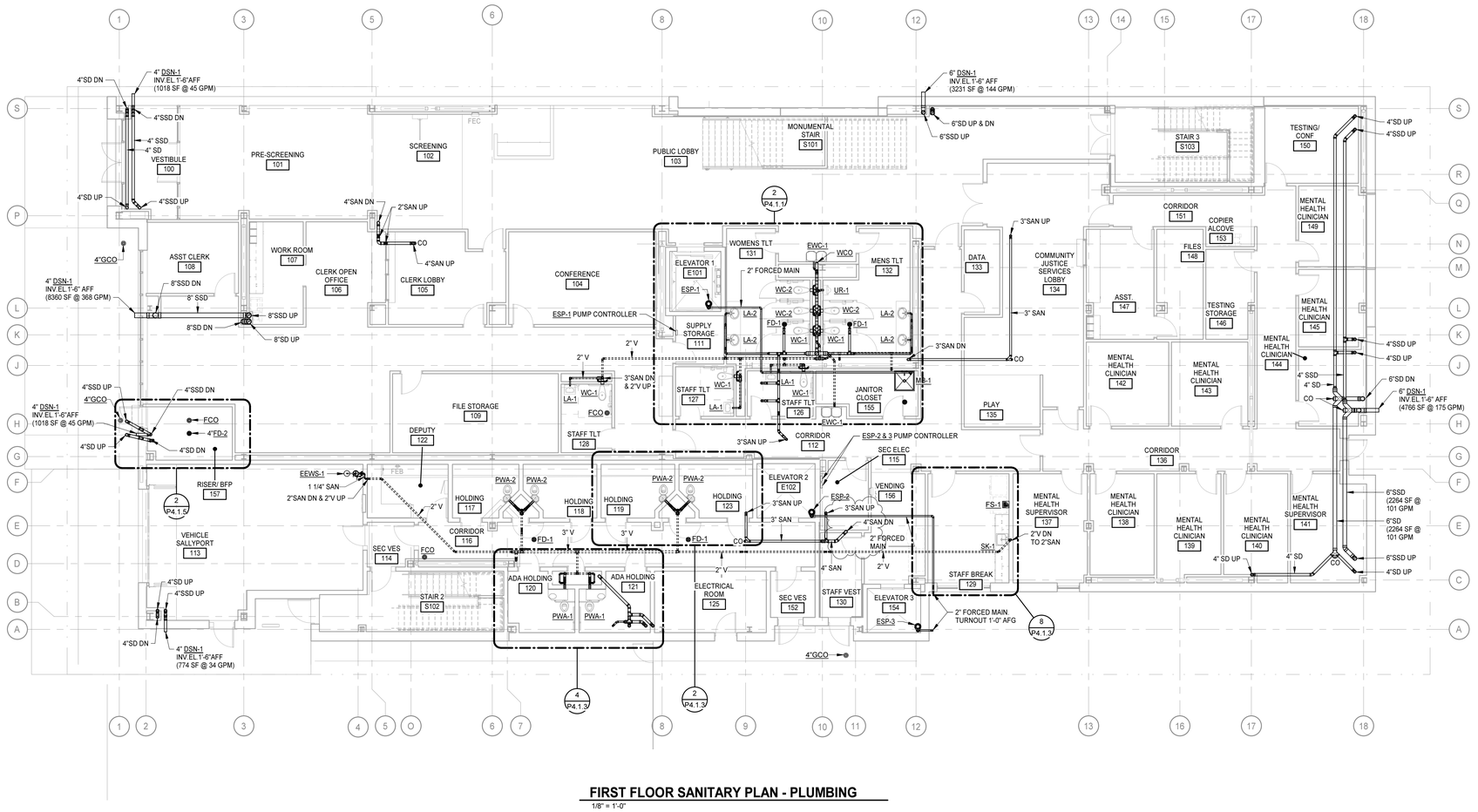

FIRST FLOOR SANITARY PLAN - PLUMBING

1/8" = 1'-0"

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Date 1	Revision 1

FIRST FLOOR SANITARY PLAN - PLUMBING

P2.1.1

0' 2' 4' 8' 16'
1/8" = 1'-0"

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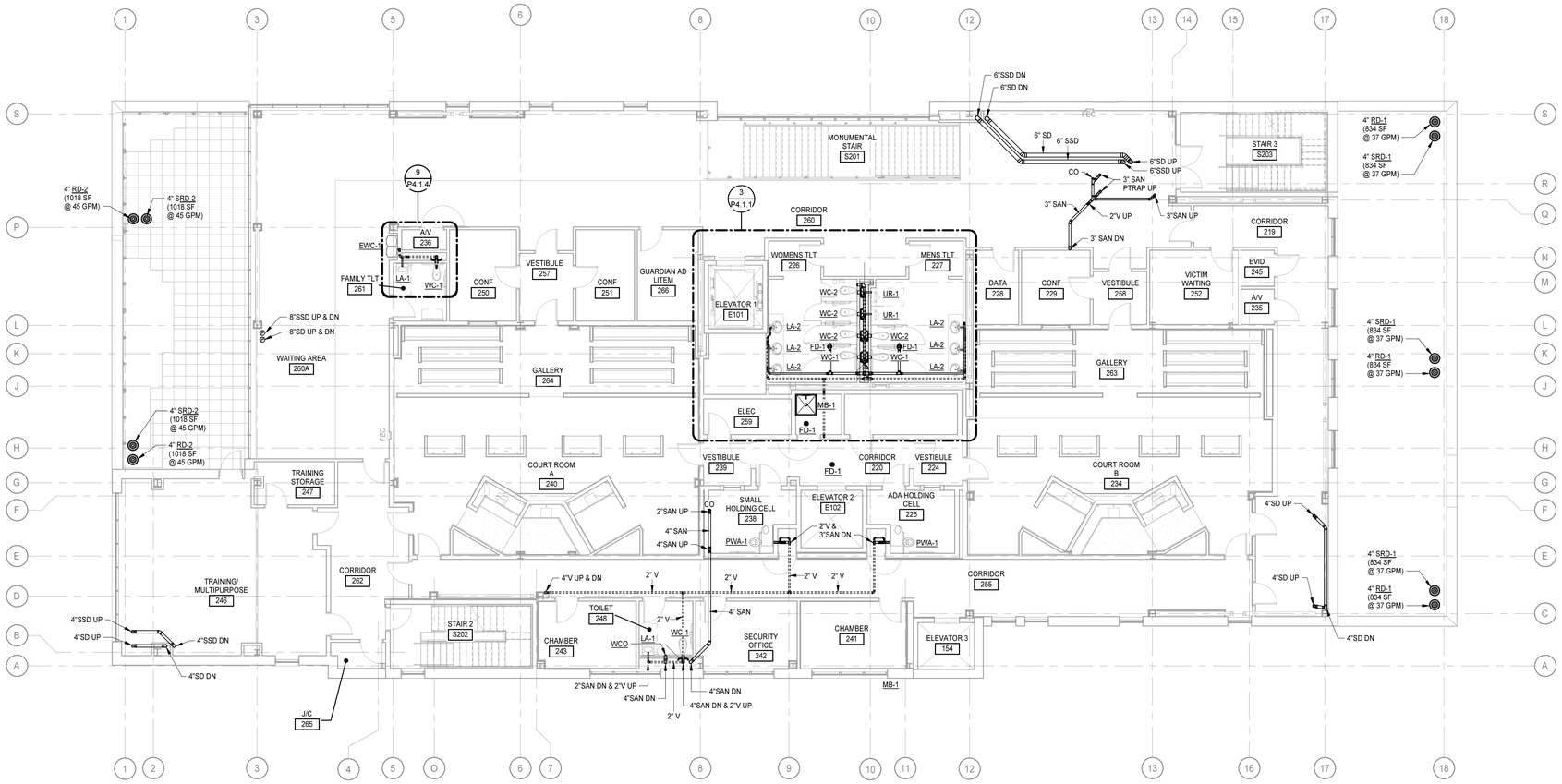

SECOND FLOOR SANITARY PLAN - PLUMBING

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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SECOND FLOOR SANITARY PLAN - PLUMBING

P2.1.2

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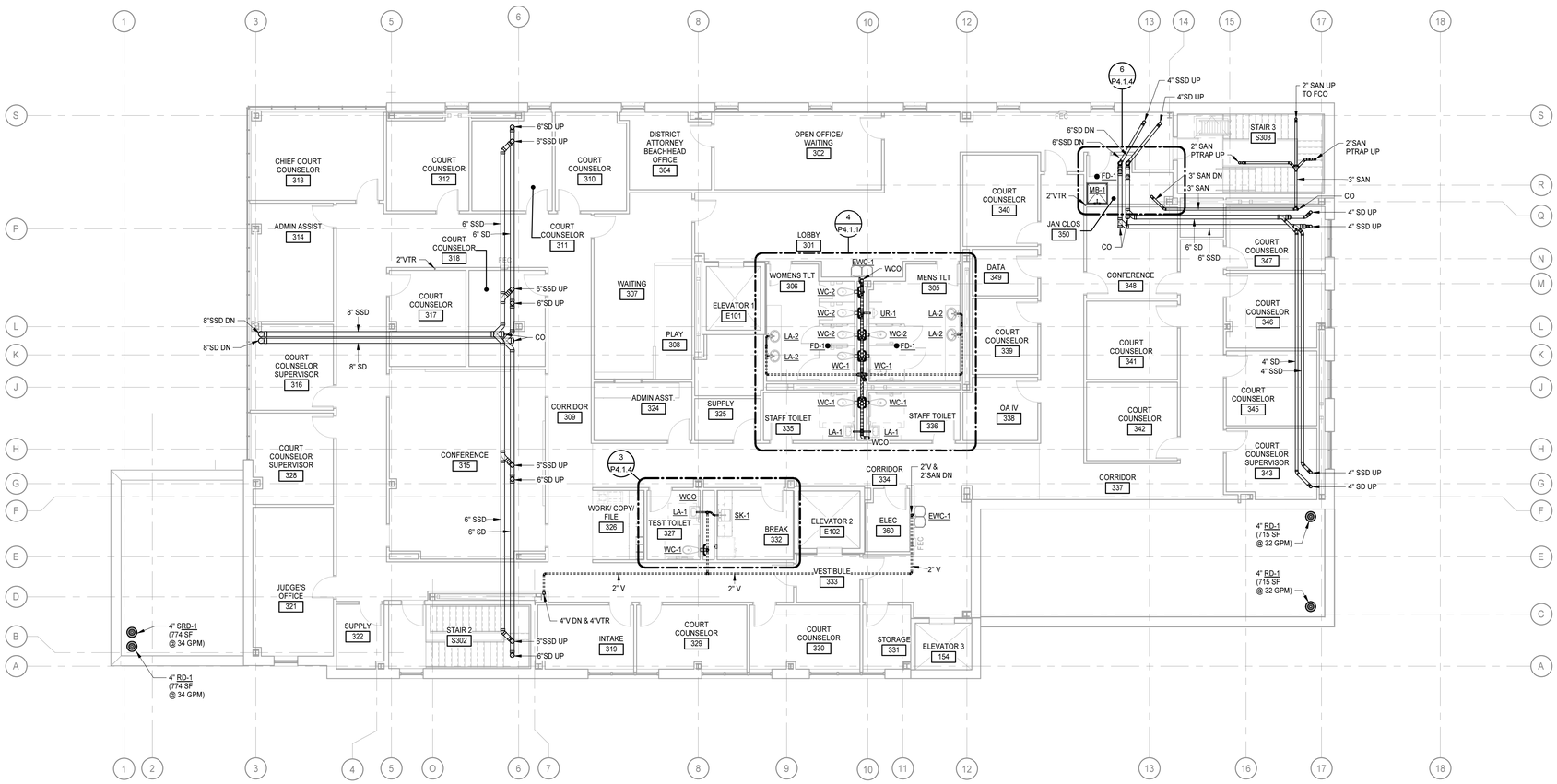

THIRD FLOOR SANITARY PLAN - PLUMBING

1/8" = 1'-0"

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THIRD FLOOR SANITARY PLAN - PLUMBING

P2.1.3

0' 2' 4' 8' 16'
1/8" = 1'-0"

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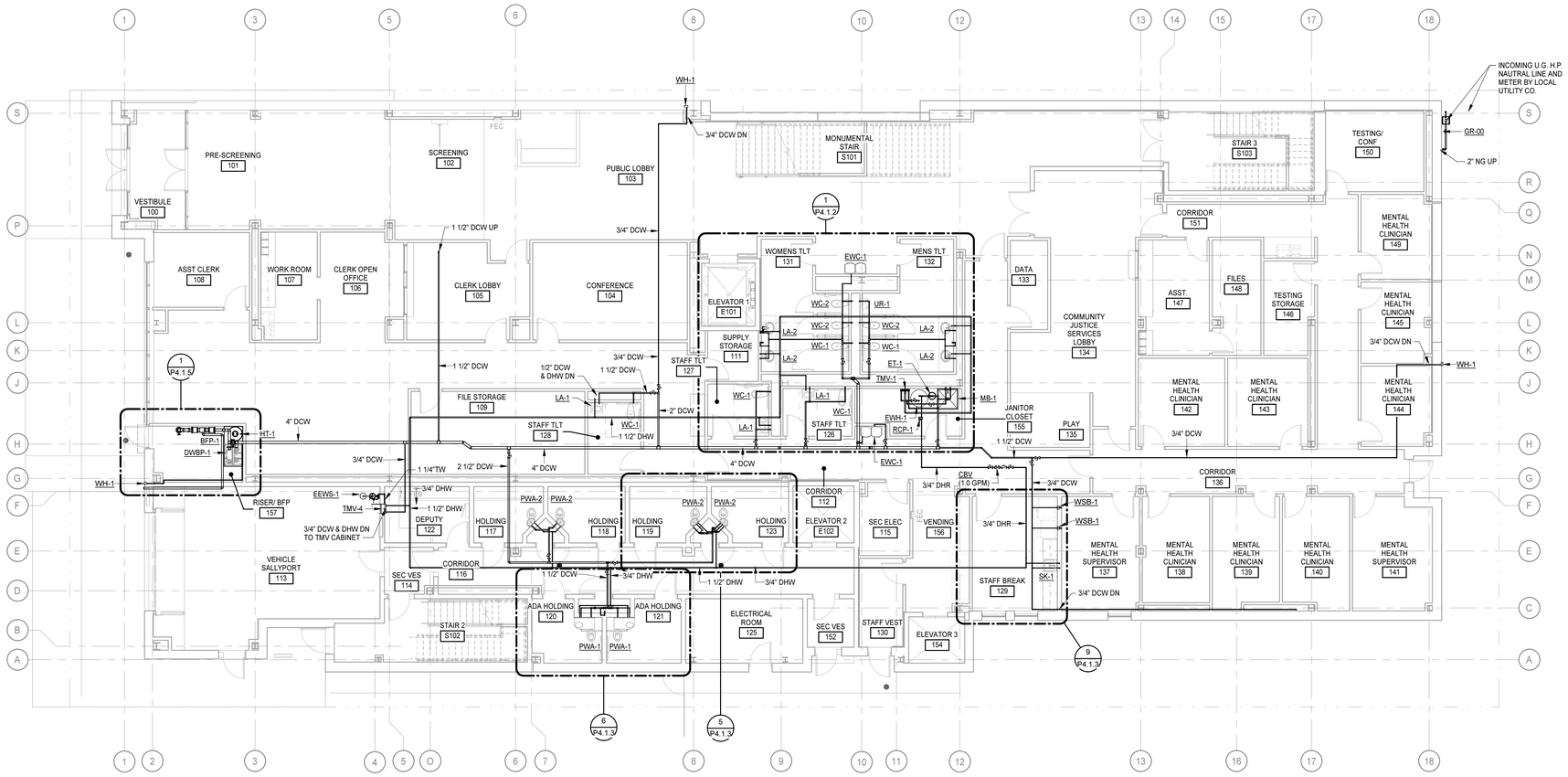

FIRST FLOOR DOMESTIC PLAN - PLUMBING

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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FIRST FLOOR DOMESTIC PLAN - PLUMBING

P2.2.1

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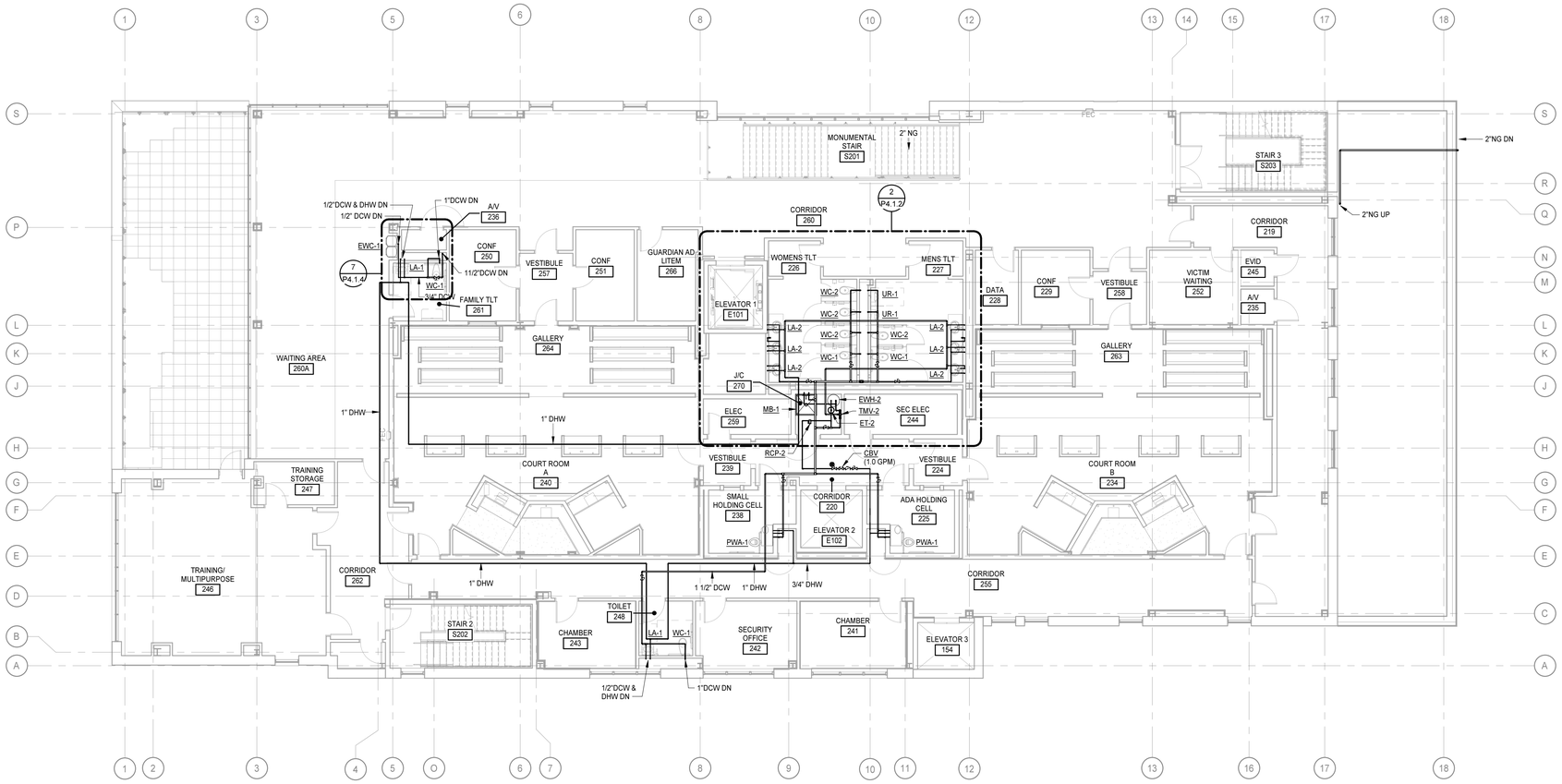

SECOND FLOOR DOMESTIC PLAN - PLUMBING

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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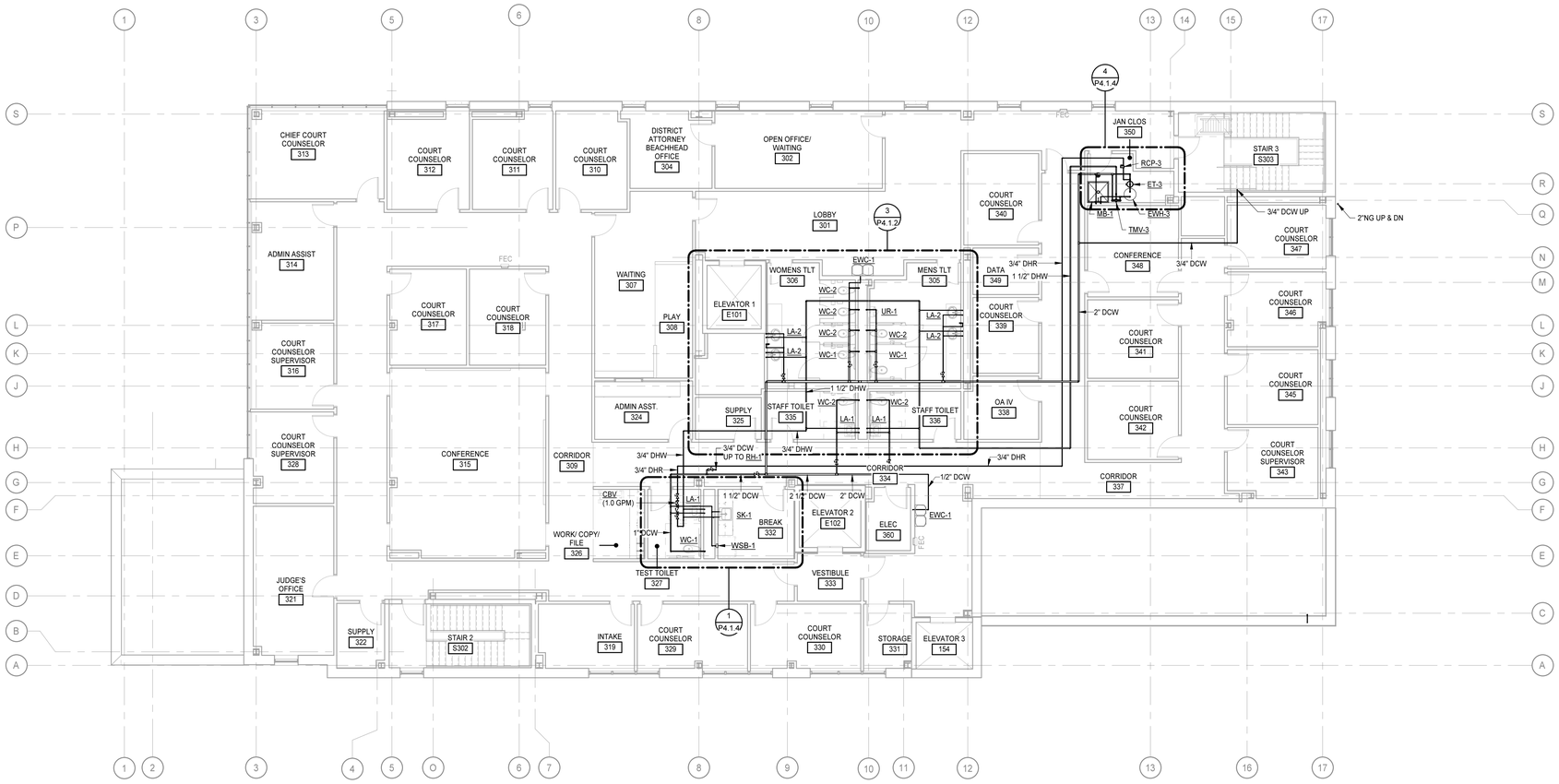
SECOND FLOOR DOMESTIC PLAN - PLUMBING

P2.2.2

5/22/2019 10:05:27 AM



THIRD FLOOR DOMESTIC PLAN - PLUMBING

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 033520 ENGINEER JUSTIN P. CARLSON
5 / 22 / 19

NEW DJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE:
571990	MAY 22, 2019

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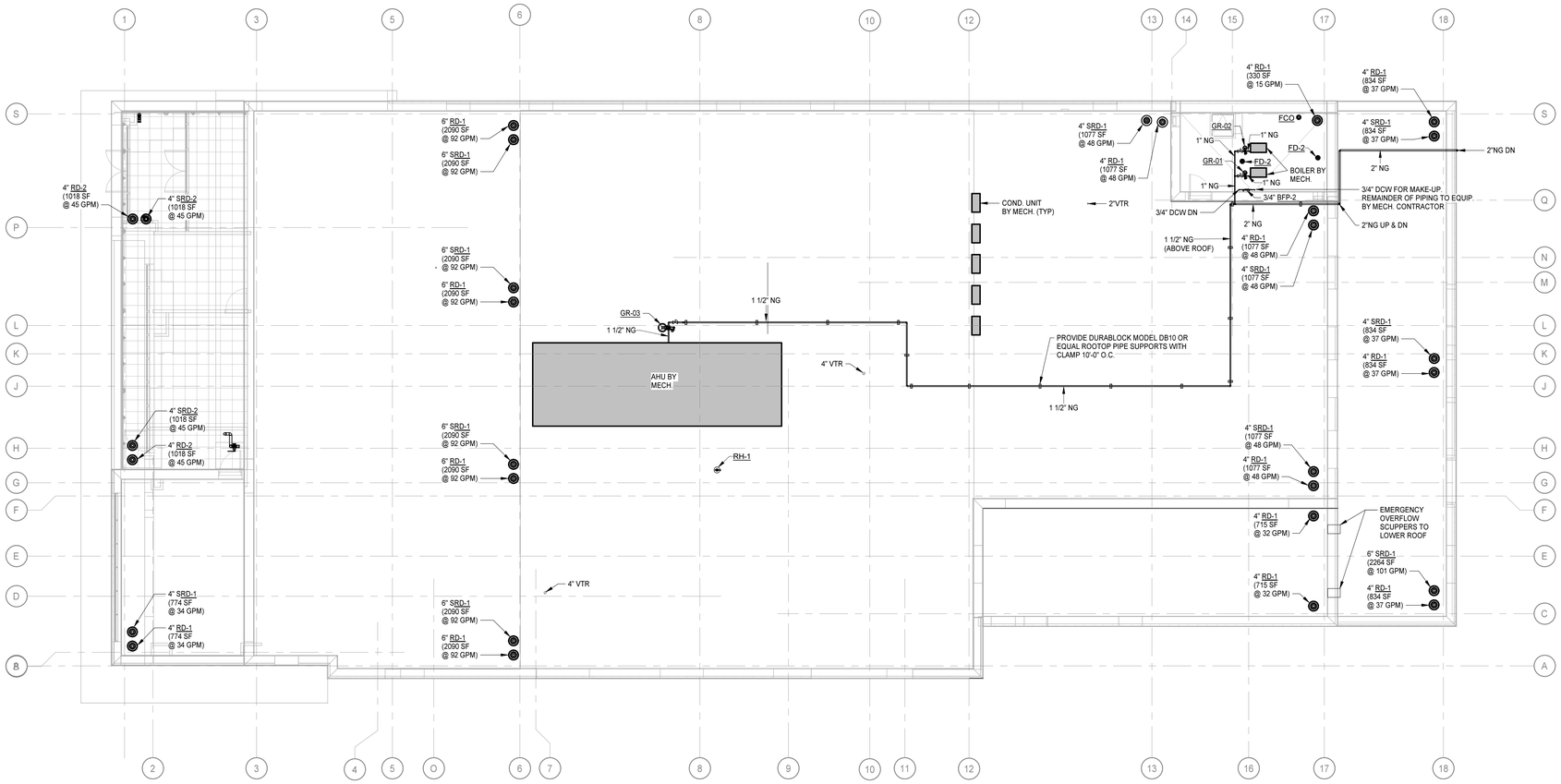
THIRD FLOOR DOMESTIC PLAN - PLUMBING

P2.2.3

0' 2' 4' 8' 16'
1/8" = 1'-0"

5/22/2019 10:05:29 AM



ROOF PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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5 / 22 / 19

NEW DJ FACILITY

NEW HANOVER COUNTY
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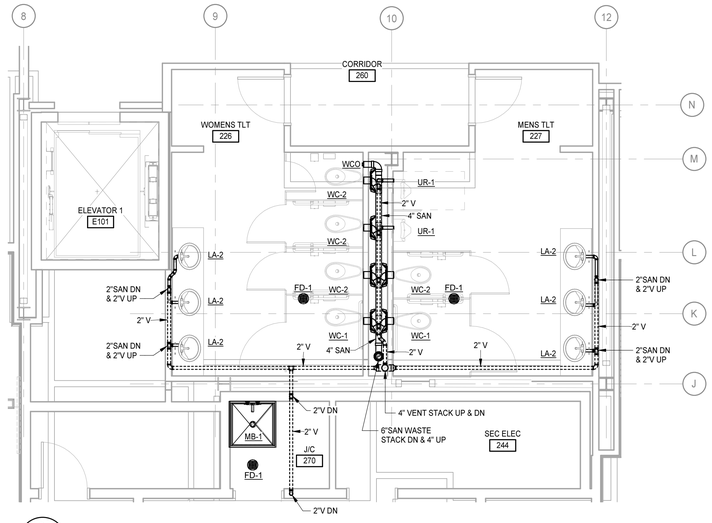
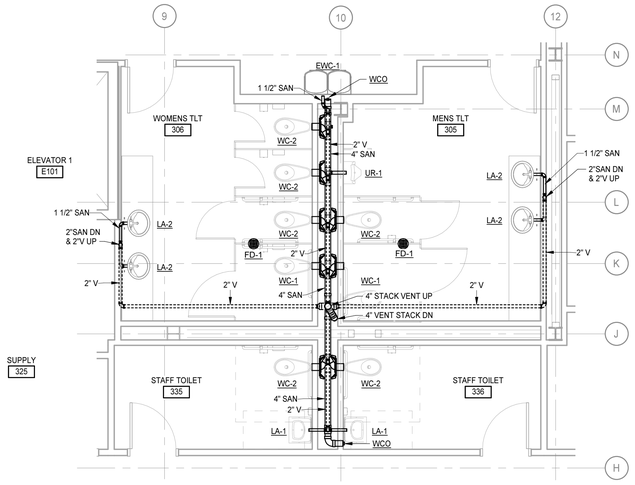
ROOF PLAN - PLUMBING

P2.3.1

5/22/2019 10:05:30 AM

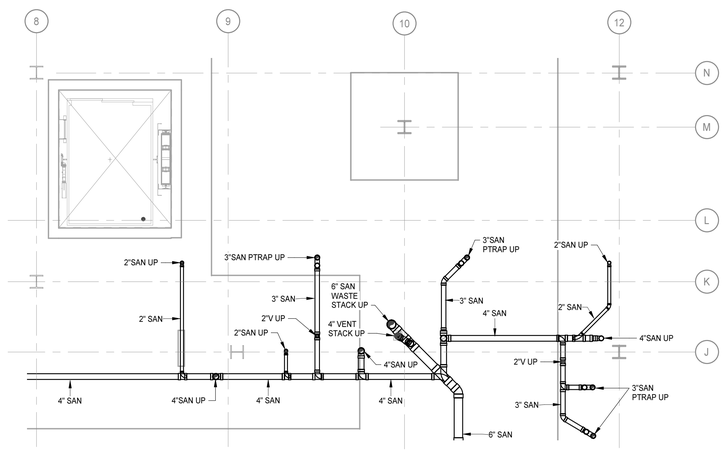


3 ENLARGED SECOND FLOOR SANITARY PLAN - GROUP & STAFF TOILETS
P2.1.2 P4.1.1 1/4" = 1'-0"

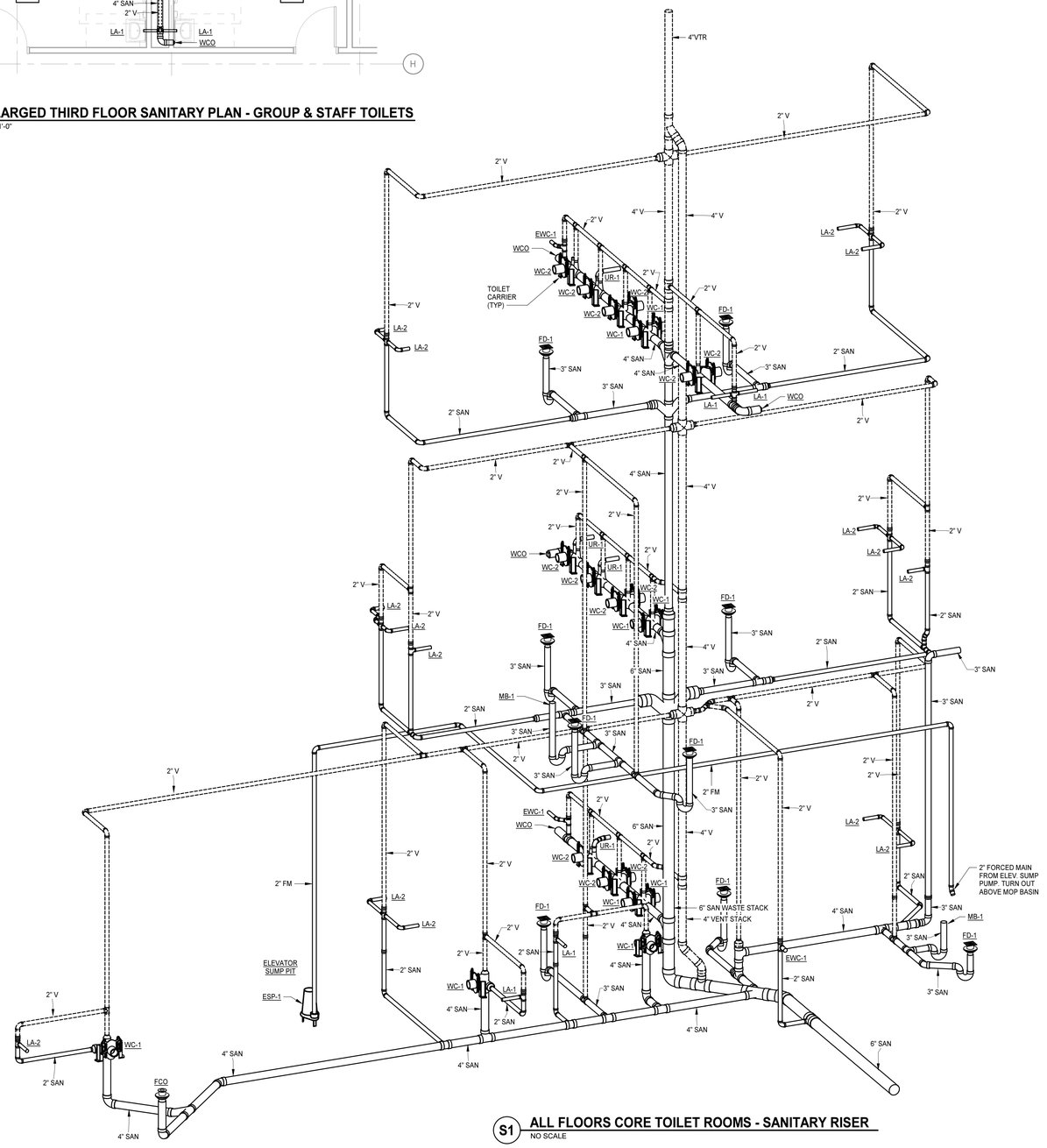


4 ENLARGED THIRD FLOOR SANITARY PLAN - GROUP & STAFF TOILETS
P2.1.3 P4.1.1 1/4" = 1'-0"

2 ENLARGED FIRST FLOOR SANITARY PLAN - GROUP & STAFF TOILETS
P2.1.1 P4.1.1 1/4" = 1'-0"



1 ENLARGED FOUNDATION PLAN - PLUMBING - GROUP & STAFF TOILETS
P2.0.1 P4.1.1 1/4" = 1'-0"



S1 ALL FLOORS CORE TOILET ROOMS - SANITARY RISER
NO SCALE

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5/22/19

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NEW HANOVER COUNTY
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ENLARGED PLANS & RISERS - PLUMBING

P4.1.1

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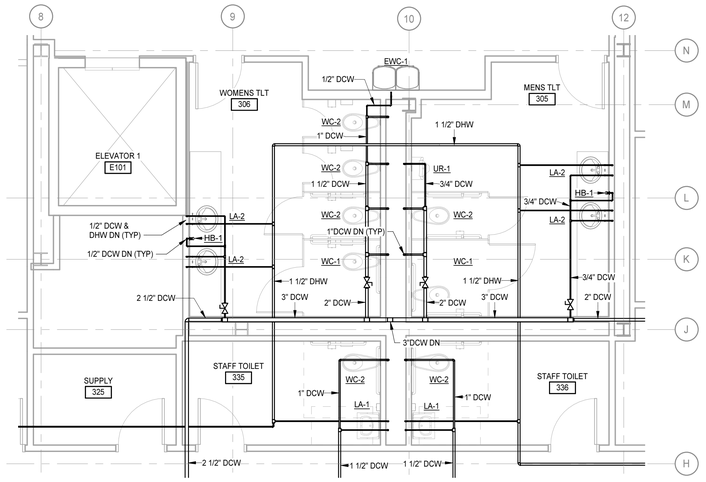
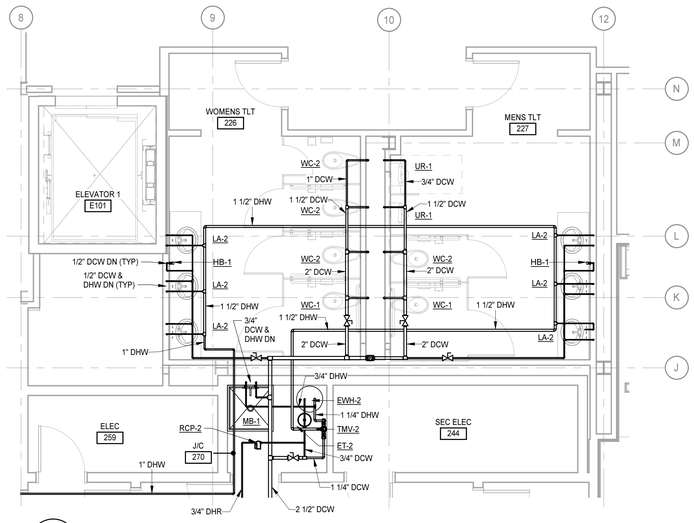
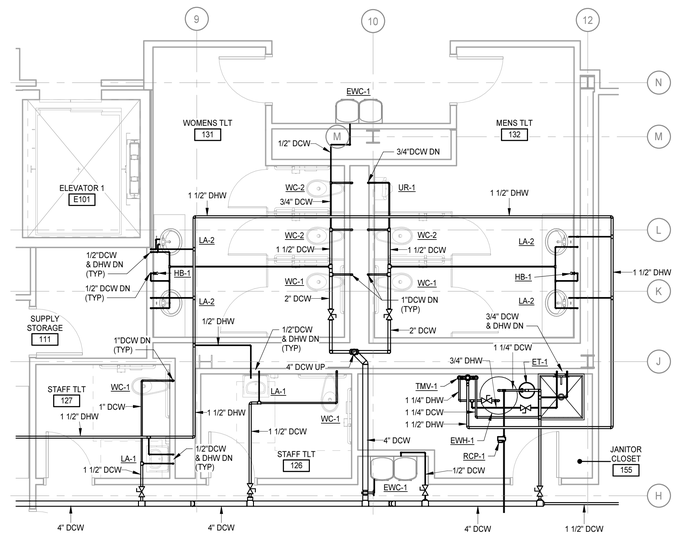


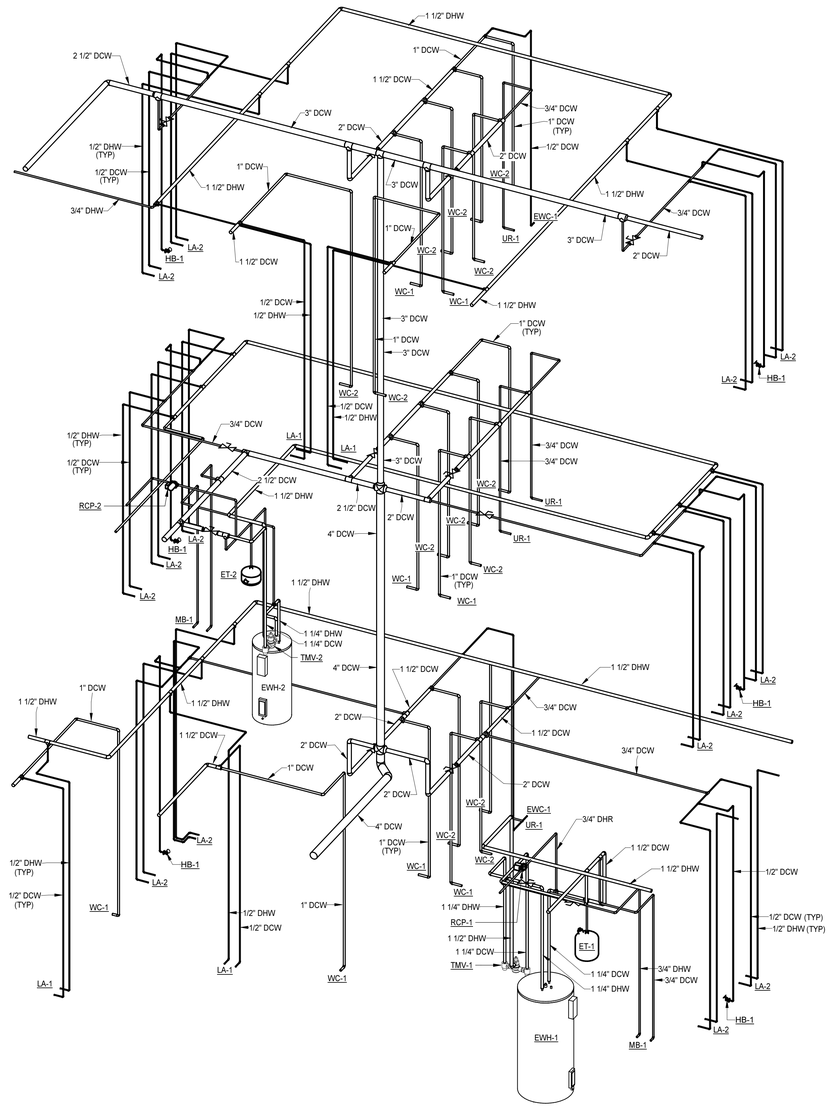
3 TYP P4.1.2 **ENLARGED THIRD FLOOR DOMESTIC PLAN - GROUP & STAFF TOILETS**
1/4" = 1'-0"



2 P2.2.2 P4.1.2 **ENLARGED SECOND FLOOR DOMESTIC PLAN - GROUP & STAFF TOILETS**
1/4" = 1'-0"



1 P2.2.1 P4.1.2 **ENLARGED FIRST FLOOR DOMESTIC PLAN - GROUP & STAFF TOILETS**
1/4" = 1'-0"



D1 **ALL FLOORS CORE TOILET ROOMS - DOMESTIC RISER**
NO SCALE

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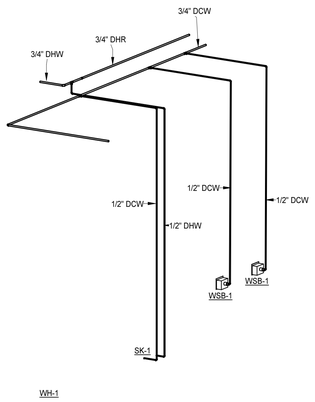
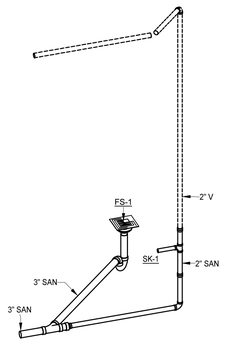
ENLARGED PLANS & RISERS - PLUMBING

P4.1.2

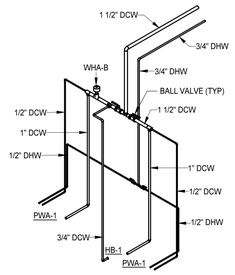
5/22/2019 10:05:42 AM



D3 DOMESTIC RISER - STAFF BREAK RM 129

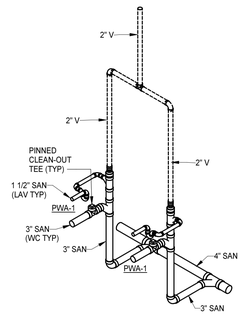


S3 SANITARY RISER - STAFF BREAK RM 129



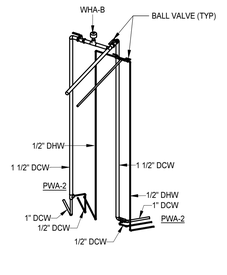
D2 ADA HOLDING CELL DOMESTIC RISER

NO SCALE



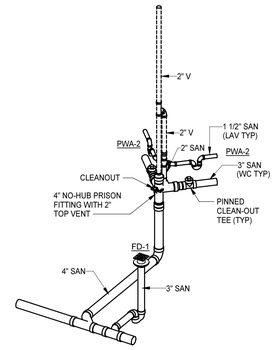
S2 ADA HOLDING CELL SANITARY RISER

NO SCALE



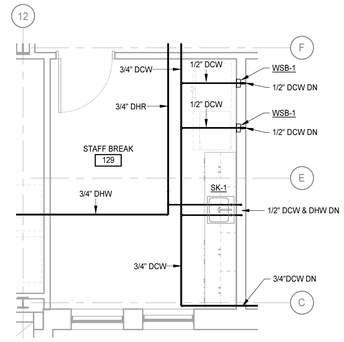
D1 HOLDING CELL DOMESTIC RISER

NO SCALE



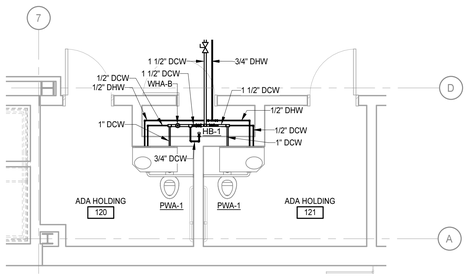
S1 HOLDING CELL SANITARY RISER

NO SCALE



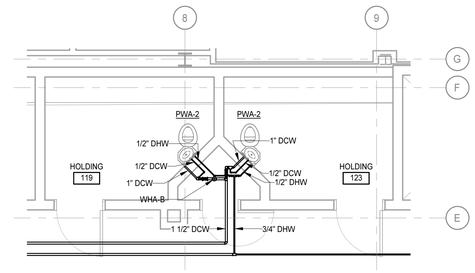
9 FIRST FLOOR DOMESTIC PLAN - STAFF BREAK RM 129

P2.2.1 | P4.1.3 1/4" = 1'-0"



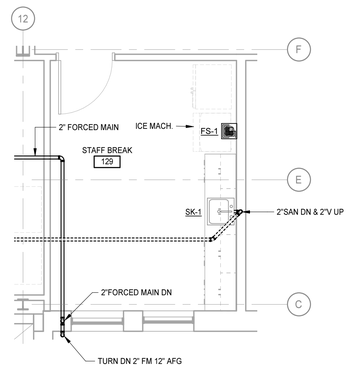
6 ENLARGED FIRST FLR DOMESTIC PLAN - TYPICAL ADA HOLDING CELLS

P2.2.1 | P4.1.3 1/4" = 1'-0"



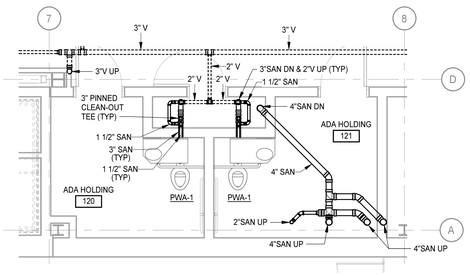
5 ENLARGED FIRST FLR DOMESTIC PLAN - TYPICAL HOLDING CELLS

P2.2.1 | P4.1.3 1/4" = 1'-0"



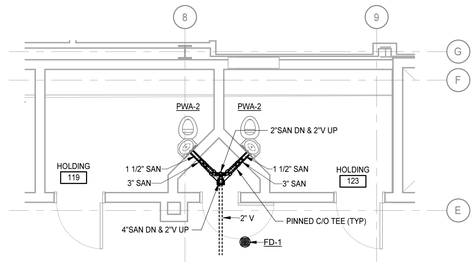
8 FIRST FLOOR SANITARY PLAN - STAFF BREAK RM 129

P2.1.1 | P4.1.3 1/4" = 1'-0"



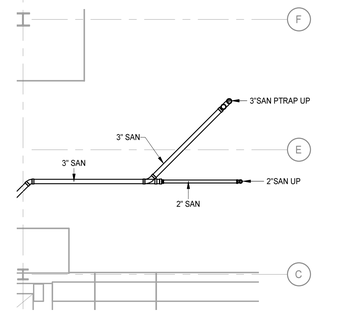
4 ENLARGED FIRST FLR SANITARY PLAN - TYPICAL ADA HOLDING CELLS

P2.1.1 | P4.1.3 1/4" = 1'-0"



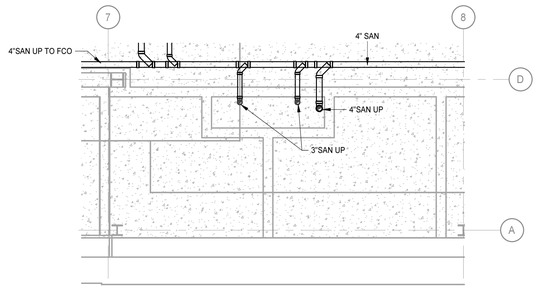
2 ENLARGED FIRST FLR SANITARY PLAN - TYPICAL HOLDING CELLS

P2.1.1 | P4.1.3 1/4" = 1'-0"



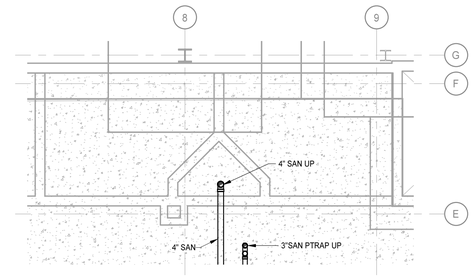
7 FOUNDATION PLAN - PLUMBING - Callout 1

P2.0.1 | P4.1.3 1/4" = 1'-0"



3 ENLARGED FOUNDATION PLAN - TYPICAL ADA HOLDING CELLS

P2.0.1 | P4.1.3 1/4" = 1'-0"



1 ENLARGED FOUNDATION PLAN - TYPICAL HOLDING CELLS

P2.0.1 | P4.1.3 1/4" = 1'-0"

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ENLARGED PLANS & RISERS - PLUMBING

P4.1.3

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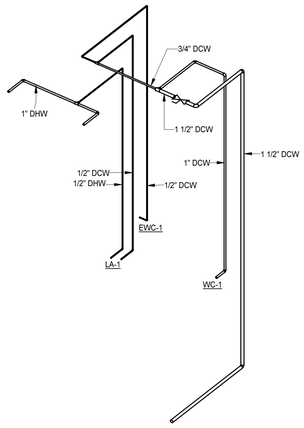
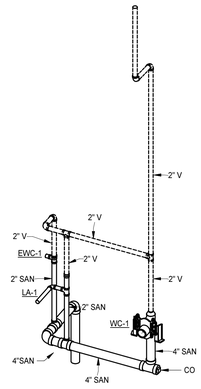
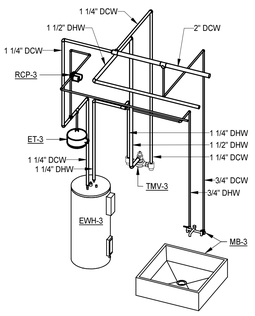


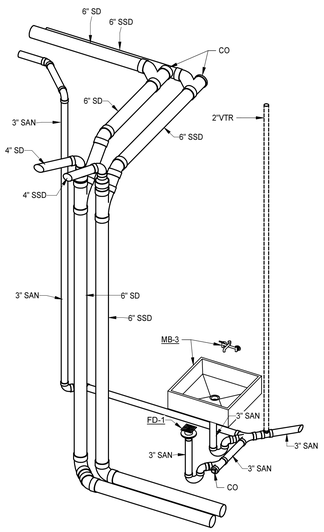
D3 **DOMESTIC RISER - FAM TOILET 261**
NO SCALE



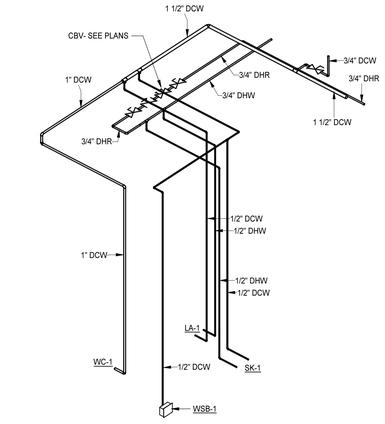
S3 **SANITARY RISER - FAM TOILET 261**
NO SCALE



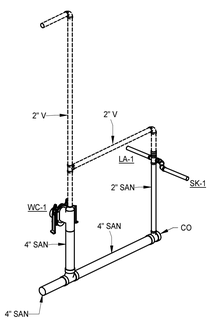
D2 **DOMESTIC RISER - JAN CLOS 350**
NO SCALE



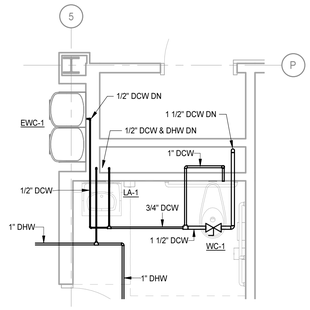
S2 **SANITARY RISER - JAN CLOS 350**
NO SCALE



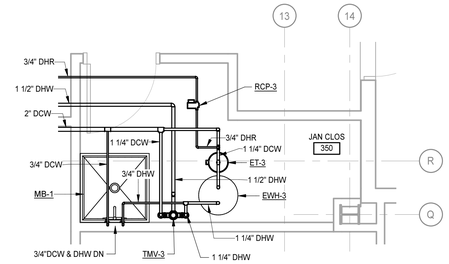
D1 **DOMESTIC RISER - TOILET 327 & BREAK 332**
NO SCALE



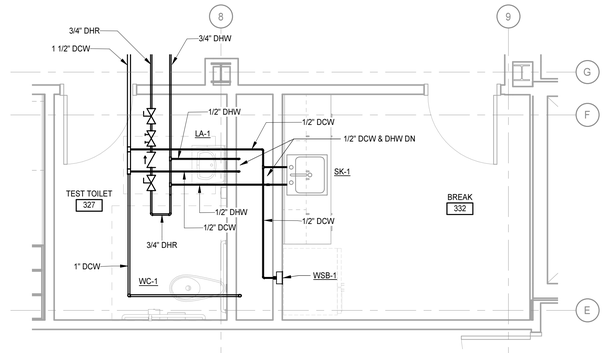
S1 **SANITARY RISER - TOILET 327 & BREAK 332**
NO SCALE



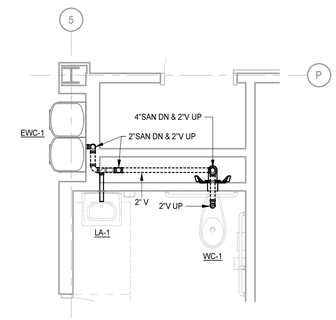
7 P2.2.2 P4.1.4 **ENLARGED SECOND FL DOMESTIC PLAN - FAM TOILET 261**
3/8" = 1'-0"



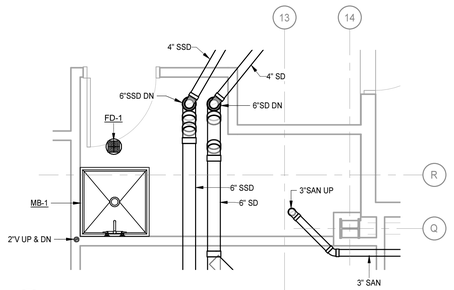
4 P2.2.3 P4.1.4 **ENLARGED THIRD FL DOMESTIC PLAN - JAN CLOS 350**
3/8" = 1'-0"



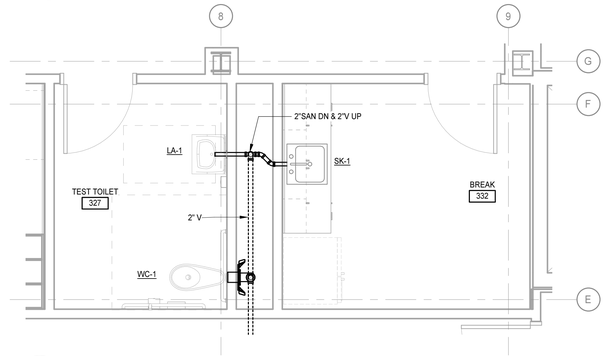
1 P2.2.3 P4.1.4 **ENLARGED THIRD FL DOMESTIC PLAN - TOILET 327 & BREAK 332**
3/8" = 1'-0"



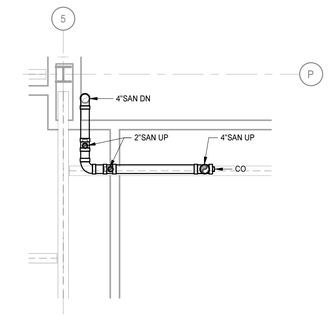
8 P2.1.2 P4.1.4 **ENLARGED SECOND FL SANITARY PLAN - FAM TOILET 261**
3/8" = 1'-0"



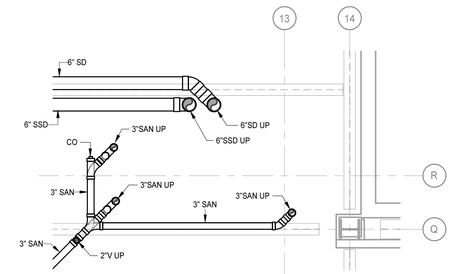
5 P2.1.3 P4.1.4 **ENLARGED THIRD FL SANITARY PLAN - JAN CLOS 350**
3/8" = 1'-0"



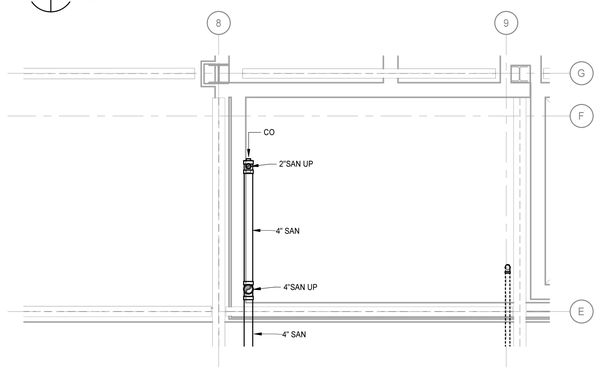
2 P2.1.3 P4.1.4 **ENLARGED THIRD FL SANITARY PLAN - TOILET 327 & BREAK 33**
3/8" = 1'-0"



9 P2.1.2 P4.1.4 **ENLARGED FIRST FL SANITARY PLAN - FAM TOILET 261**
3/8" = 1'-0"



6 P2.1.3 P4.1.4 **ENLARGED SECOND FL SANITARY PLAN - JAN CLOS 350**
3/8" = 1'-0"



3 P2.1.3 P4.1.4 **ENLARGED SECOND FL SANITARY PLAN - TOILET 327 & BREAK 33**
3/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 033520 ENGINEER JUSTIN P. CARLSON
5/22/19

NEW DJJ FACILITY

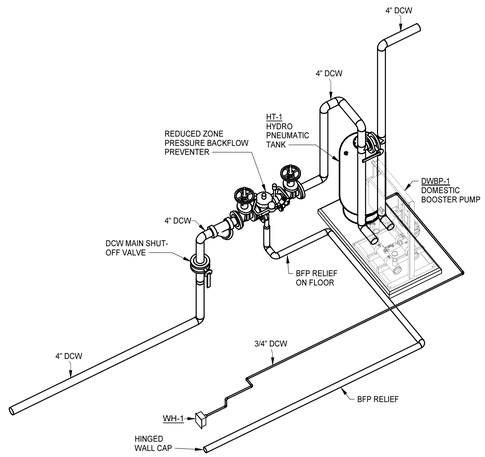
NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE:
571990	MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

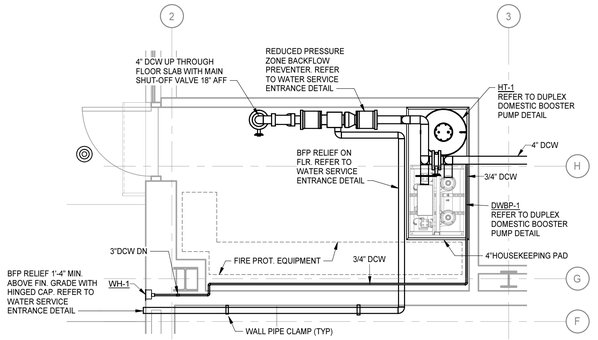
ENLARGED PLANS & RISERS - PLUMBING

P4.1.4

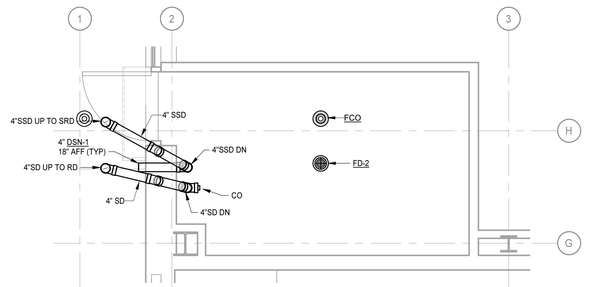
5/22/2019 10:05:55 AM



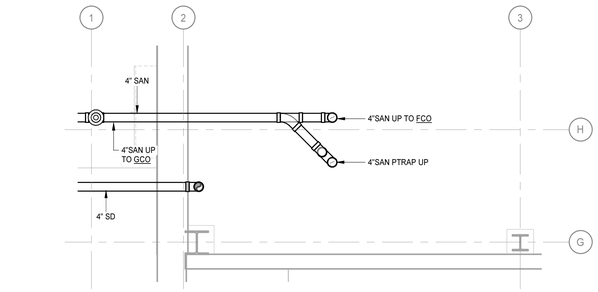
D1 **DOMESTIC RISER - RISER/BFP RM 157**
NO SCALE



1 P2.2.1 P4.1.5 **ENLARGED FIRST FL DOMESTIC PLAN - RISER/BFP RM 157**
3/8" = 1'-0"



2 P2.1.1 P4.1.5 **ENLARGED FIRST FL SANITARY PLAN - RISER/BFP RM 157**
3/8" = 1'-0"



3 P2.0.1 P4.1.5 **ENLARGED FOUNDATION PLAN - RISER/BFP RM 157**
3/8" = 1'-0"

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ENLARGED PLANS & RISERS - PLUMBING

P4.1.5

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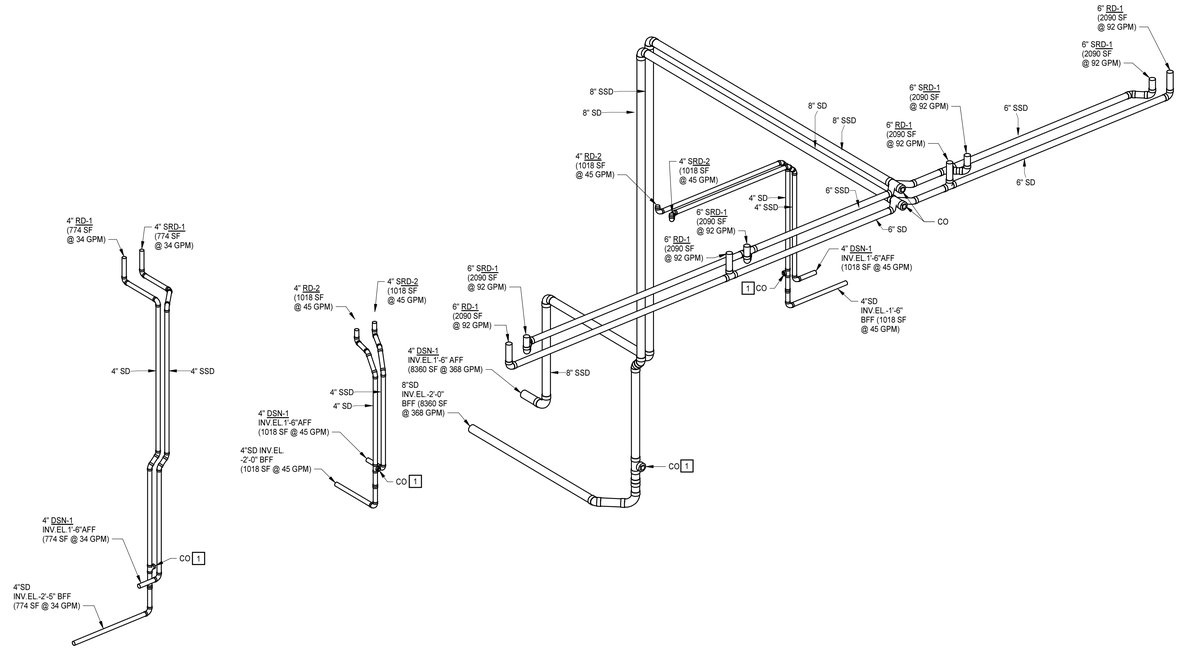
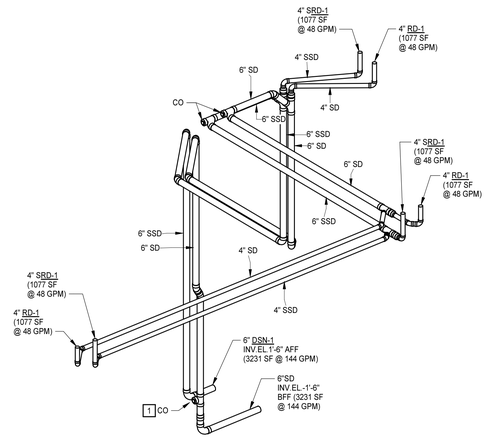
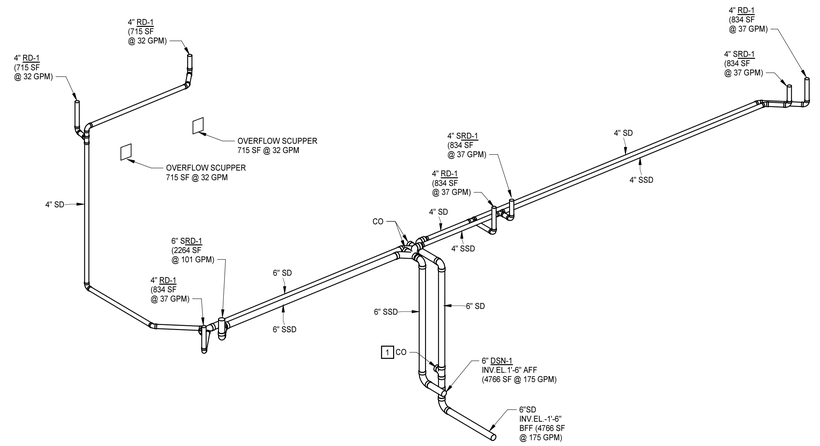
KEYNOTES

APPLIES TO DRAWINGS An.1 - An.nn
REPRESENTED BY n

1. PROVIDE CLEAN-OUT 2'-0" AFF WITH STEEL ACCESS PANEL IN FURRED OUT WALLS.







STORM DRAIN RISERS
NO SCALE

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5/22/19

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STORM DRAIN RISERS

P4.1.6

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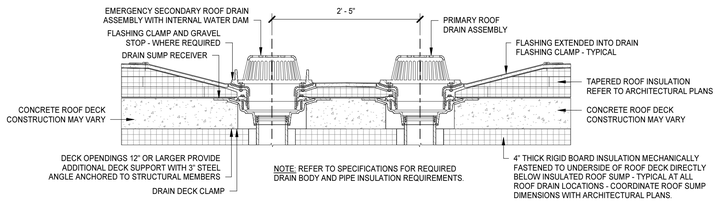
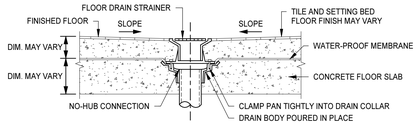


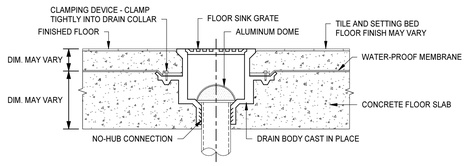
ROOF DRAIN DETAIL - PRIMARY/SECONDARY

NO SCALE



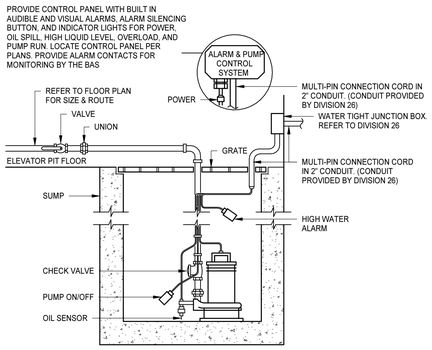
FLOOR DRAIN IN OPEN AREA DETAIL

NO SCALE



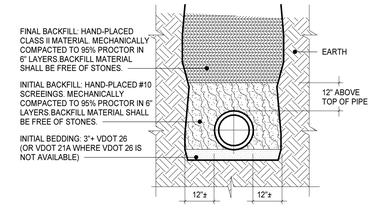
FLOOR SINK DETAIL - FLUSH

NO SCALE



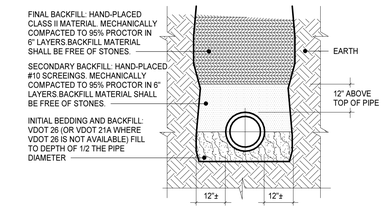
ELEVATOR SUMP PUMP DETAIL

NO SCALE



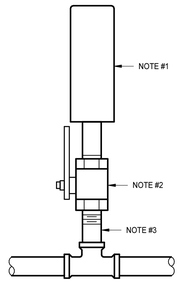
CAST IRON PIPE BEDDING DETAIL

NO SCALE

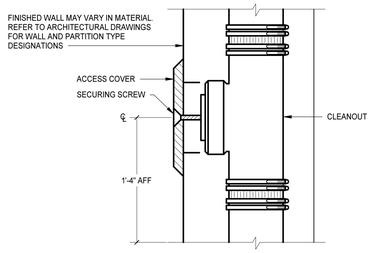


PVC PIPE BEDDING DETAIL

NO SCALE

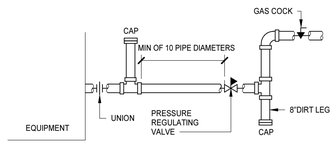


NOTES:
1. WATER HAMMER ARRESTOR.
2. BALL VALVE. VALVE SIZE SHALL BE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").
3. BRANCH PIPE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").



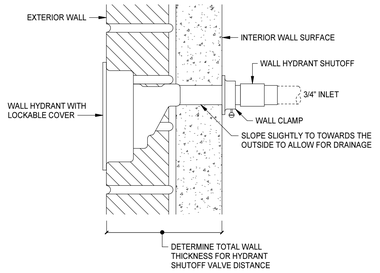
WALL CLEANOUT DETAIL

NO SCALE



GAS CONNECTION DETAIL

NO SCALE



EXTERIOR WALL HYDRANT DETAIL

NO SCALE

NOTES:
1. FLOW SWITCH ALARM SYSTEM EQUIPMENT BY THE EMERGENCY SHOWER/EYEWASH MANUFACTURER. ALARM SIGNAL TO BUILDING AUTOMATION SYSTEM (BAS). WHEN MULTIPLE EMERGENCY FIXTURES ARE INSTALLED, ALARM SHALL IDENTIFY WHICH UNIT IS IN ALARM.
2. ACTUAL MOUNTING OF ALARM SYSTEM ASSEMBLY SHALL BE TO 1-1/2" TEPID WATER SUPPLY PIPE - ALTERNATE WALL-MOUNTED INSTALLATION SHOWN FOR CLARITY.

LOCKABLE TYPE BALL VALVES
LOCKED IN THE OPEN POSITION
TYPICAL ALL ISOLATION VALVES
FOR SERVING EMERGENCY FIXTURES

EMERGENCY COMBINATION EYEWASH/SHOWER DETAIL

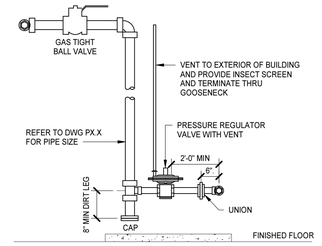
NO SCALE

WATER HAMMER ARRESTOR DETAIL

NO SCALE

WATER HAMMER ARRESTOR INSTALLATION & SIZING DETAIL

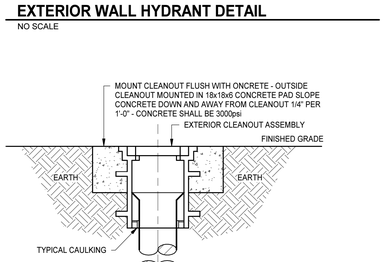
NO SCALE



NOTES:
1. REGULATOR AND GAS PIPING FROM DIRT LEG TO EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. REGULATOR SHALL MEET EQUIPMENT MANUFACTURER PRESSURE AND FLOW REQUIREMENTS.
3. ALL REGULATOR VENTS SHALL TERMINATE A MINIMUM OF 10'-0" AWAY FROM ALL OUTSIDE AND FRESH AIR INTAKES AND OPERABLE DOORS AND WINDOWS.

GAS PIPE CONNECTION DETAIL

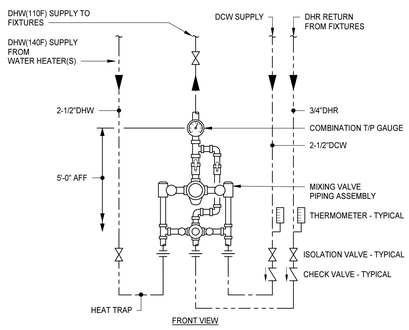
NO SCALE



EXTERIOR YARD CLEANOUT DETAIL

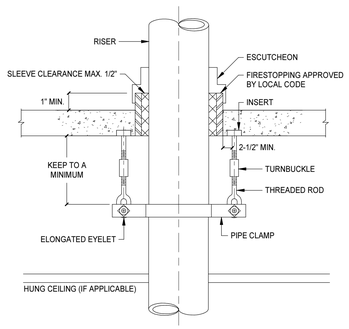
NO SCALE

NOTE:
PROVIDE INCREASERS AND DECREASERS AS REQUIRED. PIPING ARRANGEMENTS SHALL MATCH MANUFACTURER'S RECOMMENDED PIPING METHOD



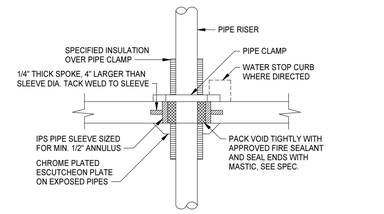
THERMOSTATIC MIXING VALVE DETAIL

NO SCALE



RISER SUPPORT - EXPOSED AREAS - DETAIL

NO SCALE



PIPE THRU FLOOR SLAB DETAIL

NO SCALE

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5/22/19

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO. 571990
DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

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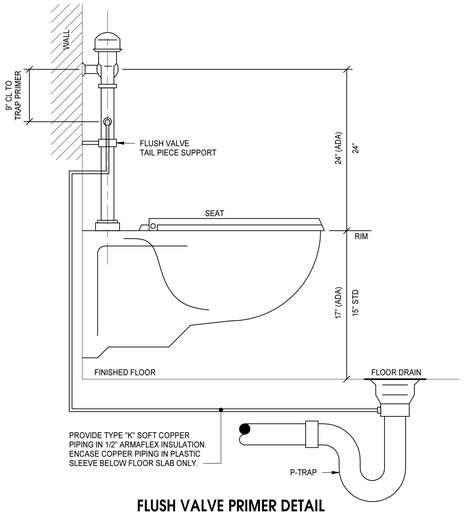
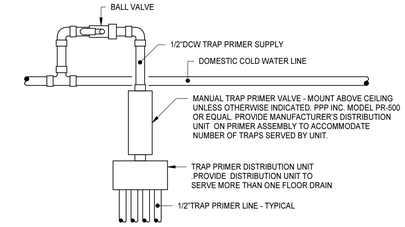
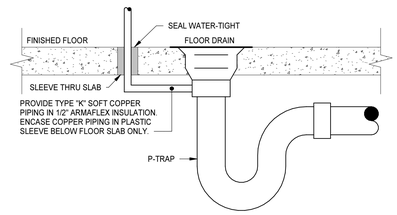


FLUSH VALVE PRIMER DETAIL



NOTES:
1. TRAP PRIMER VALVE ASSEMBLYS SHALL BE FIELD LOCATED BY THE CONTRACTOR.
2. PRIMERS, VALVES, AND ASSOCIATED PIPING SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
3. PROVIDE DISTRIBUTION UNIT SIZED FOR NUMBER OF DRAINS TO BE SERVED BY EACH INDIVIDUAL PRIMER.
4. DISTRIBUTION UNIT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

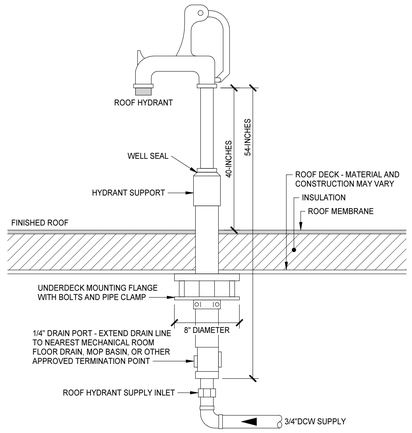


MECHANICAL PRIMER DETAIL

PROVIDE ONE OF THE ABOVE TRAP SEAL PRIMER DEVICES ON EVERY FLOOR DRAIN, FLOOR SINK OR TRENCH DRAIN THAT CONNECTS TO THE SANITARY SEWER SYSTEM ON THIS PROJECT.

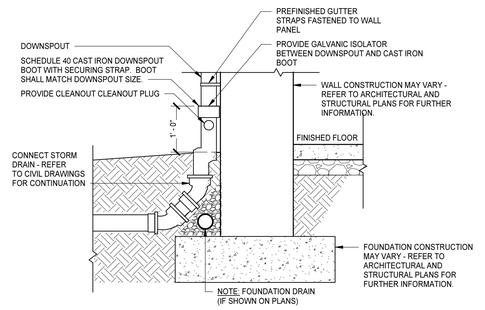
TRAP ASSEMBLY DETAILS

NO SCALE



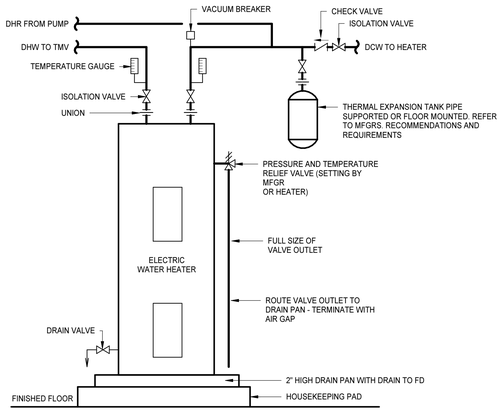
ROOF HYDRANT DETAIL

NO SCALE



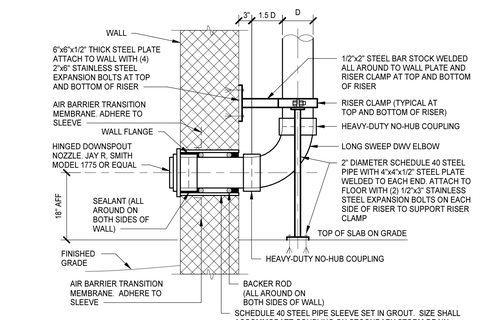
DOWNSPOUT BOOT CONNECTION DETAIL

NO SCALE



FLOOR MOUNTED ELECTRIC WATER HEATER DETAILL

NO SCALE



SECONDARY STORM DRAIN DISCHARGE NOZZLE DETAIL

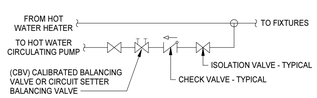
NO SCALE

ACCESSIBLE COMBI-UNIT PLAN

NO SCALE

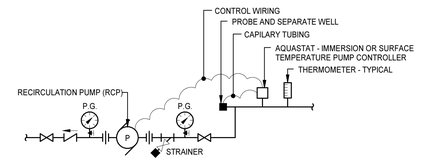
ACCESSIBLE COMBI-UNIT ELEVATION

NO SCALE



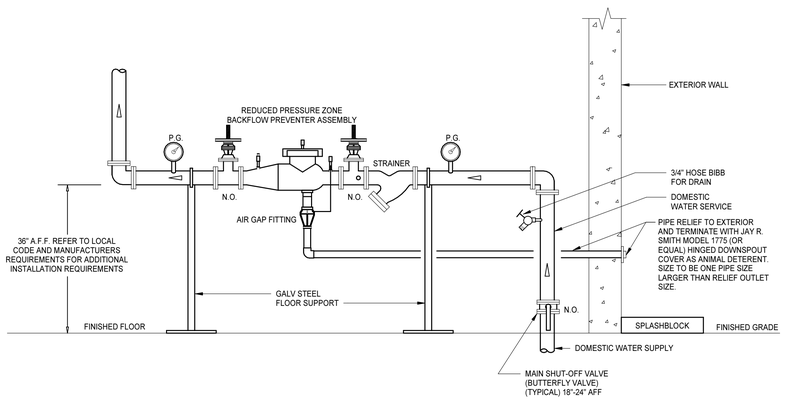
HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL

NO SCALE



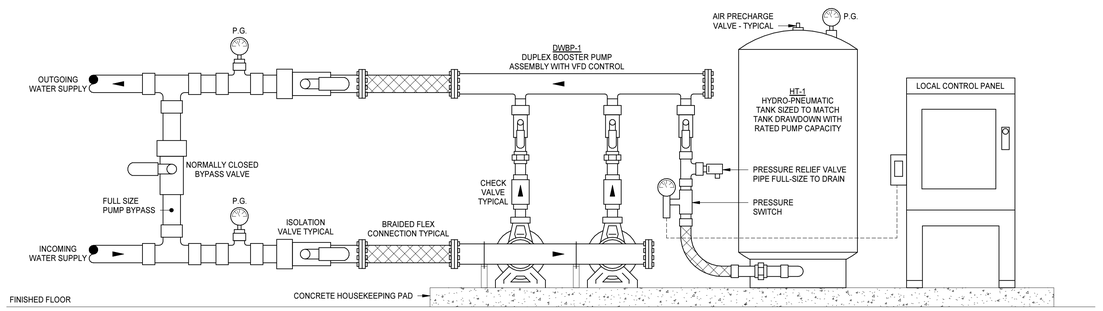
CIRCULATION PUMP DETAIL

NO SCALE



WATER SERVICE ENTRANCE DETAIL

NO SCALE



DUPLEX DOMESTIC BOOSTER PUMP DETAIL

NO SCALE

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5 / 22 / 19

NEW DJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

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PUMP SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	PUMP TYPE	OPERATING DATA				ELECTRICAL DATA			CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				FLOW (GPM)	PRESSURE (FEET OF HEAD)	POWER	SPEED (RPM)	VOLTS	PHASE	HERTZ	INLET (IN)	OUTLET (IN)	
RCP-1	GRUNDFOS	MAGNA 3 32-60F	JAN CLO 155	DHW RECIRCULATION	CANNED ROTOR	22 MAX	19 MAX	106W	3072	120	1	60	0.75	0.75	4
RCP-2	GRUNDFOS	MAGNA 3 32-60F	JAN CLO 270	DHW RECIRCULATION	CANNED ROTOR	22 MAX	19 MAX	106W	3072	120	1	60	0.75	0.75	4
RCP-3	GRUNDFOS	MAGNA 3 32-60F	JAN CLO 350	DHW RECIRCULATION	CANNED ROTOR	22 MAX	19 MAX	106W	3072	120	1	60	0.75	0.75	4
DWBP-1	HYFAB	MVP-630-460	RISER/BFP 157	DOMESTIC WATER BOOSTER	VARIABLE SPEED	136.00	165.00	2@ 3HP EACH	VARI	460	3	60	4.00	4.00	4
ESP-1	STANCOR OIL MINDER	SE-50	ELEVATOR 1 SUMP PIT	ELEVATOR SUMP FORCED MAIN	SUBMERSIBLE	25.00	30.00	0.5HP	3450	120	1	60	N/A	2.00	1, 2
ESP-2	STANCOR OIL MINDER	SE-50	ELEVATOR 2 SUMP PIT	ELEVATOR SUMP FORCED MAIN	SUBMERSIBLE	25.00	30.00	0.5HP	3450	120	1	60	N/A	2.00	1, 3
ESP-3	STANCOR OIL MINDER	SE-50	ELEVATOR 3 SUMP PIT	ELEVATOR SUMP FORCED MAIN	SUBMERSIBLE	25.00	30.00	0.5HP	3450	120	1	60	N/A	2.00	1, 3

NOTES:

1. PROVIDE WITH OIL MINDER CONTROLLER
2. INSTALL PUMP CONTROLLER IN STORAGE RM. 111.
3. INSTALL PUMP CONTROLLER IN SECURITY ELEC. RM. 115.
4. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PIPING REQUIREMENTS.

TANK SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	TANK TYPE	OPERATING DATA			ASME CODE CONSTRUCTION (YES/NO)	CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	AIR PRE-CHARGE PRESSURE (PSIG)		INLET (IN)	OUTLET (IN)	
ET-1	AMTROL	ST-12C	JAN CLO 155	DHW	EXPANSION	4.40	0.73	50.00	YES	3/4"	3/4"	1
ET-2	AMTROL	ST-5C	JAN CLO 270	DHW	EXPANSION	2.00	0.45	50.00	YES	3/4"	3/4"	1
ET-3	AMTROL	ST-5C	JAN CLO 350	DHW	EXPANSION	2.00	0.45	50.00	YES	3/4"	3/4"	1
HT-1	WESSELS	FXA-300-WG	RISER/BFP 157	DCW	HYDRO-PNEUMATIC	79.00	79.00	30.00	YES		1 1/2"	

1. REFER TO MANUFACTURERS RECOMMENDATIONS FOR FINAL PIPING ARRANGEMENT. PROVIDE EQUAL LEG PIPING FOR INLETS AND OUTLETS OF MANIFOLDED STORAGE TANKS TO PROVIDE EVEN DISTRIBUTION AND DRAWOFF.

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	BASIS OF DESIGN		DESIGN FLOW (GPM)	FLOW RANGE (GPM)	MAX. P.D. AT DESIGN FLOW	HW SYSTEM TEMPERATURES		CONNECTION SIZES		NOTES
	MANUFACTURER	MODEL				INLET	OUTLET	INLET	OUTLET	
TMV-1	POWERS	LFSH1434	.5 - 24.0	.5 - 60	10 PSI	140°F	110°F	1 1/4"	1 1/2"	2
TMV-2	POWERS	LFSH1434	.5 - 19.0	.5 - 60	10 PSI	140°F	110°F	1 1/4"	1 1/2"	2
TMV-3	POWERS	LFSH1434	.5 - 19.0	.5 - 60	10 PSI	140°F	110°F	1 1/4"	1 1/2"	2
TMV-4	BRADLEY	S19-2250-RS (EFX50)	5.1 - 22.0	3.0 - 27.0	10 PSI	110°F	85°F	1.5	1.5	1

1. PROVIDE THERMOSTATIC MIXING VALVE ASSEMBLY WITH LOCKABLE, STAINLESS STEEL SEMI-RECESSED WALL MOUNTED CABINET AND T/P GAUGES ON INLETS AND OUTLET.
2. INSTALL THERMOSTATIC MIXING VALVE ASSEMBLY ON WALL MOUNTED STEEL SUPPORT RACK AND T/P GAUGES ON INLETS AND OUTLET.

DRAIN AND CLEANOUT SCHEDULE

TAG	BASIS OF DESIGN		STRAINER/GRATE	NOTES
	MANUFACTURER	MODEL		
DRAINS				
FD-1	JOSAM	30000-6S-PD-2-VP-X	6" x 6"	1, 2
FD-2	JOSAM	30000-8S-PD-80-2-SS-X	8" x 8"	1, 2
RD-1	JOSAM	21500-AE-20-X	13 3/4"	2, 3
SRD-1	JOSAM	21500-AE-10-20-X	13 3/4"	2, 5
RD-2	JOSAM	21500-AE-RDG1-20-X	13 1/2"	2, 4
SRD-2	JOSAM	21500-AE-ORDG1-10-20-X	13 1/2"	2, 6
FCO	JOSAM	55000-SS-SD-41-VP-Z	N/A	2
GCO	JOSAM	5500--1-SD-41-VP-Z	N/A	2
FS-1	JOSAM	49344A-3-33-35-X	10" x 10"	1 - HALF GRATE
DSN-1	JAY R SMITH	1775	HINGED COVER	

NOTES:

1. PROVIDE ALL FLOOR DRAINS CONNECTED TO THE SANITARY SEWER SYSTEM WITH TRAP PRIMERS OR TRAP GUARD INSERTS.
2. ALL ROOF DRAINS, SANITARY DRAINS AND CLEANOUTS TO HAVE ADJUSTABLE HEIGHT TOP.
3. PROVIDE ROOF DRAIN WITH GALVANIZED STEEL BODY & PARTS.
4. PROVIDE GREEN ROOF DRAIN WITH GALVANIZED AND STAINLESS STEEL BODY & PARTS.
5. PROVIDE EMERGENCY SECONDARY ROOF DRAIN WITH 4" INTEGRAL WATER DAM, GALVANIZED BODY & PARTS.
6. PROVIDE EMERGENCY SECONDARY GREEN ROOF DRAIN WITH 4" INTEGRAL WATER DAM, GALVANIZED AND STAINLESS STEEL BODY & PARTS.

PLUMBING FIXTURE ROUGHING-IN SCHEDULE

TAG	FIXTURE	HEIGHT A.F.F.	PIPE SIZE					NOTES
			COLD WATER	TEPID WATER	HOT WATER	VENT	SOIL WASTE	
EEWS-1	EMERGENCY SHOWER, EYEWASH/FACEWASH COMBO	FLOOR MOUNTED	1"	1-1/4"	1"	N/A	N/A	4
EWC-1	ELECTRIC WATER COOLER (ACCESSIBLE) BI-LEVEL	BUBBLER UPPER AT 39", LOWER AT 34"	1/2"	N/A	N/A	2"	2"	1
HB-1	HOSE BIBB (KEY OPERATED)	18" ABOVE FINISHED FLOOR	3/4"	N/A	N/A	N/A	N/A	
LA-1	LAVATORY -(ACCESSIBLE HEIGHT, WALL MOUNTED)	RIM AT 34"	1/2"	N/A	1/2"	2"	2"	1
LA-2	LAVATORY -(MOLDED TOP BASINS BY ARCHITECT) MANUAL FAUCET & DRAIN ONLY	REF ARCHITECTURAL CASEWORK	1/2"	N/A	1/2"	2"	2"	1
MB-1	MOP BASIN	FLOOR MOUNTED	3/4"	N/A	3/4"	2"	3"	
RH-1	ROOF HYDRANT (FREEZE RESISTANT)	ROOF MOUNTED	3/4"	N/A	N/A	N/A	N/A	
SK-1	SINK (SINGLE COMPARTMENT)	REF ARCHITECTURAL CASEWORK	1/2"	N/A	1/2"	2"	2"	1
UR-1	URINAL - (ACCESSIBLE HEIGHT- CARRIER MOUNTED) MANUAL	RIM AT 17"	3/4"	N/A	N/A	2"	2"	2
WC-1	WATER CLOSET - (ACCESSIBLE HEIGHT- CARRIER MOUNTED) MANUAL	TOP OF SEAT 17-19"	1"	N/A	N/A	2"	4"	1, 2
WC-2	WATER CLOSET - (STANDARD HEIGHT - CARRIER MOUNTED) MANUAL	TOP OF SEAT 15"	1"	N/A	N/A	2"	4"	2
WH-1	WALL HYDRANT (FREEZE RESISTANT BOX)	18" ABOVE FINISHED GRADE OR ROOF	3/4"	N/A	N/A	N/A	N/A	
WSB-1	WATER SUPPLY BOX (ICE MAKER)	BOTTOM 8" ABOVE FINISHED FLOOR	1/2"	N/A	N/A	N/A	N/A	

NOTES:

1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL COMPLY TO ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES STANDARDS.
2. LOCATE FLUSH ACTUATORS ON WIDE SIDE OF STALLS OR APPROACH AREAS.
3. PROVIDE ASSE 1016 CERTIFIED MIXING VALVE.
4. PROVIDE ASSE 1071 CERTIFIED EMERGENCY MIXING VALVE IN RECESSED STAINLESS STEEL WALL CABINET BESIDE FIXTURE AT 5'-0" AFF. REFER TO TMV-3.

SECURITY FIXTURE ROUGHING-IN SCHEDULE

TAG	FIXTURE	HEIGHT A.F.F.	PIPE SIZE					NOTES
			COLD WATER	TEPID WATER	HOT WATER	VENT	SOIL WASTE	
PWA-1	WALL MOUNTED STRAIGHT SECURITY COMBI-UNIT FIXTURE (ACCESSIBLE WITH GRAB BARS)	TOP OF SEAT 17"-19"	1"	N/A	1/2"	2"	3"	1, 2, 3, 4
PWA-2	WALL MOUNTED ANGLED SECURITY COMBI-UNIT FIXTURE	TOP OF SEAT 15"	1"	N/A	1/2"	2"	3"	2, 3, 4

NOTES:

1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL COMPLY TO ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES STANDARDS.
2. PROVIDE PNEUMATIC CONCEALED ACCESSIBLE PUSH-BUTTON WATER CLOSET FLUSH VALVE. PROVIDE WHA-A FOR EACH FIXTURE.
3. PROVIDE PNEUMATIC METERING VALVE ASSEMBLY WITH LIGATURE-RESISTANT PUSH BUTTONS - COORDINATE EXACT LOCATIONS WITH PLANS AND SCHEDULES.
4. PROVIDE WITH UNDER CABINET THERMOSTATIC MIXING VALVE IN CHASE FOR EACH TWO FIXTURES ON HOT WATER LINE TO LAVATORY SINK. SET TO 105 F.

ELECTRIC WATER HEATER SCHEDULE

TAG	BASIS OF DESIGN		CAPACITY (GALLONS)	RECOVERY RATE (GPH)	TEMPERATURE RISE (°F)	ELECTRICAL DATA				TEMPERATURE SETTING (°F)	NOTES
	MANUFACTURER	MODEL				INPUT RATE	VOLTAGE	PHASE	HERTZ		
EWH-1	A.O. SMITH	DEN-120	119	41	100	10KW	480	3	60	140	1
EWH-2	A.O. SMITH	DEN-40	40	41	100	10KW	480	3	60	140	1
EWH-2	A.O. SMITH	DEN-40	40	41	100	10KW	480	3	60	140	1

1. KW INPUT RATE FOR ELECTRIC WATER HEATERS BASED ON FULL LOAD SIMULTANEOUS OPERATION.

MOSELEY ARCHITECTS
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NORTH CAROLINA PROFESSIONAL SEAL 033520 ENGINEER JUSTIN P. CARLSON
5/22/19

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

SCHEDULES

P6.1

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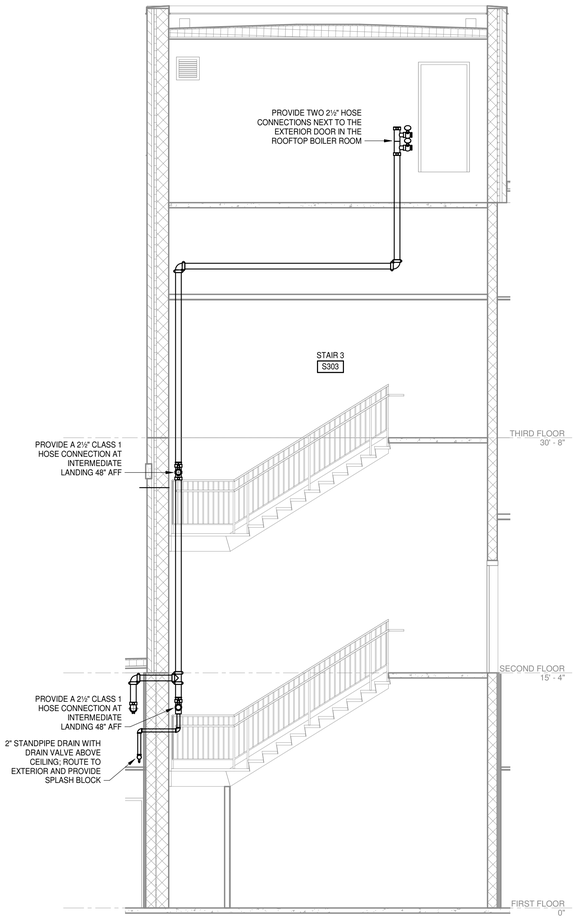
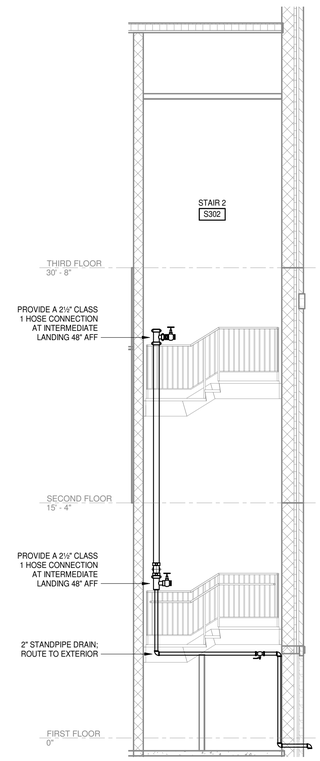
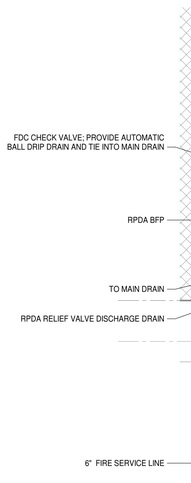
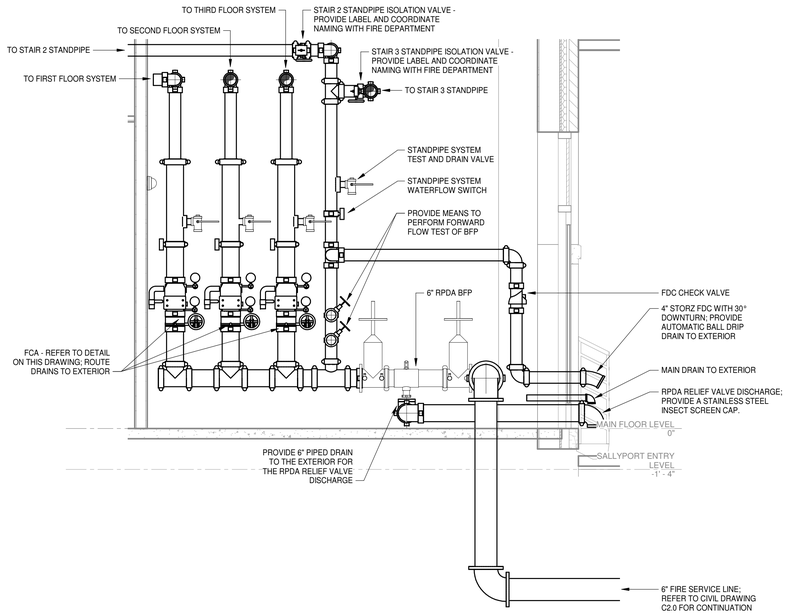


4 FP2.1.1 FP0.1 **STAIR 3 STANDPIPE DETAIL**
1/4" = 1'-0"



3 FP2.1.1 FP0.1 **STAIR 2 STANDPIPE DETAIL**
1/4" = 1'-0"





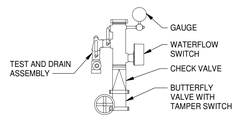
2 FP2.1.1 FP0.1 **FIRE SERVICE ENTRANCE ASSEMBLY WEST**
1/2" = 1'-0"

1 FP2.1.1 FP0.1 **FIRE SERVICE ENTRANCE ASSEMBLY SOUTH**
1/2" = 1'-0"

0' 6" 1' 2' 4'
1/2" = 1'-0"

ABBREVIATIONS

@	AT
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
CL	CENTERLINE
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUATION
CORR	CORRIDOR
CU	CUBIC
CU FT	CUBIC FEET
DCW	DOMESTIC COLD WATER
DEG	DEGREE(S)
DEMO	DEMOLISH OR DEMOLITION
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EAST
ECGH	ELECTRIC CEILING HEATER
EF	EXHAUST FAN
EH-1	EXTRA HAZARD GROUP 1
EH-2	EXTRA HAZARD GROUP 2
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EX	EXISTING
EXP	EXPANSION
F	FARENHEIT
FCA	FLOOR CONTROL ASSEMBLY
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHS	FIRE HOSE STATION
FHVC	FIRE HOSE VALVE CABINET
FLR	FLOOR
FP	FIRE PROTECTION
FT	FOOT OR FEET
FVC	FIRE VALVE CABINET
GAL	GALLON(S)
GPM	GALLONS PER MINUTE
GUH	GAS-FIRED UNIT HEATER
HB	HOSE BIB
HD	HEAD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HW	HOT WATER
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATE OR INSULATION
JAN	JANITOR
KIT	KITCHEN
KW	KILOWATT(S)
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LH	LIGHT HAZARD
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NORTH
NA	NOT APPLICABLE/AVAILABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO. OR #	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OH-1	ORDINARY HAZARD GROUP 1
OH-2	ORDINARY HAZARD GROUP 2
P	PUMP
PC	PRECAST
PIV	POST INDICATOR VALVE
POLY	POLYETHYLENE
PREFAB	PREFABRICATE(D)
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
R	RISER
REF	REFERENCE
REQ	REQUIRED
RM	ROOM
RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
RPM	REVOLUTIONS PER MINUTE
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SD	SMOKE DAMPER
SHT	SHEET
SIM	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
STD	STANDARD
STL	STEEL
STOR	STORAGE
SW	SWITCH
T	TEMPERATURE
THK	THICK(NESS)
TLT	TOILET
TOSL	TOP OF SLAB
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UI	UNLESS UNDICATED
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VERT	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
WH	WATER HEATER



FLOOR CONTROL ASSEMBLY (FCA)
NO SCALE

GRAPHICS SYMBOLS LEGEND

- VALVE
- GATE VALVE
- VALVE IN RISER
- CHECK VALVE
- SOLENOID VALVE
- FLOW SWITCH
- PRESSURE REDUCING VALVE
- DOUBLE CHECK BACKFLOW PREVENTER
- F — FIRE PROTECTION WET SPRINKLER PIPING
- DP — FIRE PROTECTION DRY SPRINKLER PIPING
- FG — FIRE EXTINGUISHING GAS PIPING
- FIRE PROTECTION DRY SPRINKLER PIPING
- UNION
- PRESSURE GAUGE WITH GAUGE COCK
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- PIPE CAP
- 1/8"/FT — PITCH PIPE DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
- FLOW IN DIRECTION OF ARROW
- CONCENTRIC PIPE REDUCTION
- ECCENTRIC PIPE REDUCTION
- PUMP
- FIRE DEPARTMENT CONNECTION
- PENDENT SPRINKLER
- CONCEALED PENDENT SPRINKLER
- E — EXTENDED COVERAGE PENDENT SPRINKLER
- E — CONCEALED EXTENDED COVERAGE PENDENT SPRINKLER
- PENDENT SPRINKLER WITH GUARD
- UPRIGHT SPRINKLER
- E — EXTENDED COVERAGE UPRIGHT SPRINKLER
- UPRIGHT SPRINKLER WITH GUARD
- SIDEWALL SPRINKLER
- E — EXTENDED COVERAGE SPRINKLER
- CE — CONCDEALED EXTENDED COVERAGE SIDEWALL SPRINKLER
- EXTINGUISHING AGENT DISCHARGE NOZZLE
- H — COMBINATION AUDIBLE AND STROBE ALARM
- F — MANUAL PULL STATION
- A — ABORT SWITCH
- I — IONIZATION SMOKE DETECTOR
- P — PHOTOELECTRIC SMOKE DETECTOR

- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF SPRINKLERS IS BASED ON LIGHT HAZARD.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF SPRINKLERS IS BASED ON ORDINARY HAZARD GROUP 1.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF SPRINKLERS IS BASED ON ORDINARY HAZARD GROUP 2.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF DRY SPRINKLERS IS BASED ON ORDINARY HAZARD GROUP 2.
- INDICATES AREAS OF THE BUILDING THAT WILL REQUIRE ORDINARY HAZARD GROUP 1 ANITFREEZE PROTECTION, BRANCHING FROM THE LINE THAT SERVES THE AREA. REFER TO ANTI-FREEZE DETAIL.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF SPRINKLERS IS BASED ON EXTRA HAZARD GROUP 1.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF SPRINKLERS IS BASED ON EXTRA HAZARD GROUP 2.

- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- 30 — KEYNOTE
- A123 — **SPACE IDENTIFICATION TAG**: SPACE NUMBER; BUILDING AREA (WHEN USED)
- AHU-02 — **EQUIPMENT IDENTIFICATION TAG**: EQUIPMENT NUMBER; UNIT DESIGNATION
- 8 — STRUCTURAL GRID LINE WITH DESIGNATION
- **SECTION WHERE CUT**: A / M6.1 — SECTION LETTER; DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN WHERE CUT**: 1 / M2.5 — ENLARGED PLAN NUMBER; DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 / M4.1 — DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED

1 DETAIL TITLE 1/4"=1'-0"
M2.2 M4.1 M2.3 M2.4
DETAIL NUMBER
DRAWING WHERE DETAIL IS INDICATED
DRAWING WHERE DETAIL IS CUT
ADDITIONAL DRAWING REFERENCES

A SECTION TITLE 1/4"=1'-0"
M2.2 M3.1 M2.3 M2.4
SECTION LETTER
DRAWING WHERE SECTION IS INDICATED
DRAWING WHERE SECTION IS CUT
ADDITIONAL DRAWING REFERENCES

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. COORDINATE THE LOCATION OF ALL SPRINKLER PIPING WITH THE WORK OF OTHER TRADES. SPRINKLER PIPING SHALL NOT BE INSTALLED WHERE ITS LOCATION INHIBITS ACCESS TO EQUIPMENT ABOVE THE CEILING, FILTER ACCESS OR INFRINGES UPON CLEARANCES DICTATED BY THE NATIONAL ELECTRIC CODE.

C. VERIFY DIMENSIONS AND ROUTING IN FIELD BEFORE FABRICATION OF PIPING AND FIXTURES.

D. REFER TO THE LIFE SAFETY PLAN FOR LOCATIONS OF FIRE AND SMOKE SEPARATION ASSEMBLIES.

E. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS. PROVIDE SEISMIC BRACING INSTALLED IN ACCORDANCE WITH NFPA 13 §9.3 FOR SEISMIC DESIGN CATEGORY C; REFER TO STRUCTURAL DRAWING S0.0.1.

F. CONTRACTOR SHALL PROVIDE AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING AND A MANUAL WET STANDPIPE SYSTEM IN ACCORDANCE WITH 2018 NORTH CAROLINA BUILDING CODE, THE CITY OF WILMINGTON SPRINKLER PLAN REVIEW REQUIREMENTS, AND 2013 NFPA 13 AND 2013 NFPA 14. SYSTEM DOCUMENTS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NORTH CAROLINA OR BY A NICET LEVEL III OR IV CERTIFIED TECHNICIAN.

G. HYDRAULIC CALCULATIONS PROVIDED AS PART OF THE CONTRACT DOCUMENTS ARE FOR BID PURPOSES ONLY.

H. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLERS WHEN INSTALLED 2'-6" OR LESS TO AN HVAC SUPPLY DIFFUSER IN THE CEILING AS REQUIRED BY NFPA 13 TABLE 8.3.2.5(a) ITEM (1)(c) FOR HORIZONTAL DISCHARGE. SPRINKLERS SHALL BE INSTALLED IN THE CENTER OF SQUARE CEILING TILES, AND CENTERED IN EITHER HALF OF RECTANGULAR CEILING TILES.

I. THE CONTRACTOR IS TO PROVIDE A STANDPIPE SYSTEM FOR FIRE DEPARTMENT USE DURING CONSTRUCTION, TO BE INSTALLED WHEN THE PROGRESS OF CONSTRUCTION IS NOT MORE THAN 40 FT ABOVE THE GROUND FLOOR LEVEL. THE STANDPIPES SHALL BE EXTENDED AS CONSTRUCTION PROGRESSES TO WITHIN ONE FLOOR OF THE HIGHEST POINT OF CONSTRUCTION HAVING SECURED DECKING OR FLOORING. PROVIDE HOSE CONNECTIONS IN ALL LOCATIONS AS REQUIRED FOR THE FINISHED BUILDING. THE FDC FOR USE DURING CONSTRUCTION MUST INCLUDE A 5" STORZ INLET CONNECTION ANGLED DOWN 30° AND BE SO LOCATED AS TO BE ACCESSIBLE TO THE FIRE DEPARTMENT, UNOBSTRUCTED BY CONSTRUCTION SITE FEATURES OR FENCING. THE PERMANENT STANDPIPES AND FDC FOR FINAL BUILDING USE ARE PERMITTED TO SERVE THIS FUNCTION PROVIDED THEY ARE INSTALLED AND AVAILABLE AT THE REQUIRED PHASES OF CONSTRUCTION.

DESIGN FLOW DATA

THE FOLLOWING DATA SHALL BE USED FOR BID PURPOSES ONLY. CONFIRM DATA PRIOR TO CALCULATING PIPE SIZES:

LOCATION OF TEST: NORTHWEST CORNER OF NORTH 4TH ST AND CHESTNUT ST

STATIC PRESSURE: 54 PSI

RESIDUAL PRESSURE: 49 PSI

FLOW AT TIME OF TEST: 1,021 GPM

DATE OF TEST: 01/15/2019

NOTES:

PRESSURE HYDRANT ELEVATION: 43 FT
BUILDING FINISHED FLOOR ELEVATION: 41.25 FT

SPRINKLERS

IN SPACES WITH SECURITY MESH CEILINGS AND IN HOLDING CELLS PROVIDE TYCO RAVEN INSTITUTIONAL TYPE, QUICK RESPONSE SPRINKLERS, WITH CHROME FINISH.

IN SUSPENDED ACOUSTICAL OR GYPSUM CEILINGS PROVIDE RECESSED, QUICK RESPONSE, GLASS BULB TYPE SPRINKLERS WITH CHROME FINISH AND MATCHING ESCUTCHEON.

FOR HORIZONTAL SIDEWALL APPLICATIONS PROVIDE RECESSED, QUICK RESPONSE, GLASS BULB TYPE SPRINKLERS WITH CHROME FINISH AND MATCHING ESCUTCHEON.

IN EQUIPMENT AND STORAGE ROOMS WITHOUT SUSPENDED CEILINGS PROVIDE STANDARD UPRIGHT, QUICK RESPONSE TYPE SPRINKLERS WITH BRASS FINISH.

IN AREAS EXPOSED TO FREEZING TEMPERATURES PROVIDE QUICK RESPONSE, FUSIBLE LINK TYPE DRY SPRINKLERS.

PROVIDE DRY HORIZONTAL SIDEWALL SPRINKLERS WITH GUARDS TO PROTECT SECURITY ELECTRONICS ROOMS.

MOSELEY ARCHITECTS
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MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 033520 ENGINEER JUSTIN P. CARLSON
5/22/19

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990 DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

FP0.1

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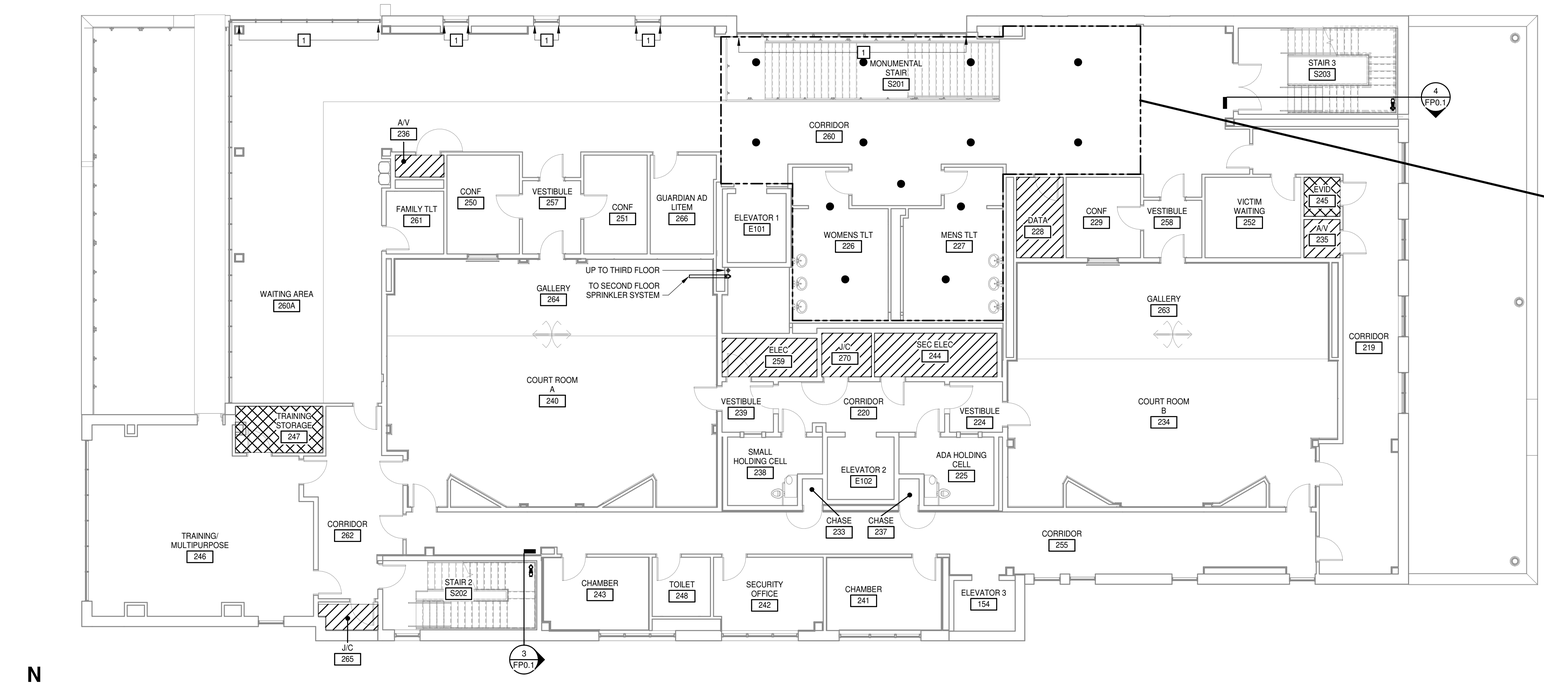

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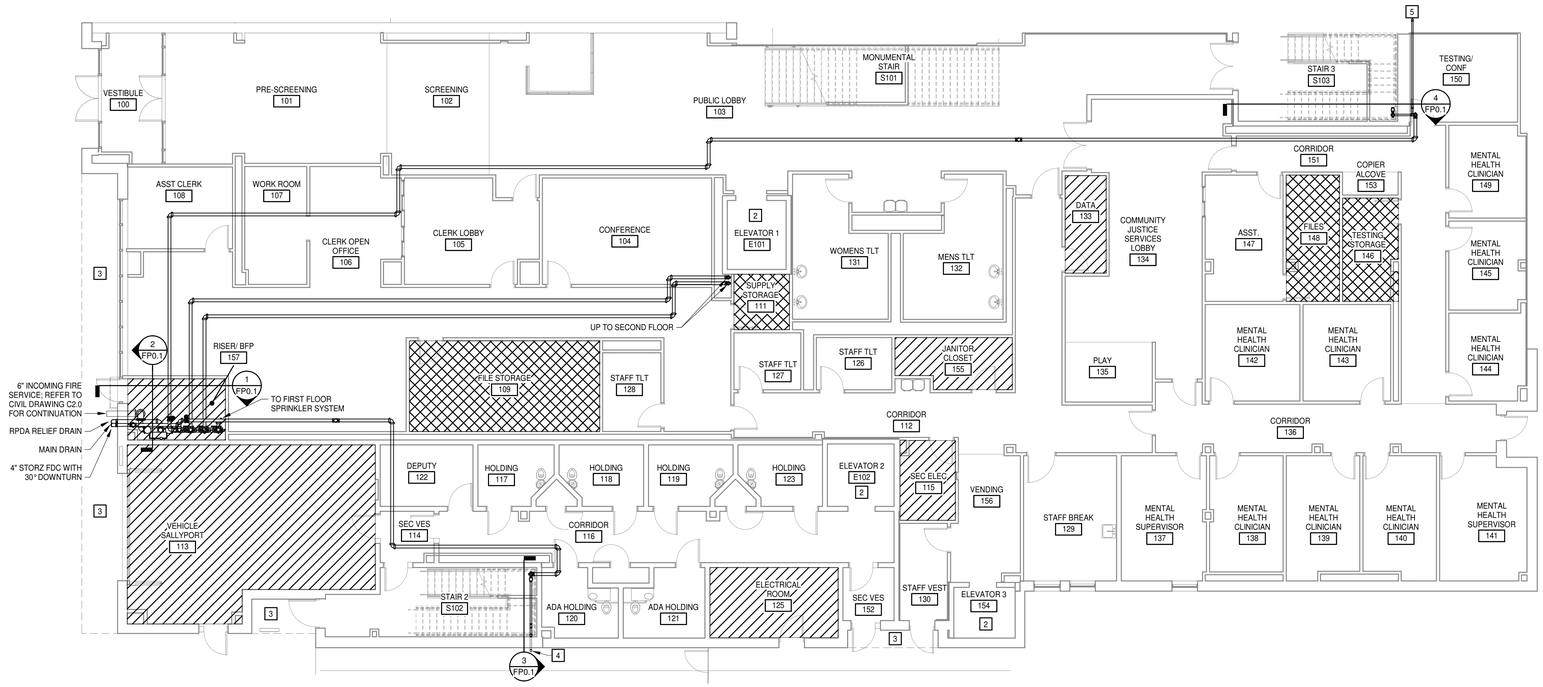
SECOND FLOOR FIRE PROTECTION PLAN

1/8" = 1'-0"



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FIRST FLOOR FIRE PROTECTION PLAN

1/8" = 1'-0"

FIRE PROTECTION KEYNOTES

APPLIES TO DRAWING FP2.1.1
REPRESENTED BY n

1. PROVIDE WATER CURTAIN AT WINDOW TO THE EXTENT INDICATED UTILIZING ORDINARY TEMPERATURE QUICK RESPONSE PENDENT SPRINKLERS INSTALLED IN ACCORDANCE WITH NFPA 13 SECTION 8.15.4.3 AND CALCULATED PER SECTION 11.3.3. THE EXTERIOR WALL AT THE CEILING LEVEL IS CONSIDERED THE DRAFT STOP.
2. PROVIDE SPRINKLERS AT THE BOTTOM OF THE ELEVATOR HOISTWAYS IN ACCORDANCE WITH NFPA 13.
3. PROVIDE DRY SIDEWALL SPRINKLERS TO PROTECT AREAS UNDER EXTERIOR CEILINGS DUE TO OCCUPANCY ABOVE.
4. STAIR 2 STANDPIPE DRAIN LOCATION.
5. STAIR 3 STANDPIPE DRAIN LOCATION.

SECOND FLOOR HYDRAULIC CALCULATION

HAZARD CLASSIFICATION: LIGHT HAZARD

DESIGN DENSITY: .10 GPM/SQ FT

AREA OF APPLICATION: 1,500 SQ FT

NUMBER OF SPRINKLERS: 13, + 105 GPM FOR WATER CURTAIN

K FACTOR: 5.6

SYSTEM FLOW AND PRESSURE: 351 GPM @ 41.8 PSI
HOSE DEMAND: 100 GPM
TOTAL DEMAND: 451 GPM

SAFETY FACTOR: 11 PSI

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NORTH CAROLINA PROFESSIONAL SEAL 033520 ENGINEER JUSTIN P. CARLSON
5/22/19

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

FIRST AND SECOND FLOOR PLANS - FIRE PROTECTION

0' 2' 4' 8' 16'
1/8" = 1'-0"

FP2.1.1

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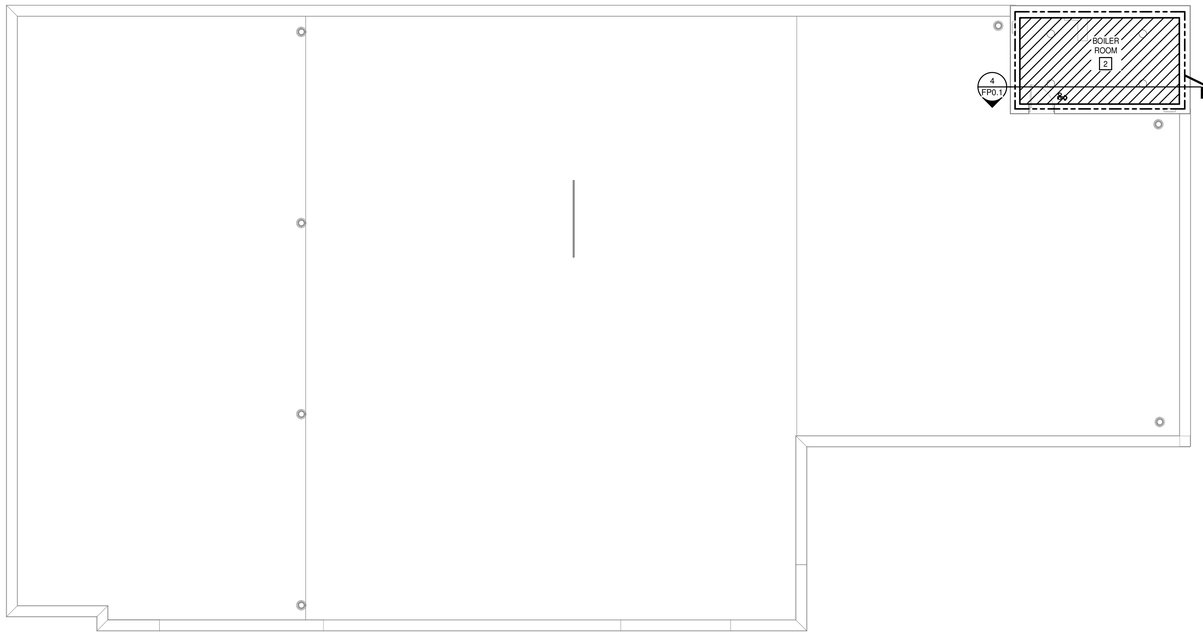
FIRE PROTECTION KEYNOTES

APPLIES TO DRAWINGS FP2.1:2
REPRESENTED BY: n

1. PROVIDE SPRINKLERS AT THE TOPS OF THE ELEVATOR HOISTWAYS IN ACCORDANCE WITH NFPA 13; PROVIDE SUPERVISED CONTROL VALVES ABOVE THE CEILING OUTSIDE EACH HOISTWAY.
2. ROOFTOP BOILER ROOM TO BE SUPPLIED FROM THE THIRD FLOOR WET PIPE SPRINKLER SYSTEM.



ROOF HYDRAULIC CALCULATION

HAZARD CLASSIFICATION: ORDINARY HAZARD, GROUP 1

DESIGN DENSITY: .15 GPM/SQ FT

AREA OF APPLICATION: 224 SQ FT

NUMBER OF SPRINKLERS: 4

K FACTOR: 8.0

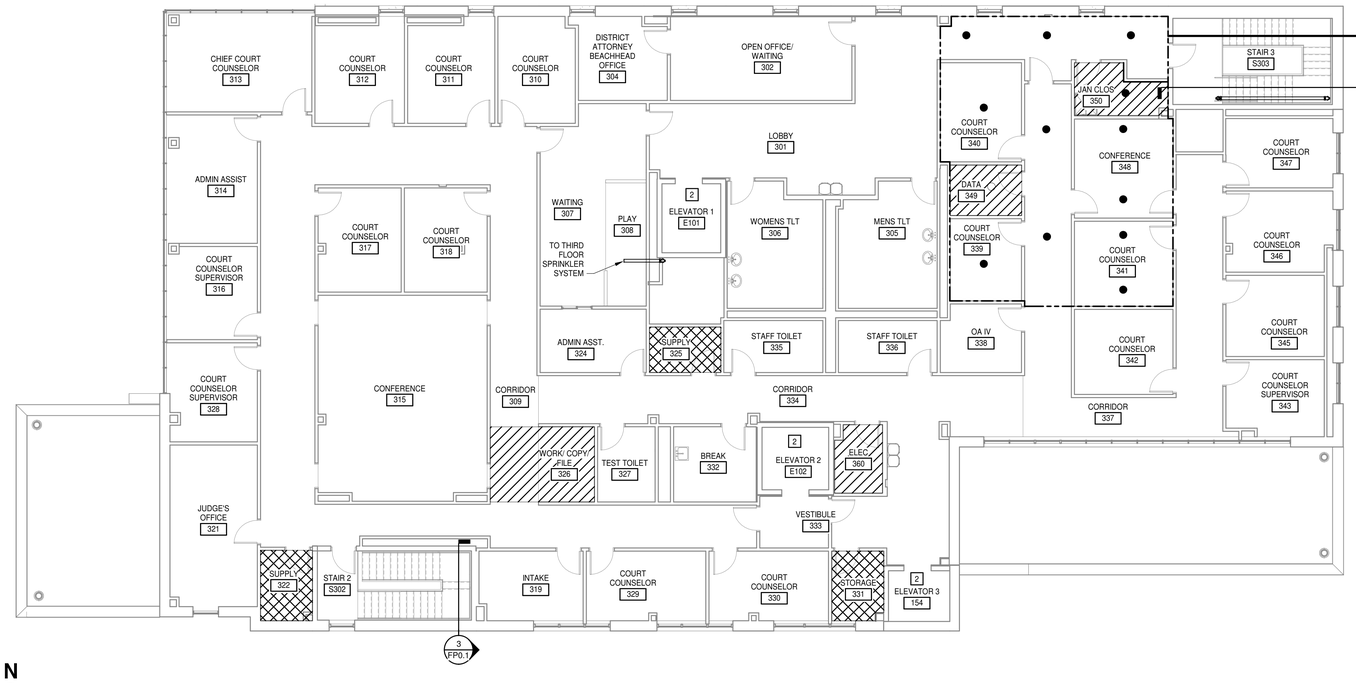
SYSTEM FLOW AND PRESSURE: 85 GPM @ 42.1 PSI
HOSE DEMAND: 250 GPM
TOTAL DEMAND: 335 GPM

SAFETY FACTOR: 11.2 PSI

N

ROOF FIRE PROTECTION PLAN

1/8" = 1'-0"



THIRD FLOOR HYDRAULIC CALCULATION

HAZARD CLASSIFICATION: LIGHT HAZARD

DESIGN DENSITY: .10 GPM/SQ FT

AREA OF APPLICATION: 1,100 SQ FT

NUMBER OF SPRINKLERS: 13

K FACTOR: 5.6

SYSTEM FLOW AND PRESSURE: 238 GPM @ 42 PSI
HOSE DEMAND: 100 GPM
TOTAL DEMAND: 338 GPM

SAFETY FACTOR: 11.2 PSI

N

THIRD FLOOR FIRE PROTECTION PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 033520 ENGINEER JUSTIN P. CARLSON
5/22/19

NEW DJJ FACILITY

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

THIRD FLOOR AND ROOF PLANS - FIRE PROTECTION

FP2.1.2

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EQUIPMENT IDENTIFICATION

AHU	AIR-HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BLOWER COIL UNIT
CCC	CLOSED-CIRCUIT COOLING TOWER
CH	CHILLER
CHWP	CHILLED WATER PUMP
CRAC	COMPUTER ROOM AIR CONDTIONER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
ECH	ELECTRIC CEILING HEATER
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
FCU	FAN COIL UNIT
HP	HEAT PUMP
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
OAU	OUTDOOR AIR UNIT
P	PUMP
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
RTU	ROOFTOP UNIT
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
UH	UNIT HEATER
WSHP	WATER-SOURCE HEAT PUMP

CONTROLS ABBREVIATIONS

AI	ANALOG INPUT TO CONTROLLER
ALM	ALARM
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT FROM CONTROLLER
ATS	AVERAGING TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT TO CONTROLLER
BO	BINARY OUTPUT FROM CONTROLLER
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT-SENSING RELAY
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

ABBREVIATIONS

A	AMPERE(S)
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
COM	COMMON
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRY BULB TEMPERATURE
dBA	A-WEIGHTED DECIBELS
DCW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FAIL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPM	FEET PER MINUTE
FT	FOOT, FEET
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HTG	HEATING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
IPLV	INTEGRATED PART-LOAD VALUE
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NORMALLY CLOSED (FOR PLANS, DETAILS)
NC	NOISE CRITERIA (FOR SCHEDULES)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTAGE, VOLTS
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT(S)
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

GRAPHICS SYMBOLS LEGEND

- **SPACE IDENTIFICATION TAG** (A123): SPACE NUMBER; BUILDING AREA (WHEN USED)
- **EQUIPMENT IDENTIFICATION TAG** (AHU-12): EQUIPMENT NUMBER; UNIT DESIGNATION
- **DIFFUSER, GRILLE OR REGISTER TAG** (S1 / 325): TAG, REFER TO DIFFUSER, GRILLE AND REGISTER SCHEDULE; AIRFLOW (CFM)
- **DETAIL TAG** (1 / M5.1): DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED
- KEYNOTE (15)
- STRUCTURAL GRID LINE WITH DESIGNATION (C)
- EXISTING TO BE REMOVED
- **DETAIL TITLE** (1 / M5.1; 1/4"=1'-0"): DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED; DRAWING WHERE DETAIL IS REFERENCED; ADDITIONAL DRAWING REFERENCES (M2.2, M2.3, M2.4)
- **SECTION TITLE** (1 / M4.1; 1/4"=1'-0"): SECTION NUMBER; DRAWING WHERE SECTION IS INDICATED; DRAWING WHERE SECTION IS REFERENCED; ADDITIONAL DRAWING REFERENCES (M2.2, M2.3, M2.4)
- **SECTION CALLOUT** (1 / M4.1): SECTION NUMBER; DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN CALLOUT** (1 / M3.1): ENLARGED PLAN NUMBER; DRAWING WHERE ENLARGED PLAN IS INDICATED
- MECHANICAL EQUIPMENT WITH REQUIRED SERVICE CLEARANCE INDICATED

DUCTWORK LEGEND

- RECTANGULAR DUCT (FIRST DIMENSION REFERS TO SIDE VIEWED) (18x8)
- ROUND DUCT SIZE (18ø)
- FLAT OVAL DUCT SIZE (18/12)
- DOUBLE WALL, EXPOSED DUCT (18ø)
- FABRIC DUCT (18ø)
- FLEXIBLE DUCTWORK
- FLEXIBLE CONNECTOR
- DUCT-MOUNTED SMOKE DETECTOR (SD)
- DUCT WITH DUCT LINER
- DUCT ACCESS DOOR
- DUCT WITH END CAP
- LINEAR SLOT DIFFUSER, LENGTH AS INDICATED
- LINEAR BAR GRILLE, LENGTH AS INDICATED
- SUPPLY DIFFUSER
- RETURN OR EXHAUST GRILLE
- SUPPLY DIFFUSER WITH DIRECTIONAL BLOW, SOLID HATCH INDICATES BLANK OFF PANEL
- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- SUPPLY AIRFLOW ARROW
- RETURN OR EXHAUST AIRFLOW ARROW
- MANUAL BALANCING DAMPER IN DUCT
- FIRE DAMPER IN DUCT
- SMOKE DAMPER IN DUCT
- COMBINATION FIRE/SMOKE DAMPER IN DUCT (M)
- MOTORIZED DAMPER IN DUCT (M)
- SMOKE CONTROL MANUAL BALANCING DAMPER IN DUCT (M)
- SMOKE CONTROL MOTORIZED DAMPER IN DUCT (SB)
- SECURITY BARS IN DUCT (SB)
- DUCT WITH ACCESS PANEL (AP)
- SUPPLY/MAKEUP AIR DUCT SECTIONS (TO / AWAY)
- RETURN AIR DUCT SECTIONS (TO / AWAY)
- EXHAUST AIR DUCT SECTIONS (TO / AWAY)
- SMOKE DETECTOR (SD)
- HUMIDITY SENSOR (H)
- THERMOSTAT, LINE VOLTAGE (T)
- THERMOSTAT, LOW VOLTAGE (T)
- TEMPERATURE SENSOR (S)
- CARBON DIOXIDE SENSOR (C)
- CARBON MONOXIDE SENSOR (CM)
- SENSOR WELL
- DOOR UNDERCUT (UC)
- DOOR LOUVER (DL)

PIPING LEGEND

- PIPE CAP
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- END OF LINE CLEANOUT PLUG (CO)
- CLEANOUT PLUG (CO)
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER (T)
- UNION
- STRAINER WITH BLOWDOWN VALVE AND 3/4" HOSE END CONNECTION
- FLEXIBLE PIPE CONNECTOR
- MANUAL AIR VENT (MA)
- VALVE
- VALVE IN RISER
- MANUAL BALANCING VALVE WITH FLOW TAPS
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- TRIPLE DUTY VALVE
- GAS COCK
- PRESSURE-RELIEF VALVE (P)
- TWO-WAY CONTROL VALVE (M)
- THREE-WAY CONTROL VALVE (M)
- DIRECTION OF FLOW
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER

GENERAL NOTES

1. RUNOUT SIZES TO DIFFUSERS AND GRILLES ARE THE SAME AS THE DIFFUSER/GRILLE NECK SIZE UNLESS INDICATED OTHERWISE. PROVIDE RECTANGULAR TO ROUND TRANSITIONS WHERE THE BRANCH DUCT IS TALLER THAN THE TRUNK DUCT.

2. PROVIDE RECTANGULAR TO ROUND TRANSITION TO CONNECT FLEXIBLE DUCTWORK TO DIFFUSERS OR GRILLES WITH SQUARE OR RECTANGULAR NECK.

3. ALL OUTDOOR UNIT CONDENSER COILS SHALL HAVE A FACTORY APPLIED EPOXY COATING (BY CATHODIC DISPOSITION) ON THE FINS AND TUBES FOR CORROSION RESISTANCE IN A COASTAL APPLICATION (SALT AIR). COATING SHALL ALSO BE APPLIED TO THE DX COOLING AND HOT GAS REHEAT COILS FOR 100% OUTSIDE AIR UNITS.

CONTROL SYSTEM SYMBOLS

- CIRCULATOR OR PUMP
- MOTORIZED 2-WAY VALVE
- MOTORIZED 3-WAY VALVE
- VARIABLE FREQUENCY DRIVE (VFD)
- DIRECT DIGITAL CONTROLLER (DDC)
- THERMOSTAT (T)
- FREEZESTAT (FZ)
- CONTACTOR (C)
- RELAY (R)
- SPACE TEMPERATURE SENSOR (S)
- LINE VOLTAGE THERMOSTAT (T)
- HAND-OFF-AUTOMATIC SWITCH (H, O, A)
- DUCT-MOUNTED SMOKE DETECTOR (SD)
- TRANSFORMER
- FUSE
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- WIRING OR DEVICE PROVIDED UNDER DIVISION 23
- WIRING OR DEVICE NOT PROVIDED UNDER DIVISION 23
- WIRING CONNECTION BY DIVISION 23
- WIRING CONNECTION BY OTHERS
- NUMBER OF CONDUCTORS INDICATED BY SLASH MARKS
- MOTORIZED PARALLEL BLADE DAMPER
- MOTORIZED OPPOSED BLADE DAMPER
- MOTORIZED BUTTERFLY BLADE DAMPER
- SUPPLY, RETURN, OR EXHAUST FAN
- AIRFLOW DIRECTION
- CONTROL POINT INDICATOR (AI / TS): INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (AIR TEMPERATURE SENSOR)
- CONTROL POINT INDICATOR (AI / TS): INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (AIR TEMPERATURE SENSOR WITH AVERAGING ELEMENT)
- CONTROL POINT INDICATOR (AI / TS): INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (WATER TEMPERATURE SENSOR WITH BULB TYPE ELEMENT IN PIPING WELL)
- CONTROL POINT INDICATOR (AI / CSR): INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (CURRENT SENSING RELAY)

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITIVELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION.

C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECTS PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.

E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT.

H. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED.

I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND REPLACEMENT.

J. SIZE ALL SPLIT-SYSTEM REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

K. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR.

L. FOR LOCATION OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

M. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE.

N. BRANCH PIPING RUNOUTS TO TERMINAL UNITS SHALL BE 3/4" DIAMETER UNLESS INDICATED OTHERWISE.

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NORTH CAROLINA PROFESSIONAL SEAL 033520 ENGINEER JUSTIN P. CARLSON
5/22/19

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990 | DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

M0.1

5/22/2019 8:42:52 AM

FAN SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN WC)	FAN WHEEL (RPM)	DRIVE TYPE	SONES	CONTROL METHOD	MOTOR (HP)	ELECTRICAL DATA (V)	(PH)	(HZ)	WEIGHT (LBS)	NOTES
EF-1	GREENHECK	G-123-VG	FIRST AND SECOND FLOOR	ROOF MTD. CENTRIFUGAL	2295	0.38 in-wg	1664	Direct	15.9	BAS	1/2	120	1	60	57	1,2
EF-2	GREENHECK	G-95-VG	THIRD FLOOR	ROOF MTD. CENTRIFUGAL	860	0.38 in-wg	1583	Direct	9	BAS	1/6	120	1	60	38	1,2
EF-259	GREENHECK	SQ-75-VG	ELECTRICAL	INLINE CENTRIFUGAL	220	0.25 in-wg	1300	DIRECT	5.4	BAS	1/4	120	1	60	26	1,2,4
EF-BOILER	GREENHECK	SQ-70-VG	BOILER ROOM	INLINE CENTRIFUGAL	250	0.25 in-wg	1725	DIRECT	6.4	BAS	1/15	115	1	60	42	1,2,4
EF-ELEC125	GREENHECK	SQ-85-VG	ELECTRICAL	INLINE CENTRIFUGAL	375	0.25 in-wg	1300	DIRECT	5	BAS	1/4	120	1	60	41	1,2,4
EF-ELEC360	GREENHECK	SQ-75-VG	ELECTRICAL	INLINE CENTRIFUGAL	220	0.25 in-wg	1300	DIRECT	5.4	BAS	1/4	120	1	60	26	1,2,4
EF-VSP	GREENHECK	SQ-100-VG	VEHICLE SALLYPORT	INLINE CENTRIFUGAL	1100	0.25 in-wg	1550	DIRECT	16	BAS	1/4	120	1	60	56	1,2,4

NOTES:
1. PROVIDE VARI-GREEN FAN MOTOR.
2. PROVIDE FAN WITH FUSED DISCONNECT SWITCH, GRAVITY BACKDRAFT DAMPER, ROOF CURB (IF ROOF MTD), SPEED CONTROLLER AND VIBRATION ISOLATORS.
3. FACTORY DISCONNECT SWITCH, BUILT IN THERMAL OVERLOAD PROTECTION, ROOF CURB, GREASE CUP/COLLECTOR, TEMPERATURE CONTROL INTERLOCK. VARIABLE SPEED FAN, VFD'S IN KITCHEN HOOD CONTROL PACKAGE.
4. PROVIDE FAN WITH INLET SCREEN/GUARD.
5. FAN CONTROLLED BY WALL MOUNTED TWIST TIMER, 0-30 MINUTE RANGE WITH LABEL INDICATING ROOM FAN CONTROL.
6. MANUFACTURERS DISCONNECT SWITCH, END SWITCH, MOTORIZED DAMPER, WALL HOUSING, MOTOR GUARD, GREENHECK LOUVER MODEL EDJ-430, VARI-GREEN MOTOR.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	NECK SIZE	FACE SIZE	MAX NC LEVEL	NOTES
S1	PRICE	SPD	6"	24X24	25	1,2
S2	PRICE	SPD	8"	24X24	25	1,2
S3	PRICE	SPD	10"	24X24	25	1,2
S4	PRICE	SPD	8"	12X12	25	1,2
S5	PRICE	SPD	10"	12X12	25	1,2
S6	PRICE	SDGE	12X8	14X10	25	1,2,5
S7	PRICE	MSPG	6x6	8x8	25	3
S8	PRICE	510	8X8	10X10	25	1,2
R1	PRICE	10A	22X22	24X24	25	1
R2	PRICE	530	8X8	12X12	25	1,2,4
R3	PRICE	MSPG	6X6	8X8	25	3
R4	PRICE	530	24X8	26X10	25	1,2
R5	PRICE	530	8X8	24X24	25	1,2,4
E1	PRICE	PDDR	6X6	12X12	25	1,2
E2	PRICE	MSPG	6X6	8X8	25	3
E3	PRICE	530	8X8	10X10	25	1,2
E4	PRICE	PDDR	6X6	24X24	25	1,2
E5	PRICE	PDDR	8X8	24X24	25	1,2
E6	PRICE	530	12x10	14x14	25	1,2
E7	PRICE	530	6x6	8x8	25	1,2

NOTES:
1. PROVIDE WITH BORDER TYPE 31 FOR LAY-IN & BORDER TYPE F FOR CEILING/SURFACE MOUNTED. PROVIDE PLASTER FRAME WHEN SURFACE MOUNTED (IF AVAILABLE). COORDINATE WITH ARCHITECTURAL TO DETERMINE WHICH GRILLES/DIFFUSERS WILL BE SURFACE MOUNTED OR LAY-IN.
2. INCLUDE OPPOSED BLADE DAMPER, ACCESSIBLE THROUGH GRILLE WHERE AVAILABLE.
3. INCLUDE FACE OPERATED DAMPER, STEEL CONSTRUCTION WITH MOUNTING ANGLE FRAME.
4. INCLUDE PANEL MOUNT.
5. INCLUDE AIR SCOOP.

EXPANSION TANK SCHEDULE

TAG	MFR	MODEL NUMBER	TYPE	TANK VOLUME (GAL)	ACCEPTANCE (GAL)	WEIGHT (LBS)	NOTES
ET-1	ARMSTRONG	85-L	BLADDER	23	23	90	1,2

NOTES:

1. ASME RATED FOR 125 PSI & 240F.
2. FULL ACCEPTANCE REMOVABLE BUTYL RUBBER BLADDER.

ROOFTOP UNIT SCHEDULE (WITH ECONOMIZER)

TAG	MANUFACTURER	MODEL NUMBER	SUPPLY FAN DESIGN AIRFLOW (CFM)	SUPPLY FAN ESP (IN WC)	SUPPLY FAN HP	OUTSIDE AIRFLOW (CFM)	RETURN FAN DESIGN AIRFLOW (CFM)	RETURN FAN ESP (IN WC)	RETURN FAN HP	DX COOLING COIL TOTAL CAPACITY (BTUH)	DX COOLING COIL SENSIBLE CAPACITY (BTUH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	HEATING COIL SENSIBLE CAPACITY (BTUH, OUTPUT)	HEATING COIL EAT (°F)	HEATING COIL LAT (°F)	ELECTRICAL DATA MCA (A)	MOCP (A)	SERVICE (V)	(PH)	(HZ)	WEIGHT (LBS)	NOTES
RTU-1	TRANE	SLHKC90	24,000	2.80	30	5,810	22,000	0.60	15	1,060,000	670,000	80.7	67.1	54.5	52.3	800,000	55.0	85.7	231.2	250	460	3	60	15,556	1

1. OUTSIDE AIRFLOW MONITOR, BUILDING PRESSURE CONTROL, ECONOMIZER, ROOF CURB. UNIT MOUNTED DISCONNECT BY FACTORY. NATURAL GAS HEATING FURNACE. LON OR BACNET INTERFACE. DIRECT DRIVE PLENUM FAN(S).

AIR SEPARATOR SCHEDULE

TAG	MFR	MODEL NUMBER	SERVING	LOCATION	INLET SIZE (IN)	OUTLET SIZE (IN)	FLOW RATE (GPM)	WATER PRESSURE DROP (FT WC)	DRAIN SIZE (IN)	WEIGHT (LBS)
AS-1	BELL & GOSSETT	RL-3FB	BUILDING LOOP	MECHANICAL ROOM	3	3	40	0.10	2	173

CONDENSING BOILER SCHEDULE

TAG	MFR	MODEL	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	FUEL TYPE	MINIMUM FUEL INLET PRESSURE (IN WC)	MAXIMUM FUEL INLET PRESSURE (IN WC)	EWT (°F)	LWT (°F)	DESIGN FLOW RATE (GPM)	WATER PRESSURE DROP AT DESIGN (FT WC)	COMBUSTION AIR INLET (IN)	COMBUSTION AIR OUTLET (IN)	WATER INLET (IN)	WATER OUTLET (IN)	FUEL INLET (IN)	ELECTRICAL DATA FLA (A)	SERVICE (V)	(PH)	(HZ)	NOTES
B-1	LOCHINVAR	KBN400	399	371	NATURAL GAS	3.5	14.0	120	160	18	5	5	4	1 1/2"	1 1/2"	1.0	10	120	1	60	1
B-2	LOCHINVAR	KBN400	399	371	NATURAL GAS	3.5	14.0	120	160	18	5	5	4	1 1/2"	1 1/2"	1.0	10	120	1	60	1

1. ACCEPTABLE ALTERNATES BY AERCO & FULTON. WATER FLOW SWITCH, LOW WATER CUTOFF, PRESSURE RELIEF VALVE, LONWORKS OR BACNET INTERFACE BMS GATEWAY, CONDENSATE NEUTRALIZATION KIT, DISCONNECT BY DIV 26. PROVIDE EACH BOILER WITH VARIABLE SPEED BOILER CIRCULATOR PUMP BY BOILER MANUFACTURER (18 GPM @ 35 FT HEAD, 120V, PART # PUM20077), PUMP DISCONNECT BY DIV 26. SIDEWALL TERMINATION OF AIR & VENT KIT (#100157612). INTEGRAL BOILER SEQUENCER CONTROLLER.

FAN POWERED TERMINAL UNIT SCHEDULE(HW)

TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE INLET DIAMETER (IN)	MAXIMUM AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	APD AT MAXIMUM AIR FLOW (IN WC)	FAN AIRFLOW (CFM)	FAN ESP (IN WC)	COIL DESIGN AIRFLOW (CFM)	CAPACITY (BTUH)	UNIT LAT (°F)	FLOW RATE (GPM)	WATER PRESSURE DROP (FT WC)	ELECTRICAL DATA MCA (A)	MOCP (A)	SERVICE V	PH	HZ	WEIGHT (LBS)	NOTES
TU1-1	TRANE	VPWF	8	640	195	0.10	190	0.25	385	10000.0	89.4	0.8	0.50	2.0	15	120	1	60	92	1,2,3,4,5
TU1-2	TRANE	VPWF	10	765	320	0.10	320	0.25	640	19000.0	89.9	1.1	1.30	2.0	15	120	1	60	92	1,2,3,4,5
TU1-2B	TRANE	VPWF	8	700	315	0.15	315	0.25	630	17400.0	88.0	0.8	0.80	2.0	15	120	1	60	92	1,2,3,4,5
TU1-3	TRANE	VPWF	5	210	100	0.10	125	0.25	225	7400.0	93.4	0.5	0.20	2.0	15	120	1	60	92	1,2,3,4,5
TU1-4	TRANE	VPWF	10	975	295	0.09	265	0.25	560	16000.0	88.4	0.8	0.43	2.0	15	120	1	60	92	1,2,3,4,5
TU1-8	TRANE	VPWF	8	480	150	0.15	150	0.25	300	11000.0	96.3	0.5	0.30	2.0	15	120	1	60	92	1,2,3,4,5
TU1-10	TRANE	VPWF	5	170	100	0.25	125	0.25	225	7400.0	93.5	0.5	0.20	2.0	15	120	1	60	92	1,2,3,4,5
TU1-11	TRANE	VPWF	5	315	100	0.10	125	0.25	225	7400.0	93.5	0.5	0.20	2.0	15	120	1	60	92	1,2,3,4,5
TU1-12	TRANE	VPWF	8	620	190	0.10	190	0.25	380	10100.0	87.1	0.8	0.50	2.0	15	120	1	60	92	1,2,3,4,5
TU1-13	TRANE	VPWF	5	305	95	0.15	125	0.25	220	7400.0	94.4	0.5	0.20	2.0	15	120	1	60	92	1,2,3,4,5
TU2-1A	TRANE	VPWF	14	2575	770	0.50	820	0.25	1590	47000.0	90.0	1.9	0.90	6.9	15	120	1	60	110	1,2,3,4,5
TU2-1B	TRANE	VPWF	10	1070	350	0.25	340	0.25	690	31000.0	103.8	1.2	1.70	2.0	15	120	1	60	110	1,2,3,4,5
TU2-7	TRANE	VPWF	10	1100	330	0.10	330	0.25	660	20600.0	91.2	1.4	1.30	2.0	15	120	1	60	95	1,2,3,4,5
TU2-8	TRANE	VPWF	12	1605	645	0.20	655	0.25	1300	32000.0	85.0	2.3	1.30	5.4	15	120	1	60	110	1,2,3,4,5
TU2-9	TRANE	VPWF	10	1445	410	0.40	410	0.25	820	24500.0	90.0	1.7	3.20	2.0	15	120	1	60	110	1,2,3,4,5
TU3-1	TRANE	VPWF	8	780	235	0.20	235	0.25	470	13000.0	88.0	2.1	2.70	2.0	15	120	1	60	110	1,2,3,4,5
TU3-2	TRANE	VPWF	5	300	100	0.20	125	0.25	225	8000.0	96.1	0.7	0.40	2.0	15	120	1	60	110	1,2,3,4,5
TU3-3	TRANE	VPWF	6	370	100	0.20	160	0.25	260	9100.0	96.2	0.7	0.40	2.0	15	120	1	60	110	1,2,3,4,5
TU3-4	TRANE	VPWF	6	500	150	0.35	200	0.25	350	13000.0	97.8	0.7	0.70	2.0	15	120	1	60	110	1,2,3,4,5
TU3-5	TRANE	VPWF	12	1540	550	0.10	510	0.25	1060	26200.0	85.0	1.3	0.60	5.4	15	120	1	60	110	1,2,3,4,5
TU3-10	TRANE	VPWF	8	735	225	0.20	225	0.25	450	12500.0	88.1	0.6	0.30	2.0	15	120	1	60	92	1,2,3,4,5
TU3-11	TRANE	VPWF	8	530	170	0.10	170	0.25	340	9500.0	91.8	0.8	0.50	2.0	15	120	1	60	95	1,2,3,4,5
TU3-14	TRANE	VPWF	10	950	285	0.01	285	0.25	570	14000.0	88.8	1.9	2.18	2.0	15	120	1	60	93	1,2,3,4,5
TU3-15	TRANE	VPWF	10	1430	395	0.16	440	0.25	835	18600.0	83.4	0.8	0.49	2.0	15	120	1	60	93	1,2,3,4,5
TU3-16	TRANE	VPWF	6	420	125	0.26	125	0.25	250	6700.0	87.2	0.5	0.06	2.0	15	120	1	60	91	1,2,3,4,5

NOTES:
1. ACCEPTABLE ALTERNATES ARE BY ENVIRO-TEC AND TITUS.
2. PRESSURE INDEPENDENT WITH FOIL FACED LINER. INCLUDE 120-24 VOLT TRANSFORMER WITH FUSE AND TOGGLE DISCONNECT SWITCH (BOXES TO BE SUPPLIED WITH 120V POWER).
3. MINIMUM CFM INDICATED SHALL BE WITHIN THE MINIMUM RANGE OF THE DDC CONTROLLER.
4. MAX RADIATED SOUND LEVEL AT 2" INLET PRESSURE SHALL BE NC OF 35.
5. HOT WATER ENTERING/LEAVING TEMPERATURE SHALL BE 160/120 DEGREES F. ALL PIPE SIZE RUNOUTS TO BOXES ARE 3/4" UNLESS NOTED OTHERWISE ON DRAWINGS. MAX FLUID PRESSURE DROP IS 15 FT.

ELECTRIC UNIT HEATER SCHEDULE

TAG	MFR	MODEL NUMBER	LOCATION	TYPE	HEATING CAPACITY (KW)	AIRFLOW (CFM)	ELECTRICAL DATA (V)	(PH)	(HZ)	WEIGHT (LBS)	NOTES
UH-ELEC	QMARK	MUH-03-21	ELECTRICAL	CEILING	2.2	350	208	1	60	27	2
UH-S102	MARKEL	F3452T	STAIRS	RECESSED WALL	2.0	175	208	1	60	55	1
UH-S103	MARKEL	F3452T	STAIRS	RECESSED WALL	2.0	175	208	1	60	55	1
UH-S202	MARKEL	F3452T	STAIRS	RECESSED WALL	2.0	175	208	1	60	55	1
UH-S203	MARKEL	F3452T	STAIRS	RECESSED WALL	2.0	175	208	1	60	55	1
UH-S302	MARKEL	F3452T	STAIRS	RECESSED WALL	2.0	175	208	1	60	55	1
UH-S303	MARKEL	F3452T	STAIRS	RECESSED WALL	2.0	175	208	1	60	55	1

NOTES:
1. WALL MOUNTED RECESSED UNIT HEATER, BUILT IN THERMOSTAT AND DISCONNECT BY MANUFACTURER, SET THERMOSTAT TO 70 DEGREES F.
2. DISCONNECT BY MANUFACTURER, CEILING HANGING BRACKET, 24V CONTROL TRANSFORMER.

HOT WATER UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	TYPE	TOTAL CAPACITY (BTUH)	AIR FLOW (CFM)	EAT (°F)	HYDRONIC HEATING COIL FLOW RATE (GPM)	EWT (°F)	WATER PRESSURE DROP (FT WC)	ELECTRICAL DATA SERVICE V	PH	HZ	WEIGHT (LBS)	NOTES
HWUH-1	TRANE	S-A36	CEILING	23,000	750	60	1.2	160	3.00	120	1	60	25	1,2
HWUH-2	TRANE	S-A18	CEILING	11,350	500	60	0.8	160	0.50	120	1	60	24	1

NOTES:
1. HORIZONTAL DELIVERY, ADJUSTABLE AIR DEFLECTOR BLADES, SAFETY FAN GUARD, POWDER COATED STEEL CASING, HANGING BRACKET & LINE-VOLTAGE WALL MOUNTED THERMOSTAT (INSTALLED BY DIV 26). FUSED DISCONNECT SWITCH FROM FACTORY. FAN MOTORS WITH BUILT IN THERMAL OVERLOAD PROTECTION. ACCEPTABLE ALTERNATES BY MODINE.
2. LOCKING THERMOSTAT COVER.

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	OPERATING DATA FLOW (GPM)	HEAD (FT WC)	SUCTION SIZE (IN)	DISCHARGE SIZE (IN)	IMPELLER SIZE (IN)	MOTOR RPM	MOTOR (HP)	ELECTRICAL DATA V	PH	HZ	NOTES
P-1	ARMSTRONG	4380	SECONDARY HEATING HOT WATER	VERTICAL SENSORLESS	40.0	90	1.5	1.5	5.400	3177	3	460	3	60	1,2,3,4,5
P-2	ARMSTRONG	4380	SECONDARY HEATING HOT WATER	VERTICAL SENSORLESS	40.0	90	1.5	1.5	5.400	3177	3	460	3	60	1,2,3,4,5

NOTES:
1. PUMP SHALL BE OPERATED FROM UNIT MOUNTED INTEGRATED CONTROLLER PROVIDED AND WIRED BY THE MANUFACTURER AT THE FACTORY WITH SINGLE POINT WIRING CONNECTION.
2. PUMP SHALL BE PROVIDED WITH PREMIUM EFFICIENT MOTOR SUITABLE FOR VFD USE.
3. COMMISIONING AND BALANCING OF PUMP SHALL BE ACCOMPLISHED WITH INTEGRATED CONTROL WITHOUT THROTTLING OF PUMP.
4. ACCEPTABLE ALTERNATES BY TACO OR BELL & GOSSETT.
5. INVERTER DUTY MOTOR FOR USE WITH A VFD, INCLUDE MOTOR MOUNTED VFD WITH DISCONNECT & BYPASS. SENSORLESS CONTROLS.

TERMINAL UNIT SCHEDULE(HW)

TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE INLET DIAMETER (IN)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	APD AT MAX AIR FLOW (IN-WC)	COIL DESIGN AIRFLOW (CFM)	CAPACITY (MBH)	EAT (°F)	LAT (°F)	FLOW RATE (GPM)	ROWS (NO)	NOTES
TU1-2A	TRANE	VCWF	5	310	165	0.10	165	5.9	55	87.7	0.5	2	1,2,3,4,5
TU1-5	TRANE	VCWF	8	515	315	0.40	315	14.3	55	95.6	0.8	3	1,2,3,4,5
TU1-6	TRANE	VCWF	6	405	200	0.35	200	9.2	55	97.2	0.5	3	1,2,3,4,5
TU1-7	TRANE	VCWF	8	525	280	0.30	280	14.3	55	102.1	0.8	3	1,2,3,4,5
TU1-9	TRANE	VCWF	8	555	430	0.20	430	14.4	55	86.0	0.8	2	1,2,3,4,5
TU2-2	TRANE	VCWF	5	380	165	0.15	165	5.9	55	87.7	0.5	2	1,2,3,4,5
TU2-3	TRANE	VCWF	5	305	120	0.10	120	5.0	55	93.1	0.5	2	1,2,3,4,5
TU2-4	TRANE	VCWF	10	1305	590	0.45	590	23.1	55	91.1	1.1	2	1,2,3,4,5
TU2-5	TRANE	VCWF	5	250	150	0.10	150	5.4	55	88.3	0.5	2	1,2,3,4,5
TU2-6	TRANE	VCWF	10	1200	590	0.45	590	23.1	55	91.0	1.1	2	1,2,3,4,5
TU3-6	TRANE	VCWF	6	420	225	0.45	225	11.4	55	101.7	0.6	4	1,2,3,4,5
TU3-7	TRANE	VCWF	5	130	125	0.10	125	5.0	55	92.1	0.5	2	1,2,3,4,5
TU3-8	TRANE	VCWF	5	260	125	0.15	125	6.6	55	103.6	0.5	3	1,2,3,4,5
TU3-9	TRANE	VCWF	5	350	130	0.15	130	6.8	55	102.9	0.5	3	1,2,3,4,5
TU3-12	TRANE	VCWF	8	600	325	0.30	325	10.9	55	85.9	0.6	2	1,2,3,4,5
TU3-13	TRANE	VCWF	8	565	285	0.25	285	13.2	55	97.7	0.9	2	1,2,3,4,5

NOTES:
1. ACCEPTABLE ALTERNATES ARE BY ENVIRO-TEC AND TITUS.
2. PRESSURE INDEPENDENT WITH FOIL FACED LINER. INCLUDE 120-24 VOLT TRANSFORMER WITH FUSE AND TOGGLE DISCONNECT SWITCH (BOXES TO BE SUPPLIED WITH 120V POWER).
3. MINIMUM CFM INDICATED SHALL BE WITHIN THE MINIMUM RANGE OF THE DDC CONTROLLER.
4. MAX RADIATED SOUND LEVEL AT 2" INLET PRESSURE SHALL BE NC OF 35.
5. HOT WATER ENTERING/LEAVING TEMPERATURE SHALL BE 160/120 DEGREES F. ALL PIPE SIZE RUNOUTS TO BOXES ARE 3/4" UNLESS NOTED OTHERWISE ON DRAWINGS. MAX FLUID PRESSURE DROP IS 15 FT.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

TAG	LOCATION	SUPPLY AIR (CFM)	MANUFACTURER	MODEL NUMBER	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	INDOOR EAT (°F) DB	WB	ELECTRICAL DATA MCA (A)	MOCP (A)	SERVICE V	PH	HZ	WEIGHT (LBS)	NOTES
DSS-1	133 DATA	420	MITSUBISHI	PKA-A18HA7	17200	12728	80	67	1.0	20	208	1	60	29	1,2,3,4
DSS-2	228 DATA	420	MITSUBISHI	PKA-A18HA7	17200	12728	80	67	1.0	20	208	1	60	29	1,2,3,4
DSS-3	224 DATA	420	MITSUBISHI	PKA-A18HA7	17200	12728	80	67	1.0	20	208	1	60	29	1,2,3,4
DSS-4	349 DATA	420	MITSUBISHI	PKA-A18HA7	17200	12728	80	67	1.0	20	208	1	60	29	1,2,3,4
DSS-5	SECURITY ELEC 115	420	MITSUBISHI	PKA-A18HA7	17200	12728	80	67	1.0	20	208	1	60	29	1,2,3,4

NOTES (APPLY TO DSS AND CU UNITS):
1. CAPACITY BASED ON INDOOR AND OUTDOOR UNITS OPERATING TOGETHER WITH AN OUTSIDE AMBIENT AIR TEMPERATURE OF 95°F SUMMER, 47°F WINTER. ENTERING AIR TEMP COOLING: 80/67, ENTERING AIR TEMP WINTER: 70°F SET THERMOSTAT TO 75F COOLING AND 70F HEATING.
2. UNIT TO HAVE R-410A. REFRIGERANT PIPING BETWEEN THE INDOOR AND OUTDOOR UNIT SHALL BE SIZED BY AC-UNIT MANUFACTURER. ALL VALVES AND FITTINGS REQUIRED TO COMPLY WITH AC-UNIT MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE PROVIDED. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS FOR "LONG LINE" APPLICATION IF NECESSARY. INDOOR UNIT POWERED BY OUTDOOR UNIT VIA CONNECTING CABLE.
3. INCLUDE THE FOLLOWING OPTIONS: LOW AMBIENT CONTROLLER, CRANKCASE HEATER, WINTER START KIT, ISOLATION RELAY, HIGH AND LOW PRESSURE SWITCHES, DISCONNECT SWITCHES PROVIDED BY DIV 26.
4. HIGH WALL REMOTE THERMOSTAT.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	LOCATION	AMBIENT AIR TEMPERATURE (°F)	ELECTRICAL DATA MCA (A)	MOCP (A)	SERVICE V	PH	HZ	REFRIGERANT	WEIGHT (LBS)	NOTES
CU-1	MITSUBISHI	PUZ-A18NKA7	ROOF	95.0	13	20	208	1	60	R-410A	89	1,2,3,4
CU-2	MITSUBISHI	PUZ-A18NKA7	ROOF	95.0	13	20	208	1	60	R-410A	89	1,2,3,4
CU-3	MITSUBISHI	PUZ-A18NKA7	ROOF	95.0	13	20	208	1	60	R-410A	89	1,2,3,4
CU-4	MITSUBISHI	PUZ-A18NKA7	ROOF	95.0	13	20	208	1	60	R-410A	89	1,2,3,4
CU-5	MITSUBISHI	PUZ-A18NKA7	ROOF	95.0	13	20	208	1	60	R-410A	89	1,2,3,4

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033520 JUSTIN P. CARLSON
5/22/19

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

SCHEDULES

M0.2

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KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY n

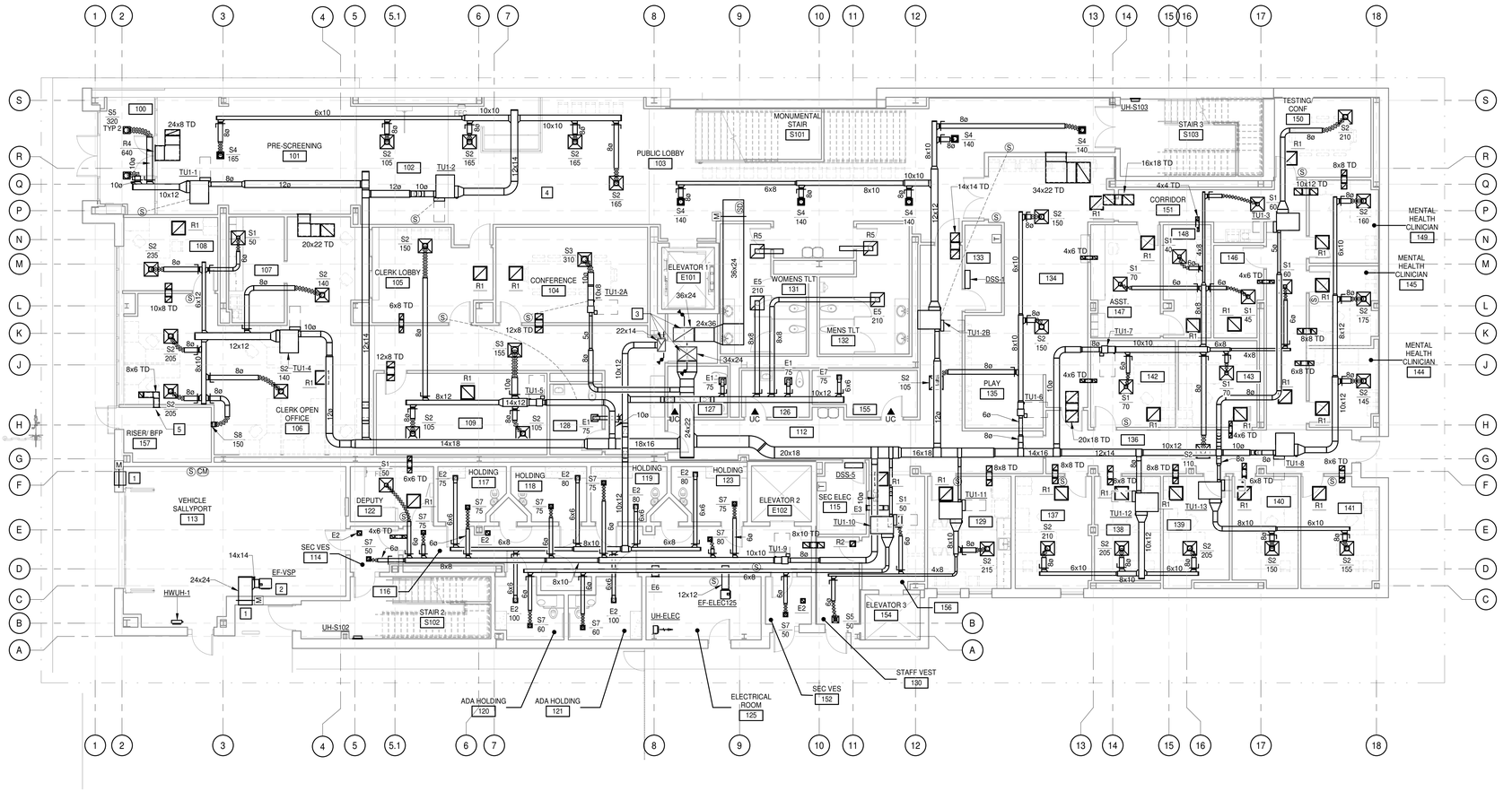
1. MINIMUM LOUVER FREE AREA IS 2.2 SF. SEE ARCHITECTURAL PLANS FOR LOUVER SIZE. PROVIDE MOTORIZED DAMPER (120V, 2-POSITION, INCLUDE TRANSFORMERS AS REQUIRED) AND SECTION OF DUCTWORK ON THE BACK SIDE OF LOUVER OR A COMBINATION LOUVER-DAMPER. INTERLOCK WITH SPACE EXHAUST FAN OPERATION.

2. INSTALL FAN AND LOUVER AS HIGH AS PRACTICAL, MINIMUM 3 FEET ABOVE ANY ADJACENT DOOR.

3. PROVIDE COMBINATION FIRE-SMOKE DAMPER WHERE DUCTS EXIT MECHANICAL SHAFT.

4. APPROXIMATE LOCATION (IN PLENUM) OF BUILDING STATIC PRESSURE SENSOR FOR DAMPER AND RETURN FAN CONTROL.

5. TERMINATE TRANSFER DUCT OPENING WITH 1/2" WWM.



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FIRST FLOOR - DUCTWORK PLAN
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
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DATE	DESCRIPTION

FIRST FLOOR
DUCTWORK PLAN

M2.1.1

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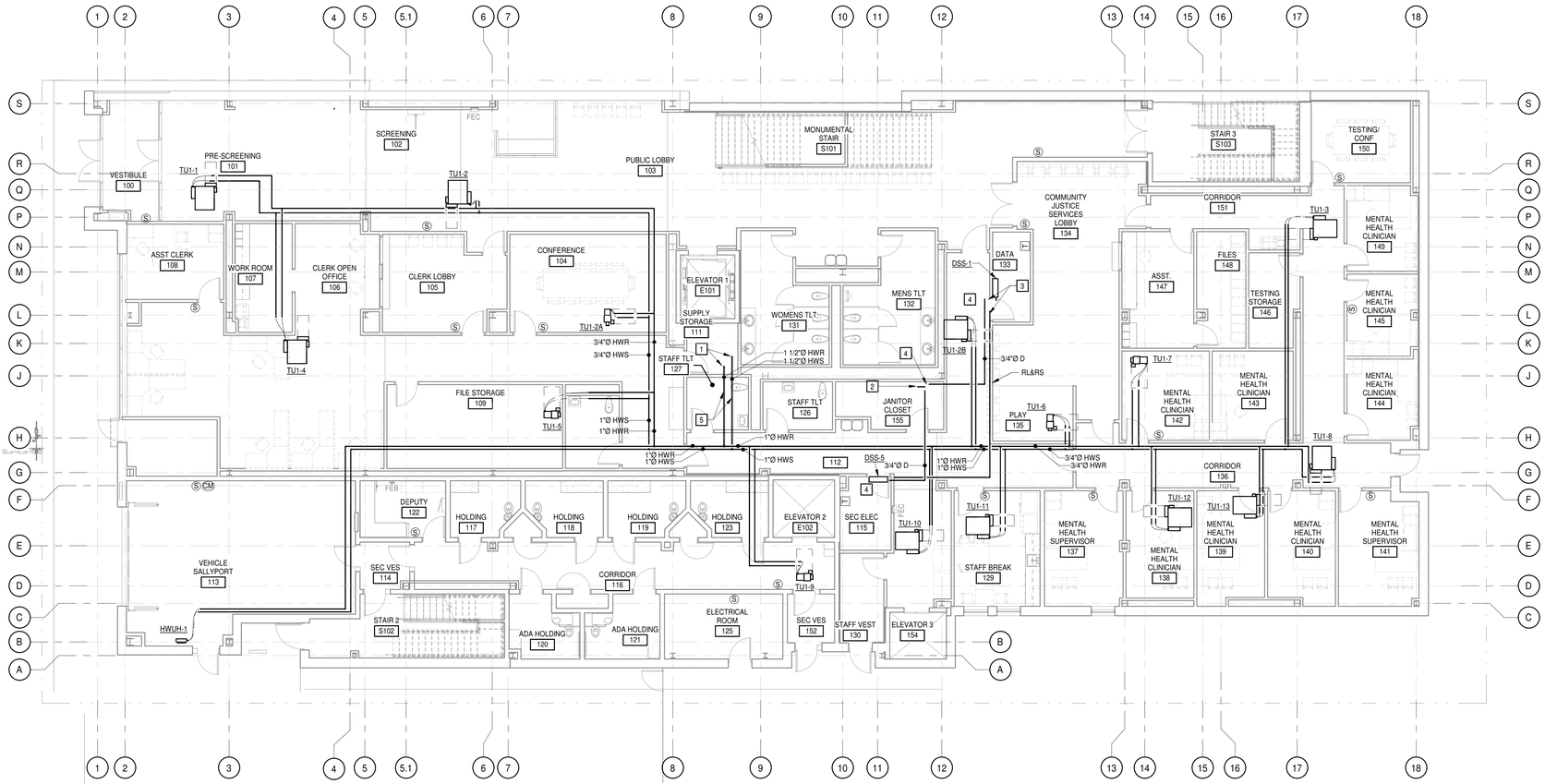
KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY n

1. HEATING HOT WATER SUPPLY AND RETURN PIPING UP TO FLOOR ABOVE.
2. CONDENSATE DRAIN DOWN FROM SECOND FLOOR.
3. REFRIGERANT PIPING UP TO SECOND FLOOR. SINGLE PIPE SHOWN FOR CLARITY PURPOSES ONLY, REPRESENTS MULTIPLE RL AND RS LINESETS.
4. INSTALL UNIT HIGH ENOUGH FOR SLOPED CONDENSATE DRAIN PIPING DIRECTED TO TERMINATION POINT. EXTEND TO MOP SINK WITHIN JANITORS CLOSET, SECURE TO WALL WITH UNISTRUT.
5. PROVIDE ISOLATION SHUTOFF VALVES ON HWS AND HWR PIPING.



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FIRST FLOOR - PIPING PLAN
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NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
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DATE	DESCRIPTION

FIRST FLOOR
PIPING PLAN

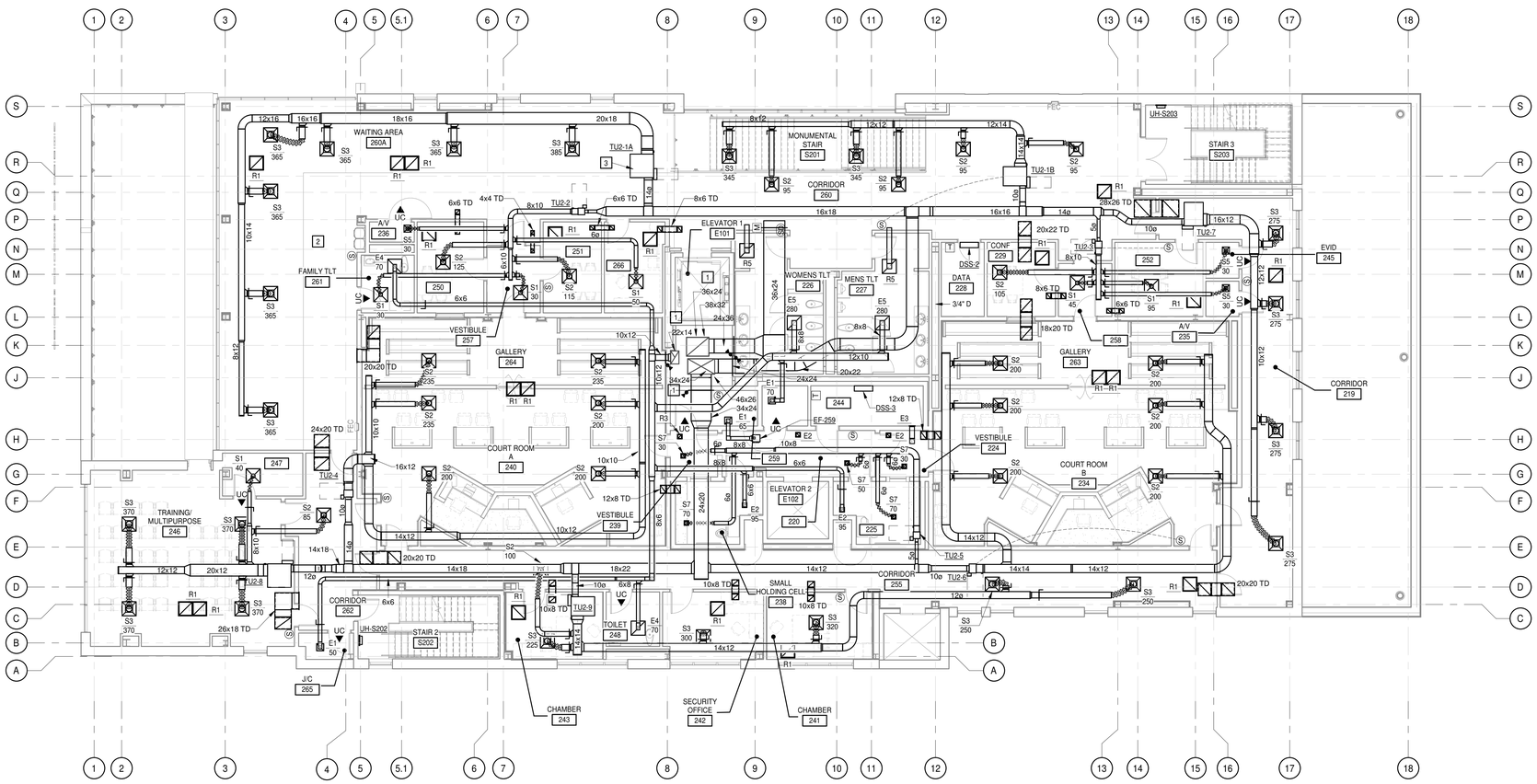
M2.1.2

5/22/2019 8:43:01 AM

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY n

1. SUPPLY, RETURN OR EXHAUST DUCT SIZE DOWN TO FLOOR BELOW.
2. APPROXIMATE LOCATION (IN PLENUM) OF BUILDING STATIC PRESSURE SENSOR FOR DAMPER AND RETURN FAN CONTROL.
3. SHUTOFF VAV TERMINAL BOX WHEN ANY RETURN AIR DUCT SMOKE DETECTOR HAS BEEN ACTIVATED.



N

SECOND FLOOR - DUCTWORK PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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5/22/19

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
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SECOND FLOOR
DUCTWORK PLAN

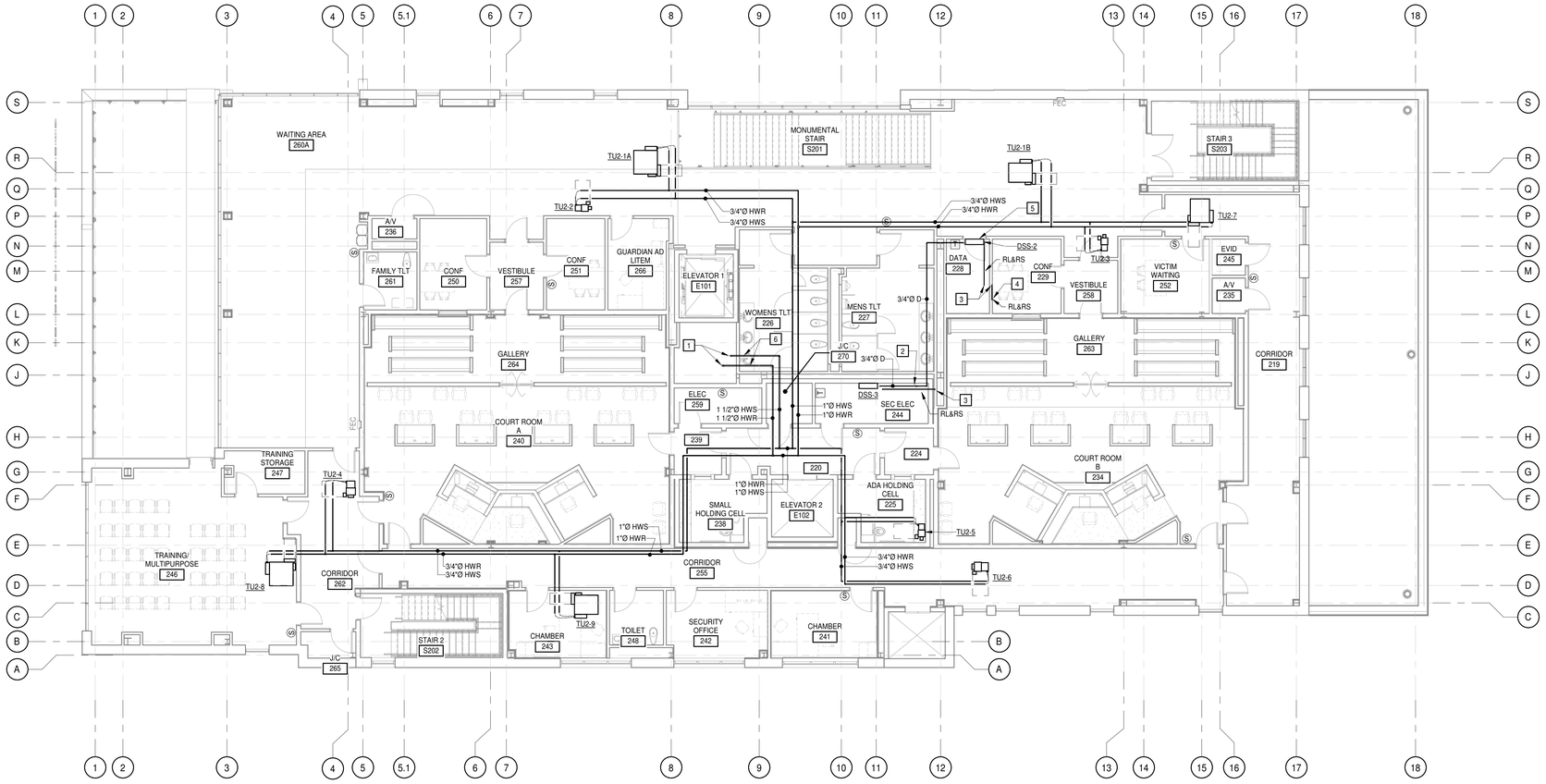
M2.2.1

5/22/2019 8:43:06 AM

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY n

1. 2" HWS AND HWR UP TO FLOOR ABOVE. 1-1/2" HWS & HWR DOWN TO FLOOR BELOW.
2. ROUTE CONDENSATE DRAIN DOWN TO FIRST FLOOR ABOVE CEILING.
3. REFRIGERANT PIPING FOR DUCTLESS SPLIT UNITS. ROUTE PIPING UP WITHIN WALL ON THIRD FLOOR TO ABOVE THIRD FLOOR CEILING. SINGLE PIPE SHOWN FOR CLARITY PURPOSES ONLY, REPRESENTS MULTIPLE RL AND RS LINESETS.
4. REFRIGERANT PIPING FOR DUCTLESS SPLIT UNITS ON FIRST FLOOR. ROUTE FROM ABOVE CEILING ON FIRST FLOOR TO ABOVE CEILING ON SECOND FLOOR WITHIN SECOND FLOOR WALL. SINGLE PIPE SHOWN FOR CLARITY PURPOSES ONLY, REPRESENTS MULTIPLE RL AND RS LINESETS.
5. INSTALL UNIT HIGH ENOUGH FOR SLOPED CONDENSATE DRAIN PIPING DIRECTED TO TERMINATION POINT.
6. PROVIDE ISOLATION SHUTOFF VALVE ON HWS AND HWR PIPING.



N

SECOND FLOOR - PIPING PLAN
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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5/22/19

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

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SECOND FLOOR PIPING PLAN

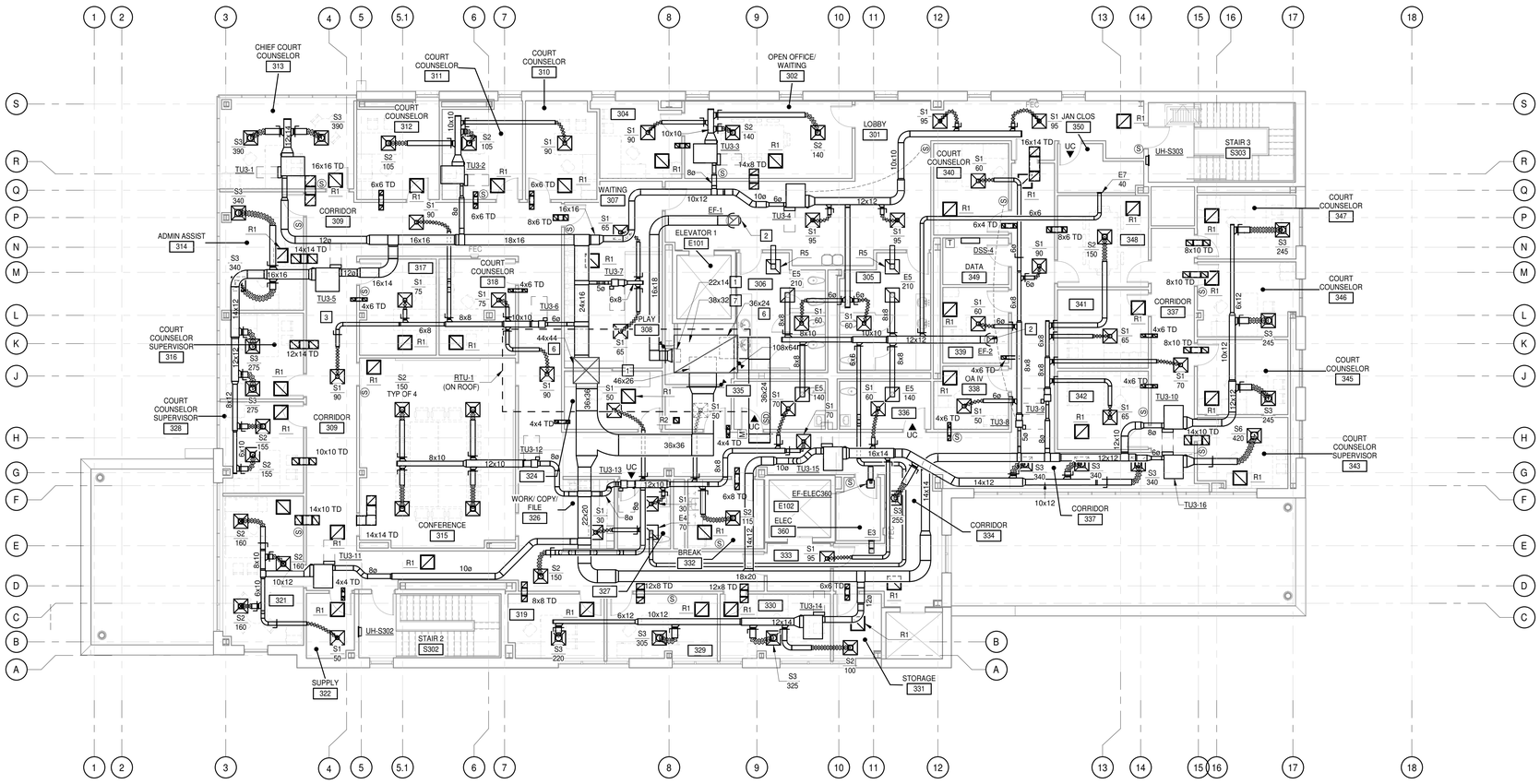
M2.2.2

5/22/2019 8:43:09 AM

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY n

1. SUPPLY OR EXHAUST DUCT SIZE DOWN TO FLOOR BELOW.
2. EXHAUST DUCT RISER UP TO EXHAUST FAN, PROVIDE TRANSITIONS.
3. APPROXIMATE LOCATION (IN PLENUM) OF BUILDING STATIC PRESSURE SENSOR FOR DAMPER AND RETURN FAN CONTROL.
4. 34X22 RETURN AIR TRANSFER SLEEVE ABOVE CEILING.
5. 22X34 RETURN AIR TRANSFER SLEEVE ABOVE CEILING.
6. SUPPLY OR RETURN DUCT UP TO UNIT ON ROOF.
7. RETURN DUCT SIZE FROM UNIT ON ROOF DOWN TO FLOOR BELOW.



N

THIRD FLOOR - DUCTWORK PLAN
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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THIRD FLOOR
DUCTWORK PLAN

M2.3.1

5/22/2019 8:43:13 AM

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY n

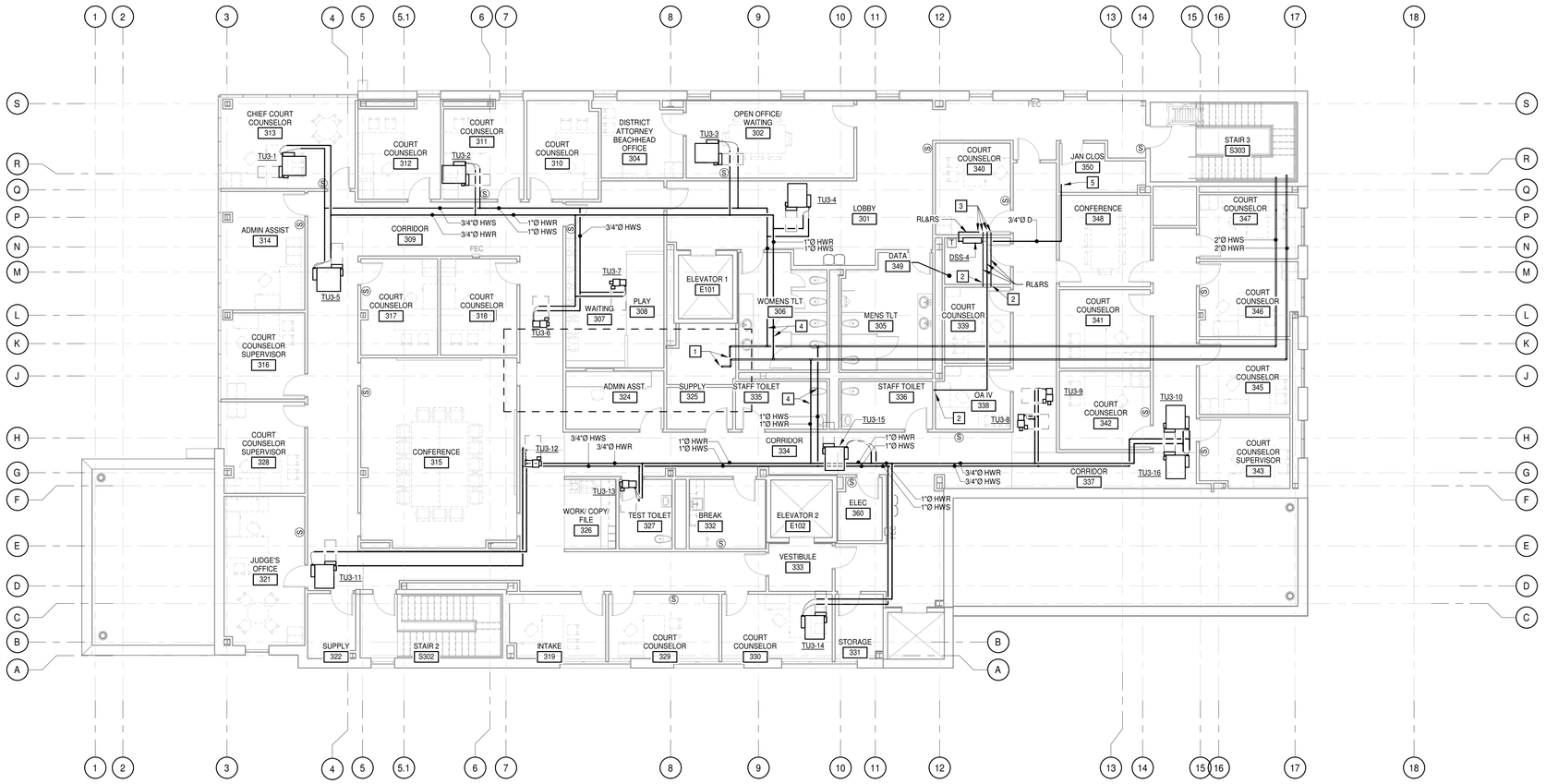
1. 2" HWS AND HWR DOWN TO FLOOR BELOW.

2. REFRIGERANT PIPING FOR DUCTLESS SPLIT SYSTEMS ROUTED UP WITHIN WALL FROM SECOND FLOOR. ROUTE ABOVE CEILING TO ROOF PIPE PORTAL. SINGLE PIPE SHOWN FOR CLARITY PURPOSES ONLY, REPRESENTS MULTIPLE REFRIGERANT LIQUID AND REFRIGERANT SUCTION LINESETS.

3. REFRIGERANT PIPING FOR DUCTLESS SPLIT SYSTEMS. ROUTE ABOVE CEILING TO ROOF PIPE PORTAL.

4. PROVIDE ISOLATION SHUTOFF VALVES FOR HWS AND HWR PIPING.

5. INSTALL DUCTLESS SPLIT UNIT HIGH ENOUGH ON WALL FOR ADEQUATE SLOPED CONDENSATE DRAIN PIPE. EXTEND TO MOP SINK IN JANITORS CLOSET, SECURE TO WALL WITH UNISTRUT.



N

THIRD FLOOR - PIPING PLAN
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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THIRD FLOOR
PIPING PLAN

M2.3.2

5/22/2019 8:43:15 AM

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY n

1. REFRIGERANT LIQUID AND SUCTION LINES DOWN TO FLOOR BELOW. PROVIDE PATE COMPANY PIPE HOOD ASSEMBLY PHA-2 (OR EQUIVALENT) FOR REFRIGERANT PIPING ROOF PENETRATION. FIELD INSULATE INTERIOR OF HOOD.

2. CONCRETE HOUSEKEEPING PAD. REFER TO STRUCTURAL DRAWING FOR DETAIL.

3. PROVIDE BOILER CIRCULATOR PUMP IN PIPING RISE/DROP TO WATER INLET.

4. SIDEWALL COMBUSTION AIR INTAKE AND VENT TERMINATION 10'-0" AFF IN ACCORDANCE WITH BOILER MANUFACTURER'S INSTRUCTIONS. BOILER MANUFACTURER TO PROVIDE SIDEWALL VENT TERMINATION KIT. VENT TERMINATIONS A MIN 3 FEET FROM DOOR AND MIN 12 INCHES APART FROM ADJACENT BOILER VENT TERMINATION.

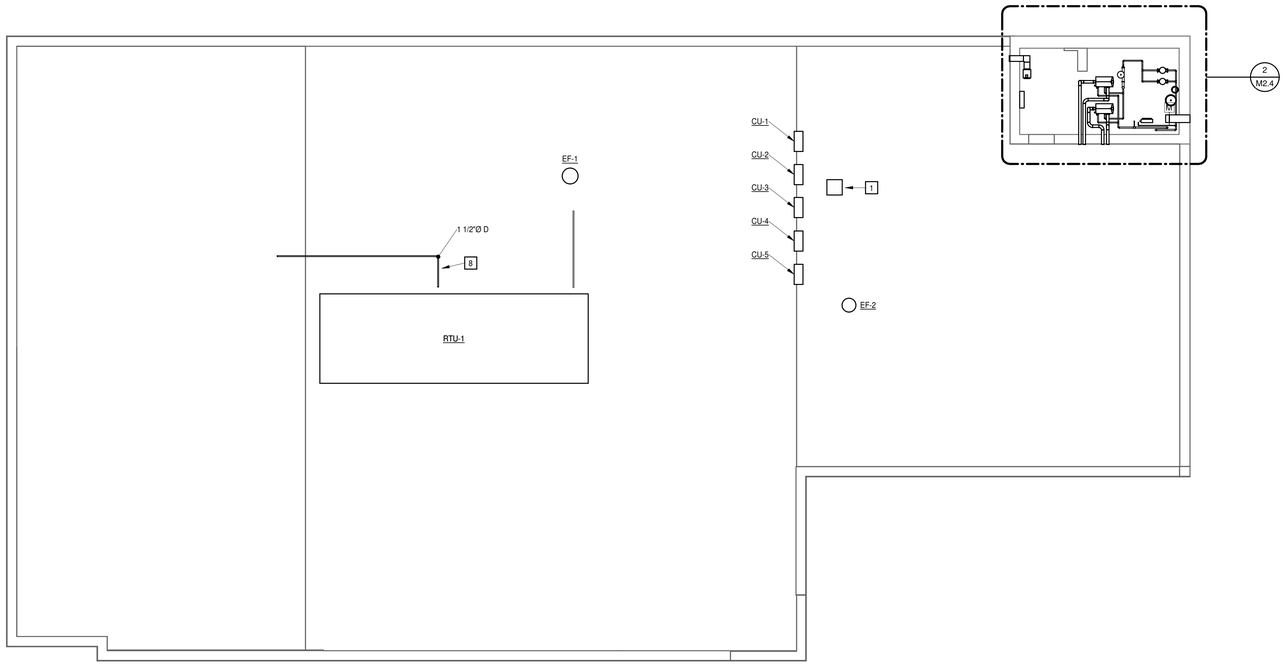
5. PROVIDE CHEMICAL SHOT FEEDER PER SPECIFICATION.

6. ALL HWS AND HWR PIPING IS 2" IN MECHANICAL ROOM.

7. LOUVER MIN 0.5 SF FREE AREA. COORDINATE ACTUAL SIZE WITH ARCHITECTURAL PLANS. INTERLOCK MOTORIZED DAMPER ASSOCIATED WITH AIR INTAKE LOUVER WITH ROOM EXHAUST FAN OPERATION.

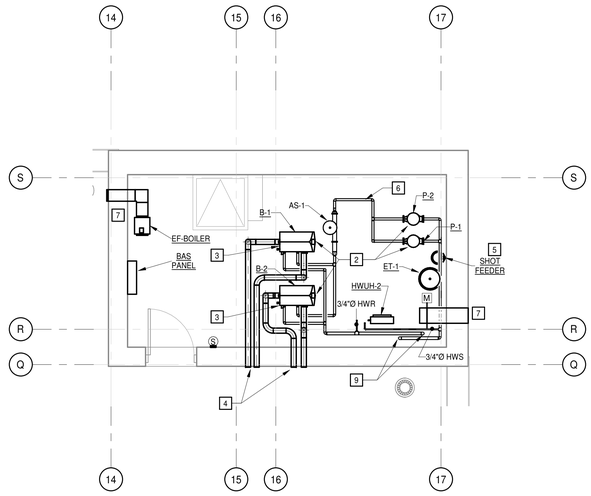
8. COMBINE CONDENSATE LINES AND RUN DRAIN AS INDICATED, ONLY ONE LINE INDICATED FOR CLARITY PURPOSES. COORDINATE EXACT NUMBER OF CONDENSATE DRAIN CONNECTIONS WITH EQUIPMENT MANUFACTURER.

9. 2" HWS AND HWR DOWN IN RATED CHASE TO THIRD FLOOR, PROVIDE ISOLATION VALVES.



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

0' 2' 4' 8' 16'
1/8" = 1'-0"



2 M2.4 M2.4 **BOILER ROOM ENLARGED PLAN**
1/4" = 1'-0"

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ROOF PLAN

M2.4

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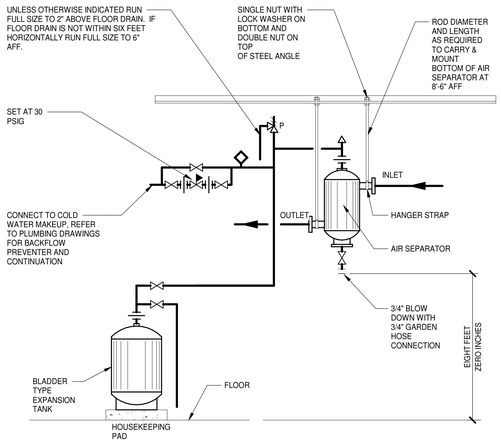
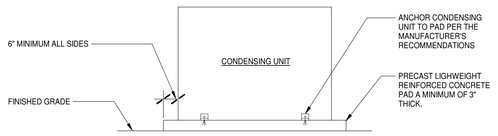


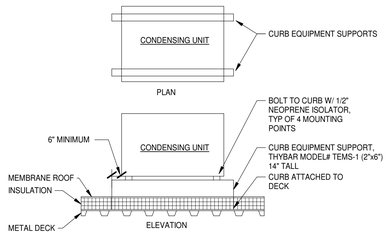
AIR SEPARATOR AND EXPANSION/COMPRESSION TANK DETAIL

NO SCALE



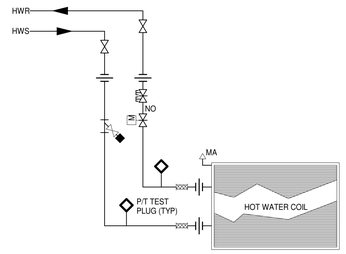
CONDENSING UNIT SUPPORT DETAIL

NO SCALE



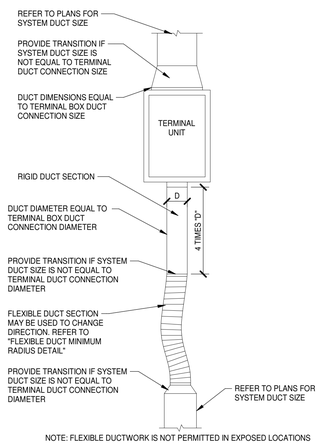
CONDENSING UNIT SUPPORT DETAIL

NO SCALE



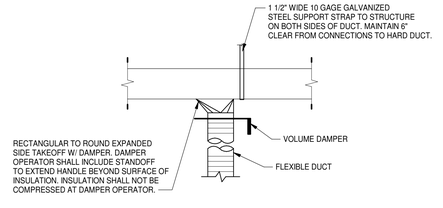
VAV HEATING COIL

NO SCALE



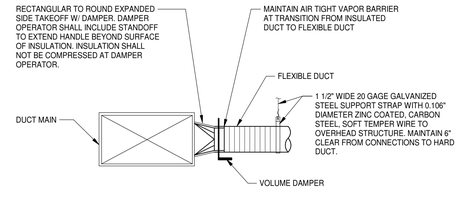
TERMINAL DUCT CONNECTION DETAIL

NO SCALE



NOTES:
- FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED W/ A SINGLE NYLON MECHANICAL BAND.
- IN EXPOSED AREAS PROVIDE RIGID GALVANIZED STEEL DUCTWORK IN LIEU OF FLEXIBLE DUCTWORK INDICATED. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR STEEL DUCTWORK.

BRANCH TAKEOFF TO DIFFUSER-BOTTOM

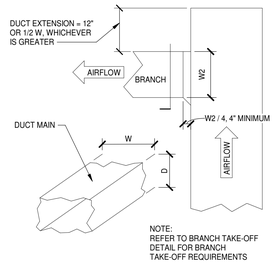


NOTES:
- FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED W/ A SINGLE NYLON MECHANICAL BAND.
- IN EXPOSED AREAS PROVIDE RIGID GALVANIZED STEEL DUCTWORK IN LIEU OF FLEXIBLE DUCTWORK INDICATED. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR STEEL DUCTWORK.

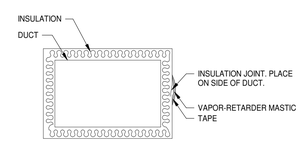
BRANCH TAKEOFF TO DIFFUSER-SIDE

PUMP DETAIL

NO SCALE

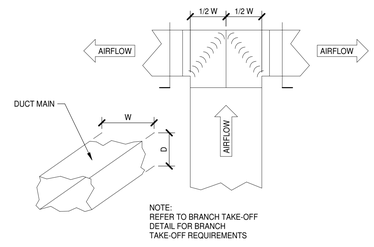


DUCT END OF MAIN DETAIL



REFER TO SPECIFICATION SECTION 230700 FOR ADDITIONAL INFORMATION.

DUCT INSULATION JOINT DETAIL

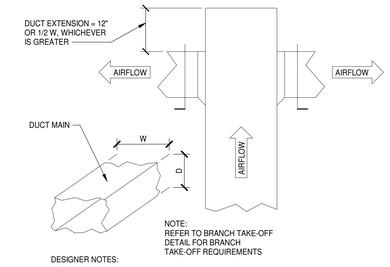


DESIGNER NOTES:

USE WHERE "W" EXCEEDS 24" OR WHEN AIR FLOW IS IN EXCESS OF 1500 CFM.

MAY BE PROPORTIONAL

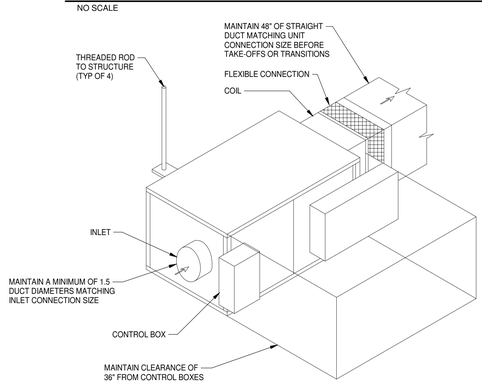
DUCT SPLIT WITH VANES DETAIL



DESIGNER NOTES:

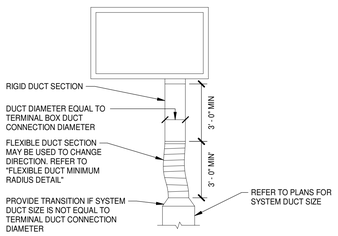
USE WHERE "W" IS LESS THAN 24", WHEN YOU HAVE ROUND DUCT BRANCHES TO DIFFUSERS, OR WHEN AIR FLOW IS EQUAL TO OR LESS THAN 1500 CFM.

DUCT SPLIT WITHOUT VANES DETAIL



VAV TERMINAL UNIT DETAIL

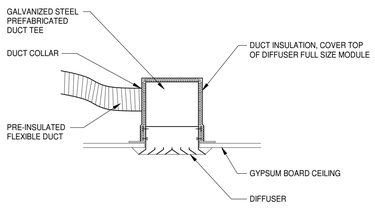
NO SCALE



NOTE: FLEXIBLE DUCTWORK IS NOT PERMITTED IN EXPOSED LOCATIONS

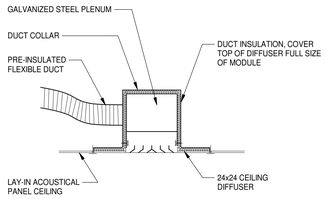
TERMINAL BOX CONNECTION DETAIL

NO SCALE

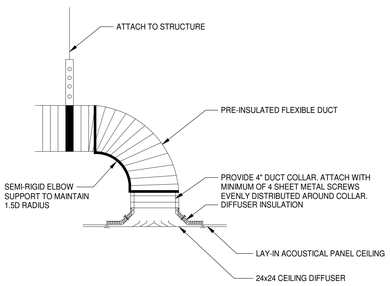


NOTE: THE DIFFUSER ASSEMBLY MAY BE SUPPORTED FROM THE CEILING FRAMING SYSTEM. THE DIFFUSER SHALL BE INSTALLED LEVEL AND TIGHT TO THE UNDERSIDE OF THE CEILING.

SUPPLY DIFFUSER CONNECTION GYP



SUPPLY DIFFUSER CONNECTION LAYIN



SUPPLY DIFFUSER CONNECTION LAYIN-COLLAR

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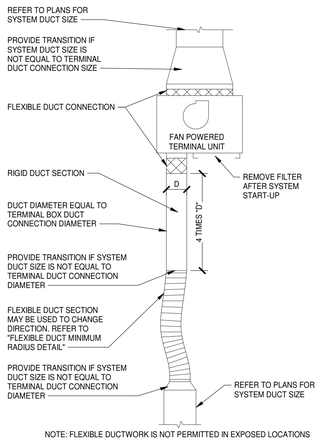
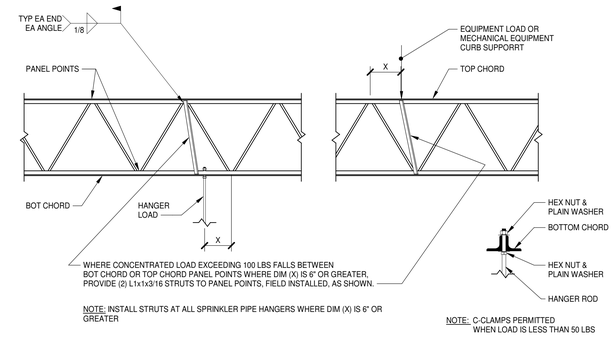
5/22/2019 8:43:18 AM



NOTE: FLEXIBLE DUCTWORK IS NOT PERMITTED IN EXPOSED LOCATIONS

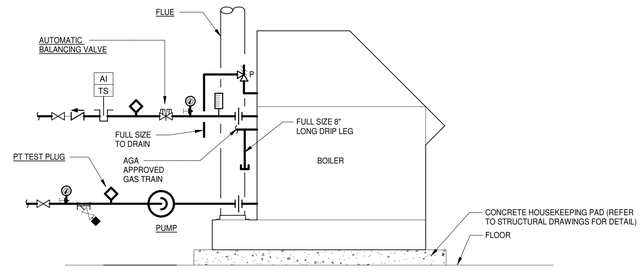
FAN POWERED TERMINAL DUCT CONNECTION DETAIL

NO SCALE



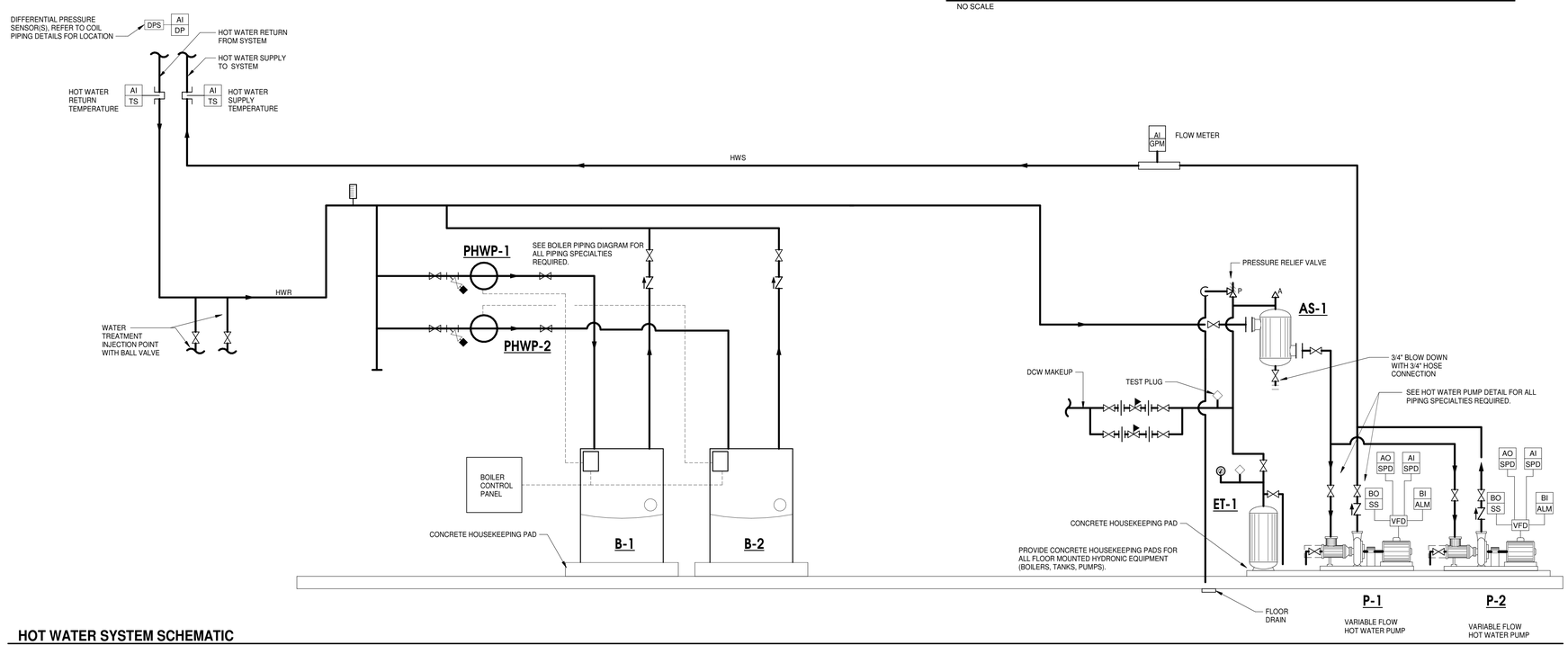
TYPICAL JOIST REINFORCING WHERE CONCENTRATED LOAD FALLS BETWEEN CHORD PANEL POINTS

NO SCALE



BOILER PIPING DIAGRAM

NO SCALE



HOT WATER SYSTEM SCHEMATIC

NO SCALE

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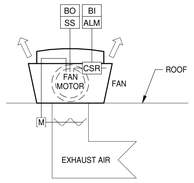
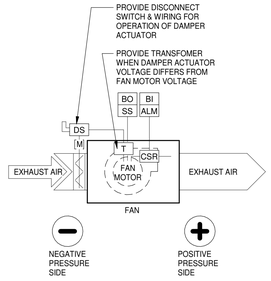
M5.2

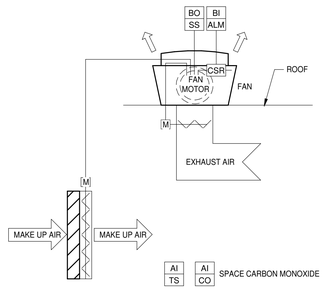
5/22/2019 8:43:19 AM



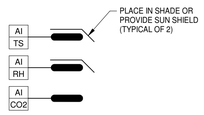
ROOF TOP EXHAUST FAN
NO SCALE



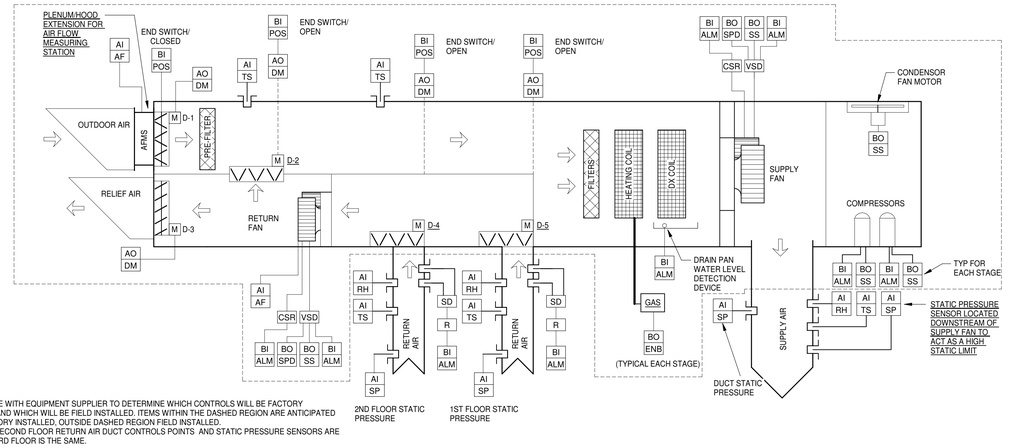
IN LINE EXHAUST FAN
NO SCALE



ROOF TOP EXHAUST FAN FOR VEHICLE SALLYPORT, PARKING GARAGE, AND SIMILAR OCCUPANCIES
NO SCALE

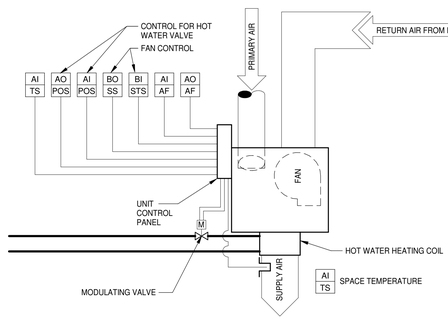


OUTDOOR AIR SENSORS
NO SCALE

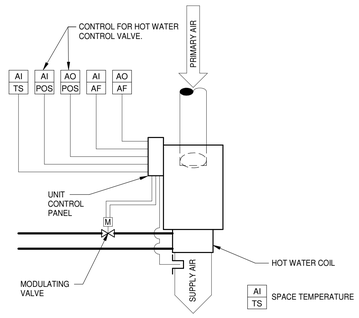


NOTES:
1. COORDINATE WITH EQUIPMENT SUPPLIER TO DETERMINE WHICH CONTROLS WILL BE FACTORY INSTALLED AND WHICH WILL BE FIELD INSTALLED. ITEMS WITHIN THE DASHED REGION ARE ANTICIPATED TO BE FACTORY INSTALLED, OUTSIDE DASHED REGION FIELD INSTALLED.
2. FIRST AND SECOND FLOOR RETURN AIR DUCT CONTROLS POINTS AND STATIC PRESSURE SENSORS ARE SHOWN, THIRD FLOOR IS THE SAME.

PACKAGED VAV ROOFTOP UNIT SERVING TERMINAL UNITS
NO SCALE



PARALLEL FAN POWERED TERMINAL UNIT WITH MODULATING HOT WATER HEATING COIL
NO SCALE



TERMINAL UNIT WITH MODULATING CONTROL OF HOT WATER HEAT
NO SCALE

MOSELEY ARCHITECTS
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NORTH CAROLINA PROFESSIONAL SEAL 033520 ENGINEER JUSTIN P. CARLSON
5/22/19

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

CONTROLS

M7.1

5/22/2019 8:43:20 AM

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
XX	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
XX	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
F	FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10"AFF.
FK	FIRE ALARM KEY OPERATED MANUAL PULL STATION, MOUNT AT +3'-10"AFF.
SD	FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR.
S	SMOKE DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
H	HEAT DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
TS	FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
FS	FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
PIV	POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
PS	FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
RI	FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
M	FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
C	FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
B	FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0"AFF.
M	FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT DEVICE AT 6" BELOW TOP OF DOOR. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE. COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 120-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
M	FIRE ALARM DOOR HOLDER/CLOSER HARDWARE UNDER DIVISION 08, MONITOR AND CONTROL INTERFACE WITH FIRE ALARM UNDER DIVISION 28.
	FIRE ALARM/POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.

GRAPHICS SYMBOLS LEGEND

A123 — **SPACE IDENTIFICATION TAG**
- SPACE NUMBER
- BUILDING AREA (WHEN USED)

SECTION WHERE CUT
- 1 / E4.1 — SECTION NUMBER / DRAWING WHERE SECTION IS INDICATED

ENLARGED PLAN WHERE CUT
- 1 / E3.1 — ENLARGED PLAN NUMBER / DRAWING WHERE ENLARGED PLAN IS INDICATED

DETAIL TAG
- 1 / E5.1 — DETAIL NUMBER / DRAWING WHERE DETAIL IS INDICATED

1 DETAIL TITLE — 1/4"=1'-0"
- E2.2 / E5.1 — DETAIL NUMBER / DRAWING WHERE DETAIL IS INDICATED
- E2.3 — DRAWING WHERE DETAIL IS CUT
- E2.4 — ADDITIONAL DRAWING REFERENCES

1 SECTION TITLE — 1/4"=1'-0"
- E2.2 / E4.1 — SECTION NUMBER / DRAWING WHERE SECTION IS INDICATED
- E2.3 — DRAWING WHERE SECTION IS CUT
- E2.4 — ADDITIONAL DRAWING REFERENCES

AVERAGE MAINTAINED ILLUMINATION LEVELS

TASK	FOOTCANDLES
CLASSROOMS	55
MEDIA CENTER	55
OFFICES	50
BUSINESS	55
STUDIO	60
SCIENCE LAB	70
ELECTRICAL ROOMS	30
MECHANICAL ROOMS	30
COMPUTER LABS	30
GYM	50
LOCKER ROOMS	20
LOBBIES/CORRIDORS	15
TOILETS	20
KITCHEN	70
DINING	40
AUDITORIUM	10-30
STOREROOMS	20
WHITEBOARDS	30

POWER LEGEND

SYMBOL	DESCRIPTION
	APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
	APPLIANCE RECEPTACLE, MOUNT AT +1'-6"AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6"AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	SPD DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
#	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
#	POWER/COMMUNICATIONS RECESSED FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
#	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
#	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
SF	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX. COORDINATE W/ SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
SF	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. COORDINATE W/FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	POWER/COMMUNICATIONS POWER POLE, FURNISHED WITH (NIC) SYSTEM FURNITURE. PROVIDE J-BOX MTD TO STRUCTURE ABOVE CLG, AND FLEXIBLE CONDUIT CONNECTION TO J-BOX MTD TO TOP OF POLE AND CONNECTED TO PIGTAIL(S) FURNISHED WITH POLE. POLE LOCATION IS APPROXIMATE, COORDINATE WITH SYSTEM FURNITURE PROVIDER.
T	LINE VOLTAGE THERMOSTAT. DIVISION 23 FURNISH, DIVISION 26 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
	PUSHBUTTON CONTROLLER.
	PUSHBUTTON.
	CORD REEL OUTLET, CEILING MOUNT.
	[NON-] METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNT AT +1'-6"AFF, UNO.
J	JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
UJ	JUNCTION BOX, UNDER FLOOR MOUNT.
CB	ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED.
	MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE. MOUNT W/HANDLE AT +3'-10" AFF, UNO.
	MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT W/HANDLE AT +3'-10"AFF, UNO.
	DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED. MOUNT W/HANDLE AT +4'-6"AFF, UNO.
	MAGNETIC MOTOR STARTER, WITH OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT +4'-6"AFF, UNO.
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH. WITH OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT + 4'-6"AFF, UNO.
E	EQUIPMENT POWER CONNECTION.
	MOTOR CONNECTION.
M	CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION.
EL	POWER FOR ELECTRIC DOOR LOCK CONNECTION.
ES	POWER FOR ELECTRIC DOOR STRIKE CONNECTION.
G	EMERGENCY GENERATOR.
	BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB.
	STRAIGHT LINEWORK FOR CIRCUITRY INDICATES ON EMERGENCY POWER CIRCUIT. INDICATED FOR CLARITY ONLY, ACTUAL HOMERUN DESIGNATION OVERRIDES THIS SYMBOLOGY.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.
	PANELBOARD.
T	TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE.
R	RELAY, N/O OR N/C AS INDICATED.
	RELAY, NORMALLY OPEN.
	RELAY, NORMALLY CLOSED.
XXX	FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.

COMMUNICATIONS LEGEND

NOTE: REFER TO 'TYPICAL COMMUNICATION OUTLET DETAIL' FOR BOX & CONDUIT REQUIREMENTS. REFER TO TELECOMMUNICATION DEVICE DETAILS FOR CABLING AND TERMINAL JACK REQUIREMENTS.

SYMBOL	DESCRIPTION
X	TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +3'-10"AFF.
X	TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +1'-6"AFF.
	[MISC COMMUNICATIONS OUTLET] , MOUNT AT +1'-6"AFF.
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING.
	INTERCOM STATION WITH PUSHBUTTON, MOUNT AT +4'-6"AFF.
	[MISC COMMUNICATIONS OUTLET] , MOUNT AT +4'-6"AFF.
E	PUSHBUTTON SWITCH, MOUNT AT +4'-6"AFF. SUBSCRIPT "E" INDICATES EMERGENCY FUNCTIONS.
	CATV OUTLET, MOUNT AT +[1'-6"] [7'-6"]AFF.
	WALL CLOCK, MOUNT AT +7'-6"AFF. SUBSCRIPT "D" INDICATES DOUBLE FACE CLOCK.
	WALL CLOCK, CEILING MOUNT. SUBSCRIPT "D" INDICATES DOUBLE FACE CLOCK. ARROWS INDICATE FACE DIRECTION.
W / M #	MICROPHONE OUTLET, WALL MOUNT AT +1'-6"AFF, FLUSH FLOOR MOUNT. SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET.
S	SOUND SYSTEM SPEAKER, RECESS WALL MOUNT AT +7'-6"AFF. 'WG' WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.
S	SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT. 'WG' WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.
#	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.
#	POWER/COMMUNICATIONS RECESSED FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.
#	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES. TO STUB-UP AT NEAREST COMMUNICATION CROSS-CONNECT, UNO. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL."
#	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION CROSS-CONNECT, UNO. REFER TO TYPICAL COMMUNICATION OUTLET DETAIL."
SF	SYSTEM FURNITURE COMMUNICATIONS CONNECTIONS VIA FLOOR BOX. PROVIDE 1.25" CONDUIT BELOW SLAB TO STUB-UP AT NEAREST COMMUNICATION BACK BOARD. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
SF	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA FLUSH WALL BOX MOUNTED +4"AFF. PROVIDE 1.25" CONDUIT WITH BUSHING FROM BOX TO ABOVE CEILING. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA POWER POLE FURNISHED WITH SYSTEM FURNITURE. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
WA	WIRELESS ACCESS POINT
	TELECOMMUNICATIONS EQUIPMENT RACK.
	2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
TG / B / TMGB	TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6"AFF.
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR, MOUNT AT +1'-6"AFF.
	CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
$	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10"AFF. SUBSCRIPT/SUPERSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS: 3 INDICATES 3-WAY LIGHT SWITCH 4 INDICATES 4-WAY LIGHT SWITCH D INDICATES DIMMER SWITCH P INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON K INDICATES KEY OPERATED LIGHT SWITCH OS INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR OD INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR OS 2 INDICATES DUAL RELAY INTEGRAL OCCUPANCY SENSOR, WIRED FOR MULTI-LEVEL SWITCHING LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION
	INDICATES SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING.
	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
	DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
PC	PHOTOELECTRIC CELL FOR LIGHTING CONTROL. WALL MOUNT AT +10-0"AFF. AIM NORTH.
	LIGHT FIXTURE, CEILING MOUNT.
	LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT.
	LIGHTING FIXTURE.
	LIGHTING FIXTURE ON EMERGENCY POWER.
	WALL WASHER LIGHTING FIXTURE.
	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
	EMERGENCY EGRESS LIGHTING FIXTURE, WITH BATTERY PACK, WALL MOUNT AT +8'-0"AFF.
	EXIT SIGN, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	EXIT SIGN, WALL MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	TRACK LIGHTS.
	LIGHT FIXTURE, POLE MOUNT.
	SPORTS LIGHTING POLE.

SECURITY LEGEND

SYMBOL	DESCRIPTION
	DIRECTIONAL SECURITY MOTION DETECTOR, WALL MOUNT 6" BFC.
	OMNI-DIRECTIONAL SECURITY MOTION DETECTOR.
	FUTURE CCTV MOUNTING LOCATION, CEILING MOUNT. PROVIDE 20' OF COAXIAL CABLE COILED ABOVE CEILING FOR FUTURE INSTALLATION OF SECURITY CAMERA. RUN CABLE TO ROOM XXXX AND COIL 20' OF CABLE INSIDE ROOM.
	FUTURE CCTV MOUNTING LOCATION, WALL MOUNT. PROVIDE 20' OF COAXIAL CABLE COILED ABOVE CEILING FOR FUTURE INSTALLATION OF SECURITY CAMERA. RUN CABLE TO ROOM XXXX AND COIL 20' OF CABLE INSIDE ROOM.
DPS	DOOR POSITION SWITCH.
C	STATUS CONTACT.
CR	CARD READER, MOUNT AT 3'-10" AFF.
CK	CARD READER WITH KEYPAD, MOUNT AT 3'-10" AFF.
K	REMOTE KEYPAD FOR SECURITY SYSTEM, MOUNT AT 3'-10" AFF.
DS	ELECTRIC DOOR STRIKE.
EL	ELECTRIC DOOR LOCK.
PL	PNEUMATIC DOOR LOCK.
	TALK THROUGH COMMUNICATOR.
	DURESS ALARM PUSHBUTTON, MOUNT IN CASEWORK AS INDICATED.

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.

C. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.

D. LOCATE ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.

E. PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE.

F. ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC, COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.

G. ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE, UNO. THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES.

H. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.

I. ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.

J. WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.

K. PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE" IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.

ABBREVIATIONS

1P	SINGLE PHASE
3P	THREE PHASE
3R	WEATHERPROOF (NEMA 3R)
A	AMPS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
CB	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CLR	CLEAR
CO.	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC PANEL
FAXP	FIRE ALARM EXTENDER PANEL
FFSCP	FIRE FIGHTER'S SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND	FUSE PER NAMEPLATE DATA
G	GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE ACCESSORY FOR INDICATED BREAKER)
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFP	GROUND FAULT PROTECTION FOR PERSONNEL, 4-6mA (PROVIDE ACCESSORY FOR INDICATED BREAKER)
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
Hz	HERTZ
IAW	IN ACCORDANCE WITH
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KHFSS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHz	KILOHERTZ
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
L	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER)
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR, REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	METAL HALIDE
MHz	MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MAXIMUM OVER CURRENT PROTECTION.
MTD	MOUNTED
N	NEUTRAL
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NO.	NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	PANELBOARD
PD	PROTECTIVE DEVICE
RCPT	RECEPTACLE
REC	RECEPTACLE
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SPEC.	SPECIFICATION(S)
ST	SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/	WITH
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040202 5/22/2019 REGISTERED PROFESSIONAL ENGINEERS

DIVISION OF JUVENILE JUSTICE

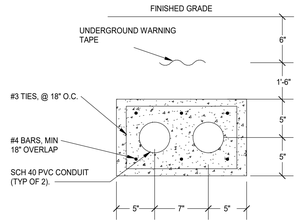
NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

E0.1

5/22/2019 9:41:43 AM



2 DUCTBANK DETAIL 1
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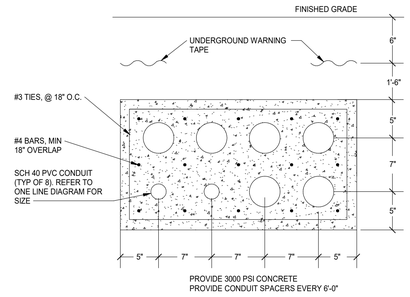

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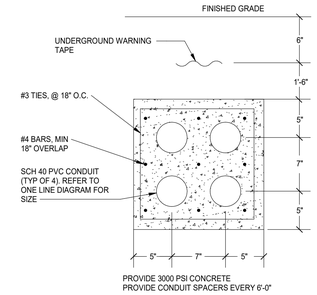

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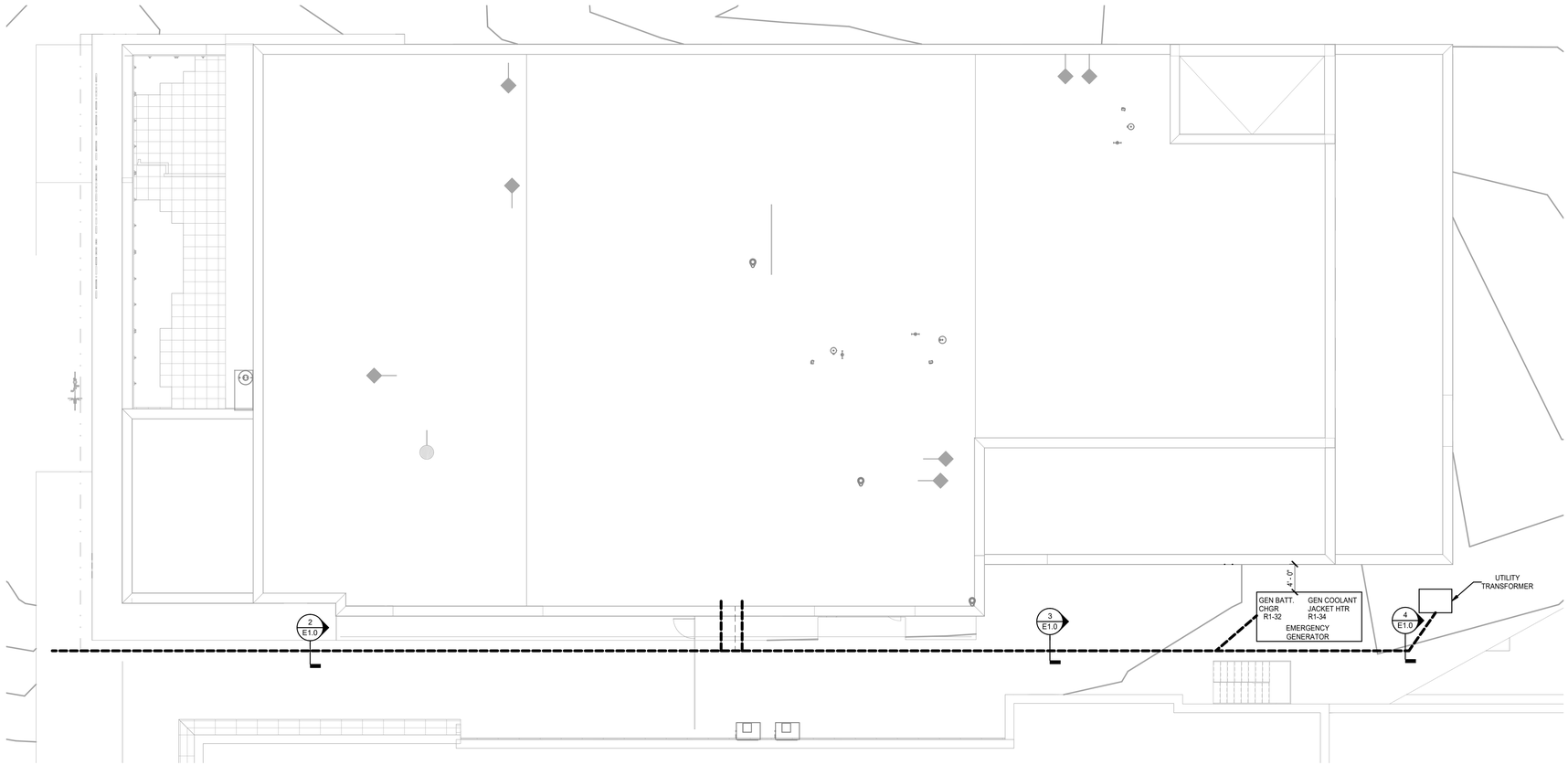

N

ELECTRICAL SITE PLAN
1/8" = 1'-0"

5/22/2019 9:41:45 AM

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NORTH CAROLINA PROFESSIONAL SEAL 040202 5/22/2019 ENGINEER BRIAN C. WELLS

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

ELECTRICAL SITE PLAN

E1.0

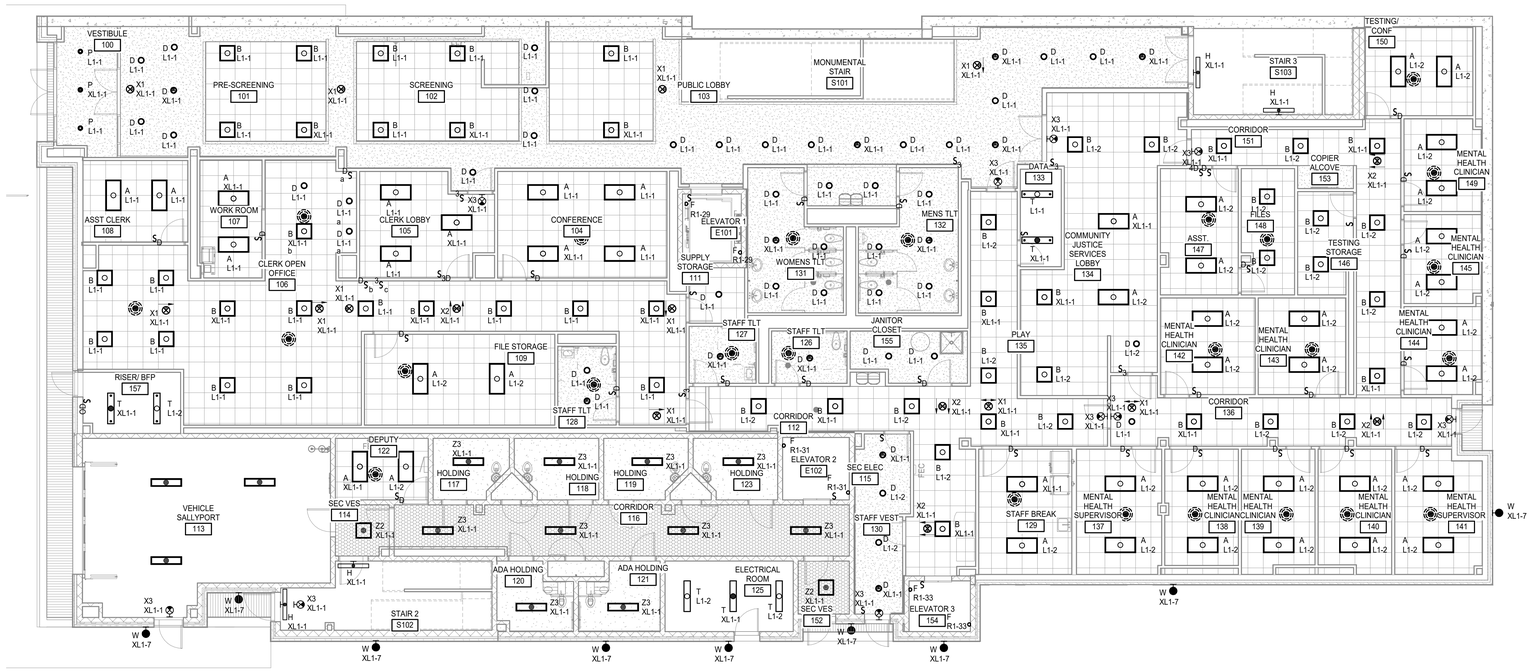
INTERIOR LIGHT FIXTURE SCHEDULE

FIXTURE					LAMP		MOUNTING	OPTIONS			COMMENTS
TYPE	MANUFACTURER	SERIES NO.	WATTAGE	LUMENS	TYPE	COLOR TEMP.		BI-LEVEL	DIMMING	INTEGRAL OCC./VAC. SENSOR*	
A	LITHONIA LIGHTING	2ALL4-30L-EZ1-LP840	25	3096 lm	LED	4000 K	RECESSED		X		
B	LITHONIA LIGHTING	2ALL2-20L-EZ1-LP840	18	2065 lm	LED	4000 K	RECESSED		X		
D	LITHONIA LIGHTING	LDN6-40/05-L06-WR-LS-MVOLT-GZ1-SF	8	662 lm	LED	4000 K	RECESSED		X		
F	PHILIPS	LPL-S-4LS3	32	1800 lm	LED	4000 K	SURFACE - ELEVATOR SHAFT / PIT				
H	LITHONIA LIGHTING	WL4-30L-LP840-MSD7	28	3251 lm	LED	4000 K	SURFACE - WALL			X	
P	V2 LIGHTING	C2LP-RV-208340-WH-WH	20	2000 lm	LED	4000 K	PENDENT - 10' ABOVE STAIRS				FIXTURE MOUNTING HEIGHTS FOLLOW SLOPE OF THE STAIRS DOWN FROM UPPER FLOOR
T	LITHONIA LIGHTING	ZL1N-L48-SMR-3000LM-FST-MVOLT-40K-80CRI-WH-ZACVH	25	3172 lm	LED	4000 K	PENDENT - 9' A.F.F.				
W	MCGRAW EDISON	ISW-B01-LED-E1-BL3-BK-P-CWB-120V	27	1380 lm	LEDS	4000 K	SURFACE - WALL 12' ABOVE GRADE				
X1	LITHONIA LIGHTING	LRP-1-RW-(LA/RA/LRA)*-277	5		LED		SURFACE - CEILING				EXIT - CEILING - SURFACE - SINGLE FACE
X2	LITHONIA LIGHTING	LRP -2-RW-(LA/RA/LRA)*-277	5		LED		SURFACE - CEILING				EXIT - CEILING - SURFACE - DOUBLE FACE
X3	LITHONIA LIGHTING	LRP-1-RW-(LA/RA/LRA)*-277	5		LED		SURFACE - WALL				EXIT - WALL
Z2	KENALL LIGHTING	SCD-2-1-25L40K-DCC-277-B/J-1-FS	25	3079 lm	LED	4000 K	SURFACE - CEILING				SECURITY FIXTURE
Z3	KENALL LIGHTING	SCA-4-1-45L40K-DCC-277-B/J-1-DLN-FS	45	4099 lm	LED	4000 K	SURFACE - CEILING	X			SECURITY FIXTURE

GENERAL LIGHTING NOTES

A. OCCUPANCY SENSORS IN ALL OFFICES WILL BE PROGRAMMED TO FUNCTION AS VACANCY SENSORS.

KEYNOTES



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FIRST FLOOR - LIGHTING PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 040202 5/22/2019 ENGINEER BRIAN P. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

FIRST FLOOR - LIGHTING PLAN

E2.1.1

5/22/2019 9:41:50 AM

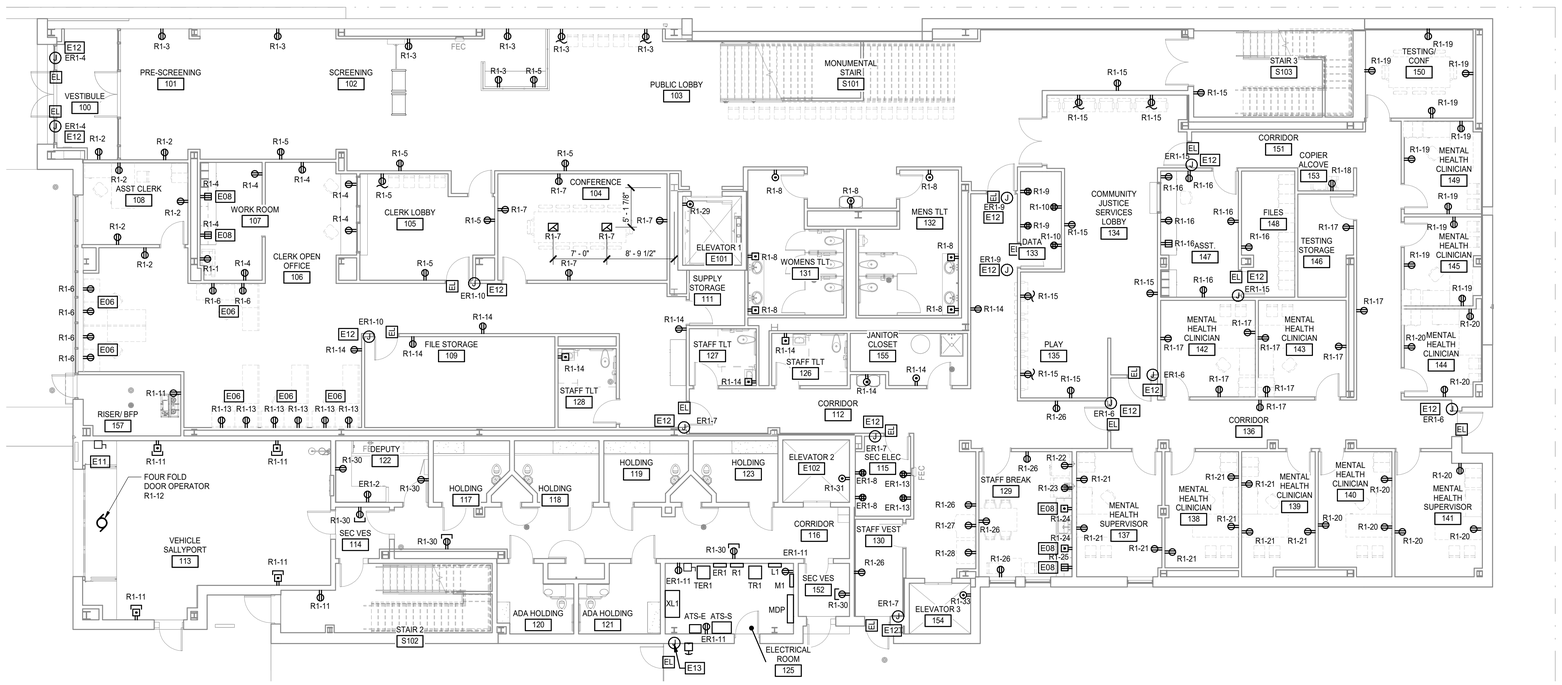
GENERAL POWER NOTES

A. FOR DEVICES AND EQUIPMENT BEING PROVIDED BY OTHERS, COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

B. ALL DEVICES SHOWN ARE DIAGRAMMATIC EXCEPT WHERE DIMENSIONS ARE CALLED OUT. COORDINATE INSTALLATION WITH OTHER TRADES.

KEYNOTES

E06	COORDINATE DEVICE LOCATION AND INSTALLATION REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO ROUGH-IN.
E08	ABOVE COUNTER RECEPTACLE. COORDINATE MOUNTING HEIGHT TO PLACE DEVICE ABOVE COUNTER BACKSPLASH.
E11	PROVIDE NONFUSED DISCONNECT FOR FOUR FOLD DOOR OPERATOR. ROUTE 2-#12 AND 1-#12 GROUND TO FOUR FOLD DOOR OPERATOR THROUGH DISCONNECT SWITCH AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
E12	PROVIDE POWER FOR DOOR ACCESS CONTROL. REFER TO DETAIL 4 ON DRAWING SHEET E4.2. PROVIDE 2-#12 AWG AND 1-#12 AWG GROUND IN 3/4" CONDUIT AND TEMRINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATIONS AND ROUTING WITH DOOR HARDWARE PRIOR TO ROUGH-IN.
E13	PROVIDE POWER FOR GATE ACCESS CONTROL. PROVIDE 2-#12 AWG AND 1-#12 AWG GROUND IN 3/4" CONDUIT AND TEMRINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATIONS AND ROUTING WITH GATE HARDWARE PRIOR TO ROUGH-IN. PROVIDE EXTERIOR WALL MOUNTED PUSH BUTTON FOR ELECTRIC LOCK OVERRIDE. COORDINATE LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.



N

FIRST FLOOR - ELECTRICAL POWER PLAN
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

FIRST FLOOR - ELECTRICAL POWER PLAN

E2.1.2

5/22/2019 9:41:54 AM

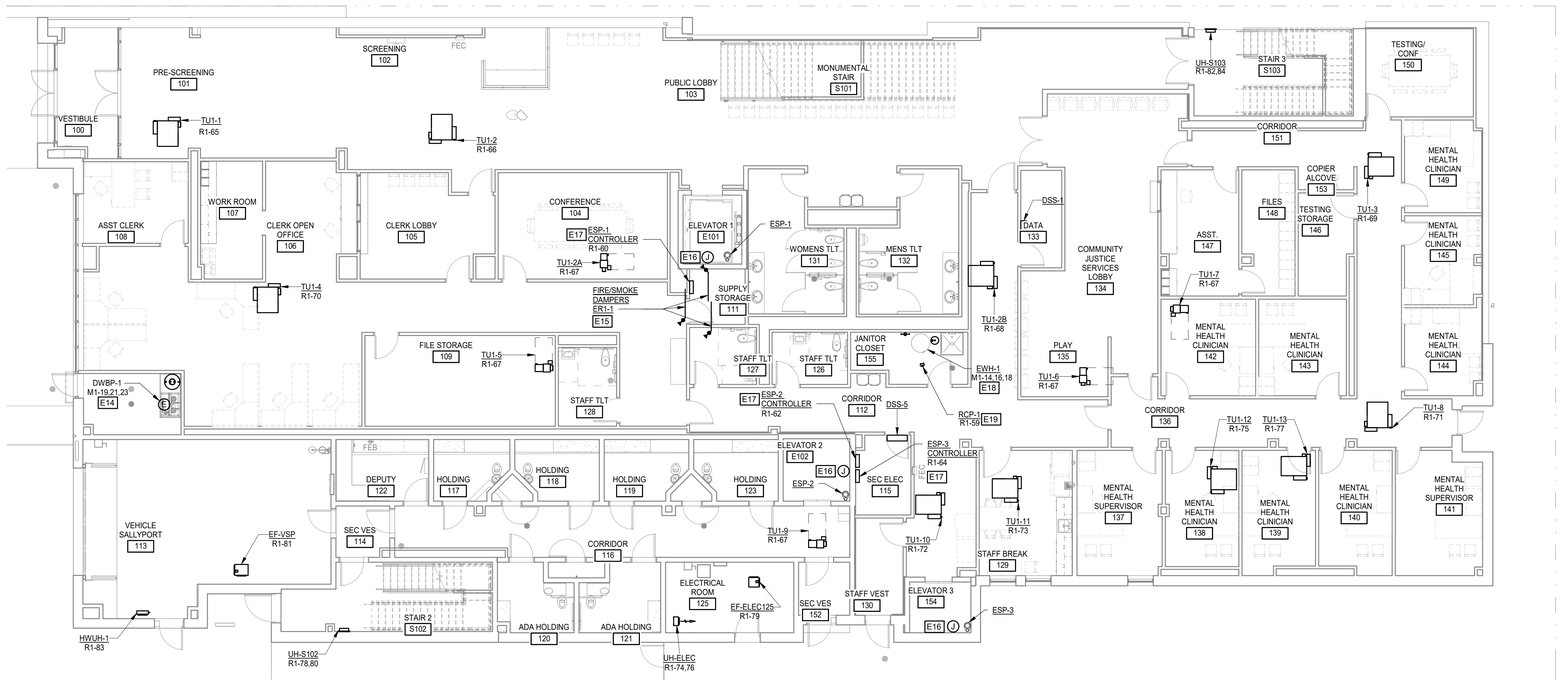
GENERAL MECHANICAL POWER NOTES

A. MECHANICAL EQUIPMENT SHOWN IS BASED UPON A "BASIS OF DESIGN" MODEL AND IS NOT GUARANTEED TO BE WHAT IS INSTALLED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH VENDOR SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN.

B. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND BASED UPON THE TYPE AND SIZE OF THE "BASIS OF DESIGN" MODEL. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH MECHANICAL CONTRACTOR TO AVOID CONFLICTS AT INSTALLATION.

KEYNOTES

E14	DOMESTIC WATER BOOSTER PUMP SYSTEM CONNECTION. ROUTE FOUR #12 AWG CONDUCTORS AND ONE #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO SYSTEM MOUNTED CONTROL PANEL AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E15	FIRE/SMOKE DAMPER CONNECTION. ROUTE TWO #12 AWG CONDUCTORS AND ONE #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO SMOKE DAMPERS AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E16	WATER TIGHT JUNCTION BOX FOR ELEVATOR PIT SUMP PUMP CONNECTION. REFER TO ELEVATOR SUMP PUMP DETAIL ON DRAWING SHEET P5.1 FOR PUMP CONNECTION REQUIREMENTS.
E17	ELEVATOR PIT SUMP PUMP CONTROLLER. ROUTE TWO #12 AWG AND ONE #12 GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO CONTROLLER AND TERMINATE PER MANUFACTURER'S INSTRUCTION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E18	ELECTRIC WATER HEATER. ROUTE FOUR #12 AWG CONDUCTORS AND ONE #12 GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO WATE HEATER AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E19	RECIRCULATION PUMP CONNECTION. ROUTE TWO #12 AWG AND ONE #12 AWG IN 3/4" CONDUIT FROM PANEL SHOWN TO PUMP AND TERMINATE PER MANUFACTURER'S INSTRUCTION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.



N

FIRST FLOOR - MECHANICAL POWER PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

MOSELEY ARCHITECTS

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NORTH CAROLINA PROFESSIONAL SEAL 040202 5/22/2019 REGISTERED BRYAN C. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR - MECHANICAL POWER PLAN

E2.1.3

5/22/2019 9:41:57 AM

GENERAL COMMUNICATIONS NOTES

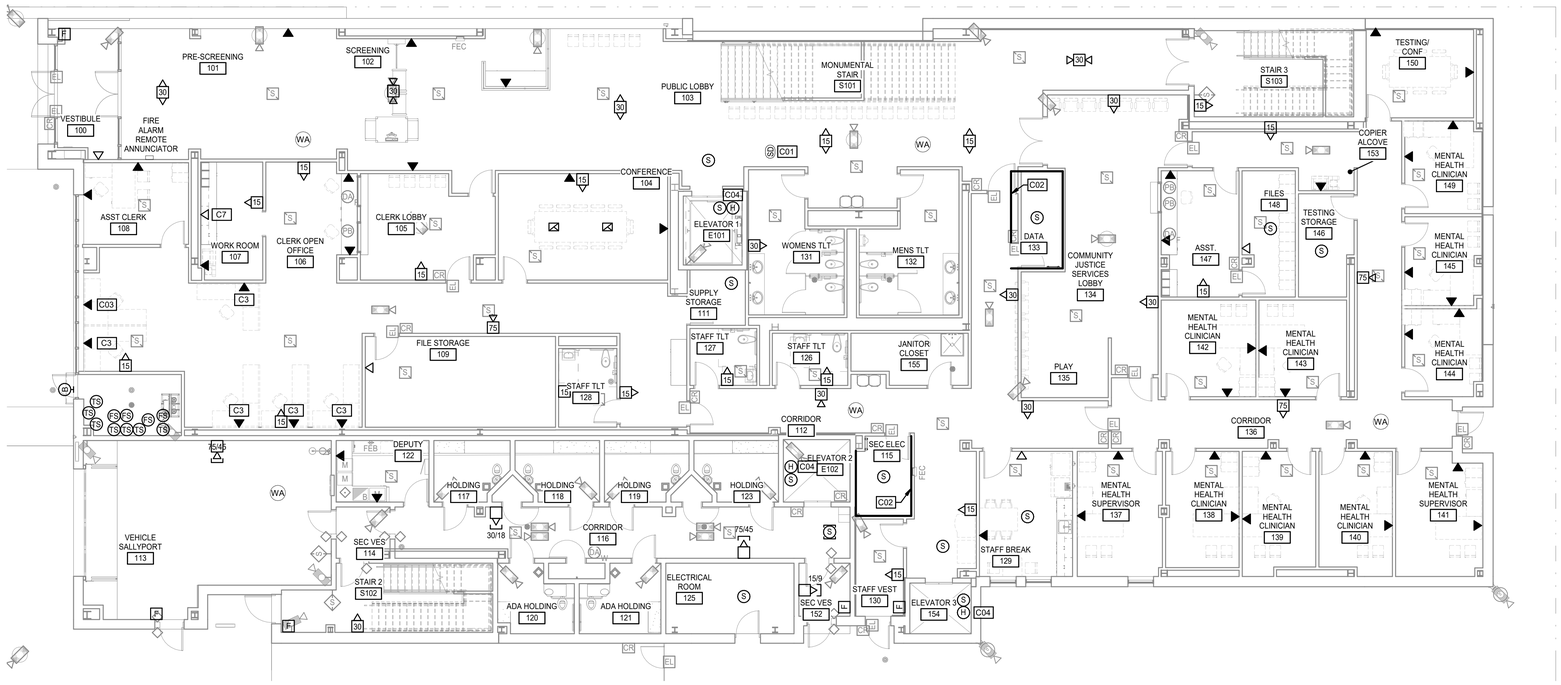
A. ALL DATA / TELEPHONE AND COMMUNICATIONS EQUIPMENT AND INFRASTRUCTURE SHALL COMPLY WITH CURRENT NEW HANOVER COUNTY ADMINISTRATIVE POLICIES AND REQUIREMENTS.

B. COORDINATE THE MOUNTING HEIGHTS FOR ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES WITH ARCHITECTURAL WALL ELEMENTS AND FEATURES. PLACE DEVICES SO THAT THEY ARE NOT PARTLY IN MORE THAN ONE SURFACE TREATMENTS, WALL MATERIALS OR TILE.

C. MICROPHONE LOCATIONS SHOWN ARE PRELIMINARY. INSTALL CONDUIT, WITH PULL CORD, FROM FURNITURE LOCATION TO NEAREST WALL, UNDERSLAB, AND EXTEND UP TO ACCESSIBLE CEILING SPACE. WHERE HARD CEILING EXISTS AT TOP OF WALL, COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE MINIMUM 8" X 8" ACCESS DOOR FOR ACCESS TO TOP OF CONDUIT. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

KEYNOTES

C01	DUCT SMOKE DETECTOR. PROVIDE DEVICE TO MECHANICAL CONTRACTOR FOR INSTALLATION.
C02	PROVIDE 3/4" FIRE RESISTANT PLYWOOD BACKBOARD, PAINTED WHITE. PLYWOOD SHALL EXTEND FROM 2' A.F.F. TO 10' A.F.F.
C3	
C03	COORDINATE DEVICE LOCATION AND INSTALLATION REQUIREMENTS WITH WITH FURNITURE VENDOR PRIOR TO ROUGH-IN.
C04	ELEVATOR HOISTWAY HEAT DETECTOR. COORDINATE TO LOCATE DEVICE WITHIN 2' OF SPRINKLER HEAD.
C7	



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FIRST FLOOR - COMMUNICATIONS PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

MOSELEY ARCHITECTS

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DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR - COMMUNICATIONS PLAN

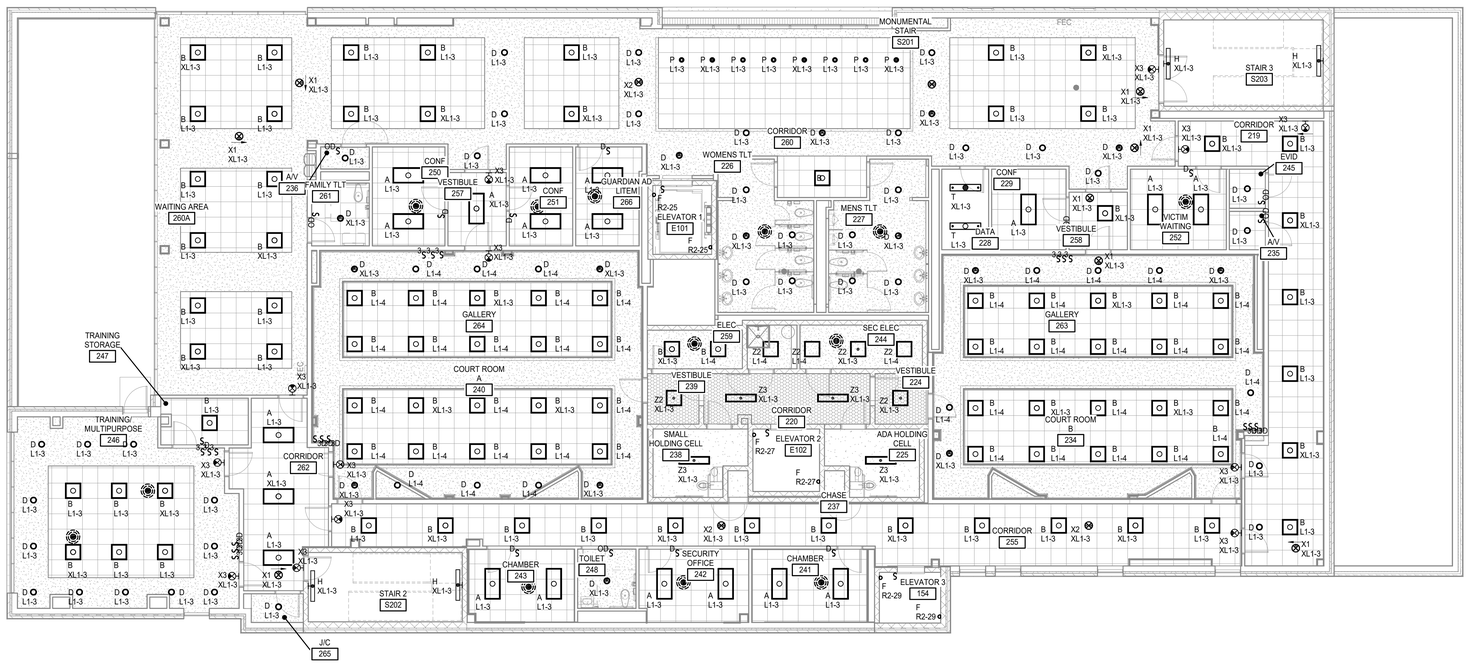
E2.1.4

5/22/2019 9:42:00 AM

GENERAL LIGHTING NOTES

A. OCCUPANCY SENSORS IN ALL OFFICES WILL BE PROGRAMMED TO FUNCTION AS VACANCY SENSORS.

KEYNOTES



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SECOND FLOOR - LIGHTING PLAN
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

MOSELEY ARCHITECTS
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NORTH CAROLINA PROFESSIONAL SEAL 040202 5/22/2019 REGISTERED ARCHITECTS

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE:
571990	MAY 22, 2019

REVISIONS

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SECOND FLOOR - LIGHTING PLAN

E2.2.1

5/22/2019 9:42:05 AM

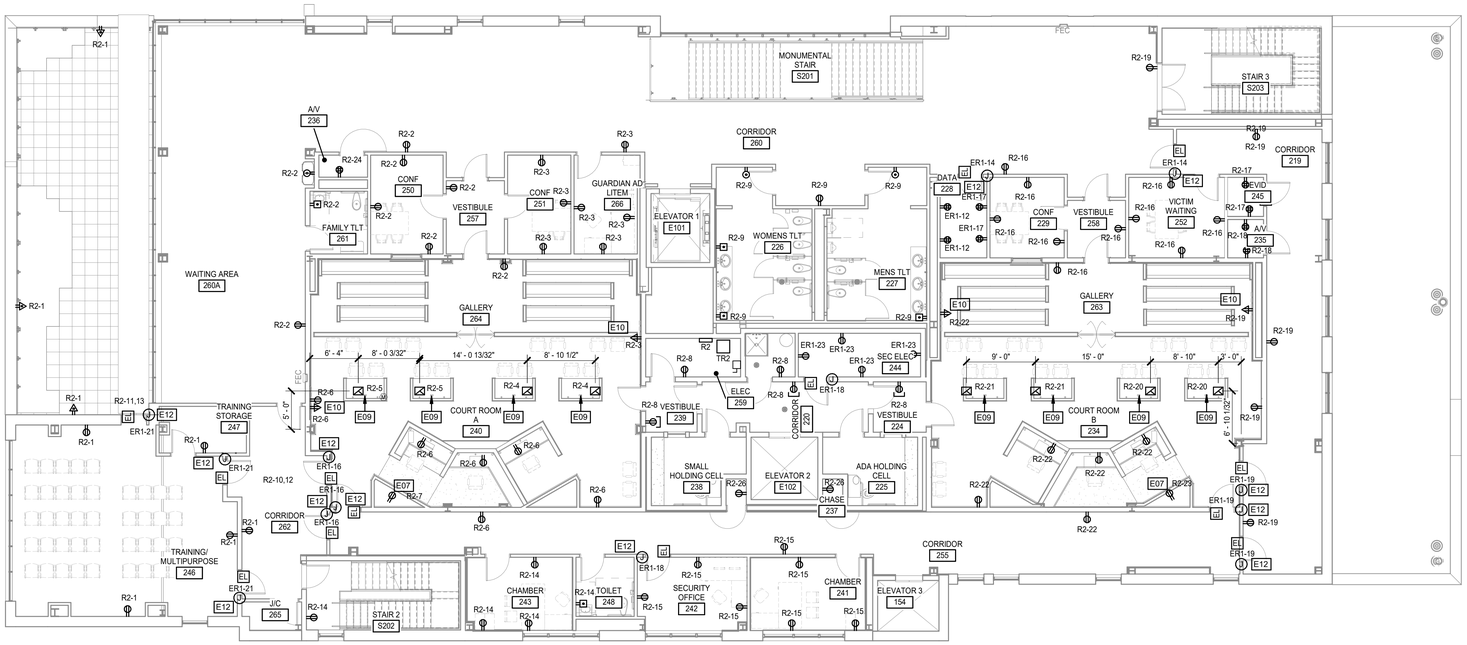
GENERAL POWER NOTES

A. FOR DEVICES AND EQUIPMENT BEING PROVIDED BY OTHERS, COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

B. ALL DEVICES SHOWN ARE DIAGRAMMATIC EXCEPT WHERE DIMENSIONS ARE CALLED OUT. COORDINATE INSTALLATION WITH OTHER TRADES.

KEYNOTES

E07	COORDINATE DEVICE MOUNTING HEIGHT WITH RAISED FLOORING.
E09	TABLETOP POP UP COMBINATION POWER AND DATA OUTLET. ALTINEX OR OTHER MANUFACTURER'S APPROVED EQUIVALENT. PROVIDE TWO NEMA 5-15R POWER OUTLETS AND TWO RJ45 JACKS.
E10	WALL MOUNTED TELEVISION LOCATION. PROVIDE RECESSED WALL BOX FOR POWER AND A/V CONNECTION TO TELEVISION. MOUNT AT 70" A.F.F. TO CENTER OF DEVICE BOX. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
E12	PROVIDE POWER FOR DOOR ACCESS CONTROL. REFER TO DETAIL 4 ON DRAWING SHEET E4.2. PROVIDE 2-#12 AWG AND 1-#12 AWG GROUND IN 3/4" CONDUIT AND TEMRINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATIONS AND ROUTING WITH DOOR HARDWARE PRIOR TO ROUGH-IN.



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SECOND FLOOR - ELECTRICAL POWER PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

MOSELEYARCHITECTS

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NORTH CAROLINA PROFESSIONAL SEAL 040202 5/22/2019 REGISTERED BRYAN E. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE:
571990	MAY 22, 2019

REVISIONS

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SECOND FLOOR - ELECTRICAL POWER PLAN

E2.2.2

5/22/2019 9:42:08 AM

GENERAL MECHANICAL POWER NOTES

A. MECHANICAL EQUIPMENT SHOWN IS BASED UPON A "BASIS OF DESIGN" MODEL AND IS NOT GUARANTEED TO BE WHAT IS INSTALLED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH VENDOR SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN.

B. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND BASED UPON THE TYPE AND SIZE OF THE "BASIS OF DESIGN" MODEL. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH MECHANICAL CONTRACTOR TO AVOID CONFLICTS AT INSTALLATION.

KEYNOTES

E15	FIRE/SMOKE DAMPER CONNECTION. ROUTE TWO #12 AWG CONDUCTORS AND ONE #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO SMOKE DAMPERS AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E18	ELECTRIC WATER HEATER. ROUTE FOUR #12 AWG CONDUCTORS AND ONE #12 GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO WATE HEATER AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E19	RECIRCULATION PUMP CONNECTION. ROUTE TWO #12 AWG AND ONE #12 AWG IN 3/4" CONDUIT FROM PANEL SHOWN TO PUMP AND TERMINATE PER MANUFACTURER'S INSTRUCTION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

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SECOND FLOOR - MECHANICAL POWER PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

MOSELEY ARCHITECTS

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NORTH CAROLINA PROFESSIONAL SEAL 040202 5/22/2019 REGISTERED BRIAN C. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

SECOND FLOOR - MECHANICAL POWER PLAN

E2.2.3

5/22/2019 9:42:12 AM

GENERAL COMMUNICATIONS NOTES

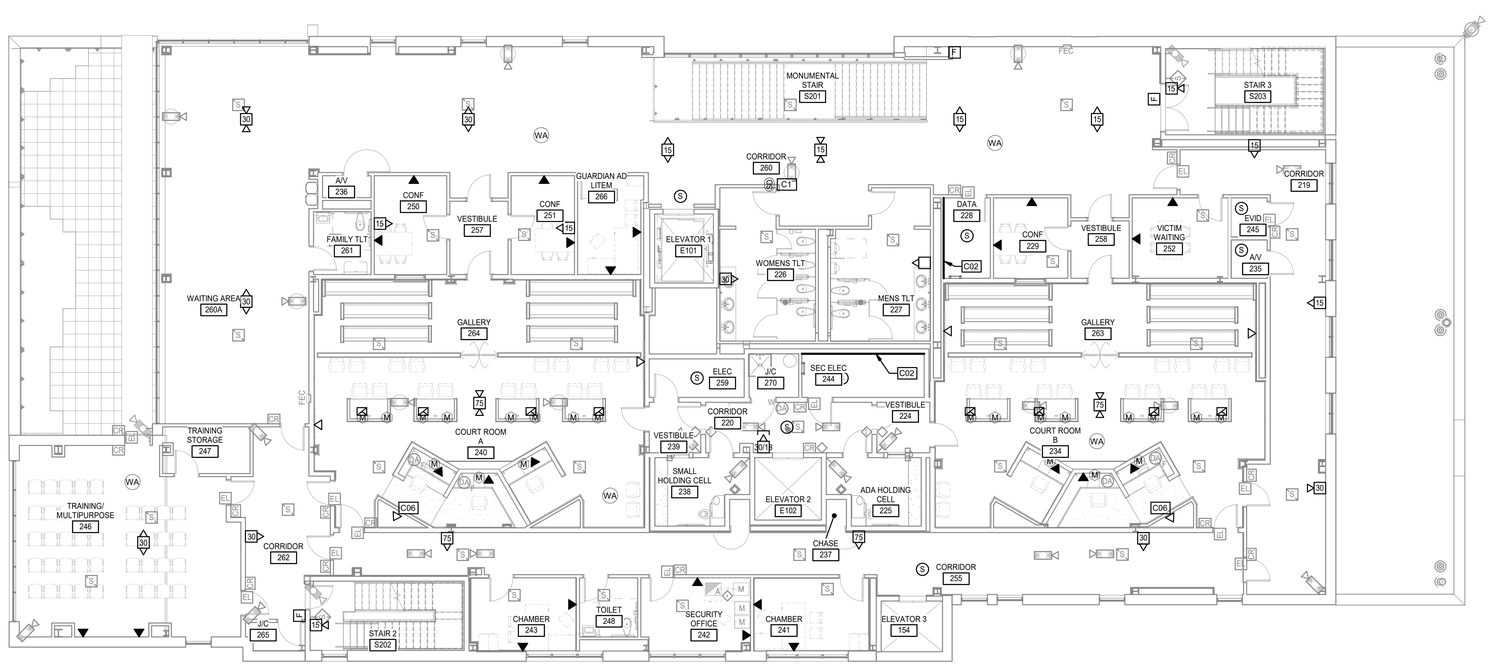
A. ALL DATA / TELEPHONE AND COMMUNICATIONS EQUIPMENT AND INFRASTRUCTURE SHALL COMPLY WITH CURRENT NEW HANOVER COUNTY ADMINISTRATIVE POLICIES AND REQUIREMENTS.

B. COORDINATE THE MOUNTING HEIGHTS FOR ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES WITH ARCHITECTURAL WALL ELEMENTS AND FEATURES. PLACE DEVICES SO THAT THEY ARE NOT PARTLY IN MORE THAN ONE SURFACE TREATMENTS, WALL MATERIALS OR TILE.

C. MICROPHONE LOCATIONS SHOWN ARE PRELIMINARY. INSTALL CONDUIT, WITH PULL CORD, FROM FURNITURE LOCATION TO NEAREST WALL, UNDERSLAB, AND EXTEND UP TO ACCESSIBLE CEILING SPACE. WHERE HARD CEILING EXISTS AT TOP OF WALL, COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE MINIMUM 8" X 8" ACCESS DOOR FOR ACCESS TO TOP OF CONDUIT. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

KEYNOTES

C1	
C02	PROVIDE 3/4" FIRE RESISTANT PLYWOOD BACKBOARD, PAINTED WHITE. PLYWOOD SHALL EXTEND FROM 2' A.F.F. TO 10' A.F.F.
C06	COORDINATE DEVICE MOUNTING HEIGHT WITH RAISED FLOORING.



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SECOND FLOOR - COMMUNICATIONS PLAN
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 040202 5/22/2019 REGISTERED BRIAN E. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO:	DATE:
571990	MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

SECOND FLOOR - COMMUNICATIONS PLAN

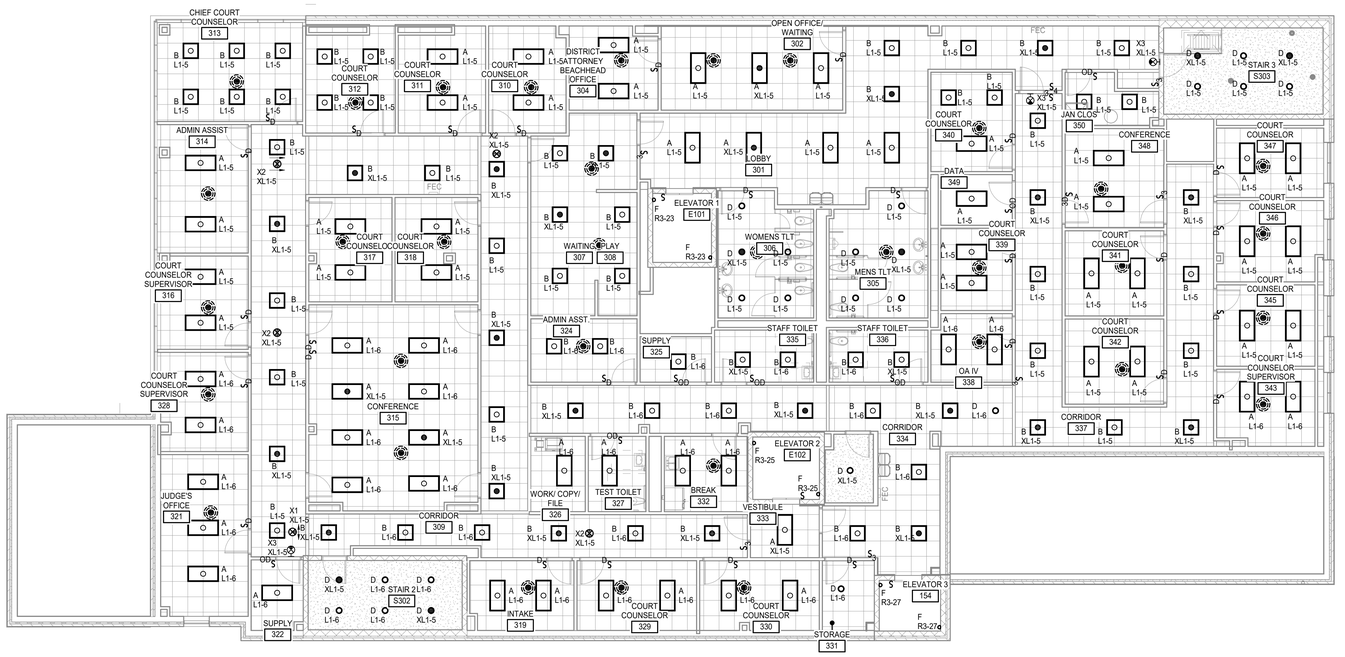
E2.2.4

5/22/2019 9:42:15 AM

GENERAL LIGHTING NOTES

A. OCCUPANCY SENSORS IN ALL OFFICES WILL BE PROGRAMMED TO FUNCTION AS VACANCY SENSORS.

KEYNOTES



N

THIRD FLOOR - LIGHTING PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE
571990	MAY 22, 2019

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THIRD FLOOR - LIGHTING PLAN

E2.3.1

5/22/2019 9:42:19 AM

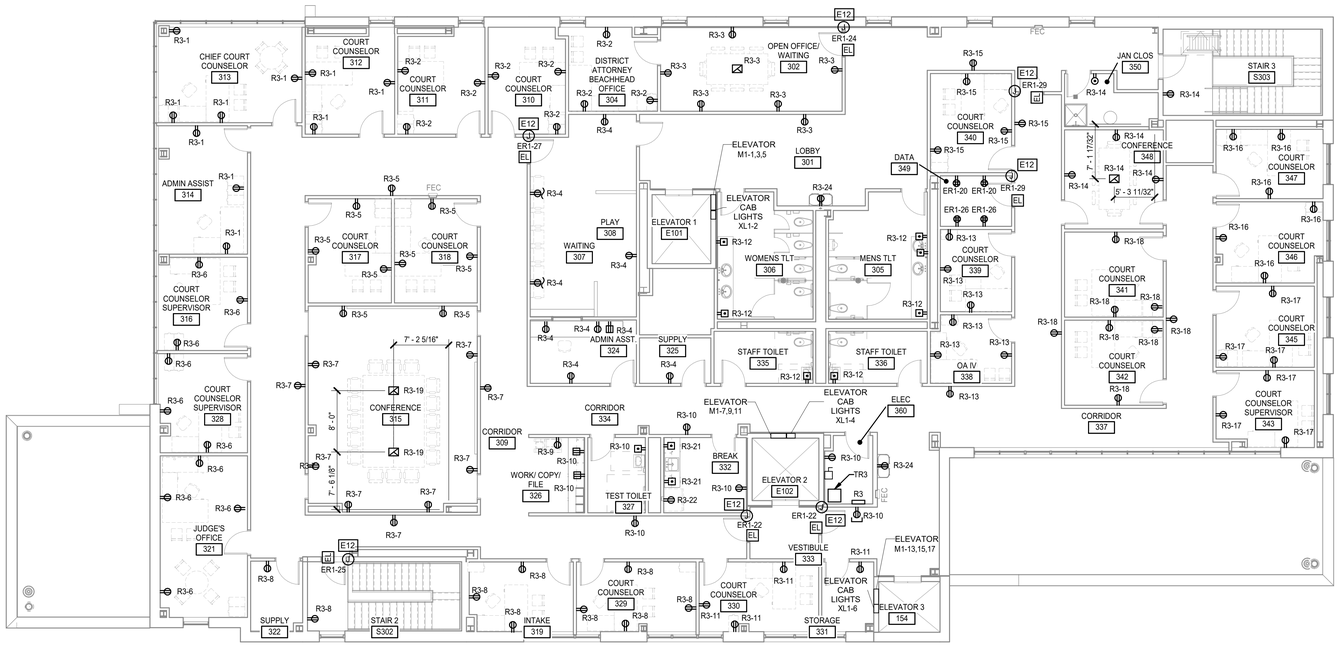
GENERAL POWER NOTES

A. FOR DEVICES AND EQUIPMENT BEING PROVIDED BY OTHERS, COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

B. ALL DEVICES SHOWN ARE DIAGRAMMATIC EXCEPT WHERE DIMENSIONS ARE CALLED OUT. COORDINATE INSTALLATION WITH OTHER TRADES.

KEYNOTES

E12	PROVIDE POWER FOR DOOR ACCESS CONTROL. REFER TO DETAIL 4 ON DRAWING SHEET E4.2. PROVIDE 2-#12 AWG AND 1-#12 AWG GROUND IN 3/4" CONDUIT AND TEMRINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATIONS AND ROUTING WITH DOOR HARDWARE PRIOR TO ROUGH-IN.



N

THIRD FLOOR - ELECTRICAL POWER PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

THIRD FLOOR - ELECTRICAL POWER PLAN

E2.3.2

5/22/2019 9:42:22 AM

GENERAL MECHANICAL POWER NOTES

A. MECHANICAL EQUIPMENT SHOWN IS BASED UPON A "BASIS OF DESIGN" MODEL AND IS NOT GUARANTEED TO BE WHAT IS INSTALLED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH VENDOR SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN.

B. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND BASED UPON THE TYPE AND SIZE OF THE "BASIS OF DESIGN" MODEL. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH MECHANICAL CONTRACTOR TO AVOID CONFLICTS AT INSTALLATION.

KEYNOTES

E15	FIRE/SMOKE DAMPER CONNECTION. ROUTE TWO #12 AWG CONDUCTORS AND ONE #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO SMOKE DAMPERS AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E18	ELECTRIC WATER HEATER. ROUTE FOUR #12 AWG CONDUCTORS AND ONE #12 GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO WATE HEATER AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E19	RECIRCULATION PUMP CONNECTION. ROUTE TWO #12 AWG AND ONE #12 AWG IN 3/4" CONDUIT FROM PANEL SHOWN TO PUMP AND TERMINATE PER MANUFACTURER'S INSTRUCTION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

N

THIRD FLOOR - MECHANICAL POWER PLAN
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

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THIRD FLOOR - MECHANICAL POWER PLAN

E2.3.3

5/22/2019 9:42:25 AM

GENERAL COMMUNICATIONS NOTES

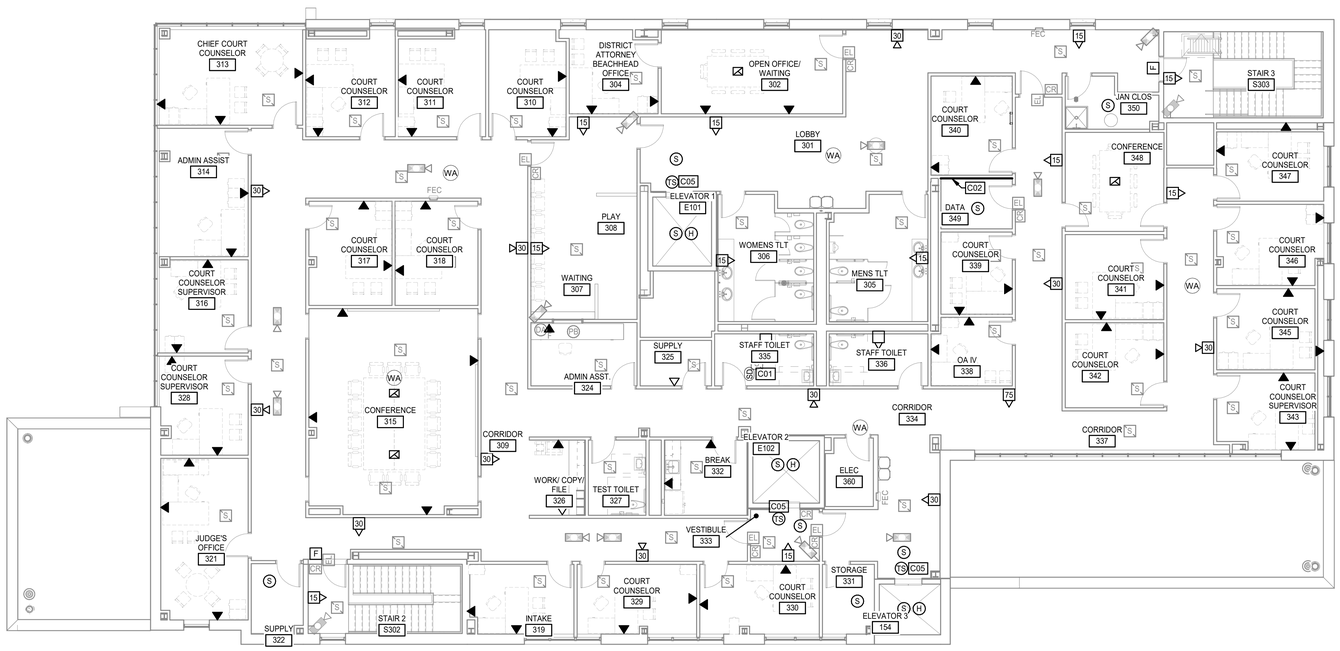
A. ALL DATA / TELEPHONE AND COMMUNICATIONS EQUIPMENT AND INFRASTRUCTURE SHALL COMPLY WITH CURRENT NEW HANOVER COUNTY ADMINISTRATIVE POLICIES AND REQUIREMENTS.

B. COORDINATE THE MOUNTING HEIGHTS FOR ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES WITH ARCHITECTURAL WALL ELEMENTS AND FEATURES. PLACE DEVICES SO THAT THEY ARE NOT PARTLY IN MORE THAN ONE SURFACE TREATMENTS, WALL MATERIALS OR TILE.

C. MICROPHONE LOCATIONS SHOWN ARE PRELIMINARY. INSTALL CONDUIT, WITH PULL CORD, FROM FURNITURE LOCATION TO NEAREST WALL, UNDERSLAB, AND EXTEND UP TO ACCESSIBLE CEILING SPACE. WHERE HARD CEILING EXISTS AT TOP OF WALL, COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE MINIMUM 8" X 8" ACCESS DOOR FOR ACCESS TO TOP OF CONDUIT. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH OWNER PRIOR TO DRYLIN.

KEYNOTES

C01	DUCT SMOKE DETECTOR. PROVIDE DEVICE TO MECHANICAL CONTRACTOR FOR INSTALLATION.
C02	PROVIDE 3/4" FIRE RESISTANT PLYWOOD BACKBOARD, PAINTED WHITE. PLYWOOD SHALL EXTEND FROM 2' A.F.F. TO 10' A.F.F.
C05	SPRINKLER LINE TAMPER SWITCHES. COORDINATE EXACT LOCATION OF DEVICES WITH PIPING INSTALLATION PRIOR TO ROUGH-IN.



N

THIRD FLOOR - COMMUNICATIONS PLAN
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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THIRD FLOOR - COMMUNICATIONS PLAN

E2.3.4

5/22/2019 9:42:27 AM

GENERAL POWER NOTES

A. MECHANICAL EQUIPMENT SHOWN IS BASED UPON A "BASIS OF DESIGN" MODEL AND IS NOT GUARANTEED TO BE WHAT IS INSTALLED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH VENDOR SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN.

B. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND BASED UPON THE TYPE AND SIZE OF THE "BASIS OF DESIGN" MODEL. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH MECHANICAL CONTRACTOR TO AVOID CONFLICTS AT INSTALLATION.

KEYNOTES

E20	EMERGENCY GAS CUTOFF.

N

ROOF - ELECTRICAL PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
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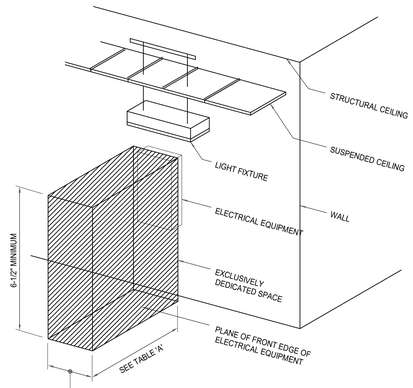
ROOF - ELECTRICAL PLAN

E2.4

5/22/2019 9:42:29 AM

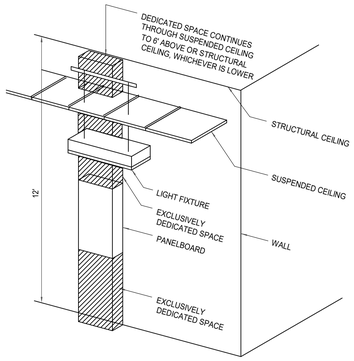


SHALL BE 30" OR WIDTH OF EQUIPMENT IF EQUIPMENT IS WIDER THAN 30". DOES NOT HAVE TO BE CENTERED ON THE EQUIPMENT BUT AT LEAST EVEN WITH ONE EDGE. EQUIPMENT DOOR SHALL BE ABLE TO OPEN AT LEAST 90 DEG.

NOTE:

1. THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-16 OF THE NATIONAL ELECTRIC CODE.

ALL ELECTRICAL EQUIPMENT



NOTE:

THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRE OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, E.T.C. TO AND FROM PANELBOARDS REQUIRED BY SECTION 110.26(E)(1) OF THE NATIONAL ELECTRIC CODE.

PANELBOARDS

GENERAL NOTES:

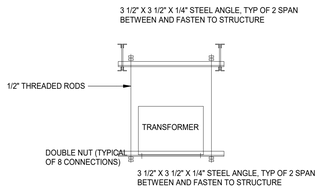
1. THIS EQUIPMENT INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT.
2. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN ABOVE.

TABLE 'A' - WORKING CLEARANCES			
VOLTAGE TO GROUND, NOMINAL	MINIMUM CLEAR DISTANCE		
	CONDITION 1	CONDITION 2	CONDITION 3
0-150	3'-0"	3'-0"	3'-0"
151-600	3'-0"	3'-6"	4'-0"

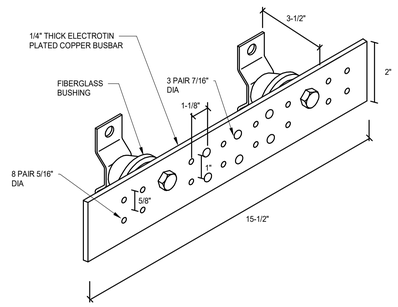
WHERE THE "CONDITIONS" ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GAURDED BY SUITABLE WOOD OR OTHER INSULATING MATERI'LS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GAURDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

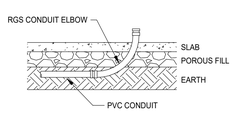
3 DEDICATED WORKING SPACE CLEARANCE REQUIREMENTS FOR ELECTRICAL EQUIPMENT
NO SCALE



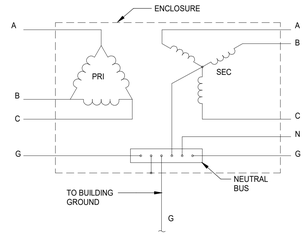
7 TRANSFORMER MOUNTING DETAIL
NO SCALE



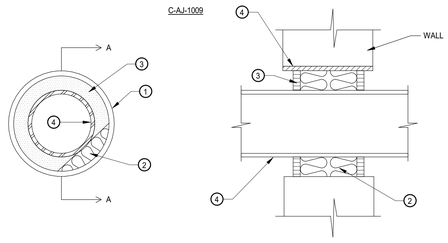
5 TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) DETAIL
NO SCALE



8 PVC TO EMT TRANSITION DETAIL
NO SCALE



6 TRANSFORMER GROUNDING DIAGRAM
NO SCALE



1. METALLIC SLEEVE - (OPTIONAL) NOMINAL 6"Ø (OR SMALLER) ELECTRIC METALLIC TUBING, STEEL CONDUIT OR CAST IRON PIPE CAST OR GROUTED INTO WALL ASSEMBLY, FLUSH WITH WALL SURFACES.

2. PACKING MATERIAL - MINIMUM 3" THICKNESS OF MINIMUM 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE CENTERED IN WALLS MID DEPTH AND RECESSED TO ALLOW FOR INSTALLATION OF FILL MATERIAL.

3. FILL, VOID OR CAVITY MATERIAL* -SEALANT- MINIMUM 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. IN WALLS, FILL MATERIAL TO BE APPLIED ON EACH SIDE OF PACKING MATERIAL.

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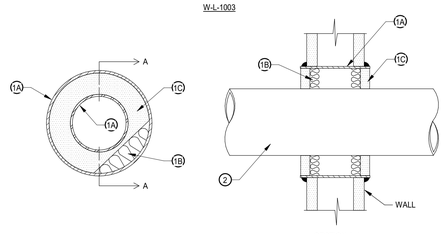
4. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOMINAL ANNULAR SPACE OF 3/4" IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED.

A. STEEL PIPE - NOMINAL 4"Ø (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.

B. CONDUIT - NOMINAL 4"Ø (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.

* BEARING THE UL CLASSIFICATION MARKING

2 PENETRATION THROUGH 2 HOUR FIRE RATED WALL
NO SCALE



1. FIRESTOP SYSTEM - INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

A. STEEL SLEEVE - CYLINDRICAL SLEEVE FABRICATED FROM MINIMUM 0.019" THICK (NO. 28 GAUGE) GALVANIZED SHEET STEEL AND HAVING A MINIMUM 2" LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL PLUS 1" SUCH THAT, WHEN INSTALLED, THE ENDS OF THE SLEEVE WILL PROJECT APPROXIMATELY 1/2" BEYOND THE SURFACE OF THE WALL ON BOTH SIDES OF THE WALL ASSEMBLY. THE DIAMETER OF THE OPENINGS CUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL ASSEMBLY (CONCENTRIC WITH PIPE) TO BE 2" TO 2-1/2" LARGER THAN OUTSIDE DIAMETER OF PIPE INSULATION SUCH THAT, WHEN THE STEEL SLEEVE IS INSTALLED, A 1" TO 1-1/4" ANNULAR SPACE WILL BE PRESENT BETWEEN THE STEEL SLEEVE AND THE PIPE INSULATION AROUND THE ENTIRE CIRCUMFERENCE OF THE PIPE. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAMETER SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENINGS AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM WALLBOARD LAYERS.

B. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR MINIMUM 1" THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF THE WALL ASSEMBLY AS PERMANENT FORMS. PACKING MATERIAL TO BE RECESSED MINIMUM 1" FROM END OF STEEL SLEEVE (RECESSED MINIMUM 1/2" INTO GYPSUM WALLBOARD SURFACE) ON BOTH SIDES OF WALL ASSEMBLY.

B1. PACKING MATERIAL -(NOT SHOWN)- AS AN ALTERNATE TO ITEM B, NOMINAL 1" THICK POLYETHYLENE BACKER ROD MAY BE USED. THE BACKER ROD IS TO BE RECESSED WITHIN THE STEEL SLEEVE A MINIMUM OF 1" FROM EACH SURFACE OF WALL.

C. FILL,VOID OR CAVITY MATERIALS* -CAULK- MINIMUM 1" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS ON BOTH SIDES OF WALL ASSEMBLY. THICKNESS FOR FILL MATERIAL FOR NOMINAL 3" DIAMETER (OR SMALLER) STEEL PIPES MAY BE REDUCED TO A MINIMUM 1/2". A NOMINAL 1/4" DIAMETER CONTINUOUS BEAD OF CAULK SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE STEEL SLEEVE AT ITS EGRESS FROM THE GYPSUM WALLBOARD LAYERS ON BOTH SIDES OF THE WALL ASSEMBLY.

MINNESOTA MINING & MFG. CO.- CP 25WB+

2. THROUGH PENETRANT - ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MINIMUM 0" TO MAXIMUM 1-3/8". PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:

A. STEEL PIPE - NOMINAL 12" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE - NOMINAL 12" DIAMETER (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOMINAL 12" DIAMETER (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPING.

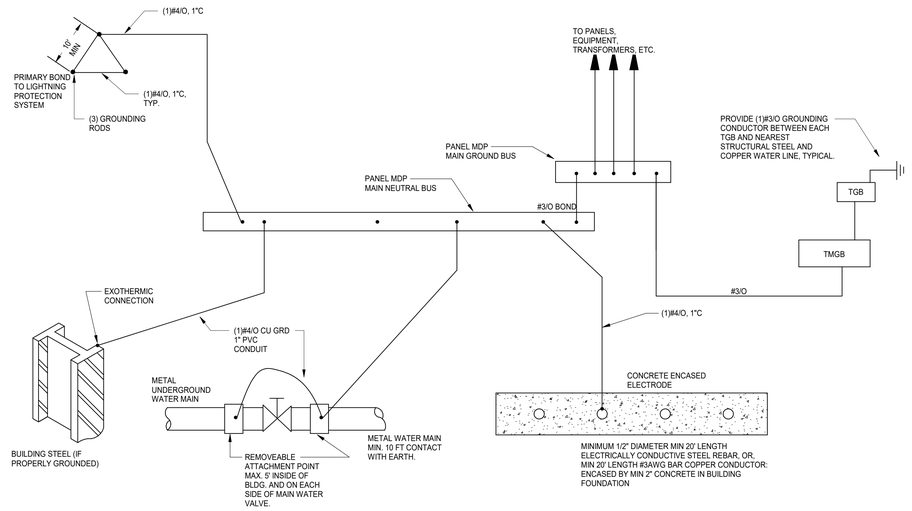
C. CONDUIT - NOMINAL 6" DIAMETER (OR SMALLER) STEEL CONDUIT OR NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC CONDUIT.

D. COPPER TUBING - NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

* BEARING THE UL CLASSIFICATION MARKING

1 PENETRATION THROUGH 1 HOUR FIRE RATED WALL
NO SCALE



4 GROUNDING SYSTEM DIAGRAM
NO SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040202 5/22/2019 BRYAN C. WELLS

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
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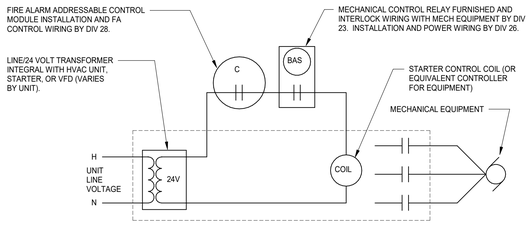
ELECTRICAL DETAILS

E4.1

5/22/2019 9:42:30 AM



SYSTEMS WITH MULTIPLE MOTORS REQUIRE ONE SHUTDOWN RELAY FOR EACH STARTER OR VFD. THERE MAY BE MORE THAN ONE DUCT SMOKE DETECTOR PER SYSTEM, BUT ONLY ONE CONTROL MODULE IS REQUIRED PER MOTOR. SHUTDOWN IS VIA CONTROL MODULE, NOT VIA DUCT DETECTOR AUX CONTACTS. COORDINATE W/ DIV 23.

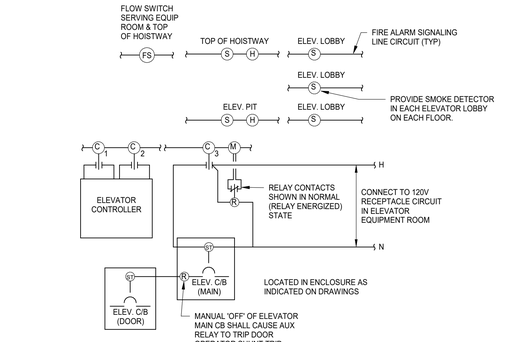
UNDER NORMAL CONDITIONS, FA SYSTEM POWERS THE NORMALLY OPEN FA CONTROL MODULE CONTACT TO THE CLOSED POSITION TO ALLOW NORMAL UNIT CONTROL BY BAS.

UPON ALARM SIGNAL FROM THE FIRE ALARM SYSTEM, THE CONTACTS IN THE FA SYSTEM RELEASES CONTROL MODULE TO OPEN POSITION, CAUSING SHUTDOWN OF ASSOCIATED HVAC EQUIPMENT. HVAC EQUIPMENT SHALL NOT BE OPERABLE UNTIL FA CONTROL MODULE IS RESET TO NORMAL CLOSED POSITION.

DIVISION 23 SHALL PROVIDE WIRING BETWEEN BETWEEN FA AND BAS CONTROL MODULES AND HVAC EQUIPMENT CONTROLLER (STARTER, VFD, OR INTEGRAL CONTROL PANEL).

5 FIRE ALARM HVAC UNIT SHUTDOWN WIRING DIAGRAM

NO SCALE



LEGEND

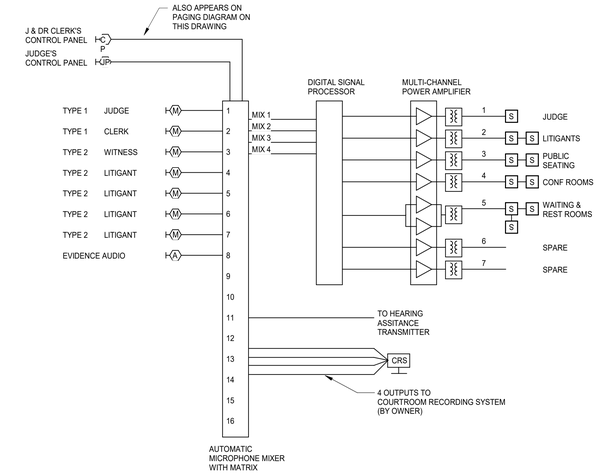
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- ST — SHUNT TRIP COIL/BREAKER (VERIFY CONTROL VOLTAGE - PROVIDE TRANSFORMER IF 24V)
- C — FIRE ALARM ADDRESSABLE CONTROL MODULE
- M — FIRE ALARM ADDRESSABLE MONITOR MODULE
- R — RELAY
- S — SMOKE DETECTOR FOR ELEVATOR RECALL
- H — HEAT DETECTOR (FOR SHUNT TRIP)
- FS — SPRINKLER FLOW SWITCH MONITOR

NOTES:

1. AN ALARM SIGNAL FROM A SMOKE DETECTOR IN THE ELEVATOR HOISTWAY OR ELEVATOR LOBBY (OTHER THAN AT THE PRIMARY RECALL LEVEL) SHALL ACTUATE THE FIRST ELEVATOR CONTROL MODULE (C)1.
2. AN ALARM SIGNAL FROM A SMOKE DETECTOR IN THE ELEVATOR LOBBY AT THE PRIMARY RECALL LEVEL SHALL ACTUATE THE SECOND ELEVATOR CONTROL MODULE (C)2.
3. AN ALARM SIGNAL FROM A HEAT DETECTOR OR FLOW SWITCH SERVING THE ELEVATOR HOISTWAY OR MACHINE ROOM SHALL ACTUATE THE SHUNT TRIP CONTROL MODULE (C)3, CAUSING THE ELEVATOR MAIN CIRCUIT BREAKER TO OPEN.
4. LOSS OF CONTROL POWER TO THE SHUNT TRIP BREAKER SHALL OPEN THE RELAY CONTACTS AND INITIATE A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM.
5. FIRE ALARM CONTROL AND MONITOR MODULES SHALL BE MOUNTED WITHIN 36" OF THE EQUIPMENT CONTROLLED OR MONITORED.
6. A HEAT DETECTOR FOR ELEVATOR SHUNT TRIP SHALL BE PROVIDED WITHIN 24" OF EACH SPRINKLER IN THE ELEVATOR HOISTWAY AND MACHINE ROOM.

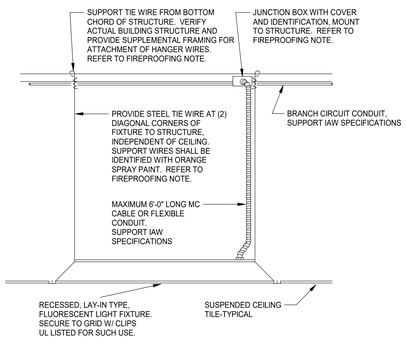
3 ELEVATOR RECALL & SHUNT TRIP DIAGRAM

NO SCALE



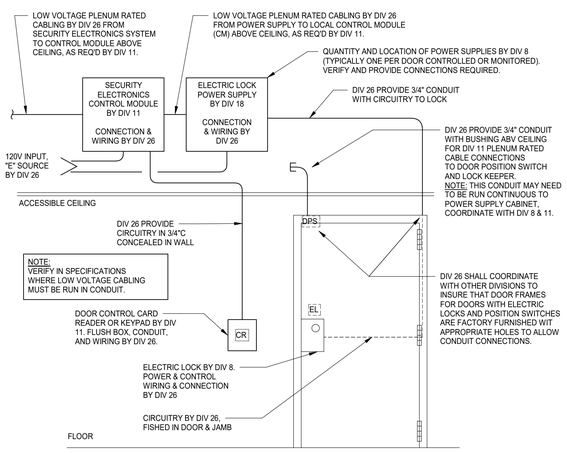
1 DISTRICT COURTROOM G130 SOUND SYSTEM DIAGRAM

NO SCALE



6 RECESSED, LAY-IN, FLUORESCENT LIGHT FIXTURE MOUNTING DETAIL

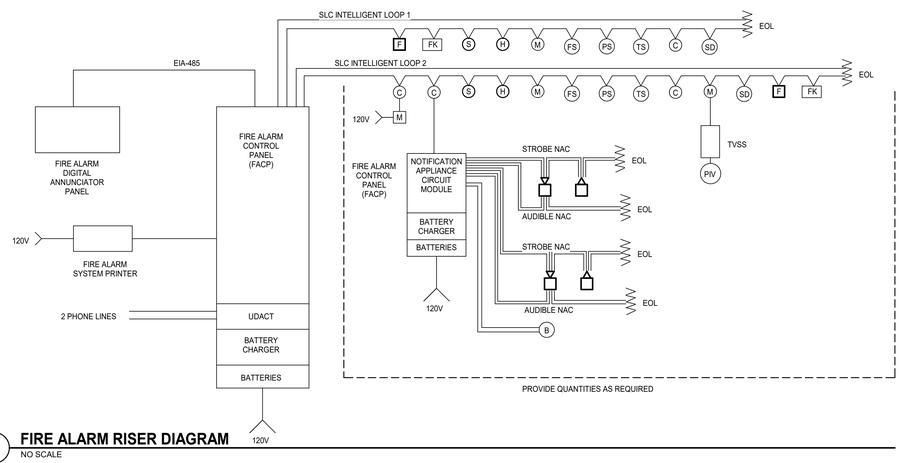
NO SCALE



4 ELECTRIC LOCK/CARD READER/SECURITY ELECTRONICS DOOR POSITION SWITCH CONNECTION DETAIL

EL CR DPS

NO SCALE



2 FIRE ALARM RISER DIAGRAM

NO SCALE

MOSELEY ARCHITECTS
11430 NORTH COMMUNITY HOUSE ROAD GIBSON BUILDING SUITE 225 CHARLOTTE, NC 28277
PHONE (704) 540-3755 FAX (704) 540-3754
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040202 5/22/2019 BRYAN C. MOSELEY

DIVISION OF JUVENILE JUSTICE

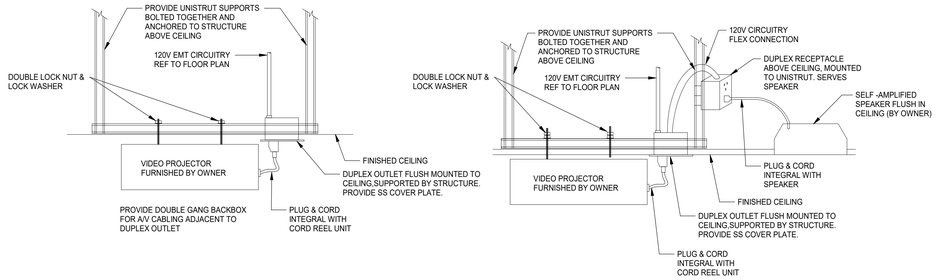
NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

ELECTRICAL DETAILS

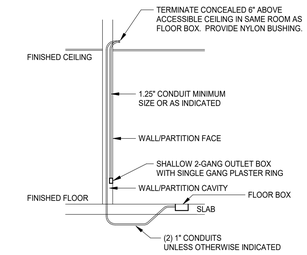
E4.2

5/22/2019 9:42:31 AM



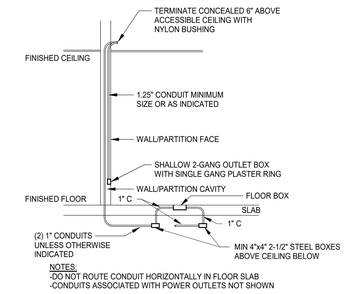
VIDEO PROJECTOR SUPPORT & POWER DETAIL

NO SCALE



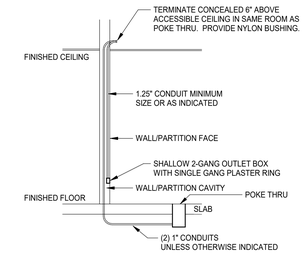
TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - FLOOR BOX

NO SCALE



TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - JUNCTION BOXES BELOW FLOOR

NO SCALE



TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - POKE THRU

NO SCALE

MOSELEY ARCHITECTS
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NORTH CAROLINA PROFESSIONAL SEAL 040202 5/22/2019 ENGINEER BRIAN E. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO.	DATE:
571990	MAY 22, 2019

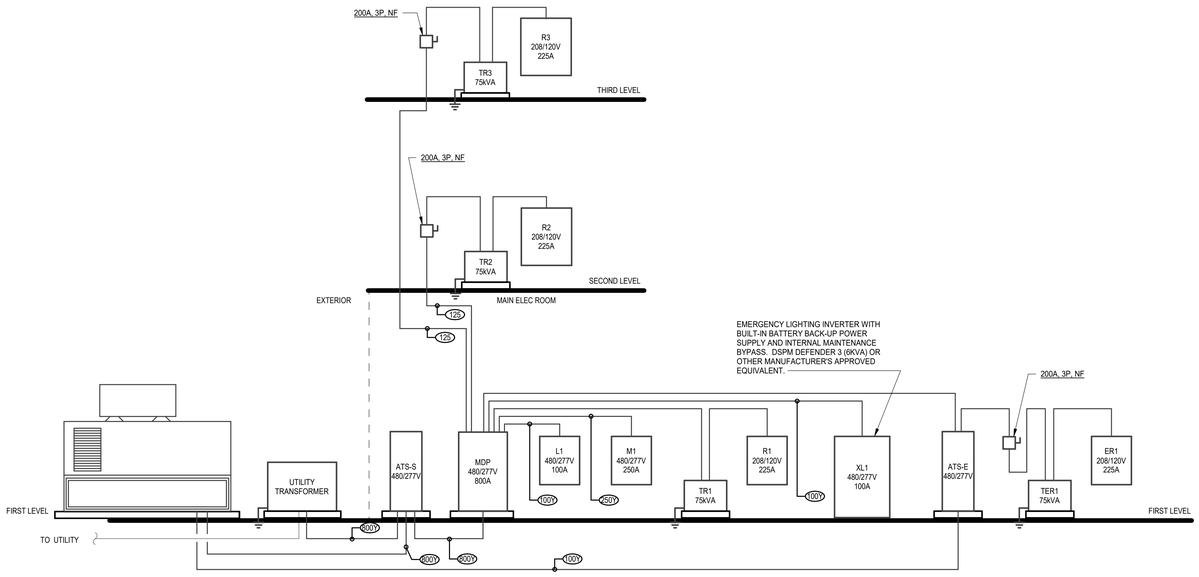
REVISIONS

DATE	DESCRIPTION

ELECTRICAL DETAILS

E4.3

5/22/2019 9:42:32 AM



ONE LINE/RISER DIAGRAM

PANELBOARD SCHEDULE MDP

LOCATION: ELECTRICAL ROOM 125 — FED FROM: ATS-S

800 AMP — 480Y/277V — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 100 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1				16.7	2.0								2
3	125 A	3	TR1			14.1	2.2			L1	3	100 A	4
5								12.9	2.5				6
7				11.0	48.2								8
9	125 A	3	TR2			12.4	48.2			M1	3	250 A	10
11								9.4	48.2				12
13				17.4	1.7								14
15	125 A	3	TR3			14.7	1.5			XL1	3	100 A	16
17								17.6	1.3				18
19				7.7									20
21	125 A	3	ATS-E			8.7							22
23								6.9					24
25													26
27													28
29													30
31													32
33													34
35													36
37					64.1								38
39							64.1			RTU-1	3	250 A	40
41									64.1				42
				169 kVA		166 kVA		163 kVA					
				611 A		600 A		587 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	9746 VA	125.00%	12183 VA
EXTERIOR LIGHTING	270 VA	125.00%	338 VA
RECEPTACLES	79200 VA	56.31%	44600 VA
AC / HEAT PUMP	205720 VA	98.03%	201670 VA
ELECTRIC HEAT	44469 VA	100.00%	44469 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	19000 VA	70.79%	13450 VA

Panel Totals

Total Conn. Load: 497.2 kVA
Total Est. Demand: 453.2 kVA
Total Conn. Current: 598 A
Total Est. Demand... 545 A

Mechanical Equipment - ELECTRICAL DATA

Mark	Voltage	Poles	hP	FLA	MCA	MOCP	kVA	Disconnect	Branch Circuiting	Panel	Circuit Number	Comments
B-1	120 V	1		10.0 A	0.0 A		1.2 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R3	81	
B-2	120 V	1		10.0 A	0.0 A		1.2 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R3	83	
BAS PANEL	120 V	1					0.0 kVA	N/A	2-#12, 1-#12 G, 3/4" C.	R3	79	
CU-1	208 V	2			13.0 A	20.0 A	2.7 kVA	30A2PNF, NEMA 3R	3-#12, 1-#12 G, 3/4" C.	R3	66,68	
CU-2	208 V	2			13.0 A	20.0 A	2.7 kVA	30A2PNF, NEMA 3R	3-#12, 1-#12 G, 3/4" C.	R3	70,72	
CU-3	208 V	2			13.0 A	20.0 A	2.7 kVA	30A2PNF, NEMA 3R	3-#12, 1-#12 G, 3/4" C.	R3	74,76	
CU-4	208 V	2			13.0 A	20.0 A	2.7 kVA	30A2PNF, NEMA 3R	3-#12, 1-#12 G, 3/4" C.	R3	78,80	
CU-5	208 V	2			13.0 A	20.0 A	2.7 kVA		3-#12, 1-#12 G, 3/4" C.	R3	82,84	
DSS-1	208 V	2		0.0 A	1.0 A	20.0 A	0.2 kVA	N/A	3-#12, 1-#12 G, 3/4" C.			POWERED BY OUTDOOR UNIT
DSS-2	208 V	2		0.0 A	1.0 A	20.0 A	0.2 kVA	N/A	3-#12, 1-#12 G, 3/4" C.			POWERED BY OUTDOOR UNIT
DSS-3	208 V	2		0.0 A	1.0 A	20.0 A	0.2 kVA	N/A	3-#12, 1-#12 G, 3/4" C.			POWERED BY OUTDOOR UNIT
DSS-4	208 V	2		0.0 A	1.0 A	20.0 A	0.2 kVA	N/A	3-#12, 1-#12 G, 3/4" C.			POWERED BY OUTDOOR UNIT
DSS-5	208 V	2		0.0 A	1.0 A	20.0 A	0.2 kVA	N/A	3-#12, 1-#12 G, 3/4" C.			POWERED BY OUTDOOR UNIT
EF-1	120 V	1					1.2 kVA	30A2PNF, NEMA 3R	2-#12, 1-#12 G, 3/4" C.	R3	71	
EF-2	120 V	1					0.5 kVA	30A2PNF, NEMA 3R	2-#12, 1-#12 G, 3/4" C.	R3	73	
EF-259	120 V	1					0.7 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R2	83	
EF-BOILER	115 V	1					0.1 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R3	77	
EF-ELEC125	120 V	1					0.7 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R1	79	
EF-ELEC360	120 V	1					0.7 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R3	75	
EF-VSP	120 V	1					0.7 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R1	81	
HWUH-1	120 V	1		9.0 A	15.0 A	15.0 A	1.1 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	83	
HWUH-2	120 V	1		0.8 A	1.0 A	1.8 A	0.1 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	69	
P-1	460 V	3	3	0.0 A	0.0 A	0.0 A	4.0 kVA	30A3PNF, NEMA 1	3-#12, 1-#12 G, 3/4" C.	M1	2,4,6	
P-2	460 V	3	3	0.0 A	0.0 A	0.0 A	4.0 kVA	30A3PNF, NEMA 1	3-#12, 1-#12 G, 3/4" C.	M1	8,10,12	
RTU-1	460 V	3		0.0 A	231.2 A	250.0 A	192.2 kVA	BY DIV. 23	4-350, 1-#4 G, 3" C.	MDP	38,40,42	
TU1-1	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	65	
TU1-2	120 V	1		0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	66	
TU1-2A	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	67	
TU1-2B	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	68	
TU1-3	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	69	
TU1-4	120 V	1		0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	70	
TU1-5	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	67	
TU1-6	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	67	
TU1-7	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	67	
TU1-8	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	71	
TU1-9	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	67	
TU1-10	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	72	
TU1-11	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	73	
TU1-12	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	75	
TU1-13	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R1	77	
TU2-1A	120 V	1		0.0 A	6.9 A	15.0 A	0.8 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	65	
TU2-1B	120 V	1		0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	67	
TU2-2	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	68	
TU2-3	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	69	
TU2-4	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	71	
TU2-5	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	73	
TU2-6	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	75	
TU2-7	120 V	1		0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	77	
TU2-8	120 V	1		0.0 A	5.4 A	15.0 A	0.7 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	79	
TU2-9	120 V	1		0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R2	81	
TU3-1	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	56	
TU3-2	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	57	
TU3-3	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	58	
TU3-4	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	59	
TU3-5	120 V	1		0.0 A	5.4 A	15.0 A	0.7 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	60	
TU3-6	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	61	
TU3-7	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	61	
TU3-8	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	61	
TU3-9	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	61	
TU3-10	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	62	
TU3-11	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	63	
TU3-12	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	61	
TU3-13	120 V	1					0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	61	
TU3-14	120 V	1		0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	64	
TU3-15	120 V	1		0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	65	
TU3-16	120 V	1		0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2-#12, 1-#12 G, 3/4" C.	R3	67	
UH-ELEC	208 V	2		11.0 A	13.8 A	20.0 A	3.0 kVA	30A2PNF, NEMA 1	3-#12, 1-#12 G, 3/4" C.	R1	74,76	
UH-S102	208 V	2		0.0 A	9.6 A	15.0 A	2.0 kVA	30A3PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R1	78,80	
UH-S103	208 V	2		0.0 A	9.6 A	15.0 A	2.0 kVA	30A3PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R1	82,84	
UH-S202	208 V	2		0.0 A	9.6 A	15.0 A	2.0 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R2	74,76	
UH-S203	208 V	2		0.0 A	9.6 A	15.0 A	2.0 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R2	70,72	
UH-S302	208 V	2		0.0 A	9.6 A	15.0 A	2.0 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R2	82,84	
UH-S303	208 V	2		0.0 A	9.6 A	15.0 A	2.0 kVA	30A2PNF, NEMA 1	2-#12, 1-#12 G, 3/4" C.	R2	78,80	

COPPER FEEDER SCHEDULE

FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10,#10 G	3/4"	30Y	1	4#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"	35Y	1	4#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"	40Y	1	4#8,#10 G	3/4"
45	1	3#6,#10 G	1"	45Y	1	4#6,#10 G	1"
50	1	3#6,#10 G	1"	50Y	1	4#6,#10 G	1"
60	1	3#4,#10 G	1"	60Y	1	4#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"	70Y	1	4#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"	80Y	1	4#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"	90Y	1	4#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"	100Y	1	4#1,#8 G	1 1/4"
110	1	3#2,#6 G	1 1/2"	110Y	1	4#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"	125Y	1	4#1,#6 G	1 1/2"
150	1	3#1/0,#6 G	2"	150Y	1	4#1/0,#6 G	2"
175	1	3#2/0,#6 G	2"	175Y	1	4#2/0,#6 G	2"
200	1	3#3/0,#6 G	2"	200Y	1	4#3/0,#6 G	2"
225	1	3#4/0,#4 G	2 1/2"	225Y	1	4#4/0,#4 G	2 1/2"
250	1	3-250kCM,#4 G	2 1/2"	250Y	1	4-250kCM,#4 G	2 1/2"
300	1	3-350kCM,#4 G	2 1/2"	300Y	1	4-350kCM,#4 G	2 1/2"
350	2	3#2/0,#3 G	2"	350Y	2	4#2/0,#3 G	2"
400	1	3-600kCM,#3 G	4"	400Y	1	4-600kCM,#3 G	4"
450	2	3#4/0,#2 G	2 1/2"	450Y	2	4#4/0,#2 G	2 1/2"
500	2	3-250kCM,#2 G	2 1/2"	500Y	2	4-250kCM,#2 G	2 1/2"
600	2	3-350kCM,#1 G	3"	600Y	2	4-350kCM,#1 G	3"
700	2	3-500kCM,#1/0 G	4"	700Y	2	4-500kCM,#1/0 G	4"
800	2	3-600kCM,#1/0 G	4"	800Y	2	4-600kCM,#1/0 G	4"
1000	3	3-500kCM,#2/0 G	4"	1000Y	3	4-500kCM,#2/0 G	4"
1200	4	3-350kCM,#3/0 G	3"	1200Y	4	4-350kCM,#3/0 G	3"
1600	4	3-600kCM,#4/0 G	4"	1600Y	4	4-600kCM,#4/0 G	4"
2000	5	3-600kCM,#250 G	4"	2000Y	5	4-600kCM,#250 G	4"
2500	6	3-600kCM,#350 G	4"	2500Y	6	4-600kCM,#350 G	4"

NOTES:
1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
2. FEEDER SIZES BASED ON TABLE 310.16, 75° C.
3. SIZES ADJUSTED PER NEC 110.14.

TRANSFORMER SCHEDULE

kVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR
15 kVA	LINEAR	480V-3Ø	208Y/120V	3#10,#10G,3/4" C	4#4,#6G,1"C	#8
30 kVA	LINEAR	480V-3Ø	208Y/120V	3#6,#10G,1"C	4#1,#6G,1-1/2"C	#6
45 kVA	LINEAR	480V-3Ø	208Y/120V	3#4,#6G,1-1/4"C	4#1/0,#4G,2"C	#4
75 kVA	LINEAR	480V-3Ø	208Y/120V	3#1,#6G,1-1/2"C	4-250kCM,#2G, 2-1/2"C	#2
112.5 kVA	LINEAR	480V-3Ø	208Y/120V	3#2/0,#6G,2"C	4-500KCM, #1/0G,4"C	#1/O
150 kVA	LINEAR	480V-3Ø	208Y/120V	3#4/0,#4G,2-1/2"C	(2 SETS) 4-250KCM, #3/0G, 2-1/2"C	#3/O
225 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#2/0,# 3-G,2"C	(2 SETS) 4-600KCM,#3/0G, 4"C	#3/O
300 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#4/0,# 2 G,2-1/2"C	(4 SETS) 4-350KCM,#3/0G, 4"C	#3/O

MOSELEYARCHITECTS
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040202 5/22/2019 REGISTERED BRIAN C. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990 | DATE: MAY 22, 2019

REVISIONS	
DATE	DESCRIPTION

POWER ONE-LINE DIAGRAM

E5.1

5/22/2019 9:42:34 AM

PANELBOARD SCHEDULE L1

LOCATION: ELECTRICAL ROOM 125 — FED FROM: MDP

100 AMP MLO — 480Y/277V — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 22 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	INTERIOR LIGHTING	0.9	1.2					INTERIOR LIGHTING TESTING/...	1	20 A	2
3	20 A	1	INTERIOR LIGHTING WAITING...			1.4	0.7			INTERIOR LIGHTING GALLERY...	1	20 A	4
5	20 A	1	INTERIOR LIGHTING CHIEF...					1.6	0.9	INTERIOR LIGHTING COURT...	1	20 A	6
7	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	8
9	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	10
11	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	12
				2 kVA		2 kVA		3 kVA					
				7 A		8 A		9 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	6716 VA	125.00%	8395 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	0 VA	0.00%	0 VA

Panel Totals

Total Conn. Load: 6.7 kVA
Total Est. Demand: 8.4 kVA
Total Conn. Current: 8 A
Total Est. Demand... 10 A

PANELBOARD SCHEDULE M1

LOCATION: ELECTRICAL ROOM 125 — FED FROM: MDP

250 A MLO — 480Y/277V — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 65 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1				11.0	1.3								2
3	45 A	3	ELEVATOR 1			11.0	1.3			P-1	3	20 A	4
5								11.0	1.3				6
7				11.0	1.3								8
9	45 A	3	ELEVATOR 2			11.0	1.3			P-2	3	20 A	10
11								11.0	1.3				12
13				11.0	3.3								14
15	45 A	3	ELEVATOR 3			11.0	3.3			EWH-1	3	20 A	16
17								11.0	3.3				18
19				2.5	3.3								20
21	20 A	3	DWBP-1			2.5	3.3			EWH-2	3	20 A	22
23								2.5	3.3				24
25				0.0	3.3								26
27	45 A	3	SPARE			0.0	3.3			EWH-3	3	20 A	28
29								0.0	3.3				30
31				0.0	0.0					SPACE ONLY	--	--	32
33	20 A	3	SPARE			0.0	0.0			SPACE ONLY	--	--	34
35								0.0	0.0	SPACE ONLY	--	--	36
37	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	38
39	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	40
41	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	42
				48 kVA		48 kVA		48 kVA					
				174 A		174 A		174 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	30000 VA	100.00%	30000 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	0 VA	0.00%	0 VA

Panel Totals

Total Conn. Load: 144.5 kVA
Total Est. Demand: 146.4 kVA
Total Conn. Current: 174 A
Total Est. Demand... 176 A

PANELBOARD SCHEDULE R3

LOCATION: SUPPLY 360 — FED FROM: TR3

225 AMP MCB — 208Y/120V — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 22 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	RECEPTACLES CHIEF COURT...	1.8	1.6					RECEPTACLES COURT...	1	20 A	2
3	20 A	1	RECEPTACLES OPEN OFFICE/...			1.4	1.6			RECEPTACLES WAITING 307	1	20 A	4
5	20 A	1	RECEPTACLES COURT...					1.6	1.8	RECEPTACLES COURT...	1	20 A	6
7	20 A	1	RECEPTACLES CORRIDOR 309	1.6	1.6					RECEPTACLES SUPPLY 322	1	20 A	8
9	20 A	1	RECEPTACLES WORK/ COPY/...			0.2	1.4			RECEPTACLES WORK/ COPY/...	1	20 A	10
11	20 A	1	RECEPTACLES COURT...					0.7	1.1	RECEPTACLES WOMENS TLT 306	1	20 A	12
13	20 A	1	RECEPTACLES CORRIDOR 334	1.3	1.3					RECEPTACLES DATA 349	1	20 A	14
15	20 A	1	RECEPTACLES DATA 349			0.9	1.1			RECEPTACLES COURT...	1	20 A	16
17	20 A	1	RECEPTACLES COURT...					1.1	1.4	RECEPTACLES COURT...	1	20 A	18
19	20 A	1	RECEPTACLES	0.7	0.9					RECEPTACLES	1	20 A	20
21	20 A	1	RECEPTACLES BREAK 332			0.4	0.2			REFRIGERATOR BREAK 332	1	20 A	22
23	20 A	1	INTERIOR LIGHTING					0.1	0.4	RECEPTACLES ROOM 301, 334	1	20 A	24
25	20 A	1	INTERIOR LIGHTING	0.1	0.0					SPARE	1	20 A	26
27	20 A	1	INTERIOR LIGHTING			0.1	0.0			SPARE	1	20 A	28
29	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	30
31	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	32
33	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	34
35	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	36
37	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	38
39	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	40
41	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	42
43	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	44
45	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	46
47	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	48
49	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	50
51	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	52
53	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	54
55	--	--	SPACE ONLY	0.0	0.2					TU3-1 CHIEF COUNSELOR 313	1	15 A	56
57	15 A	1	TU3-2 COURT COUNSELOR 311			0.2	0.2			TU3-3 OPEN OFFICE / WAITING...	1	15 A	58
59	15 A	1	TU3-4 LOBBY 301					0.2	0.7	TU3-5 CORRIDOR 309	1	15 A	60
61	15 A	1	TU3-6, 7, 8, 9, 12, 13	1.2	0.2					TU3-10 CORRIDOR 337B	1	15 A	62
63	15 A	1	TU3-11 CORRIDOR 309			0.2	0.7			TU3-14 COURT COUNSELOR 330	1	15 A	64
65	15 A	1	TU3-15 CORRIDOR 334					0.7	1.4	CU-1	2	20 A	66
67	15 A	1	TU3-16 CORRIDOR 337C	0.2	1.4								68
69	20 A	1	HWUH-2 BOILER ROOM			0.1	1.4			CU-2	2	20 A	70
71	20 A	1	EF-1					1.2	1.4				72
73	20 A	1	EF-2	0.5	1.4					CU-3	2	20 A	74
75	20 A	1	EF-ELEC351			0.7	1.4						76
77	20 A	1	EF-BOILER					0.1	1.4	CU-4	2	20 A	78
79	20 A	1	BAS PANEL BOILER ROOM	0.0	1.4								80
81	20 A	1	B-1			1.2	1.4			CU-5	2	20 A	82
83	20 A	1	B-2					1.2	1.4				84
				17 kVA		15 kVA		18 kVA					
				148 A		122 A		150 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	192 VA	125.00%	240 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	26100 VA	69.16%	18050 VA
AC / HEAT PUMP	13500 VA	76.00%	10260 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	0 VA	0.00%	0 VA

Panel Totals

Total Conn. Load: 49.6 kVA
Total Est. Demand: 37.4 kVA
Total Conn. Current: 138 A
Total Est. Demand... 104 A

PANELBOARD SCHEDULE R2

LOCATION: MECH 259 — FED FROM: TR2

225 AMP MCB — 208Y/120V — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 22 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	RECEPTACLES	1.4	1.6					RECEPTACLES CORRIDOR 260C	1	20 A	2
3	20 A	1	RECEPTACLES CONF 251			1.4	0.7			RECEPTACLES COURT ROOM A...	1	20 A	4
5	20 A	1	RECEPTACLES COURT ROOM A...					0.7	1.3	RECEPTACLES COURT ROOM A...	1	20 A	6
7	20 A	1	RECEPTACLES COURT ROOM A...	0.2	0.9					RECEPTACLES VESTIBULE 239	1	20 A	8
9	20 A	1	RECEPTACLES WOMENS TLT 226			1.3	0.0			SHADE CONTROL RM 206A	2	20 A	10
11	20 A	2	SHADE CONTROL RM 246 STORAGE 247					0.0	0.0	STORAGE 247			12
13				0.0	0.9					RECEPTACLES STAIR 2 S202	1	20 A	14
15	20 A	1	RECEPTACLES SECURITY...			1.3	1.8			RECEPTACLES CONF 229	1	20 A	16
17	20 A	1	RECEPTACLES EVID 245					0.7	0.7	RECEPTACLES EVID 245	1	20 A	18
19	20 A	1	RECEPTACLES CORRIDOR 219	1.1	0.7					RECEPTACLES COURT ROOM B...	1	20 A	20
21	20 A	1	RECEPTACLES COURT ROOM B...			0.7	1.1			RECEPTACLES COURT ROOM B...	1	20 A	22
23	20 A	1	RECEPTACLES COURT ROOM B...					0.2	0.4	RECEPTACLES A/V 236	1	20 A	24
25	20 A	1	INTERIOR LIGHTING ELEVATOR...	0.1	0.4					RECEPTACLES	1	20 A	26
27	20 A	1	INTERIOR LIGHTING			0.1	0.0			SPARE	1	20 A	28
29	20 A	1	INTERIOR LIGHTING					0.1	0.0	SPARE	1	20 A	30
31	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	32
33	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	34
35	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	36
37	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	38
39	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	40
41	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	42
43	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	44
45	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	46
47	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	48
49	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	50
51	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	52
53	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	54
55	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	56
57	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	58
59	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	60
61	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	62
63	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	64
65	15 A	1	TU2-1A CORRIDOR 260					0.8	0.0	SPACE ONLY	--	--	66
67	15 A	1	TU2-01B CORRIDOR 260B	0.7	0.2					TU2-02 CORRIDOR 260C	1	15 A	68
69	15 A	1	TU2-03 CORRIDOR 260B			0.2	1.0			ELECTRIC HEAT STAIR 3 S203	2	20 A	70
71	15 A	1	TU2-04 CORRIDOR 262					0.2	1.0				72
73	15 A	1	TU2-05 ADA HOLDING CELL 225	0.2	1.0					ELECTRIC HEAT STAIR 2 S202	2	20 A	74
75	15 A	1	TU2-06 ADA HOLDING CELL 225			0.2	1.0						76
77	15 A	1	TU2-07 CORRIDOR 219					0.7	1.0	ELECTRIC HEAT	2	20 A	78
79	15 A	1	TU2-08 TRAINING/...	0.7	1.0								80
81	15 A	1	TU2-09 CHAMBER 243			0.7	1.0			ELECTRIC HEAT STAIR 2 S302	2	20 A	82
83	20 A	1	EF-ELEC244					0.7	1.0				84
				11 kVA		12 kVA		9 kVA					
				93 A		105 A		78 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	192 VA	125.00%	240 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	19440 VA	75.72%	14720 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	8000 VA	100.00%	8000 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	0 VA	0.00%	0 VA

Panel Totals

Total Conn. Load: 32.8 kVA
Total Est. Demand: 27.6 kVA
Total Conn. Current: 91 A
Total Est. Demand... 77 A

PANELBOARD SCHEDULE R1

LOCATION: ELECTRICAL ROOM 125 — FED FROM: TR1

225 AMP MCB — 208Y/120V — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 22 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	RECEPTACLES WORK ROOM 107	0.2	1.1					RECEPTACLES VESTIBULE 100	1	20 A	2
3	20 A	1	RECEPTACLES			1.3	1.3			RECEPTACLES WORK ROOM 107	1	20 A	4
5	20 A	1	RECEPTACLES					1.3	1.1	RECEPTACLES	1	20 A	6
7	20 A	1	RECEPTACLES CONFERENCE...	1.4	1.3					RECEPTACLES WOMENS TLT 131	1	20 A	8
9	20 A	1	RECEPTACLES DATA 133			0.7	0.7			RECEPTACLES DATA 133	1	20 A	10
11	20 A	1	RECEPTACLES CLERK OPEN...					1.1	0.5	MOTOR VEHICLE SALLYPORT 113	1	20 A	12
13	20 A	1	RECEPTACLES CLERK OPEN...	1.1	1.8					RECEPTACLES CLERK OPEN...	1	20 A	14
15	20 A	1	RECEPTACLES COMMUNITY...			1.6	1.3			RECEPTACLES ASST. 147	1	20 A	16
17	20 A	1	RECEPTACLES MENTAL HEALT...					1.6	0.2	RECEPTACLES COPIER ALCOV...	1	20 A	18
19	20 A	1	RECEPTACLES TESTING/ CONF...	1.8	1.6					RECEPTACLES MENTAL HEALT...	1	20 A	20
21	20 A	1	RECEPTACLES MENTAL HEALT...			1.6	0.2			REFRIGERATOR STAFF BREAK...	1	20 A	22
23	20 A	1	ICE MAKER STAFF BREAK 129					0.2	0.4	RECEPTACLES STAFF BREAK...	1	20 A	24
25	20 A	1	RECEPTACLES STAFF BREAK...	0.2	1.1					RECEPTACLES STAFF BREAK...	1	20 A	26
27	20 A	1	(GP) RECEPT VENDING 156			0.2	0.2			(GP) RECEPT VENDING 156	1	20 A	28
29	20 A	1	ELEVATOR PIT RECEP & LIGHT...					0.2	1.1	RECEPTACLES SEC VES 152	1	20 A	30
31	20 A	1	ELEVATOR PIT RECEP & LIGHT...	0.2	0.0					GEN BATT. CHGR	1	20 A	32
33	20 A	1	ELEVATOR PIT RECEP & LIGHT...			0.2	0.0			GEN COOLANT JACKET HTR	1	20 A	34
35	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	36
37	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	38
39	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	40
41	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	42
43	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	44
45	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	46
47	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	48
49	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	50
51	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	52
53	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	54
55	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	56
57	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	58
59	15 A	1	RCP-1					0.3	0.5	ESP-1	1	15 A	60
61	15 A	1	RCP-2	0.0	0.5					ESP-2	1	15 A	62
63	15 A	1	RCP-3			0.3	0.5			ESP-3	1	15 A	64
65	15 A	1	TU1-1 PRE-SCREENING 101					0.2	0.7	TU1-2 SCREENING 102	1	15 A	66
67	15 A	1	TU1-2A, 5, 6, 7, 9	1.0	0.2					TU1-2B CORRIDOR 112A	1	15 A	68
69	15 A	1	TU1-03 CORRIDOR 151			0.2	0.7			TU1-04 WORK ROOM 107	1	15 A	70
71	15 A	1	TU1-08 CORRIDOR 136					0.2	0.2	TU1-10 VENDING 156	1	15 A	72
73	15 A	1	TU1-11 STAFF BREAK 129	0.2	1.5					UH-ELEC125 ELECTRICAL ROOM 125	2	20 A	74
75	15 A	1	TU1-12 MENTAL HEALTH...			0.2	1.5						76
77	15 A	1	TU1-13 MENTAL HEALTH...					0.2	1.0	UH-S102 STAIR 2 S102	2	20 A	78
79	20 A	1	EF-ELEC125 ELECTRICAL ROO...	0.7	1.0								80
81	20 A	1	EF-VSP VEHICLE SALLYPORT 113			0.7	1.0			UH-S103 STAIR 3 S103	2	20 A	82
83	20 A	1	HWUH-1 VEHICLE SALLYPORT...					1.1	1.0				84
				17 kVA		14 kVA		13 kVA					
				141 A		119 A		107 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	192 VA	125.00%	240 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	27900 VA	67.92%	18950 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	6686 VA	100.00%	6686 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	1500 VA	80.00%	1200 VA

Panel Totals

Total Conn. Load: 43.7 kVA
Total Est. Demand: 33.9 kVA
Total Conn. Current: 121 A
Total Est. Demand... 94 A

MOSELEY ARCHITECTS
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040202 5/22/2019 BRYAN E. MOSELEY

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

PANEL SCHEDULES

E5.2

5/22/2019 9:42:36 AM

PANELBOARD SCHEDULE XL1

LOCATION: ELECTRICAL ROOM 125 | FED FROM: MDP

125 AMP MCB | 480Y/277V | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 65 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	INTERIOR LIGHTING - FIRST...	0.9	0.6					ELEVATOR 1 CAB LIGHTS	1	20 A	2
3	20 A	1	INTERIOR LIGHTING - SECOND...			0.9	0.6			ELEVATOR 2 CAB LIGHTS	1	20 A	4
5	20 A	1	INTERIOR LIGHTING CORRIDOR...					0.7	0.6	ELEVATOR 3 CAB LIGHTS	1	20 A	6
7	20 A	1	EXTERIOR LIGHTING	0.3	0.0					SPARE	1	20 A	8
9	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	10
11	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	12
				2 kVA		2 kVA		1 kVA					
				6 A		6 A		5 A					

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(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	2454 VA	125.00%	3068 VA
EXTERIOR LIGHTING	270 VA	125.00%	338 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	0 VA	0.00%	0 VA

Panel Totals

Total Conn. Load: 4.5 kVA
Total Est. Demand: 5.2 kVA
Total Conn. Current: 5 A
Total Est. Demand... 6 A

PANELBOARD SCHEDULE ER1

LOCATION: ELECTRICAL ROOM 125 | FED FROM: TER1

225 AMP MCB | 208Y/120V | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 22 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	FIRE / SMOKE DAMPERS FIRST...	0.2	0.2					RECEPTACLES DEPUTY 122	1	20 A	2
3	20 A	1	FIRE / SMOKE DAMPERS...			0.2	1.0			ACCESS CONTROL	1	20 A	4
5	20 A	1	FIRE / SMOKE DAMPERS THIRD...					0.2	1.5	ACCESS CONTROL CORRIDOR...	1	20 A	6
7	20 A	1	ACCESS CONTROL STAFF VES...	1.5	0.7					RECEPTACLES SEC ELEC 112B	1	20 A	8
9	20 A	1	ACCESS CONTROL CORRIDOR...			1.0	1.0			ACCESS CONTROL FILE...	1	20 A	10
11	20 A	1	RECEPTACLES ELECTRICAL...					0.5	0.7	RECEPTACLES DATA 228	1	20 A	12
13	20 A	1	RECEPTACLES SEC ELEC 112B	0.7	1.0					ACCESS CONTROL	1	20 A	14
15	20 A	1	ACCESS CONTROL ASST. 147			1.0	1.5			ACCESS CONTROL	1	20 A	16
17	20 A	1	RECEPTACLES DATA 228					0.7	1.0	ACCESS CONTROL SECURITY...	1	20 A	18
19	20 A	1	ACCESS CONTROL	1.5	0.7					RECEPTACLES COURT...	1	20 A	20
21	20 A	1	ACCESS CONTROL			1.5	1.0			ACCESS CONTROL CORRIDOR...	1	20 A	22
23	20 A	1	RECEPTACLES SEC ELEC 244					0.7	0.5	ACCESS CONTROL	1	20 A	24
25	20 A	1	ACCESS CONTROL	0.5	0.7					RECEPTACLES COURT...	1	20 A	26
27	20 A	1	ACCESS CONTROL			0.5	0.0			SPARE	1	20 A	28
29	20 A	1	ACCESS CONTROL COURT...					1.0	0.0	SPARE	1	20 A	30
31	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	32
33	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	34
35	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	36
37	--	--	SPACE ONLY	0.0	0.0					SPACE ONLY	--	--	38
39	--	--	SPACE ONLY			0.0	0.0			SPACE ONLY	--	--	40
41	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY	--	--	42
				8 kVA		9 kVA		7 kVA					
				65 A		74 A		57 A					

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Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	5760 VA	100.00%	5760 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	17500 VA	70.86%	12400 VA

Panel Totals

Total Conn. Load: 23.3 kVA
Total Est. Demand: 18.2 kVA
Total Conn. Current: 65 A
Total Est. Demand... 50 A

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NORTH CAROLINA PROFESSIONAL SEAL 040202 5/22/2019 ENGINEER BRIAN E. WELLS

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC

PROJECT NO: 571990	DATE: MAY 22, 2019

REVISIONS

DATE	DESCRIPTION

PANEL SCHEDULES

E5.3

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