

RE-BID

EDUCATION CENTER AND PAVILION

FOR THE

ROGER WILLIAMS PARK ZOO

PROVIDENCE, RHODE ISLAND



SACCOCCIO & ASSOCIATES, INC.
1085 PARK AVENUE CRANSTON, RI 02910

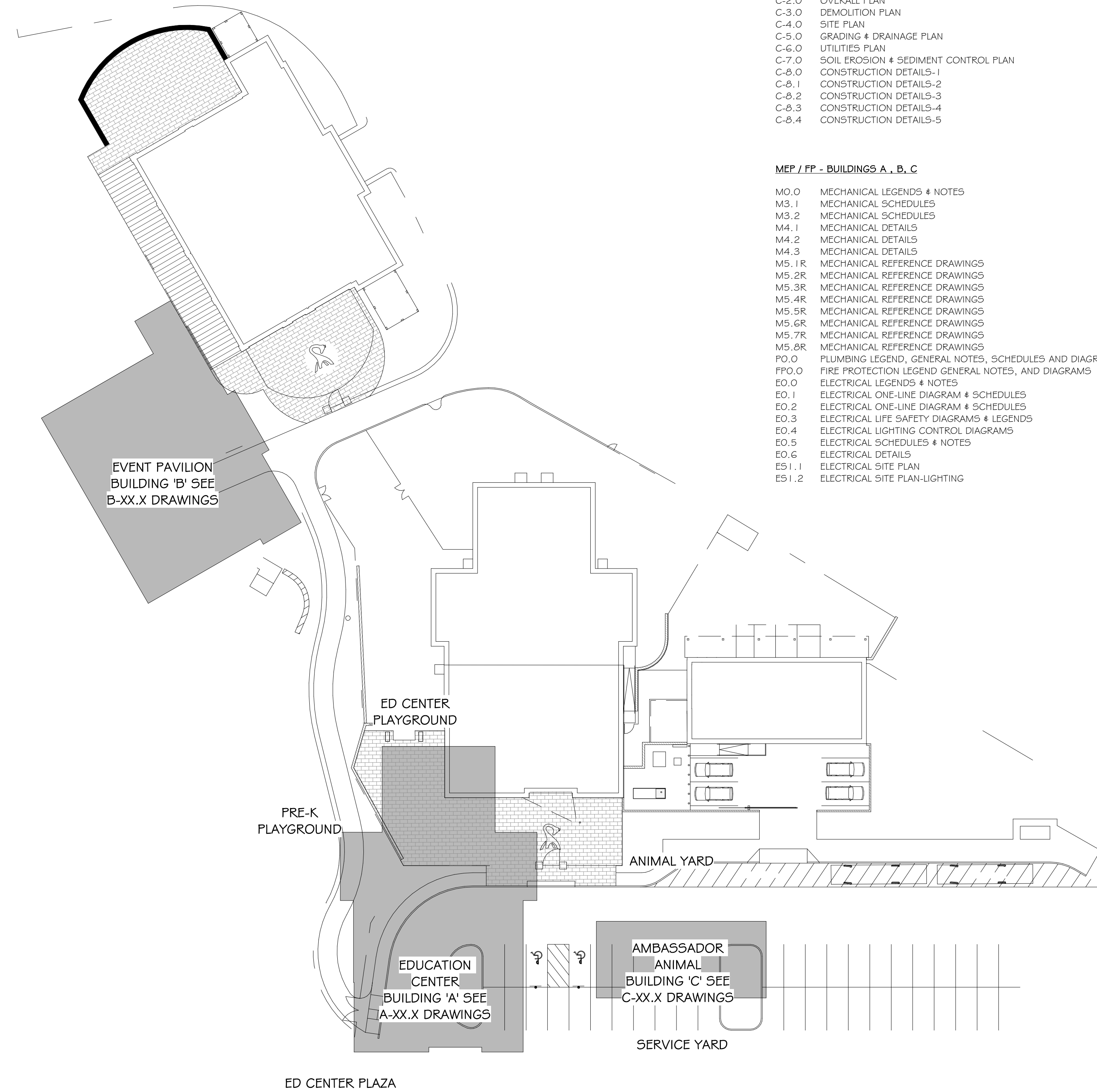
Garofalo & Associates, Inc.
CIVIL ENGINEERING & SURVEYING

C.A.Pretzer Associates Inc.
STRUCTURAL

Engineering Design Services
MECHANICAL, ELECTRICAL, PLUMBING
AND FIRE PROTECTION ENGINEERS

FOR BID
May 1, 2024

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PROJECT ELEVATION REFERENCES:

LEVEL	SURVEY ELEVATION	PROJECT ELEVATION
FIRST FLOOR LEVEL BLDG 'B' (EVENT PAVILION)	34' - 4"	0' - 8"
LOWER LEVEL BLDG 'A' (EDUCATION CENTER)	35' - 0"	0' - 0"
FIRST FLOOR LEVEL BLDG 'C' (AMBASSADOR ANIMAL)	36' - 6"	1' - 6"
TOP OF WALL @ SHED ROOF (EVENT PAVILION)	42' - 11"	7' - 11"
UPPER LEVEL BLDG 'B' (EDUCATION CENTER)	47' - 0"	12' - 0"
UPPER LEVEL BLDG 'C' (AMBASSADOR ANIMAL)	X	X
TOP OF PLATE 'D' (EDUCATION CENTER)	48' - 6"	13' - 6"
TOP OF PLATE 'A' (EDUCATION CENTER)	56' - 9"	21' - 9"
TOP OF PLATE 'B' (EDUCATION CENTER)	58' - 0"	23' - 0"
TOP OF PLATE 'C' (EDUCATION CENTER)	59' - 2 3/4"	24' 2 3/4"

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1" = 30'-0"

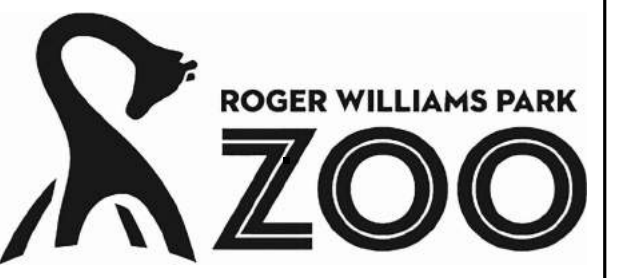
REFERENCE PLAN



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Education Center & Pavilion



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Revision Schedule	
Revision Number	Revision Date

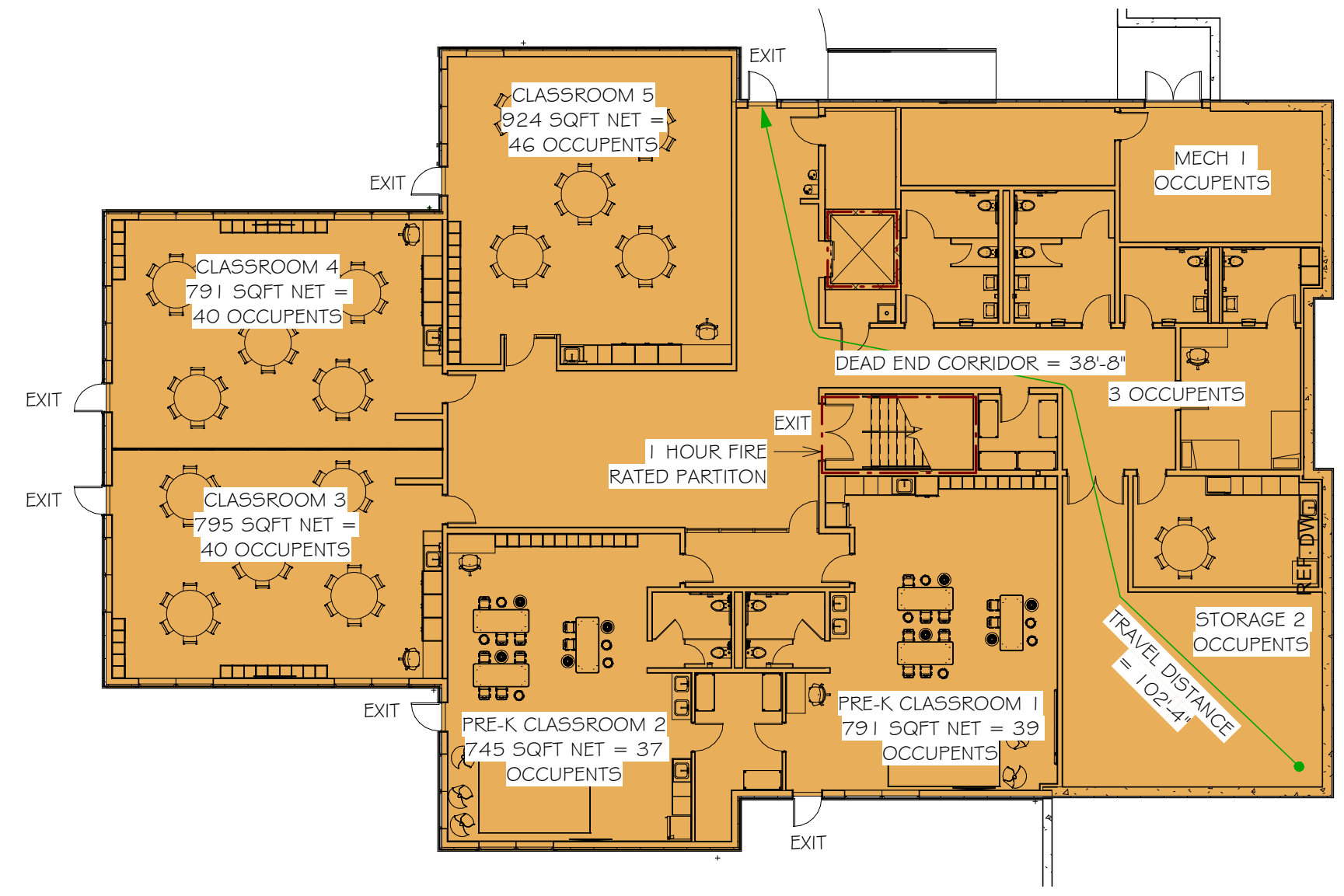
ISSUED FOR BID
April 18, 2024

SHEET TITLE PROJECT REFERENCE PLAN

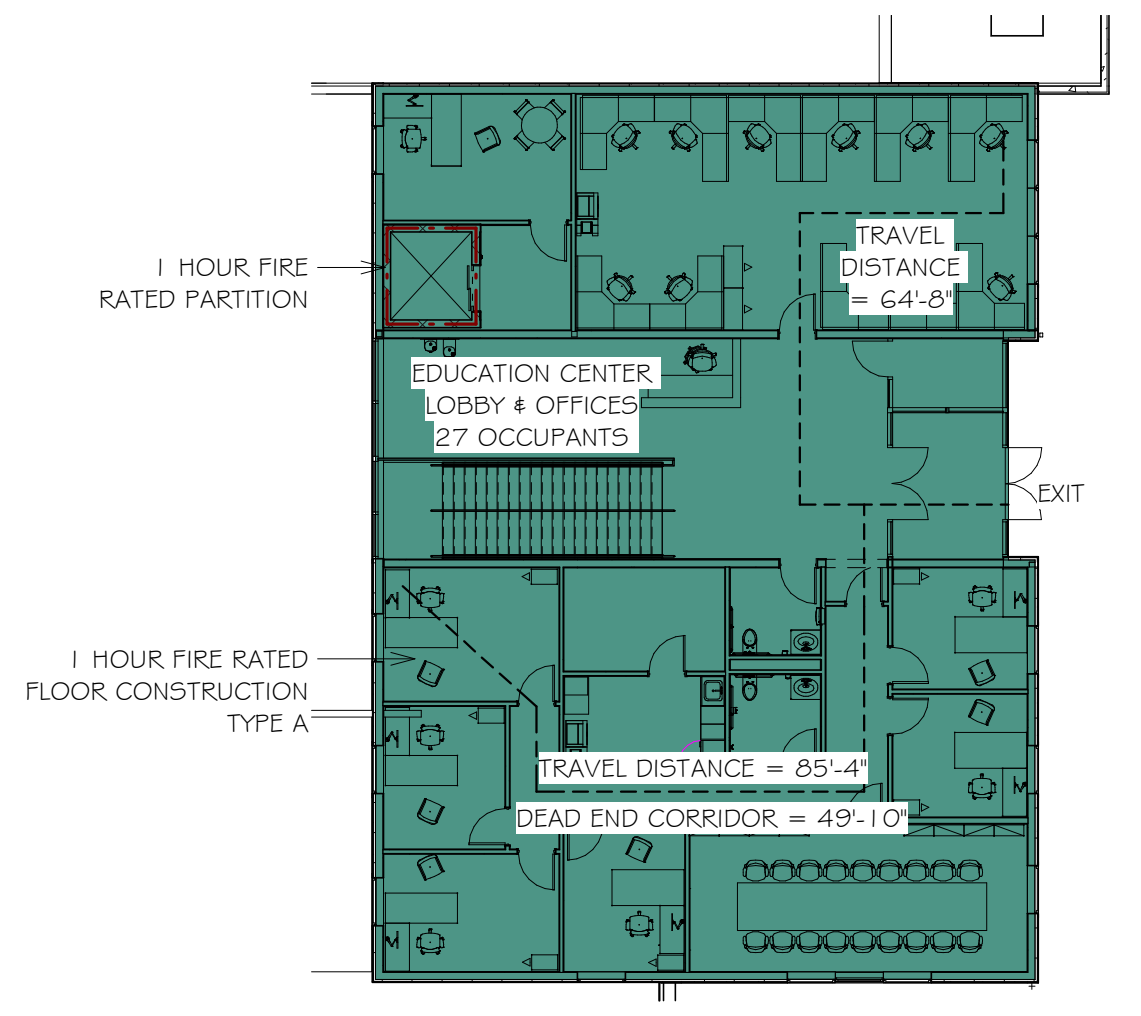
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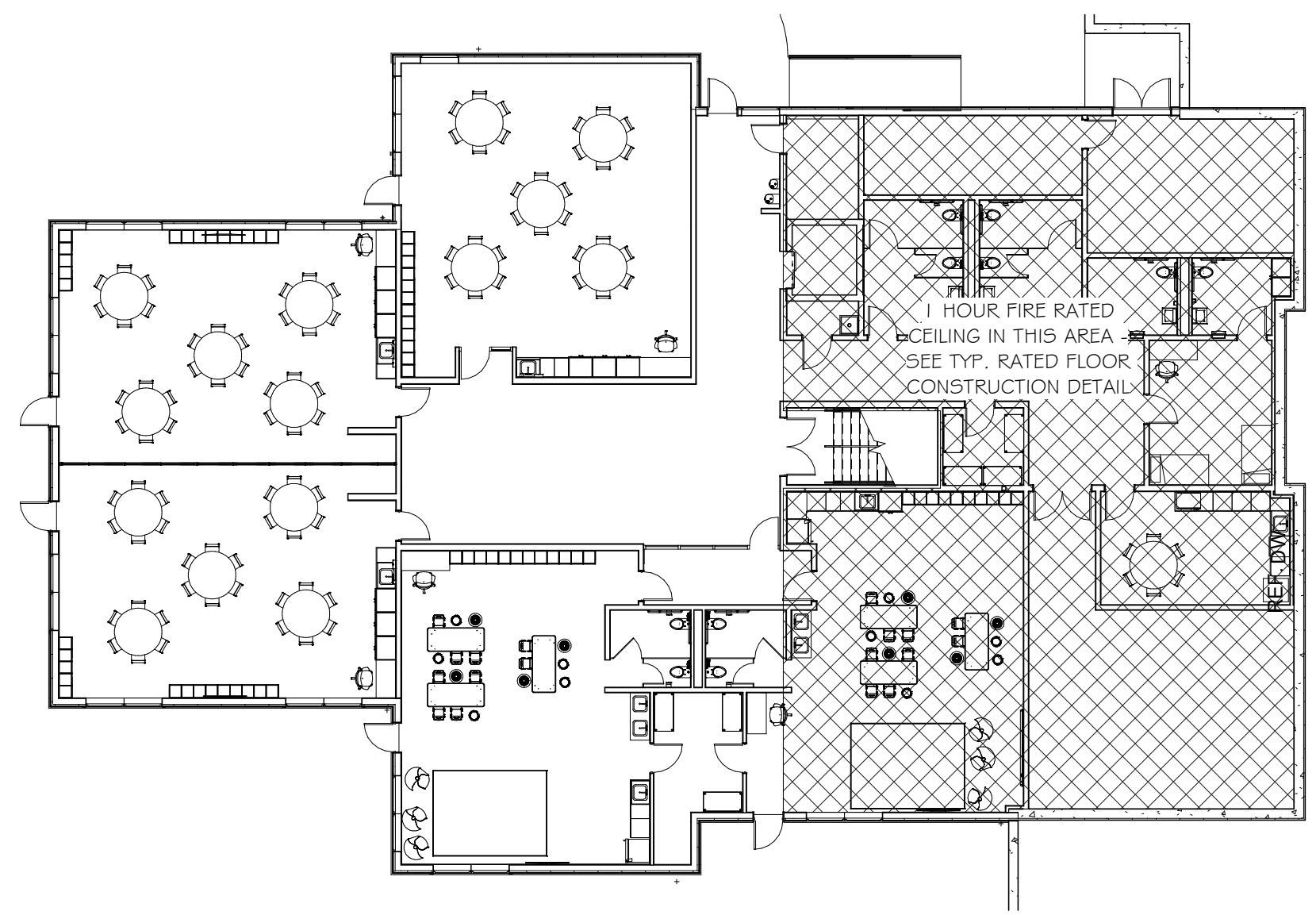
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1 LOWER FLOOR PLAN
1/16" = 1'-0"

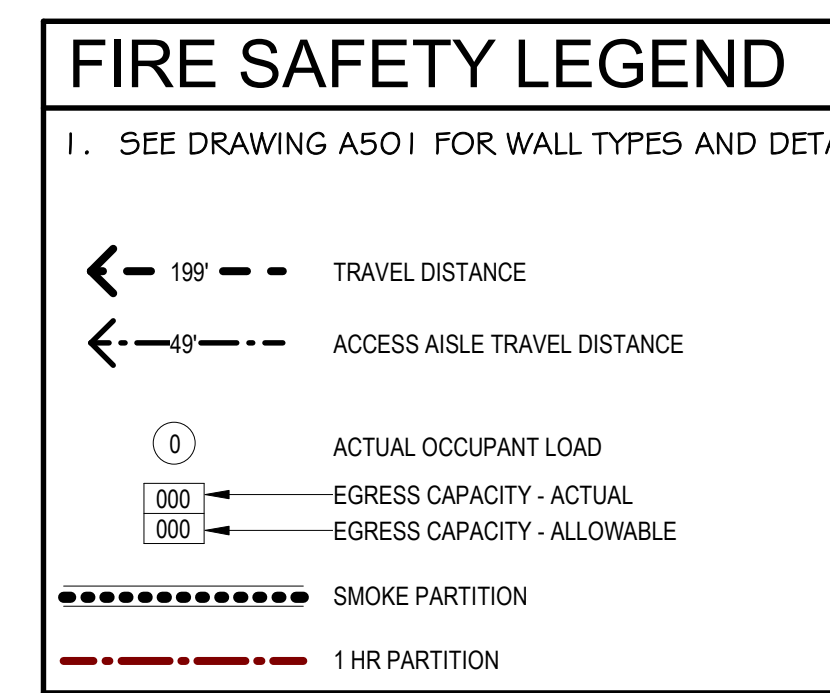


2 UPPER LEVEL FLOOR PLAN
1/16" = 1'-0"



3 LOWER FLOOR PLAN
1/16" = 1'-0"

- EDUCATION CENTER BUILDING ENERGY CONSERVATION REQUIREMENTS (TYP. UNLESS NOTED OTHERWISE ON DRAWINGS):
- ROOF INSULATION - MINIMUM R-60 (R-40 CONTINUOUS & R-20 FOAMED IN PLACE)
 - EXTERIOR WALL INSULATION - MINIMUM R-40 (R12 CONTINUOUS & R-28 FOAMED IN PLACE)
 - EXTERIOR FOUNDATION INSULATION - MINIMUM R-15 (3" RIGID INSULATION)
 - BELOW SLAB ON GRADE - MINIMUM R-20 (4" RIGID INSULATION)
 - BETWEEN UPPER & LOWER LEVEL - MINIMUM R-20
 - WALLS BETWEEN ANIMAL HOLDING ROOMS - MINIMUM R-20
 - ALLOWABLE AIR LEAKAGE - 0.10 CFM AT 75 PASCALS TEST PRESSURE PER SQ. FT. OF BUILDING ENCLOSURE



PROJECT DESCRIPTION

Education Center: 2-story 13,469 square feet including: office area, two Pre-k classrooms, three classrooms, and storage spaces all protected by automated sprinkler system. Event Pavilion: 7,000 square feet including: event space, kitchen, toilet rooms and storage. Ambassador Animal Building: 2-story 4,300 square feet including: Animal living spaces, storage and office space. Demolition of an existing 2,600 square foot green house. Modifications to the existing zoo parking and zoo walking paths.

CODE INFORMATION

- CODE LIST:**
- International Building Code, 2018 Edition, with Rhode Island Amendments SBC-1, 2021
 - International Plumbing Code, 2018 Edition, with Rhode Island Amendments SBC-3, 2021
 - International Mechanical Code, 2018 Edition, with Rhode Island Amendments SBC-4, 2021
 - International Electric Code, 2018 Edition, with Rhode Island Amendments SBC-5, 2021
 - International Energy Conservation Code, 2018 Edition, with Rhode Island Amendments SBC-8, 2021
 - ICC/ANSI A117.1 - 2009, Accessible and Usable Buildings and Facilities
 - NFPA-1 Fire Code, 2018 Edition, with Rhode Island Fire Code
 - NFPA-101 Life Safety Code, 2018 Edition, with Rhode Island Fire Safety Code
 - NFPA-150 Fire and Life Safety in Animal Housing Facilities Code, 2018 Edition
 - Rhode Island Regulations School Age Programs: 214-RICR-40-00-1
 - Rhode Island Food Code: 216-RICR-50-10-1
 - Rhode Island Regulations Governing Animal Care Facilities: 250-RICR-40-05-4
 - Rhode Island Elevator Safety Code: 260-RICR-30-10-1
 - U.S. Department of Agriculture "Animal Welfare Act and Animal Welfare Regulations" 2017

BUILDING CODE:
SECTION 3 - USE AND OCCUPANCY CLASSIFICATIONS
• Education Center: Business B (304.1), Education E (305.1) (Nonseparated Occupancy 508.3), Day Care classified as Education E Occupancy SBC-1 305.2.

SECTION 503 - ALLOWABLE HEIGHT / STORIES / AREAS

	Allowable	Actual
• Education Center: 5-B	40 feet height	39 feet height
• Nonseparated E: (sprinklered)	2 stories	2 stories
	38,000 sf	13,469 sf

SECTION 602 - CONSTRUCTION CLASSIFICATION
• Construction Type = Type VB

TABLE 601 - FIRE RESISTANCE RATING BUILDING ELEMENTS 5-B Education Center

• Structural Frame =	0 hr
• Exterior Bearing Walls =	0 hr
• Interior Bearing Walls =	0 hr
• Nonbearing exterior walls =	0 hr
• Nonbearing interior walls =	0 hr
• Floor Construction =	1 hr
• Roof Construction =	0 hr
• Elevator Shaft Enclosure =	1 hr (713.4)
• Corridor Wall =	0 hr (Table 1018.1, 1018.1-1)

TABLE 803.9 - INTERIOR WALL AND CEILING FINISH EXIT CORRIDOR ROOMS Education Center: (with automatic sprinkler system)

• B:	B	C	C
• E:	B	C	C

SECTION 804.4.2 - FLOOR FINISH EXIT & CORRIDOR Education Center: (with automatic sprinkler system)

- B, E Class II and DOC-FF-1

TABLE 1004.1.2 - OCCUPANT LOAD Education Center-Lower Level: E (education)

- E: 76 occupants/Pre-K + 126 occupants/Classrooms + 3 occupants/Offices + 3 occupants/Storage/Mech = 208 occupants
- Education Center-Upper Level: B (business) offices
- B: 27 occupants

TABLE 1005.3.2 - EGRESS SIZE

	Required	Provided
• Education Center - Lower Level:	42 inches	198 inches
• Education Center - Upper Level:	6 inches	69 inches

TABLE 1014.3 - COMMON PATH OF TRAVEL
• Education Center: E - 75 feet, B - 100 feet (sprinkled)

TABLE 1016.2 - TRAVEL DISTANCE TO AN EXIT
• Education Center: Max 250 feet (sprinkled)

SECTION 1020.4 - DEAD END CORRIDORS Education Center: (with automatic sprinkler system)

- Exception 2: 50 feet maximum

SECTION 11 - ACCESSIBILITY Education Center: building shall comply with accessibility requirements.

FIRE CODE CLASSIFICATIONS OF OCCUPANCY: Chapt 6

- Education Center: Mixed Use Occupancy 6.1.14.2.2 including New Education Chapt 14 and New Business 38.

CORRIDORS: EXIT ACCESS: Chapt 7
Chapter 14 New Education Occupancy

- Fire resistant walls not required

Chapter 38 New Business Occupancy

- Fire resistant walls not required

STAIRS / VERTICAL OPENINGS: Chapt 8
Chapter 14 New Education Occupancy

- Unprotected stair enclosure

Chapter 38 New Business Occupancy

- Stair enclosure not required

FINISHES: WALLS & CEILINGS: Chapt 10
Chapter 14 New Education Occupancy

- Finishes: Wall & Ceilings Exits - Class A, other Class A or B

Chapter 38 New Business Occupancy

- Finishes: Wall & Ceilings Exits - Class A or B, other Class A or B or C

FINISHES: FLOORS: Chapt 10
Chapter 14 New Education Occupancy

- Finishes: Floor Exits - Class II

Chapter 38 New Business Occupancy

- Finishes: Floors: Exits - Class I or II

NEW EDUCATION: Chapt 14 - Education Center

- Travel Distance 200 feet, sprinkled 14.2.6.3
- Rescue window not required, automatic sprinkler system and door directly to exterior
- Storage walls smoke partitions
- Warming Kitchen - residential type cooking equipment protection not required

NEW BUSINESS: Chapt 38 - Education Center

- Travel Distance 300 feet, sprinkled
- Vertical openings / stairway unenclosed
- Corridor unseparated by fire barriers, automatic sprinkler system

ENERGY CONSERVATION CODE:

CLIMATE ZONE: Chapt 3
Zone 5, Providence County

COMMERCIAL ENERGY EFFICIENCY: Chapt 4

Low slope roof SRI = 82

Roof R-value = 25ci or 38 in attic

Walls R-value = 20 plus 3.8ci

Walls below grade R-value = 7.5ci

Floors R-value = 30

Slab on Grade R-value = 10 for 24" below

Window fixed/operable R-value = 2.63 / 2.22

Entrance door R-value = 1.3

Skylights R-value = 1.33 auto light controls

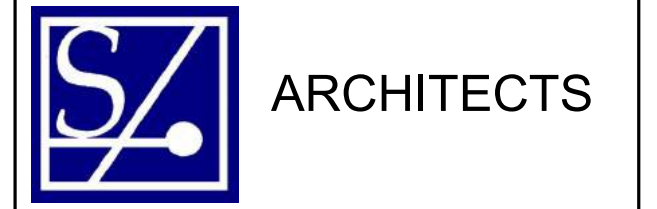
SHGC windows, doors = 0.40

SHGC skylights = 0.75 auto light controls

Education Center: lower level vestibules not required C402.4.7 (4)

PLUMBING FIXTURES: TABLE 2902.1 (Pre-School: Rhode Island Regulations School Age Programs: 214-RICR-40-00-1)

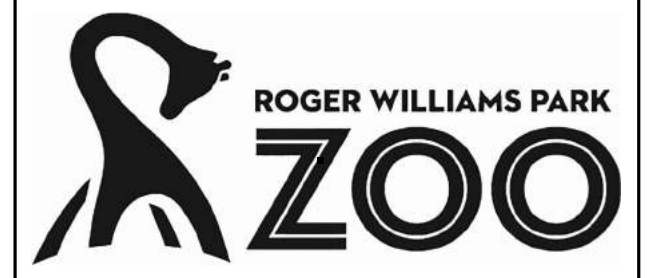
	Education Center Lower Level		Education Center Upper Level	
	Required	Proposed	Required	Proposed
• Water Closet (Male)	5 (M+F)	10 (M+F)	2 (M+F)	2 (M+F)
• Water Closet (Female)				
• Lavatories (Male)	5 (M+F)	10 (M+F)	2 (M+F)	2 (M+F)
• Lavatories (Female)				
• Drinking Fountains	2	2 (standing + wheelchair)	1	1 (standing + wheelchair)



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Revision Schedule

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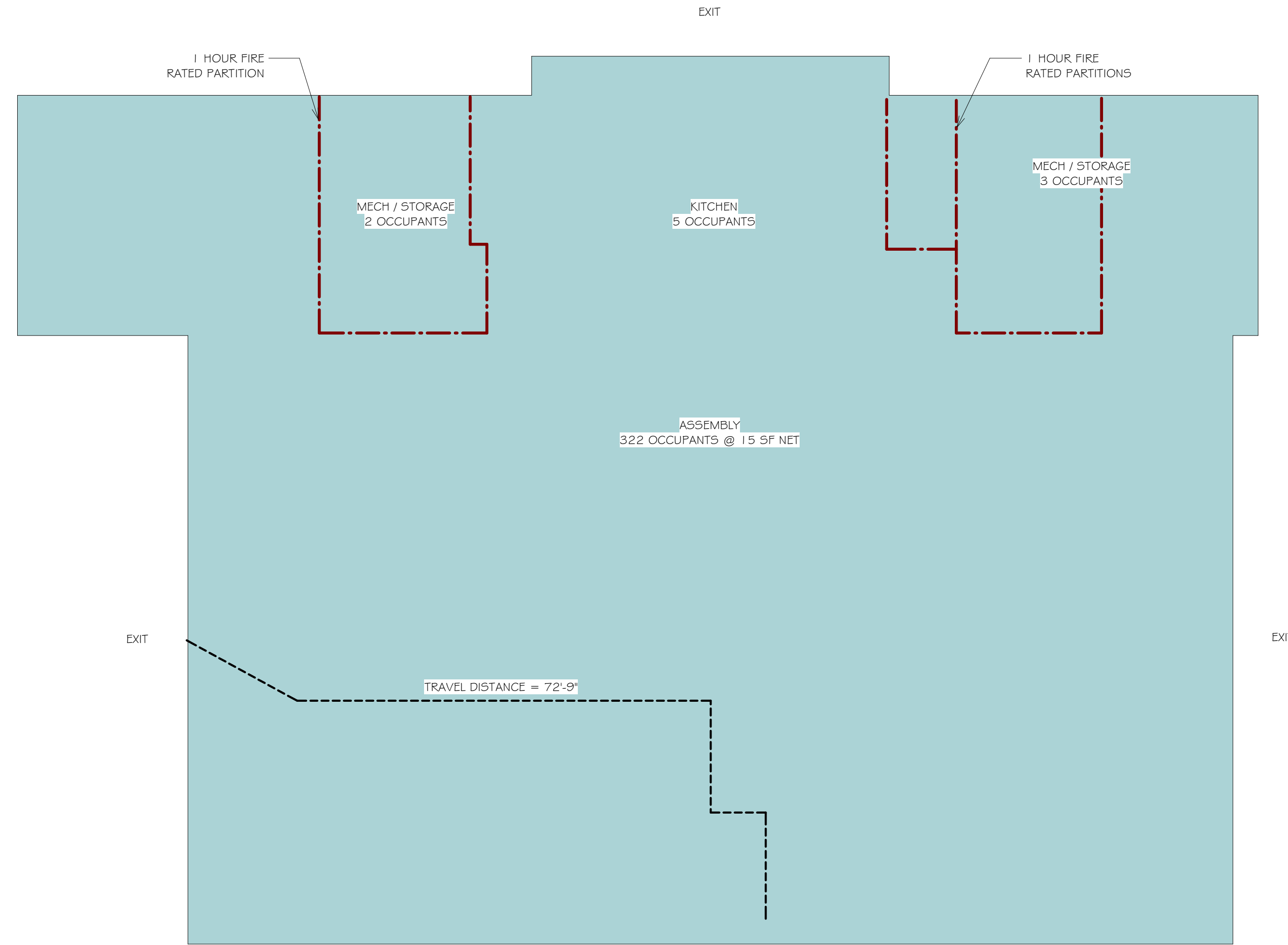
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SHEET TITLE
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DRAWN BY: KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

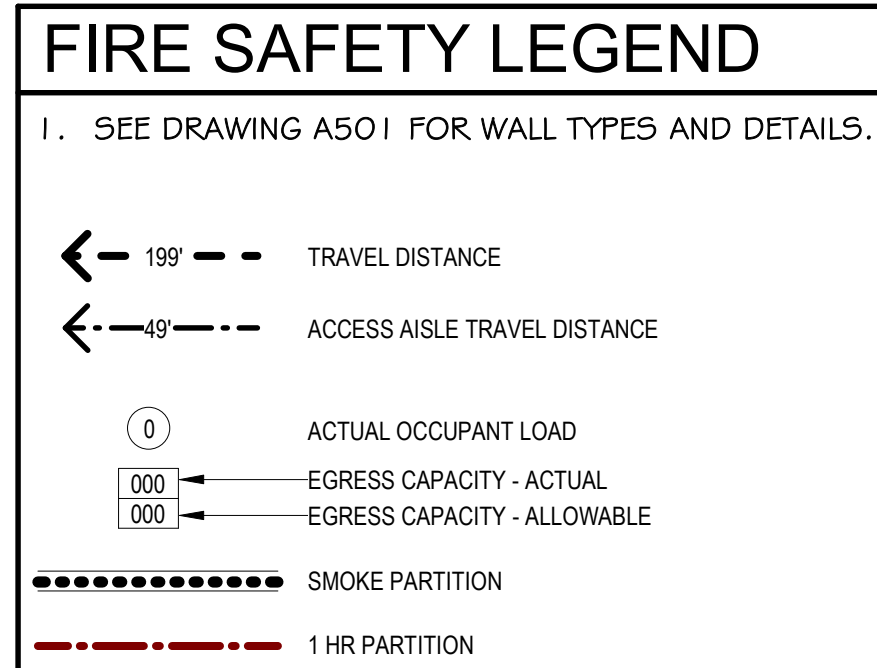
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G1.1
1/8" = 1'-0"

FLOOR PLAN



PROJECT DESCRIPTION

Education Center: 2-story 13,469 square feet including: office area, two Pre-k classrooms, three classrooms, and storage spaces all protected by automated sprinkler system. Event Pavilion: 7,000 square feet including: event space, kitchen, toilet rooms and storage. Ambassador Animal Building: 2-story 4,300 square feet including: Animal living spaces, storage and office space. Demolition of an existing 2,600 square foot green house. Modifications to the existing zoo parking and zoo walking paths.

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- Rhode Island Elevator Safety Code: 260-RICR-30-10-1
- U.S. Department of Agriculture "Animal Welfare Act and Animal Welfare Regulations" 2017

BUILDING CODE:

SECTION 3 - USE AND OCCUPANCY CLASSIFICATIONS

- Event Pavilion: Assembly A-2 (303.3)

SECTION 503 - ALLOWABLE HEIGHT / STORIES / AREAS

	Allowable	Actual
• Event Pavilion: 5-B	60 feet height 2 stories	30 feet height 1 stories 7,575 sf

SECTION 602 - CONSTRUCTION CLASSIFICATION

- Construction Type = Type VB

TABLE 601 - FIRE RESISTANCE RATING BUILDING ELEMENTS 5-B

	Event Pavilion
• Structural Frame	0 hr
• Exterior Bearing Walls	0 hr
• Interior Bearing Walls	0 hr
• Nonbearing exterior walls	0 hr
• Nonbearing interior walls	0 hr
• Floor Construction	0 hr
• Roof Construction	0 hr

TABLE 803.9 - INTERIOR WALL AND CEILING FINISH

EXIT CORRIDOR ROOMS

Event Pavilion:

- A-2: B B C

SECTION 804.4.2 - FLOOR FINISH

EXIT & CORRIDOR

Event Pavilion:

- A-2 Class II

TABLE 1004.1.2 - OCCUPANT LOAD

Event Pavilion: A-2 non-fixed seating/ Kitchen/ Mech-Stor

- A-2: 322 occupants/ K: 5 occupants/ M: 5 occupants = 332 occupants

TABLE 1005.3.2 - EGRESS SIZE

	Required	Provided
• Event Pavilion:	67 inches	171 inches

TABLE 1016.2 - TRAVEL DISTANCE TO AN EXIT

Event Pavilion: Max 200 feet

SECTION 11 - ACCESSIBILITY

- Event Pavilion: building shall comply with accessibility requirements

FIRE CODE

CLASSIFICATIONS OF OCCUPANCY: Chapt 12

- Event Pavilion: New Assembly

FINISHES: WALLS & CEILINGS:

Chapter 12 New Assembly Occupancy

- Finishes: Wall & Ceilings Exits - Class A or B, other Class A or B or C

FINISHES: FLOORS:

Chapter 14 New Assembly Occupancy

- Finishes: Floor Exits - Class II

NEW ASSEMBLY A-2: Chapt 12 - Pavilion

- Construction Type V-000, sprinklered - Table 12.1.6
- Table Storage: low combustibility materials, rated walls not required 12.3.2.1.1

ENERGY CONSERVATION CODE:

CLIMATE ZONE: Chapt 3

Zone 5, Providence County

COMMERCIAL ENERGY EFFICIENCY: Chapt 4

Low slope roof SRI =	82
Roof R-value =	25ci or 38 in attic
Walls R-value =	20 plus 3.8ci
Walls below grade R-value =	7.5ci
Floors R-value =	30
Slab on Grade R-value =	10 for 24" below
Window fixed/operable R-value =	2.63 / 2.22
Entrance door R-value =	1.3
Skylights R-value =	1.33 auto light controls
SHGC windows, doors =	0.40
SHGC skylights =	0.75 auto light controls

PLUMBING FIXTURES: TABLE 2902.1

	Event Pavilion	Required	Proposed
• Water Closet (Male)	3	4	
• Water Closet (Female)	3	4	
• Lavatories (Male)	1	3	
• Lavatories (Female)	1	3	
• Drinking Fountains	1	1	

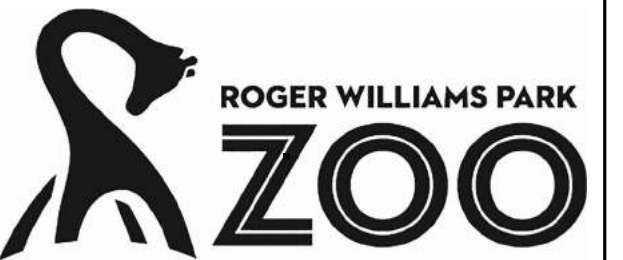


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02910

Consultant

Education Center & Pavilion



1000 ELMWOOD AVENUE,
PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

ISSUED FOR BID
April 18, 2024

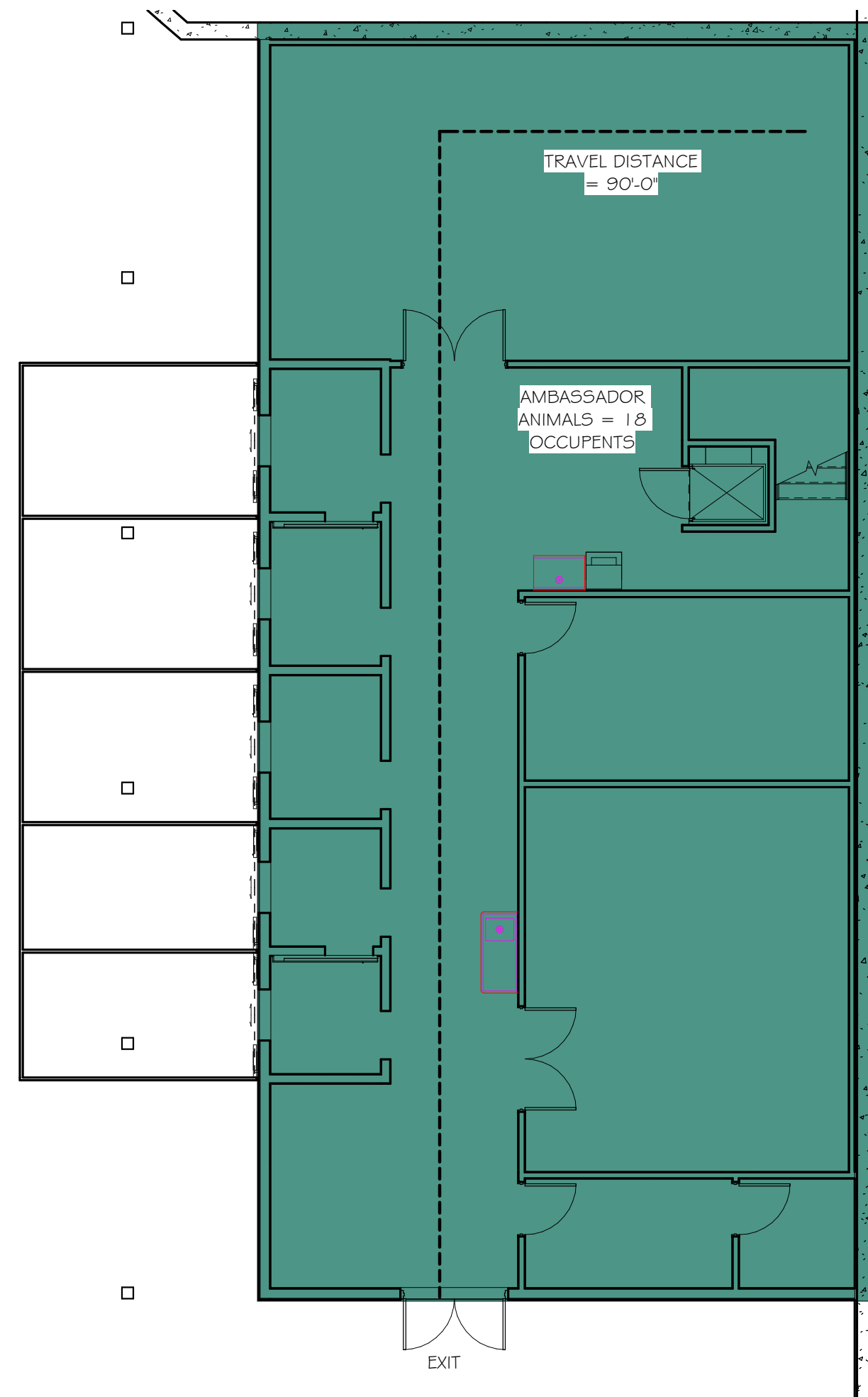
SHEET TITLE
EVENT PAVILION
CODE PLAN

DRAWN BY: KR JOB NUMBER: 18050

CHECKED BY: MS DATE: 05/01/2024

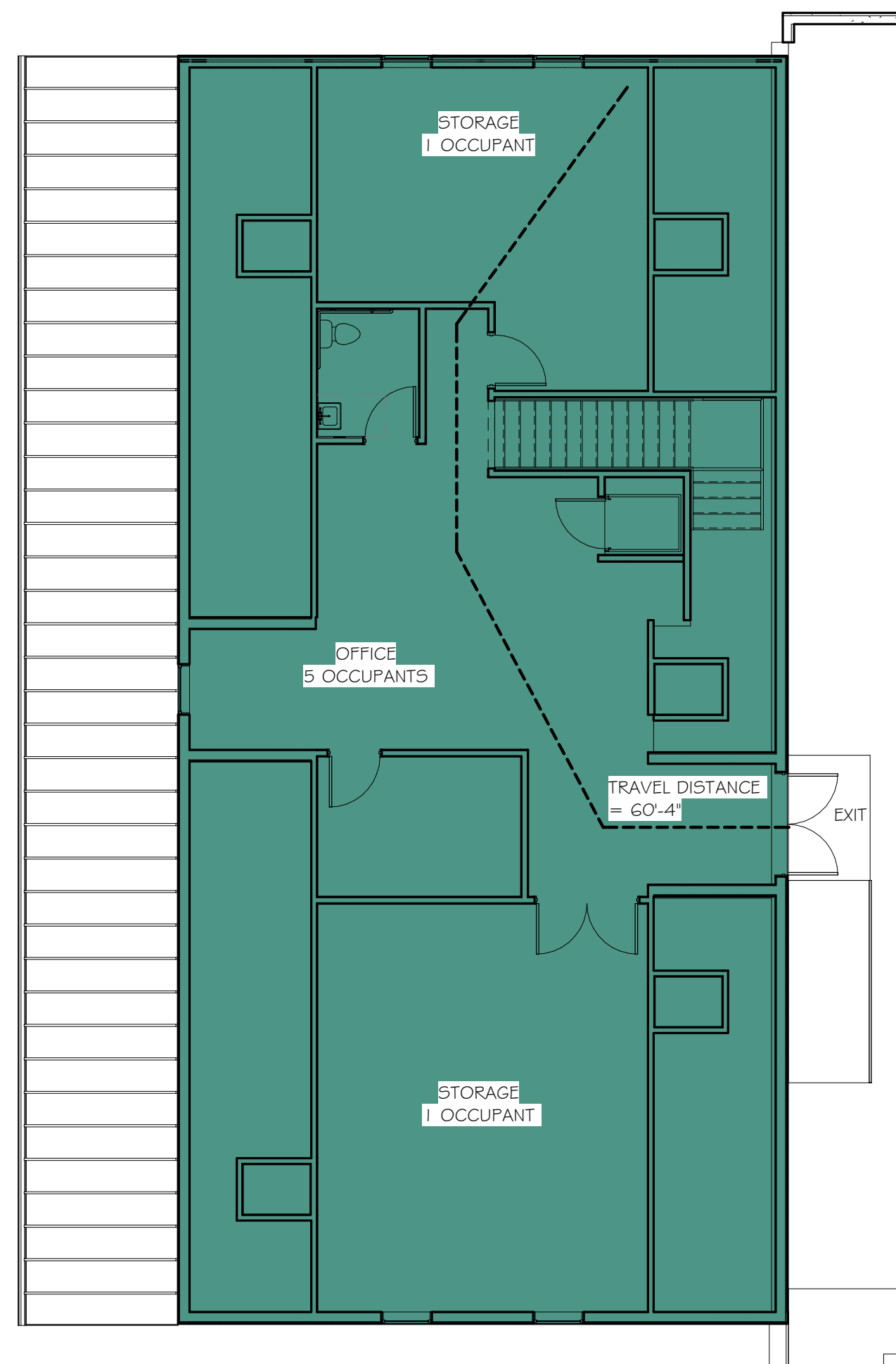
G1.1

SHEET: OF:



2
G1.2
1/8" = 1'-0"

LOWER LEVEL CODE PLAN



3
G1.2
1/8" = 1'-0"

UPPER LEVEL CODE PLAN

PROJECT DESCRIPTION

Education Center: 2-story 13,469 square feet including: office area, two Pre-k classrooms, three classrooms, and storage spaces all protected by automated sprinkler system. Event Pavilion: 7,000 square feet including: event space, kitchen, toilet rooms and storage. Ambassador Animal Building: 2-story 4,300 square feet including: Animal living spaces, storage and office space. Demolition of an existing 2,600 square foot green house. Modifications to the existing zoo parking and zoo walking paths.

CODE INFORMATION

CODE LIST:

- International Building Code, 2018 Edition, with Rhode Island Amendments SBC-1, 2021
- International Plumbing Code, 2018 Edition, with Rhode Island Amendments SBC-3, 2021
- International Mechanical Code, 2018 Edition, with Rhode Island Amendments SBC-4, 2021
- International Electric Code, 2018 Edition, with Rhode Island Amendments SBC-5, 2021
- International Energy Conservation Code, 2018 Edition, with Rhode Island Amendments SBC-8, 2021
- ICC/ANSI A117.1 - 2008, Accessible and Usable Buildings and Facilities
- NFPA-1 Fire Code, 2018 Edition, with Rhode Island Fire Code
- NFPA-101 Life Safety Code, 2018 Edition, with Rhode Island Fire Safety Code
- NFPA-150 Fire and Life Safety in Animal Housing Facilities Code, 2018 Edition
- Rhode Island Regulations School Age Programs: 214-RICR-40-00-1
- Rhode Island Food Code: 216-RICR-50-10-1
- Rhode Island Regulations Governing Animal Care Facilities: 250-RICR-40-05-4
- Rhode Island Elevator Safety Code: 260-RICR-30-10-1
- U.S. Department of Agriculture "Animal Welfare Act and Animal Welfare Regulations" 2017

BUILDING CODE:

SECTION 3 - USE AND OCCUPANCY CLASSIFICATIONS
 • Ambassador Animal Building: Business B (303.3)

SECTION 503 - ALLOWABLE HEIGHT / STORIES / AREAS
 • Ambassador Animal: 5-B 60 feet height 30 feet height
 2 stories 2 stories
 24,000 sf 4,300 sf

SECTION 602 - CONSTRUCTION CLASSIFICATION
 • Construction Type = Type VB

TABLE 601 - FIRE RESISTANCE RATING BUILDING ELEMENTS 5-B
 Event Pavilion

• Structural Frame	0 hr
• Exterior Bearing Walls	0 hr
• Interior Bearing Walls	0 hr
• Nonbearing exterior walls	0 hr
• Nonbearing interior walls	0 hr
• Floor Construction	0 hr
• Roof Construction	0 hr

TABLE 803.9 - INTERIOR WALL AND CEILING FINISH
 EXIT CORRIDOR ROOMS

Animal Bldg:
 • B: B B C

SECTION 804.4.2 - FLOOR FINISH
 EXIT & CORRIDOR

Animal Bldg:
 • B Class II

TABLE 1004.1.2 - OCCUPANT LOAD
 Animal Bldg: B - Business
 • B: 25 occupants

TABLE 1005.3.2 - EGRESS SIZE

	Required	Provided
• Animal Bldg:	5 inches	138 inches

TABLE 1016.2 - TRAVEL DISTANCE TO AN EXIT
 Animal Bldg: Max 200 feet

FIRE CODE

CLASSIFICATIONS OF OCCUPANCY: Chapt 38
 • Animal Bldg: New Business

FINISHES: WALLS & CEILINGS:
 Chapter 38 New Business Occupancy
 • Finishes: Wall & Ceilings Exits - Class A or B

FINISHES: FLOORS:
 Chapter 38 New Business Occupancy
 • Finishes: Floor Exits - Class I or II

NEW BUSINESS: Chapt 38 - AMBASSADOR ANIMAL
 • Construction Type V-000, sprinklered - Table 12.1.6
 • Material Storage: low combustibility materials, rated walls not required 12.3.2.1.1

FIRE SAFETY LEGEND

1. SEE DRAWING A501 FOR WALL TYPES AND DETAILS.

- ← 199' --- TRAVEL DISTANCE
- ← 49' --- ACCESS AISLE TRAVEL DISTANCE
- ACTUAL OCCUPANT LOAD
- EGRESS CAPACITY - ACTUAL
- EGRESS CAPACITY - ALLOWABLE
- SMOKE PARTITION
- 1 HR PARTITION

ENERGY CONSERVATION CODE:

CLIMATE ZONE: Chapt 3
 Zone 5, Providence County

COMMERCIAL ENERGY EFFICIENCY: Chapt 4

Low slope roof SRI =	82
Roof R-value =	25ci or 38 in attic
Walls R-value =	20 plus 3.8ci
Walls below grade R-value =	7.5ci
Floors R-value =	30
Slab on Grade R-value =	10 for 24" below
Window fixed/operable R-value =	2.63 / 2.22
Entrance door R-value =	1.3
Skylights R-value =	1.33 auto light controls
SHGC windows, doors =	0.40
SHGC skylights =	0.75 auto light controls



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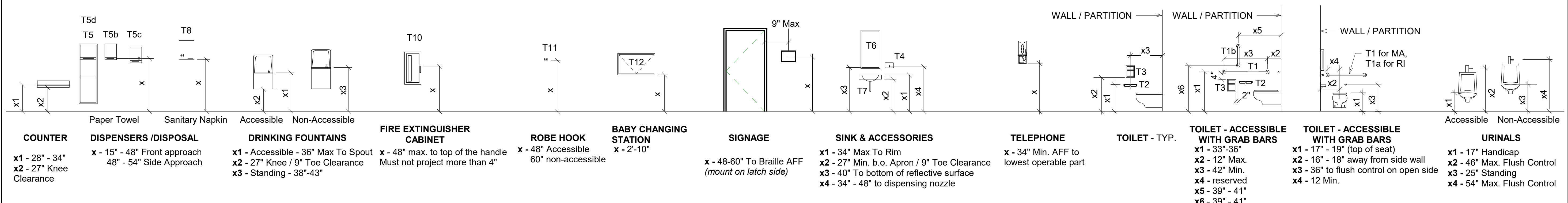
SHEET TITLE
AMBASSADOR ANIMAL BUILDING CODE PLAN

DRAWN BY: KR JOB NUMBER: 18050

CHECKED BY: MS DATE: 05/01/2024

G1.2

SHEET: OF:

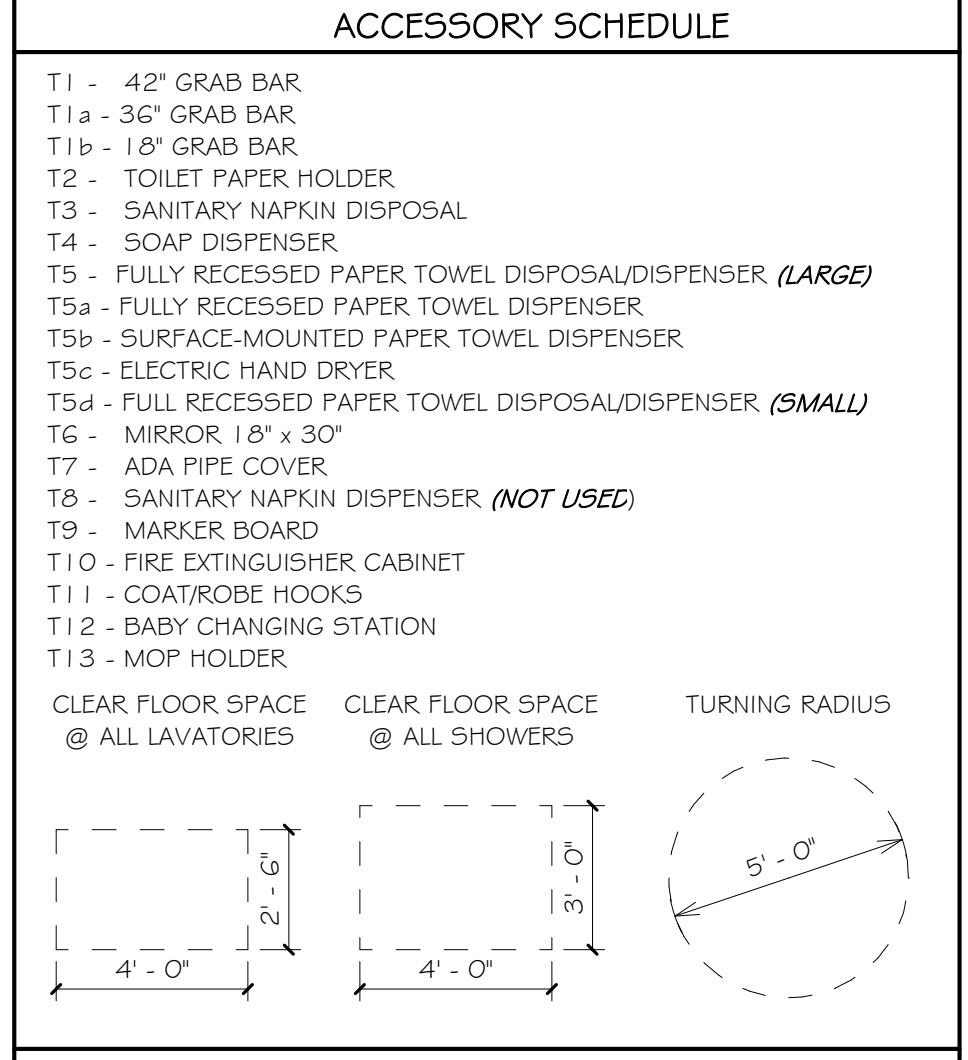


TYPICAL ADULT MOUNTING HEIGHTS

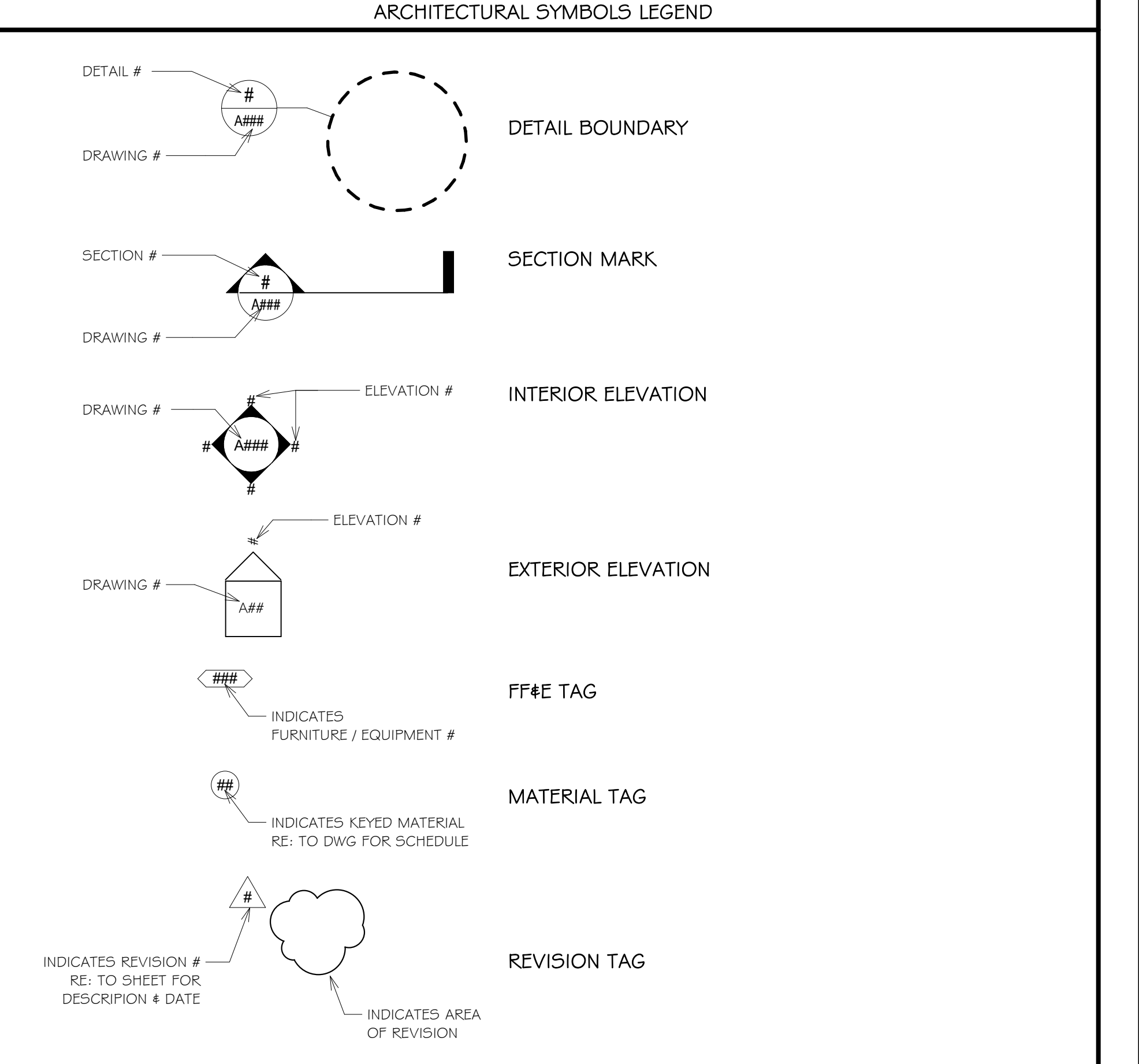
SCALE: 1/4" = 10"

Typical - ADA & Non-ADA Mounting Heights For Children

	Toddler Ages 1-2	Pre-Kindergarten Ages 3-5	Grades K - 3 Ages 5-8	Grades 4-6 Ages 9-11
Controls or Operating Mechanisms:	x - 20"-28"	x - 20"-36"	20"-36"	20"-36"
Counters:	x1 - 18"-26" (non ADA) x1 - 26"-30" x2 - 24" Knee Clearance	x1 - 18"-30" (non ADA) x1 - 26"-30" x2 - 24" Knee Clearance	23"-30" (non ADA) 26"-30" 24" Knee Clearance	26"-30" (non ADA) 26"-30" 24" Knee Clearance
Drinking Fountains:	x1 - 18"-26" (non ADA) x1 - 30" Max. To Spout x2 - 27" Knee Clearance 9" Toe Clearance	x1 - 30" Max. To Spout x1 - 18"-30" (non ADA) x2 - 27" Knee Clearance 9" Toe Clearance	30" Max. To Spout 23"-30" (non ADA) 27" Knee Clearance 9" Toe Clearance	30" Max. To Spout 26"-30" (non ADA) 27" Knee Clearance 9" Toe Clearance
Grab Bars: (top of gripping surface)	x1 - 18"-20" (1" Diameter)	x1 - 18"-20" (1" Diameter)	20"-25" (1 1/4" - 1 1/2" Diameter)	25"-27" (1 1/4" - 1 1/2" Diameter)
Lavatories:	x1 - 18" Recommended (non ADA) x1 - 30" Max to Rim x2 - 25" min b.o. apron 24" Min. Knee Clearance 12" Toe Clearance	x1 - 18"-30" (non ADA) x1 - 30" Max to Rim x2 - 25" Min. b.o. Apron 24" Min. Knee Clearance 12" Toe Clearance	23"-30" (non ADA) 30" Max to Rim 25" Min. b.o. Apron 24" Min. Knee Clearance 12" Toe Clearance	26"-30" (non ADA) 30" Max to Rim 25" Min. b.o. Apron 24" Min. Knee Clearance 12" Toe Clearance
Mirrors: (to bottom of reflective surface) recommendation: 2"-4" above lavatory Hooks:	x3 - 34" Max. To Bottom Edge x - 28"	x3 - 34" Max. To Bottom Edge x - 36"	34" Max. To Bottom Edge 36"	34" Max. To Bottom Edge 36"
Seating:	x1 - 6"-10"	x1 - 8"-12"	12"-17"	12"-17"
Signage: (mount on latch side)	x - 60" On Center	x - 60" On Center	60" On Center	60" On Center
Soap Dispensers: (to dispensing nozzle) recommendation: lavatory height or higher Toilet Paper Dispensers:	x4 - 15"-28" (ADA & non ADA) x1 - 14"	x4 - 15"-48" (ADA & non ADA) x1 - 14"	15"-48" (ADA & non ADA) 14"-17"	15"-48" (ADA & non ADA) 17"-19"
Urinals:	n/a	R3 - 14" R4 - 30" Flush Control	14" 30" Flush Control	14" 30" Flush Control
Water Closets: (top of seat) (wall to centerline)	x1 - 12" x2 - 11" Away From Side Wall	x1 - 12" x2 - 11" Away From Side Wall	12"-15" 11"-15" Away From Side Wall	15"-17" 15"-18" Away From Side Wall



NOTE:
PROVIDE REQUIRED FIRE-RETARDANT WOOD BLOCKING WITHIN WALLS, FLOORS AND CEILINGS FOR PROPER INSTALLATION OF ALL WALL, FLOOR AND CEILING MOUNTED MARKER BOARDS, TELEVISIONS/MONITORS, PROJECTOR SCREENS, WALL CABINETS, RESTROOM AND KITCHEN ACCESSORIES AND CASEWORK, TRIM SUCH AS CHAIR RAILS/CROWN MOLDING/BASE/ETC., ELECTRONIC AND OTHER EQUIPMENT. ALSO SEE SPECIFICATIONS FOR OTHER BLOCKING REQUIREMENTS.



GENERAL NOTES:

THE CONTRACTOR SHALL:

- UNDERSTAND THAT THE TERM "PROVIDE" AS LISTED ON THE ARCHITECTURAL DRAWINGS SHALL MEAN "FURNISH AND INSTALL".
- UNDERSTAND THAT UNLESS SPECIFICALLY NOTED AS "PROVIDED BY OTHERS" OR "PROVIDED BY OWNER", ALL WORK IN THESE CONTRACT DOCUMENTS IS TO BE PERFORMED BY THE GENERAL CONTRACTOR AND/OR THEIR SUB CONTRACTORS.
- VISIT THE JOB SITE AND FAMILIARIZE HIMSELF COMPLETELY WITH ALL EXISTING CONDITIONS RELATIVE TO THE NEW WORK CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS. NO COMPENSATION FOR EXTRA WORK ON BEHALF OF THE CONTRACTOR WILL BE CONSIDERED THAT WOULD HAVE BEEN DETERMINED BY VISUAL OBSERVATION PRIOR TO BIDDING.
- UNDERSTAND THAT THE TERM "MATCH EXISTING" AS LISTED ON THESE DRAWINGS SHALL MEAN THAT ALL WORK TO BE PERFORMED MUST BE OF SIMILAR MATERIALS, CONSTRUCTION AND FINISHED TO THE LINES OF ADJACENT WORK IN ALL RESPECTS.
- BE RESPONSIBLE FOR ALL CUTTING, FILLING, PATCHING AND/OR REPAIRING OF EXISTING WALLS, FLOORS AND CEILINGS AS REQUIRED FOR THE INSTALLATION OF ALL NEW MECHANICAL, ELECTRICAL AND PLUMBING WORK IN THE EXISTING BUILDING. (VERIFY ALL CONDITIONS AT THE SITE).
- PATCH AND REPAIR ALL WALLS, FLOORS, AND CEILINGS IN ALL AREAS AFFECTED BY DEMOLITION WORK. ALL WORK TO BE PERFORMED MUST BE OF SIMILAR MATERIALS, CONSTRUCTION AND FINISHED TO THE LINES OF ADJACENT WORK IN ALL RESPECTS.
- COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING WORK WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE NEW WORK IN ALL AREAS.
- PROVIDE DUST PARTITIONS AS REQUIRED TO KEEP AREAS OUTSIDE OF SCOPE FREE OF DIRT AND DUST. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ANY AREAS LEFT UNPROTECTED.
- BE RESPONSIBLE TO CLEAN THE WORK AREA AT THE END OF EACH WORK DAY. ALL TRASH AND DEBRIS TO BE REMOVED FROM THE BUILDING.
- SUBMIT M.E.P. COORDINATION DRAWINGS TO THE ARCHITECT FOR REVIEW OF LOCATIONS OF ALL SYSTEMS TO AVOID CONFLICTS AND COORDINATE LOCATIONS OF ALL DEVICES AND LIGHTING.
- PROVIDE REQUIRED FIRE-RETARDANT WOOD BLOCKING WITHIN WALLS, FLOORS AND CEILINGS FOR PROPER INSTALLATION OF ALL WALL, FLOOR AND CEILING MOUNTED MARKER BOARDS, TELEVISIONS/MONITORS, PROJECTOR SCREENS, WALL CABINETS, RESTROOM AND KITCHEN ACCESSORIES AND CASEWORK, TRIM SUCH AS CHAIR RAILS/CROWN MOLDING/BASE/CASINGS/ETC., ELECTRONIC AND OTHER EQUIPMENT. ALSO SEE SPECIFICATIONS FOR OTHER BLOCKING REQUIREMENTS.

ARCHITECTURAL ABBREVIATION LEGEND

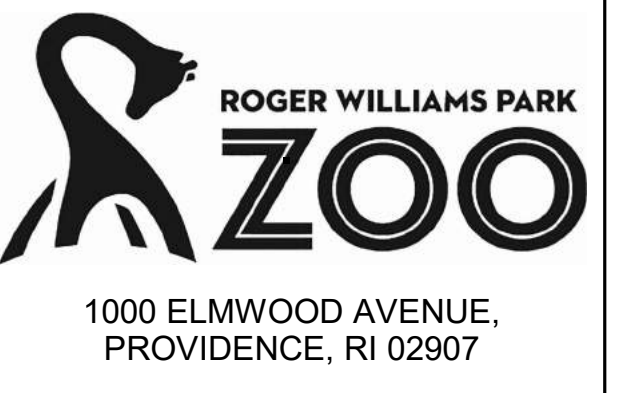
- = NO WORK NEEDED
ACT = ACOUSTICAL CEILING TILE
ACCT = ACOUSTICAL CEILING TILE-REGULAR
AFF = ABOVE FINISH FLOOR
ALUM = ALUMINUM
CBB = CEMENTITIOUS BACKER BOARD
CJ = CONTROL JOINT
CLR = CLEAR
CMU = CONCRETE MASONRY UNIT(S)
CO = CLEAN OUT
CONC = CONCRETE
CONST = CONSTRUCTION
CORR = CORRIDOR
CT = CERAMIC TILE
CPT = CARPET
CPTT = CARPET TILE
DEMO = DEMOLISH/DEMOLITION
DIA = DIAMETER
DIM = DIMENSION
DN = DOWN
DWG = DRAWING
DWP = DURABLE WALL PROTECTION
ECT = ENTRANCE CARPET TILE
EJ = EXPANSION JOINT
ELEC = ELECTRICAL/ELECTRICAL
EPX = EPOXY
EQ = EQUAL
ETR = EXISTING TO REMAIN
EXT = EXISTING
FD = FLOOR DRAIN
FE = FIRE EXTINGUISHER
FEC = FIRE EXTINGUISHER & CABINET
FF = FINISH FLOOR
FHC = FIRE HOSE CABINET
FIN = FINISH
FLR = FLOOR
FOC = FACE OF CONCRETE
FOS = FACE OF STUD
FR = FIRE RATED
FRP = FIBERGLASS REINFORCED PANEL
FRS = FIRE-RATED SAFETY GLASS
FT = FOOT/FEET
FTG = FOOTING
GA = GAUGE
GALV = GALVANIZED
GB = GRAB BAR
GC = GENERAL CONTRACTOR
GLU LAM = GLUE LAMINATED
GWB = GYPSUM WALL BOARD
GHM = GALVANIZED HOLLOW METAL
HB = HOSE BIBB
HM = HOLLOW METAL
HORIZ = HORIZONTAL
HR = HOUR
HVAC = HEATING/VENTILATING/AIR CONDITIONING
ID = INSIDE DIAMETER
INSUL = INSULATED
INT = INTERIOR
JAN = JANITOR
JT = JOINT
LAM = LAMINATE
LAV = LAVATORY
LWT = LIGHTWEIGHT
MAS = MASONRY
MAT = MATERIAL
MAX = MAXIMUM
MECH = MECHANICAL
MIN = MINIMUM
MISC = MISCELLANEOUS
MFR = MANUFACTURER
MO = MASONRY OPENING
MRT = MOISTURE RESISTANT TILE
NIC = NOT IN CONTRACT
NTS = NOT TO SCALE
OC = ON CENTER
OD = OUTSIDE DIAMETER
OFF = OFFICE
OPNG = OPENING
OPP = OPPOSITE
OTS = OPEN TO STRUCTURE
PLAM = PLASTIC LAMINATE
PT = PAINT or PRESSURE TREATED
PVC = POLYVINYL CHLORIDE
PVC = POLYVINYL CHLORIDE
QT = QUARRY TILE
R = RISER
RAD = RADIUS
RAF = RESILIENT ATHLETIC FLOORING
RO = ROUGH OPENING
SF = SQUARE FOOT/FEET
SAF = STAIN & FINISH
SDT = STATIC DISSIPATING TILE
SEAL = SEALED CONCRETE
SGB = SUSPENDED GYPSUM BOARD
SIM = SIMILAR
SIP = STRUCTURAL INSULATED PANEL
SQ = SQUARE
SS = STAINLESS STEEL
STL = STEEL
STOR = STORAGE
STRUC = STRUCTURAL
SV = SHEET VINYL
SWG = SPECIAL WALL GLAZE
T&G = TONGUE & GROOVE
TEMP = TEMPERED
TOS = TOP OF STEEL
TV = TELEVISION
TOW = TOP OF WALL
TYP = TYPICAL
UNON = UNLESS OTHERWISE NOTED
VAS = VERIFY AT SITE
VB = VINYL BASE
VCT = VINYL COMPOSITION TILE
VERT = VERTICAL
VIF = VERIFY IN FIELD
VT = VINYL TILE
VWC = VINYL WALL COVERING
WJ = WITH
WC = WATER CLOSET
WD = WOOD
WH = WATER HEATER
WO = WITHOUT
WP = WATERPROOF(ING)
WR = WATER RESISTANT
WWM = WELDED WIRE MESH
RD = ROOF DRAIN
REBAR = REINFORCEMENT BAR(S)
REIN = REINFORCEMENT
RH = ROBE HOOK
R = ROOM
RMK = REMARK



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Education Center & Pavilion



Revision Schedule	
Revision Number	Revision Date

ISSUED FOR BID
April 18, 2024

SHEET TITLE

GENERAL MOUNTING HEIGHTS, GENERAL NOTES

DRAWN BY:	KR	JOB NUMBER:	18050
CHECKED BY:	MS	DATE:	05/01/2024

G2.0

SHEET: OF:

GENERAL WALL NOTES

- SEE 'MATERIAL MODIFIERS' FOR REQUIRED MODIFICATIONS TO THE DESIGNATED WALL TYPES.
- ALL FIRE RATED WALL ASSEMBLIES SHALL BE CONTINUOUS FROM THE FLOOR TO THE UNDERSIDE OF THE ROOF OR FLOOR DECK. INSTALL FIRE SAFING, CAULK, ETC. AS REQUIRED AT INTERSECTIONS OF FIRE-RATED WALLS AND ALL STRUCTURAL OR NON-STRUCTURAL ELEMENTS. FILL SPACES BETWEEN DECK FLUTES AND TOP OF WALLS TO ACQUIRE THE CONTINUOUS DESIGNATED FIRE RATING.
- UNLESS NOTED OTHERWISE DIMENSIONS TO MASONRY WALLS ARE TO THE WALL FACE AND DIMENSIONS TO STEEL STUD WALLS ARE TO THE WALL CENTER.
- WALLS THAT ARE NOT SPECIFIED TO GO FULL HEIGHT SHALL TERMINATE A MINIMUM OF 6" ABOVE THE FINISH CEILING HEIGHT WITHIN ROOM AND BE ADEQUATELY BRACED.
- PROVIDE CEMENTITIOUS BACKER BOARD AS BACK UP BEHIND ALL AREAS WHERE CERAMIC TILE OR STONE WALL OR BASE IS SCHEDULED.
- SUBSTITUTE 5/8" MOISTURE RESISTANT GWB IN LIEU OF STANDARD 5/8" GWB AT ALL 'WET' WALLS NOT SCHEDULED TO RECEIVE TILE, INCLUDING BEHIND WATER CLOSETS, URINALS, LAVATORIES, MOP/UTILITY SINKS, ABOVE/AROUND SHOWER ENCLOSURES, ETC.
- ALL EXPOSED CORNERS OF CMU WALLS SHALL HAVE A 1" RADIUS.
- ALL STEEL STUD WALLS THAT CONTINUE TO THE UNDERSIDE OF DECK SHALL HAVE DEFLECTION TRACKS AS REQUIRED.
- ALL WOOD BLOCKING IS TO BE FIRE-RESISTANT.
- ALL WOOD COMING IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- PROVIDE REQUIRED FIRE-RETARDANT WOOD BLOCKING WITHIN WALLS, FLOORS AND CEILINGS FOR PROPER INSTALLATION OF ALL WALL, FLOOR AND CEILING MOUNTED MARKER BOARDS, TELEVISIONS/MONITORS, PROJECTOR SCREENS, WALL CABINETS, RESTROOM AND KITCHEN ACCESSORIES AND CASEWORK, TRIM SUCH AS CHAIR RAILS/CROWN MOLDING/BASE/CASINGS/ETC., ELECTRONIC AND OTHER EQUIPMENT. ALSO SEE SPECIFICATIONS FOR OTHER BLOCKING REQUIREMENTS.
- UNLESS NOTED OTHERWISE PROVIDE CONTROL JOINT TYPES AND SPACING AS SPECIFIED AND ACCORDING TO EACH MATERIAL MANUFACTURER'S RECOMMENDATIONS. LOCATE JOINTS AT DOOR FRAME JAMBS WHERE POSSIBLE.
- ANY WALL NOT HAVING A WALL-TYPE TAG SHALL BE CONSIDERED TO BE AT A MINIMUM 3 5/8" STEEL STUDS @ 16" O.C. WITH 5/8" TYPE X GWB ON EACH SIDE. NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTING ANY UNDESIGNATED WALL.
- ALL WALL SURFACES WITHIN ELECTRIC/DATA/MECHANICAL ROOMS HAVING PANELS/CONTROLS/ETC. INSTALLED ON THEM SHALL HAVE 5/8" FIRE-TREATED PLYWOOD INSTALLED OVER THE STUDS IN LIEU OF SHEETROCK. WHERE A WALL IS CMU THE FIRE TREATED PLYWOOD SHALL BE INSTALLED OVER 7/8" METAL FURRING @ 16" O.C. VERTICALLY.

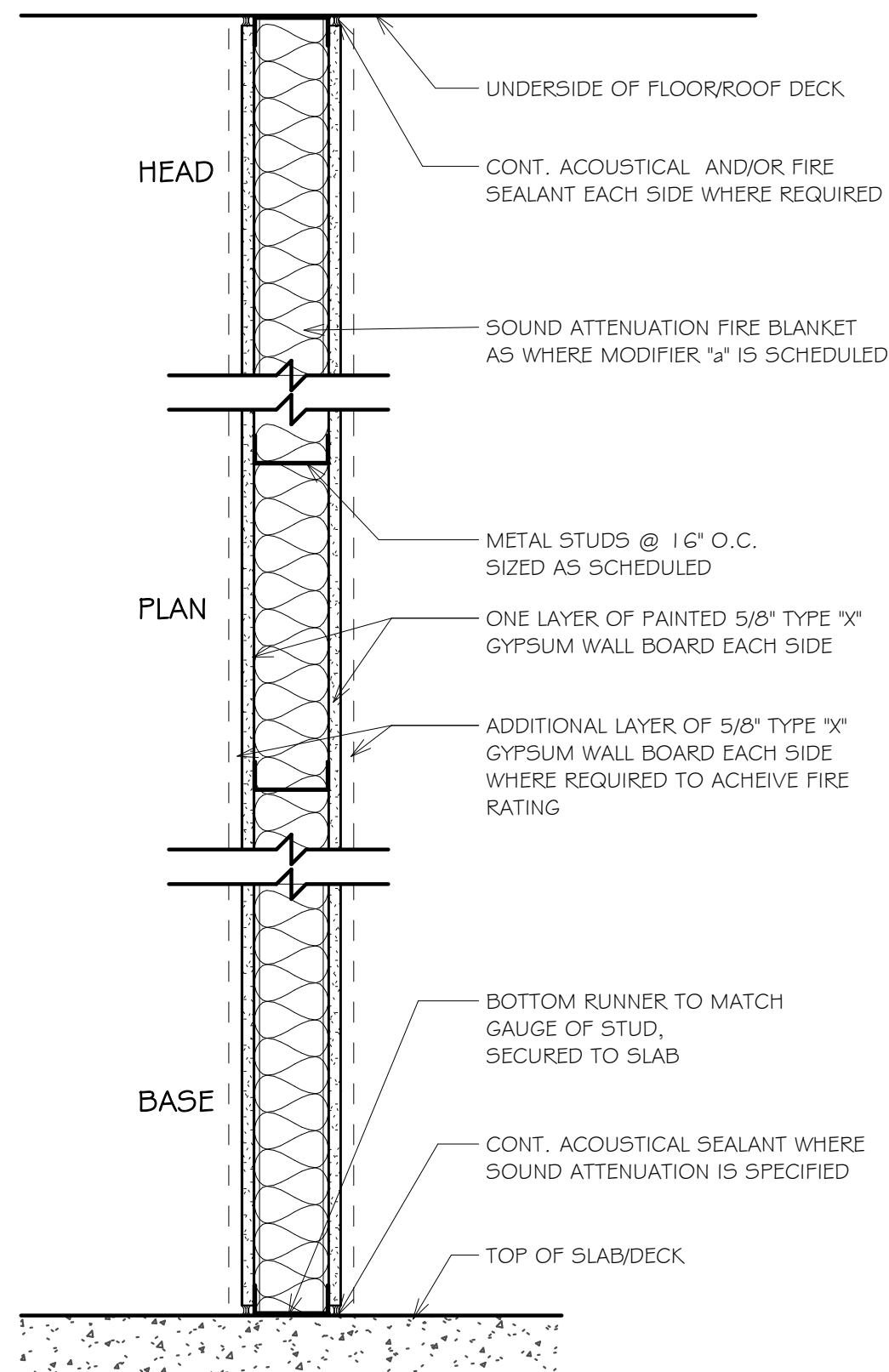
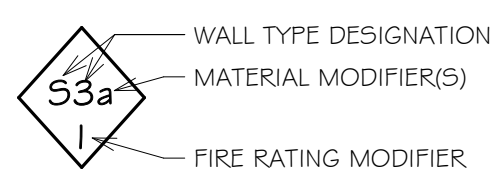
MATERIAL MODIFIERS (also see general wall notes)

- "a" = FILL STUD CAVITY FULL HEIGHT WITH SOUND ATTENUATION BATTING. WALL ASSEMBLIES HAVING THIS MODIFIER SHALL BE CONTINUOUS FROM THE FLOOR TO THE UNDERSIDE OF THE ROOF OR FLOOR DECK ABOVE. PROVIDE CAULKING/SEALANT AS REQUIRED FOR CONTINUOUS MEMBRANE. ELECTRICAL OUTLETS IN ACOUSTICAL WALLS SHALL NOT BE BACK-TO-BACK.
- "b" = OMIT GWB ON ONE SIDE.
- "c" = PROVIDE CEMENTITIOUS BACKER BOARD AS BACK UP BEHIND ALL AREAS WHERE CERAMIC TILE AND/OR STONE WALL BASE IS SCHEDULED.
- "d" = SUBSTITUTE 5/8" MOISTURE RESISTANT GWB IN LIEU OF STANDARD GWB TO MOISTURE PRONE SIDE OF WALLS. ALSO, SEE GENERAL NOTE #4.
- "e" = SUBSTITUTE 5/8" ABUSE RESISTANT GWB (ALSO TO BE FIRE RATED WHERE DESIGNATED AS SUCH) IN LIEU OF STANDARD 5/8" GWB ON BOTH SIDES UNLESS NOTED OTHERWISE.
- "f" = ADD 7/8" METAL FURRING VERTICALLY @ 16" O.C. AND 5/8" GWB TO DESIGNATED SIDE OF WALL. PROVIDE 5/8" FIRE-TREATED PLYWOOD IN LIEU OF THE GWB WITHIN ELECTRIC/DATA/MECH ROOMS WHERE PANELS/CONTROLS/ETC. WILL BE INSTALLED. SEE PLANS FOR DESIGNATION.
- "g" = PARTITION TO BE A SMOKE ENCLOSURE AND SHALL BE COMPLETELY SEALED WITH AN APPROVED SEALANT AT ENTIRE PERIMETER INCLUDING THE INTERSECTIONS OF ALL WALLS, FLOOR/ROOF DECKS, ETC.

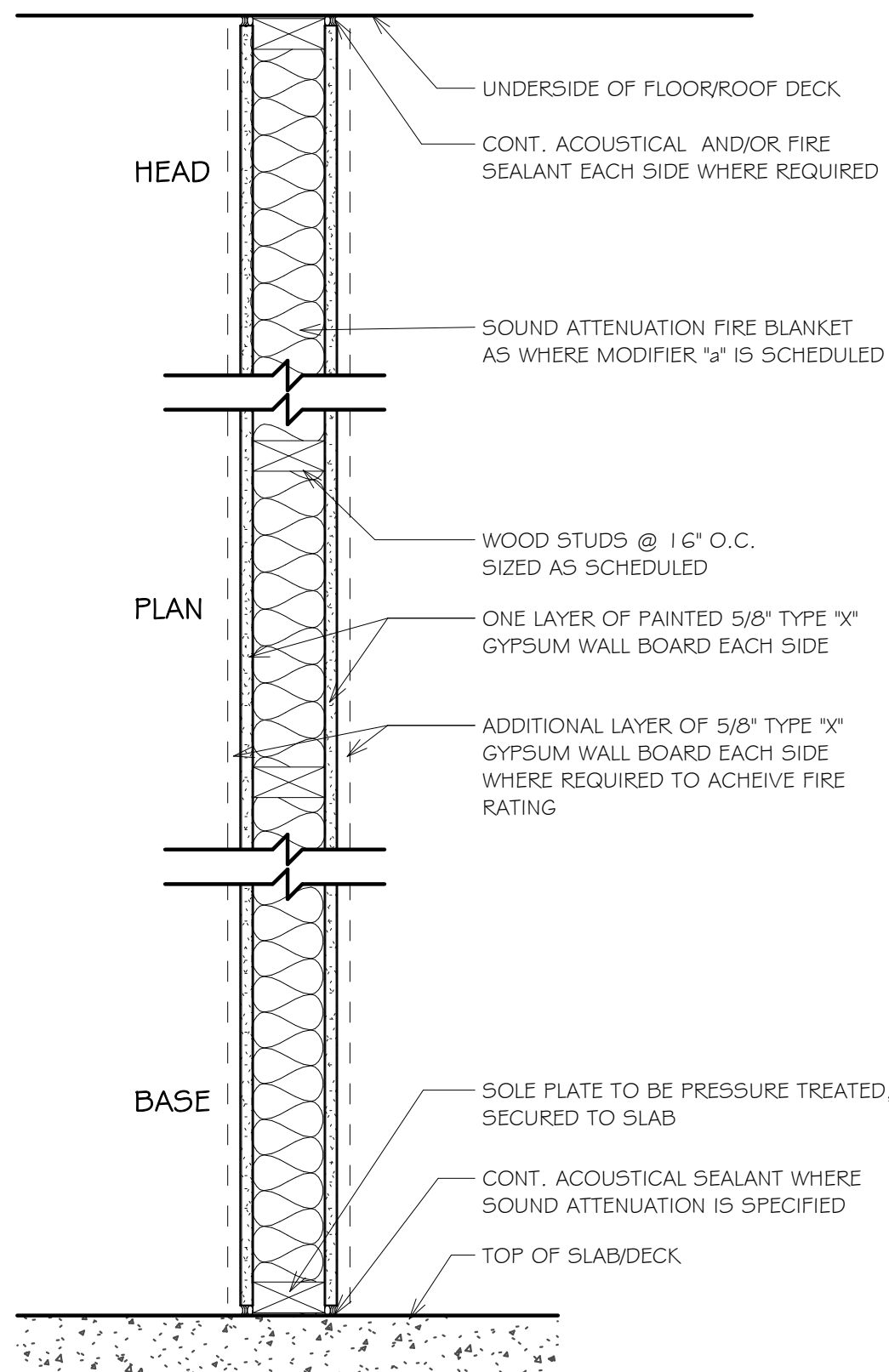
FIRE RATING MODIFIERS (also see general wall notes)

- "1" = WALL TO HAVE A MINIMUM OF ONE HOUR FIRE RATING.
 - UL DESIGN #U425 WHERE STEEL STUDS ARE USED.
 - UL DESIGN #U415 SYSTEM "A" WHERE 2 1/2" C-H SHAPED STEEL STUDS ARE USED.
 - UL DESIGN #U905 WHERE 8" NOMINAL CMU IS USED.
 - UL DESIGN #U906 WHERE 6" NOMINAL CMU IS USED.
- "2" = WALL TO HAVE A MINIMUM OF TWO HOUR FIRE RATING.
 - UL DESIGN #U425 WHERE STEEL STUDS ARE USED.
 - UL DESIGN #U905 WHERE 8" NOMINAL CMU IS USED.
 - UL DESIGN #U906 WHERE 6" NOMINAL CMU IS USED.

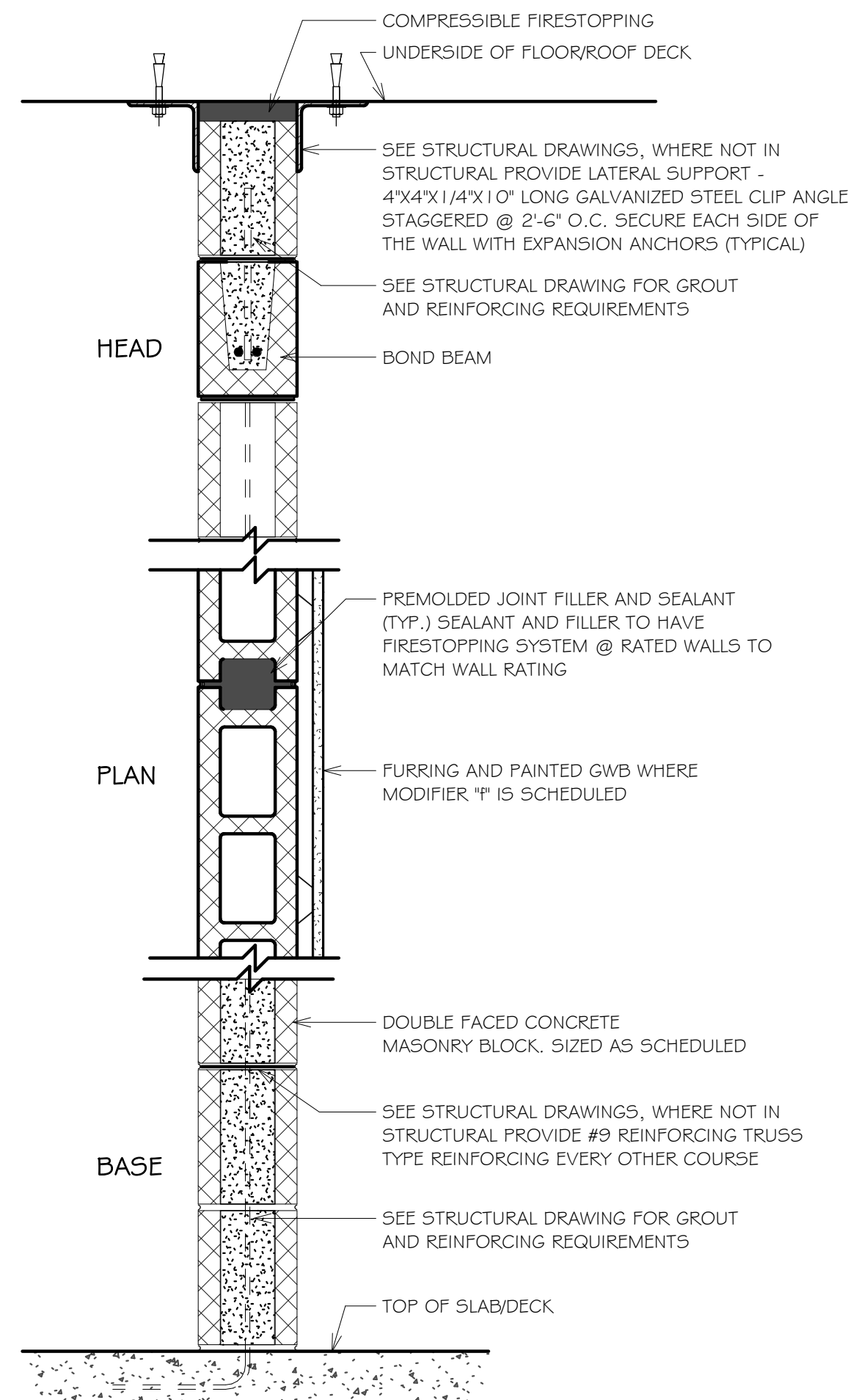
WALL TAG LEGEND



- S2 2 1/2" STEEL STUDS @ 16"oc. 1 LAYER PAINTED 5/8" TYPE "X" GWB EACH SIDE. TOTAL WALL THICKNESS = 3 3/4".
- S3 3 5/8" STEEL STUDS @ 16"oc. 1 LAYER PAINTED 5/8" TYPE "X" GWB EACH SIDE. TOTAL WALL THICKNESS = 4 7/8".
- S4 4" STEEL STUDS @ 16"oc. 1 LAYER PAINTED 5/8" TYPE "X" GWB EACH SIDE. TOTAL WALL THICKNESS = 5 1/4".
- S6 6" STEEL STUDS @ 16"oc. 1 LAYER PAINTED 5/8" TYPE "X" GWB EACH SIDE. TOTAL WALL THICKNESS = 7 1/4".
- S8 8" STEEL STUDS @ 16"oc. 1 LAYER PAINTED 5/8" TYPE "X" GWB EACH SIDE. TOTAL WALL THICKNESS = 9 1/4".
- S10 10" STEEL STUDS @ 16"oc. 1 LAYER PAINTED 5/8" TYPE "X" GWB EACH SIDE. TOTAL WALL THICKNESS = 11 1/4".

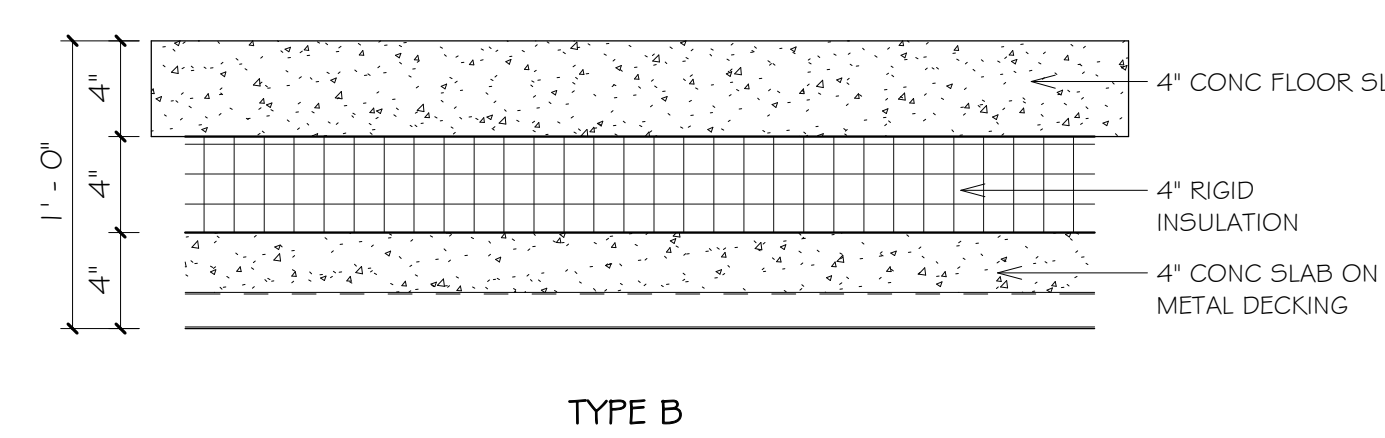
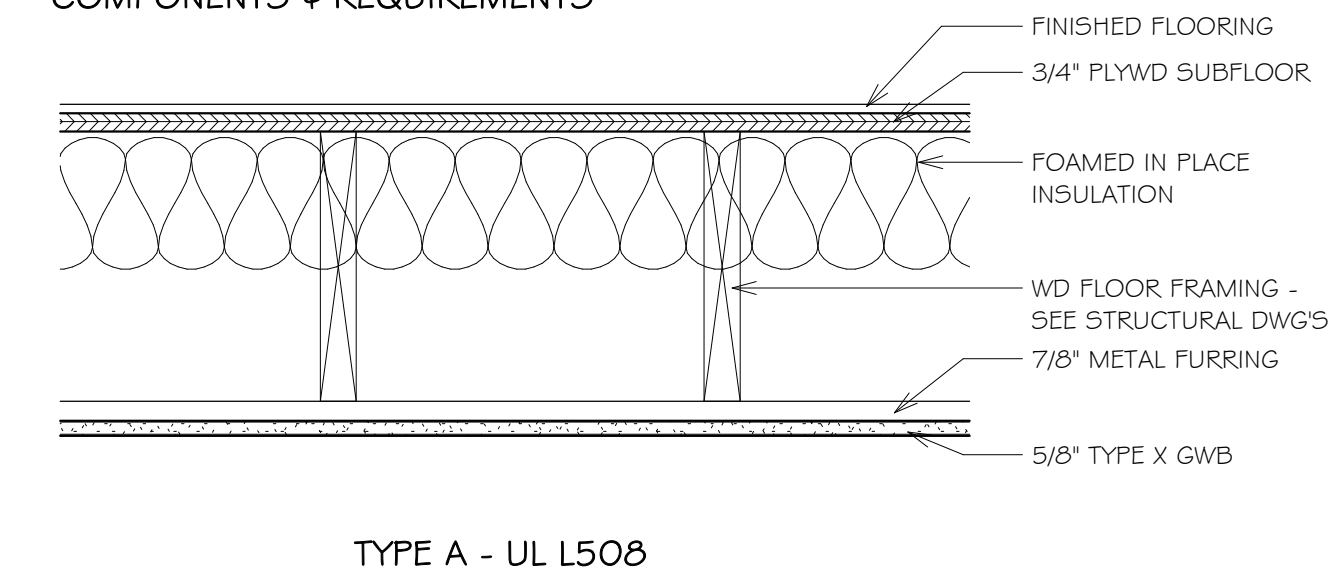


- W3 2x3 NOMINAL WOOD STUDS @ 16"oc. 1 LAYER 5/8" GWB TYPE "X" EACH SIDE. TOTAL WALL THICKNESS = 3 3/4".
- W4 2x4 NOMINAL WOOD STUDS @ 16"oc. 1 LAYER 5/8" GWB TYPE "X" EACH SIDE. TOTAL WALL THICKNESS = 4 3/4".
- W6 2x6 NOMINAL WOOD STUDS @ 16"oc. 1 LAYER 5/8" GWB TYPE "X" EACH SIDE. TOTAL WALL THICKNESS = 6 3/4".
- W8 2x8 NOMINAL WOOD STUDS @ 16"oc. 1 LAYER 5/8" GWB TYPE "X" EACH SIDE. TOTAL WALL THICKNESS = 8 1/2".
- W10 2x10 NOMINAL WOOD STUDS @ 16"oc. 1 LAYER 5/8" GWB TYPE "X" EACH SIDE. TOTAL WALL THICKNESS = 10 1/2".

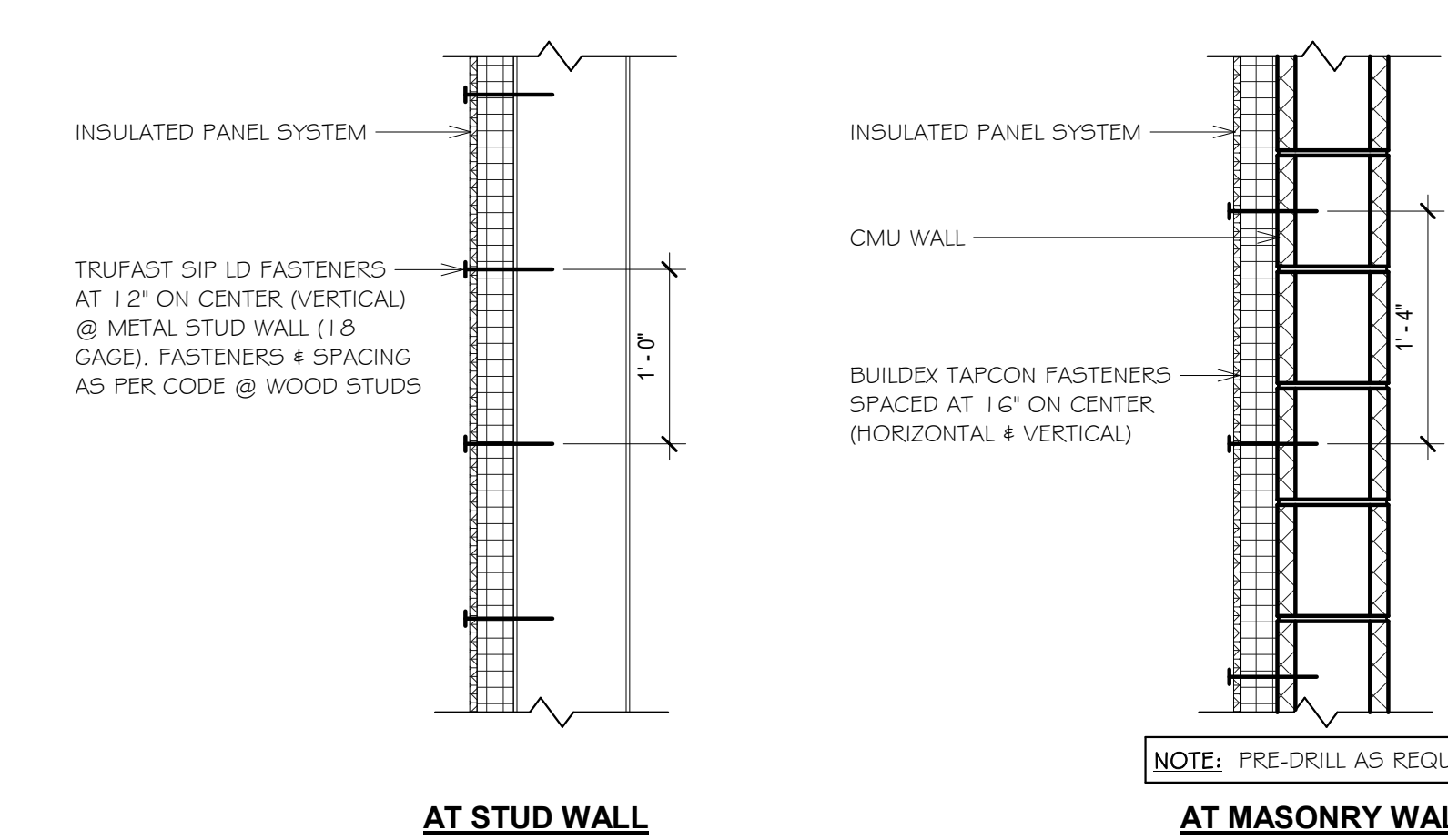


- M4 4" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS.
- M6 6" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS.
- M8 8" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS.
- M10 10" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS.
- M12 12" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS.

**GENERAL NOTE:
- FLOOR ASSEMBLY IS TO MEET ALL UL DESIGN COMPONENTS & REQUIREMENTS**



3 G2.1 1 1/2" = 1'-0" 1 HOUR RATED FLOOR ASSEMBLIES



1 G2.1 1 1/2" = 1'-0" WALL TYPES

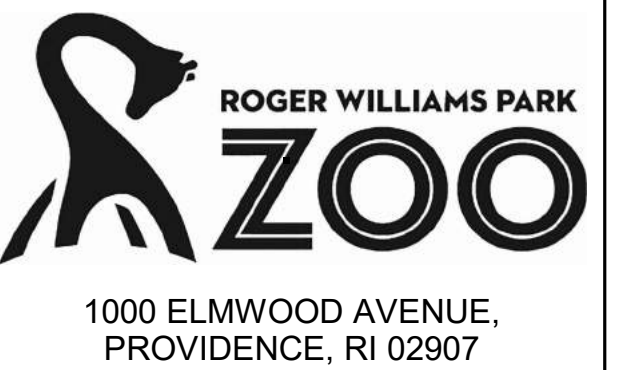
2 G2.1 1" = 1'-0" INSULATED SHEATHING FASTENING DETAILS



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Revision Number	Revision Date

ISSUED FOR BID
April 18, 2024

**SHEET TITLE
WALL TYPES**

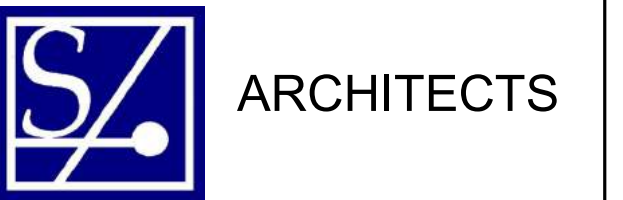
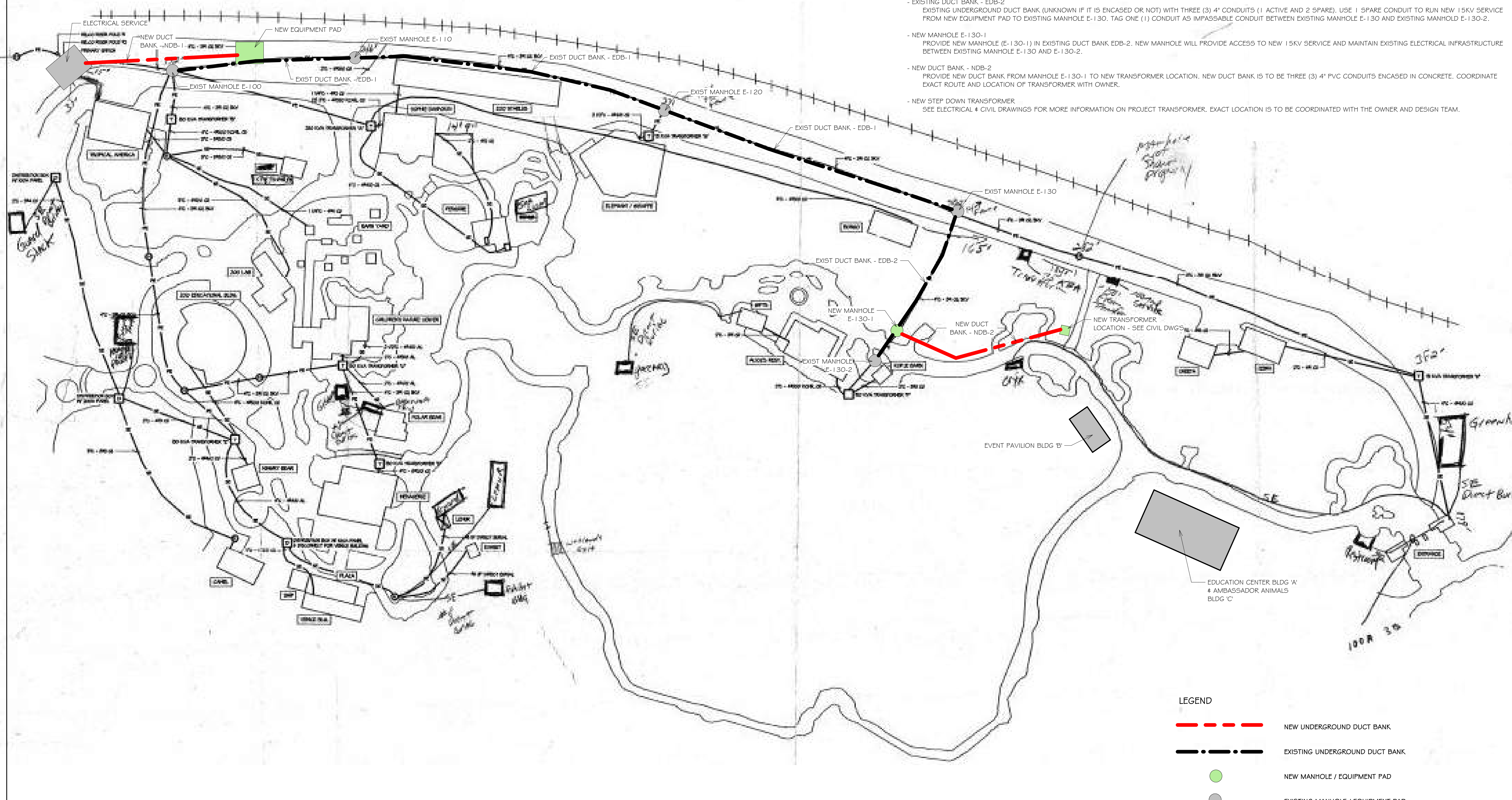
DRAWN BY: KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

G2.1

SHEET: OF:

PRIMARY ELECTRICAL SCOPE OF WORK:

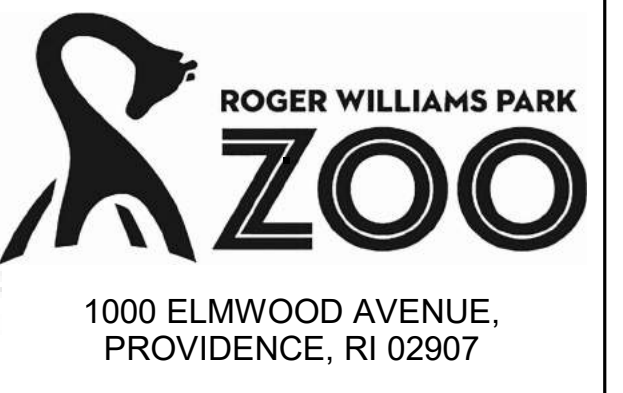
- GC IS TO PROVIDE DESIGN-BUILD SERVICES TO UPGRADE THE EXISTING ELECTRICAL SERVICE AT THE ZOO AND NEW PRIMARY ELECTRICAL SERVICE TO A NEW STEP DOWN TRANSFORMER FOR THE BUILDING SITE. COORDINATE WITH RI ENERGY AND THE OWNER FOR FINAL DESIGN DETAILS, EQUIPMENT LOCATIONS AND DUCT BANK ROUTING.
- EXISTING SERVICE:
THE EXISTING ELECTRICAL SERVICE FROM RI ENERGY IS A 15KV SERVICE w/ A STEP DOWN TRANSFORMER TO PROVIDE THE ZOO WITH 5KV ELECTRICAL SERVICE. PROVIDE A NEW 15KV SERVICE 4 METER TO MEET RI ENERGY REQUIREMENTS AND A NEW 750 KVA 12470-41 GVY2400 STEP DOWN TRANSFORMER TO SERVE THE EXISTING 5KV SYSTEM. SEE PROJECT ALLOWANCES FOR WORK ASSOCIATED WITH ELECTRICAL SERVICE UPGRADES.
- NEW DUCT BANK - NDB-1
PROVIDE NEW UNDERGROUND ELECTRICAL DUCT BANK FROM SERVICE ENTRANCE TO NEW EQUIPMENT PAD. NDB-1 IS TO BE A CONCRETE ENCASED DUCT BANK WITH TWO (2) 4" PVC CONDUITS.
- NEW EQUIPMENT PAD
PROVIDE NEW CONCRETE EQUIPMENT PAD (APPROX. 20' X 15') AS REQUIRED FOR NEW STEP DOWN TRANSFORMER, 15KV SWITCH AND 5KV SWITCH. FINAL DESIGN, SIZE & PLACEMENT OF EQUIPMENT PAD IS TO BE COORDINATED IN THE FIELD.
- EXISTING DUCT BANK - EDB-1
EXISTING UNDERGROUND DUCT BANK (UNKNOWN IF IT IS ENCASED OR NOT) WITH THREE (3) 4" CONDUITS (1 ACTIVE AND 2 SPARE). USE 1 SPARE CONDUIT TO RUN NEW 15KV SERVICE FROM NEW EQUIPMENT PAD TO EXISTING MANHOLE E-130. REPAIR ONE (1) IMPASSABLE CONDUIT BETWEEN EXISTING MANHOLE E-110 AND EXISTING MANHOLE E-120.
- EXISTING DUCT BANK - EDB-2
EXISTING UNDERGROUND DUCT BANK (UNKNOWN IF IT IS ENCASED OR NOT) WITH THREE (3) 4" CONDUITS (1 ACTIVE AND 2 SPARE). USE 1 SPARE CONDUIT TO RUN NEW 15KV SERVICE FROM NEW EQUIPMENT PAD TO EXISTING MANHOLE E-130. TAG ONE (1) CONDUIT AS IMPASSABLE CONDUIT BETWEEN EXISTING MANHOLE E-130 AND EXISTING MANHOLE E-130-2.
- NEW MANHOLE E-130-1
PROVIDE NEW MANHOLE (E-130-1) IN EXISTING DUCT BANK EDB-2. NEW MANHOLE WILL PROVIDE ACCESS TO NEW 15KV SERVICE AND MAINTAIN EXISTING ELECTRICAL INFRASTRUCTURE BETWEEN EXISTING MANHOLE E-130 AND E-130-2.
- NEW DUCT BANK - NDB-2
PROVIDE NEW DUCT BANK FROM MANHOLE E-130-1 TO NEW TRANSFORMER LOCATION. NEW DUCT BANK IS TO BE THREE (3) 4" PVC CONDUITS ENCASED IN CONCRETE. COORDINATE EXACT ROUTE AND LOCATION OF TRANSFORMER WITH OWNER.
- NEW STEP DOWN TRANSFORMER
SEE ELECTRICAL & CIVIL DRAWINGS FOR MORE INFORMATION ON PROJECT TRANSFORMER. EXACT LOCATION IS TO BE COORDINATED WITH THE OWNER AND DESIGN TEAM.



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Revision Number	Revision Date

ISSUED FOR BID
April 18, 2024

SHEET TITLE
ELECTRICAL SERVICE SITE PLAN

DRAWN BY:	JOB NUMBER: 18050
CHECKED BY: MS	DATE: 05/01/2024

G3.0

SHEET: OF:

GENERAL CONSTRUCTION NOTES:

- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE TRAILER AT ALL TIMES. DEVIATIONS OR CHANGES WILL NOT BE ALLOWED UNLESS BY WRITTEN APPROVAL FROM THE ENGINEER.
- SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL APPROVALS HAVE BEEN SECURED. REQUIRED PERMITS/APPROVALS FOR THE PROJECT INCLUDE BUT NOT LIMITED TO THE FOLLOWING: SITE PLAN APPROVAL BY THE CITY OF PROVIDENCE/ROGER WILLIAMS PARK ZOO, NBC (NARRACANTSETT BAY COMMISSION) SEWER CONNECTION, PROVIDENCE WATER SERVICE CONNECTION, RIDEM RPPDES/STORMWATER APPROVAL.
- THE CONTRACTOR MUST RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR IN THE STATE OF RHODE ISLAND TO LAYOUT ON THE GROUND ALL NEW ELEMENTS OF WORK. IF ANY WORK IS INSTALLED PRIOR TO THE ABOVE REQUIREMENT AND IF ANY WORK IS NOT SATISFACTORY TO THE ENGINEER, THE CONTRACTOR MUST REPLACE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING, INSTALLING OR PROCEEDING WITH WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER NECESSARY MEASURES NEEDED TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING UNDERGROUND UTILITIES AND FACILITIES ON THE DRAWINGS; HOWEVER, THE INFORMATION SHOWN IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION. VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIALS. THE CONTRACTOR MUST CONTACT THE LOCAL UTILITY COMPANIES FOR EXACT LOCATION OF UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE START OF ANY WORK. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR.
- THE CONTRACTOR MUST NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITIES IN THE AREA OF PROPOSED CONSTRUCTION, EXCAVATION OR BLASTING AT LEAST THREE WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO THE START OF ANY CONSTRUCTION, EXCAVATION OR BLASTING. ALL WATER, SEWER, GAS AND ALL OTHER UTILITIES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR THE CITY OF PROVIDENCE AND THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
 - ALL CONSTRUCTION IN THE PUBLIC ROW MUST BE IN ACCORDANCE WITH THE CITY'S STANDARD DETAILS AVAILABLE AT [HTTPS://WWW.PROVIDENCERI.GOV/PUBLIC-WORKS/FORMS/UNDER "REPORTS + PUBLICATIONS",](https://www.providenceri.gov/public-works/forms/under-reports-publications) OR AT [HTTPS://WWW.PROVIDENCERI.GOV/WP-CONTENT/UPLOADS/2019/06/PROVIDENCE-DPW-STANDARD-DETAILS.PDF.](https://www.providenceri.gov/wp-content/uploads/2019/06/providence-dpw-standard-details.pdf)
 - THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AS AMENDED, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF, AS IF ATTACHED HERETO.
- THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT, DRIVEWAYS, SIDEWALKS, WALL CURBS, ETC. DAMAGED DURING CONSTRUCTION WITH MATCHING MATERIALS.
- THE CONTRACTOR AGREES THAT HE WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE PROJECT SITE CONDITIONS THROUGHOUT CONSTRUCTION INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONJUNCTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- ALL MATERIALS USED FOR CONSTRUCTION MUST BE NEW AND FREE OF DEFECTS. USED OR SALVAGED MATERIAL WILL NOT BE ALLOWED UNLESS WRITTEN APPROVAL FROM THE OWNER IS OBTAINED BY THE CONTRACTOR.
- AT ALL TIME THE CONTRACTOR MUST MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS. (I.E. IN TIMES OF RAIN OR SNOW, ROADS MUST BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC.). WIDTH OF EMERGENCY VEHICLE ACCESS MUST BE A MINIMUM OF 20 FEET WIDE. ACCESS TO BUILDINGS THAT HAVE A FIRE SPRINKLER SYSTEM OR STANDPIPE MUST BE WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (FDC). NFPA 1141 3-1.
- NECESSARY BARRICADES, LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAYBE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC MUST BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR.
- HIGH INTENSITY LIGHTING FACILITIES MUST BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC. (REFER TO ELECTRICAL SITE PLANS PREPARED BY OTHERS FOR DETAILS.)
- ALL RI HIGHWAY BOUNDS AND PERMANENT SURVEY MARKERS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.
- ALL WORK WITHIN THE STATE HIGHWAY RIGHT OF WAY SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, INCLUDING ALL REVISIONS AND THE RI STANDARD DETAILS.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2003 INCLUDING ALL REVISIONS.
- REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL PLANS FOR ALL BUILDING INFORMATION.
- THERE ARE KNOWN WETLAND AREAS ON OR ADJACENT TO THE PROJECT SITE. THE WETLANDS INDICATED HAVE BEEN FLAGGED IN THE FIELD.
- ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED ON THE SITE PLAN.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR IS REQUIRED TO DEVELOP AND IMPLEMENT A PLAN FOR THE TEMPORARY CONTROL OF VEHICULAR AND PEDESTRIAN TRAFFIC FOR WORK WITHIN PUBLIC STREET RIGHT-OF-WAY AT THE SITE EGRESS. CONTRACTOR SHALL OBTAIN APPROVAL OF SAID PLAN FROM APPROPRIATE STATE AND COMMUNITY PUBLIC SAFETY OFFICIALS.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION. SHOP DRAWINGS OF PRECAST STRUCTURES SHALL BE REVIEWED BY THE ENGINEER AND APPROVED BEFORE USE.
- IF ANY EXISTING STRUCTURES AND/OR UTILITIES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, EITHER ON THE PROJECT SITE, ADJACENT PROPERTIES, OR WITHIN STATE RIGHT-OF-WAY, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

SURVEY NOTES:

- THE EXISTING CONDITIONS SHOWN WERE PROVIDED BY THE ROGER WILLIAMS PARK ZOO FOR USE IN THE PROJECT DESIGN AND ARE BASED ON DRAWINGS PREPARED BY BERKSHIRE DESIGN GROUP, ETC. AL THE EXISTING MAPPING HAS BEEN SUPPLEMENTED BY LIMITED FIELD "EDITS BY GAROFALO & ASSOCIATES, BASED ON OBSERVED CONDITIONS IN JULY 2019 AND RECORD PLANS FOR FAST CONSTRUCTION WITHIN AND ADJACENT TO THE WORK ZONE. FIELD SURVEY WAS PERFORMED BY GAROFALO & ASSOCIATES WITHIN THE ZEBRA EXHIBIT IN OCTOBER, 2019 TO SUPPLEMENT THE BASE MAPPING PROVIDED.
- THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS

DATA ACCUMULATION SURVEY	CLASS III
TOPOGRAPHIC SURVEY ACCURACY	T-2
- SITEWORK HAS BEEN PERFORMED ON AND IN THE IMMEDIATE VICINITY OF THE PROJECT SITE SINCE PROJECT SURVEY IN ASSOCIATION WITH OTHER PROJECTS BY THE OWNER. SPECIFIC REFERENCE IS MADE TO PLANS TITLED "ADVANCE UTILITY SITE PLANS FOR ROGER WILLIAMS PARK ZOO EDUCATION CENTER & PAVILION", DATED DECEMBER 16, 2023.

GENERAL UTILITY NOTES:

- THE CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AND ALL LOCAL AUTHORITIES & UTILITY COMPANIES TO VERIFY LOCATIONS OF UTILITIES WITHIN THE AREA 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION OR DEMOLITION FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY, LOCATE AND PROTECT EXISTING UTILITIES IN THE FIELD WHETHER OR NOT SHOWN ON THE DRAWINGS.
- ALL WORK SHALL BE IN COMPLETE ACCORDANCE WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.
- THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBANCE OF CURBING, PAVING AND COMPACTED SUBGRADE. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER & ALL LOCAL UTILITY COMPANIES 48 HOURS BEFORE EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS DISCOVERED IN THE PLANS.
- BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREA. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
- THE CONTRACTOR SHALL REMOVE ANY ABANDONED FOUNDATIONS, UTILITY STRUCTURES, BURIED DEBRIS ETC. WHICH INTERFERE WITH THE INSTALLATION OF THE UTILITY WORK. ALL SUCH STRUCTURES SHALL BE COMPLETELY REMOVED AND THE EXCAVATED AREA SHALL BE BACKFILLED WITH COMPACTED GRAVEL IN 6" LIFTS TO 95% COMPACTION TO 6" BELOW THE BOTTOM OF THE UTILITY AND PIPE.
- COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THE THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LIFTS NOT TO EXCEED ONE FOOT IN COMPACTED TRENCHES. CORRECTION OF ANY TRENCH WITH SETTLEMENT WITHIN A YEAR FROM THE DATE OF PROJECT APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PIPING LAYOUT INDICATED ON THESE PLANS IS DIAGRAMMATIC ONLY AND DOES NOT SHOW ALL THE REQUIRED FITTINGS FOR PROPER ALIGNMENT. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS TO OBTAIN PROPER ALIGNMENT AND FOR EXISTING UTILITY CONNECTIONS BASED UPON FIELD CONDITIONS.
- IF DURING EXCAVATION THE TRENCH WIDTH EXCEEDS THE SUM OF THE PIPE O.D. PLUS 2'-0", PLACE AND COMPACT THE FILL TO 12" ABOVE THE PIPE AND RE-EXCAVATE TO REQUIRED GRADE.
- ALL WATER SERVICE MATERIALS AND WORKMANSHIP SHALL CONFORM TO PROVIDENCE WATER SUPPLY BOARD REGULATIONS, STANDARDS AND SPECIFICATIONS. NOTIFICATION SHALL BE PROVIDED TO SAID AUTHORITIES AT LEAST 72 HOURS PRIOR TO INITIATING CONSTRUCTION. DOMESTIC WATER SERVICE PIPING SIZE SHOWN IS APPROXIMATE ONLY AND SHALL BE SIZED AND VERIFIED BY A LICENSED PLUMBING ENGINEER.
- ALL FIRE AND PLUMBING FIXTURES MUST CONFORM TO LOCAL SPECIFICATIONS AND AS STIPULATED BY THE LOCAL FIRE MARSHALL AND/OR THE BUILDING OFFICIAL.
- SEWER LINES SHALL BE INSTALLED AT A MINIMUM 10 FOOT HORIZONTAL SEPARATION FROM ANY PROPOSED OR EXISTING WATER LINE. WHENEVER SEWER LINES MUST CROSS WATER LINES, THE SEWER SHALL BE INSTALLED SO THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHERE 18 INCH VERTICAL SEPARATION & 10 FOOT HORIZONTAL SEPARATION CAN NOT BE MET AT WATER AND SEWER CROSSINGS, THE SEWER PIPE SHALL BE ENCASED IN EITHER DUCTILE IRON OR €900 BLUE BRUTE PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF CROSSING.
- STORM DRAINS 12" AND OVER SHALL BE SMOOTH INTERIOR WALL AND EXTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) PIPE CAPABLE OF WITHSTANDING (H=20) LOAD UNLESS NOTED OTHERWISE. PIPE SHALL BE JOINED USING BELL & SPIGOT JOINTS MEETING OR EXCEED ASTM F2648. THE JOINT SHALL BE SOIL-TIGHT AND GASKETS SHALL MEET OR EXCEED ASTM F477. HDPE PIPE SHALL BE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS INC. (ADS), HANCOR PIPE OR LANE PIPE. ALL STORM DRAINAGE PIPING SHALL BE LAID ON A SMOOTH CONTINUOUS GRADE WITH NO VISIBLE BENDS AT THE JOINTS. WHERE INDICATED ON DRAWINGS REINFORCED CONCRETE PIPE (RCP) PIPE SHALL BE CLASS III RCP WITH "O" RING GASKET JOINTS
- GAS SERVICE FACILITIES SHALL BE DESIGNED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE UTILITY INSTALLATIONS AS REQUIRED TO ENSURE ADEQUATE GAS SERVICE IS PROVIDED AND SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES (TRENCHING, LAYING PIPE, ETC.) AS ARE REQUIRED BY THE GAS COMPANY FOR COMPLETE AND IN PLACE CONSTRUCTION.
- ELECTRIC SERVICE FACILITIES SHALL BE DESIGNED BY OTHERS. ELECTRIC SERVICE AND TRANSFORMER PAD SHALL CONFORM TO THE REQUIREMENTS OF THE ELECTRIC COMPANY. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE ELECTRIC SERVICE IS PROVIDED AND SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES (TRENCHING, LAYING PIPE, ETC.) AS ARE REQUIRED BY THE ELECTRIC COMPANY FOR COMPLETE AND IN PLACE CONSTRUCTION. REFER TO ELECTRICAL DRAWINGS FOR DETAILS ON ALL UNDERGROUND ELECTRIC.
- TEL/CABLE SERVICE FACILITIES SHALL BE DESIGNED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE UTILITY SERVICE IS PROVIDED AND SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES (TRENCHING, LAYING PIPE ETC.) AS IS REQUIRED BY THE LOCAL UTILITY CO. FOR COMPLETE AND IN PLACE CONSTRUCTION. REFER TO ELECTRICAL DRAWINGS FOR ALL UNDERGROUND ELECTRIC.
- SITE LIGHTING ELEMENTS ARE SHOWN FOR APPROXIMATE ONLY. SITE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WORKING OF LIGHT IN LOCATIONS INDICATED. REFER TO SITE LIGHTING PLANS PLANS FOR INSTALLATION REQUIREMENTS.

GENERAL DRAINAGE & GRADING NOTES:

- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUDED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE CITY OF PROVIDENCE SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- THE MAXIMUM RUNNING SLOPE ALONG ANY SIDEWALK SHALL BE 5%. THE MAXIMUM CROSS SLOPE ACROSS ANY SIDEWALK SHALL BE 2%. A MINIMUM 5'x5' LANDING SHALL BE PROVIDED IN FRONT OF ALL BUILDING ENTRANCES.
- ALL ADAAG PARKING SPACES AND LOADING SPACES SHALL BE 2% MAXIMUM SLOPE IN ANY DIRECTION.
- INSTALL SILT SACKS AT ALL INLETS AFTER INSTALLATION.

STORMWATER SYSTEM MAINTENANCE NOTES:

THE DRAINAGE SYSTEMS ARE TO BE MONITORED THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD BY THE CONTRACTOR. UPON COMPLETION OF THE PROJECT THE CONTRACTOR MUST DO A FINAL FLUSH MAINTENANCE & CLEAN UP OF THE STORMWATER MANAGEMENT SYSTEM AND THE SITE. UPON COMPLETION OF THE CONTRACTOR'S FINAL MAINTENANCE & CLEAN UP OF THE PROJECT, MONITORING OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE THE RESPONSIBILITY OF THE OWNER.

CONSTRUCTION MONITORING/MAINTENANCE PROCEDURES SHALL BE AS FOLLOWS:
(RESPONSIBILITY OF CONTRACTOR)

- SILT BARRIER: MONITOR SILT BARRIER ON A WEEKLY BASIS AND AFTER EVERY RAIN STORM EVENT AND REPAIR OR REPLACE ANY DAMAGED AREAS IMMEDIATELY. IMMEDIATELY CLEAN THE SILT BARRIER IF SIX INCHES OR MORE OF SEDIMENT HAS ACCUMULATED ON THE HAYBALE & SILT BARRIER.
- PAVED AREAS: PARKING LOTS, PUBLIC & PRIVATE ROADWAYS AND GUTTERS SHALL BE SWEEP CLEAN OF ALL SEDIMENT & DEBRIS. SWEEPING & REMOVAL OF DEBRIS SHALL BE PERFORMED ON A WEEKLY BASIS AT A MINIMUM.
- CATCH BASINS: ALL CATCH BASINS SHALL BE INSTALLED AS DETAILED AND INSPECTED AFTER EVERY RAIN STORM EVENT. IMMEDIATELY CLEAN THE CATCH BASIN SUMP IF TWO FEET OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE CATCH BASIN.
- DRAIN MANHOLES: DRAIN MANHOLES SHALL BE INSTALLED AS DETAILED AND INSPECTED AFTER EVERY RAIN STORM EVENT IMMEDIATELY CLEAN THE DRAIN MANHOLE IF ONE FOOT OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE DRAIN MANHOLE.
- SUBSURFACE INFILTRATION BASIN (STORMTECH INFILTRATION SYSTEMS AND ISOLATOR ROWS): SUBSURFACE INFILTRATION BASIN SHALL BE INSPECTED AFTER EVERY RAIN STORM. CARE SHALL BE TAKEN TO PREVENT SILTATION OF THE BASIN AFTER INSTALLATION. PRETREATMENT BMP'S (DEEP SUMP CATCH BASINS & WATER QUALITY STRUCTURES) MUST BE MAINTAINED AND CLEANED PER THE PROCEDURES LISTED TO ENSURE PROPER FUNCTIONING. SUBSURFACE INFILTRATION BASIN SHALL BE MONITORED FOR ANY PONDING AND ACCUMULATION OF SEDIMENT/DEBRIS. ALL ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED BY A VAC-TRUCK. DISPOSAL OF ALL SEDIMENT AND DEBRIS MUST IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES & REGULATIONS.

POST CONSTRUCTION MONITORING/MAINTENANCE PROCEDURES SHALL BE AS FOLLOWS:
(RESPONSIBILITY OF OWNER)

- PAVED AREAS: PARKING LOTS, ROADS AND ALL ACCESS WAYS AND GUTTERS MUST BE SWEEP CLEAN OF ALL SEDIMENT AND DEBRIS ON BI-ANNUAL BASIS IN SPRING AND FALL OF EACH YEAR. OR AS NECESSARY.
- CATCH BASINS: ALL CATCH BASINS MUST BE INSPECTED AND MAINTAINED ON A BI-ANNUAL BASIS IN MARCH AND OCTOBER OF EACH YEAR. CATCH BASINS MUST BE INSPECTED TO ENSURE THEY HAVE ADEQUATE SUMP CAPACITY, FRAMES AND GRATES ARE NOT DAMAGED, OIL/WATER SEPARATING DEVICES ARE IN PLACE. CATCH BASIN SUMPS ARE TO BE CLEANED OUT DURING BI-ANNUAL INSPECTIONS IN MARCH AND OCTOBER OF EACH YEAR. IMMEDIATELY CLEAN THE CATCH BASIN SUMP IF TWO FEET OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE CATCH BASIN.
- DRAIN MANHOLES: ALL DRAIN MANHOLES MUST BE INSPECTED AND MAINTAINED ON A BI-ANNUAL BASIS IN MARCH AND OCTOBER OF EACH YEAR. DRAIN MANHOLES MUST BE INSPECTED TO ENSURE FRAMES AND COVERS ARE NOT DAMAGED AND NO BLOCKAGES HAVE OCCURRED WITHIN THE MANHOLE. DRAIN MANHOLES ARE TO BE CLEANED OUT DURING BI-ANNUAL INSPECTIONS IN MARCH AND OCTOBER OF EACH YEAR IMMEDIATELY CLEAN THE DRAIN MANHOLE IF ONE FOOT OR MORE OF SEDIMENT HAS ACCUMULATED.
- SUBSURFACE INFILTRATION BASINS AND ISOLATOR ROWS: SUBSURFACE INFILTRATION BASIN SHALL BE INSPECTED ON A BI-ANNUAL BASIS. IN MARCH BASIN SHALL BE MONITORED FOR ANY PONDING AND ACCUMULATION OF SEDIMENT/DEBRIS. ALL ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED BY A VAC-TRUCK. DISPOSAL OF ALL SEDIMENT AND DEBRIS MUST IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES & REGULATIONS.

INFILTRATION AREA CONSTRUCTION PROTECTION

FOR THE LONG-TERM FUNCTION OF THE INFILTRATING SYSTEMS, CARE MUST BE TAKEN IN THIS AREA DURING CONSTRUCTION. THE CONTRACTOR SHALL EMPLOY THE FOLLOWING MINIMUM BEST MANAGEMENT PRACTICES (BMP'S):

- THE INFILTRATION AREAS SHALL NOT BE USED AS A CONSTRUCTION SEDIMENTATION SYSTEM.
- CONSTRUCTION EQUIPMENT, VEHICULAR TRAFFIC, PARKING OF VEHICLES, AND STOCKPILING OF CONSTRUCTION AND EARTH MATERIALS SHALL BE OUTSIDE THE LIMITS OF THE INFILTRATION AREA UNTIL INSTALLATION IS COMPLETED. THE SUBGRADE BENEATH THE SYSTEM SHALL NOT BE COMPACTED.
- EXCAVATION FOR CONSTRUCTION OF THE INFILTRATION AREAS SHALL BE PERFORMED MANUALLY OR BY HYDRAULIC EXCAVATOR OR SOME OTHER SIMILAR MEANS TO ENSURE THAT THE EQUIPMENT IS NOT IN DIRECT CONTACT WITH THE NATURAL INFILTRATION EARTH MATERIAL AND DOES NOT CAUSE COMPACTION OF THE MATERIAL AND THE ENTIRE AREA IS TO BE SCARIFIED PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AND EROSION CONTROLS AROUND THE PERIMETER OF THE INFILTRATION AREA TO PREVENT THE USE OF THIS AREA FOR ALL ACTIVITIES THAT MIGHT DAMAGE THE INFILTRATION CAPABILITIES OF THE AREA. THIS FENCING MAY BE REMOVED FOR BACKFILLING AND FINAL CONSTRUCTION.

SITE PLAN LEGEND (RIDOT/PROVIDENCE STDS):

REFER CITY OF PROVIDENCE DPW STANDARDS:
www.providenceri.gov/wp-content/uploads/2019/06/Providence-DPW-Standard-Details.pdf

- | | | | |
|-------|--|--------|--|
| BCP | BITUMINOUS CONCRETE PAVEMENT
2" CLASS 12.5 HMA SURFACE
7" CLASS 19 HMA BASE
12" GRAVEL BORROW SUBBASE | 7.3.0 | GRANITE CURB |
| | | 7.6.0 | CURB SETTING DETAIL |
| 12"W | 12" PAVEMENT MARKINGS-CROSSWALKS & STOP BAR | 9.9.0 | CONSTRUCTION ACCESS |
| | | 20.1.0 | PAVEMENT MARKINGS-ARROWS AND ONLY |
| 6.1.0 | LIGHT - DUTY ROUND FRAME AND COVER | 43.1.0 | CEMENT CONCRETE SIDEWALK |
| 6.2.1 | HEAVY - DUTY ROUND FRAME AND COVER | 43.3.0 | WHEELCHAIL RAMP |
| 6.3.2 | HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE) | 43.3.1 | WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS |
| 6.4.0 | ROUND FRAME AND GATE | 48.1.0 | DETECTIBLE WARNING PANEL PLACEMENT |
| 7.1.0 | PRECAST CONCRETE CURB | CLF | CHAIN LINK FENCE |
| | | DMF | DECORATIVE METAL FENCE |

SITE LEGEND

EXISTING	NEW	DESCRIPTION
		CENTERLINE (LAYOUT)
		STORM DRAIN
		ELECTRIC (UNDERGROUND)
		FIRE SERVICE
		FLUSHING DRAIN
		GAS
		OVERHEAD WIRE
		PROPERTY LINE
		SANITARY SEWER
		SITE LIGHTING SERVICE
		TELEPHONE
		WATER
		CONTOUR
		SPOT GRADE
		SPOT GRADE (BOT. OF CURB)
		SPOT GRADE (TOP OF CURB)
		SPOT GRADE (BOT. OF WALL)
		SPOT GRADE (TOP OF WALL)
		BITUMINOUS CONC. CURB
		CAPE COD BERM
		PRECAST CONC. CURB
		PRECAST SLOPED MOUNT. CURB
		SLOPED GRANITE CURB
		VERTICAL GRANITE CURB
		CHAINLINK FENCE (CLF)
		STOCKADE FENCE (STKF)
		BORING LOCATION
		CATCH BASIN
		DOUBLE GRATE CATCH BASIN
		CONCRETE THRUST BLOCK
		DRAIN MANHOLE
		FLARED END STRUCTURE
		SEWER MANHOLE
		WATER SERVICE
		UTILITY POLE
		FIRE HYDRANT
		GATE VALVE AND CURB BOX
		HANDICAP SYMBOL (PRKG. SPACE)
		SIGN
		WETLAND
		SOIL EVALUATION LOCATION
		TEST PIT LOCATION
		FIRE DEPARTMENT CONNECTION
		POST INDICATOR VALVE (PIV)
		ELECTRIC MANHOLE (EMH)
		TELEPHONE MANHOLE (TMH)
		TRANSFORMER PAD
		GENERATOR PAD
		GROUND CLEANOUT
		SIGHT LIGHT POLE
		TRAFFIC FLOW DIRECTION
		CONTINUOUS ROW OF HAYBALES
		CONTINUOUS ROW OF SILT FENCE
		PAVEMENT SAWCUT & MATCH TO EXISTING
		RIDOT/PROVIDENCE STD. DETAIL REFERENCE

ABBREVIATIONS

- | | |
|-------|-------------------------------------|
| CI | CAST IRON PIPE |
| CLDI | CEMENT LINED DUCTILE IRON PIPE |
| CLF | CHAINLINK FENCE |
| CTE | POINT OF CONNECTION TO EXISTING |
| | DUCTILE IRON PIPE |
| ESHWT | ESTIMATED SEASONAL HIGH WATER TABLE |
| ETR | EXISTING TO REMAIN |
| EX | EXISTING |
| F&I | FURNISH AND INSTALL |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| INV. | INVERT ELEVATION |
| MTE | MATCH TO EXISTING |
| NIC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| PVC | POLYVINYL CHLORIDE PIPE |
| RCP | REINFORCED CONCRETE PIPE |
| VF | VERIFY IN FIELD |
| WQS | WATER QUALITY STRUCTURE |



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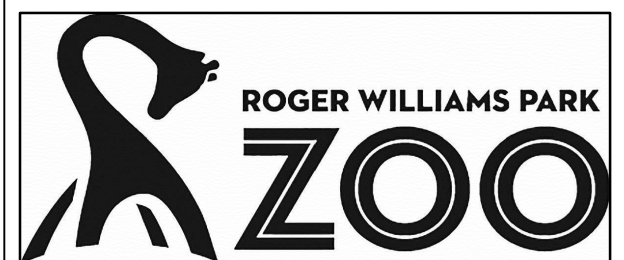
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Revision Schedule

Revision Number	Revision Date

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SHEET TITLE

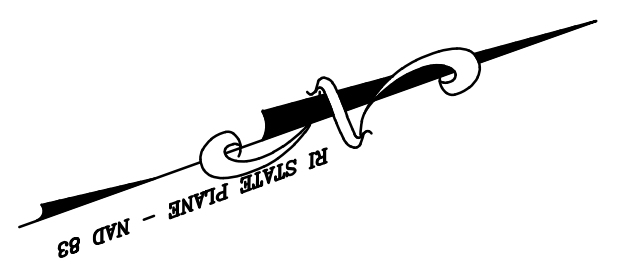
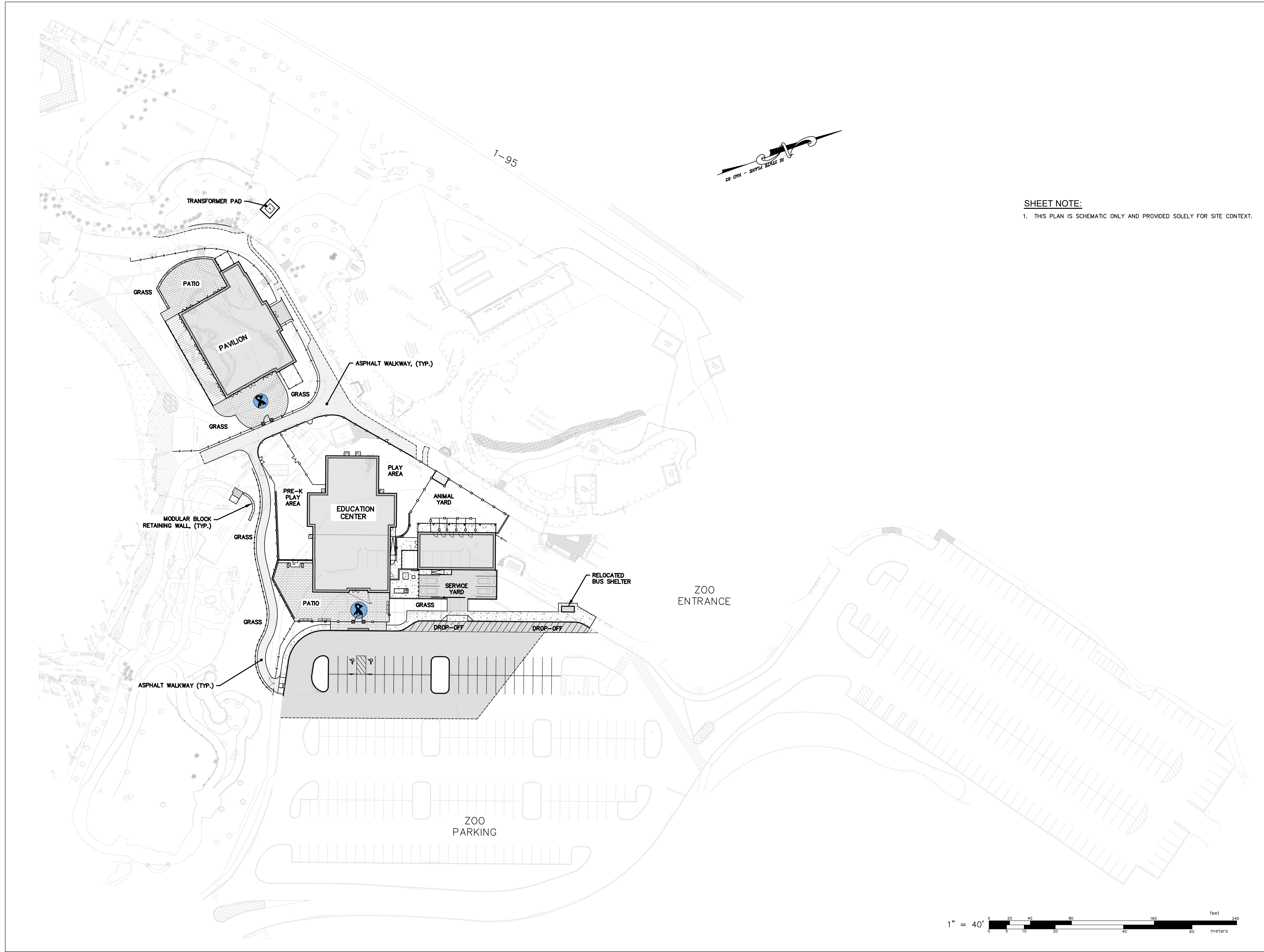
GENERAL NOTES & LEGEND

DRAWN BY: KYY JOB NUMBER: 7213-00

CHECKED BY: SSH DATE: 06/13/2019

C-1.0

SHEET: 2 OF 3



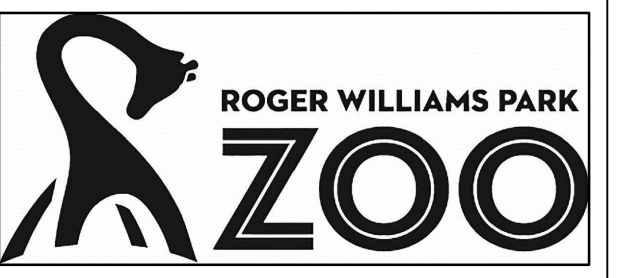
SHEET NOTE:
 1. THIS PLAN IS SCHEMATIC ONLY AND PROVIDED SOLELY FOR SITE CONTEXT.



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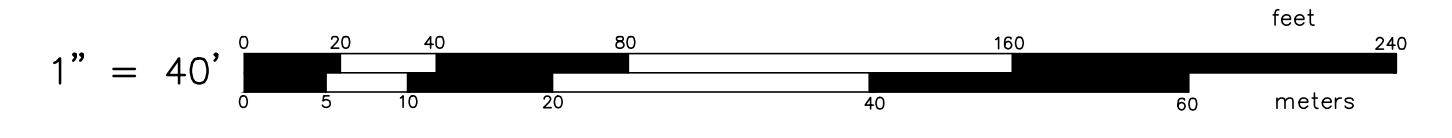
Revision Schedule	
Revision Number	Revision Date

Issued for Bid, April 18, 2024

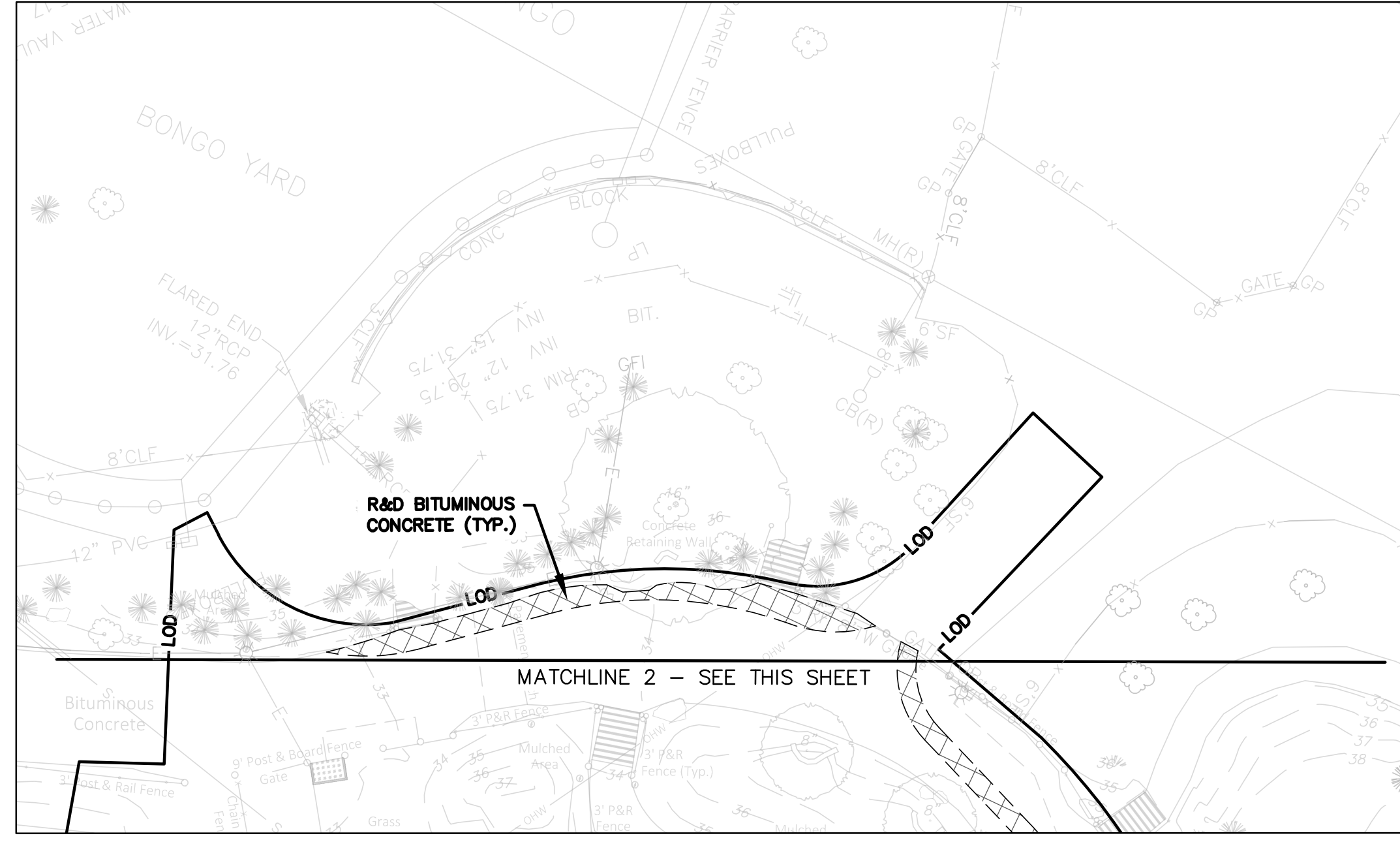
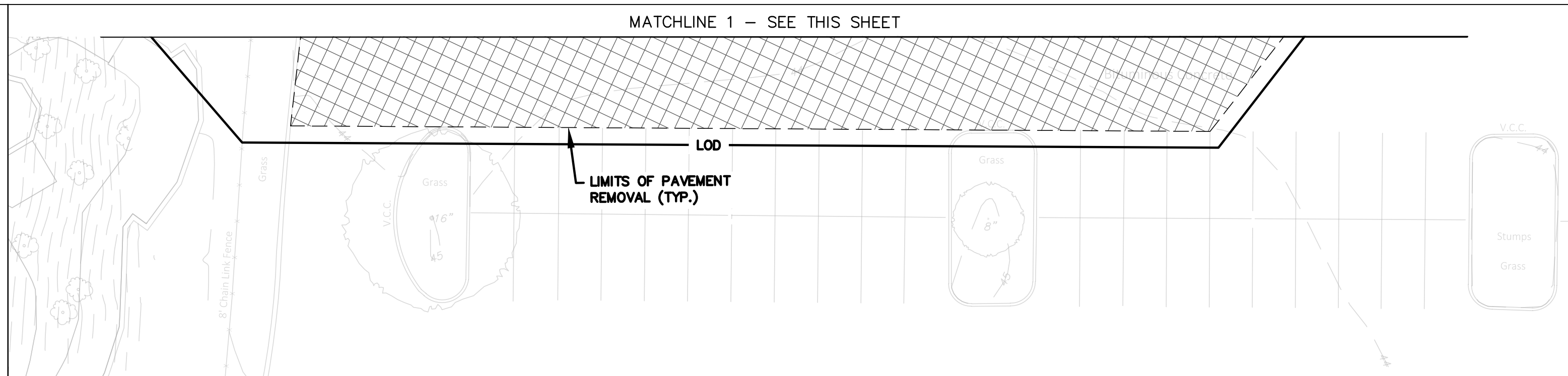
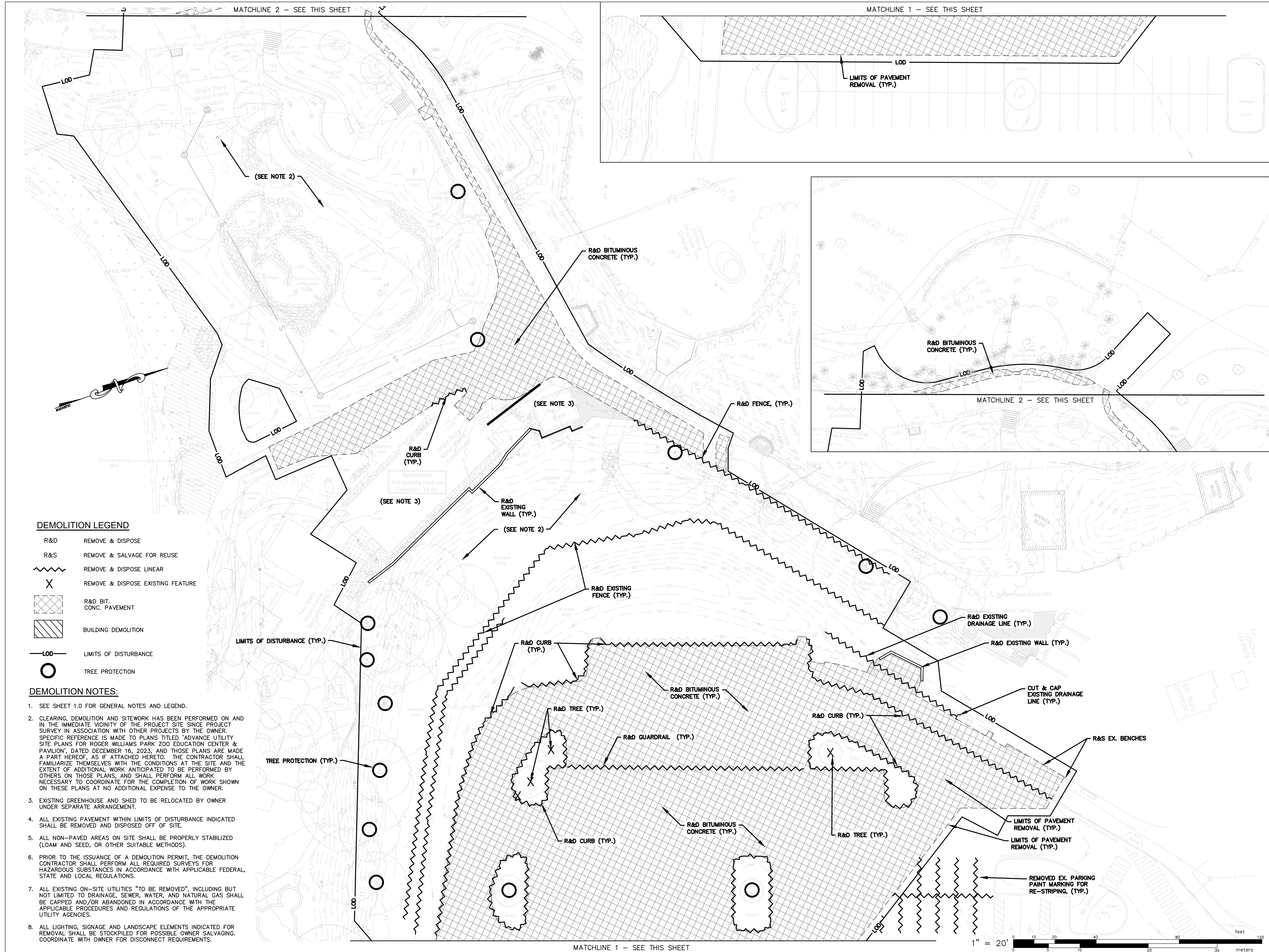
SHEET TITLE
OVERALL PLAN

DRAWN BY: KYJ JOB NUMBER: 7213-00
 CHECKED BY: SSH DATE: 06/13/2019

C-2.0



L:\7213-00 Roger Williams Park Zoo (Saccoccio) - Providence, RI\dwg\01-Current\7213-00-base.dwg 04/17/2024 kyj:mgp 16:43



DEMOLITION LEGEND

- R&D REMOVE & DISPOSE
- R&S REMOVE & SALVAGE FOR REUSE
- REMOVE & DISPOSE LINEAR
- X REMOVE & DISPOSE EXISTING FEATURE
- R&D BIT. CONC. PAVEMENT
- BUILDING DEMOLITION
- LOD LIMITS OF DISTURBANCE
- TREE PROTECTION

DEMOLITION NOTES:

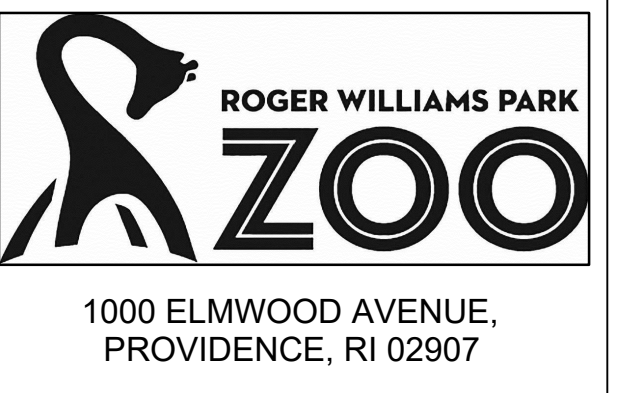
1. SEE SHEET 1.0 FOR GENERAL NOTES AND LEGEND.
2. CLEARING, DEMOLITION AND SITING HAS BEEN PERFORMED ON AND IN THE IMMEDIATE VICINITY OF THE PROJECT SITE SINCE PROJECT SURVEY IN ASSOCIATION WITH OTHER PROJECTS BY THE OWNER. SPECIFIC REFERENCE IS MADE TO PLANS TITLED 'ADVANCE UTILITY SITE PLANS FOR ROGER WILLIAMS PARK ZOO EDUCATION CENTER & PAVILION', DATED DECEMBER 16, 2023, AND THOSE PLANS ARE MADE A PART HEREOF, AS IF ATTACHED HERETO. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE CONDITIONS AT THE SITE AND THE EXTENT OF ADDITIONAL WORK ANTICIPATED TO BE PERFORMED BY OTHERS ON THOSE PLANS, AND SHALL PERFORM ALL WORK NECESSARY TO COORDINATE FOR THE COMPLETION OF WORK SHOWN ON THESE PLANS AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. EXISTING GREENHOUSE AND SHED TO BE RELOCATED BY OWNER UNDER SEPARATE ARRANGEMENT.
4. ALL EXISTING PAVEMENT WITHIN LIMITS OF DISTURBANCE INDICATED SHALL BE REMOVED AND DISPOSED OFF OF SITE.
5. ALL NON-PAVED AREAS ON SITE SHALL BE PROPERLY STABILIZED (LOAM AND SEED, OR OTHER SUITABLE METHODS).
6. PRIOR TO THE ISSUANCE OF A DEMOLITION PERMIT, THE DEMOLITION CONTRACTOR SHALL PERFORM ALL REQUIRED SURVEYS FOR HAZARDOUS SUBSTANCES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
7. ALL EXISTING ON-SITE UTILITIES "TO BE REMOVED", INCLUDING BUT NOT LIMITED TO DRAINAGE, SEWER, WATER, AND NATURAL GAS SHALL BE CAPPED AND/OR ABANDONED IN ACCORDANCE WITH THE APPLICABLE PROCEDURES AND REGULATIONS OF THE APPROPRIATE UTILITY AGENCIES.
8. ALL LIGHTING, SIGNAGE AND LANDSCAPE ELEMENTS INDICATED FOR REMOVAL SHALL BE STOCKPILED FOR POSSIBLE OWNER SALVAGING. COORDINATE WITH OWNER FOR DISCONNECT REQUIREMENTS.



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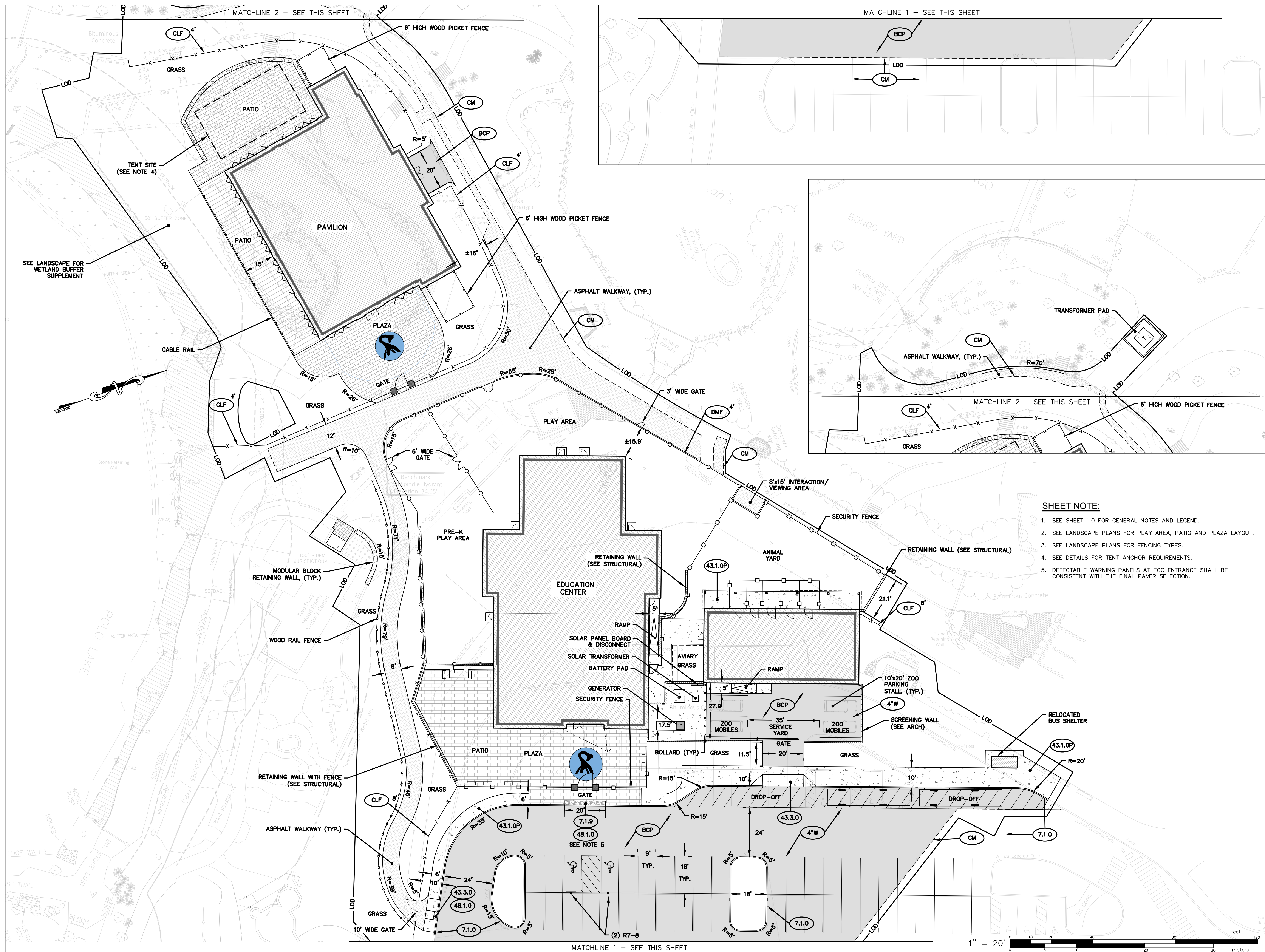
Issued for Bid, April 18, 2024

SHEET TITLE
DEMOLITION PLAN

DRAWN BY: KYJ JOB NUMBER: 7213-00
 CHECKED BY: SSH DATE: 06/13/2019

C-3.0

L:\213-00 Roger Williams Park Zoo (Saccoccio) - Providence, RI\dwg\01-Current\7213-00-DEM.DWG 04/17/2024 kyjgong 16x44



- SHEET NOTE:**
- SEE SHEET 1.0 FOR GENERAL NOTES AND LEGEND.
 - SEE LANDSCAPE PLANS FOR PLAY AREA, PATIO AND PLAZA LAYOUT.
 - SEE LANDSCAPE PLANS FOR FENCING TYPES.
 - SEE DETAILS FOR TENT ANCHOR REQUIREMENTS.
 - DETECTABLE WARNING PANELS AT ECC ENTRANCE SHALL BE CONSISTENT WITH THE FINAL PAVER SELECTION.

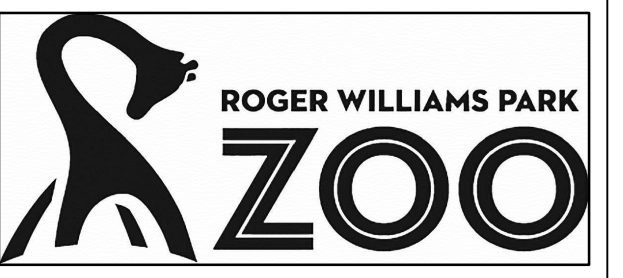


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Revision Number	Revision Date

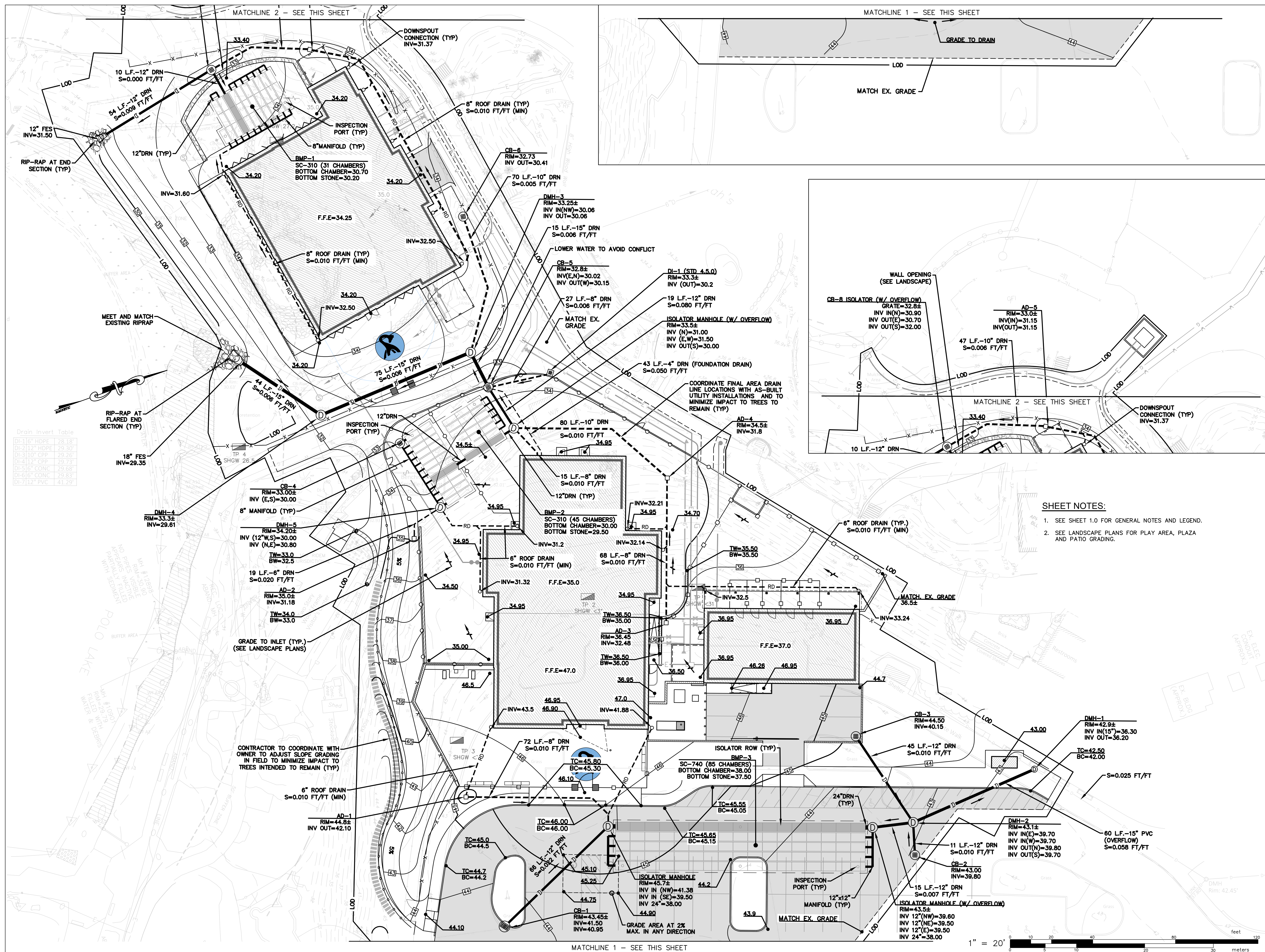
Issued for Bid, April 18, 2024

SHEET TITLE
SITE PLAN

DRAWN BY: KYJ JOB NUMBER: 7213-00
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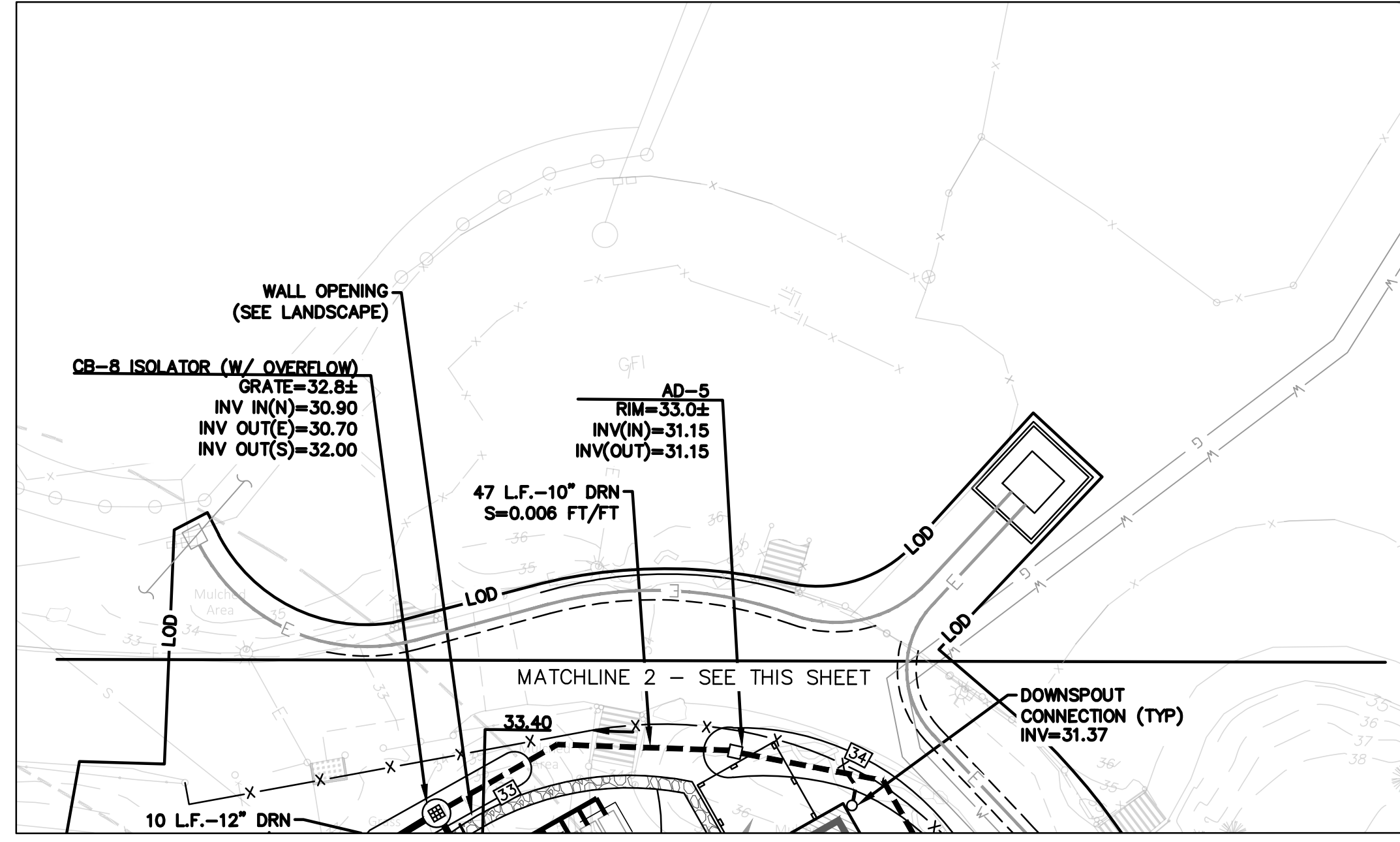
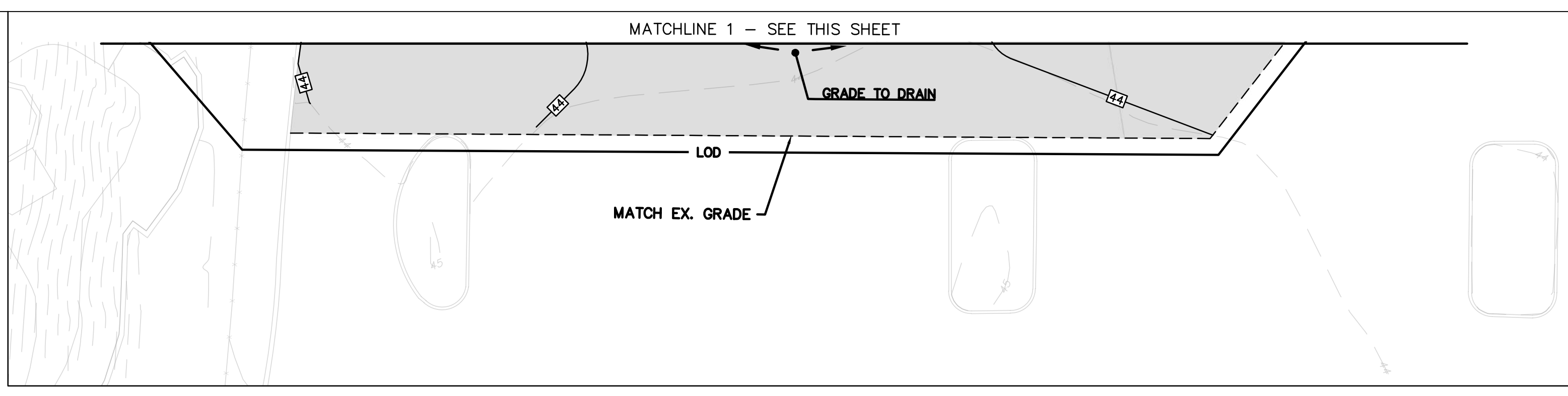
L:\213-00 Roger Williams Park Zoo (Saccoccio) - Providence, RI\dwg\01-Current\213-00-base.dwg 04/17/2024, kyjgong 16:43



Drain Invert Table

DI-1 15" HDPE	28.18
DI-2 12" HDPE	29.30
DI-3 10" CPP	29.26
DI-4 12" CPP	29.73
DI-5 6" CONC	29.68
DI-6 6" CONC	29.83
DI-7 12" PVC	41.29

L:\213-00 Roger Williams Park Zoo (Saccoccio) - Providence, RI\dwg\01-Current\213-00-grading.dwg 04/17/2024 lyngiang 16:48



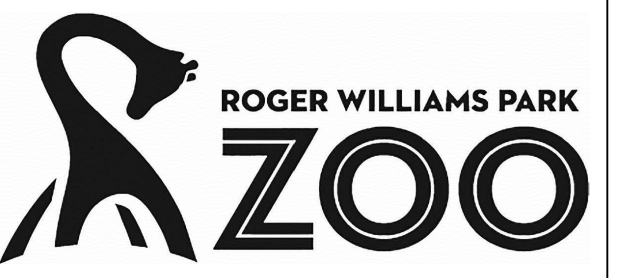
- SHEET NOTES:**
- SEE SHEET 1.0 FOR GENERAL NOTES AND LEGEND.
 - SEE LANDSCAPE PLANS FOR PLAY AREA, PLAZA AND PATIO GRADING.



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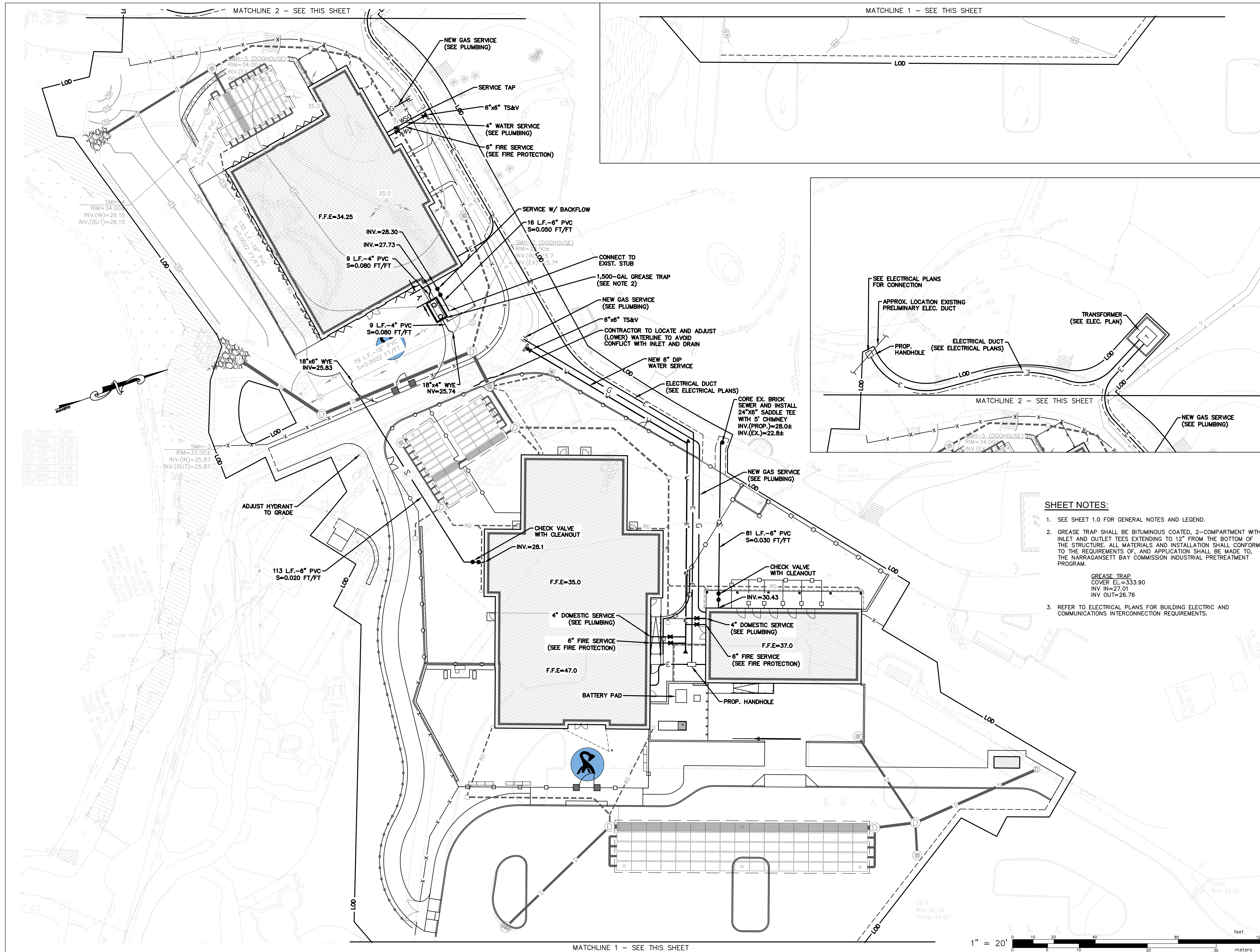
Issued for Bid, April 18, 2024

SHEET TITLE
GRADING & DRAINAGE PLAN

DRAWN BY: RAS JOB NUMBER: 7213-00
 CHECKED BY: SSH DATE: 06/13/2019

C-5.0





main Invert Table

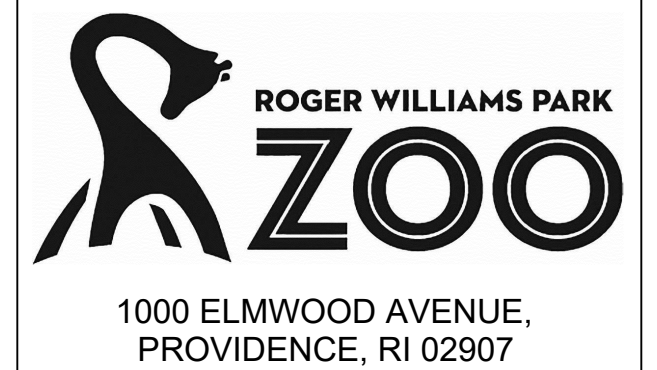
116" HDPE	28.18'
2112" HDPE	29.30'
3110" CPP	29.26'
4112" CPP	29.73'
516" CONC	29.68'
516" CONC	29.83'
7112" PVC	41.29'



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Revision Schedule	
Revision Number	Revision Date

- SHEET NOTES:**
- SEE SHEET 1.0 FOR GENERAL NOTES AND LEGEND.
 - GREASE TRAP SHALL BE BITUMINOUS COATED, 2-COMPARTMENT WITH INLET AND OUTLET TEES EXTENDING TO 12" FROM THE BOTTOM OF THE STRUCTURE. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF, AND APPLICATION SHALL BE MADE TO, THE NARRAGANSETT BAY COMMISSION INDUSTRIAL PRETREATMENT PROGRAM.
 GREASE TRAP
 COVER EL.=333.90
 INV. IN=27.01
 INV. OUT=26.76
 - REFER TO ELECTRICAL PLANS FOR BUILDING ELECTRIC AND COMMUNICATIONS INTERCONNECTION REQUIREMENTS.

Issued for Bid, April 18, 2024

SHEET TITLE
UTILITIES PLAN

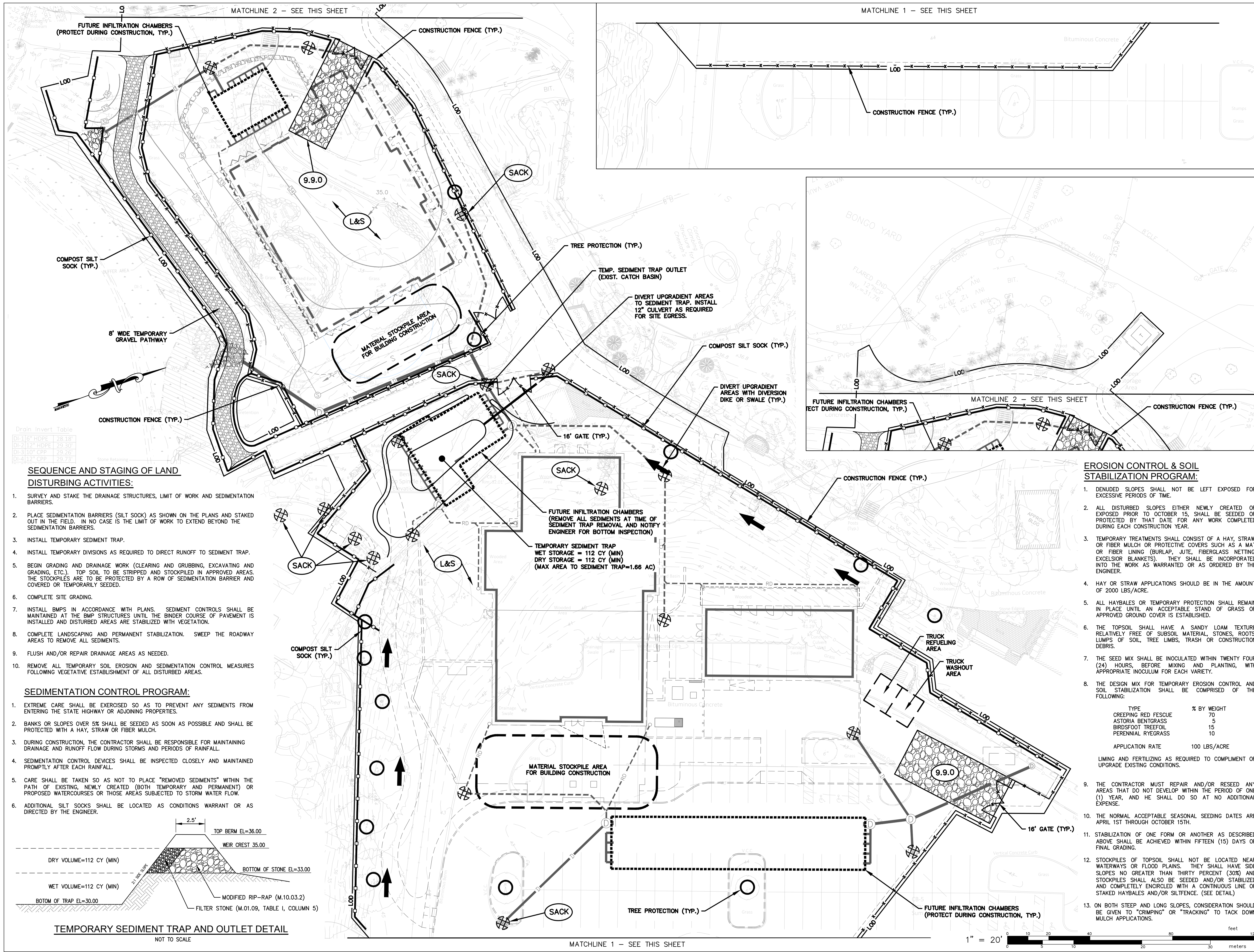
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 CHECKED BY: SSH DATE: 06/13/2019

C-6.0

SHEET: 7 OF 3



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Drain Invert Table

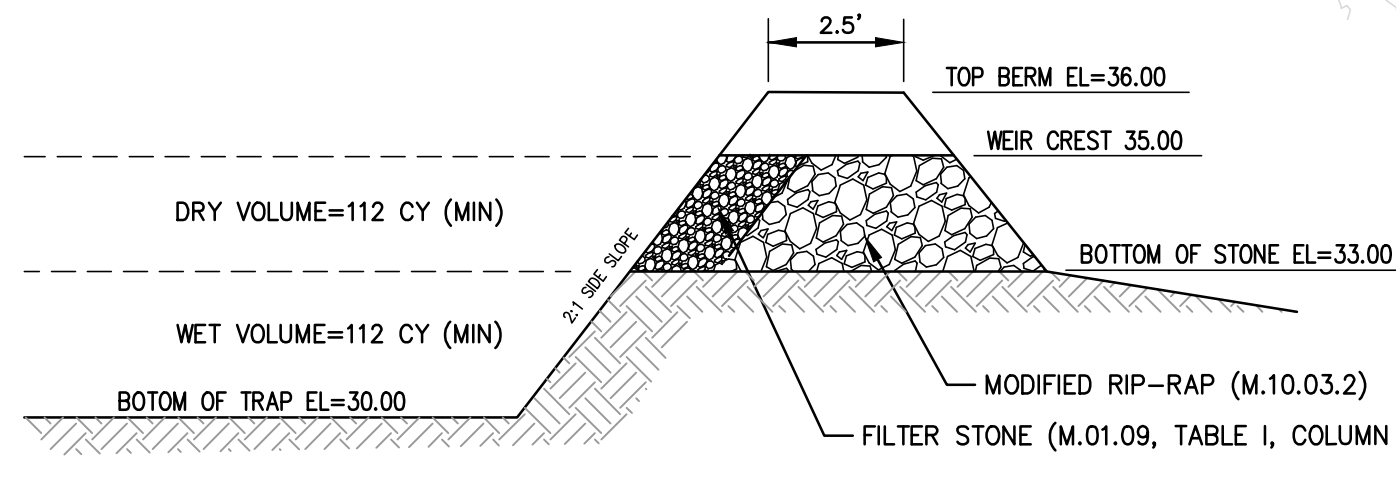
D1-116" HDPE	28.18'
D1-212" HDPE	29.30'
D1-310" CPP	29.26'
D1-412" CPP	29.73'

SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES:

1. SURVEY AND STAKE THE DRAINAGE STRUCTURES, LIMIT OF WORK AND SEDIMENTATION BARRIERS.
2. PLACE SEDIMENTATION BARRIERS (SILT SOCK) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
3. INSTALL TEMPORARY SEDIMENT TRAP.
4. INSTALL TEMPORARY DIVISIONS AS REQUIRED TO DIRECT RUNOFF TO SEDIMENT TRAP.
5. BEGIN GRADING AND DRAINAGE WORK (CLEARING AND GRUBBING, EXCAVATING AND GRADING, ETC.). TOP SOIL TO BE STRIPPED AND STOCKPILED IN APPROVED AREAS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIER AND COVERED OR TEMPORARILY SEEDED.
6. COMPLETE SITE GRADING.
7. INSTALL BMPs IN ACCORDANCE WITH PLANS. SEDIMENT CONTROLS SHALL BE MAINTAINED AT THE BMP STRUCTURES UNTIL THE BINDER COURSE OF PAVEMENT IS INSTALLED AND DISTURBED AREAS ARE STABILIZED WITH VEGETATION.
8. COMPLETE LANDSCAPING AND PERMANENT STABILIZATION. SWEEP THE ROADWAY AREAS TO REMOVE ALL SEDIMENTS.
9. FLUSH AND/OR REPAIR DRAINAGE AREAS AS NEEDED.
10. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.

SEDIMENTATION CONTROL PROGRAM:

1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE STATE HIGHWAY OR ADJOINING PROPERTIES.
2. BANKS OR SLOPES OVER 5% SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
3. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
4. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
5. CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECT TO STORM WATER FLOW.
6. ADDITIONAL SILT SOCKS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.



TEMPORARY SEDIMENT TRAP AND OUTLET DETAIL
NOT TO SCALE

EROSION CONTROL & SOIL STABILIZATION PROGRAM:

1. DENUDED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
3. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
4. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
5. ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
6. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS.
7. THE SEED MIX SHALL BE INOCULATED WITHIN TWENTY FOUR (24) HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
8. THE DESIGN MIX FOR TEMPORARY EROSION CONTROL AND SOIL STABILIZATION SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT
CREeping RED FESCUE	70
ASTORIA BENTGRASS	5
BIRDFOOT TREFOIL	15
PERENNIAL RYEGRASS	10

APPLICATION RATE 100 LBS/ACRE

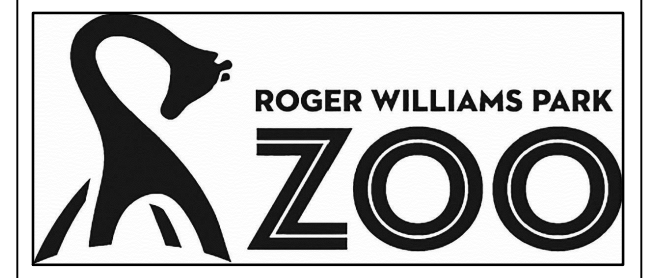
- LIMING AND FERTILIZING AS REQUIRED TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.
9. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) YEAR, AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
 10. THE NORMAL ACCEPTABLE SEASONAL SEEDED DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
 11. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
 12. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR FLOOD PLAINS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%) AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED AND COMPLETELY ENCLOSED WITH A CONTINUOUS LINE OF STAKED HAYBALES AND/OR SILTFENCE. (SEE DETAIL)
 13. ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.



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Revision Schedule

Revision Number	Revision Date

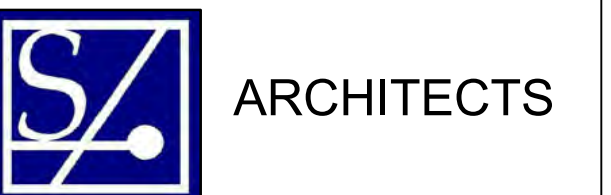
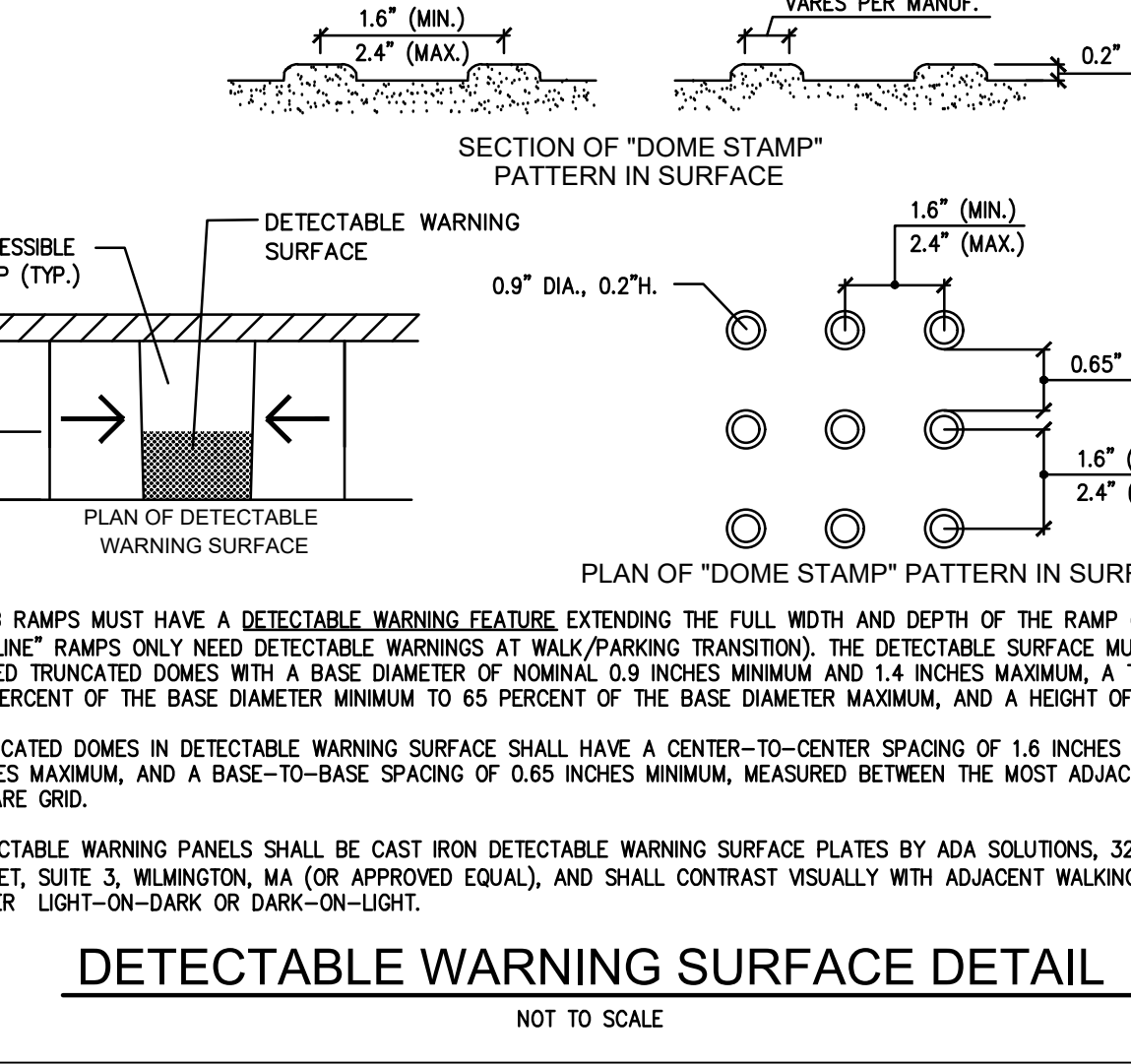
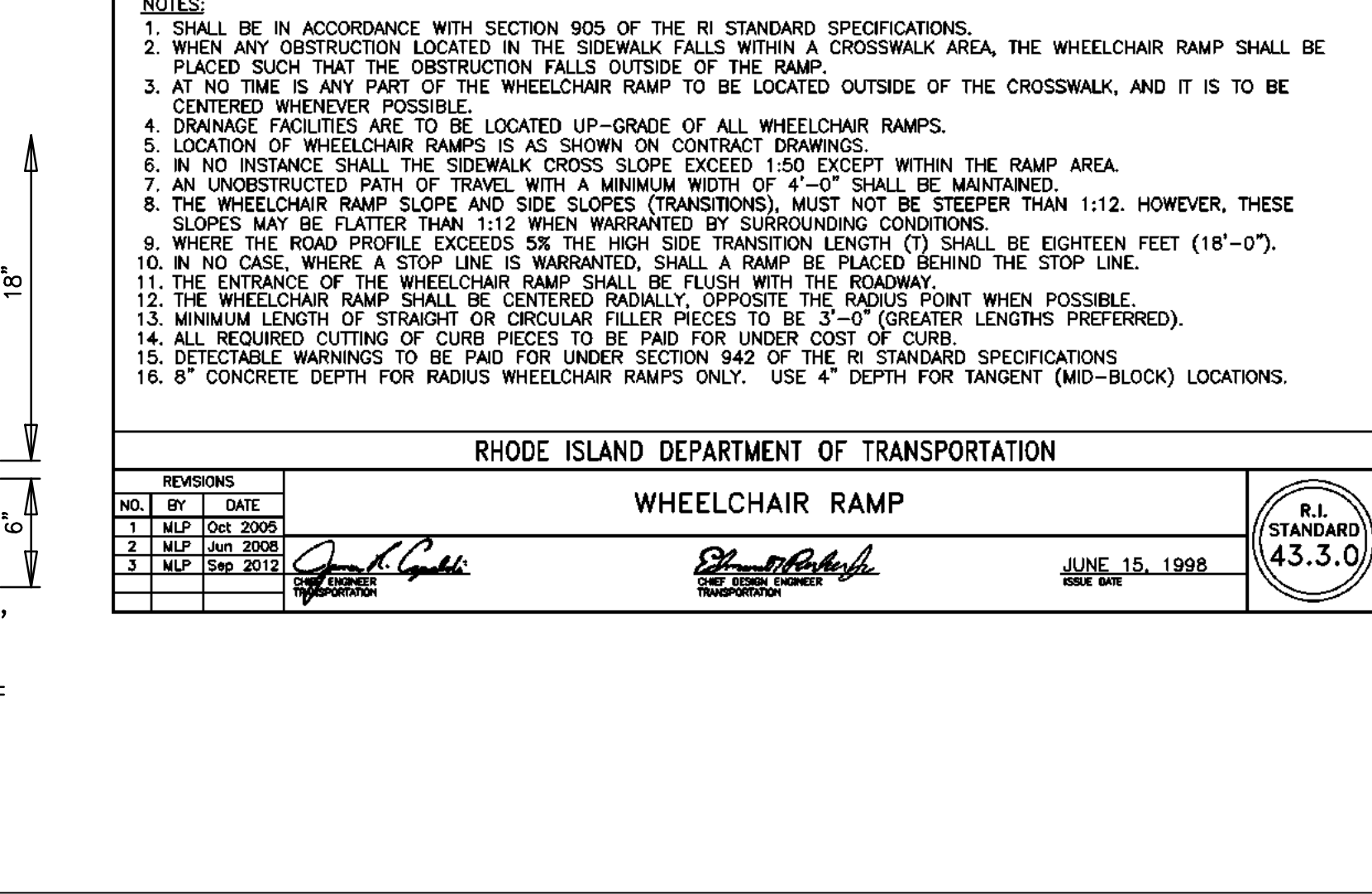
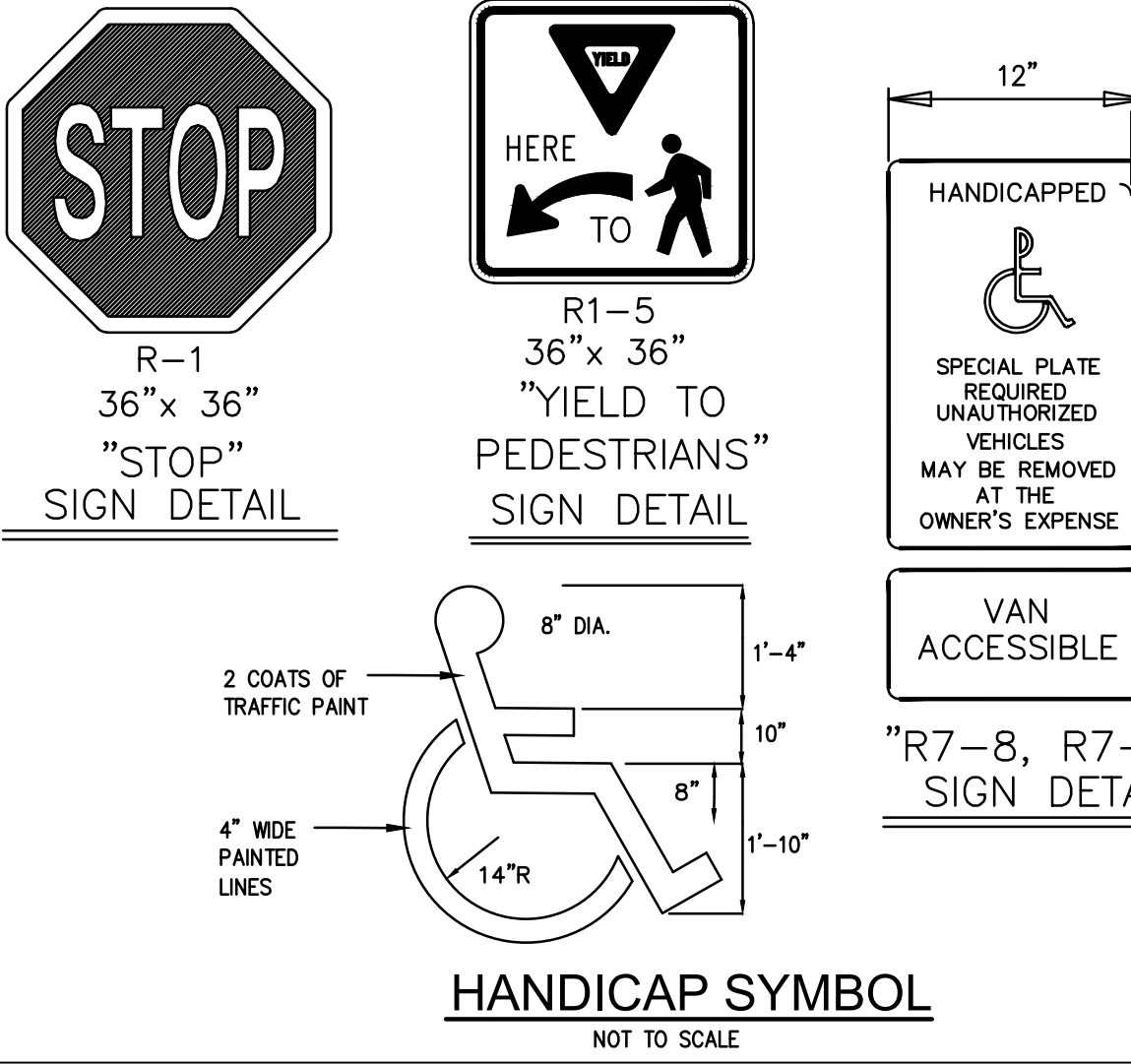
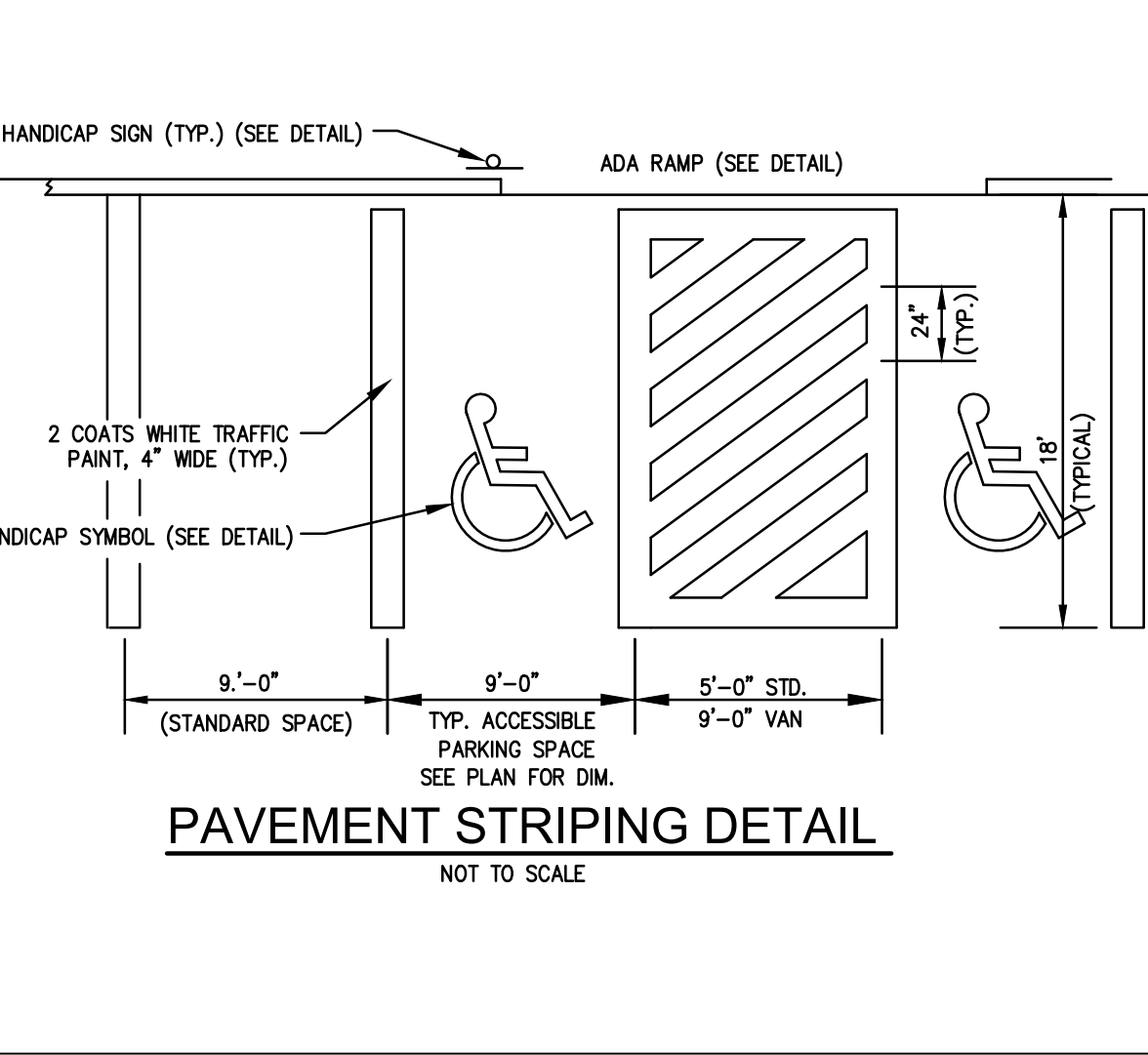
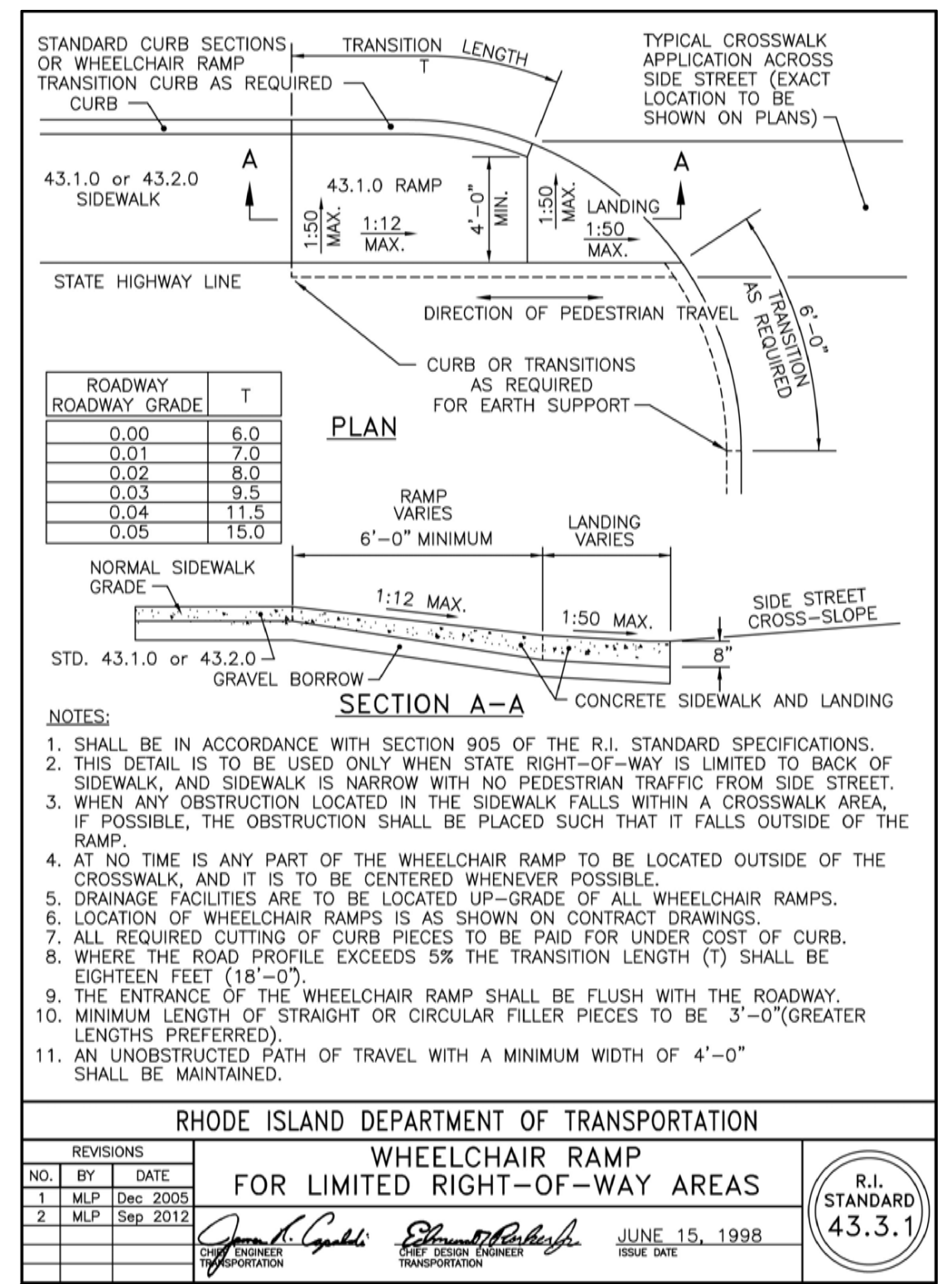
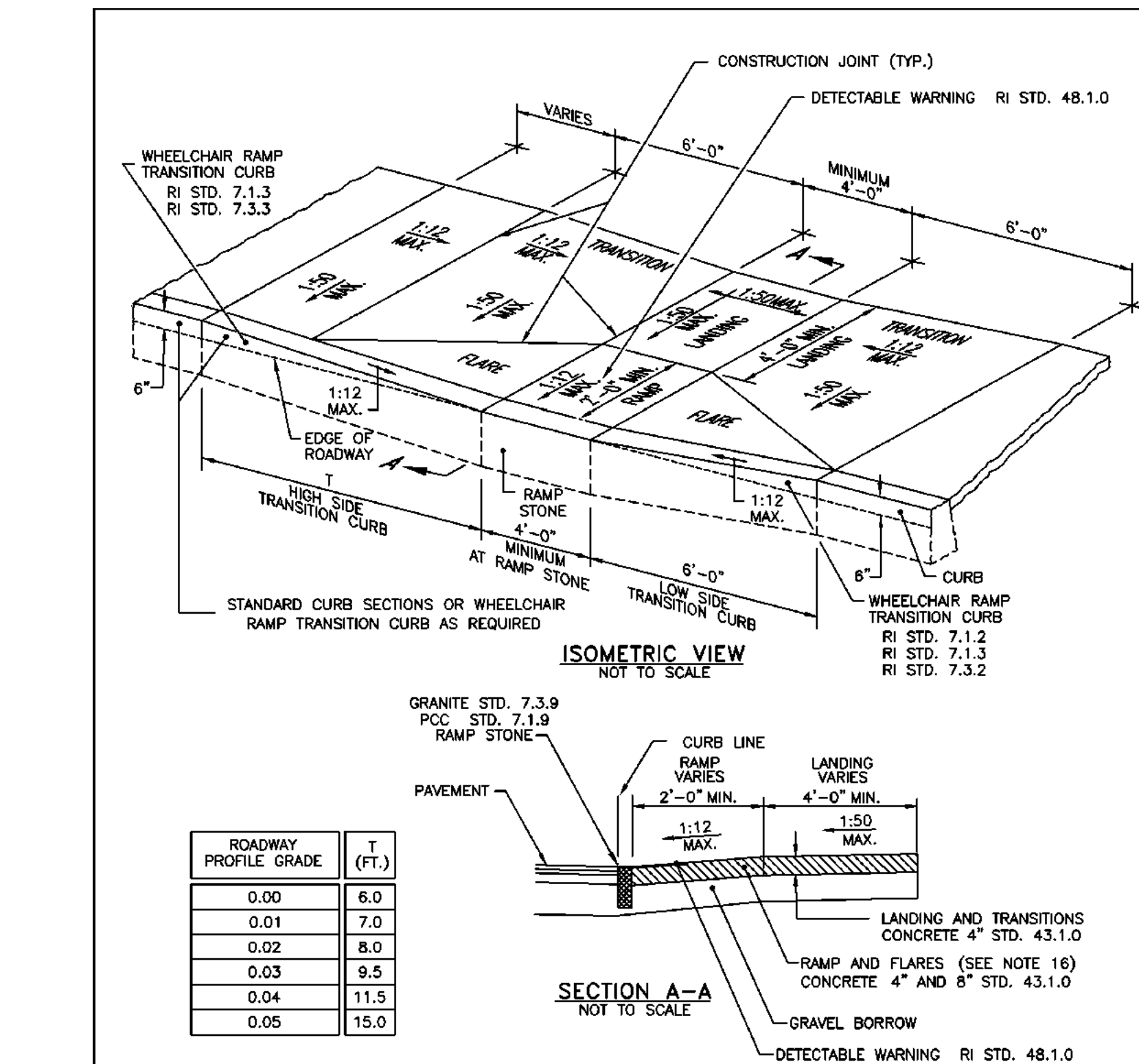
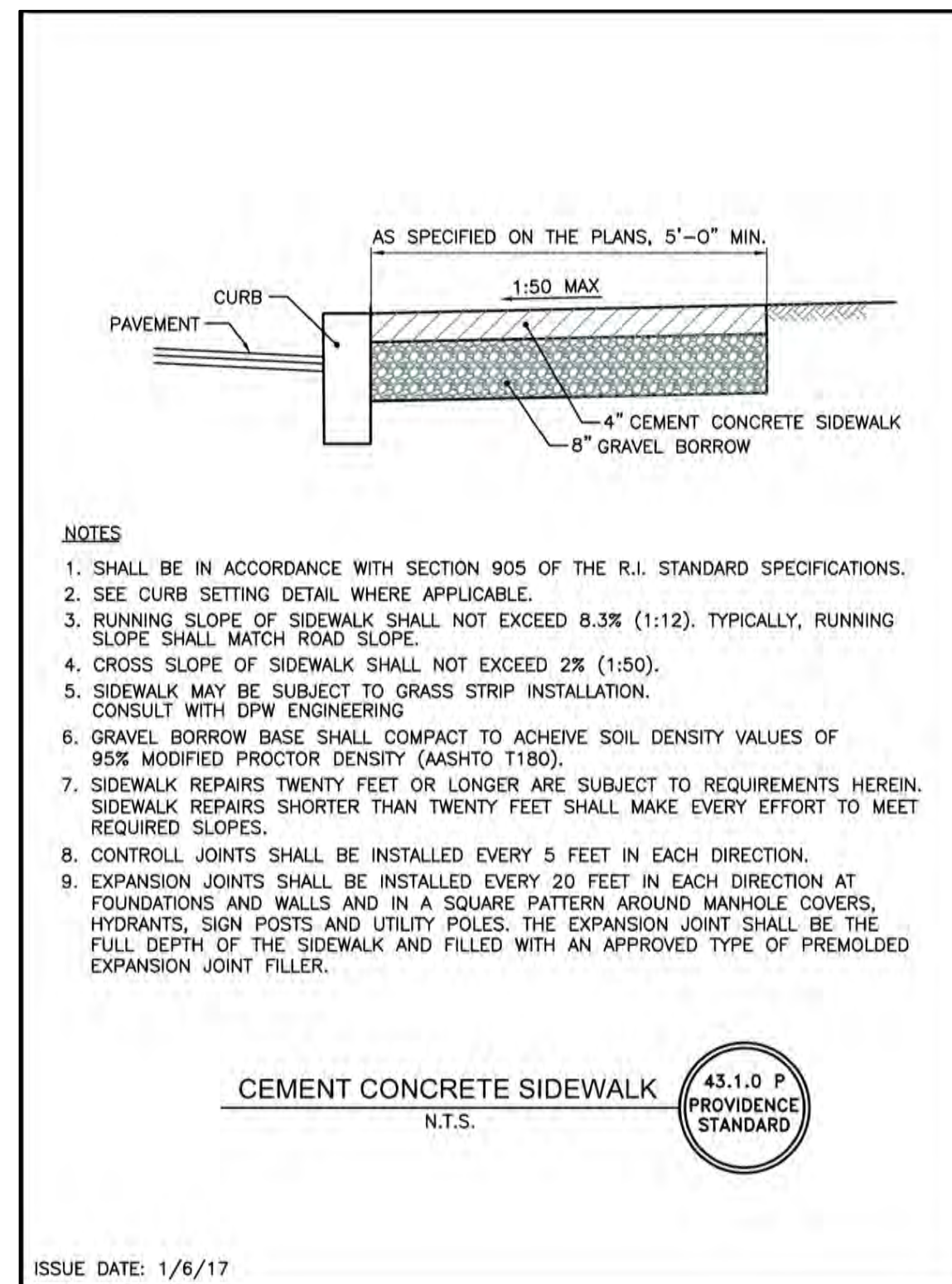
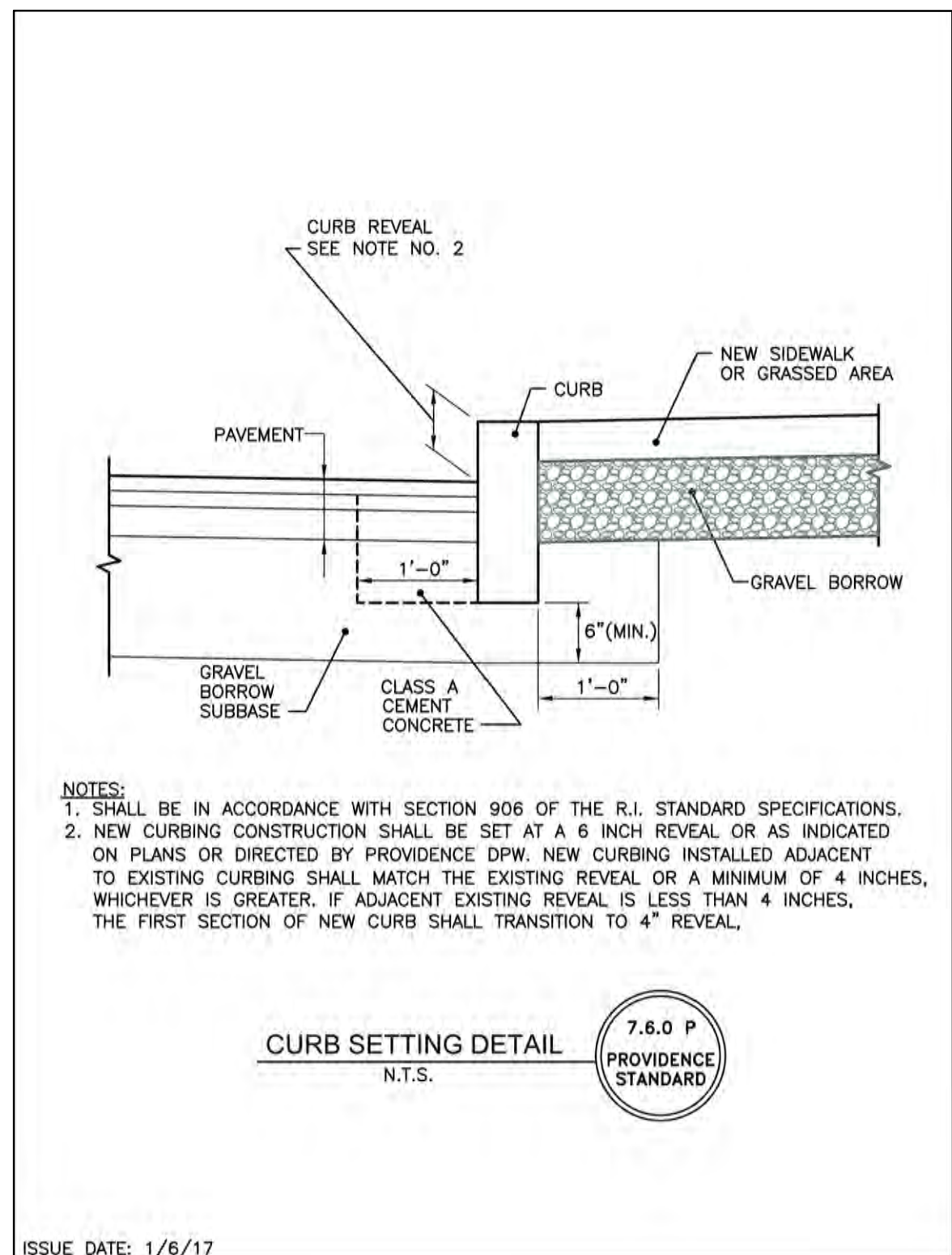
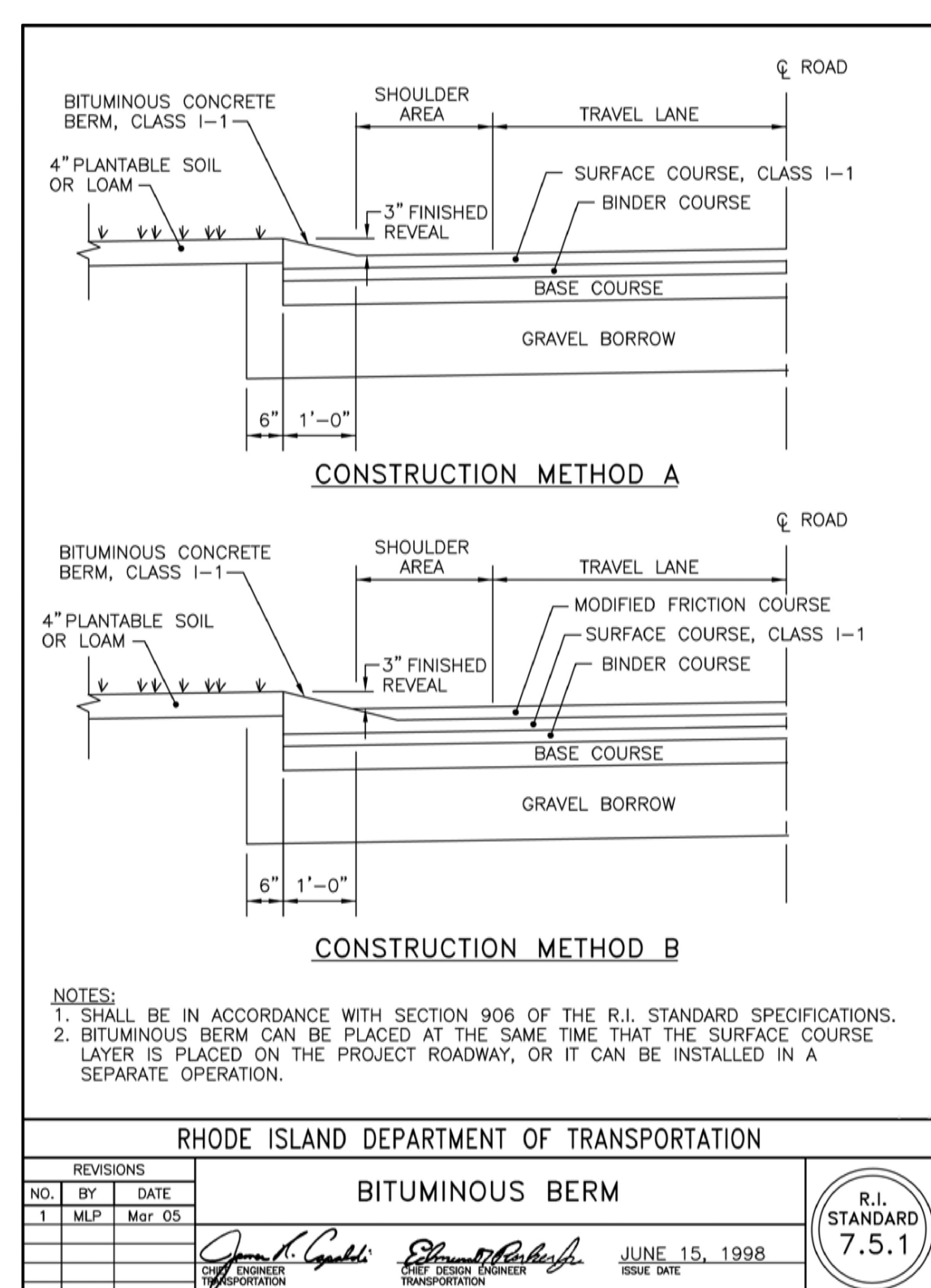
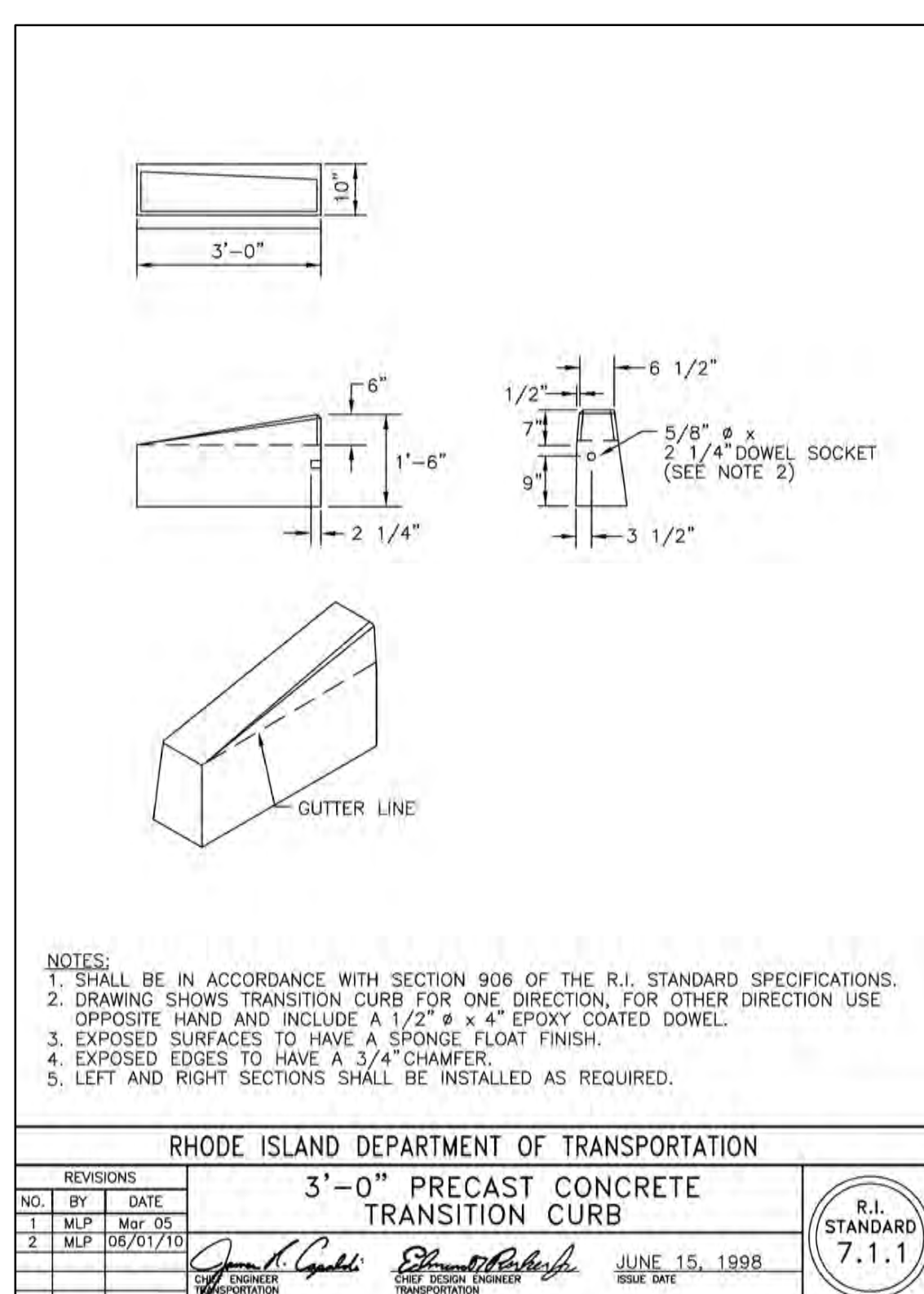
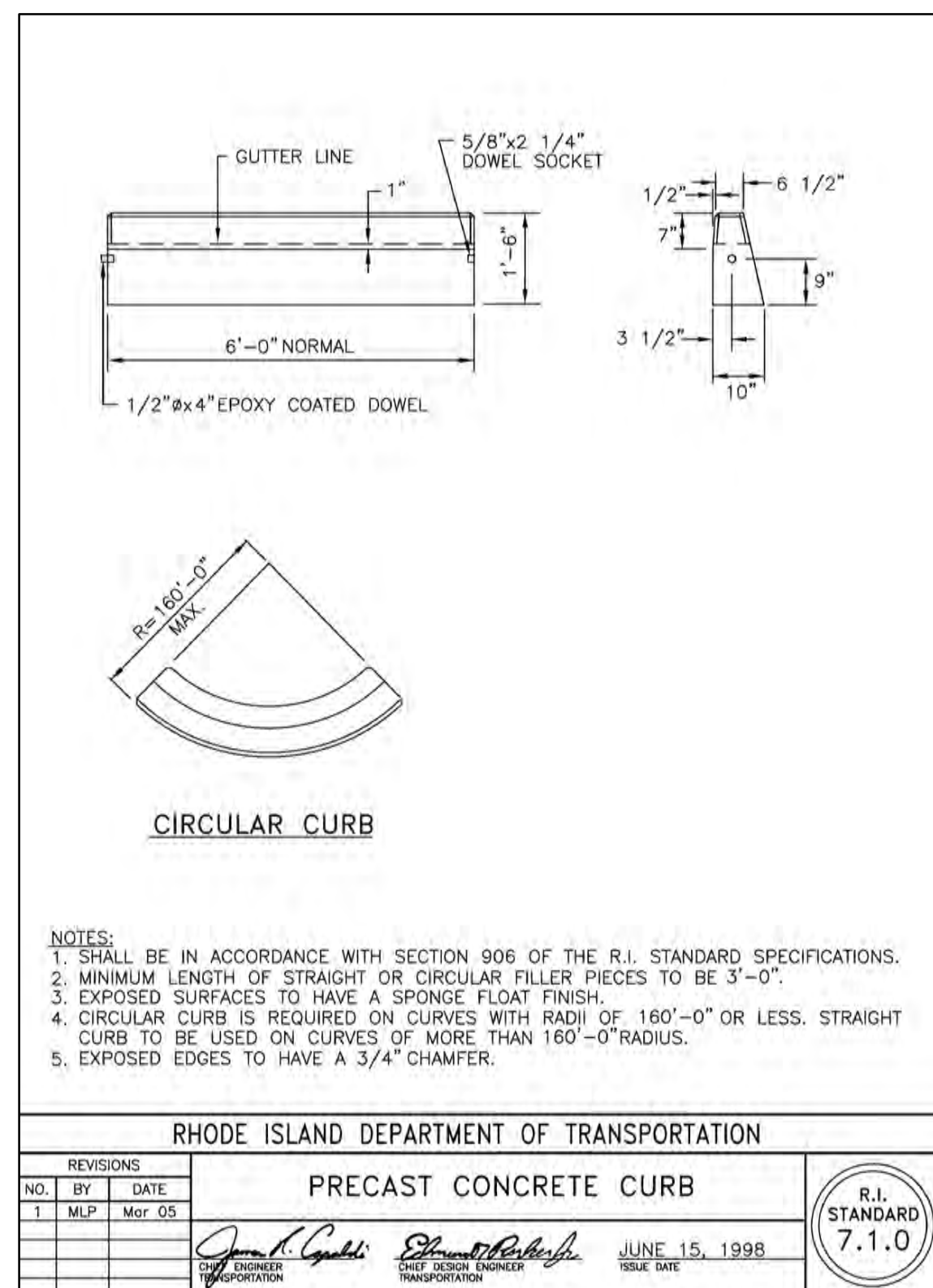
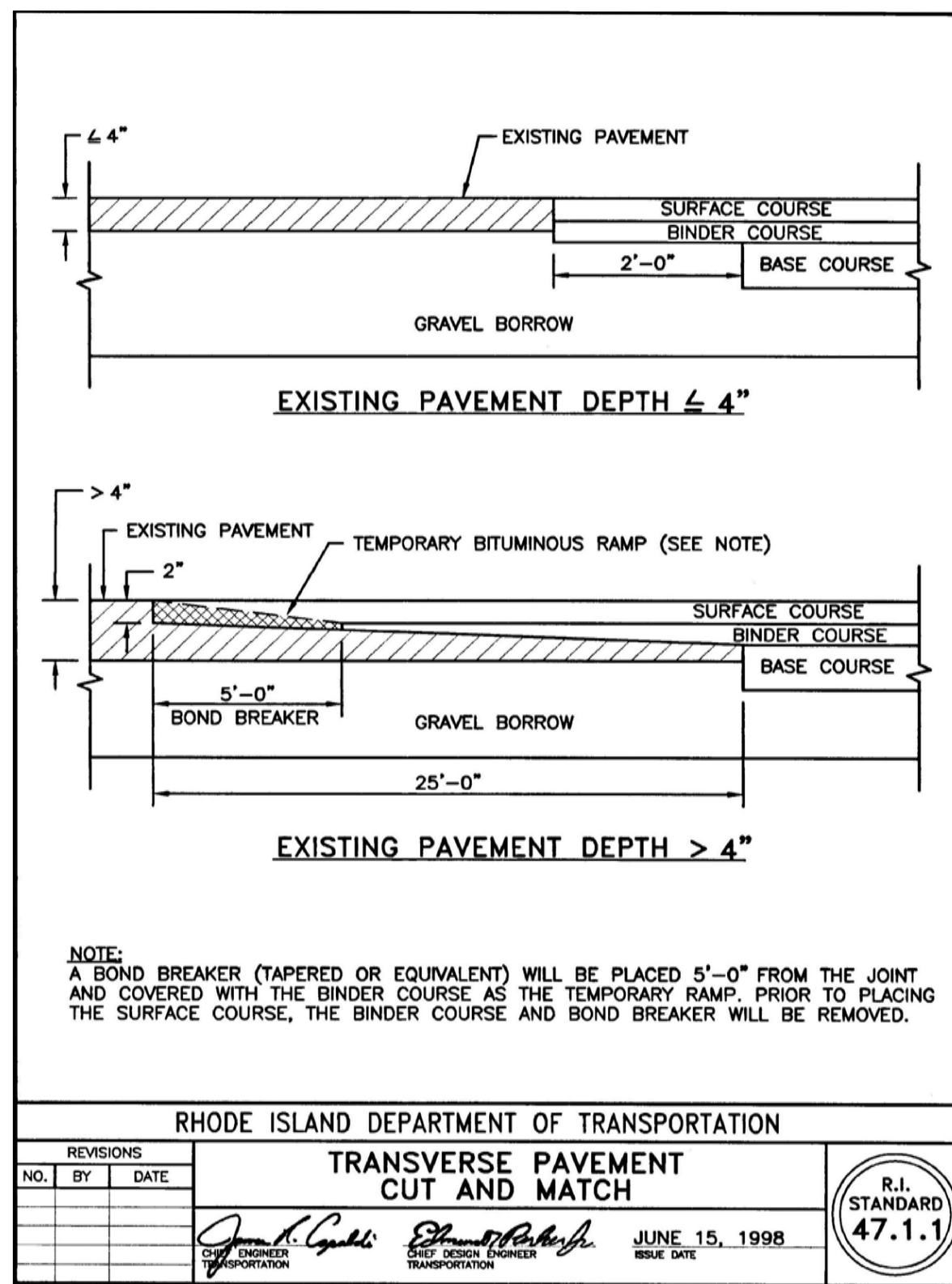
Issued for Bid, April 18, 2024

SHEET TITLE
SOIL EROSION & SEDIMENT CONTROL PLAN

DRAWN BY: KYY JOB NUMBER: 7213-00
CHECKED BY: SSH DATE: 06/13/2019

C-7.0

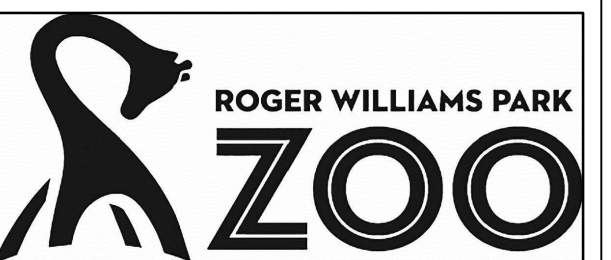
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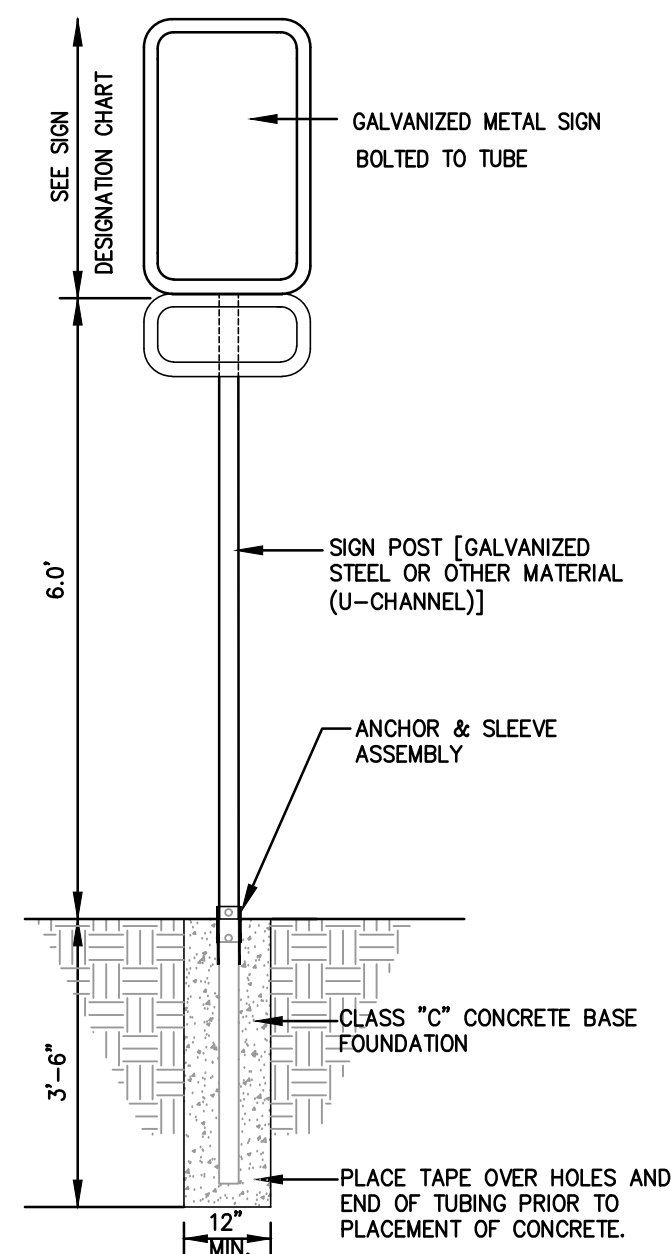
Revision Schedule	
Revision Number	Revision Date

Issued for Bid, April 18, 2024

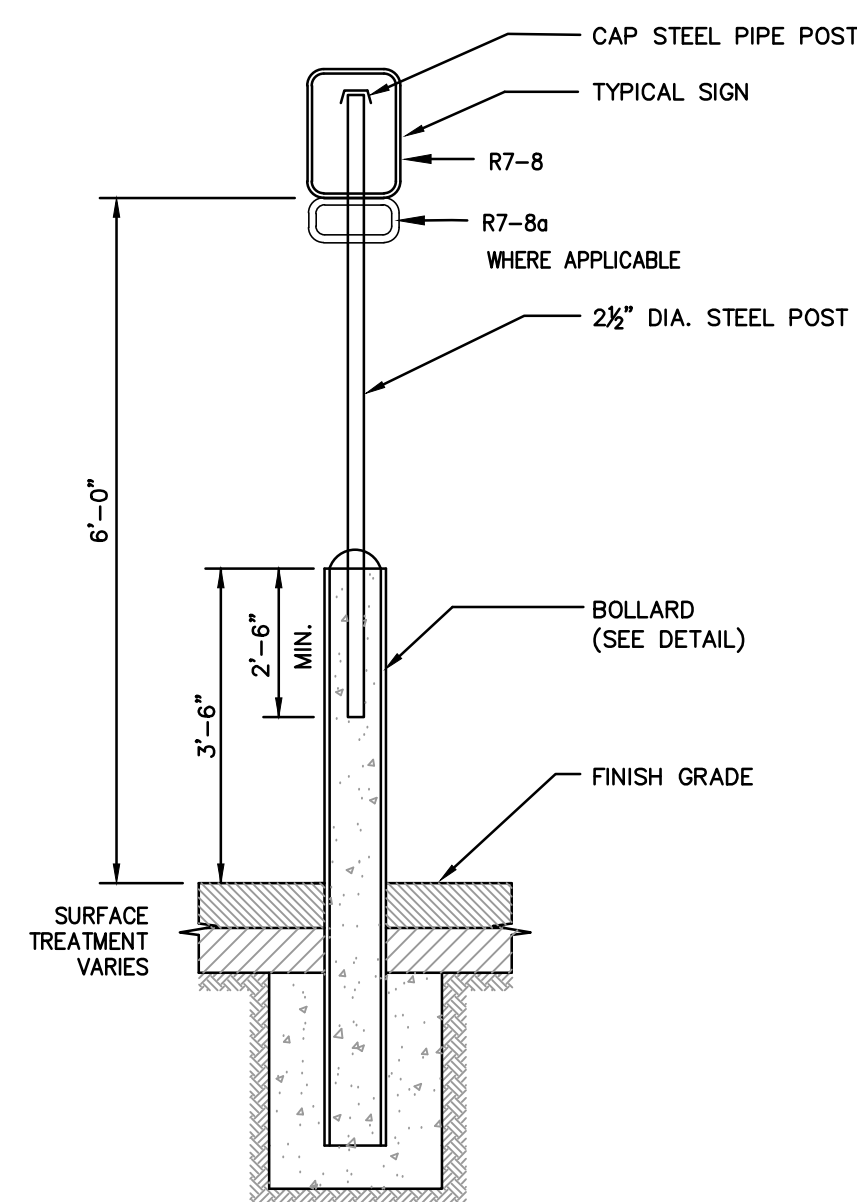
SHEET TITLE
CONSTRUCTION DETAILS-1

DRAWN BY: KYY JOB NUMBER: 7213-00
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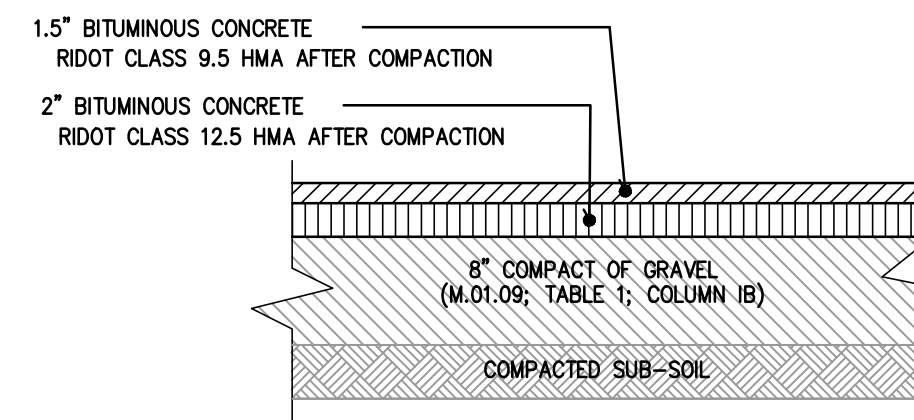
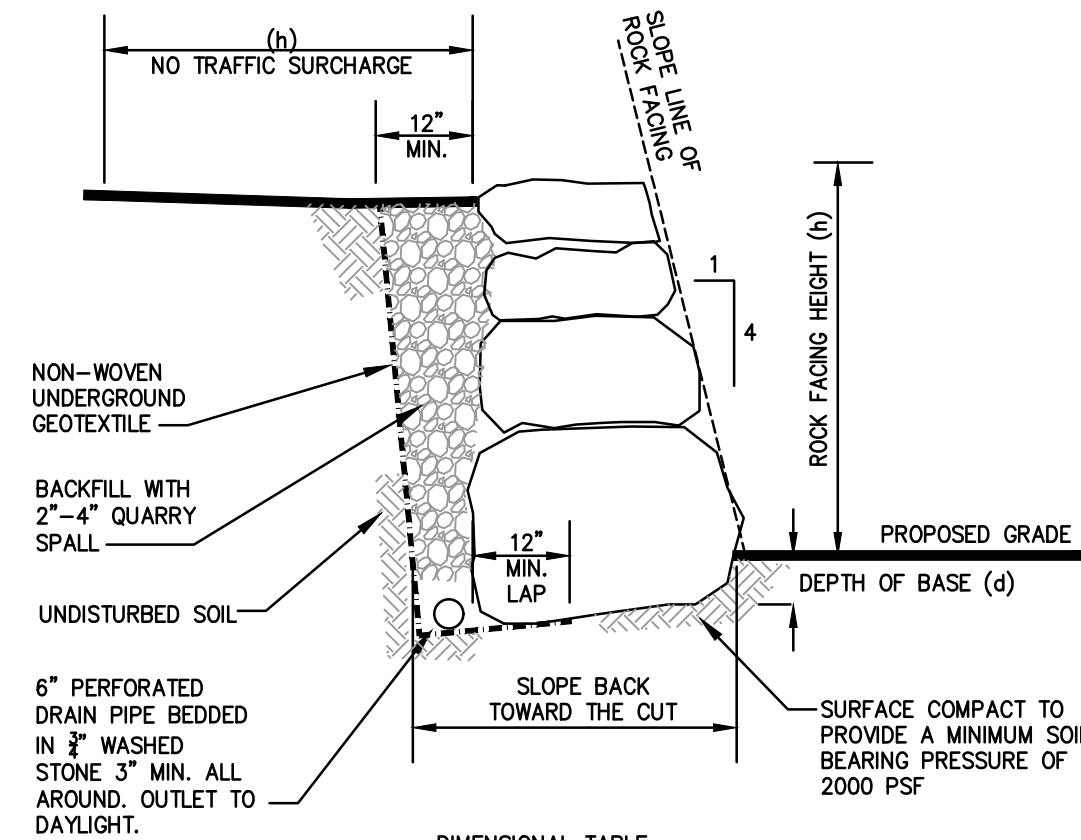
C-8.0



SIGNAGE DETAIL
NOT TO SCALE

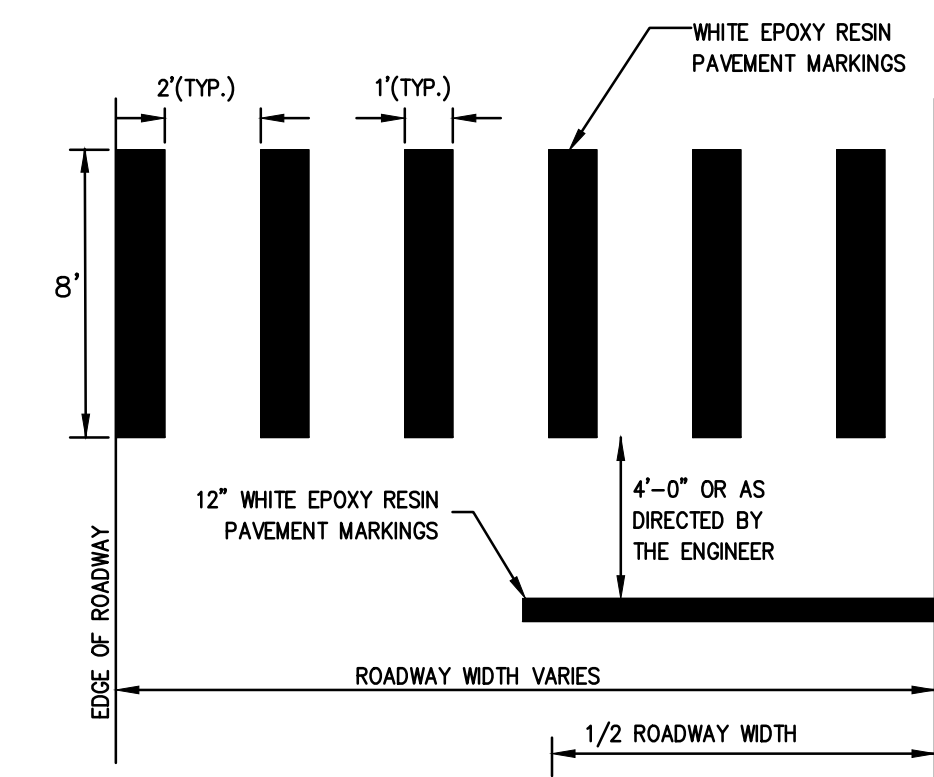


BOLLARD MOUNTED SIGN
NOT TO SCALE



1. SUB-SOIL FILLS SHALL BE COMPRISED OF SELECT GRANULAR MATERIALS, CLASSIFIED AS SM OR MORE GRANULAR BY ASTM D 2487 AND PLACED IN 12-INCH MAXIMUM LIFTS AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D689.
2. WITHIN SUBSOIL FILL AREAS, THE CONTRACTOR SHALL PROVIDE AT LEAST ONE COMPACTION TEST PER 100 LINEAR FEET, OR FRACTION THEREOF, OF EACH LIFT OF BACKFILL FOR ROADS. COMPACTION TESTING SHALL BE PERFORMED BY A RIDOT VALIDATED COMMERCIAL TESTING LABORATORY.

STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT SECTION (BCP)
NOT TO SCALE



CROSSWALK AND STOP BAR DETAIL
NOT TO SCALE

DIMENSIONAL TABLE

(h)	(d)	SIZE (BASE)	SIZE (TOP)
2 FEET	3 INCHES	2-MAN	1-MAN
4 FEET	6 INCHES	3-MAN	2-MAN
6 FEET	9 INCHES	4-MAN	2-MAN
8 FEET	12 INCHES	5-MAN	2-MAN

NOTES:

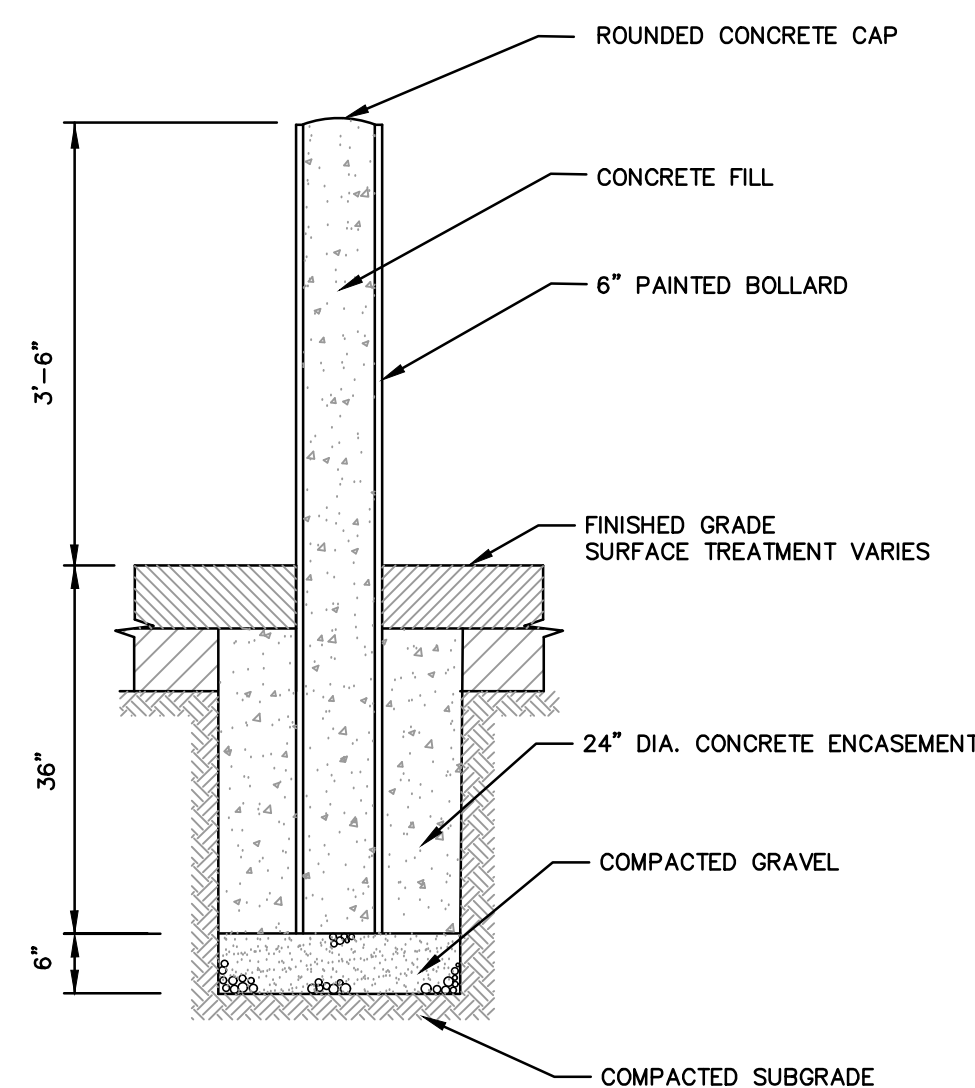
1. USE THE FOLLOWING TABLE WHEN REFERRING TO LARGER SIZE ROCKS AND BOULDERS.

ROCK SIZE	ROCK WEIGHT	AVG. DIMENSIONS
ONE MAN	50 - 200LBS	12" - 18"
TWO MAN	200 - 700LBS	18" - 28"
THREE MAN	700 - 2,000LBS	28" - 36"
FOUR MAN	2,000 - 4,000LBS	36" - 48"
FIVE MAN	4,000 - 6,000LBS	48" - 54"

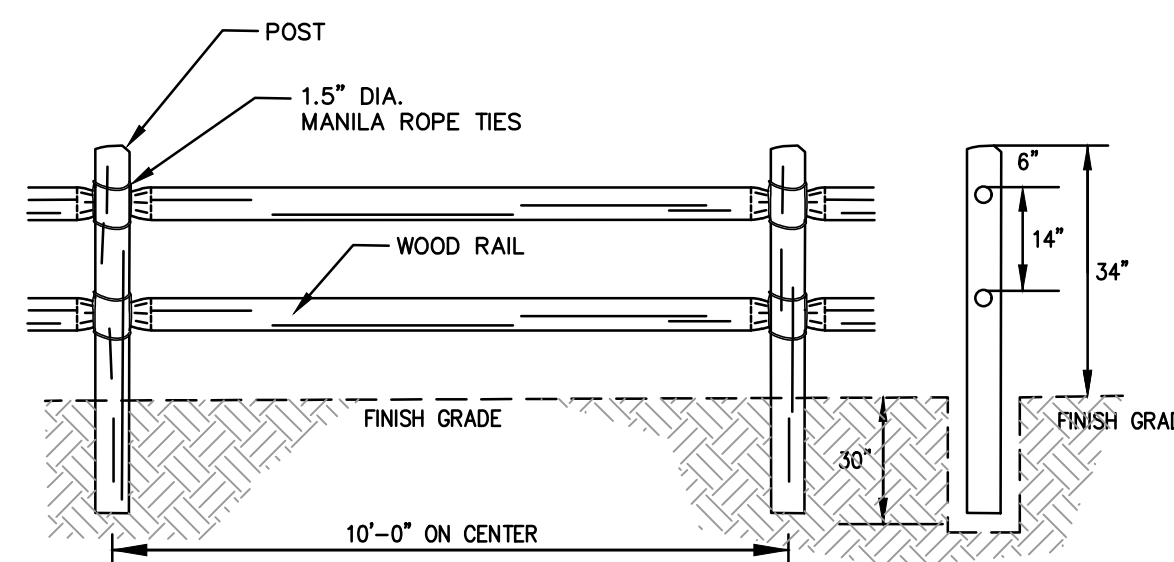
2. FOR HEIGHTS LESS THAN OR EQUAL TO 3', PERFORATED DRAIN MAY BE ELIMINATED WHERE FREE DRAINING BACKFILL PROVIDES FOR WATER FLOW THROUGH WALL.

BOULDER WALL

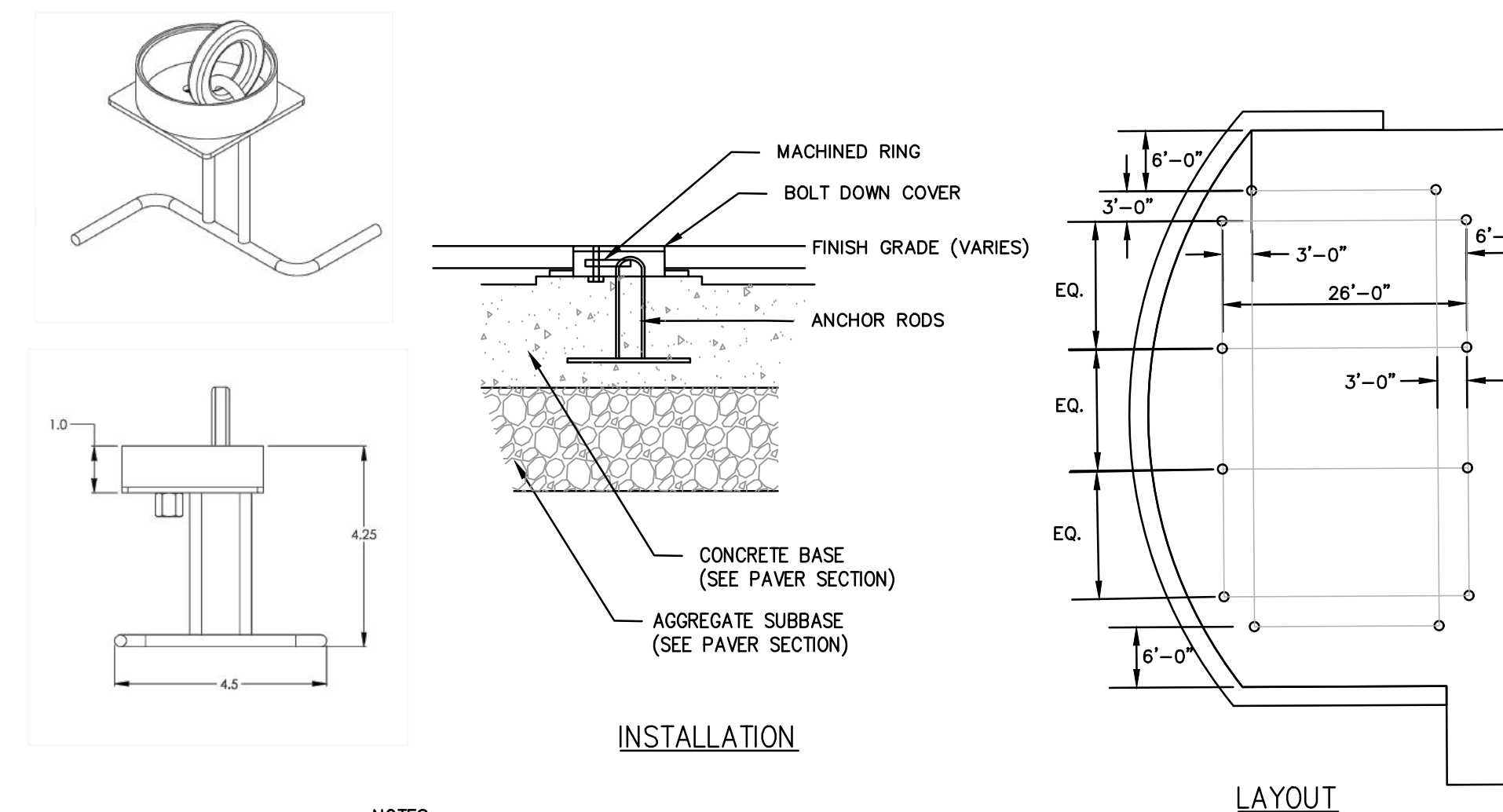
NOT TO SCALE



BOLLARD
NOT TO SCALE



WOOD RAIL FENCE
NOT TO SCALE



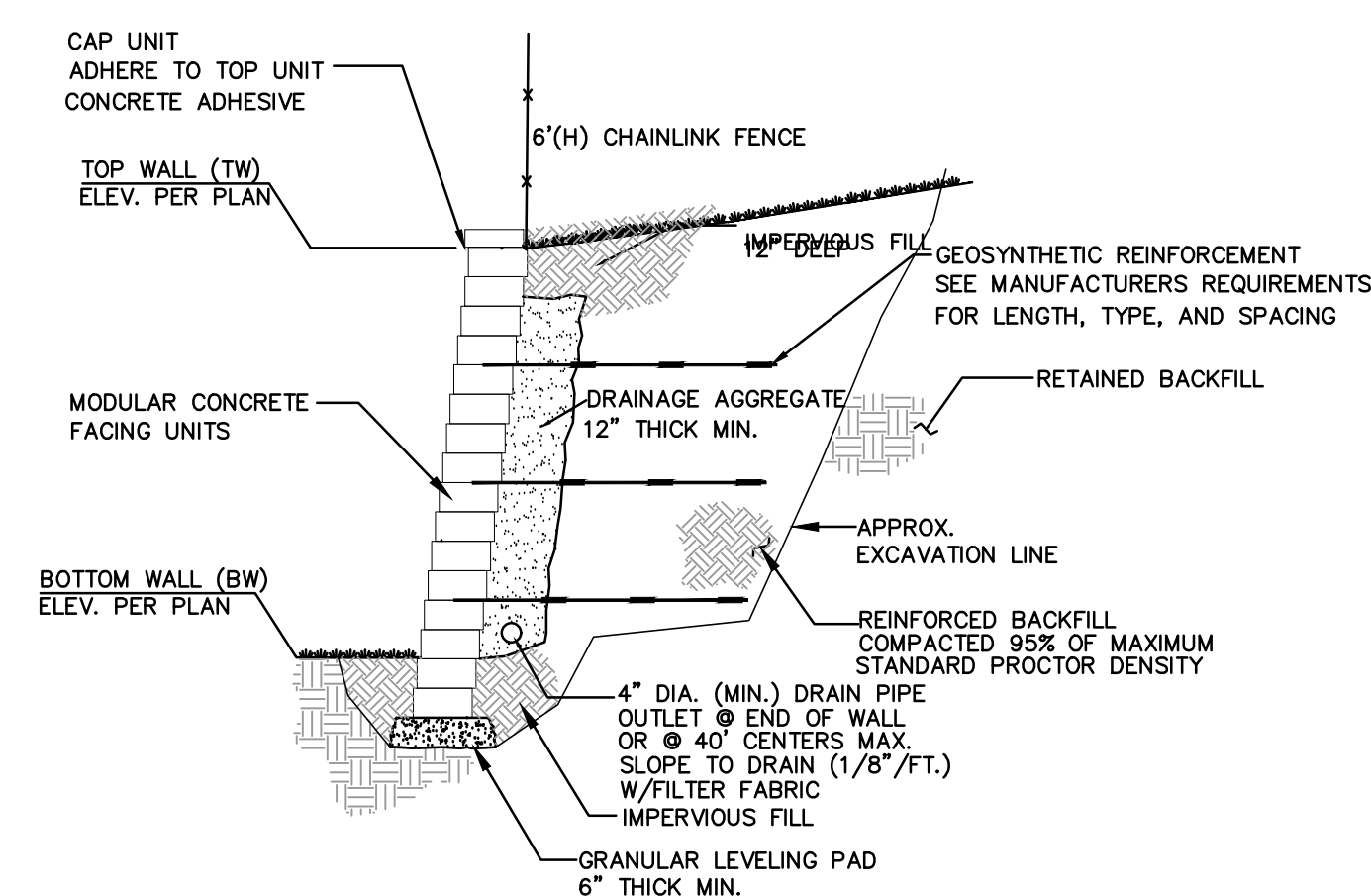
INSTALLATION

LAYOUT

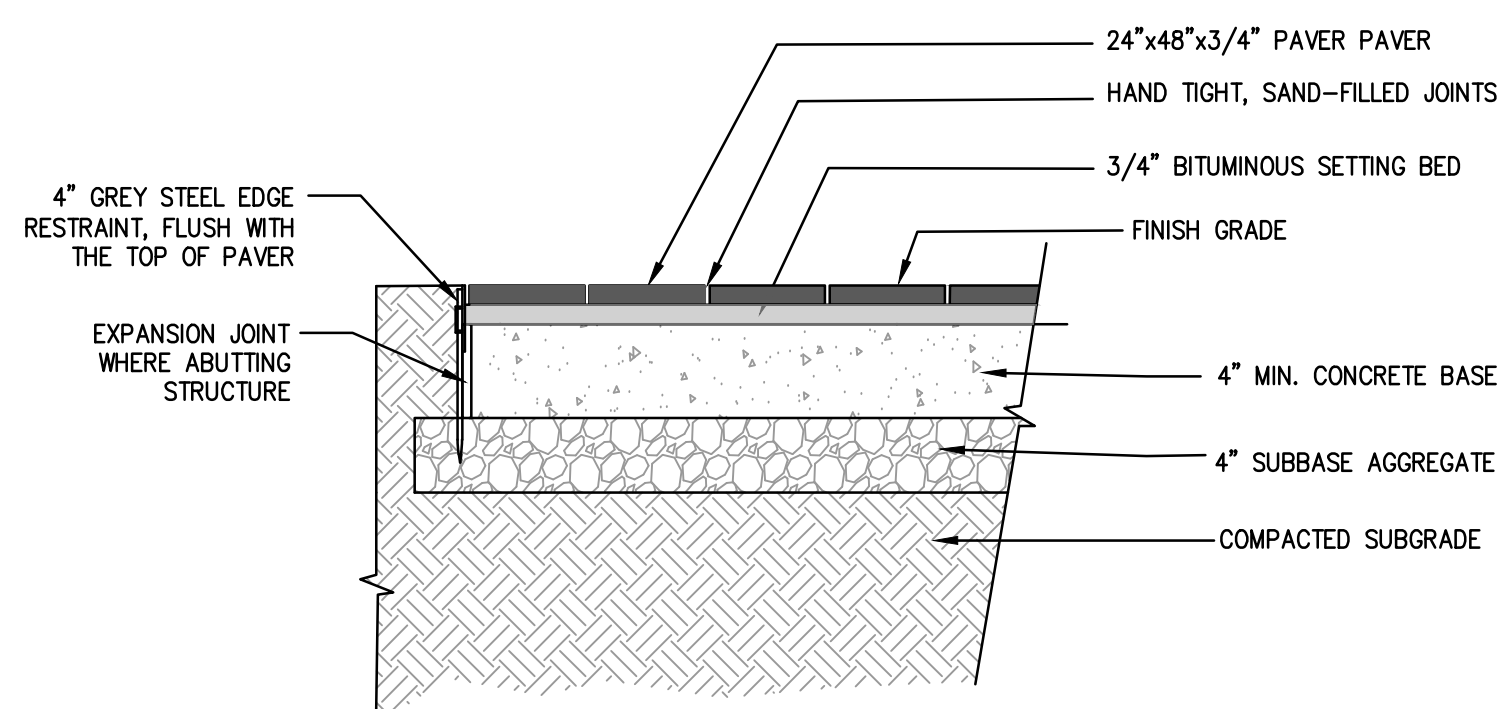
- NOTES:**
1. TENT ANCHORS SHALL BE MODEL ANC204, AS MANUFACTURED BY ANCHOR MANUFACTURING, OR APPROVED EQUAL CAPABLE OF RESTRAINING 2000# LOAD.

TENT ANCHOR

NOT TO SCALE



MODULAR BLOCK WALL DETAIL
NOT TO SCALE



PAVER SECTION
NOT TO SCALE

NOTES:

1. PORCELAIN PAVERS SHALL BE HANOVER ARCHITECTURAL PRODUCTS, 24"x48"x3/4" PORCELAIN PAVER-URBAN COLLECTION, COLOR: SANTA FE, OR APPROVED EQUAL.
2. PAVERS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
3. INSTALL 2" WEEP HOLES IN CONCRETE BASE AT 48" O.C. AND FILL WITH STONE.
4. COORDINATE CONCRETE BASE INSTALLATION WITH TENT ANCHORS FOR CONCURRENT INSTALLATION.
5. PROTECT PAVER AREA AND AGGREGATES FROM CONSTRUCTION VEHICLE TRAFFIC.



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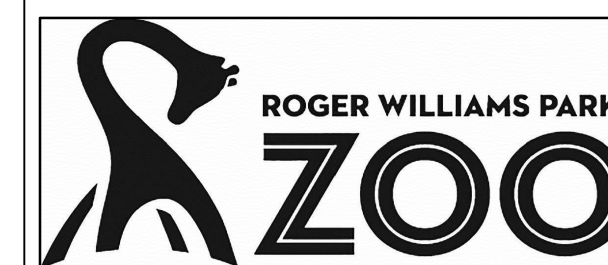
1085 Park Avenue tel 401.942.7970
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Consultant



GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
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Revision Schedule

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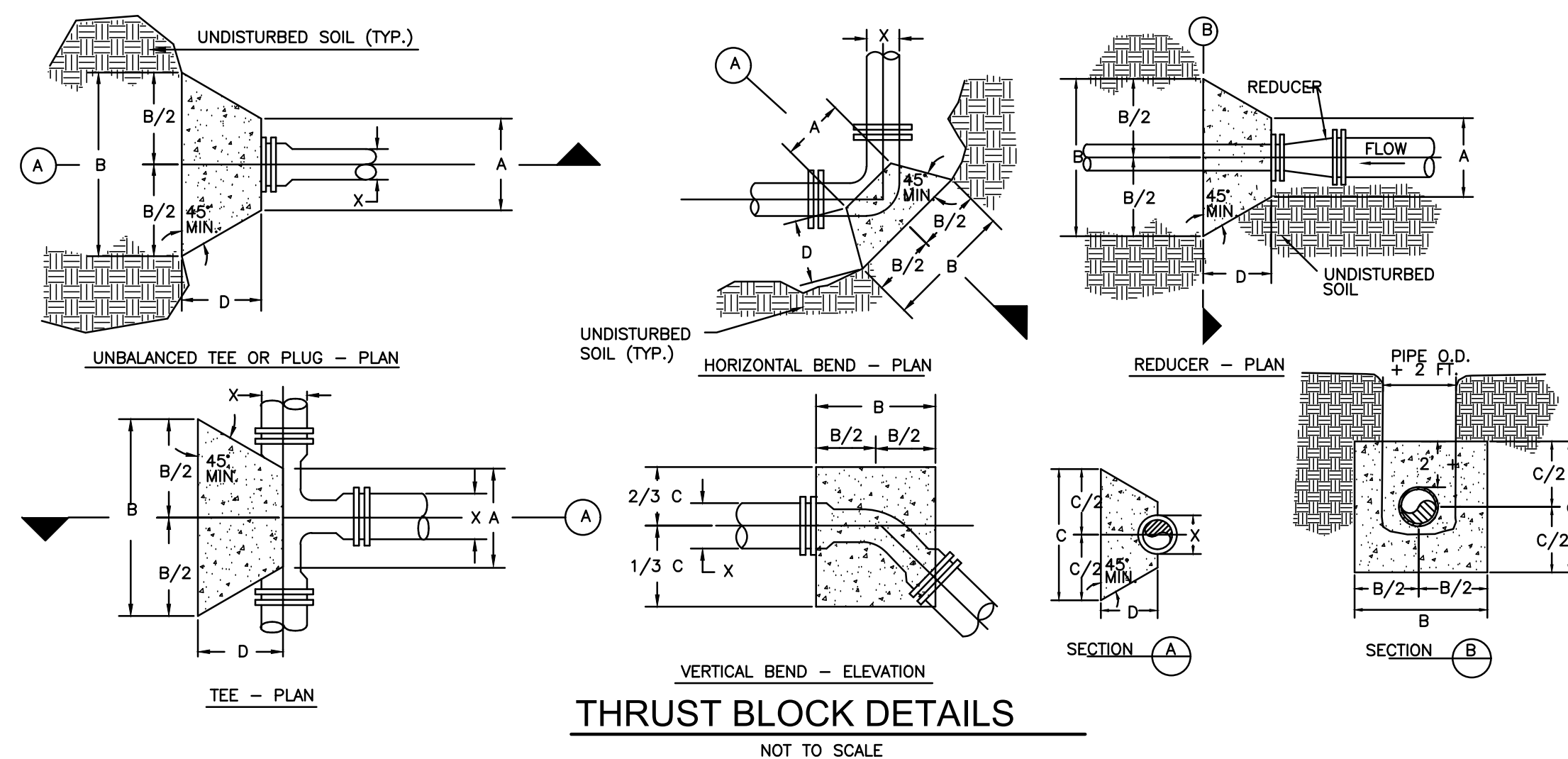
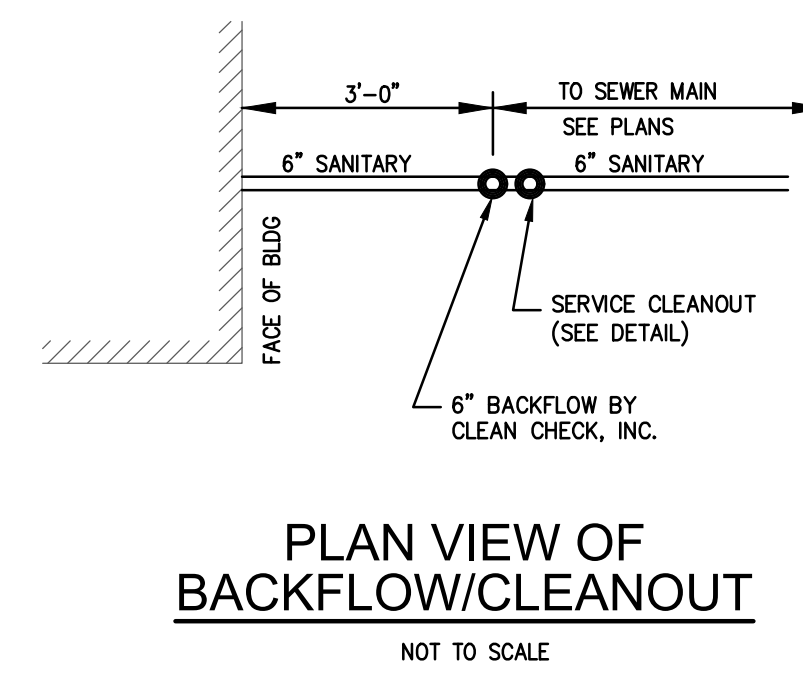
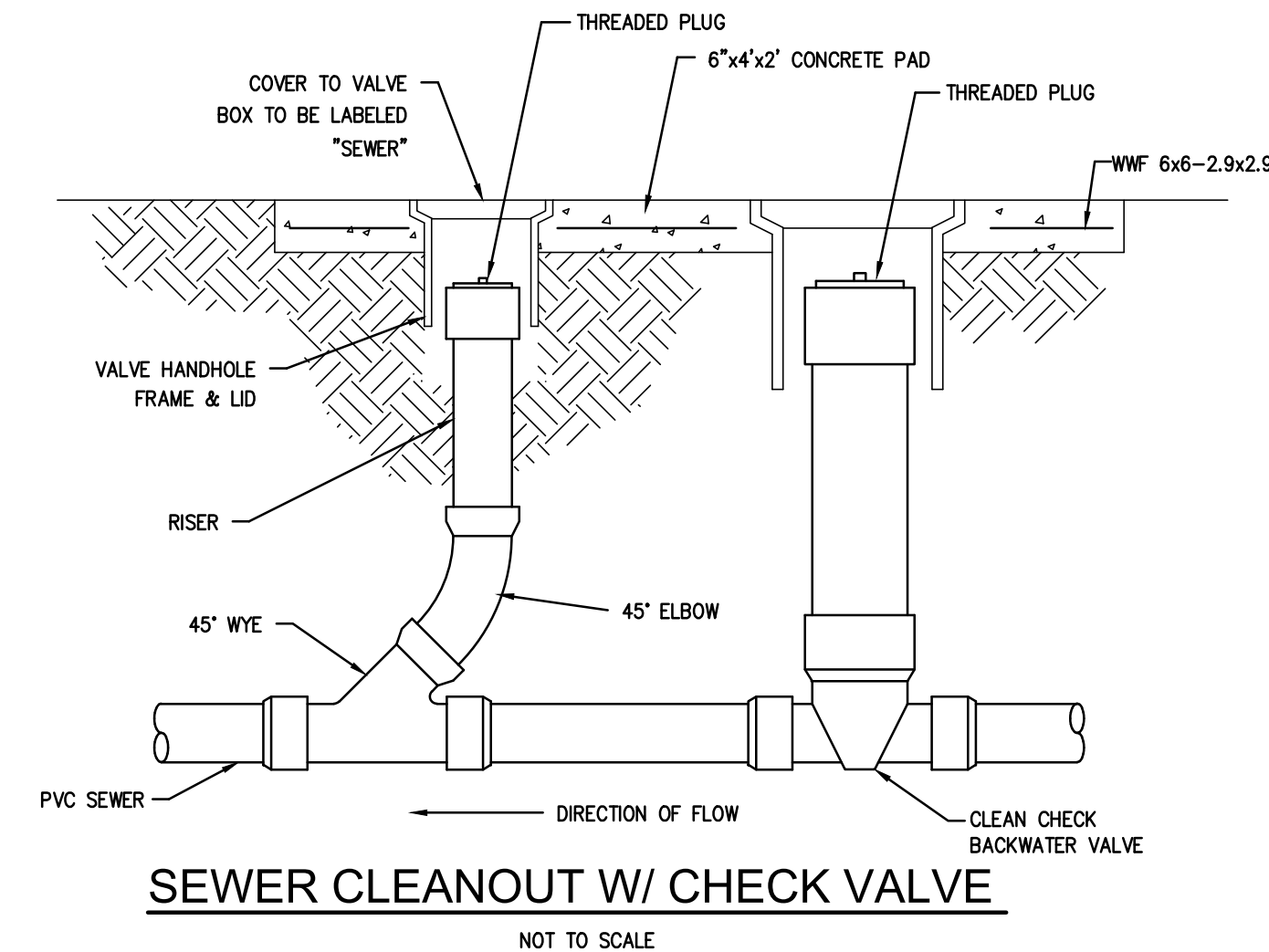
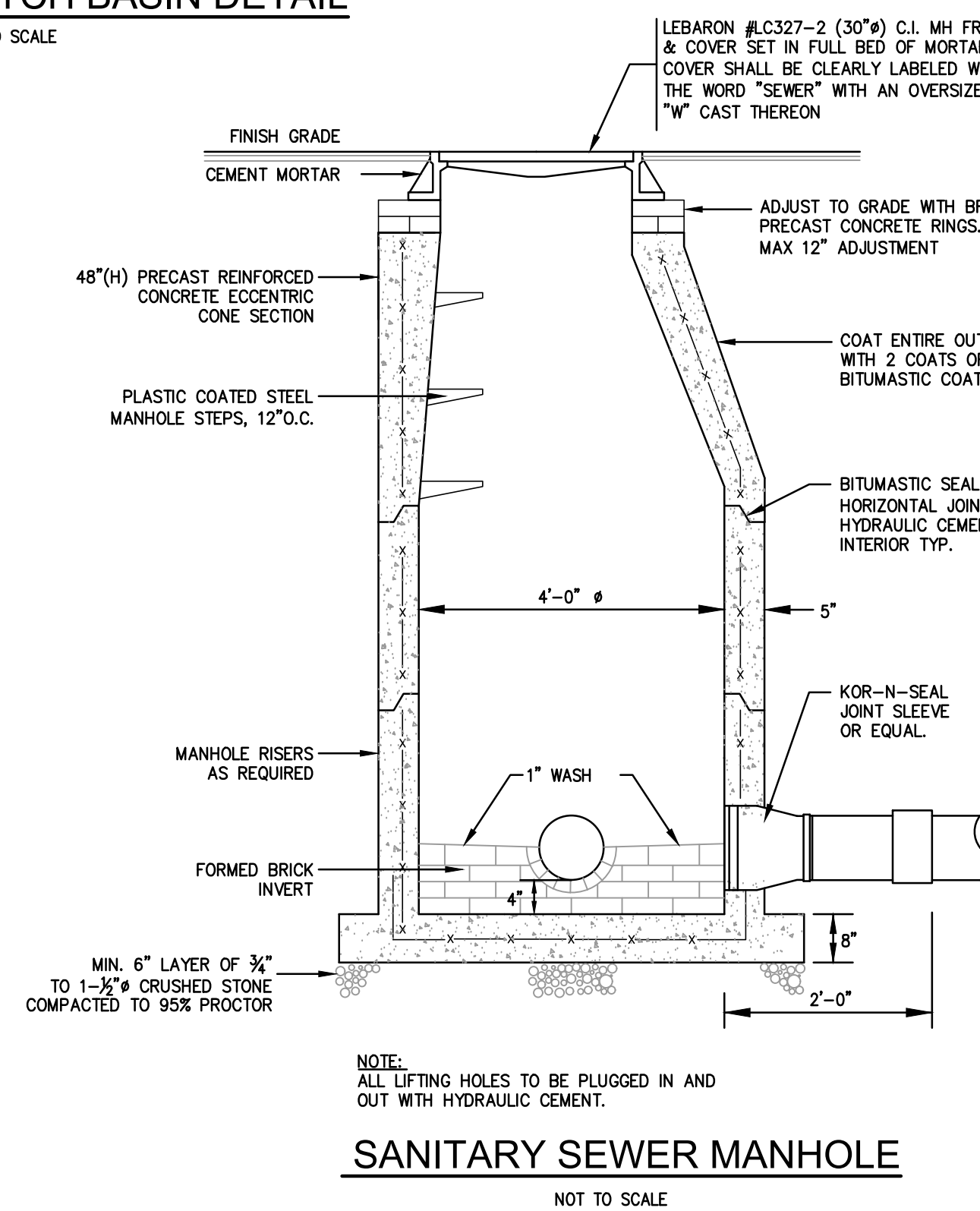
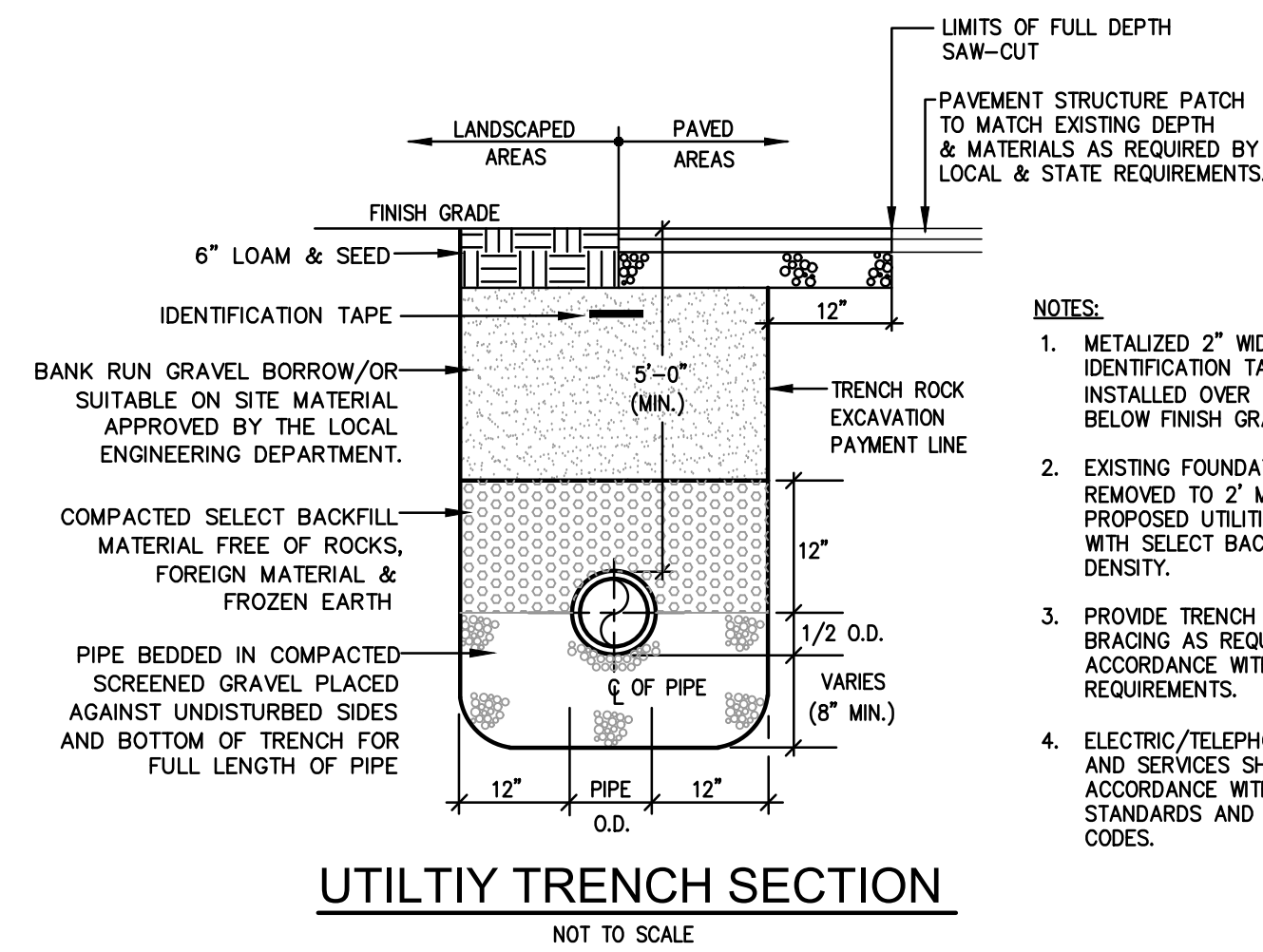
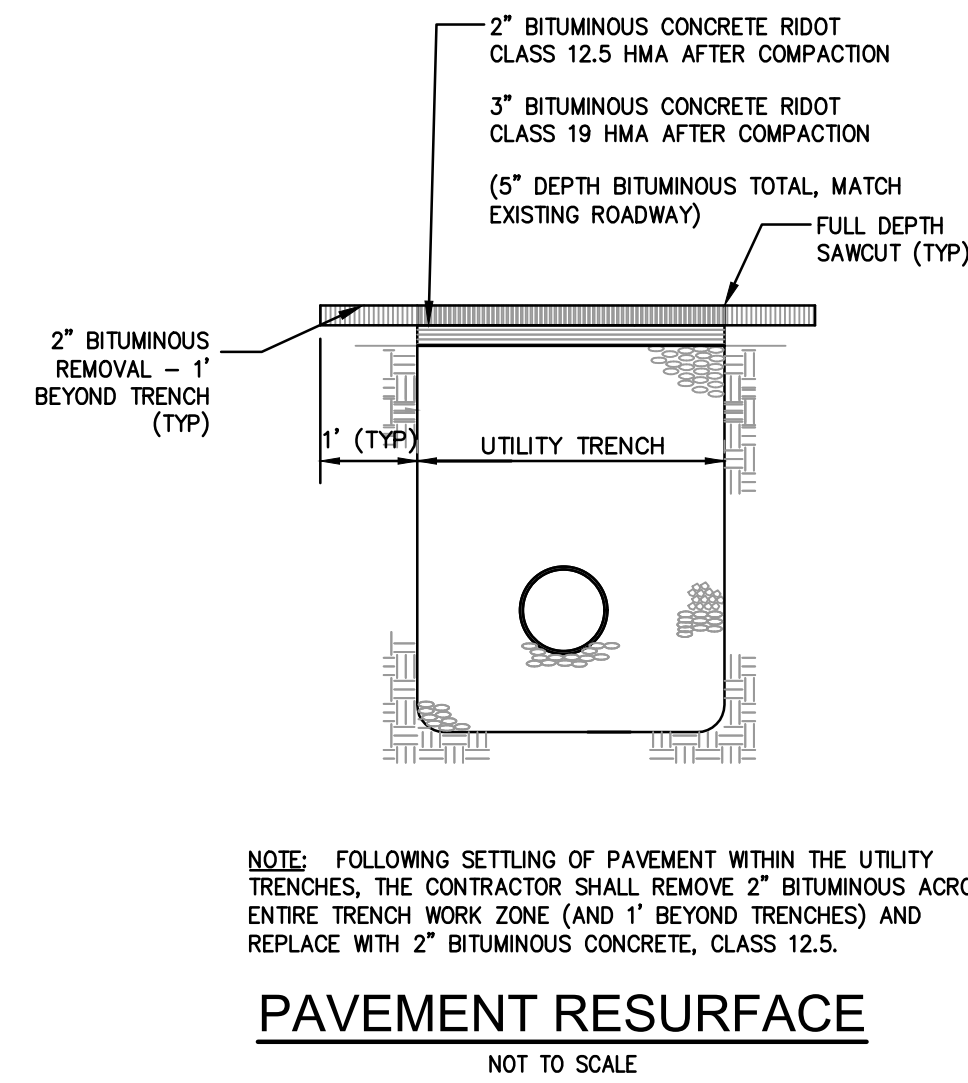
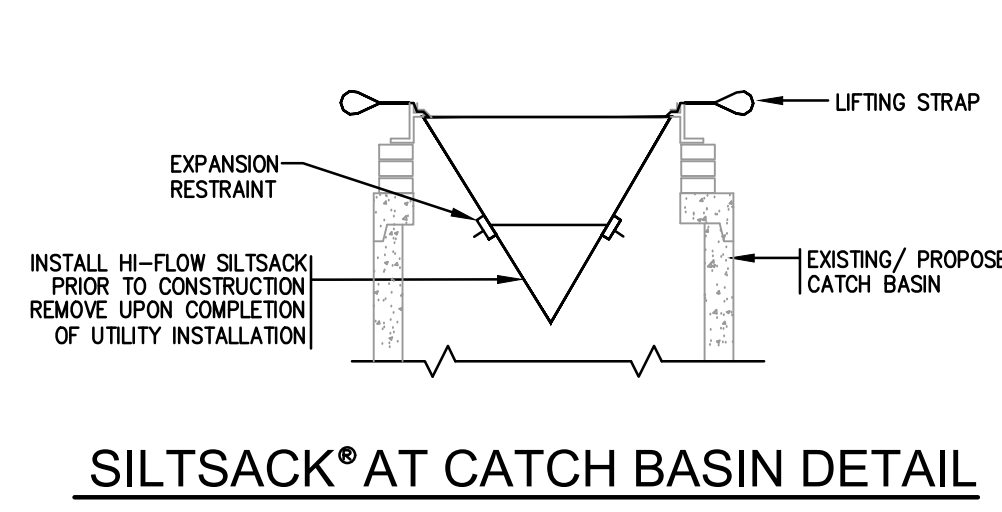
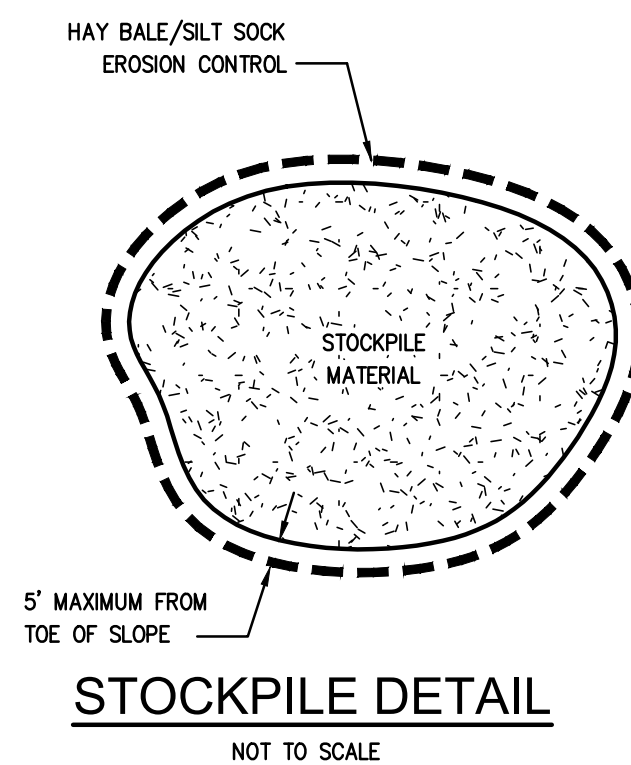
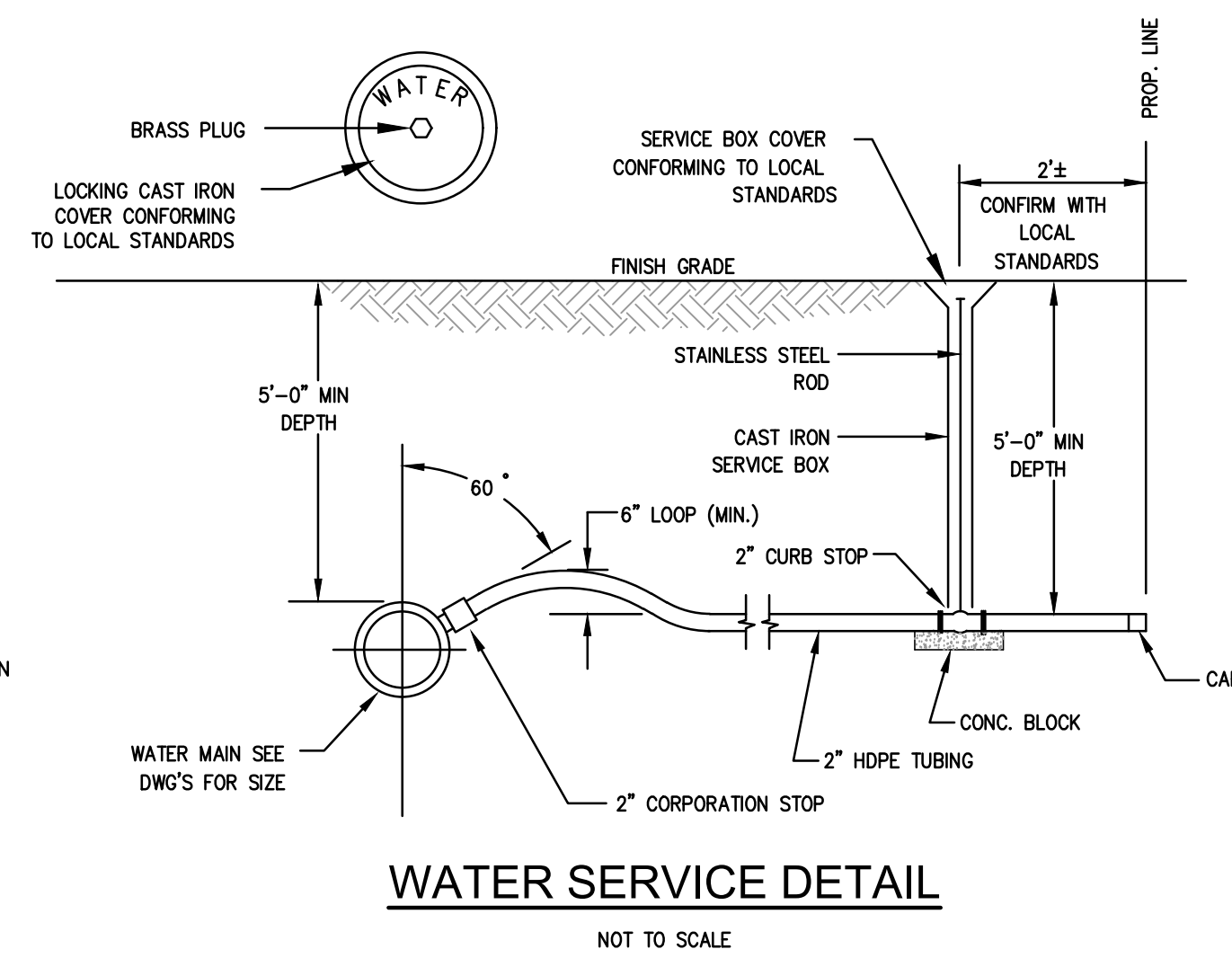
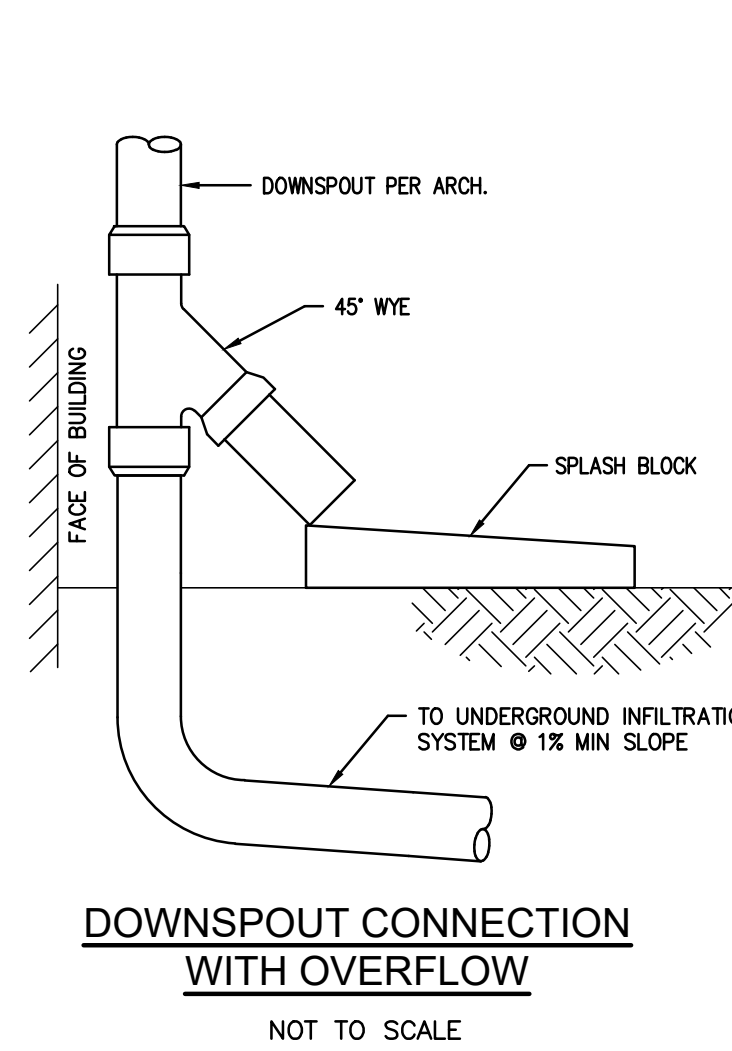
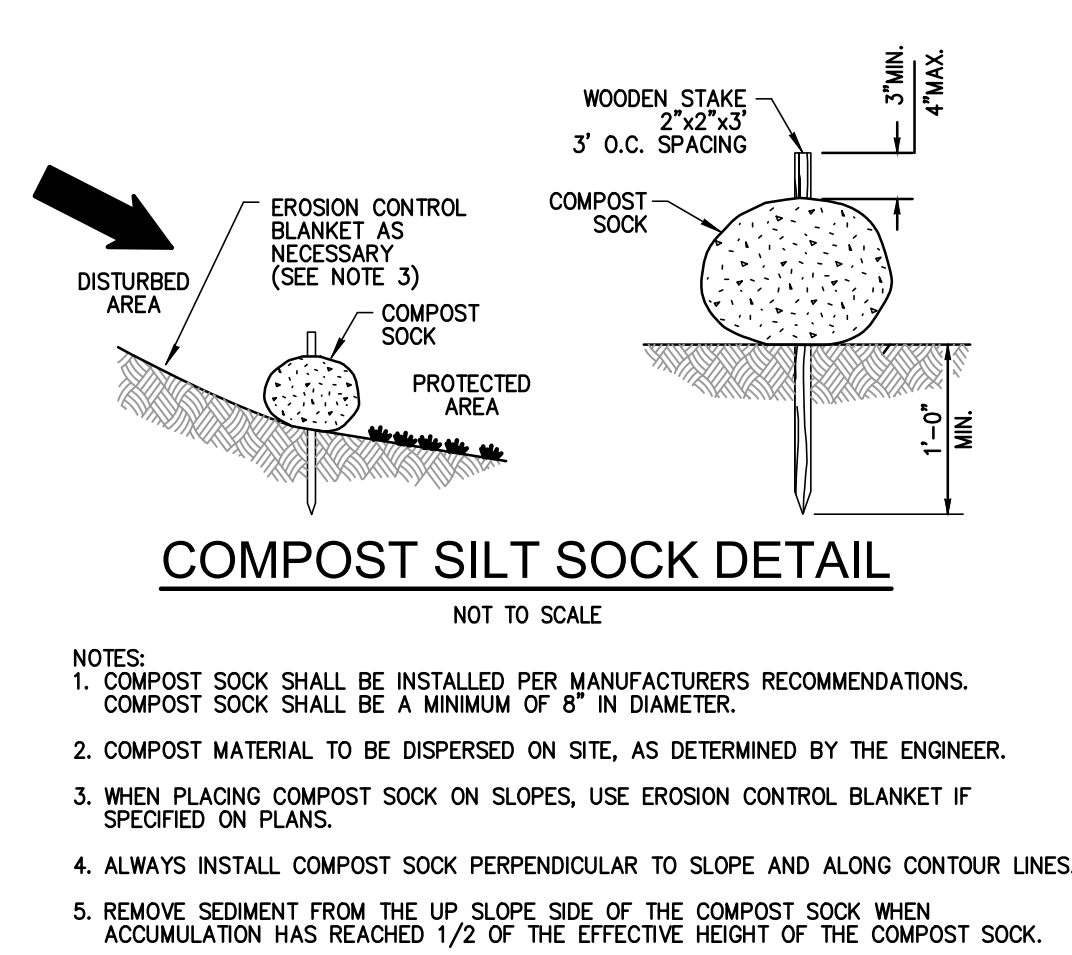
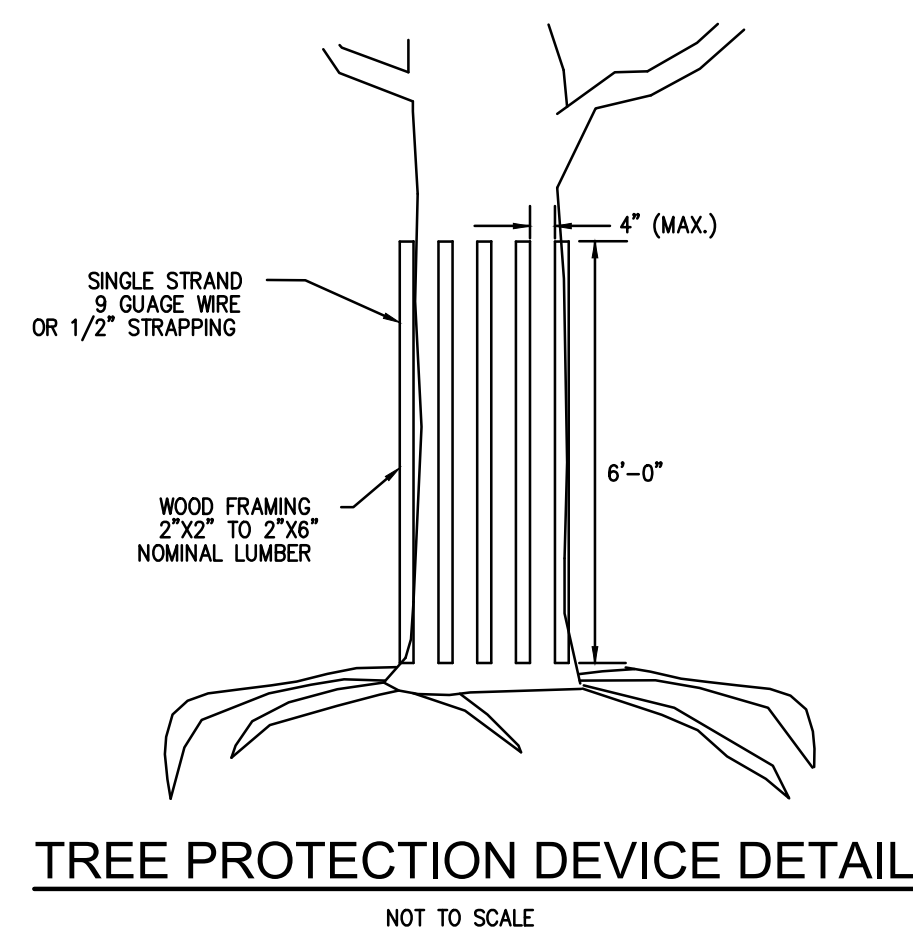
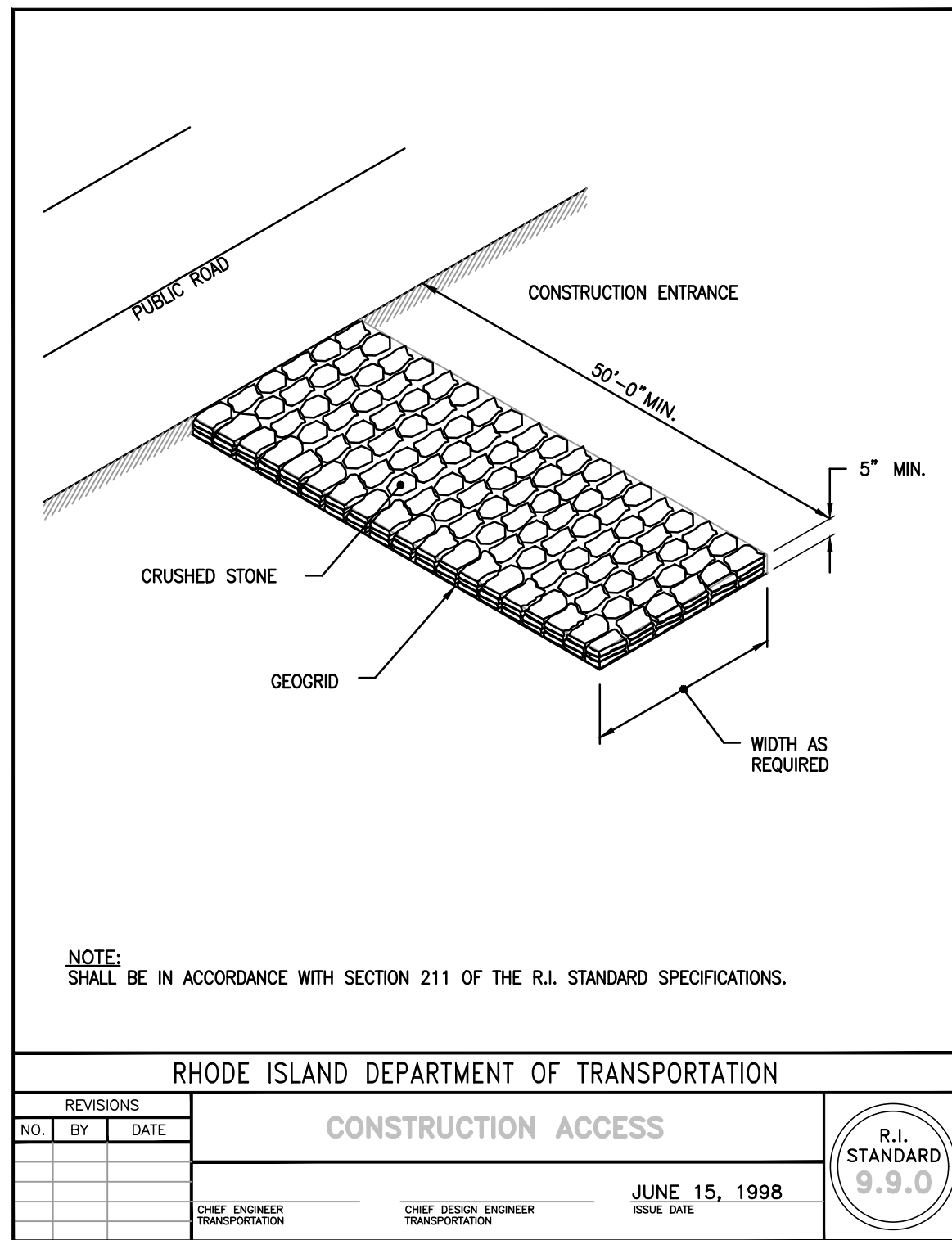
SHEET TITLE
CONSTRUCTION
DETAILS-2

DRAWN BY: KYY JOB NUMBER: 7213-00

CHECKED BY: SSH DATE: 06/13/2019

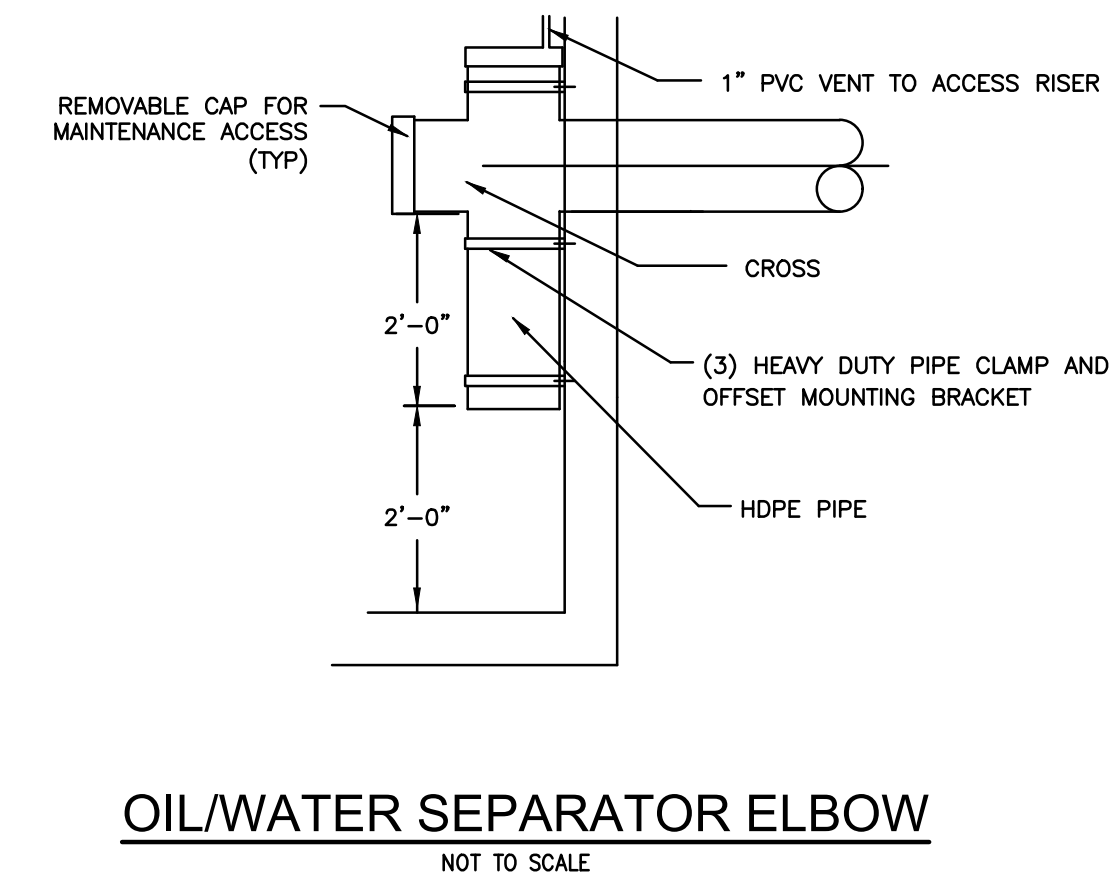
C-8.1

SHEET: 10 OF 3



THRUST BLOCK DIMENSIONS

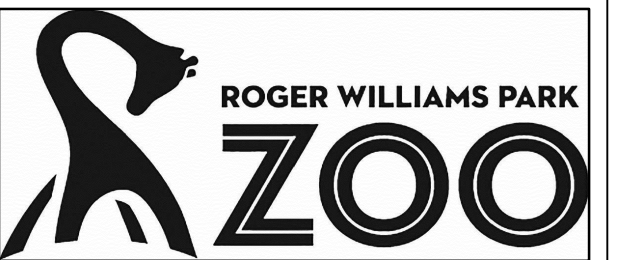
Pipe Size X	Line Pressure = 150 PSI Soil Pressure = 2000 PSF				
	A	B	C	D	VOL. CONC.
90 DEGREE BEND					
6"	0'-10"	1'-11"	1'-11"	1'-6"	4± CF
8"	0'-10"	2'-7"	2'-7"	1'-6"	7± CF
12"	0'-10"	3'-10"	3'-10"	1'-6"	14± CF
45 DEGREE BEND					
6"	0'-10"	1'-6"	1'-6"	1'-0"	2± CF
8"	0'-10"	1'-11"	1'-11"	1'-0"	3± CF
12"	0'-10"	2'-10"	2'-10"	1'-0"	5± CF
22-1/2 DEGREE BEND					
6"	0'-10"	1'-0"	1'-0"	1'-0"	1± CF
8"	0'-10"	1'-4"	1'-4"	1'-0"	1.5± CF
12"	0'-10"	2'-0"	2'-0"	1'-0"	3± CF
11-1/4 DEGREE BEND					
6"	0'-10"	0'-10"	0'-10"	1'-0"	0.7± CF
8"	0'-10"	1'-0"	1'-0"	1'-0"	1± CF
12"	0'-10"	1'-6"	1'-6"	1'-0"	2± CF



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Revision Schedule

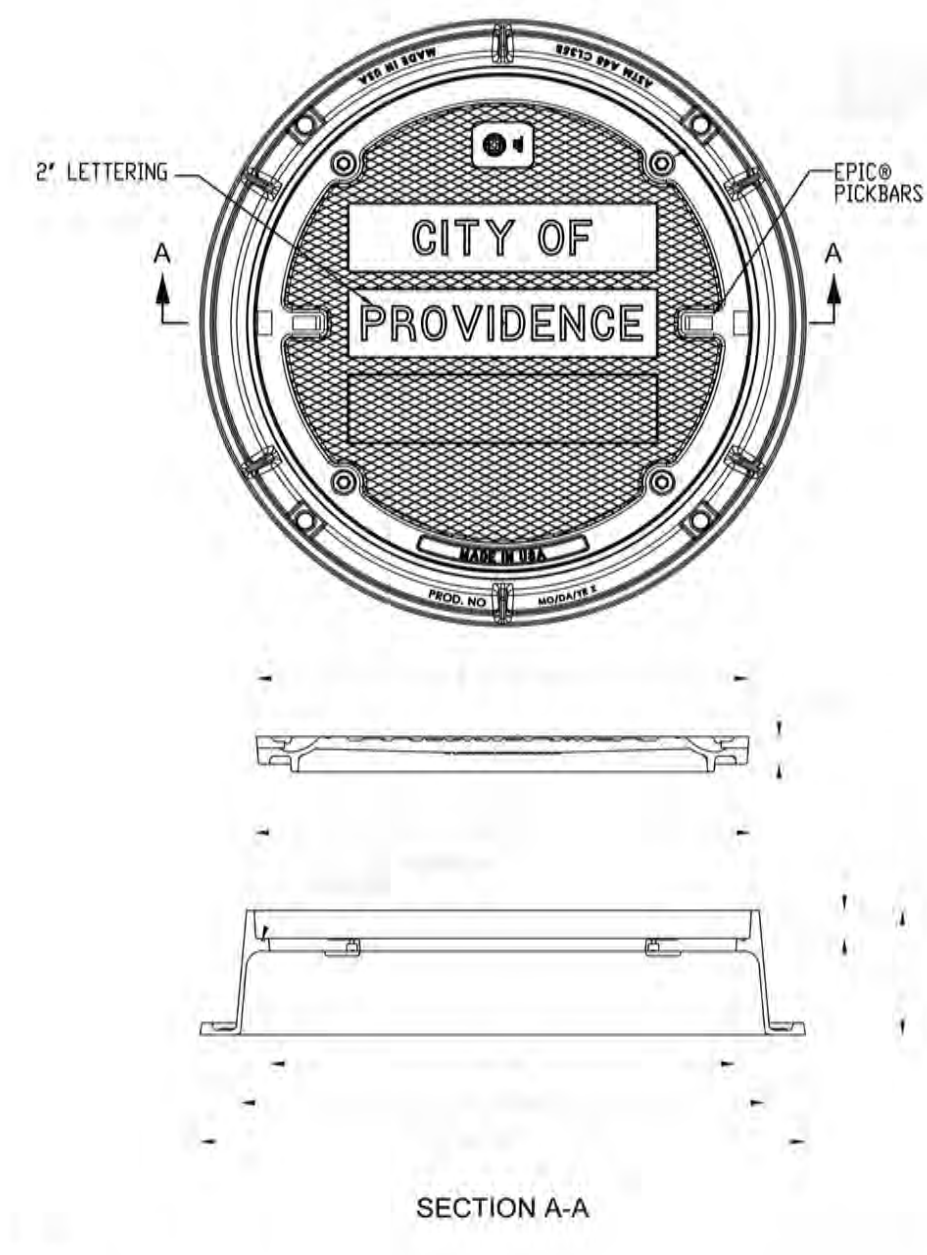
Revision Number	Revision Date

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SHEET TITLE
CONSTRUCTION DETAILS-3

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CHECKED BY: SSH DATE: 06/13/2019

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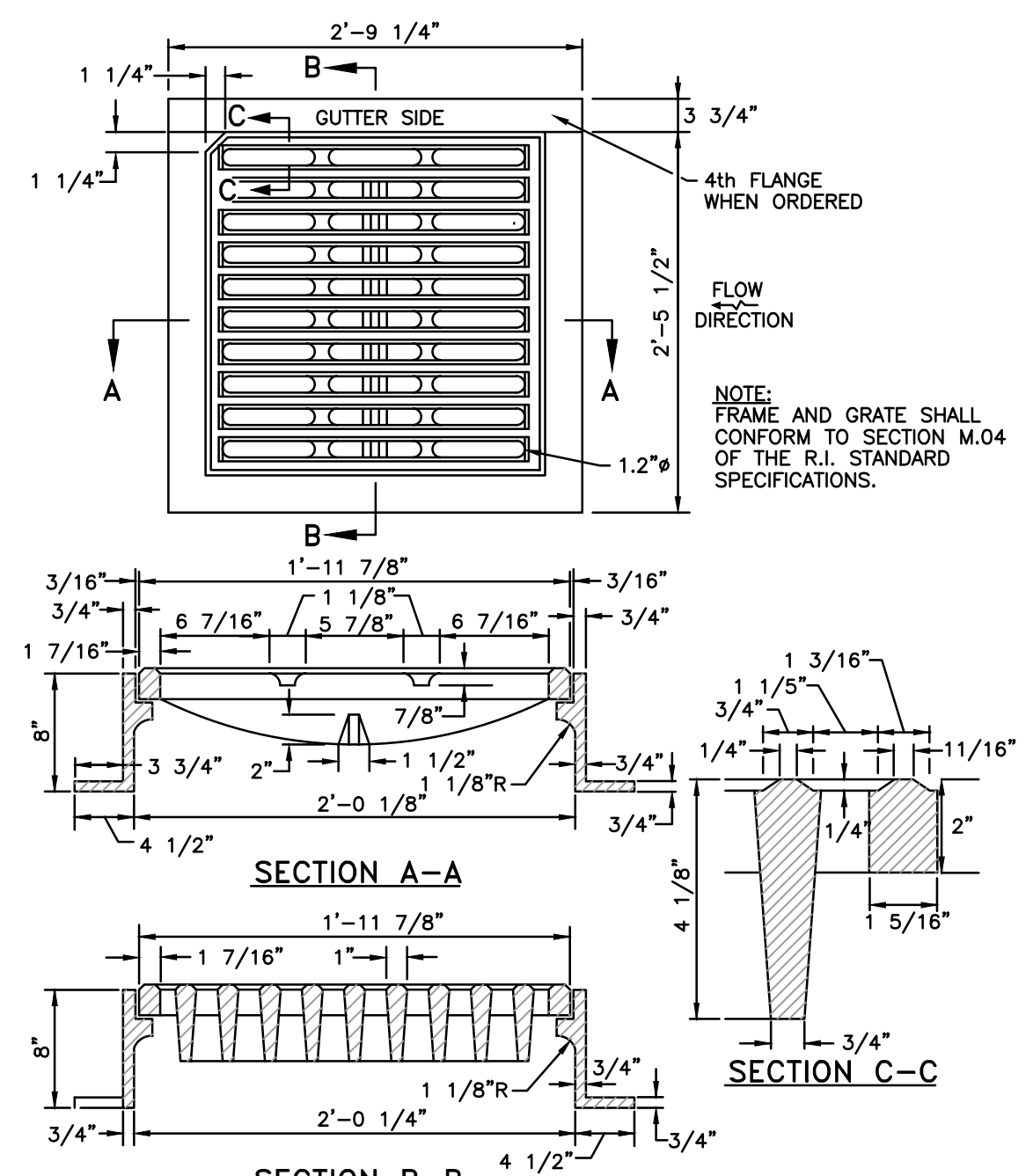


- Notes:
- Materials shall conform to Section M.04 of the Rhode Island Standard Specifications.
 - All materials shall be gray iron and shall be ASTM A48 certified.
 - Shall be E1 Product 200694W03 or approved equal.

HEAVY DUTY MANHOLE FRAME AND COVER-32 INCH



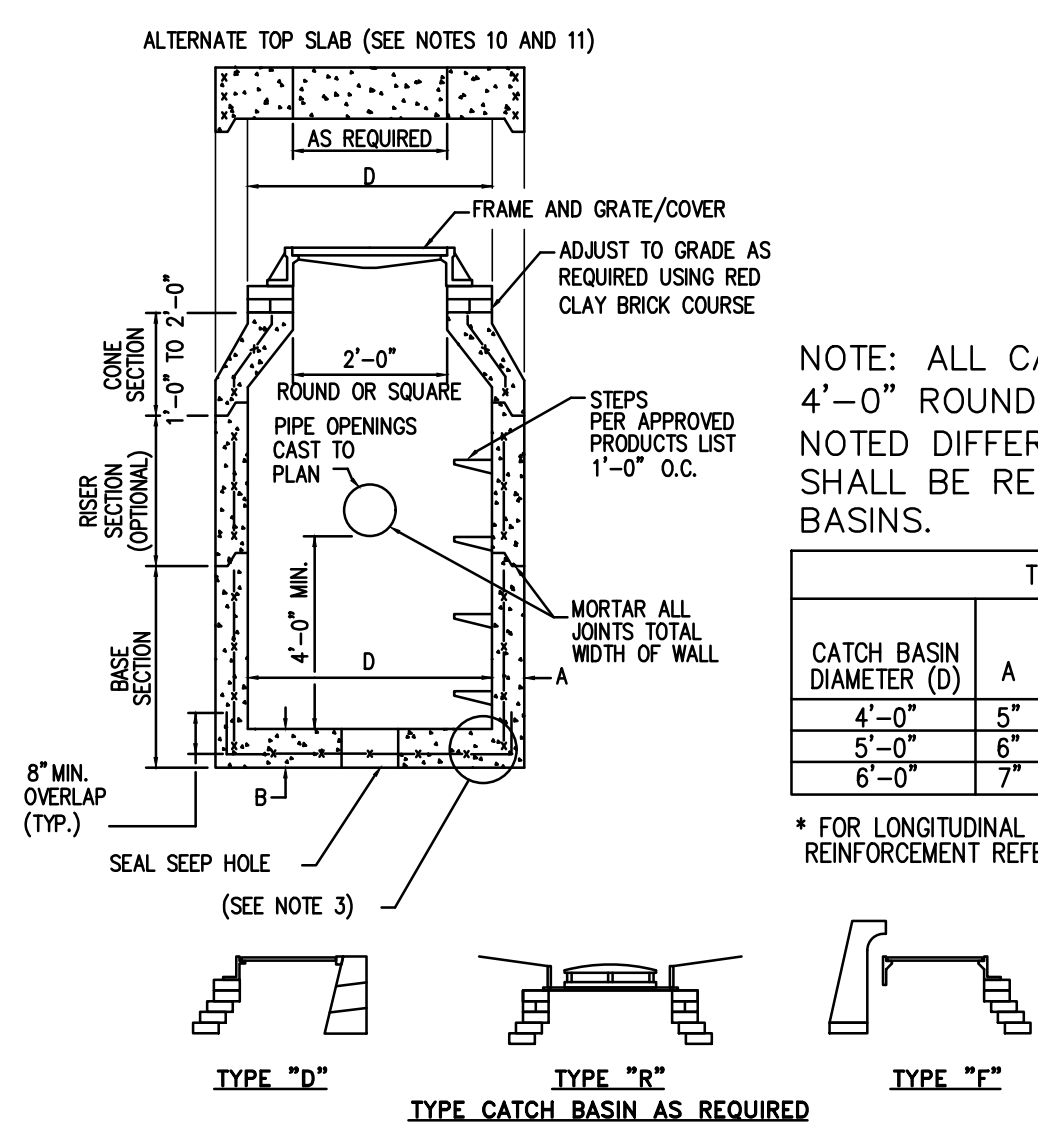
ISSUE DATE: 1/6/17



**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SQUARE FRAME AND GRATE
(BICYCLE SAFE)**



NOT TO SCALE



NOTE: ALL CATCHBASINS SHALL BE 4'-0" ROUND W/ 4' SUMP UNLESS NOTED DIFFERENTLY. OIL/WATER SHALL BE REQUIRED ON ALL CATCH BASINS.

CATCH BASIN DIAMETER (D)	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED	
	A	B
4'-0"	5"	6"
5'-0"	6"	7"
6'-0"	7"	8"

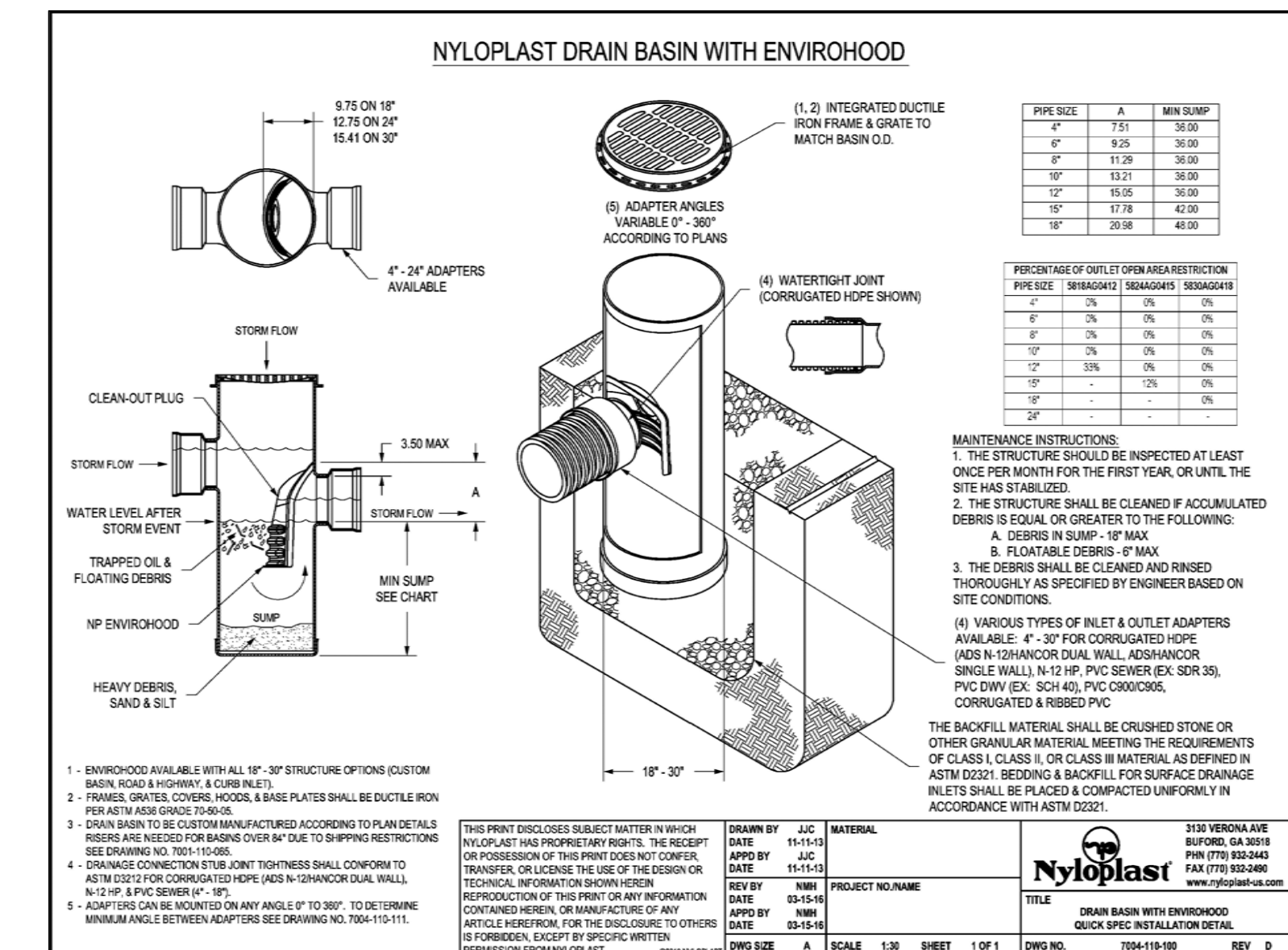
* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ONE POUR MONOLITHIC BASE SECTION.
 - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 - CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CORE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 - FOR CATCH BASIN TYPES "D" AND "E" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
 - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
 - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 - ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.



**PRECAST 4'-0", 5'-0", OR 6'-0"
ROUND CATCH BASIN**

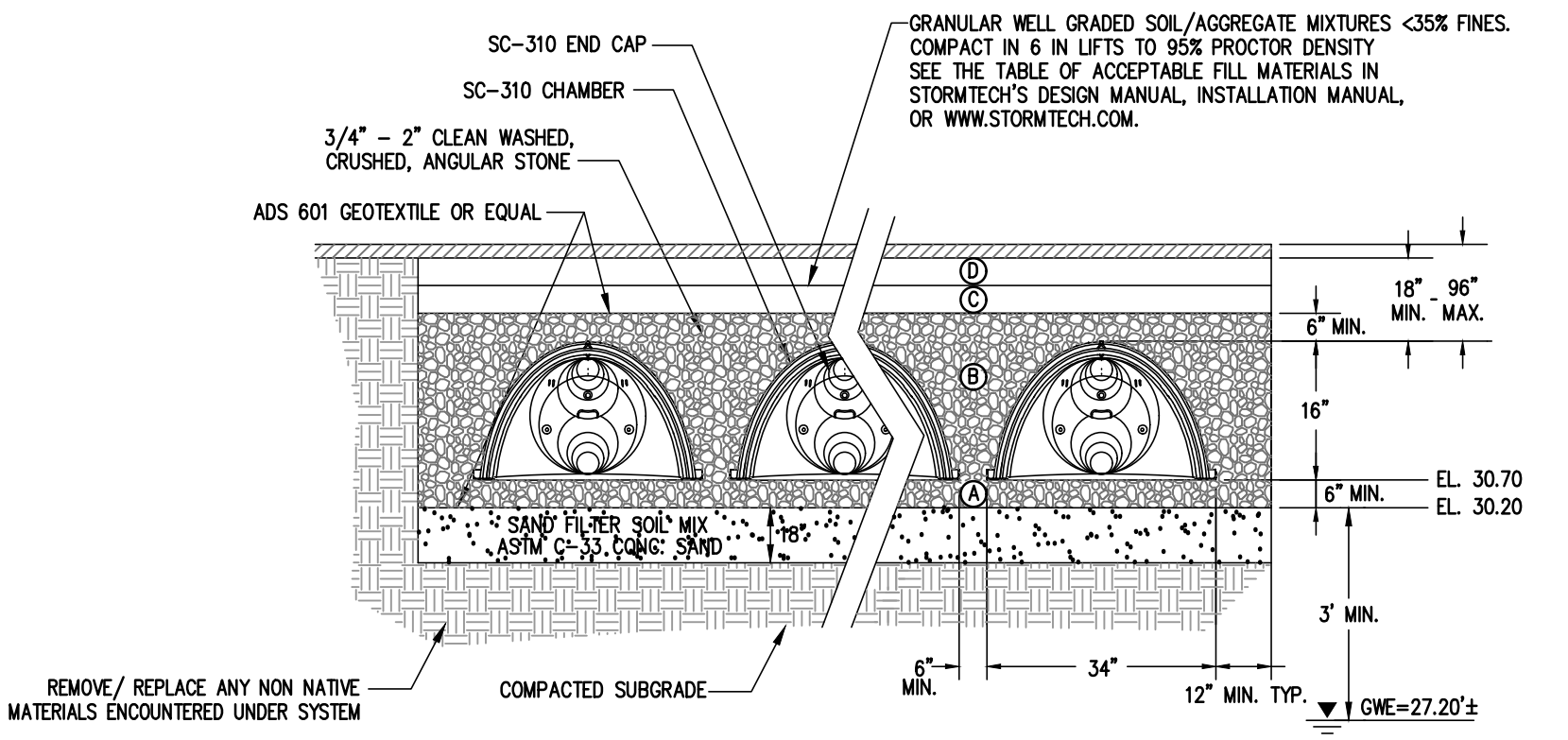
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AREA DRAIN (AD)

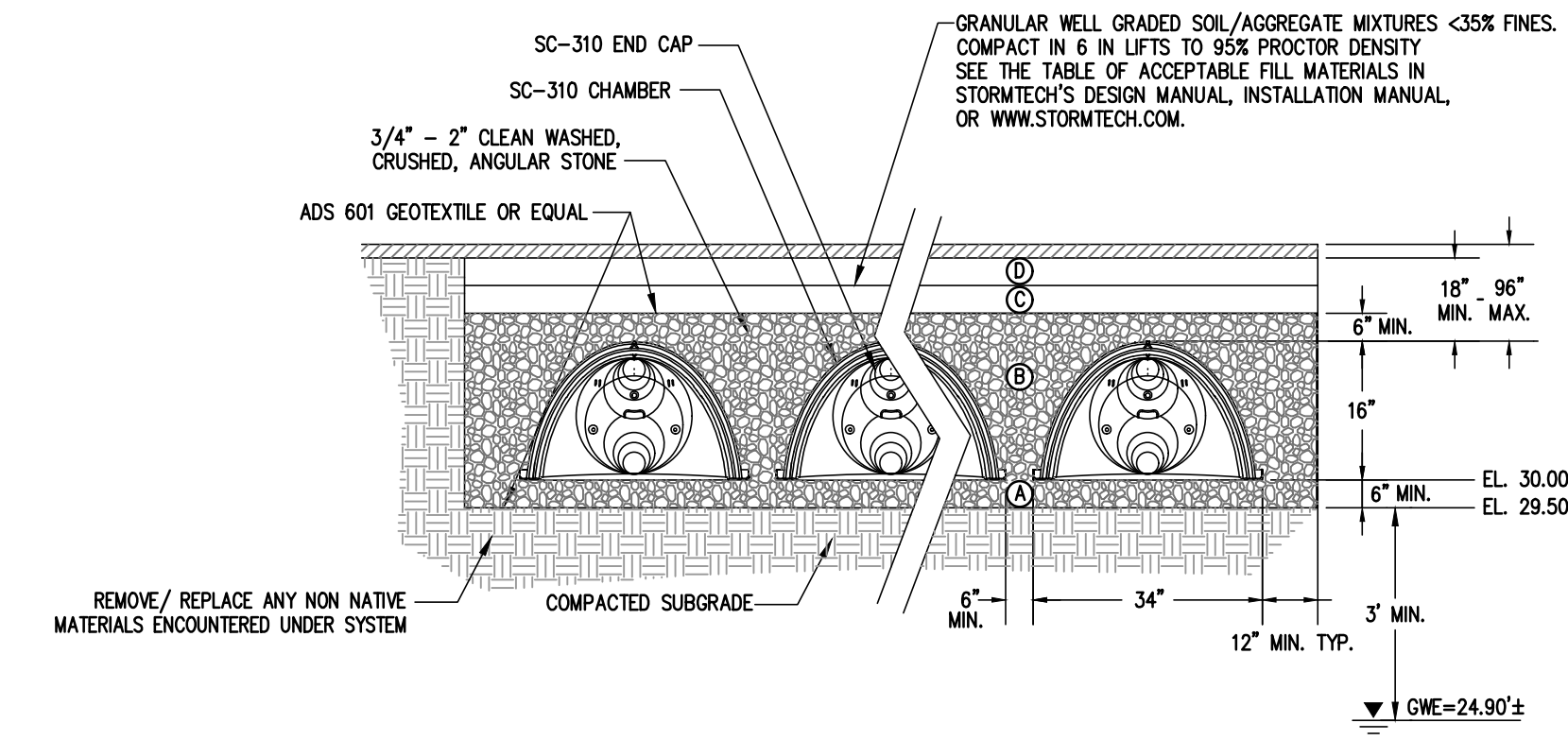
NOT TO SCALE

- CHAMBERS SHALL BE STORMTECH (SC-740 & SC-310, PER PLAN) OR APPROVED EQUAL.
- CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F 2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT (3 SETS) OF THE FOLLOWING TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION BY A REGISTERED STRUCTURAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL CROSS SECTION IS BASED.
- THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.



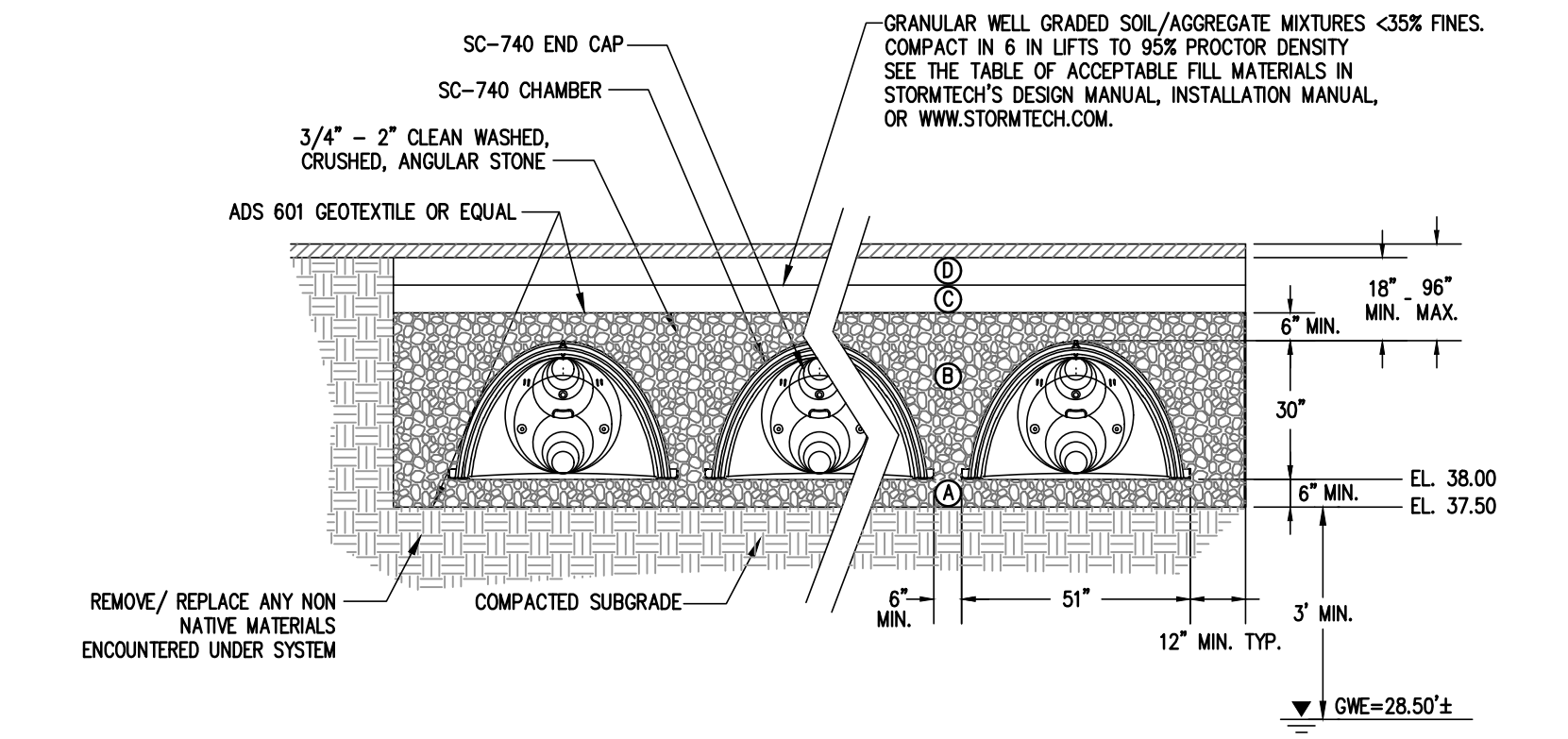
**STORMTECH STORMWATER (BMP-1)
SC-310 CHAMBER SYSTEM W/ 18" SAND LAYER**

NOT TO SCALE



**STORMTECH STORMWATER (BMP-2)
SC-310 CHAMBER SYSTEM**

NOT TO SCALE



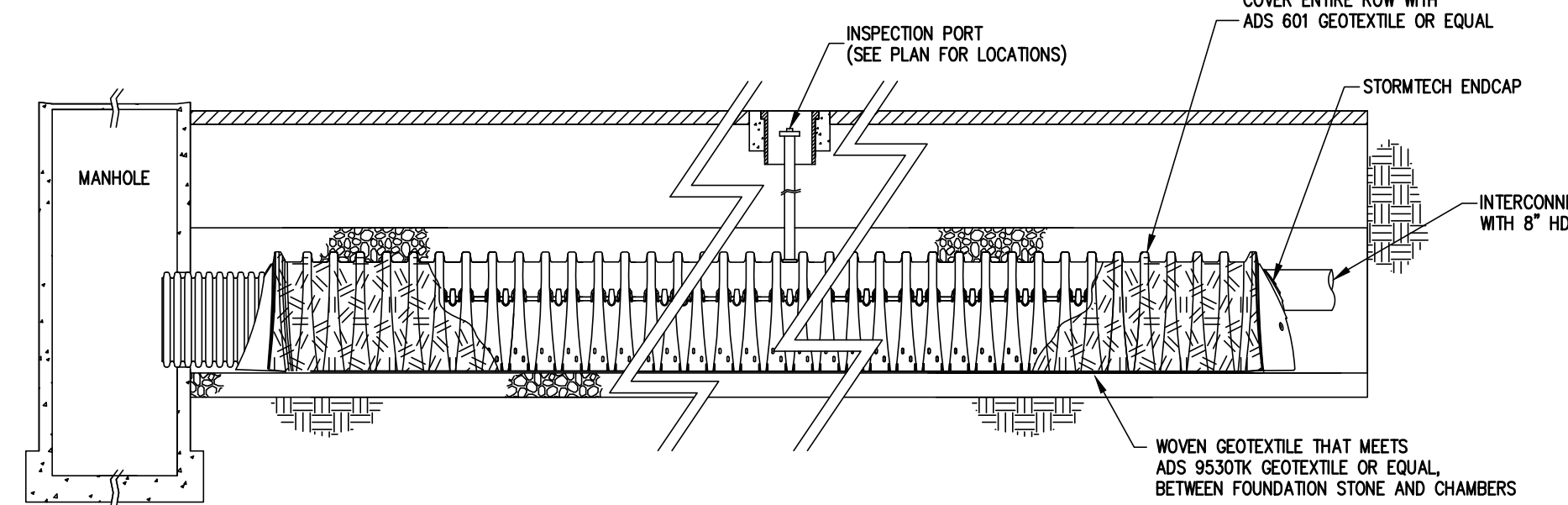
**STORMTECH STORMWATER (BMP-3)
SC-740 CHAMBER SYSTEM**

NOT TO SCALE

ACCEPTABLE FILL MATERIALS: SC-740 CHAMBER SYSTEMS

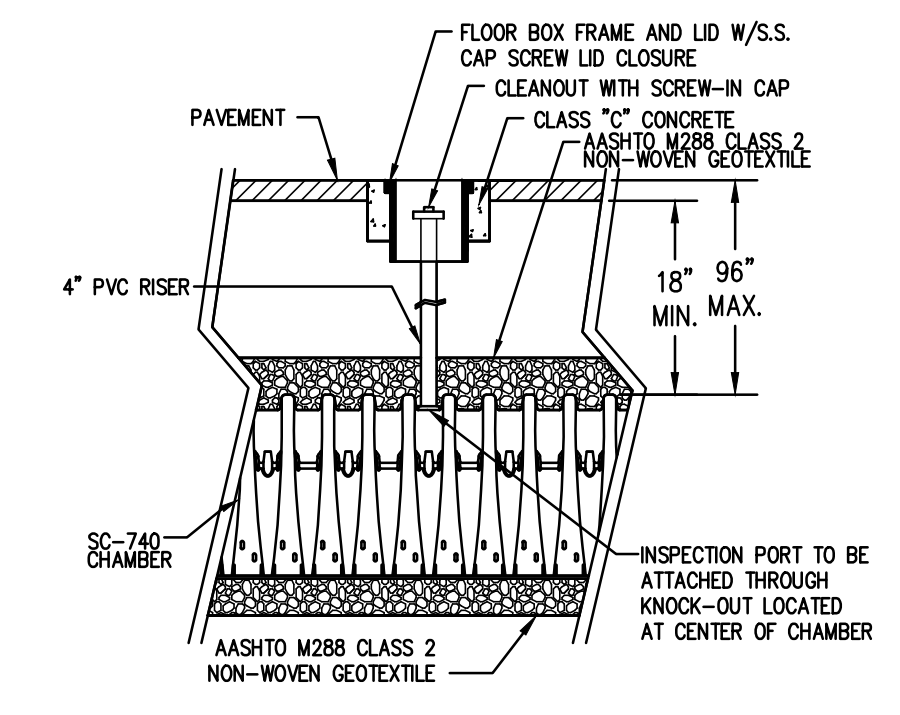
MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
ⓐ FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THIS LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
ⓑ FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B LAYER) TO 18" (457 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES < 35% FINES. MOST PAVEMENT SUB-BASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	3.357, 4.467, 5.56, 57, 6.67, 68, 7.78, 8.89, 9, 10	BEGIN COMPACTION AFTER 12" (305 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (152 mm) LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
ⓒ EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN WASHED, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH (19 - 51 mm)	3.357, 4.467, 5.56, 57	NO COMPACTION REQUIRED.
ⓓ FOUNDATION STONE BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN WASHED, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH (19 - 51 mm)	3.35, 4.467, 5.56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN WASHED, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN WASHED, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTIONED IN 6" (29 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.



ISOLATOR CHAMBER SYSTEM

NOT TO SCALE



**STORMTECH CHAMBER SYSTEM
INSPECTION PORT DETAIL**

NOT TO SCALE



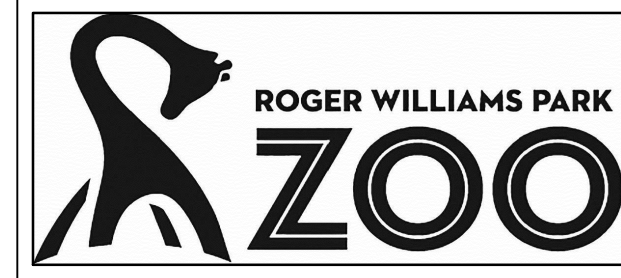
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Consultant



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Education Center & Pavilion



1000 ELMWOOD AVENUE,
PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

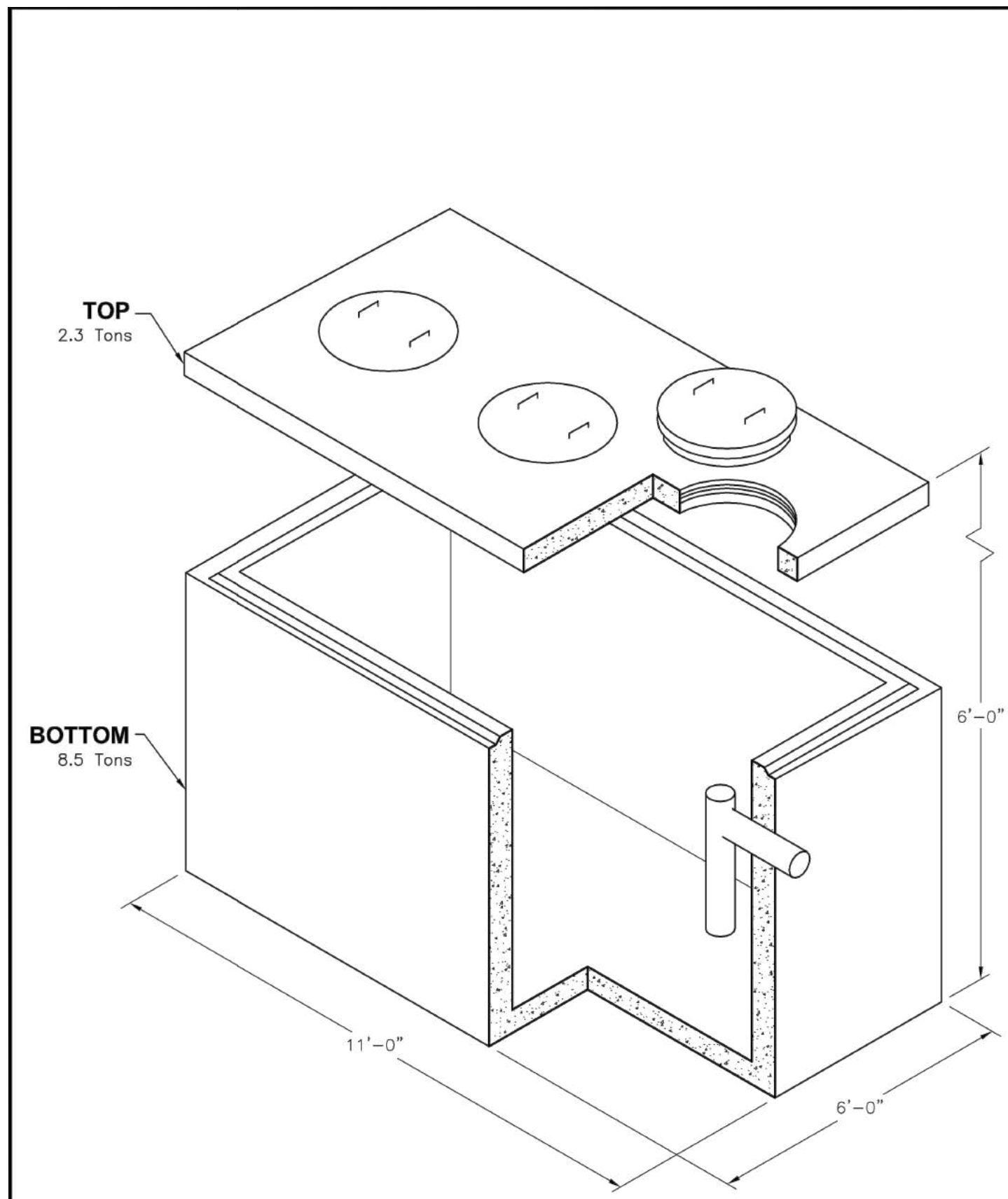
Issued for Bid, April 18, 2024

**SHEET TITLE
CONSTRUCTION
DETAILS-4**

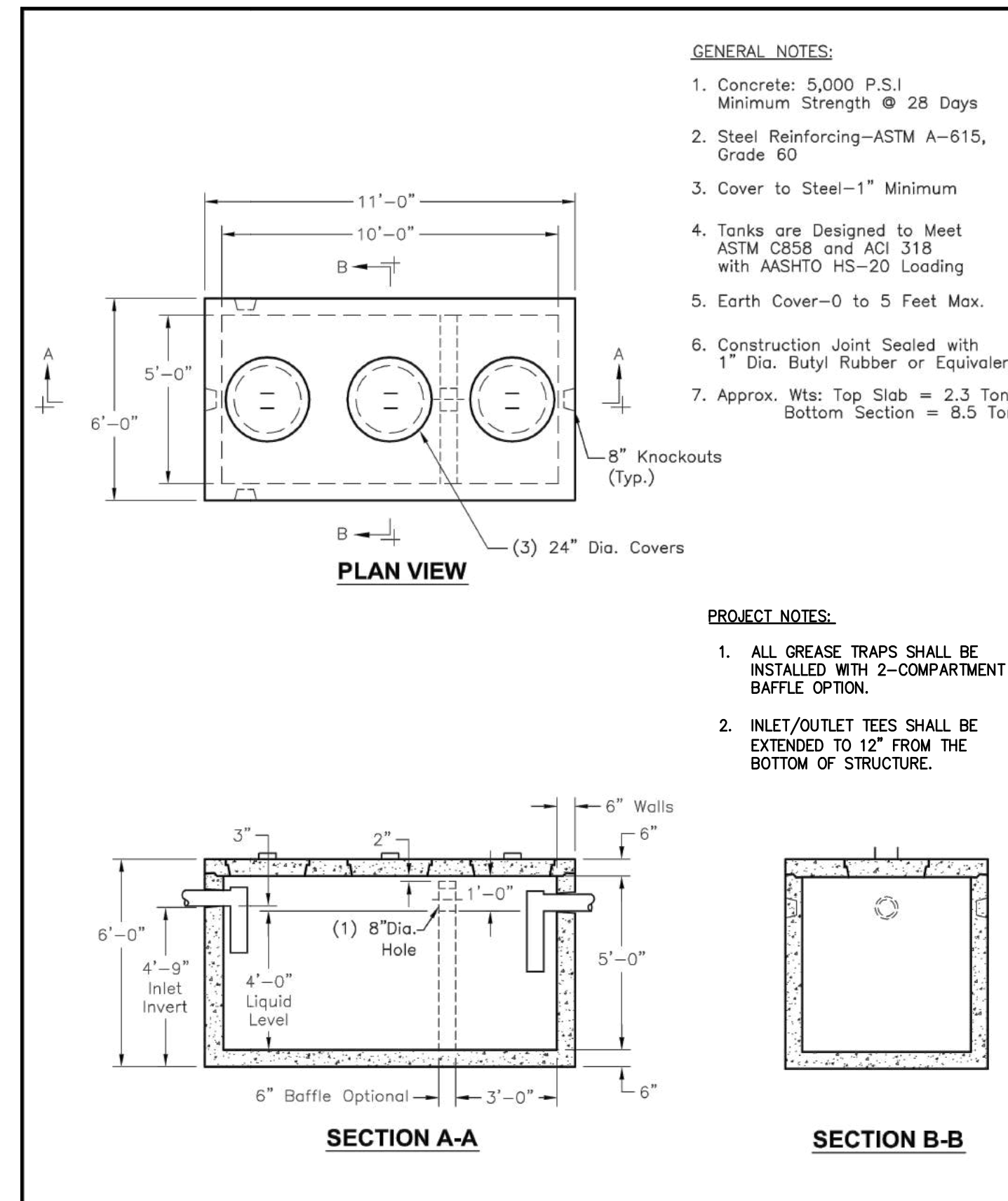
DRAWN BY: KYY JOB NUMBER: 7213-00
CHECKED BY: SSH DATE: 06/13/2019

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SHEET: 12 OF 3



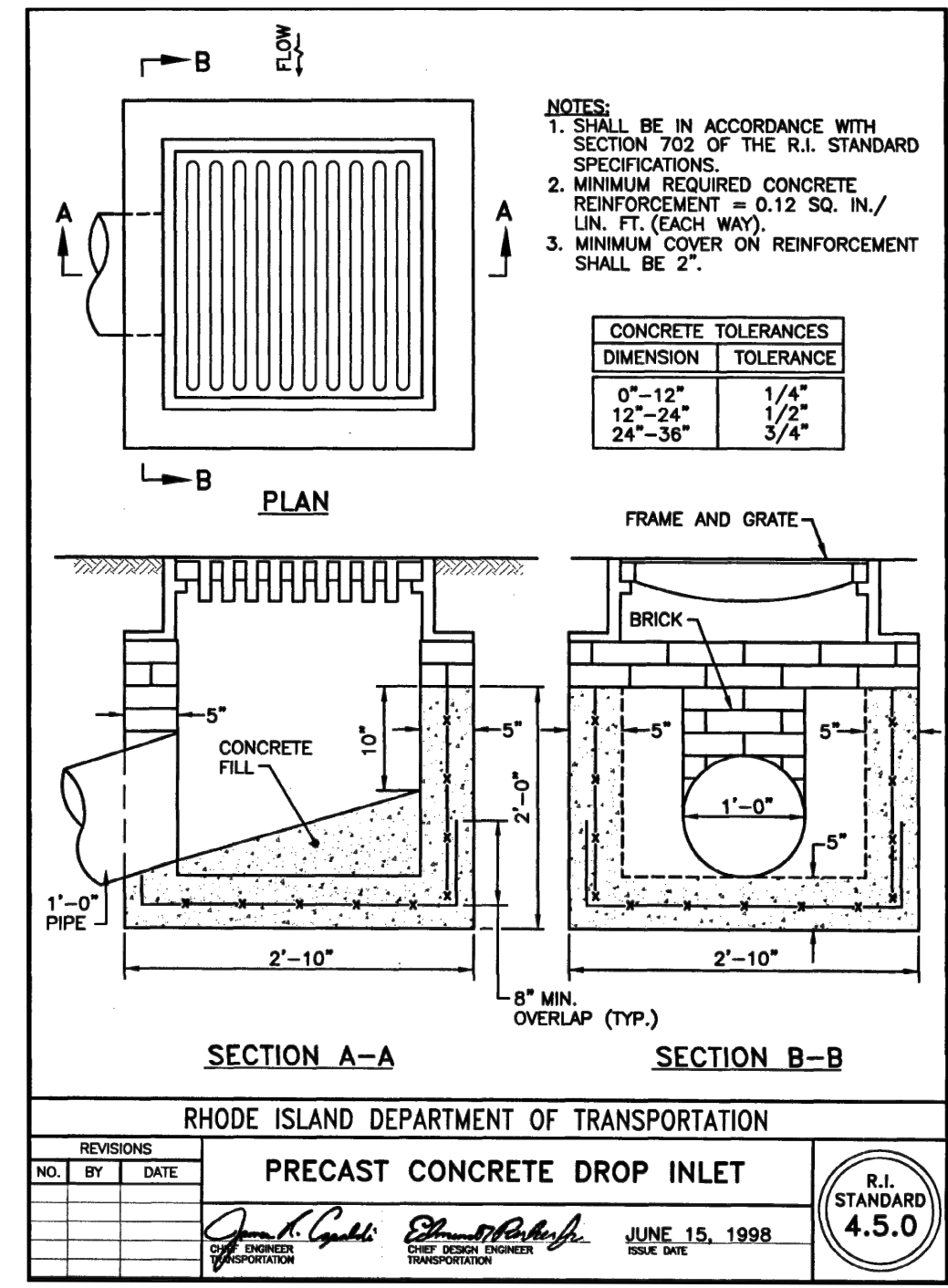
Oldcastle Precast®	CST-1500	5'-0" x 10'-0" x 5'-0" I.D.
	FILE NAME: 324ESCST1500_ISO.DWG	Septic Tank
	ISSUE DATE: January, 2008	1,500 Gallon Capacity
	www.oldcastleprecast.com	Copyright © 2008 Oldcastle Precast



Oldcastle Precast®	CST-1500	5'-0" x 10'-0" x 5'-0" I.D.
	FILE NAME: 324ESCST1500_DET.DWG	Septic Tank
	ISSUE DATE: January, 2008	1,500 Gallon Capacity
	www.oldcastleprecast.com	Copyright © 2008 Oldcastle Precast

- GENERAL NOTES:**
- Concrete: 5,000 P.S.I. Minimum Strength @ 28 Days
 - Steel Reinforcing-ASTM A-615, Grade 60
 - Cover to Steel-1" Minimum
 - Tanks are Designed to Meet ASTM C858 and ACI 318 with AASHTO HS-20 Loading
 - Earth Cover-0 to 5 Feet Max.
 - Construction Joint Sealed with 1" Dia. Butyl Rubber or Equivalent
 - Approx. Wts: Top Slab = 2.3 Tons Bottom Section = 8.5 Tons

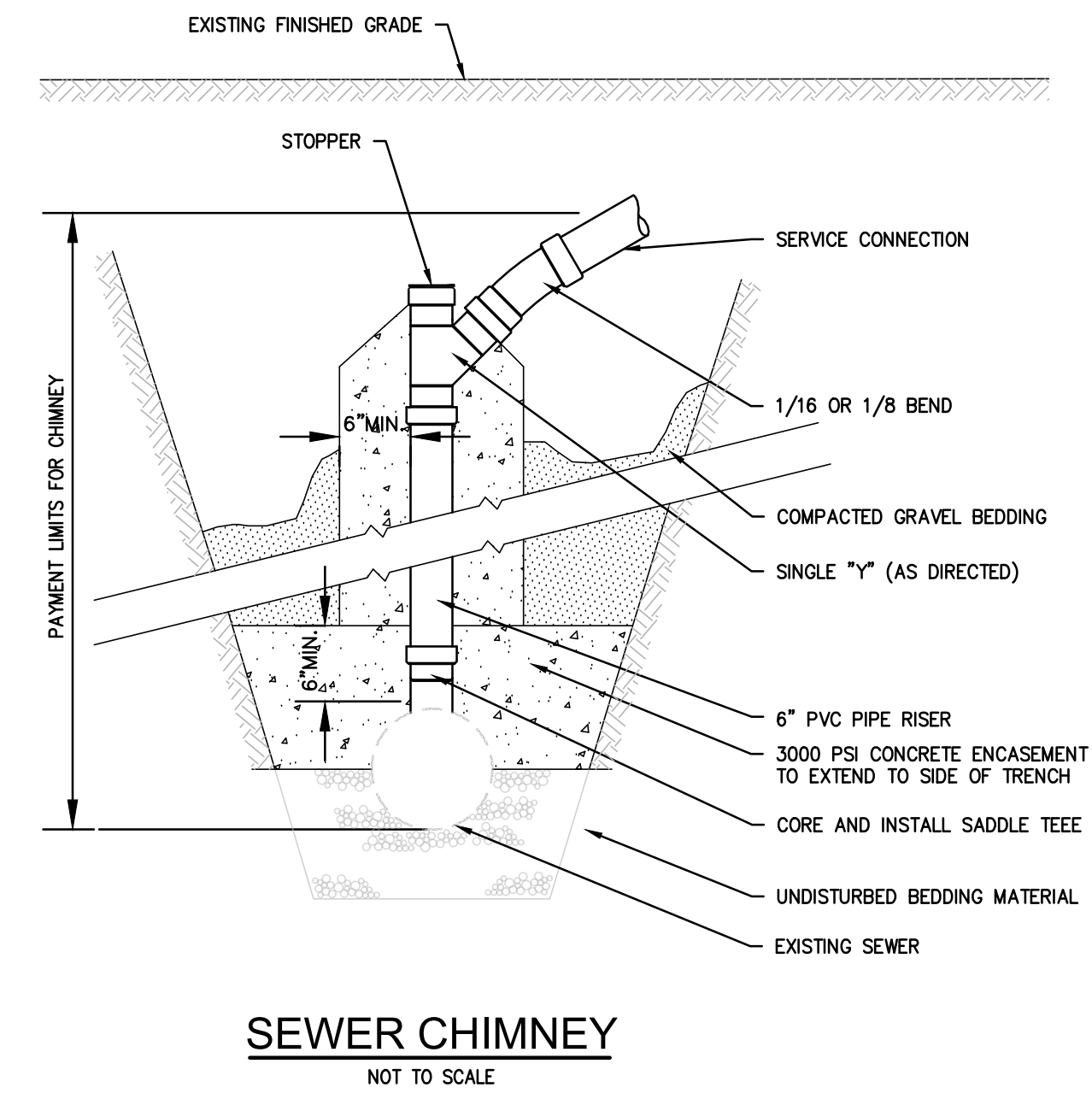
- PROJECT NOTES:**
- ALL GREASE TRAPS SHALL BE INSTALLED WITH 2-COMPARTMENT BAFFLE OPTION.
 - INLET/OUTLET TEES SHALL BE EXTENDED TO 12" FROM THE BOTTOM OF STRUCTURE.



RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
PRECAST CONCRETE DROP INLET		
NO.	BY	DATE
June 15, 1998		R.I. STANDARD 4.5.0

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - MINIMUM REQUIRED CONCRETE REINFORCEMENT = 0.12 SQ. IN./LIN. FT. (EACH WAY).
 - MINIMUM COVER ON REINFORCEMENT SHALL BE 2".

CONCRETE TOLERANCES	TOLERANCE
0"-12"	1/4"
12"-24"	1/2"
24"-36"	3/4"



SEWER CHIMNEY
NOT TO SCALE

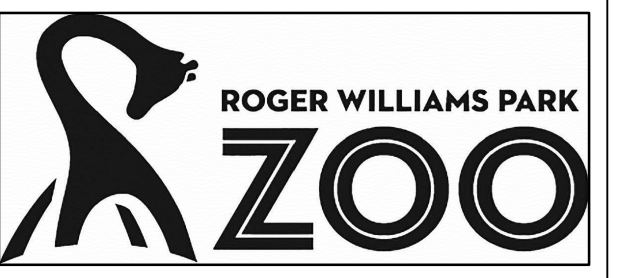


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PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

Issued for Bid, April 18, 2024

SHEET TITLE
CONSTRUCTION
DETAILS-5

DRAWN BY: KYY	JOB NUMBER: 7213-00
CHECKED BY: SSH	DATE: 06/13/2019

C-8.4

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ABBREVIATIONS

GENERAL ABBREVIATIONS:

Table of general abbreviations including AAV (Automatic Air Vent), ADD'L (Additional), AFF (Above Finished Floor), AMS (Air Flow Measuring Station), ALT (Altitude or Alternate), AMP (Ampere), AP (Access Panel), APD (Air Pressure Drop), ARCH (Architect), ATC (Automatic Temp. Control), ATM (Atmosphere), AVG (Average), BDD (Backdraft Damper), BG (Blast Gate Damper), BHP (Brake Horsepower), BI (Backwards Inclined), BLDG (Building), BMS (Building Management System), BOD (Bottom of Duct), BOP (Bottom of Pipe), BSM (Basement), BTU (British Thermal Unit), BTH (BTU per Hour), CA (Compressed Air), CDW (Condenser Water), CENT (Centrifugal), CF (Cubic Feet), CFM (Cubic Feet per Minute), CL (Centerline), C.L. (Column Line), CND (Condensate), CLG (Ceiling or Cooling), CLO (Clean-out), CO (Carbon Monoxide), CO2 (Carbon Dioxide), COL (Column), CONN (Connection), CONTR (Contractor), CV (Constant Volume), DB (Dry Bulb Temperature), DEG (Degree Direct), DDC (Digital Control), DIA (Diameter), DIFF (Diffuser), DIM (Dimension), DN (Down), DP (Differential Pressure), DWDI (Double Width Double Inlet), DX (Direct Expansion), EA (Each or Exhaust Air), EAT (Entering Air Temperature), ECH (Electric Cabinet Heater), EFF (Efficiency), ELEC (Electrical), ELEV (Elevation), EMER (Emergency), EMS (Energy Management System), ENT (Enter), ESP (External Static Pressure), EWT (Entering Water Temperature), EXH (Exhaust), EXIST. (Existing), F (Fahrenheit or Fan), FA (Free Area), FD (Fire Damper Access Door), FLA (Full Load Amps), FLEX (Flexible), FPM (Feet per Minute), FPS (Feet per Second), FRP (Fiberglass Reinforced Plastic), FS (Flow Switch), FTR (Finned Tube Radiation), G (Gas), GAL (Gallons), GALV (Galvanized), GC (General Contractor), GPH (Gallons per Hour), GPM (Gallons per Minute), GWB (Gypsum Wall Board), HB (Hose Bibb), HC (Heating Coil), HEX (Heat Exchanger), HGT (Height), HP (Horsepower), HR (Hour), HTG (Heating), HW (Hot Water), HZ (Hertz), ID (Inside Diameter), IN (Inches), KW (Kilowatt), L (Length), LEAV (Leaving Air Temperature), LB (Pound), LF (Linear Feet), LD (Linear Diffuser), LRA (Locked Rotor Amps), LVD (Louvered Door), LVG (Leaving Air Temperature), LWT (Leaving Water Temperature), MAX (Maximum), MBH (Thousand Btu), MCA (Minimum Circuit Amps), MD (Motor Operated Damper), MECH (Mechanical), MEZZ (Mezzanine), MFR (Manufacturer), MIN (Minimum), MUA (Make-up Air), N/A (Not Applicable), NC (Normally Closed), NO (Normally Open), No. (Number), NOM (Nominal), NTS (Not to Scale), OA (Outside Air), OD (Outside Diameter), ODP (Open Drip Proof), OED (Open End Duct), OV (Outlet Velocity), PD (Pressure Drop), PH (Phase), PHC (Preheat Coil), PBG (Plumbing), POS (Provided by Other Section), PSI (Pounds per Square Inch), PSIA (Psi Absolute), PSID (Psi Differential), PSIG (Psi Gauge), PVC (Polyvinyl Chloride), PRV (Pressure Reducing Valve), QTY (Quantity), R (Radius), RA (Return Air), REG (Register), RET (Return), REQD (Required), RH (Relative Humidity), RLA (Running Load Amps), RLL (Refrigerant Liquid Line), RM (Room), RPM (Revolutions per Minute), RSL (Refrigerant Suction Line), SA (Supply Air), SCHED (Schedule), SD (Smoke Detector), SEN (Sensible), SHC (Sensible Heat Capacity), SP (Static Pressure), SPECS (Specifications), SQ (Square), SF (Square Feet), SS (Stainless Steel), STL (Steel), SUP (Supply), SWI (Single with Single Inlet), T (Temperature), TEL (Telephone), TEFC (Tot. Enclosed Fan Cooled), TEMP (Temperature), TSTAT (Thermostat), TOD (Top of Duct), TON (12,000 Btu), TOP (Top of Pipe), TOT (Total), TSP (Total Static Pressure), TYP (Typical), V (Vent), VB (Vacuum Breaker), VD (Volume Damper), V (Volts (Electrical)), VEL (Velocity), W (Width or Watt), W (With), WB (Wet Bulb Temperature), WC (Water Column), WG (Water Gauge), WMS (Wire Mesh Screen), W/O (Without), WPD (Water Pressure Drop), WTD (Water Temperature Diff.), LSPS (Low Static Pressure Switch), LS (Level Sensor), MD (Motorized Damper), NC (Normally Closed), NO (Normally Open), OAH (Outside Air Humidity Sensor), OAT (Outside Air Temp. Sensor), RH (Relative Humidity), S (Switch), SP (Static Pressure Sensor), SD (Smoke Detector), SPD (Speed Control), S/S (Start/Stop), T (Thermostat), TS (Temperature Sensor), WTS (Water Temperature Sensor), GMS (Glycol Make-up System), GUH (Gas Fired Unit Heater), H (Humidifier), HP (Heat Pump), HPU (HP Condensing Unit), HV (Heating & Ventilating Unit), HWC (Hot Water Coil), LV (Louver), KEF (Kitchen Exhaust Fan), MAU (Make-up Air Unit), MCC (Motor Control Center), P (Pump), PTAC (Packaged Terminal AC Unit), R (Return Grille), RF (Roof Exhaust Fan), RHP (Radiant Heating Panel), RTU (Roof Top Unit), S (Supply Diffuser), SA (Sound Attenuator), SAC (Split AC Unit), SHP (Split Heat Pump), SF (Supply Fan), T (Transfer Grille), UH (Unit Heater), UV (Unit Ventilator), VAV (Variable Air Volume Box), VFD (Variable Frequency Drive), WSH (Water Source Heat Pump), AC (Air Conditioning Unit), ACU (AC Condensing Unit), AHU (Air Handling Unit), AS (Air Separator), B (Boiler), BB (Base Board), BC (Branch Controller), BP (Boiler Pump), BT (Buffer Tank), CAC (Critical Cooling AC Unit), CC (Cooling Coil), CCU (CC Condensing Unit), CEF (Ceiling Exhaust Fan), CH (Chiller), CP (Circulator Pump), CT (Cooling Tower), CUH (Cabinet Unit Heater), CWC (Chilled Water Coil), DC (Dry Cooler), DEF (Dishwasher Exhaust Fan), DSF (Destratification Fan), E (Exhaust Grille), EBB (Electric Base Board), ECH (Electric Cabinet Heater), EHC (Electric Ceiling Heater), EF (Exhaust Fan), ERV (Energy Recovery Ventilator), ET (Expansion Tank), EUH (Electric Unit Heater), F (Furnace), FC (Fan Coil Unit), FPB (Fan Powered VAV), FT (Fintube), GMS (Glycol Make-up System), GUH (Gas Fired Unit Heater), H (Humidifier), HP (Heat Pump), HPU (HP Condensing Unit), HV (Heating & Ventilating Unit), HWC (Hot Water Coil), LV (Louver), KEF (Kitchen Exhaust Fan), MAU (Make-up Air Unit), MCC (Motor Control Center), P (Pump), PTAC (Packaged Terminal AC Unit), R (Return Grille), RF (Roof Exhaust Fan), RHP (Radiant Heating Panel), RTU (Roof Top Unit), S (Supply Diffuser), SA (Sound Attenuator), SAC (Split AC Unit), SHP (Split Heat Pump), SF (Supply Fan), T (Transfer Grille), UH (Unit Heater), UV (Unit Ventilator), VAV (Variable Air Volume Box), VFD (Variable Frequency Drive), WSH (Water Source Heat Pump)

CONTROLS ABBREVIATIONS:

Table of controls abbreviations including LSPS (Low Static Pressure Switch), LS (Level Sensor), MD (Motorized Damper), NC (Normally Closed), NO (Normally Open), OAH (Outside Air Humidity Sensor), OAT (Outside Air Temp. Sensor), RH (Relative Humidity), S (Switch), SP (Static Pressure Sensor), SD (Smoke Detector), SPD (Speed Control), S/S (Start/Stop), T (Thermostat), TS (Temperature Sensor), WTS (Water Temperature Sensor), ES (End Switch), FM (Flow Meter/Transmitter), FZ (Freeze/Stat), H (Humidistat), HEPA (High Eff. Particulate Air Filter), HGB (Hot Gas Bypass), HHL (High Humidity Limit Sensor), HOA (Hands-off Automatic Switch), HS (Humidity Sensor), HZ (Hertz)

EQUIPMENT ABBREVIATIONS:

Table of equipment abbreviations including AC (Air Conditioning Unit), ACU (AC Condensing Unit), AHU (Air Handling Unit), AS (Air Separator), B (Boiler), BB (Base Board), BC (Branch Controller), BP (Boiler Pump), BT (Buffer Tank), CAC (Critical Cooling AC Unit), CC (Cooling Coil), CCU (CC Condensing Unit), CEF (Ceiling Exhaust Fan), CH (Chiller), CP (Circulator Pump), CT (Cooling Tower), CUH (Cabinet Unit Heater), CWC (Chilled Water Coil), DC (Dry Cooler), DEF (Dishwasher Exhaust Fan), DSF (Destratification Fan), E (Exhaust Grille), EBB (Electric Base Board), ECH (Electric Cabinet Heater), EHC (Electric Ceiling Heater), EF (Exhaust Fan), ERV (Energy Recovery Ventilator), ET (Expansion Tank), EUH (Electric Unit Heater), F (Furnace), FC (Fan Coil Unit), FPB (Fan Powered VAV), FT (Fintube), GMS (Glycol Make-up System), GUH (Gas Fired Unit Heater), H (Humidifier), HP (Heat Pump), HPU (HP Condensing Unit), HV (Heating & Ventilating Unit), HWC (Hot Water Coil), LV (Louver), KEF (Kitchen Exhaust Fan), MAU (Make-up Air Unit), MCC (Motor Control Center), P (Pump), PTAC (Packaged Terminal AC Unit), R (Return Grille), RF (Roof Exhaust Fan), RHP (Radiant Heating Panel), RTU (Roof Top Unit), S (Supply Diffuser), SA (Sound Attenuator), SAC (Split AC Unit), SHP (Split Heat Pump), SF (Supply Fan), T (Transfer Grille), UH (Unit Heater), UV (Unit Ventilator), VAV (Variable Air Volume Box), VFD (Variable Frequency Drive), WSH (Water Source Heat Pump)

MECHANICAL SYMBOL LEGEND

Mechanical Symbol Legend showing symbols for Air Devices (4-way supply diffuser, 3-way supply diffuser, 2-way supply diffuser, 2-way corner supply diffuser, 1-way supply diffuser, return register, exhaust register, side wall supply diffuser, side wall return or exhaust grille), Ductwork (standard size reduction, asymmetric transition, square-to-round transition, standard branch take-off, round branch take-off, standard tee, standard tee with turning vanes, sloped duct rise, fire damper access door, grease duct access door), Controls (duct rise, duct drop, standard square elbow, square elbow with turning vanes, standard radius elbow, fire wrapped ductwork, acoustically lined ductwork, open ended duct outlet, open ended duct intake, open ended duct outlet w/ screen, open ended duct intake w/ screen), and Tags (diffuser tag, equipment tag, revision, connect new to existing). Includes a legend note: 'NOT ALL SYMBOLS ARE NECESSARILY USED. ABSENCE OF A SYMBOL ON THE DRAWINGS DOES NOT NECESSARILY MEAN IT IS NOT REQUIRED. REFER TO DETAILS & SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF WORK REQUIRED.'

- GENERAL CONSTRUCTION NOTES: 1. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL CODES AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE. 2. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED. 3. THIS CONTRACTOR, PRIOR TO SUBMITTING HIS BID, SHALL VISIT THE PROJECT SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED. THE CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY WORK SHOWN ON THE DRAWINGS. THE DRAWINGS REFLECT THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND SITE INVESTIGATIONS. 4. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW THE EXACT ROUTING OF SYSTEMS OR LOCATION OF COMPONENTS. THE EXACT LOCATIONS, DIMENSIONS AND ALL OTHER DETAILS OF EQUIPMENT ARE THE RESPONSIBILITY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE. PROVIDE ALL DUCT AND PIPE TRANSITIONS REQUIRED FOR CONNECTION TO EQUIPMENT. 5. THIS CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE. 6. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DEBRIS WITHIN THE CONSTRUCTION AREA. 7. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. 8. ALL OPENINGS IN WALLS SHALL BE KEPT PROPERLY SEALED AT ALL TIMES, EXCEPT WHEN BEING WORKED ON TO PRECLUDE THE POSSIBILITY OF FLOODING DUE TO STORM OR OTHER CAUSES. 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT, AND ENVIRONMENTAL CONDITIONS. 10. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK. ALL OFFSETS IN PIPING AND DUCTS TO AVOID OBSTRUCTIONS SHALL BE PROVIDED AT NO COST TO THE OWNER. 11. CONTRACTOR SHALL REFER TO THE COMPLETE SET OF CONTRACT DOCUMENTS INCLUDING SPECIFICATIONS AND OTHER TRADES FOR A FULL UNDERSTANDING OF ALL WORK REQUIRED. 12. WHERE USED THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL". 13. PROVIDE ALL REQUIRED RIGGING TO ACCOMMODATE THE REMOVAL & INSTALLATION OF ALL EQUIPMENT. 14. PROVIDE ACCESS PANELS FOR ALL CONCEALED DAMPERS, VALVES, AND EQUIPMENT. 15. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT. 16. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF REGISTERS, DIFFUSERS, AND GRILLES. 17. CONTRACTOR SHALL SPRAY PAINT INSIDE OF DUCT BLACK, BEHIND ALL GRILLES AND REGISTERS. 18. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT AND WORKMANLIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. DUCTWORK AND PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED. 19. IF A SECTION OF DUCT OR PIPE IS NOT LABELED FOR SIZE, THEN THE LARGER SIZE INDICATED ON THE DRAWINGS SHALL PREVAIL. SIZE OF DUCT RUN-OUTS TO DIFFUSERS SHALL EQUAL DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED. 20. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED. 21. PROVIDE CONDENSATE PUMPS THROUGHOUT CONDENSATE DRAINAGE SYSTEM AS REQUIRED TO PROPERLY REMOVE CONDENSATE. PROVIDE A PER PUMP LINE-ITEM ALLOWANCE. 22. REFRIGERANT PIPE SIZING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. LENGTH OF PIPE, ELEVATION CHANGE AND EQUIPMENT ORIENTATION SHALL BE TAKEN INTO ACCOUNT. 23. SUCCESSFULLY PRESSURE TEST ALL REROUTED PIPING SYSTEMS. TEST SHALL BE PERFORMED AT TWICE SYSTEM OPERATING PRESSURES. REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS PROVE TIGHT. 24. ALL ROOF MOUNTED EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM THE ROOF EDGE. EQUIPMENT INSTALLED CLOSER THAN 10' SHALL REQUIRE THE INSTALLATION OF GUARD RAILS. 25. ALL CONCEALED ELECTRICAL CONNECTIONS SHALL BE HARD WIRED. PLUGS SHALL NOT BE USED AS A DISCONNECTING MEANS IN CONCEALED LOCATIONS. 26. CONTRACTOR SHALL PROVIDE ALL TEMPERATURE CONTROLS INCLUDING WIRING, TUBING, AND THERMOSTATS (WITH LOCKING COVERS) AND ALL MISCELLANEOUS APPURTENANCES TO MEET THE INTENT OF THESE DOCUMENTS. 27. DUCT SMOKE DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED IN THE DUCTWORK BY MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. 28. ALL FRESH AIR INTAKES & DIRECT VENTS SHALL TERMINATE AT LEAST 10' HORIZONTALLY FROM ANY GAS METERS. 29. ALL THERMOSTATS, CONTROL SWITCHES, ETC. SHALL BE INSTALLED 48" AFF.

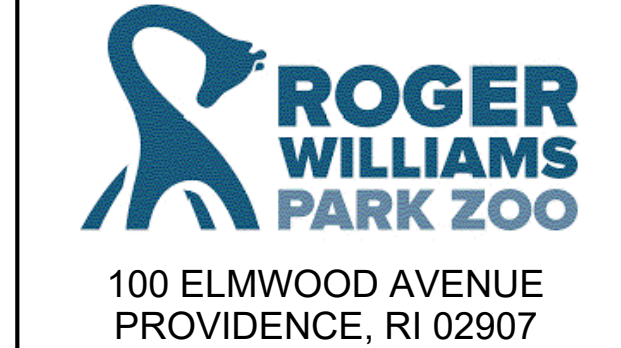
- GENERAL RENOVATION NOTES: 1. ALL SHUT DOWNS OF EXISTING SYSTEMS SHALL BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK. 2. NO DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED, OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER AND/OR ENGINEER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL, OR DISCONNECTION, 1 WEEK NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD. 3. USE OF THE OWNER'S ELEVATORS AND BUILDING CORRIDORS FOR HANDLING OF THE OWNER'S AND REMOVED EQUIPMENT AND MATERIALS SHALL BE AT THE DIRECTION OF THE OWNER AND SHALL BE COORDINATED WITH HIS OPERATIONS. 4. ALL ITEMS REMOVED SHALL BECOME PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS PER OWNER'S INSTRUCTIONS, UNLESS INDICATED OTHERWISE. ALL ITEMS WHICH ARE NOT TO BE STORED ON SITE BY OWNERS SHALL BE REMOVED FROM THE BUILDING IMMEDIATELY. 5. DISCONNECT AND REMOVE ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, FLUES, REGISTERS, SUPPORTS, HANGERS, AND ALL OTHER MECHANICAL COMPONENTS MADE OBSOLETE BY THIS PROJECT. 6. PRIOR TO RENOVATION, CONTRACTOR TO RECORD ALL SUPPLY & RETURN MAIN AIRFLOWS & SUBMIT A COPY TO THE ENGINEER. ALL READINGS SHALL BE PERFORMED BY A CERTIFIED NEBB CONTRACTOR. COMPARE NEW EQUIPMENT VALUES & ALERT DISCREPANCIES FOR ENGINEER FEEDBACK. AT THE END OF THE PROJECT EXISTING SYSTEMS SHALL BE BALANCED TO PRE-CONSTRUCTION VALUES OR ADJUSTED VALUES BASED ON PRE-CONSTRUCTION TESTING ENGINEERING FEEDBACK. 7. ALL NEW, RELOCATED, OR EXISTING EQUIPMENT AFFECTED BY THIS SCOPE OF WORK SHALL BE REBALANCED BEFORE BEING PLACED IN SERVICE. 8. PROVIDE ALL REQUIRED CUTTING AND PATCHING AS REQUIRED TO COMPLETE THE INSTALLATION OF NEW MECHANICAL SYSTEM. PATCH ALL SURFACES TO MATCH AND MAINTAIN ALL FIRE RATINGS. 9. EXISTING ROOF CUTTING, FLASHING, SEALING, ETC. TO BE ACCOMPLISHED BY A ROOFING CONTRACTOR APPROVED BY THE EXISTING ROOF MANUFACTURER AND INSTALLED IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS SO AS NOT TO VOID ROOF WARRANTY. 10. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS SUCH ON THE DRAWINGS. ALL MATERIALS AND EQUIPMENT LISTED AS NEW MUST BE NEW. 11. THE FIRE PROOFING OF THE EXISTING STRUCTURE IS NOT TO BE REMOVED FOR THE INSTALLATION OF HANGERS, SUPPORTS AND DUCTWORK ETC. IF FIRE PROOFING IS DAMAGED, IT SHALL BE REPAIRED AT THE EXPENSE OF THE TRADE.



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Education Center, Animal Building, & Pavilion



Revision Schedule table with columns: Revision Number, Revision Date

Issued for Bid 05/01/2024

SHEET TITLE MECHANICAL LEGENDS & NOTES

DRAWN BY: MFMA/JV JOB NUMBER: 18050 CHECKED BY: WTM DATE: 04/18/2024

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ENERGY RECOVERY UNIT SCHEDULE (BASED ON GREENHECK)

SYMBOL	MODEL	DESIGN CONDITIONS				OUTDOOR AIR PERFORMANCE				EXHAUST AIR PERFORMANCE				WHEEL SUPPLY CONDITIONS		COOLING PERFORMANCE DATA							HEATING PERFORMANCE DATA					SUPPLEMENTAL HEATING DATA			ELECTRICAL DATA			APPROX. WEIGHT (LBS)	NOTES
		SUMMER		WINTER		CFM	ESP	FAN RPM	HP	CFM	ESP	FAN RPM	HP	DB°F/WB°F	DB°F/WB°F	TYPE	CIRCUITS	TOTAL MBH	SENSIBLE MBH	LDB °F	LWB °F	REHEAT MBH	TYPE	MBH INPUT	MBH OUTPUT	EDB °F	LDB °F	KW	MBH	ATR °F	MCA	MOP	VOLTAGE		
		OUTDOOR DB°F/WB°F	INDOOR DB°F/RH%	OUTDOOR DB°F/WB°F	INDOOR DB°F/RH%																														
ERU-1	RVE-85-58E-15A-1-D1	100.0/78.0	75.0/50	0.0/-1.0	72.0/35.0	3790	1.5	1369	3	3790	1.5	1296	3	81.8/67.2	52.5/44.5	PACKAGED HP	1	184.2	126.8	51.3	51.0	88.5	PACKAGED HP	-	81.1	55.2	75.0	41.0	113.8	-	218.1	225.0	208/3/60	5400	1,2,3,4,5,6,7,8,9,10
ERU-2	RVE-40-30D-5I-C-A1	100.0/78.0	75.0/50	0.0/-1.0	72.0/35.0	1020	1.3	1326	1	1020	1.3	1326	1	79.5/66.3	54.4/45.0	PACKAGED DX	1	61.0	38.4	45.2	45.2	13.6	INDIRECT GAS	100.0	81.0	54.4	127.8	-	-	-	32.3	45.0	208/3/60	3300	1,2,3,4,5,6,7,8,10

NOTES:

- PROVIDE WITH DISCONNECT. REFER TO ELECTRICAL PLANS FOR RATINGS AND COORDINATE WITH E.C.
- PROVIDE WITH DOUBLE WALL CONSTRUCTION, SUPPLY & EXHAUST VFDs, PERMATECTOR COATING, & AL ENERGY WHEEL.
- PROVIDE WITH FACTORY CONTROLS, BMS INTERFACE CARD, SUPPLY DUCT STATIC CONTROL, EXHAUST FAN TRACKING.
- PROVIDE WITH RAI, ACC, OAAW, & EAW BMS MONITORING POINTS.
- PROVIDE WITH WHEEL ROTATION SENSOR, DAMPER END SWITCHES, ENTHALPY ECONOMIZER, & ENERGY WHEEL VFD.
- PROVIDE WITH DIRTY FILTER SENSOR, MODULATING WHEEL FROST CONTROL, LOW LEAKAGE DAMPERS, & MERV 8 & 13 FILTERS.
- PROVIDE WITH SPRING ISOLATED ROOF CURB.
- PROVIDE WITH MODULATING REHEAT COIL, ELECTRO FIN COATING ON ALL COILS, UV LIGHTS & BIPOLAR IONIZATION.
- UNIT SHALL BE FIELD FIT WITH A DX HEATING COIL. REFER TO COIL SCHEDULE FOR ADDITIONAL INFORMATION.
- WEIGHT IS APPROXIMATE.

SPLIT FAN COIL AC UNIT SCHEDULE (BASED ON MITSUBISHI)

SYMBOL	MODEL	OA CFM	CFM	ESP	COOLING (95°F)		HEATING (°F)	ELECTRICAL DATA			NOTES	
					TOTAL MBH	SENSIBLE MBH	MBH	MCA	MOC	VOLTAGE		
SAC-1	MSY-GS12NA	-	424	-	12.0	10.0	-	1.0	POWERED BY OUTDOOR			1,2,4

SYMBOL	MODEL	COMP RLA	COMP LRA	NOMINAL MBH	EFFICIENCIES		ELECTRICAL DATA			NOTES
					SEER	HSPF	MCA	MAX. FUSE	VOLTAGE	
SCU-1	MUY-GS12NA	9.2	7.4	12.0	26.1	12.5	10	15	208/1/60	1,3,5,6

NOTES:

- PROVIDE WITH DISCONNECT. REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.
- PROVIDE WITH FACTORY CONDENSATE PUMP AND PROVIDE UNIT WITH HIGH ESP OPTION.
- INDOOR UNIT IS POWERED THROUGH THE OUTDOOR UNIT.
- PROVIDE WITH SPACE MOUNTED TEMPERATURE SENSOR AND THERMOSTAT.
- PROVIDE WITH AN 18" SLING STAND.
- EQUIPMENT PERFORMANCE DATA SELECTED AT AHRI CONDITIONS.

AIRFLOW REGULATOR SCHEDULE (BASED ON AMERICAN ALDES)

TAG	MODEL	SIZE (IN)	PRIMARY AIR FLOW (CFM)		INLET PRESSURE (IN WG)		NOTES
			MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	
CAR-4	CAR3-L4-R4	4	15	85	0.12	1.2	1,2,3
CAR-5	CAR3-L5-R5	5	35	180	0.12	1.2	1,2,3
CAR-6	CAR3-L6-R6	6	45	260	0.12	1.2	1,2,3

NOTES:

- REGULATORS SHALL BE FIELD SET TO THE APPROPRIATE AIRFLOW. REFER TO FLOOR PLANS & SCHEDULES FOR MORE INFORMATION.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- REGULATORS SHALL BE INSTALLED IN ACCESSIBLE LOCATION OR PROVIDED WITH CEILING ACCESS PANEL.

ELECTRIC HEATER SCHEDULE (BASED ON MARLEY)

SYMBOL	MODEL	AIRFLOW CFM	KW	MBH	ATR (°F)	ELECTRICAL DATA		NOTES
						AMPS	VOLTAGE	
ECL-1	QCH1202F	65	0.75	2.6	36.4	3.6	208/1/60	1,2,5
EUH-1	MUH0381-PRO-SSP	350	3.0	10.2	27.1	14.5	208/1/60	1,2,3,4

NOTES:

- PROVIDE WITH DISCONNECT. REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.
- CONTRACTOR SHALL FIELD CONVERT TO SCHEDULED KW AND VOLTAGE.
- PROVIDE WITH SMARTSERIES PLUS THERMOSTAT WITH TAMPER-PROOF COVER.
- PROVIDE WITH MOUNTING BRACKET KIT.
- PROVIDE WITH SURFACE-MOUNTING KIT, TAMPER-PROOF COVER, AND WALL-MOUNTED THERMOSTAT.

VAV BOX SCHEDULE (BASED ON PRICE)

TAG	MODEL	INLET	AIRFLOW RANGE (CFM)		VOLTAGE	NOTES
			MAXIMUM	MINIMUM		
VAV-1.2	SDVQ	8	550	190	115/1/60	1,2,3
VAV-3.4	SDVQ	8	450	180	115/1/60	1,2,3
VAV-5	SDVQ	8	470	180	115/1/60	1,2,3

NOTES:

- PROVIDE WITH 22 GA CONSTRUCTION, FIBERGLASS INSULATION & POLYMER LINED ATTENUATOR.
- PROVIDE WITH 115-24V TRANSFORMER & ELECTRICAL DISCONNECT.
- PROVIDE WITH DIGITAL CONTROLS & SPACE MOUNTED CO2 SENSOR.

REFRIGERANT LEAK DETECTOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	ELECTRICAL DATA		NOTES
			AMPS	VOLTAGE	
RLD-101-111	SENSAC	U4762R410A	0.044	120/1/60	1,2,3,4,5
RLD-201-213	SENSAC	U4762R410A	0.044	120/1/60	1,2,3,4,5
RLD-301-307	SENSAC	U4762R410A	0.044	120/1/60	1,2,3,4,5

NOTES:

- REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.
- SENSOR SHALL INCLUDE ONBOARD ALARM RELAYS, AUDIBLE HORN, & LED LIGHTING.
- UNIT SHALL BE RECESSED IN WALL IN A STANDARD 2-GANG ELECTRICAL BOX.
- UNIT SHOULD BE MOUNTED APPROXIMATELY 12" TO 18" ABOVE FINISHED FLOOR.
- INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.

VRV INDOOR UNIT SCHEDULE (BASED ON MITSUBISHI)

SYMBOL	CONDENSER SYMBOL	BRANCH CONTROLLER	MODEL	TYPE	NOMINAL CAPACITY	AIRFLOW CFM	OUTDOOR AIR CFM	COOLING DATA			HEATING DATA		ELECTRICAL DATA			APPROX. WEIGHT (LBS)	NOTES	
								RA °Fdb	RA °Fwb	TOTAL MBH	SENS. MBH	RA °Fdb	MBH	MCA	MOP			VOLTAGE
FC-101	HPU-100	BC-100	PEFY-P15NMAU-E4	MED. STATIC DUCTED	1.3 T	490	190	80.0	67.0	14.7	11.2	70.0	12.7	2.9	15	208/1/60	60	1,2,3,4
FC-102	HPU-100	BC-100	PEFY-P12NMAU-E4	MED. STATIC DUCTED	1.0 T	330	30	80.0	67.0	11.7	8.3	70.0	10.1	2.1	15	208/1/60	65	1,2,3,4
FC-103	HPU-100	BC-100	PEFY-P12NMAU-E4	MED. STATIC DUCTED	1.0 T	330	30	80.0	67.0	11.7	8.3	70.0	10.1	2.1	15	208/1/60	65	1,2,3,4
FC-104	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	550	80.0	67.0	29.5	21.3	70.0	25.5	2.9	15	208/1/60	70	1,2,3,4
FC-105	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	500	80.0	67.0	29.5	21.3	70.0	25.5	2.9	15	208/1/60	70	1,2,3,4
FC-106	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	450	80.0	67.0	29.5	21.3	70.0	25.5	2.9	15	208/1/60	70	1,2,3,4
FC-107	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	450	80.0	67.0	29.5	21.3	70.0	25.5	2.9	15	208/1/60	70	1,2,3,4
FC-108	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	470	80.0	67.0	29.5	21.3	70.0	25.5	2.9	15	208/1/60	70	1,2,3,4
FC-109	HPU-100	BC-100	PLFY-P08NFMU-E	CEILING CASSETTE	0.9 T	280	30	80.0	67.0	7.8	6.2	70.0	6.7	0.3	15	208/1/60	40	1,2,3,4
FC-110	HPU-100	BC-100	PLFY-P08NFMU-E	CEILING CASSETTE	0.9 T	280	30	80.0	67.0	7.8	6.2	70.0	6.7	0.3	15	208/1/60	40	1,2,3,4
FC-111	HPU-100	BC-100	PEFY-P15NMAU-E4	MED. STATIC DUCTED	1.3 T	490	100	80.0	67.0	14.7	11.2	70.0	12.7	2.9	15	208/1/60	60	1,2,3,4
FC-201	HPU-200	BC-200	PLFY-P12NFMU-E	CEILING CASSETTE	1.0 T	330	40	80.0	67.0	11.9	8.0	70.0	9.0	0.3	15	208/1/60	40	1,2,3,4
FC-202	HPU-200	BC-200	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	300	80.0	67.0	29.8	25.9	70.0	22.7	2.9	15	208/1/60	70	1,2,3,4
FC-203	HPU-200	BC-200	PEFY-P06NMAU-E4	MED. STATIC DUCTED	0.5 T	210	20	80.0	67.0	5.9	5.7	70.0	4.8	0.2	15	208/1/60	50	1,2,3,4
FC-204	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	80.0	67.0	5.9	5.7	70.0	4.8	0.2	15	208/1/60	40	1,2,3,4
FC-205	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	80.0	67.0	5.9	5.7	70.0	4.8	0.2	15	208/1/60	40	1,2,3,4
FC-206	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	80.0	67.0	5.9	5.7	70.0	4.8	0.2	15	208/1/60	40	1,2,3,4
FC-207	HPU-200	BC-200	PLFY-P24NEMU-E	CEILING CASSETTE	2.0 T	670	0	80.0	67.0	23.8	16.8	70.0	18.0	0.5	15	208/1/60	60	1,2,3,4
FC-208	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	80.0	67.0	5.9	5.7	70.0	4.8	0.2	15	208/1/60	40	1,2,3,4
FC-209	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	80.0	67.0	5.9	5.7	70.0	4.8	0.2	15	208/1/60	40	1,2,3,4
FC-210	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	80.0	67.0	5.9	5.7	70.0	4.8	0.2	15	208/1/60	40	1,2,3,4
FC-211	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	80.0	67.0	5.9	5.7	70.0	4.8	0.2	15	208/1/60	40	1,2,3,4
FC-212	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	80.0	67.0	5.9	5.7	70.0	4.8	0.2	15	208/1/60	40	1,2,3,4
FC-213	HPU-200	BC-200	PEFY-P36NMAU-E4	MED. STATIC DUCTED	3.0 T	1080	100	80.0	67.0	34.2	22.8	70.0	30.5	4.3	15	208/1/60	90	1,2,3,4
FC-301	HPU-300	BC-300	PEFY-P24NMAU-E4	MED. STATIC DUCTED	2.0 T	880	225	80.0	67.0	24.0	19.2	70.0	22.7	2.9	15	208/1/60	70	1,2,3,4
FC-302	HPU-300	BC-300	PEFY-P24NMAU-E4	MED. STATIC DUCTED	2.0 T	880	205	80.0	67.0	24.0	19.2	70.0	22.7	2.9	15	208/1/60	70	1,2,3,4
FC-303	HPU-300	BC-300	PEFY-P12NMAU-E4	MED. STATIC DUCTED	1.0 T	330	75	80.0	67.0	12.0	8.4	70.0	11.4	2.1	15	208/1/60	65	1,2,3,4
FC-304	HPU-300	BC-300	PEFY-P18NMAU-E4	MED. STATIC DUCTED	1.5 T	600	150	80.0	67.0	18.0	16.9	70.0	16.8	2.9	15	208/1/60	65	1,2,3,4
FC-305	HPU-300	BC-300	PEFY-P18NMAU-E4	MED. STATIC DUCTED	1.5 T	600	65	80.0	67.0	18.0	16.9	70.0	16.8	2.9	15	208/1/60	65	1,2,3,4
FC-306	HPU-300	BC-300	PEFY-P08NMAU-E4	MED. STATIC DUCTED	0.8 T	300	100	80.0	67.0	8.0	6.4	70.0	7.6	1.8	15	208/1/60	60	1,2,3,4
FC-307	HPU-300	BC-300	PEFY-P06NMAU-E4	MED. STATIC DUCTED	0.5 T	300	100	80.0	67.0	6.0	5.8	70.0	5.6	1.8	15	208/1/60	60	1,2,3,4

NOTES:

- PROVIDE WITH DISCONNECTS. REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.
- PROVIDE WITH MICRO CONDENSATE PUMP.
- REFER TO MANUFACTURERS' GUIDELINES FOR LINE SIZING, CONTROLS WIRING, AND ALL INSTALLATION INSTRUCTIONS.
- PROVIDE WITH SPACE MOUNTED THERMOSTAT OR SENSOR AS INDICATED ELSEWHERE ON PLANS.

VRV HEAT PUMP SCHEDULE (BASED ON MITSUBISHI)

SYMBOL	ASSOCIATED BC	MODEL	NOMINAL CAPACITY		COOLING DATA		HEATING DATA			EFFICIENCIES			ELECTRICAL DATA			APPROX. WEIGHT (LBS)	NOTES
			COOLING	HEATING	OAT °F	TOTAL MBH	OAT °F	TOTAL MBH	EER	IEER	COP	CONNECTIONS	MCA	RFS	VOLTAGE		
HPU-100	BC-100	PURY-EP288TSNU-A-BS	216.0	243.0	100.0	215.3	0.0	186.6	10.5	20.9	3.73	2	56.0/55.0	60/60	208/3/60	1400	1,2,3,4,5,6,7
HPU-200	BC-200	PURY-EP144TSNU-A-BS	144.0	160.0	100.0	147.0	0.0	110.9	10.0	21.9	3.68	1	60.0	60	208/3/60	1300	1,2,3,4,5,6,7
HPU-300	BC-300	PURY-EP120TNU-A1	120.0	135.0	100.0	124.0	0.0	103.7	10.5	22.35	3.875	1	56.0	60	208/3/60	1300	1,2,3,4,5,6,7

NOTES:

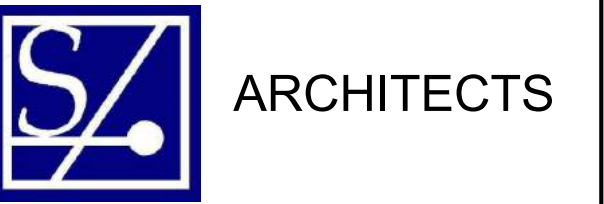
- PROVIDE WITH DISCONNECTS. REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.
- UNIT CONSISTS OF A MULTIPLY UNITS COUPLED TOGETHER. PROVIDE WITH TWINNING KITS. EACH UNIT REQUIRES SEPARATE ELECTRICAL CONNECTIONS, DISCONNECTS & LOW AMBIENT CONTROLS.
- REFER TO MANUFACTURERS' GUIDELINES FOR LINE SIZING, AND ALL INSTALLATION INSTRUCTIONS.
- PROVIDE EACH SYSTEM WITH MULTI CONNECTION PIPING MANIFOLDED BC CONTROLLERS & BALL VALVE FOR ISOLATION AT EACH REFRIGERATION PIPE RUNOUT.
- PROVIDE AG-150 PACKAGE, WEB BASED, FACTORY START-UP AND ALL ADDITIONAL ACCESSORIES REQUIRED FOR COMPLETE SYSTEM OPERATION.
- FURNISH AND INSTALL ALL REQUIRED INTERLOCKING CONTROLS & PIPING FOR REQUIRED SEQUENCE OF OPERATIONS.
- REFER TO PIPING DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDE WITH SEA-COAST COATING.

BRANCH CONTROLLER SCHEDULE (BASED ON MITSUBISHI)

SYMBOL	MODEL	TYPE	ASSOCIATED HEAT PUMP	CONNECTED CAPACITY (MBH)	PORTS	ELECTRICAL DATA		APPROX. WEIGHT (LBS)	NOTES
						MCA	VOLTAGE		
BC-100	CMB-P1012NU-JA1	MAIN	HPU-100	215.3	12	1.2	208/1/60	150	1,2,3,4
BC-200	CMB-P1016NU-JA1	MAIN	HPU-200	179.7	16	1.6	208/1/60	150	1,2,3,4
BC-300	CMB-P108NU-JA2	MAIN	HPU-300	110.0	8	0.9	208/1/60	60	1,2,3,4

NOTES:

- PROVIDE WITH DISCONNECT. REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.
- PROVIDE WITH FULL PORT BALL VALVES.
- PROVIDE WITH CONDENSATE PUMP.
- REFER TO MANUFACTURERS' GUIDELINES FOR LINE SIZING, CONTROLS WIRING, AND ALL INSTALLATION INSTRUCTIONS.



CONDENSING UNIT SCHEDULE (BASED ON TRANE)

SYMBOL	EVAPORATOR SYMBOL	MODEL	NOMINAL CAPACITY	COMPRESSOR DATA			CONDENSER FAN DATA			ELECTRICAL DATA			NOTES
				NO.	NO. 1 RLA	NO. 2 RLA	NO.	NO. 1 FLA	NO. 2 FLA	MCA	MOP	VOLTAGE	
CU-1	AHU-1	TTA18043CAA**BS01	15.0 TONS	2	27.6	22.4	2	4.3	4.3	66.0	90.0	208/3/60	1,2
CU-1	AHU-1	TTA18043CAA**BS01	15.0 TONS	2	27.6	22.4	2	4.3	4.3	66.0	90.0	208/3/60	1,2

NOTES:
 1. PROVIDE WITH DISCONNECT. REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.
 2. PROVIDE WITH HAIL GUARD AND CRANKCASE HEATER.

AIR DEVICE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	THROW	CFM	NECK SIZE	NOTES
S-1	PRICE	SPD	SQUARE PLAQUE	SEE PLANS	20-110	6Ø	1,2,3
S-2	PRICE	S20	LOUVERED GRILLE	DOUBLE DEFL.	40-150	12x6	1,2,6
S-3	PRICE	HCD	HIGH CAPACITY DRUM	DOUBLE DEFL.	120	6x10	1,2,6
S-4	PRICE	SPD	SQUARE PLAQUE	4-WAY	130-210	8Ø	1,2,3
S-5	PRICE	RCD	ROUND CONE	RADIAL	150-220	8Ø	1,2,7
S-6	PRICE	RCD	ROUND CONE	RADIAL	260-300	10Ø	1,2,7
S-7	PRICE	SPD	SQUARE PLAQUE	4-WAY	360	10Ø	1,2,3
S-8	CAPTIVEAIRE	DI-PSP	PERFORATED GRILLE	-	400	10Ø	1,2,4,8
S-9	PRICE	RCD	ROUND CONE	RADIAL	440	12Ø	1,2,7
S-10	PRICE	HCD	HIGH CAPACITY DRUM	DOUBLE DEFL.	675	12x18	1,2,6
R-1	PRICE	535	LOUVERED GRILLE	-	210-300	10x10	1,2,3,5
R-2	PRICE	535	LOUVERED GRILLE	-	440-490	14x14	1,2,4,5
R-3	PRICE	535	LOUVERED GRILLE	-	600-630	16x16	1,2,4,5
R-4	PRICE	535	LOUVERED GRILLE	-	880	20x14	1,2,4,5
R-5	PRICE	535	LOUVERED GRILLE	-	1080	20x16	1,2,4,5
R-6	PRICE	535	LOUVERED GRILLE	-	1400	22x22	1,2,4
R-7	PRICE	535	LOUVERED GRILLE	-	3000	40x24	1,2,4
E-1	PRICE	PDDR	PERFORATED GRILLE	-	30-100	6Ø	1,2,3
E-2	PRICE	535	LOUVERED GRILLE	-	70-200	6x6	1,2,3,5
E-3	PRICE	535	LOUVERED GRILLE	-	150-170	8Ø	1,2,3,5
E-4	PRICE	535	LOUVERED GRILLE	-	235-260	10x10	1,2,3
T-1	PRICE	STG	TRANSFER GRILLE	-	80-100	16x8	1,2,9

NOTES:
 1. CONTRACTOR SHALL PROVIDE ALL NECESSARY DUCT TRANSITIONS AND MOUNTING HARDWARE AS REQUIRED. CONTRACTOR TO CONFIRM MOUNTING TYPE.
 2. ARCHITECT TO VERIFY COLOR AND FINISH.
 3. BASED ON 12x12 FACE SIZE.
 4. BASED ON 24x24 FACE SIZE.
 5. PROVIDE WITH LAY-IN PANEL WHERE REQUIRED.
 6. PROVIDE WITH OBD.
 7. PROVIDE WITH 4A CORE MODEL.
 8. PROVIDE WITH RADIAL DAMPER FOR BALANCING.
 9. BASED ON 0.75 SQ. FT. FREE AREA.

- S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER
 - SIZE
 - CFM

AIR HANDLING UNIT SCHEDULE (BASED ON TRANE)

SYMBOL	MODEL	NOMINAL CAPACITY	TOTAL CFM	O.A. CFM	ESP (IN)	FAN RPM	COOLING PERFORMANCE DATA						HEATING PERFORMANCE DATA						CIRCUIT 2 GAS HEAT DATA			ELECTRICAL DATA			APPROX. WEIGHT (LBS)	NOTES	
							TOTAL MBH	SENS. MBH	EDB °F	EWB °F	LDB °F	LWB °F	APD	INPUT MBH	OUTPUT MBH	MIN MBH	MIN IN. W.C.	MAX IN. W.C.	TURNDOWN	FLA	MCA	VOLTAGE	FAN HP	FLA			VOLTAGE
AHU-1	CSAA012	15.0 TONS	6000	1200	4.2	1262	249.0	164.5	80.0	67.0	55.0	53.5	0.82 IN.	450.0	360.0	53.0	7.0	14.0	10:1	6.52	8.15	208/1/60	7.5	23.3	208/3/60	3000	1,2,3,4,5,6
AHU-2	CSAA012	15.0 TONS	6000	1200	4.2	1262	249.0	164.5	80.0	67.0	55.0	53.5	0.82 IN.	450.0	360.0	53.0	7.0	14.0	10:1	6.52	8.15	208/1/60	7.5	23.3	208/3/60	3000	1,2,3,4,5,6

NOTES:
 1. PROVIDE WITH DISCONNECT. COORDINATE LOCATION WITH E.C.
 2. PROVIDE WITH SUPPLY AIR TEMPERATURE SENSOR (SAT), MIXED AIR TEMPERATURE SENSOR (MAT), LOW TEMPERATURE THERMOSTAT, AND SUPPLY FAN STATUS SENSOR.
 3. PROVIDE WITH FULL ENTHALPY ECONOMIZER, CO2 CONTROL, HOT GAS REHEAT, AND HOT GAS BYPASS.
 4. PROVIDE WITH FIELD-POWERED CONVENIENCE OUTLET.
 5. PROVIDE WITH CONDENSATE PUMP AND CONDENSATE NEUTRALIZATION KIT.
 6. E.C TO DETERMINE 3Ø MCA AND RFS IN FIELD.

KITCHEN MAKE UP AIR UNIT SCHEDULE (BASED ON CAPTIVEAIRE)

SYMBOL	MODEL	ASSOCIATED EXHAUST FAN	COOLING PERFORMANCE DATA						HEATING PERFORMANCE DATA						REHEAT PERFORMANCE DATA				FAN			ELECTRICAL DATA			APPROX. WEIGHT (LBS)	NOTES	
			EDB °F	EWB °F	LDB °F	LWB °F	DP °F	TOTAL MBH	SENSIBLE MBH	FUEL	MIN. INWG	MBH IN	MBH OUT	ATR °F	LDB °F	LWB °F	DESIRED MBH	MAX MBH	MOISTURE REMOVAL RATE	CFM	HP	ESP	MCA	MOCP			VOLTAGE
MAU-1	CASRTU3-1300-18-15T	KEF-1	95.0	75.0	55.3	55.3	55.4	185.6	120.9	NG	7.0	300.0	243.0	80.0	72.0	61.6	50.5	129.6	56.0 LBS/HR	2800	3.0	1.0	64.3	70.0	208/3/60	2600	1,2,3

NOTES:
 1. PROVIDE WITH DISCONNECT. COORDINATE WITH E.C.
 2. PROVIDE WITH VFD AND INVERTER DUTY MOTOR.
 3. REFER TO CAPTIVEAIRE DRAWINGS FOR ADDITIONAL ACCESSORIES AND NOTES.

KITCHEN EXHAUST FAN SCHEDULE (BASED ON CAPTIVEAIRE)

SYMBOL	ASSOCIATED HOOD	MAKE	MODEL	TYPE	DRIVE	CFM	ESP (IN)	SONNES	MOTOR DATA				UNIT WEIGHT (LBS.)	NOTES
									RPM	FLA	VOLTAGE	HP		
KEF-1	HD-1	CAPTIVEAIRE	SIF18DD	IN-LINE	DIRECT	2775	1.75	16.9	2.0	1632	5.7	208/3/60	400	1,2,3,4,5
DEF-1	HD-2	CAPTIVEAIRE	SIF11DD-SS	IN-LINE	DIRECT	525	0.5	5.7	0.5	1174	6.3	208/3/60	200	1,2,3,4

NOTES:
 1. PROVIDE DISCONNECT. COORDINATE WITH E.C.
 2. PROVIDE WITH VFD AND HEAVY DUTY INVERTER MOTOR.
 3. FAN SHALL BE UL782 LISTED FOR RESTAURANT APPLICATIONS.
 4. REFER TO CAPTIVEAIRE DRAWINGS FOR ADDITIONAL ACCESSORIES AND NOTES.
 5. MOUNT IN ATTIC ON PLYWOOD PLATFORM.

EXHAUST HOOD SCHEDULE (BASED ON CAPTIVEAIRE)

SYMBOL	SERVING	HOOD TYPE	MODEL	ASSOCIATED EXHAUST FAN	NOMINAL HOOD LENGTH	FILTER TYPE	EXHAUST						NOTES
							TOTAL CFM	RISERS				SP (inwg)	
								QUANTITY	SIZE	CFM EA.	HP		
HD-1	COOKLINE	TYPE I	6024 ND-2	KEF-1	12'-11"	CAPTRATE SOLO FILTER	2775	1	18Ø	2775	1.086	1,2,3,4	
HD-2	DISHWASHER	TYPE II	4224 VHB-2	DEF-1	3'-6"	-	525	1	12Ø	525	0.051	1,2,3	

NOTES:
 1. ALL SUPPLY AND EXHAUST CONNECTIONS SHALL BE FIELD CUT.
 2. PROVIDE WITH LED LIGHTING. PROVIDE WITH ANSUL FIRE SUPPRESSION SYSTEM & PIPING.
 3. PROVIDE WITH TIMER SWITCH FOR RESPECTIVE EXHAUST FAN.
 4. EXHAUST DUCTWORK SHALL BE WELDED LIQUID TIGHT TO HOOD CONNECTION.

EXHAUST FAN SCHEDULE (BASED ON GREENHECK)

SYMBOL	MAKE	MODEL	TYPE	DRIVE	CFM	ESP (IN)	MOTOR DATA					UNIT WEIGHT (LBS.)	NOTES	
							HP	RPM	MCA	FLA	MOP			VOLTAGE
EF-1	GREENHECK	SQ-90-VG	IN-LINE	DIRECT	300	0.7	1/10	1725	2.0	1.4	15	115/1/60	65	1,2,3,4,5
EF-2	GREENHECK	SQ-90-VG	IN-LINE	DIRECT	300	0.7	1/10	1725	2.0	1.4	15	115/1/60	65	1,2,3,4,5
CEF-1	GREENHECK	SP-A50-90-VG	CEILING	DIRECT	85	0.7	-	887	-	0.3	15	115/1/60	20	1,2,3,5,6
CEF-2	GREENHECK	SP-A50-90-VG	CEILING	DIRECT	50	0.5	-	808	-	0.3	15	115/1/60	20	1,2,3,4,5

NOTES:
 1. PROVIDE DISCONNECT. COORDINATE WITH E.C.
 2. PROVIDE WITH VARI-GREEN EC MOTOR.
 3. PROVIDE WITH BACKDRAFT DAMPER.
 4. PROVIDE WITH ISOLATION KIT. ALL NECESSARY MOUNTING HARDWARE, AND PROGRAMMABLE TIME CLOCK (TAMPER PROOF).
 5. PROVIDE WITH ALL DUCT TRANSITIONS AS REQUIRED.
 6. PROVIDE WITH ISOLATION KIT. ALL NECESSARY MOUNTING HARDWARE, AND REVERSE-ACTING THERMOSTAT.



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Revision Schedule

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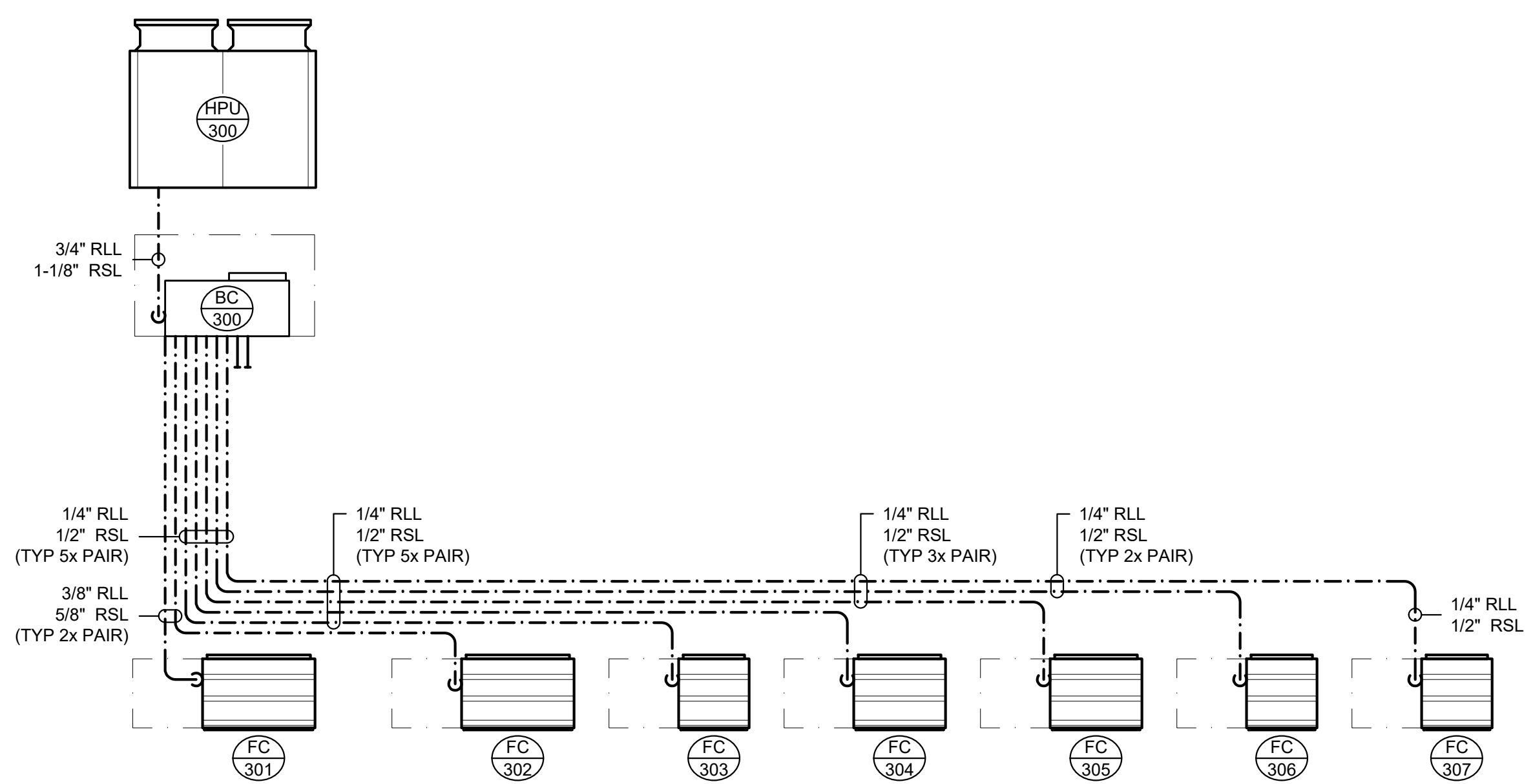
MECHANICAL
 SCHEDULES

DRAWN BY: MFMA/JV JOB NUMBER: 18050

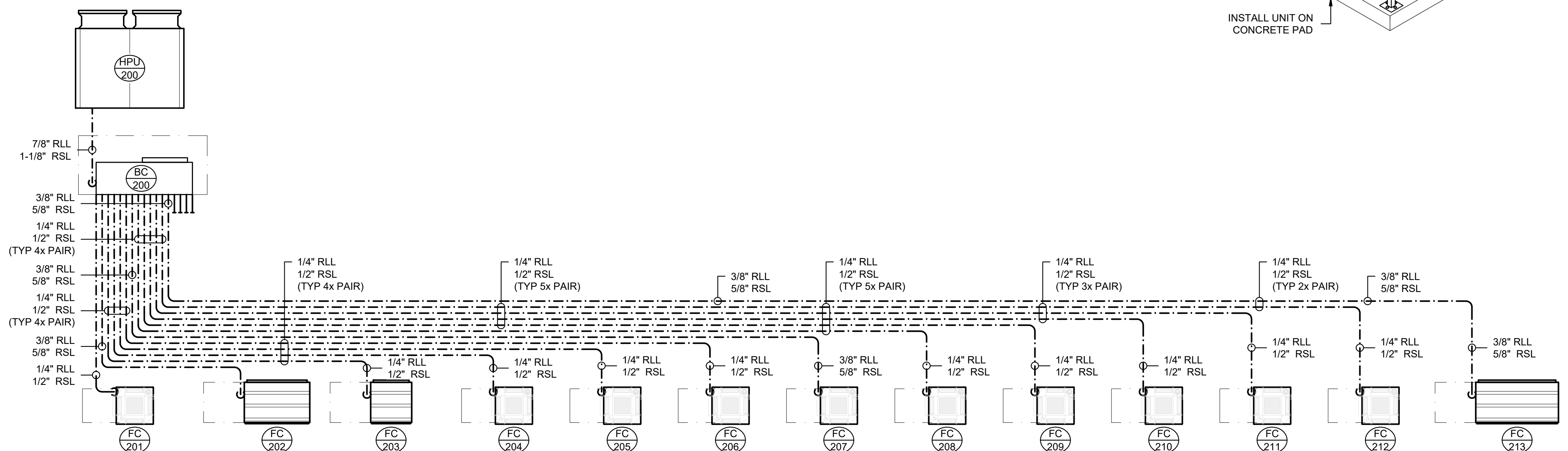
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M3.2

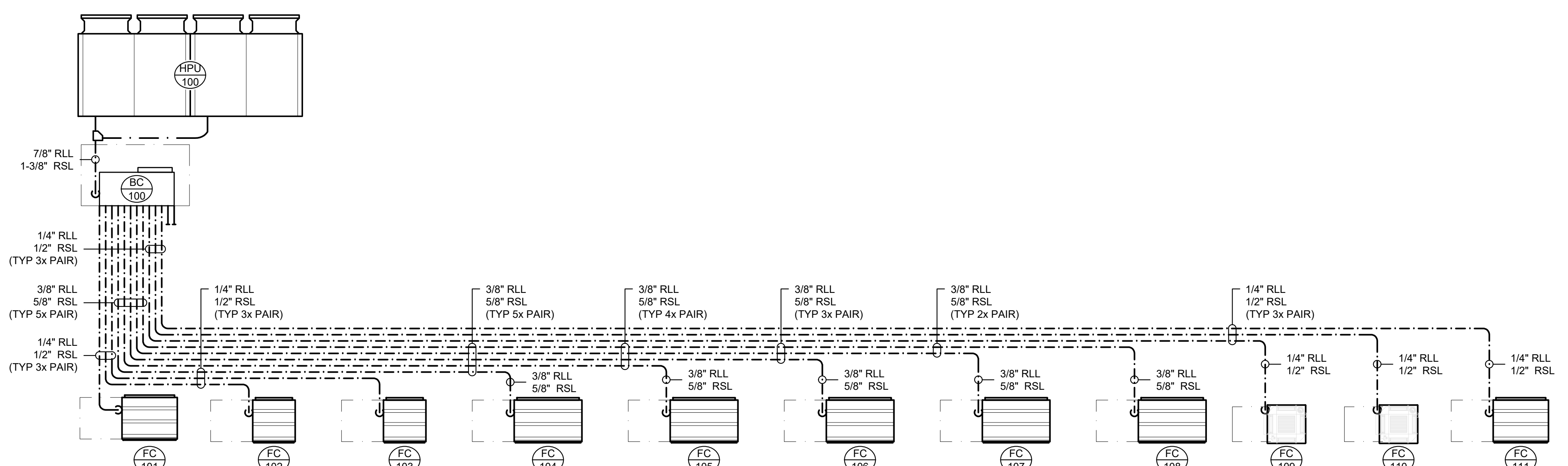
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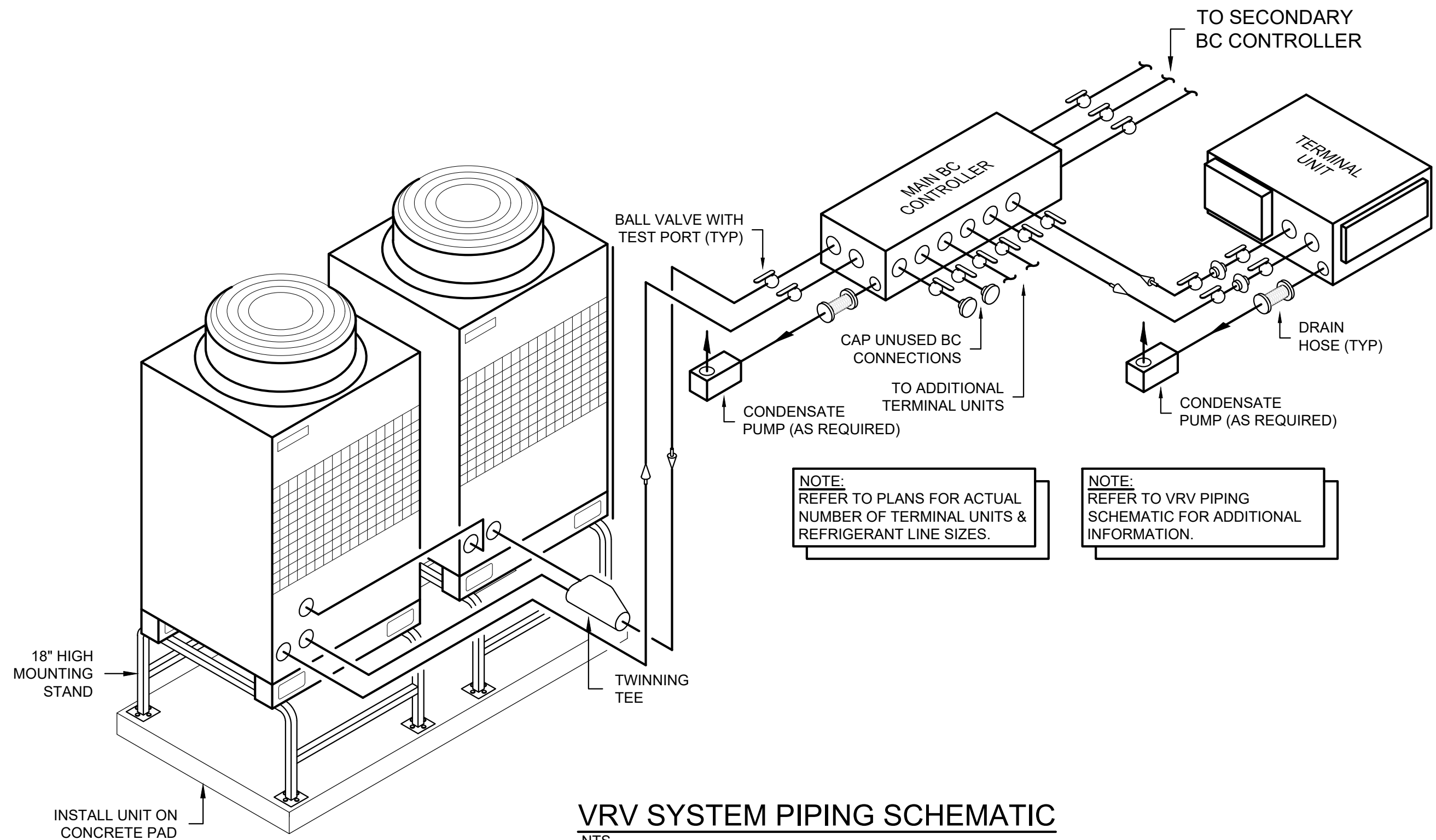
VRF PIPING RISER DIAGRAM - ANIMAL BUILDING (LOWER LEVEL)
NTS



VRF PIPING RISER DIAGRAM - ANIMAL BUILDING (UPPER LEVEL)
NTS



VRF PIPING RISER DIAGRAM - ANIMAL BUILDING (LOWER LEVEL)
NTS

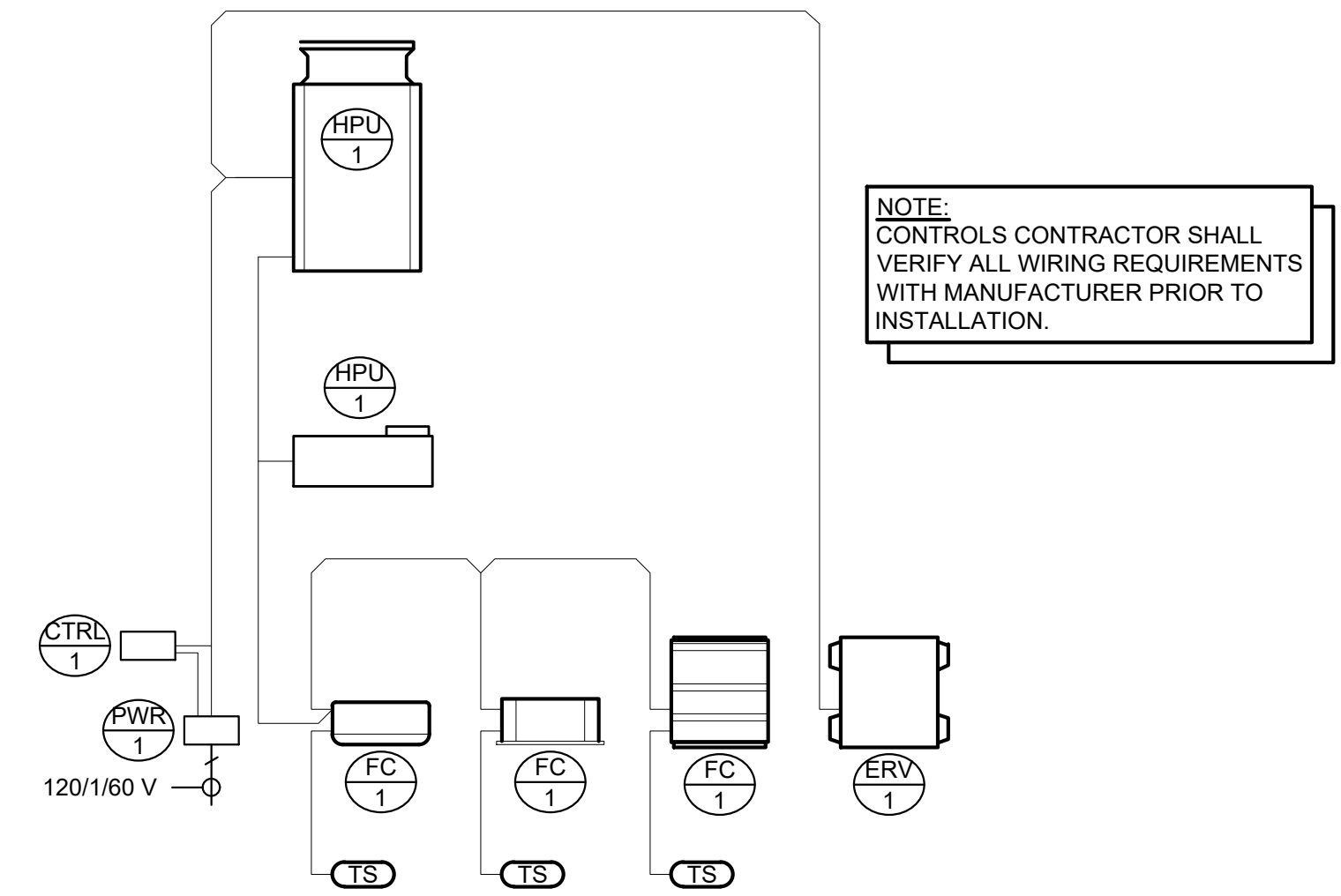


VRV SYSTEM PIPING SCHEMATIC
NTS

NOTE: REFER TO PLANS FOR ACTUAL NUMBER OF TERMINAL UNITS & REFRIGERANT LINE SIZES.

NOTE: REFER TO VRV PIPING SCHEMATIC FOR ADDITIONAL INFORMATION.

- NOTES FOR ALL VRV SYSTEMS:
1. PIPE SIZES ARE APPROXIMATE. REFER TO MANUFACTURER'S DESIGN DOCUMENTS FOR FINAL PIPING SIZES.
 2. ALL PIPING AND ACCESSORIES SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 3. CONTRACTOR SHALL FIELD COORDINATE ACTUAL LINE SET LENGTHS WITH MANUFACTURER PRIOR TO INSTALLATION.
 4. CONTRACTOR SHALL BE CERTIFIED TO PROVIDE FACTORY STARTUP AND SUPERVISION TO INSTALL VRV SYSTEMS BY THE SYSTEM MANUFACTURER.



TYPICAL VRV CONTROLS RISER DIAGRAM
NTS

NOTE: CONTROLS CONTRACTOR SHALL VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



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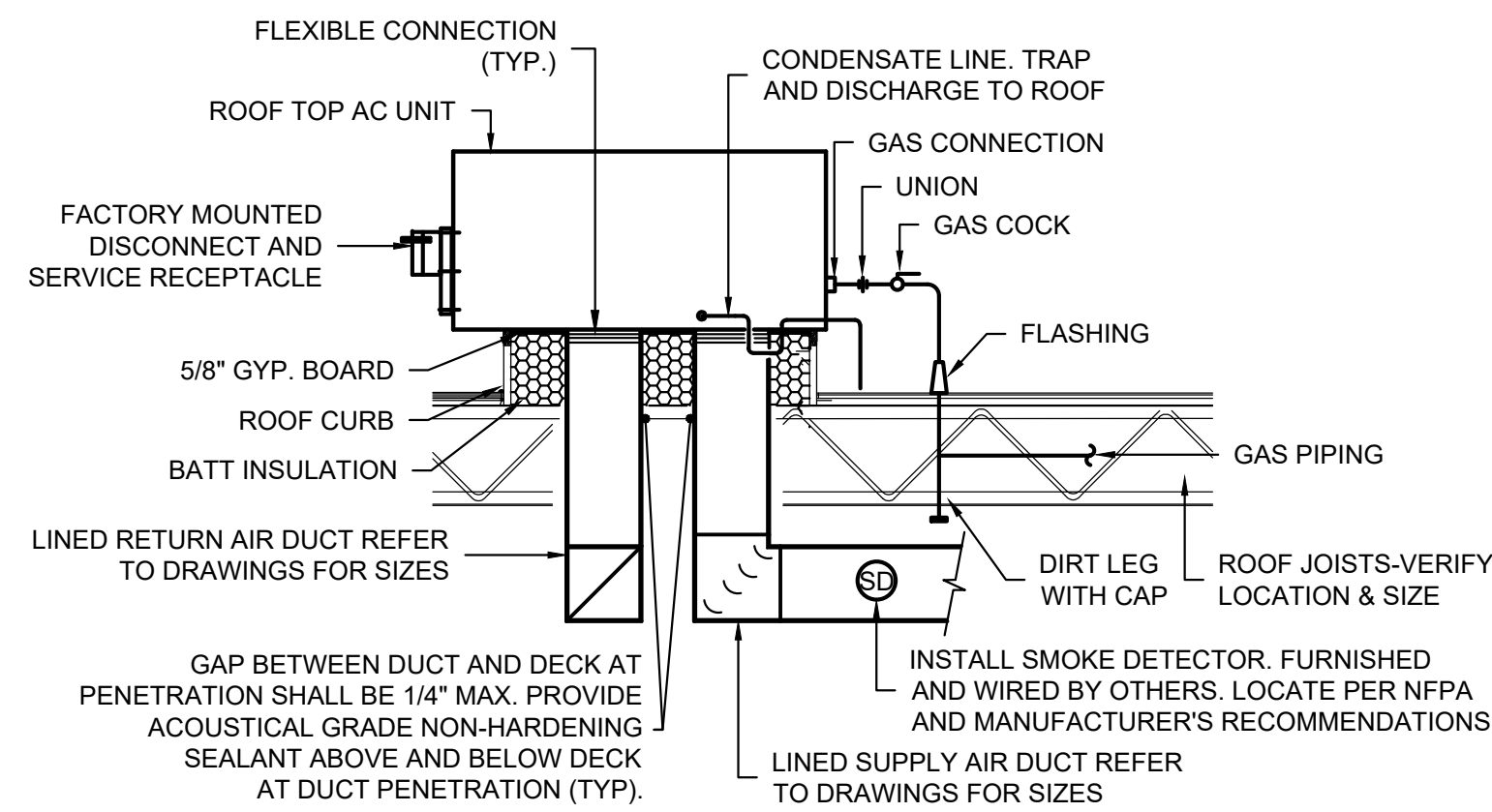
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**MECHANICAL
DETAILS**

DRAWN BY: MFM/AJV JOB NUMBER: 18050
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M4.1

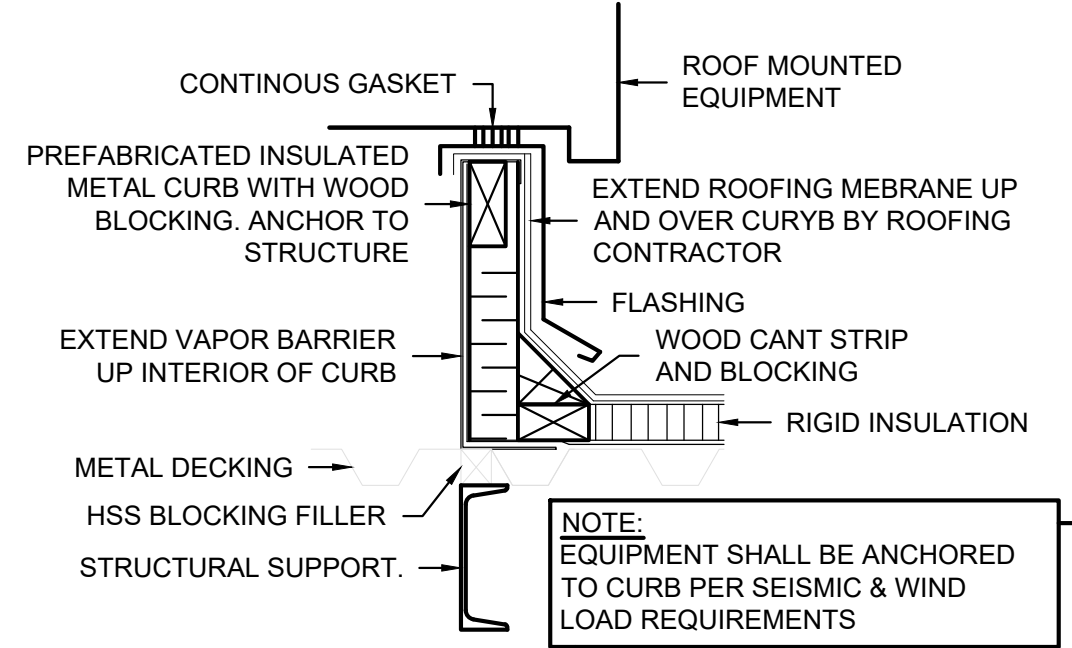
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NOTE:

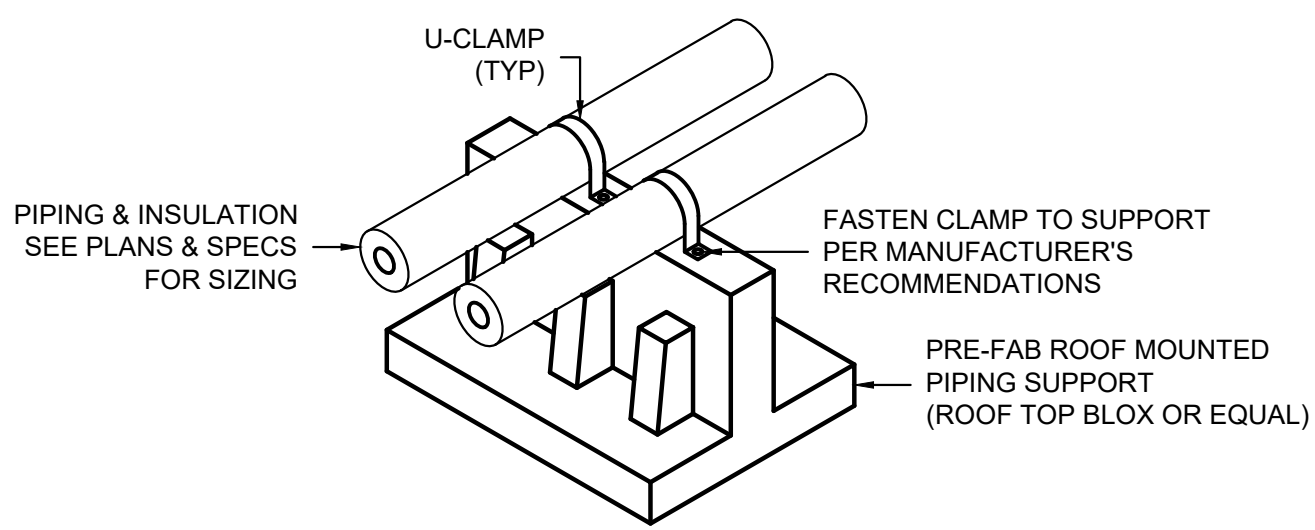
1. INSTALLATION TO BE PER APPROVED ROOFING SYSTEM MANUFACTURER'S REQUIREMENTS.
2. ANY UNITS INSTALLED WITHIN 10 FEET OF A ROOF EDGE. PROVIDE GUARD NOT LESS THAN 30" BEYOND EACH UNIT END. TOP OF GUARD SHALL BE LOCATED NOT LESS THAN 42" ABOVE THE SURFACE. GUARD TO BE FABRICATED & SUPPORTED PER BUILDING CODE. TYPICAL FOR ALL NEW AND EXISTING EQUIPMENT.
3. ALL NEW EQUIPMENT BEING INSTALLED SHALL BE COORDINATED WITH STRUCTURAL ENGINEER AND ARCHITECT.
4. ROOFTOP UNITS SHALL BE SET UPON THE FACTORY ROOFCURB WITH GASKET. STAINLESS STEEL FASTENERS SHALL BE INSTALLED THROUGH THE ROOFTOP UNIT CURB RAIL INTO THE FACTORY ROOFCURB NAILING STRIP AT 12" INTERVALS. ALTERNATIVELY, FACTORY RESTRAINT BRACKETS OR DIRECT BOLTING MAY BE EMPLOYED.

ROOFTOP UNIT DETAIL
NTS

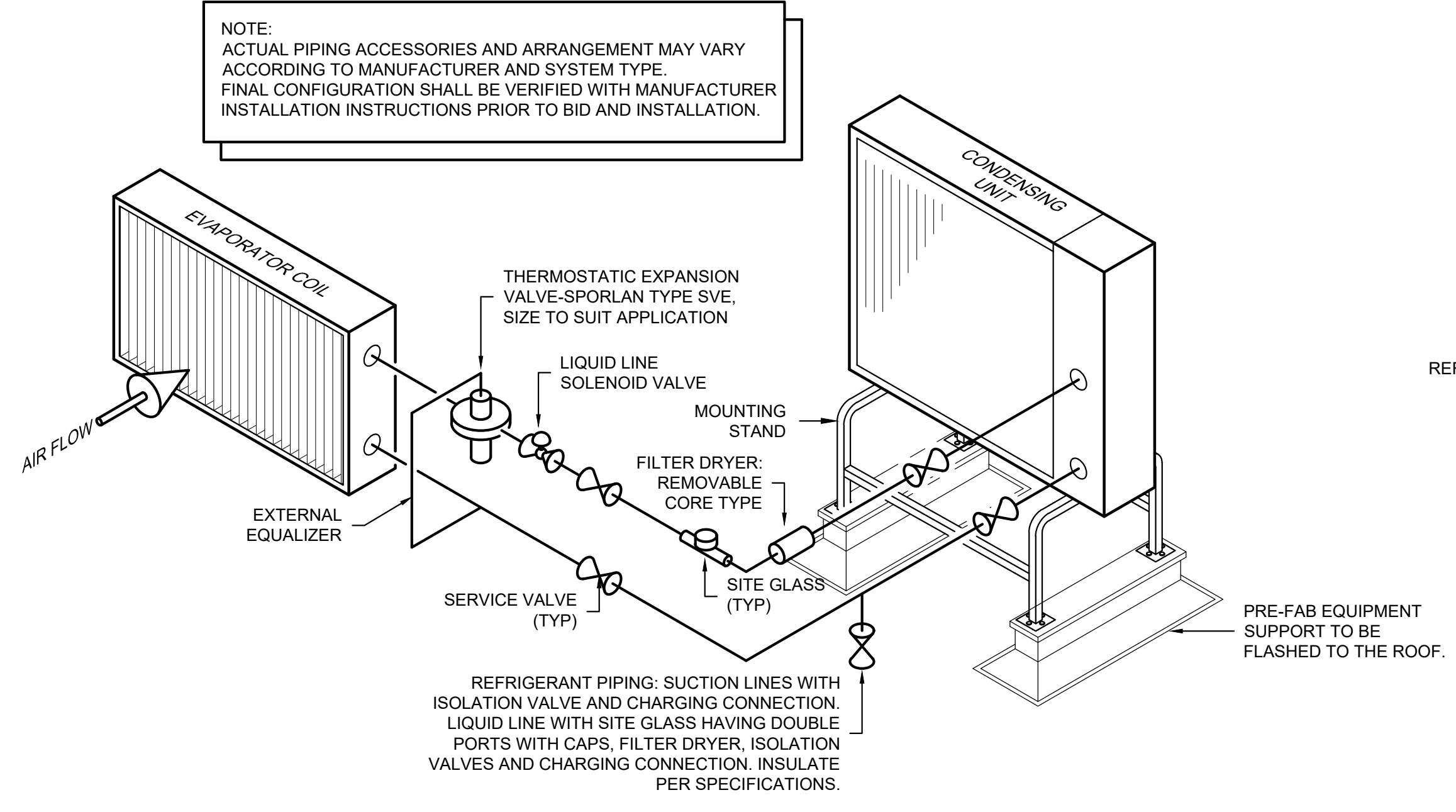


NOTE:
EQUIPMENT SHALL BE ANCHORED TO CURB PER SEISMIC & WIND LOAD REQUIREMENTS

ROOF CURB INSTALLATION DETAIL
NTS



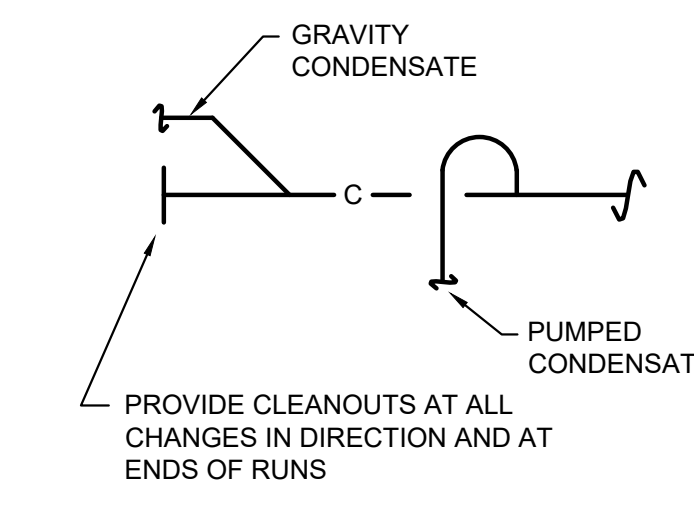
ROOF MOUNTED PIPING SUPPORT DETAIL
NTS



NOTE:
ACTUAL PIPING ACCESSORIES AND ARRANGEMENT MAY VARY ACCORDING TO MANUFACTURER AND SYSTEM TYPE. FINAL CONFIGURATION SHALL BE VERIFIED WITH MANUFACTURER INSTALLATION INSTRUCTIONS PRIOR TO BID AND INSTALLATION.

REFRIGERANT PIPING: SUCTION LINES WITH ISOLATION VALVE AND CHARGING CONNECTION. LIQUID LINE WITH SITE GLASS HAVING DOUBLE PORTS WITH CAPS. FILTER DRYER, ISOLATION VALVES AND CHARGING CONNECTION. INSULATE PER SPECIFICATIONS.

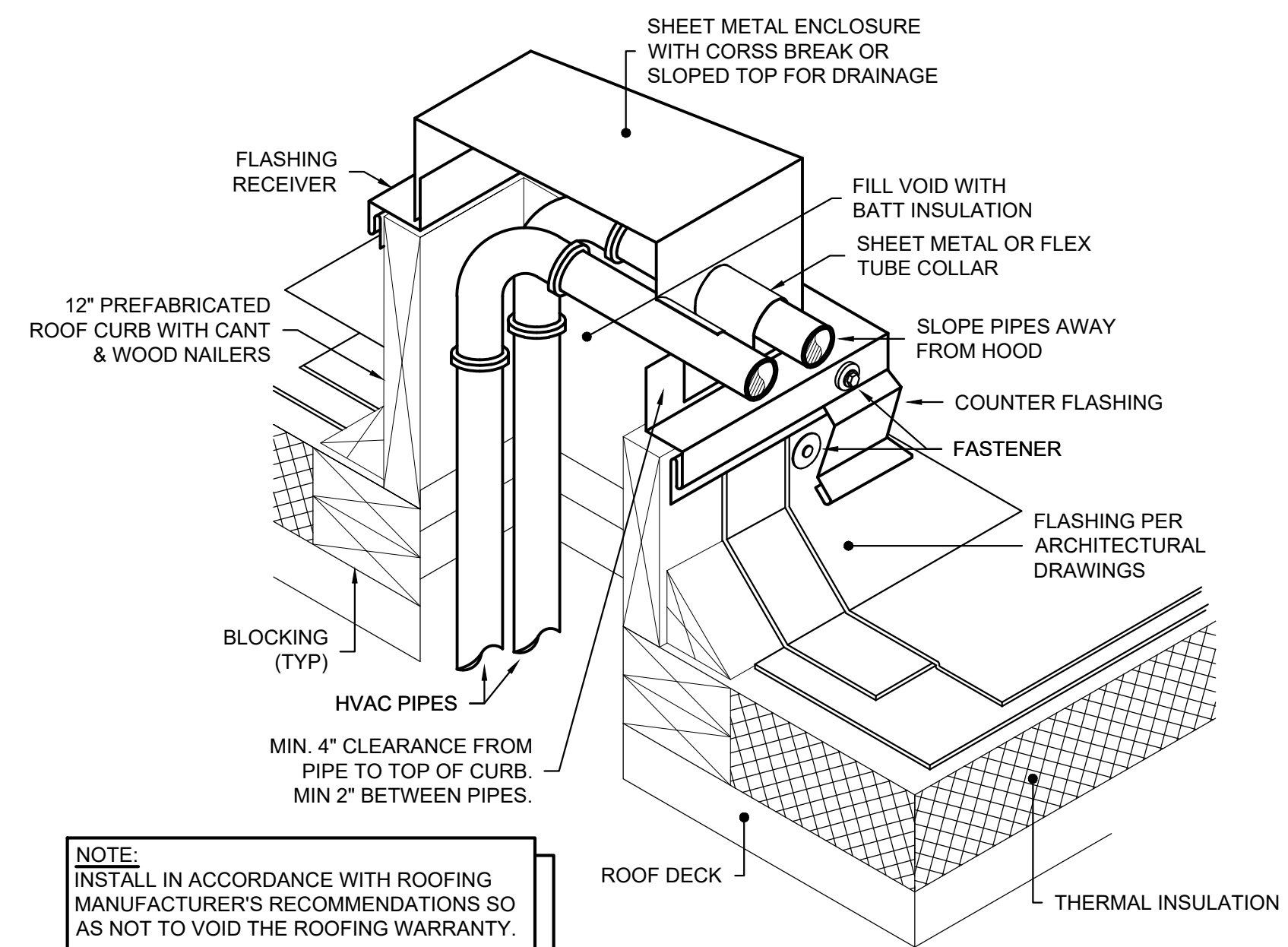
REFRIGERANT PIPING DIAGRAM
NO SCALE



NOTES:

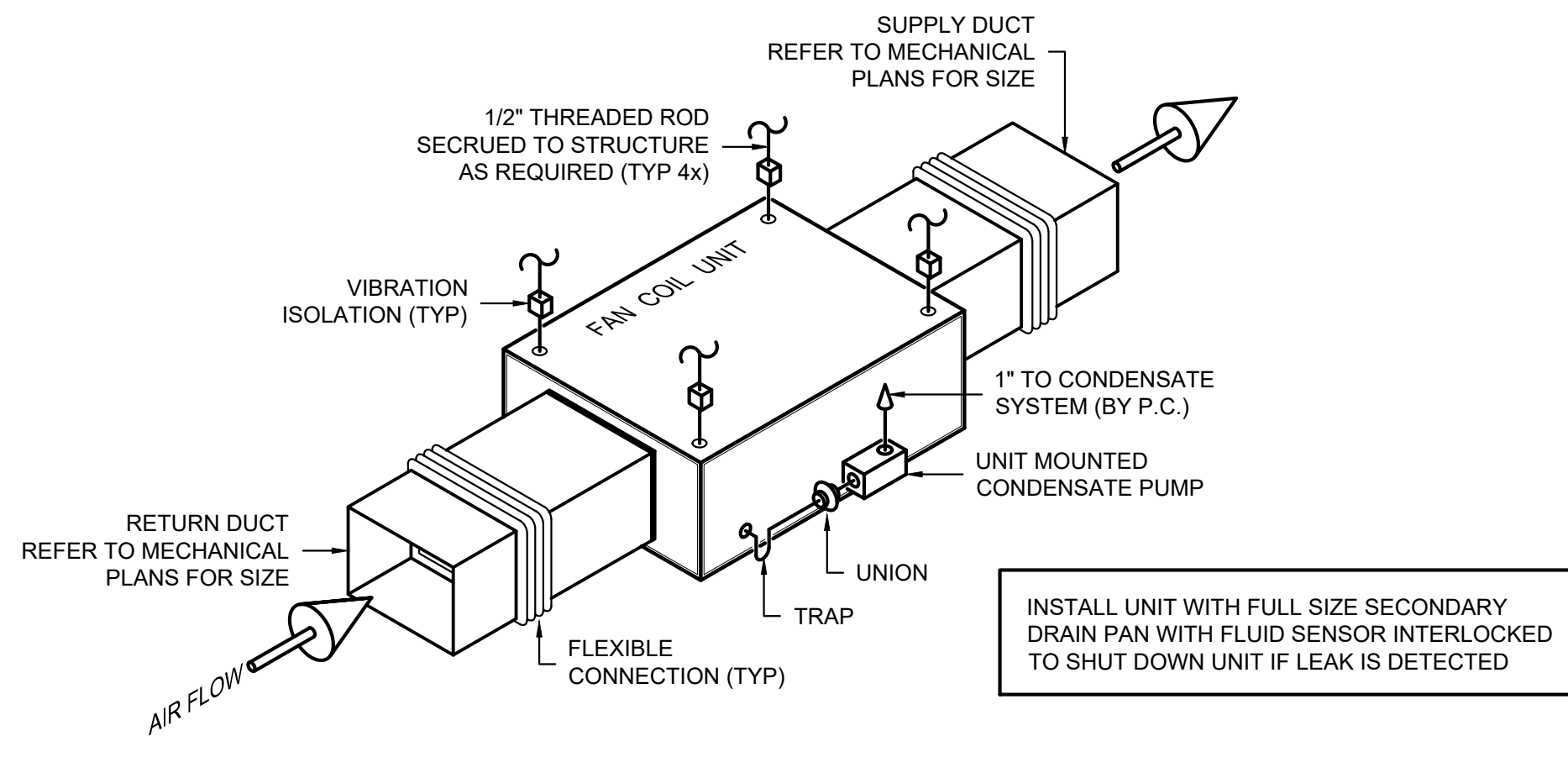
1. ALL BRANCH CONNECTIONS TO MAINS SHALL BE AT 45 DEGREES.
2. GATHER & RUN ALL CONDENSATE TO TANK ROOM. PROVIDE 120V CONDENSATE PUMPS & ELECTRICAL CIRCUITING AS NEEDED.

CONDENSATE PIPING DETAIL
NO SCALE



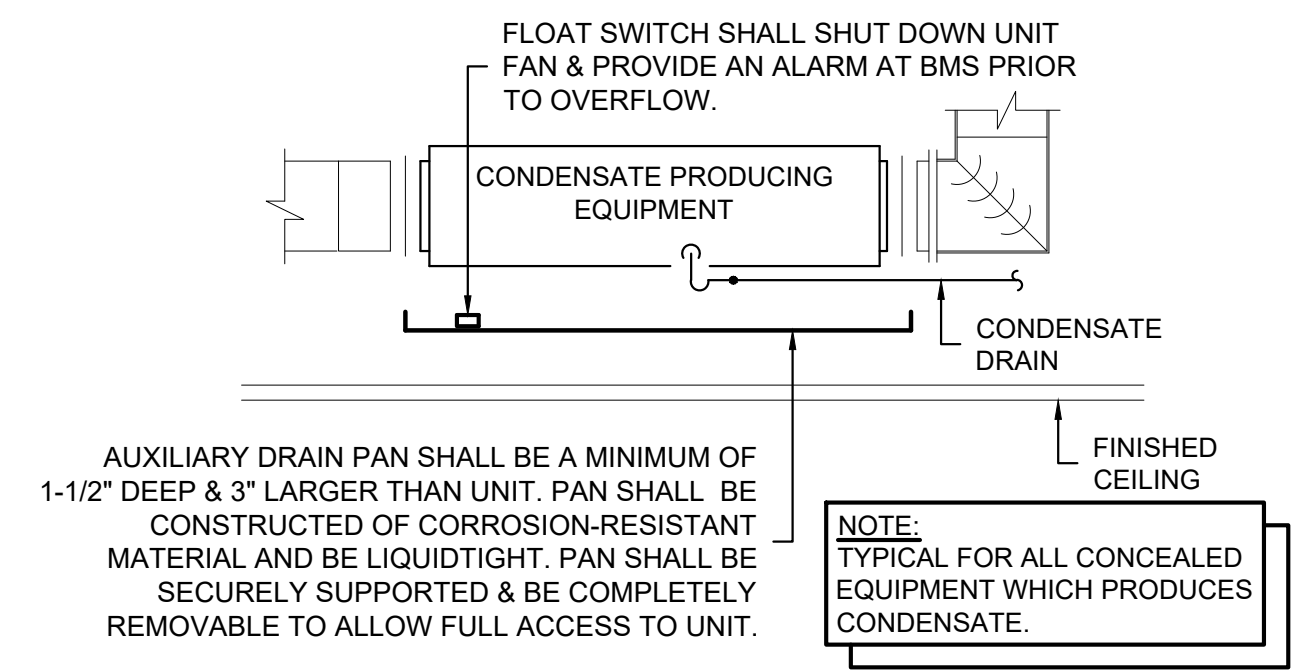
NOTE:
INSTALL IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS SO AS NOT TO VOID THE ROOFING WARRANTY.

MULTIPLE PIPES THRU ROOF DETAIL
NTS



INSTALL UNIT WITH FULL SIZE SECONDARY DRAIN PAN WITH FLUID SENSOR INTERLOCKED TO SHUT DOWN UNIT IF LEAK IS DETECTED

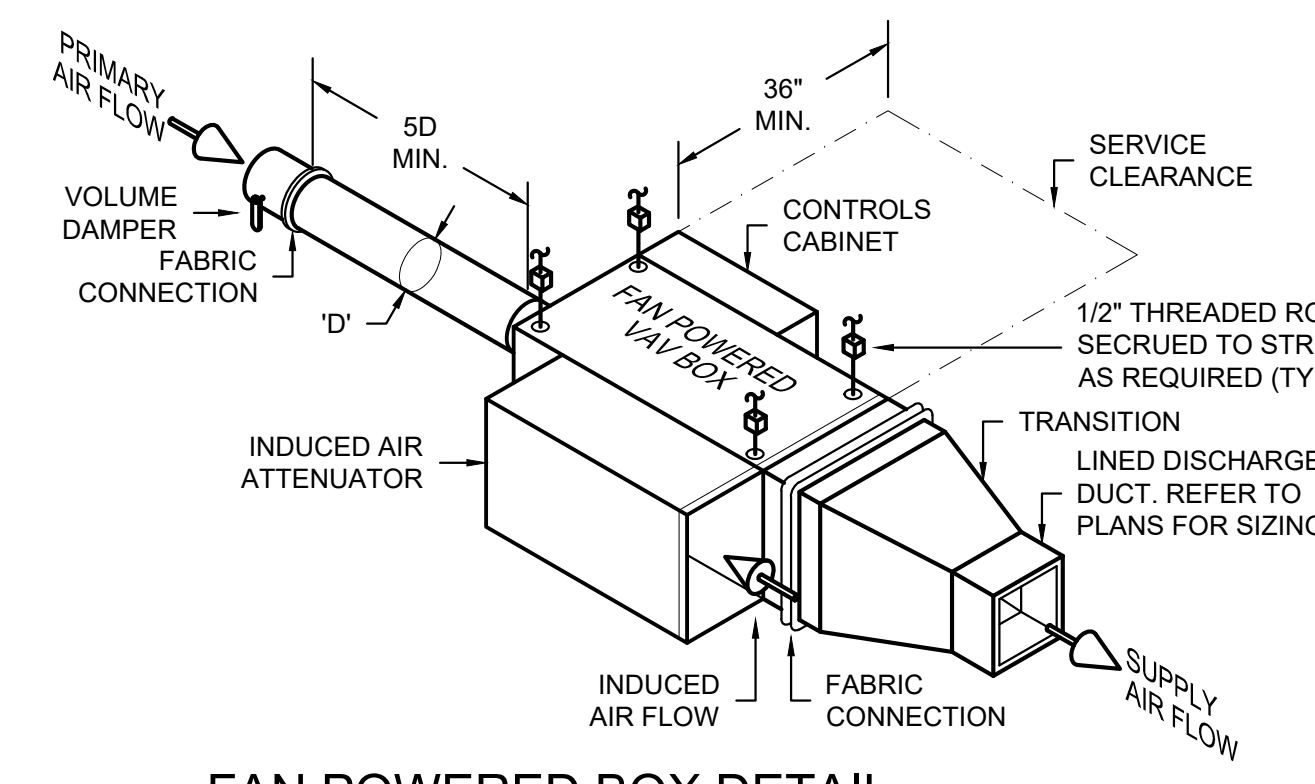
HANGING FAN COIL UNIT DETAIL
NO SCALE



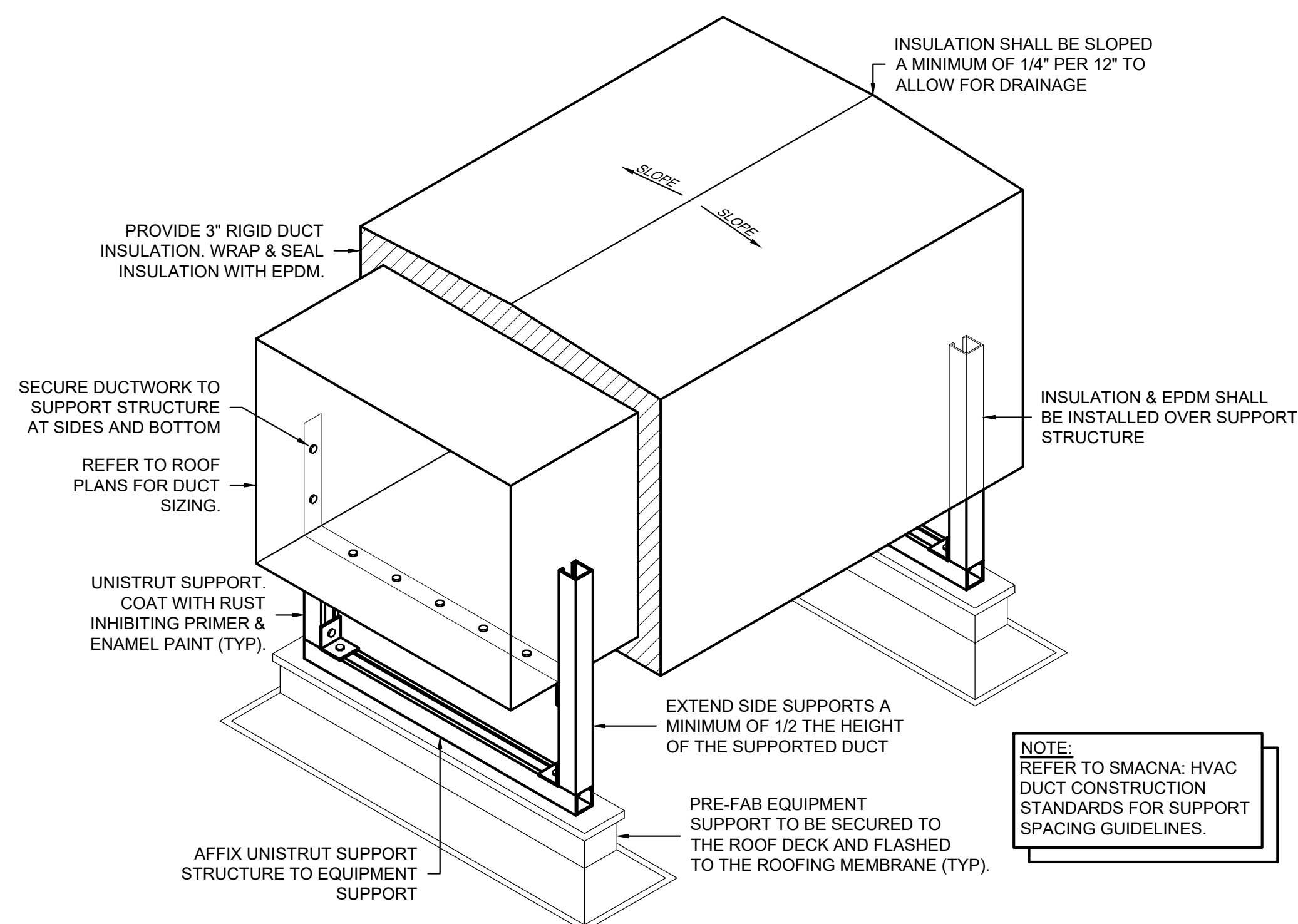
AUXILIARY DRAIN PAN SHALL BE A MINIMUM OF 1-1/2" DEEP & 3" LARGER THAN UNIT. PAN SHALL BE CONSTRUCTED OF CORROSION-RESISTANT MATERIAL AND BE LIQUIDTIGHT. PAN SHALL BE SECURELY SUPPORTED & BE COMPLETELY REMOVABLE TO ALLOW FULL ACCESS TO UNIT.

NOTE:
TYPICAL FOR ALL CONCEALED EQUIPMENT WHICH PRODUCES CONDENSATE.

DRAIN PAN WITH FLOAT SWITCH DETAIL
NTS



FAN POWERED BOX DETAIL
NTS



NOTE:
REFER TO SMACNA: HVAC DUCT CONSTRUCTION STANDARDS FOR SUPPORT SPACING GUIDELINES.

EXTERIOR DUCTWORK DETAIL
SCALE: NONE

ARCHITECTS

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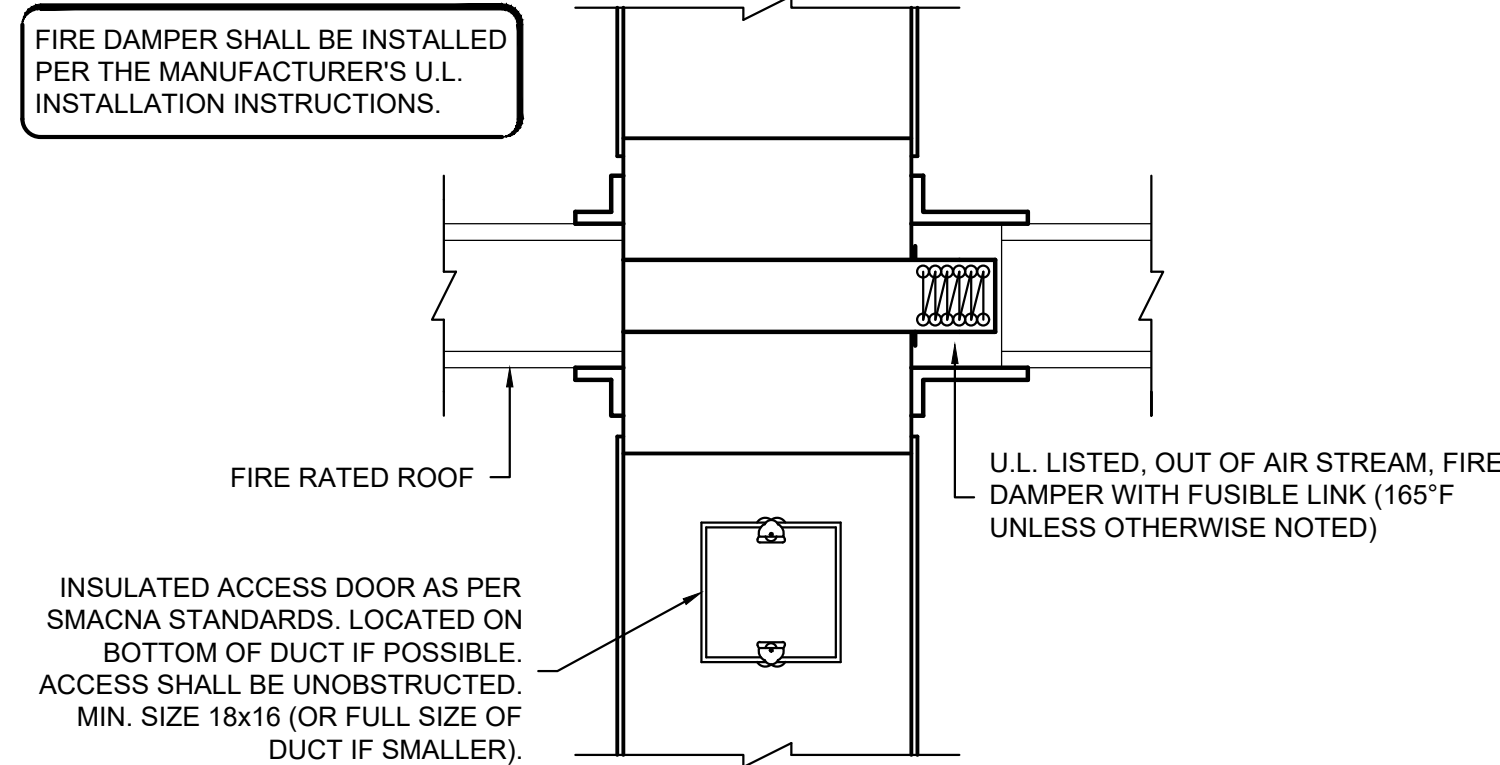
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**MECHANICAL
DETAILS**

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M4.2

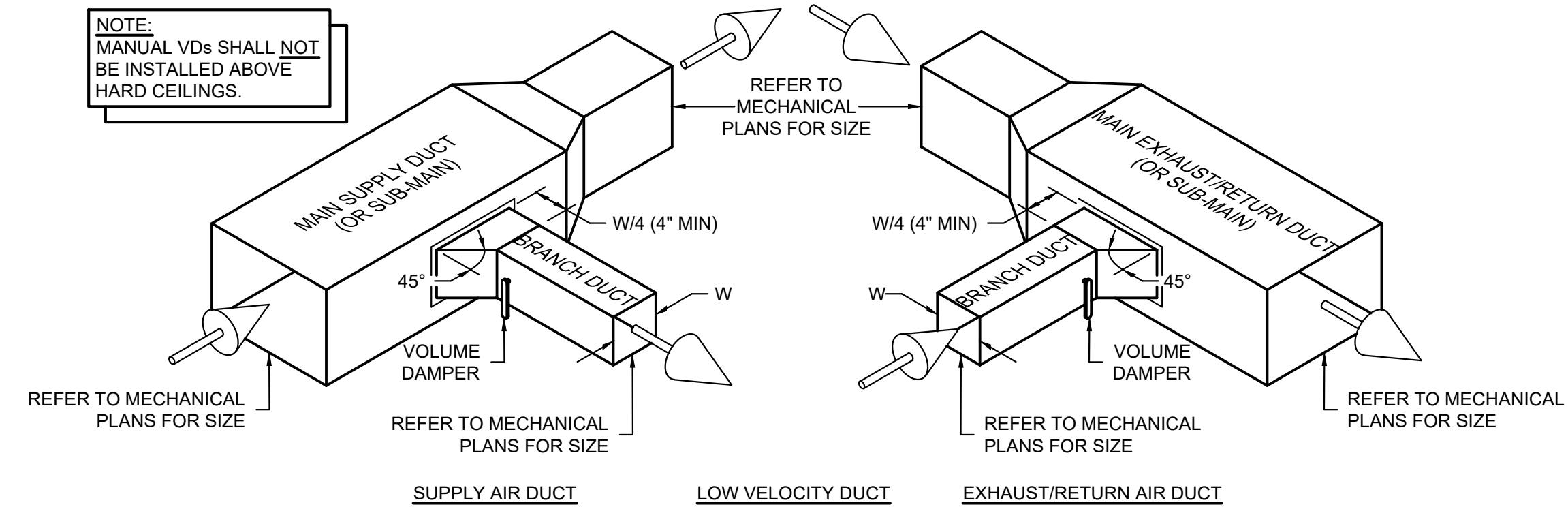
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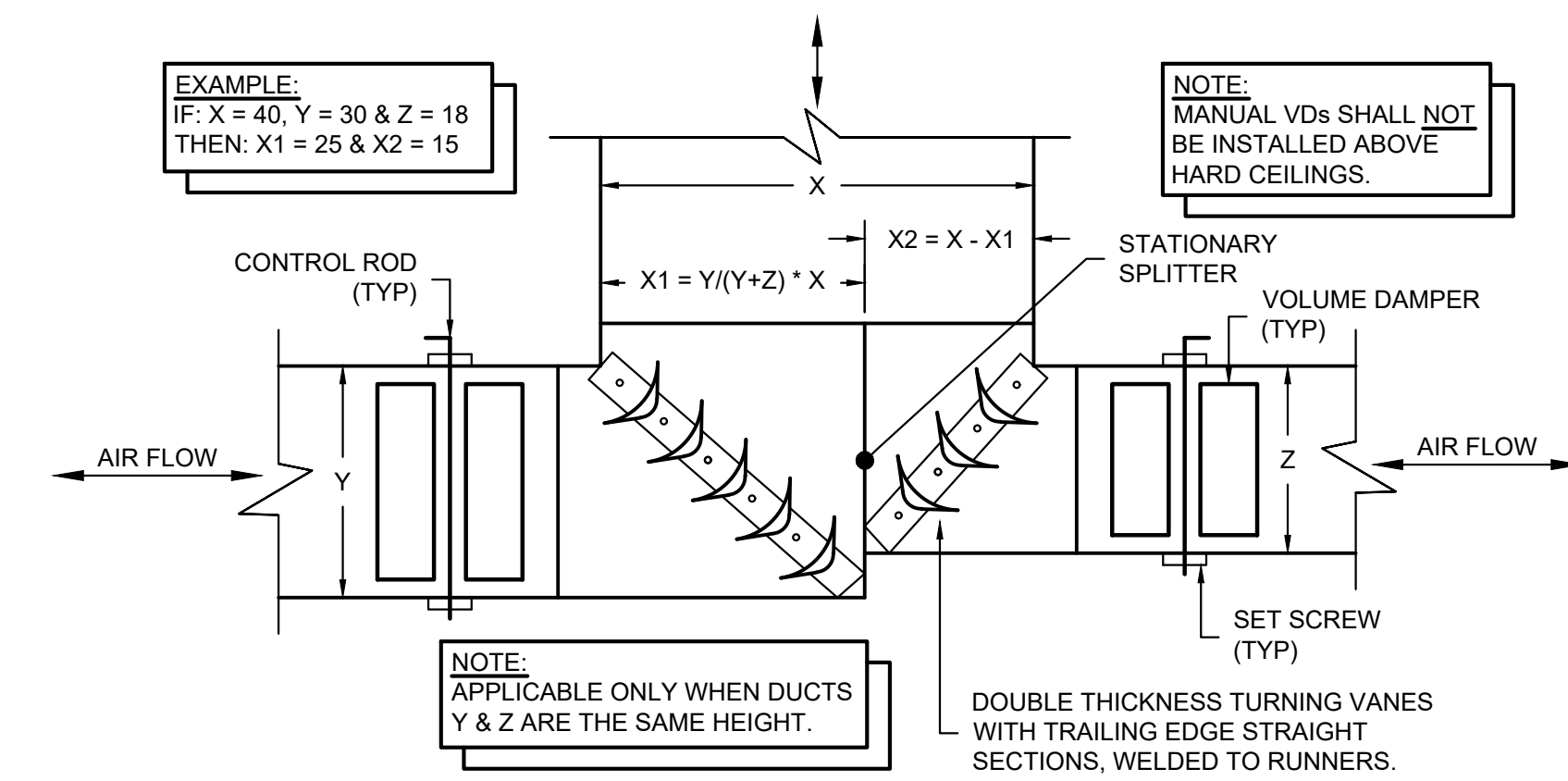
- FIRE DAMPER SUBMITTAL SHALL INCLUDE THE FOLLOWING:
1. PRODUCT DATA.
 2. U.L. INSTALLATION INSTRUCTIONS.
 3. INSTALLATION DETAILS SPECIFIC TO PROJECT CONDITIONS.

A COPY OF THE SUBMITTAL SHALL BE KEPT AT THE JOBSITE AND DISTRIBUTED TO PERTINENT SUBCONTRACTORS, INCLUDING, BUT NOT LIMITED TO DRYWALL AND MASONRY CONTRACTORS.

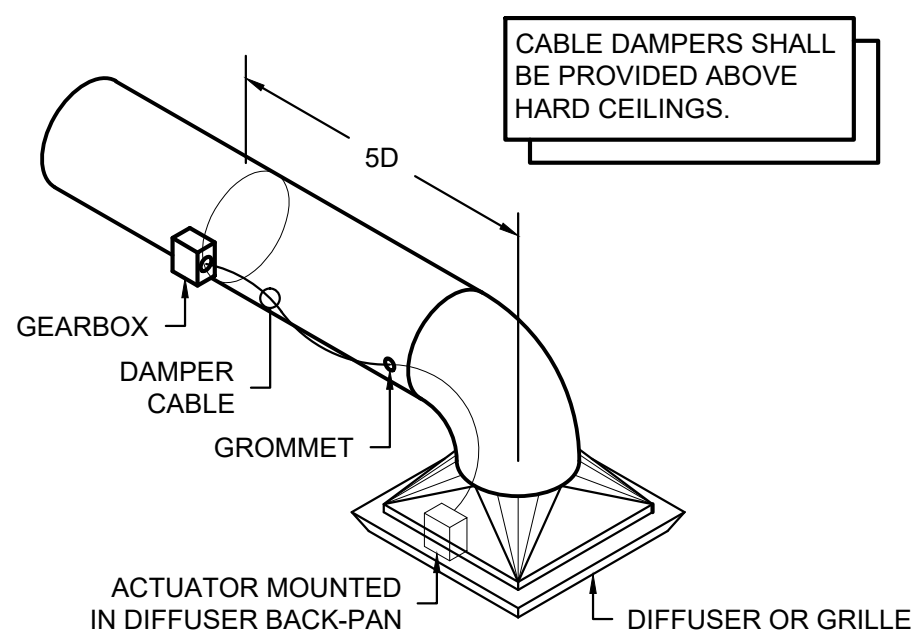
FIRE DAMPER DETAIL
NTS



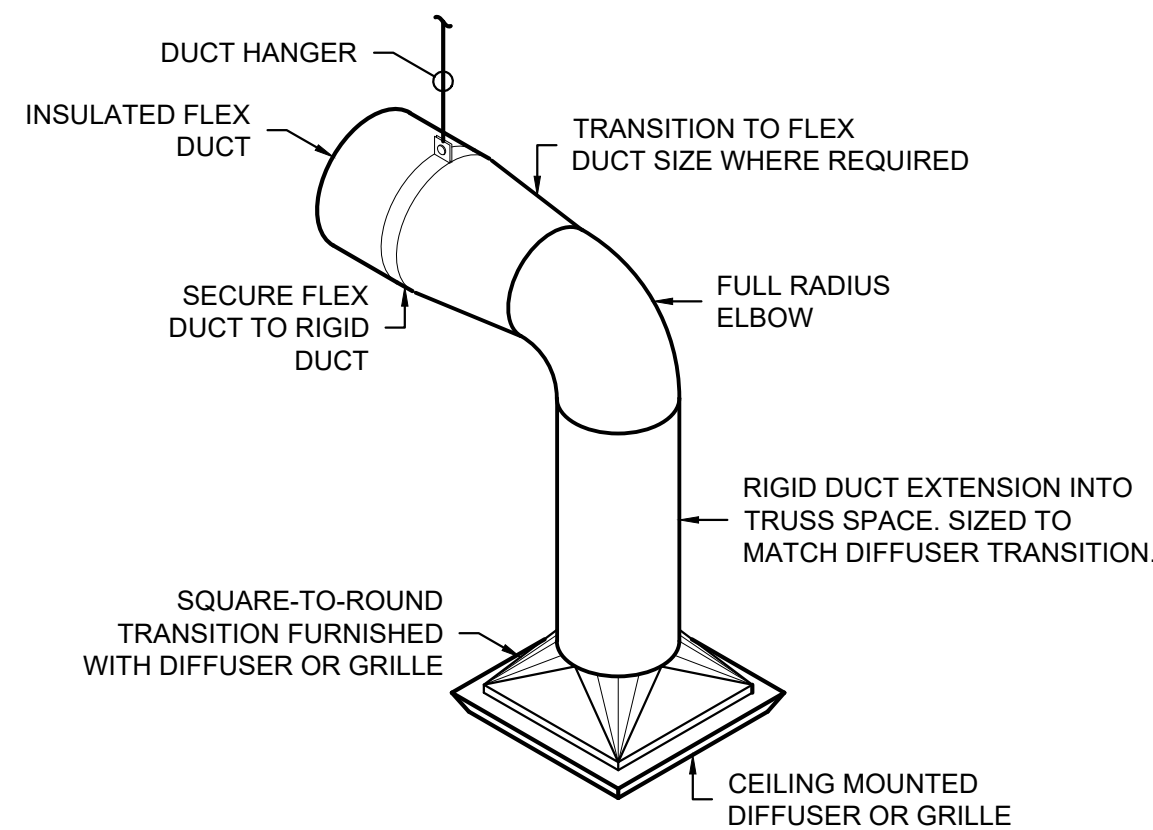
BRANCH DUCT CONNECTIONS
NTS



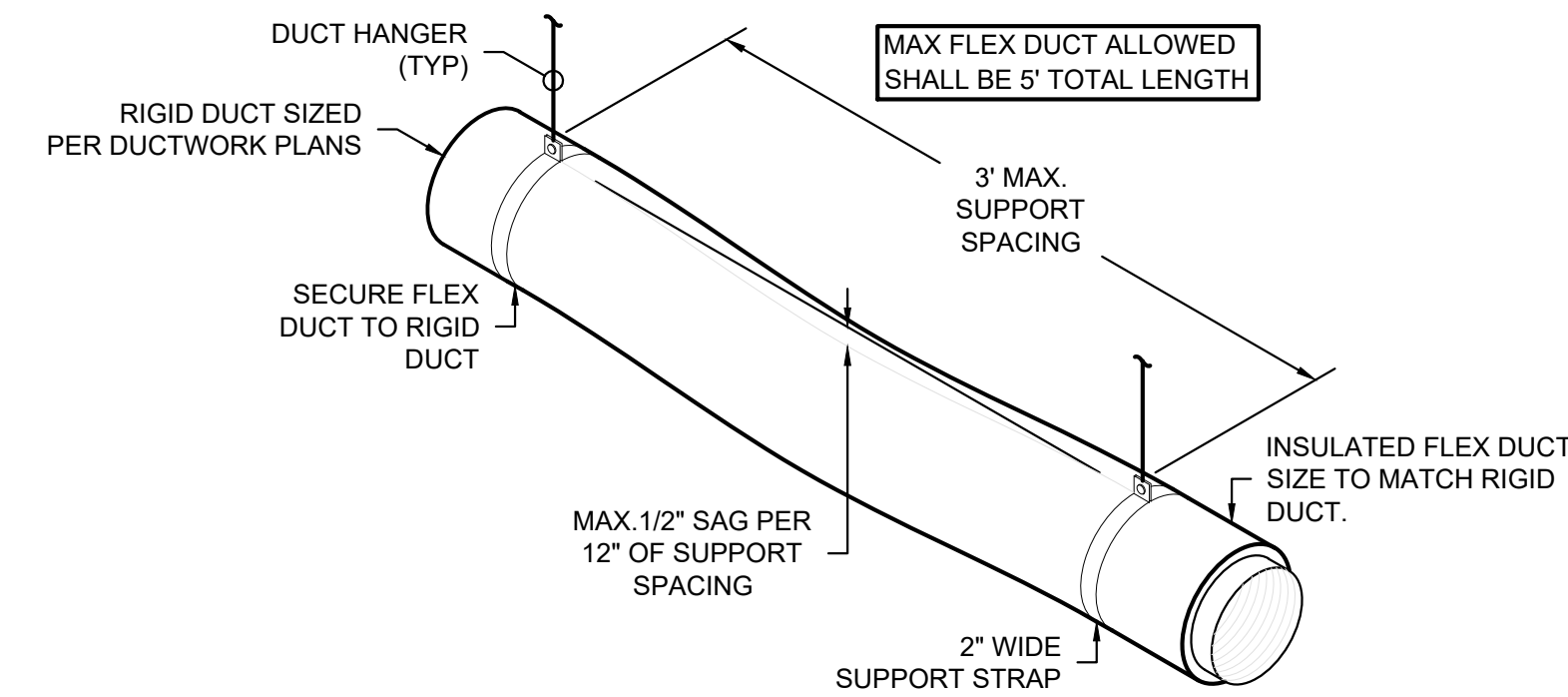
ASYMMETRICAL TEE CONNECTION
NO SCALE



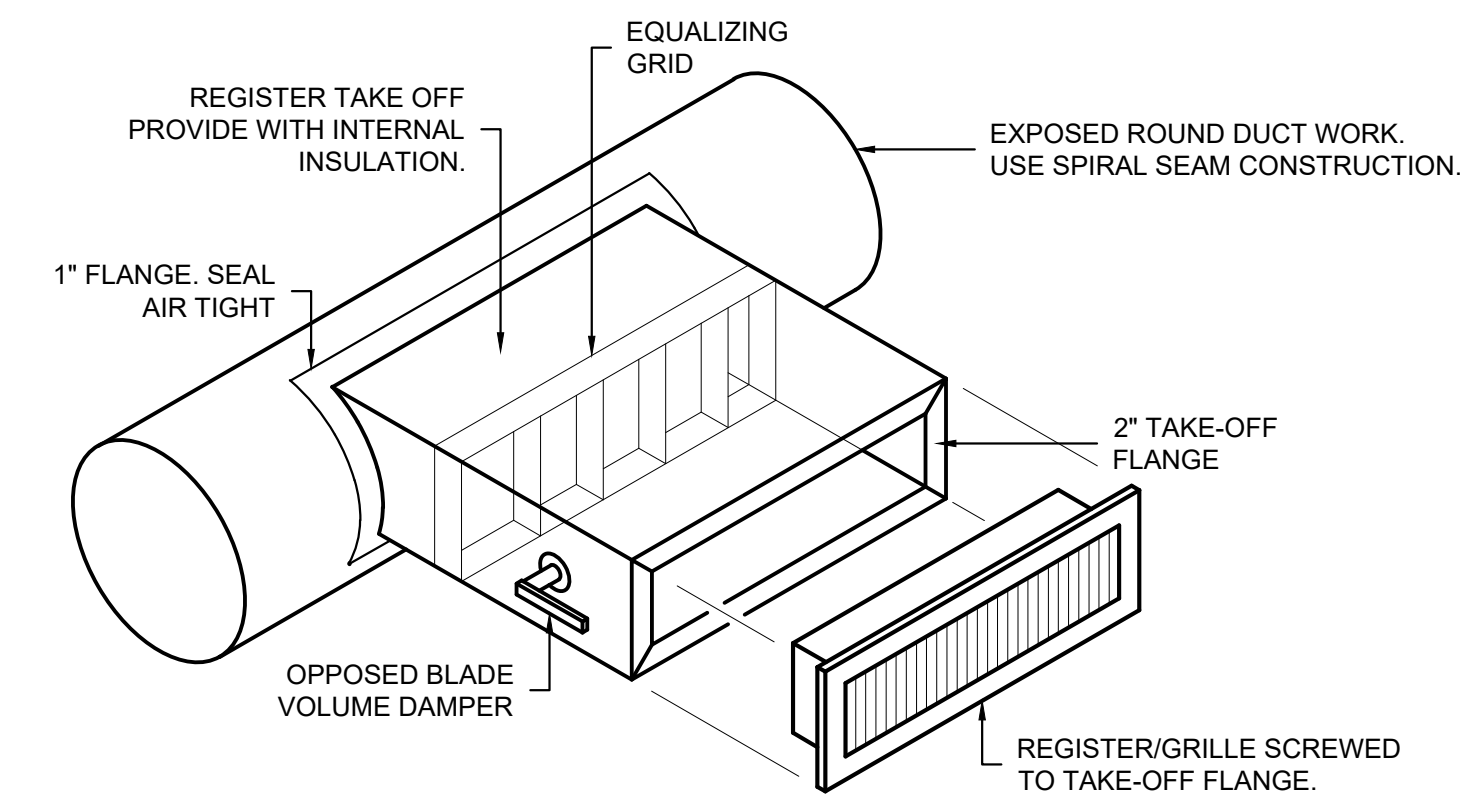
CABLE DAMPER INSTALLATION DETAIL
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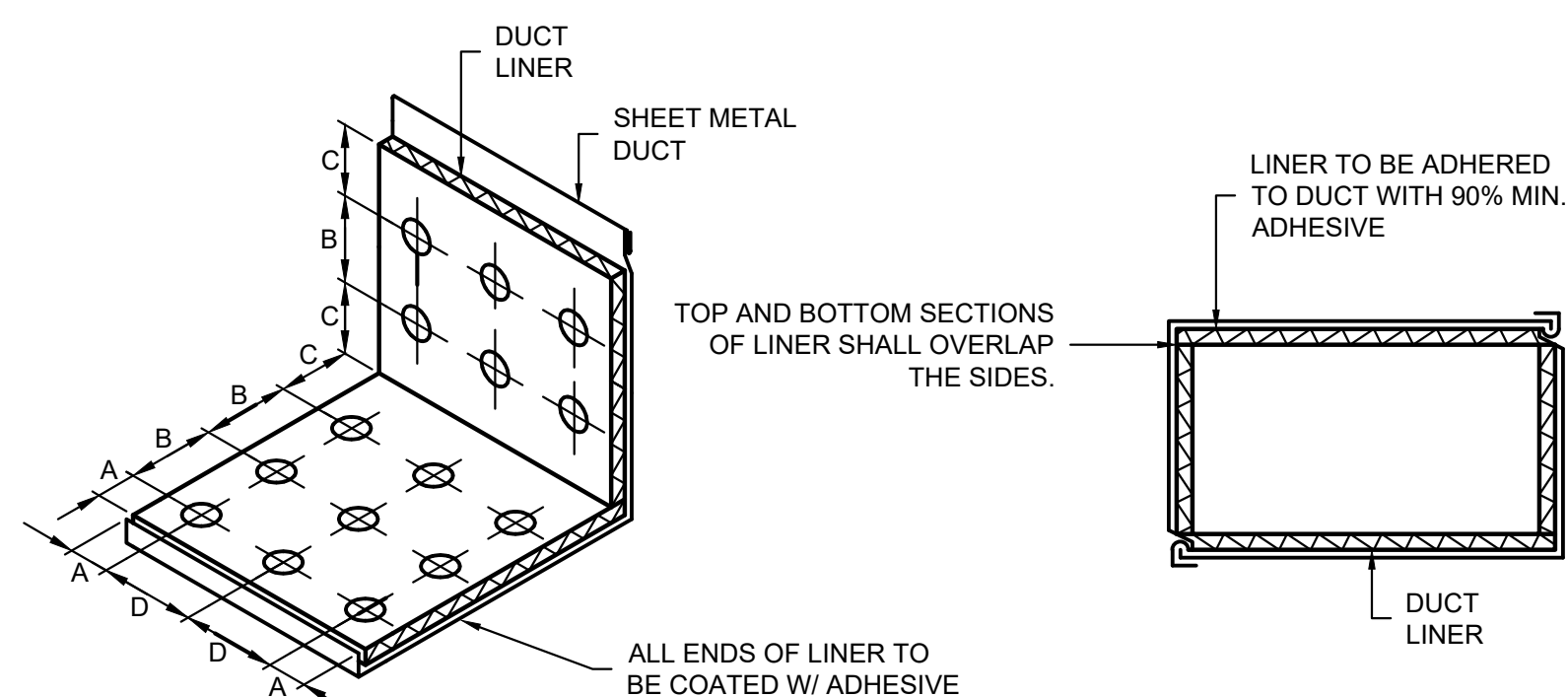
DIFFUSER CONNECTION DETAIL
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FLEX DUCT SUPPORT DETAIL
NTS



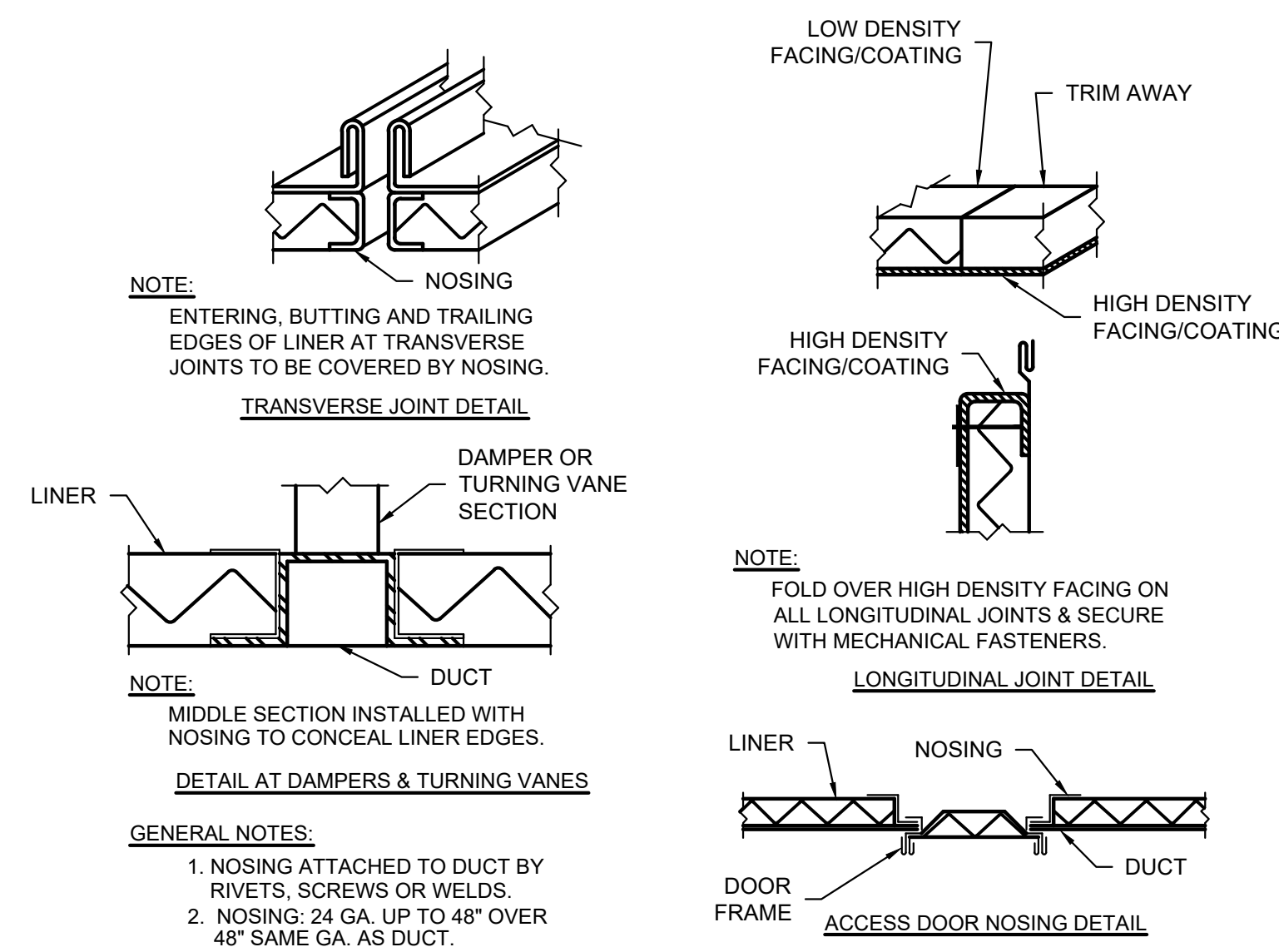
EXPOSED DUCT REGISTER CONNECTION
NTS



- NOTES:
1. METAL FASTENERS SHALL BE OMARK INSUL-PINS DURO DYNE FASTENERS OR GRIP NAILS
 2. GRIP NAILS SHALL BE INSTALLED BY "GRIPNAIL AIR HAMMER" OR BY AUTOMATIC FASTENER EQUIPMENT
 3. ENDS OF LINER SHALL BE BUTTED FIRMLY TOGETHER
 4. SEE "DUCT LINER NOSING DETAIL"

VELOCITY	DIMENSIONS			
	A	B	C	D
0-2500 FPM	3"	12"	4"	18"
2501-6000 FPM	3"	6"	4"	16"

DUCT LINER DETAIL
NTS



DUCT LINER NOSING DETAIL
NTS

TYPICAL SQUARE ELBOW
NTS

ROUND DUCT TAKE OFF DETAIL
NTS



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**MECHANICAL
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M4.3

SHEET: OF:

FOR QUESTIONS, CALL THE
 Boston/Rhode Island Mechanical
 REGION 26
 PHONE: (617) 681-7077
 EMAIL: reg26@captiveaire.com

HOOD INFORMATION - JOB#5960487

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)					HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM		VEL	SP	END TO
1	KH-1	6024 ND-2	CAPTIVEAIRE	12' 11"	600 DEG	I	HEAVY	215	2775		4'	18"	2775	1570	-1.086'	430 SS VHERE EXPOSED	ALONE	ALONE
2	KH-2	4224 VHB-G	CAPTIVEAIRE	3' 6"	700 DEG	II	N/A	150	525		4'	12"	525	668	-0.051'	430 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM	HOOD HANGING PIPING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	V/RE GUARD	LOCATION	SIZE	TYPE	SIZE			MODEL #	SWITCHES QUANTITY
1	KH-1	CAPTRATE SOLID FILTER	9	16"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	LEFT	12"x60"x24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	933 LBS
2	KH-2						0									NO	144 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH-1	FIELD WRAPPER 6.00' HIGH FRONT, LEFT. BACKSPASH 80.00' HIGH X 168.00' LONG 430 SS VERTICAL. RIGHT SIDESPLASH 80.00' HIGH X 60.00' LONG 430 SS VERTICAL. RIGHT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED. BACKSPASH - INSIDE CORNER 80.00' HIGH X 2.00' LEG LENGTH 430 SS VERTICAL. SENSOR-CV. LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2	KH-2	FIELD WRAPPER 6.00' HIGH FRONT, LEFT, RIGHT.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.
 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE
 HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT
 _____' - _____"
 HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

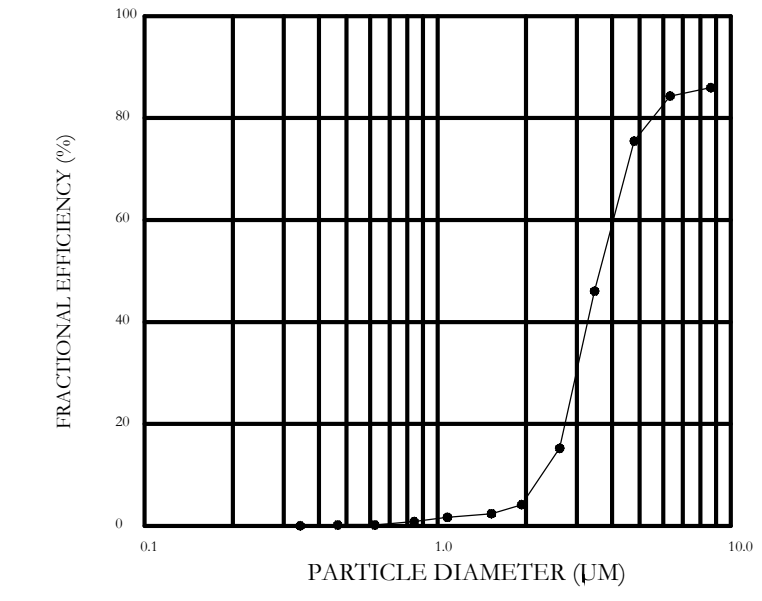
THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

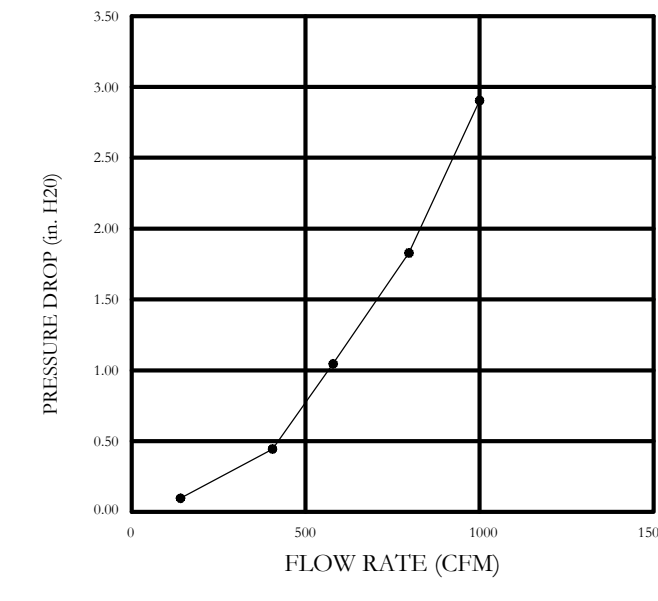
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

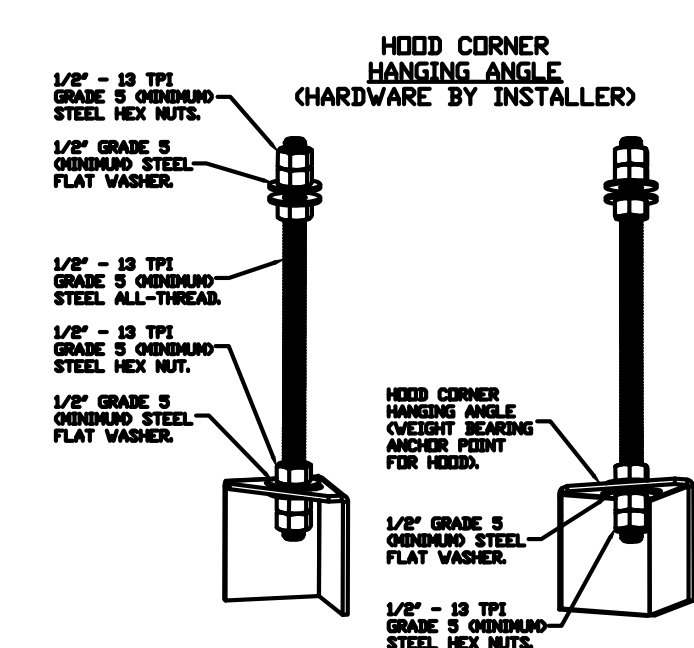
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #96.
 NSF STANDARD #2.
 UL STANDARD #1046.
 INT. MECH. CODE (IMC).
 ULC-S649.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

REVISIONS	DESCRIPTION	DATE



RWP ZOO
 100 Elmwood Avenue,
 Providence, RI, 02907

DATE: 5/25/2023
 DWG.#: 5960487
 DRAWN BY:
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 1



Saccoccio & Associates, Inc.
 1085 Park Avenue tel 401.942.7970
 Cranston, Rhode Island fax 401.942.7975
 02910

Consultant
 ENGINEERING DESIGN SERVICES INCORPORATED
 111 South Main Street
 Pawtucket, RI 02861
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Education Center,
 Animal Building, &
 Pavilion

ROGER WILLIAMS PARK ZOO
 100 ELMWOOD AVENUE
 PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

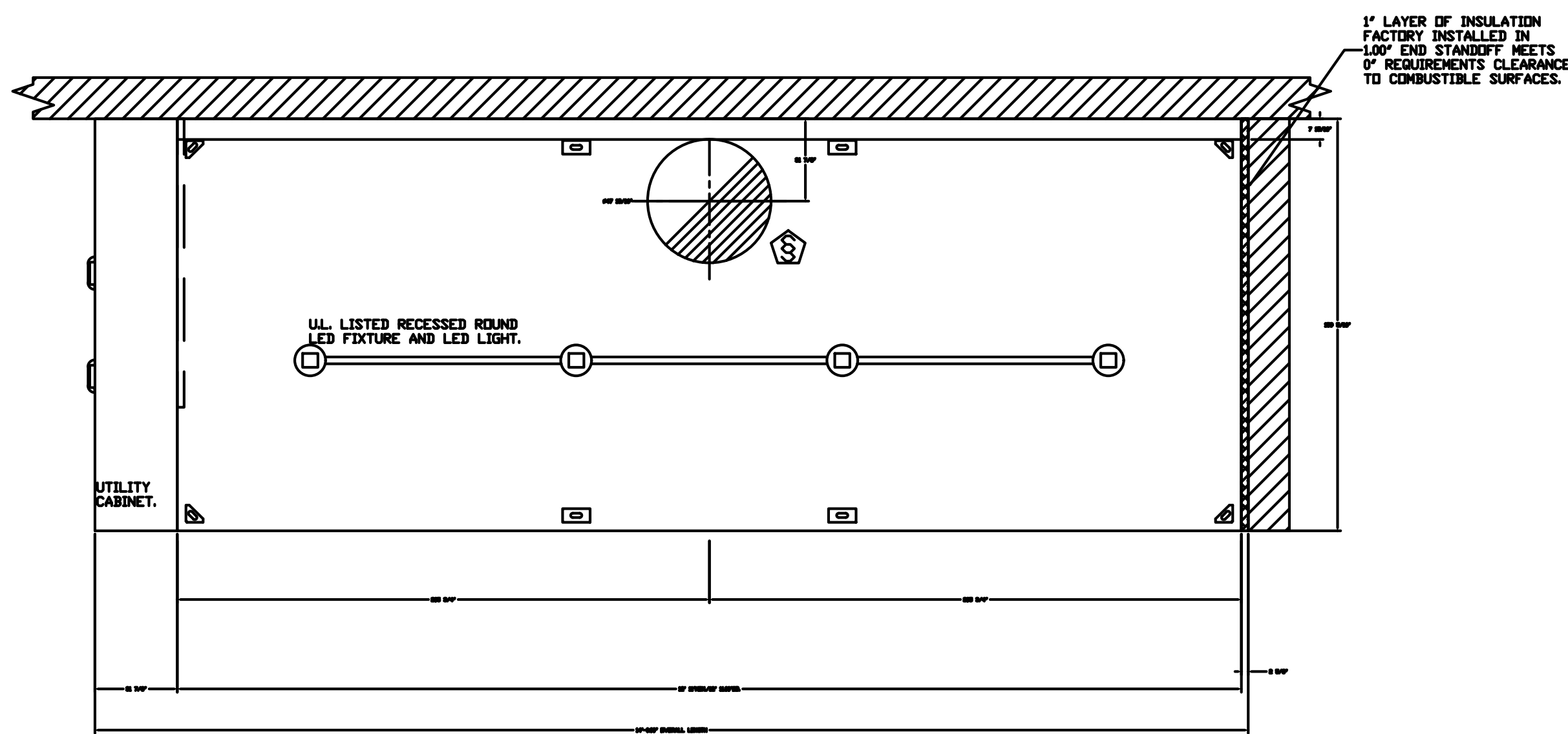
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 05/01/2024

SHEET TITLE
MECHANICAL REFERENCE DRAWINGS

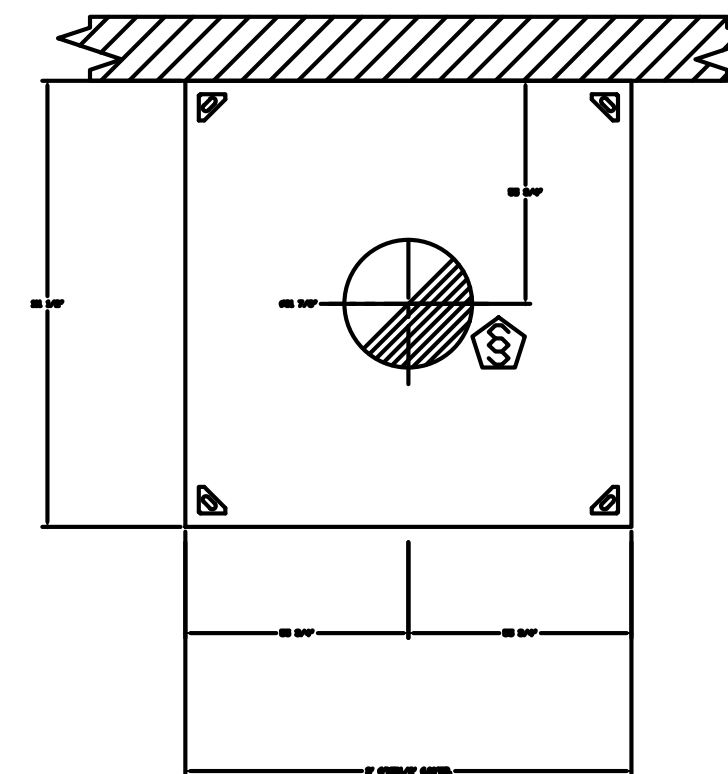
DRAWN BY: MFM/JV JOB NUMBER: 18050
 CHECKED BY: WTM DATE: 04/18/2024

M5.1R

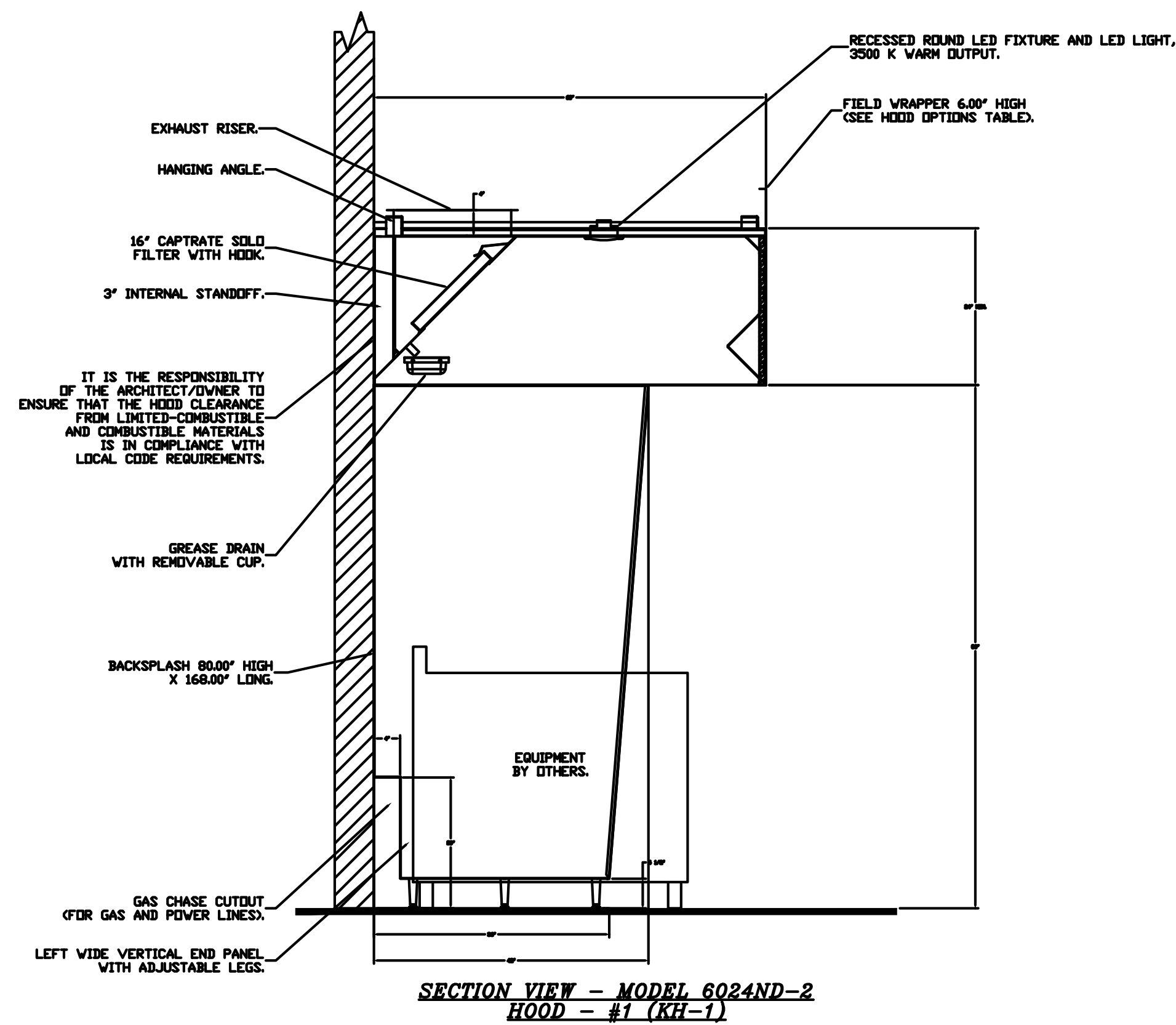
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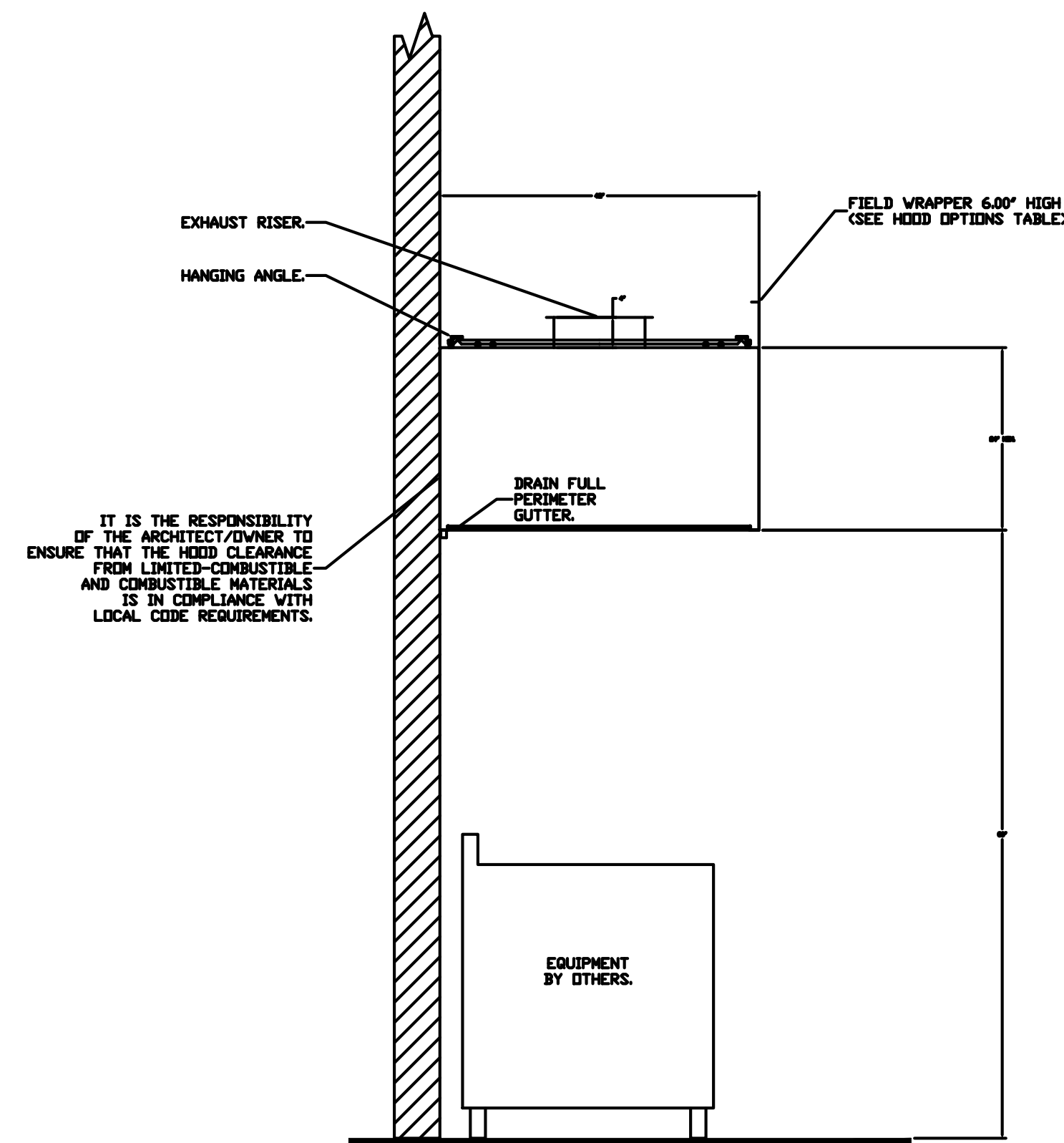
PLAN VIEW - HOOD #1 (KH-1)
12' 11.00" LONG 6024ND-2
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.



PLAN VIEW - HOOD #2 (KH-2)
3' 6.00" LONG 4224VHB-G



SECTION VIEW - MODEL 6024ND-2
HOOD - #1 (KH-1)



SECTION VIEW - MODEL 4224VHB-G
HOOD - #2 (KH-2)

REVISIONS	
NO.	DESCRIPTION

CAPTIVE
Boston/Rhode Island Mechanical
3 Boulevard St, 2nd Floor, Milton, MA 02186 PHONE: (617) 681-7077 FAX: (617) 227-8989 EMAIL: reg26@captiveare.com

RWP ZOO
100 Elmwood Avenue,
Providence, RI, 02907

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DWG.#: 5960487
DRAWN BY:
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MASTER DRAWING

SHEET NO.
2

ARCHITECTS

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05/01/2024

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MECHANICAL
REFERENCE
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DRAWN BY: MFMA/JV JOB NUMBER: 18050

CHECKED BY: WTM DATE: 04/18/2024

M5.2R

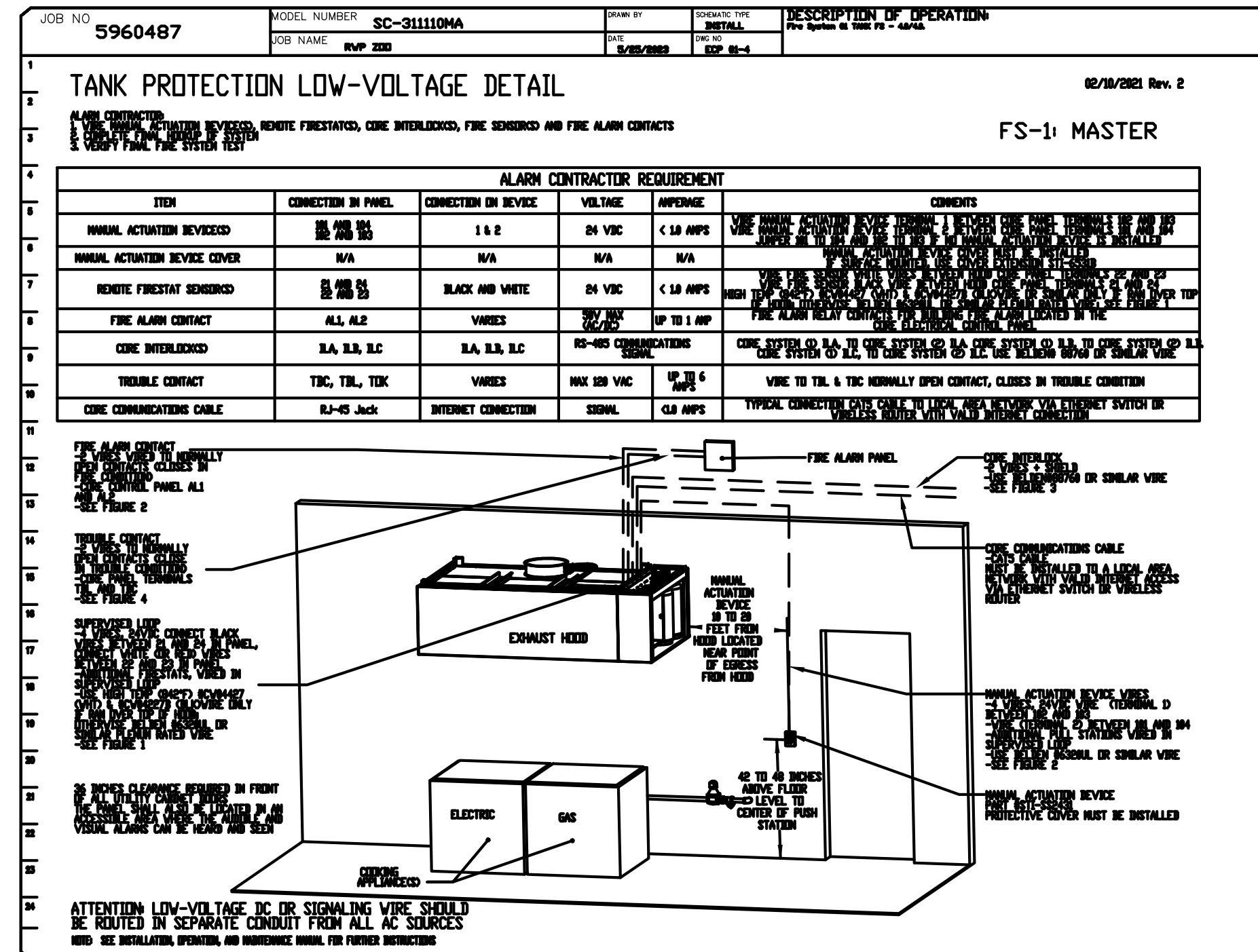
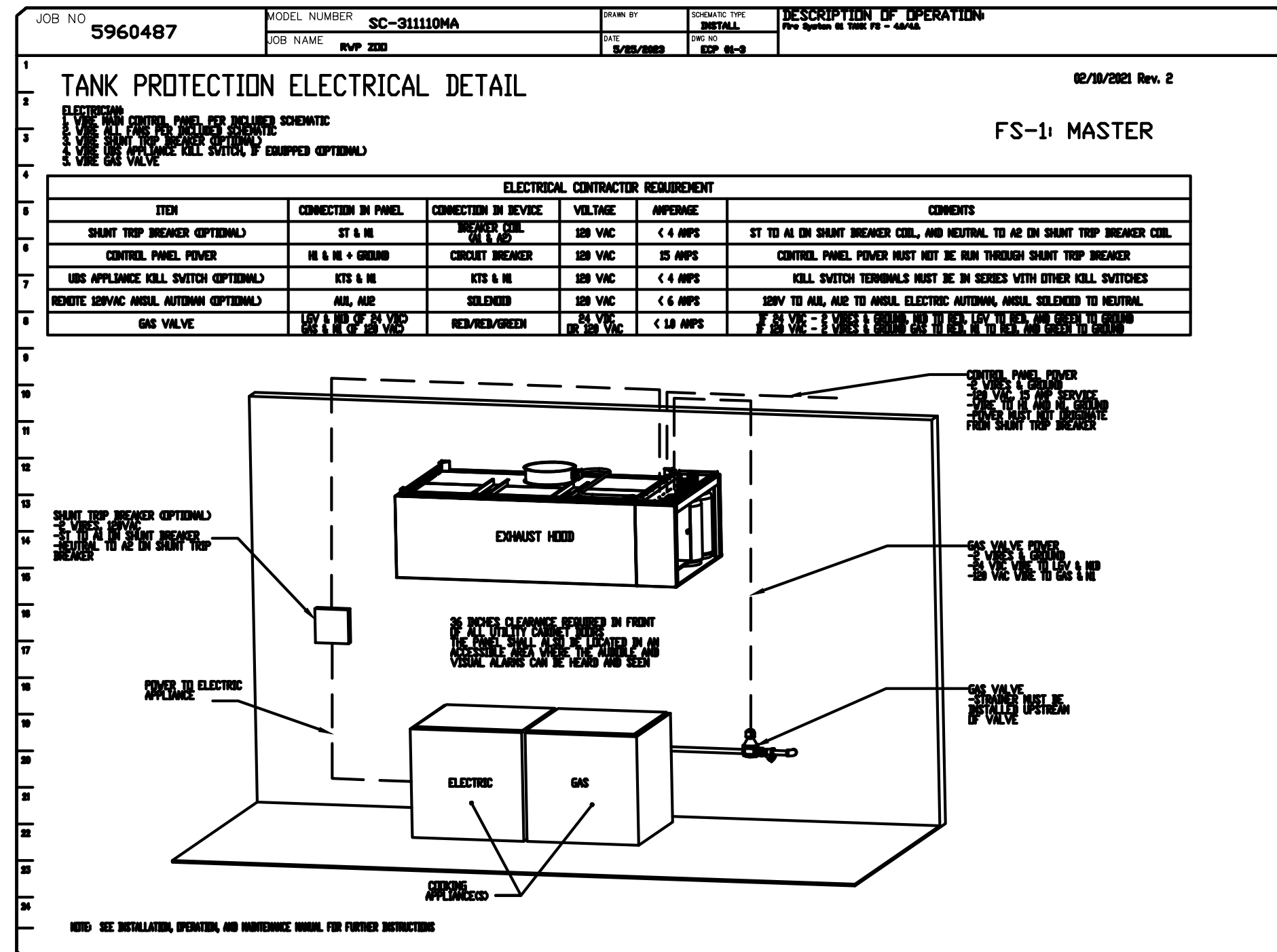
SHEET: OF:

FIRE SYSTEM INFORMATION -- JOB#5960487

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	27	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVEAIRE
 Boston/Rhode Island Mechanical
 3 Boulevard St, 2nd Floor, Milton, MA 02186 PHONE: (617) 681-7077 FAX: (617) 227-8909 EMAIL: reg228@captiveaire.com

RWP ZOO
 100 Elmwood Avenue,
 Providence, RI, 02907

DATE: 5/25/2023
 DWG.#: 5960487
 DRAWN BY: MFM/JV
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 3

SZ ARCHITECTS

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ROGER WILLIAMS PARK ZOO

100 ELMWOOD AVENUE
 PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

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SHEET TITLE

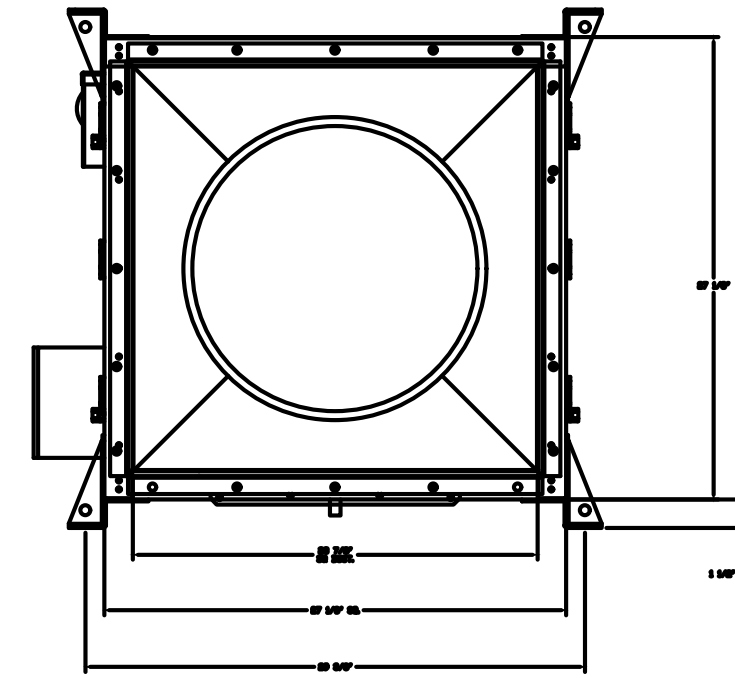
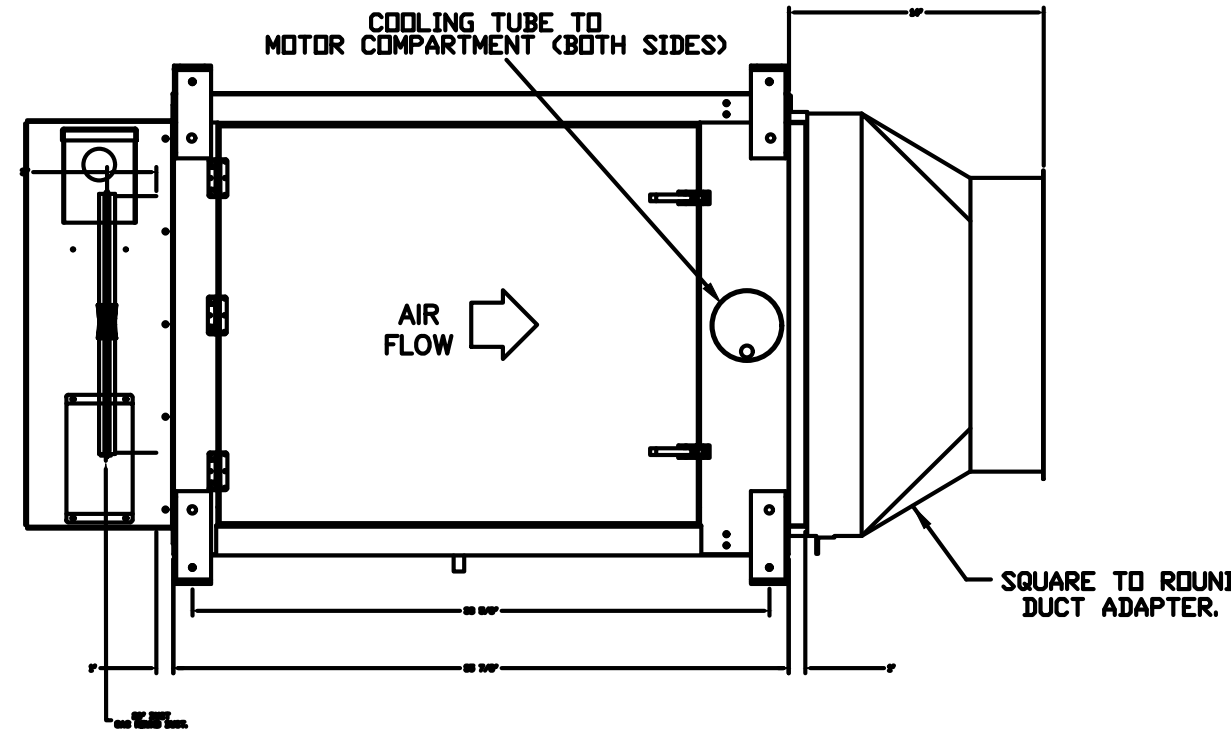
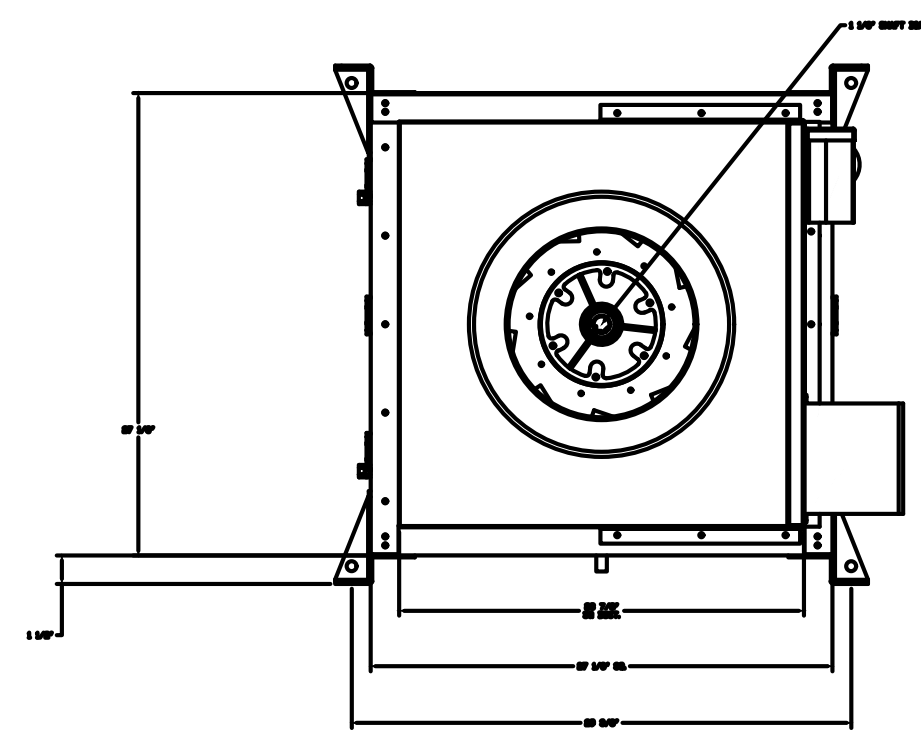
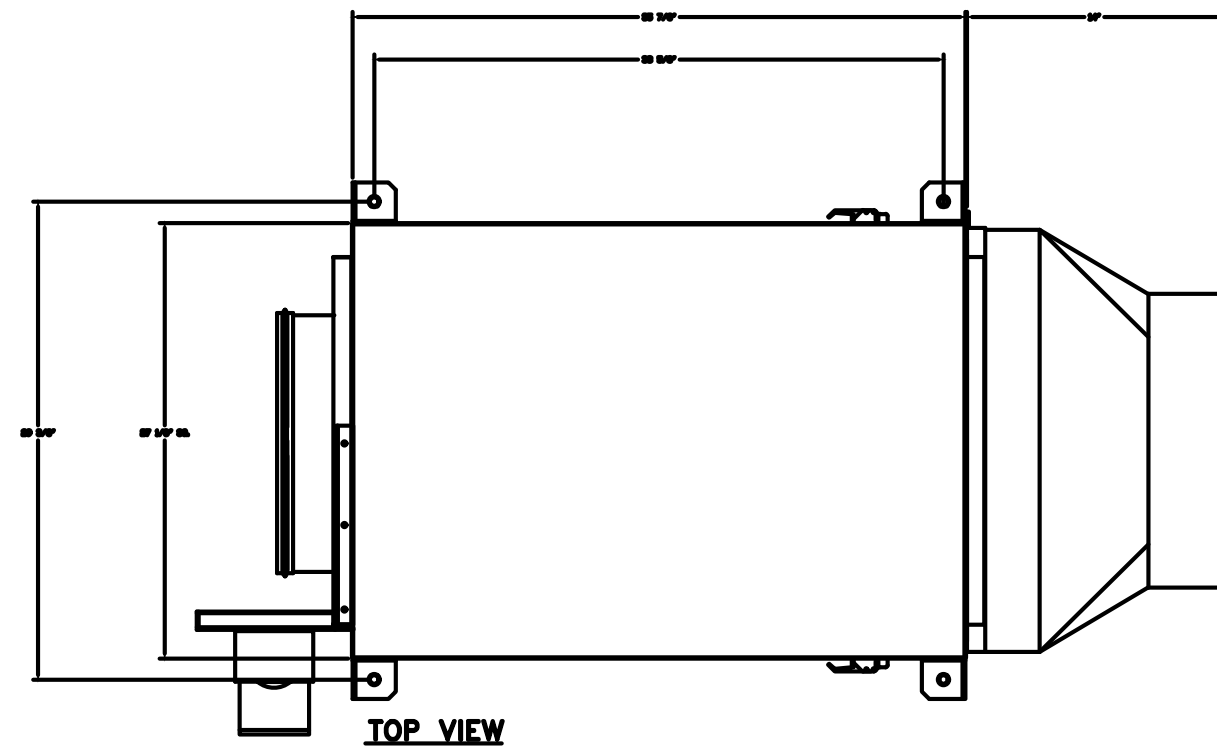
MECHANICAL REFERENCE DRAWINGS

DRAWN BY: MFM/JV	JOB NUMBER: 18050
CHECKED BY: WTM	DATE: 04/18/2024

M5.3R

SHEET: OF:

FAN #1 SIF100D-HSS-U76P - EXHAUST FAN (OFF-D)



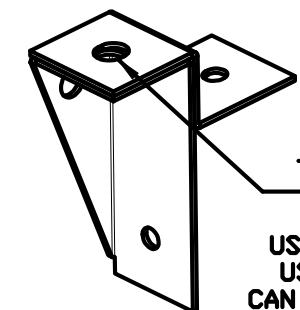
FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- TWO ACCESS DOORS FOR EASY ACCESS.
- BACKWARD INCLINED NON-OVERLOADING WHEELS.
- UL762 LISTING.
- AMCA AIR & SOUND CERTIFIED.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.
- DRAIN MUST BE CONNECTED TO OPTIONAL GREASE BOX OR PIPED TO GREASE RESERVOIR (RECOMMENDED).

OPTIONS:

- SIF 1B - SS LDU SP STRAIGHT DISCHARGE- SQUARE TO ROUND DISCHARGE ADAPTER.
- SIF1B - INLET - STANDARD 20° DUCT CONNECTION.
- SIF - HORIZONTAL OVERHEAD MOUNT - PRE-INSTALLED MOUNTS (U-36).
- HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS (SALES).
- UNIT MOUNTED VFD FOR USE WITH ECPMOS.
- VFD MOUNTING PLATE SIF 1B.
- 2 YEAR PARTS WARRANTY.

- NOTES:**
- DVXDFRISER USED WHEN CONNECTING TO STANDARD DUCT.
 - DVXDFRISERS ARE INSTALLED ON THE INTAKE AND/OR DISCHARGE SIDES.



UNIVERSAL MOUNTING BRACKET
 1/2" DIA. THREADED ROD ONLY
 5/64" DIA. MOUNTING HOLES.
 USED WITH CEILING VIBRATION ISOLATORS.
 USED WITH FLOOR VIBRATION ISOLATORS.
 CAN BE RELOCATED IN THE FIELD AS NEEDED.

REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE
 Boston/Rhode Island Mechanical
 3 Boulevard St, 2nd Floor, Milton, MA 02186 PHONE: (617) 681-1707 FAX: (617) 227-8989 EMAIL: reg26@captiveare.com

RWP Z00
 100 Elmwood Avenue,
 Providence, RI, 02907

DATE: 5/25/2023
 DWG.#: 5960487
 DRAWN BY:
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 5

SZ ARCHITECTS
Saccoccio & Associates, Inc.
 1085 Park Avenue tel 401.942.7970
 Cranston, Rhode Island fax 401.942.7975
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 PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

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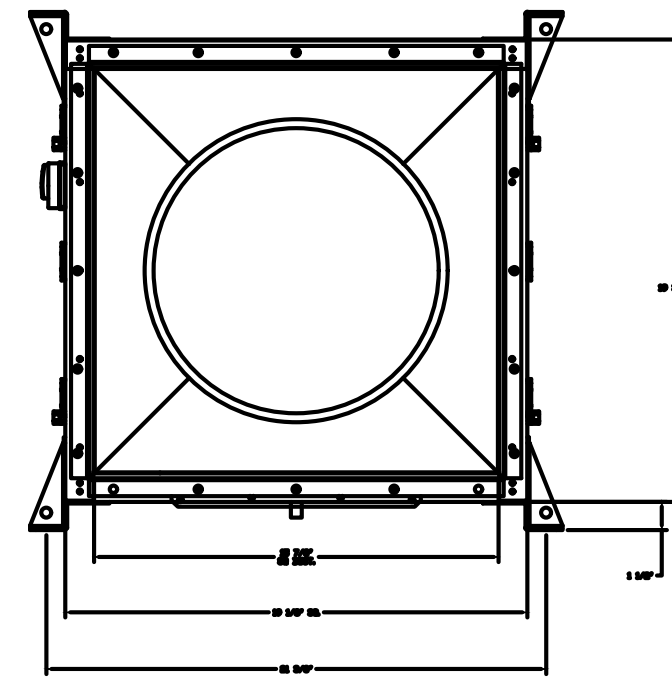
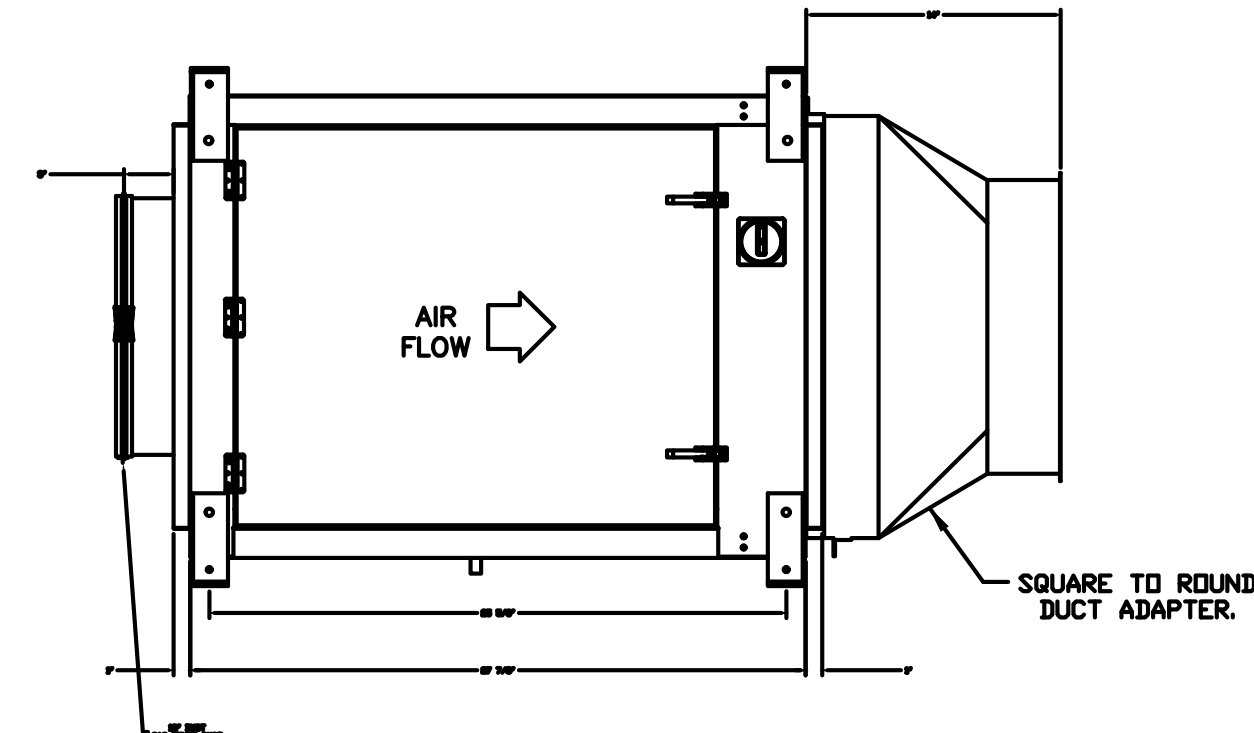
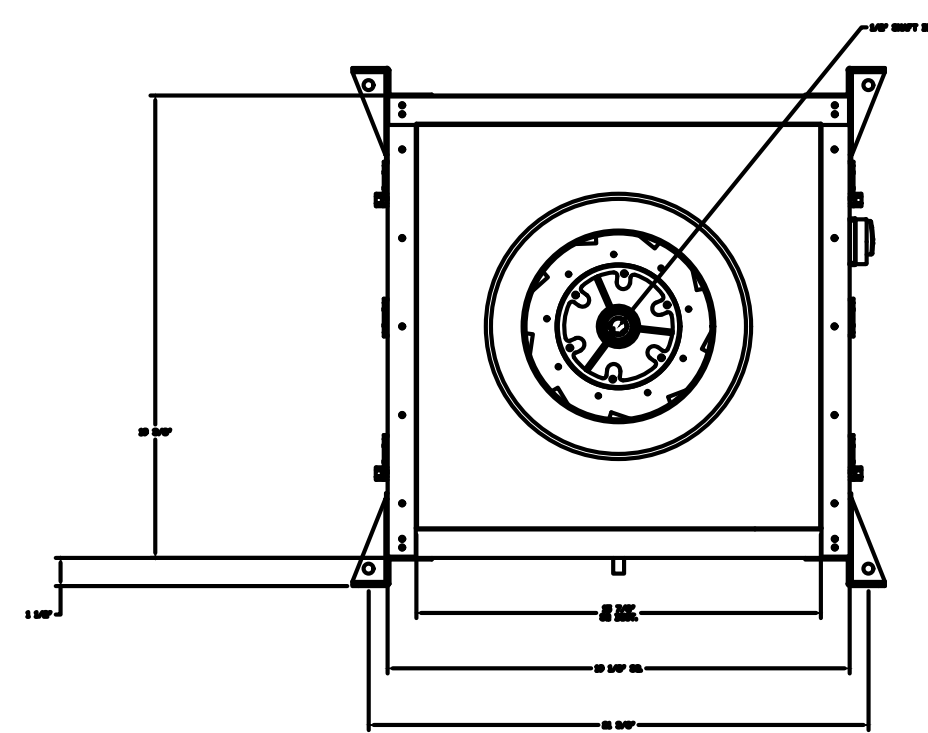
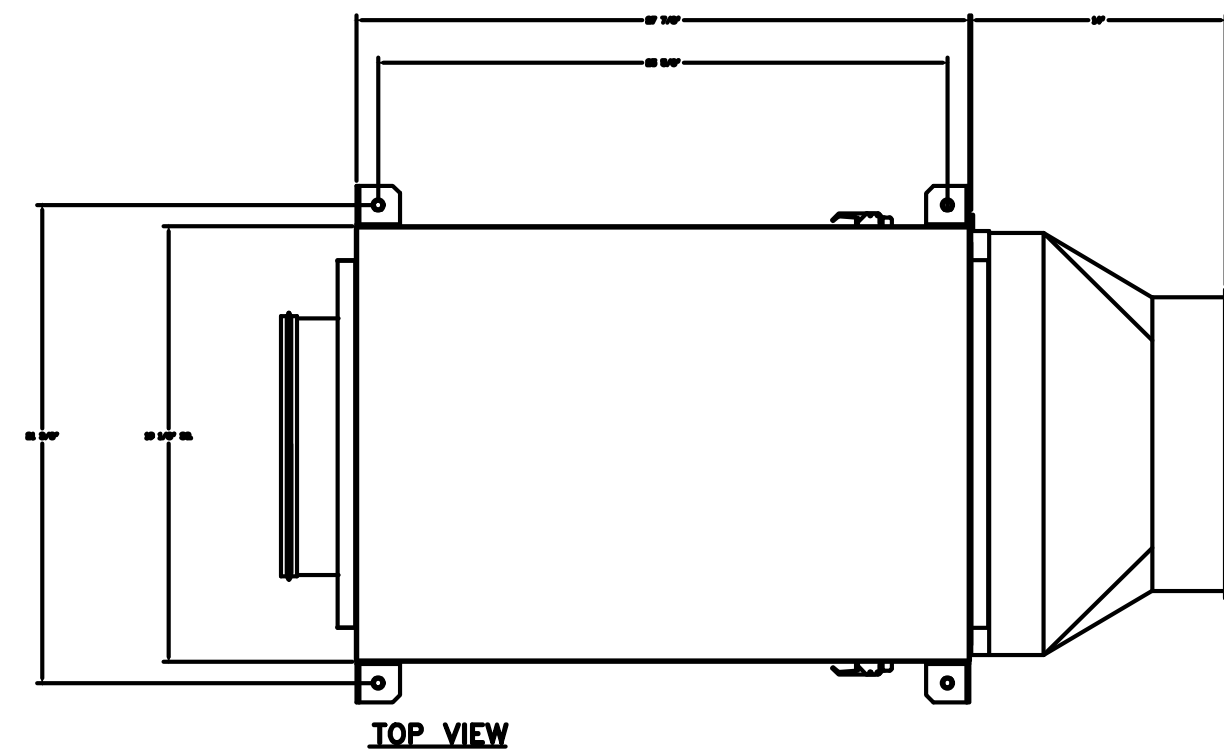
SHEET TITLE
MECHANICAL REFERENCE DRAWINGS

DRAWN BY: MFMA/JV	JOB NUMBER: 18050
CHECKED BY: WTM	DATE: 04/18/2024

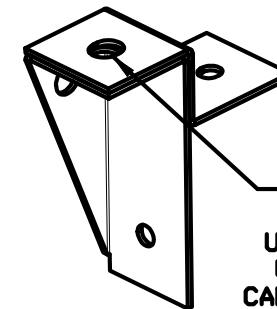
M5.4R

SHEET: OF:

FAN #2 SIF11B-SS - EXHAUST FAN (KFF-2)



NOTES:
 - DIVAFRISER USED WHEN CONNECTING TO STANDARD DUCT.
 - DIVAFRISERS ARE INSTALLED ON THE INTAKE AND/OR DISCHARGE SIDES.



UNIVERSAL MOUNTING BRACKET
 1/2" DIA. THREADED ROD ONLY
 .560" DIA. MOUNTING HOLES.
 USED WITH CEILING VIBRATION ISOLATORS.
 USED WITH FLOOR VIBRATION ISOLATORS.
 CAN BE RELOCATED IN THE FIELD AS NEEDED.

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- TWO ACCESS DOORS FOR EASY ACCESS.
- BACKWARD INCLINED NON-OVERLOADING WHEELS.
- UL705 LISTING.
- AMCA AIR & SOUND CERTIFIED.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- 2" NPT THREADED DRAIN CENTERED IN BASE (SS MODELS).

OPTIONS:

- SIF 11- SS LRV SP STRAIGHT DISCHARGE - SQUARE TO ROUND DISCHARGE ADAPTER.
- SIF11 - INLET - STANDARD 12" DUCT CONNECTION.
- SIF - HORIZONTAL OVERHEAD MOUNT - PRE-INSTALLED MOUNTS (CI-36).
- ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL - MSC - (TELCO, CCW ROTATION).
- HAMMER SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE IN-LINE FANS (SIA12S).
- 2 YEAR PARTS WARRANTY.

REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE
 Boston/Rhode Island Mechanical
 3 Boulevard St, 2nd Floor, Milton, MA 02186 PHONE: (617) 681-7077 FAX: (617) 227-8989 EMAIL: reg202@captiveare.com

RWP Z00
 100 Elmwood Avenue,
 Providence, RI, 02907

DATE: 5/25/2023
 DWG.#:
 5960487
 DRAWN BY:
 SCALE:
 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO.
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 PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

Issued for Bid
 05/01/2024

SHEET TITLE

**MECHANICAL
 REFERENCE
 DRAWINGS**

DRAWN BY: MFM/AJV JOB NUMBER: 18050

CHECKED BY: WTM DATE: 04/18/2024

M5.6R

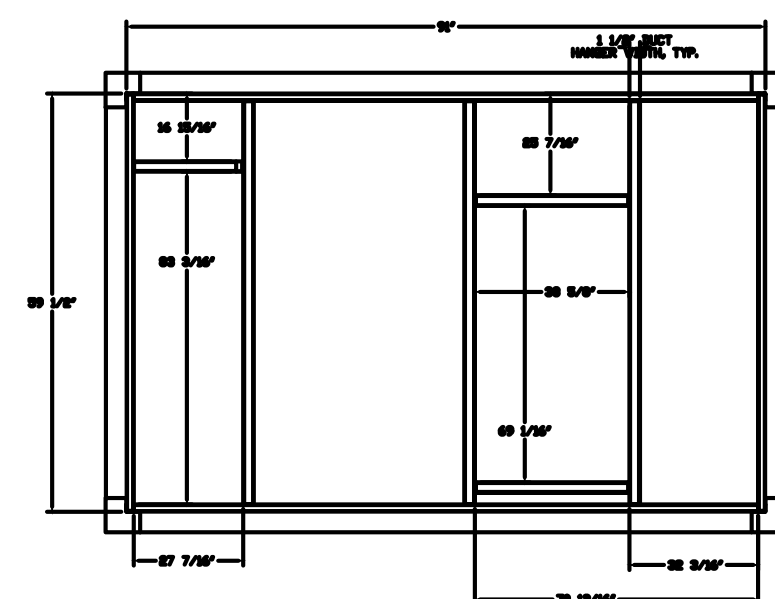
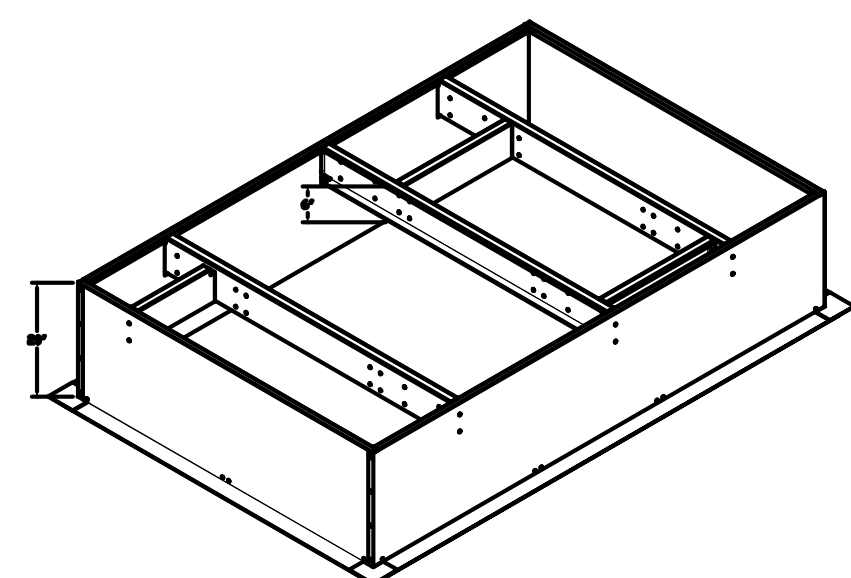
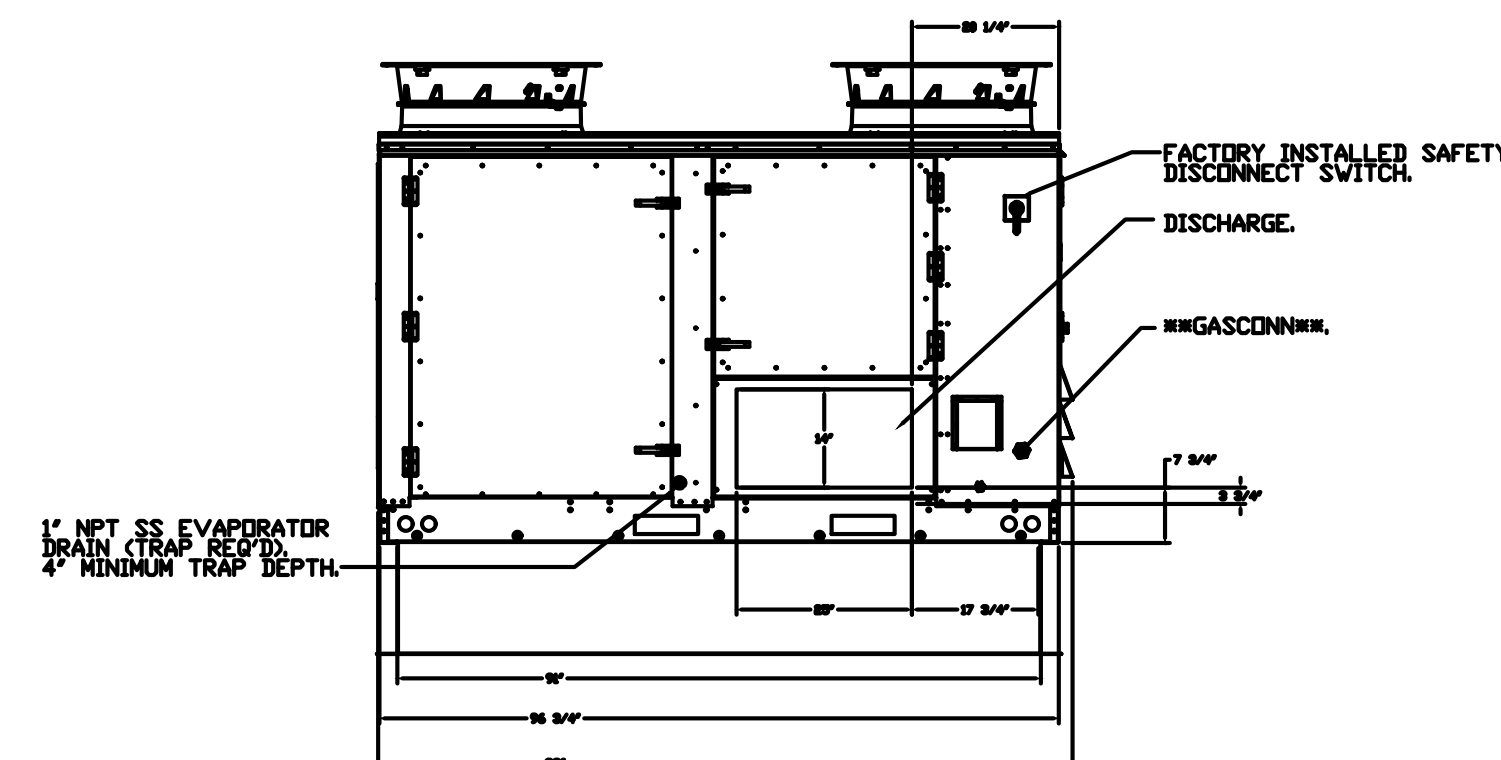
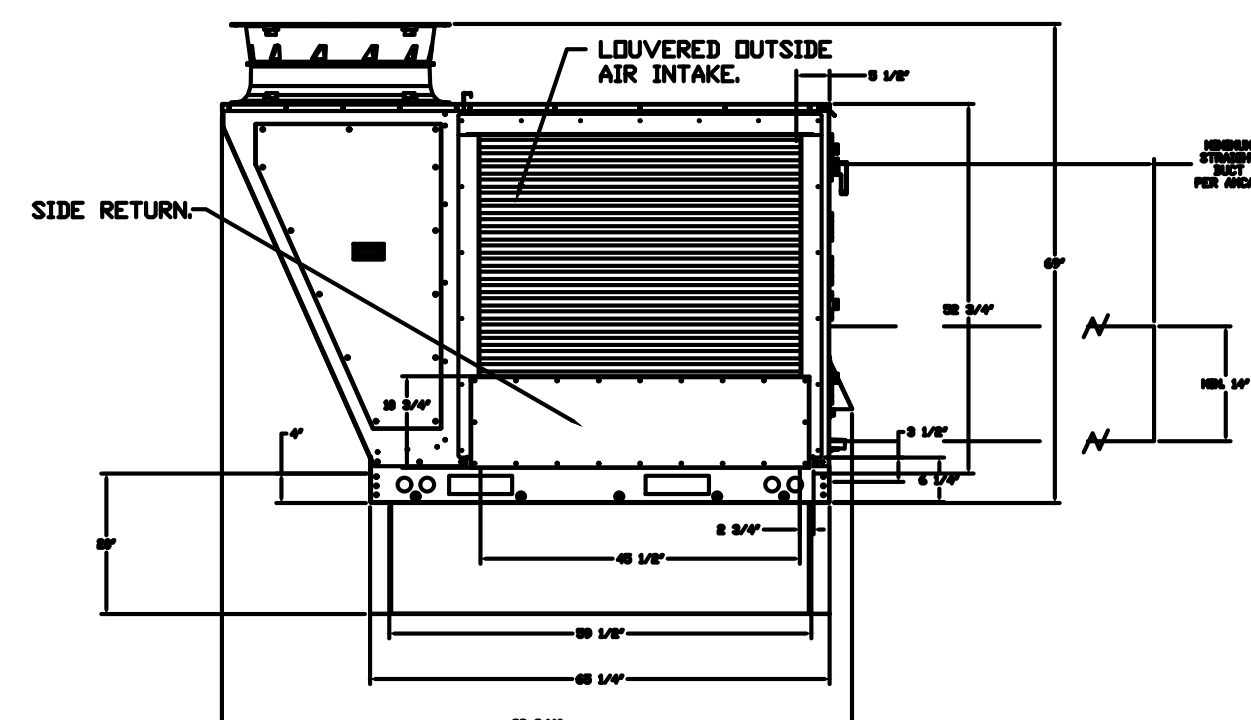
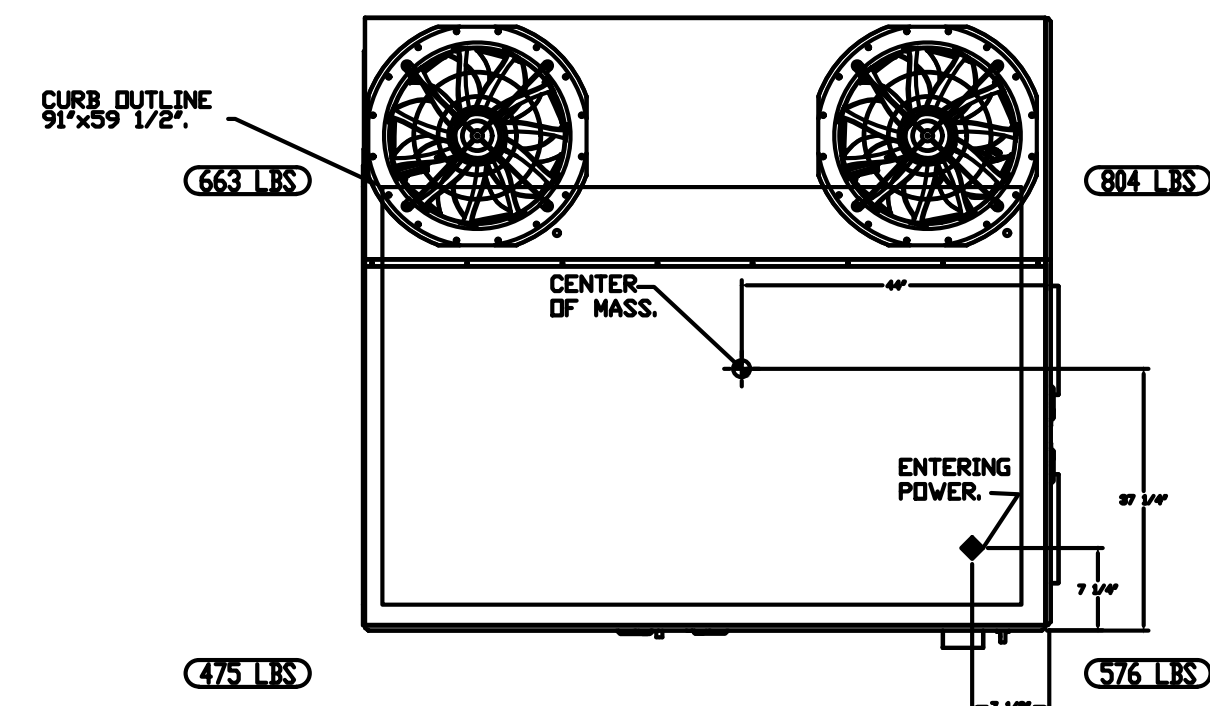
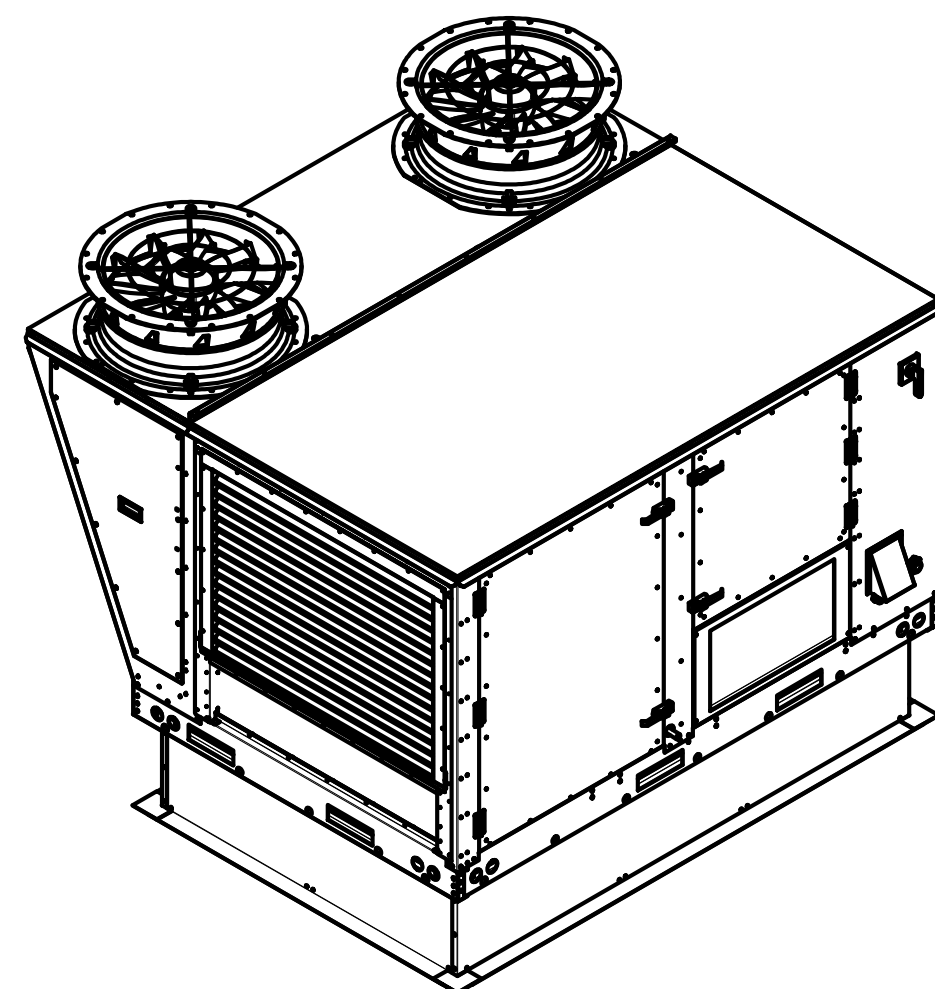
SHEET: OF:

FAN #3 CASRTU3-1.300-18-15T - HEATER (DDAS-1)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
- DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 25" x 14".



REVISIONS	
NO.	DATE

CAPTIVE
 Boston/Rhode Island Mechanical
 3 Boulevard St, 2nd Floor, Milton, MA, 02186 PHONE: (617) 681-7077 FAX: (617) 227-5909 EMAIL: reg@captivemechanical.com

RWP ZDD
 1000 Elmwood Avenue,
 Providence, RI, 02907

DATE: 5/25/2023
 DWG.#: 5960487
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 SCALE: 1/2" = 1'-0"
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Revision Schedule	
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DRAWN BY: MFMA/JV JOB NUMBER: 18050
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M5.7R

SHEET: OF:

ELECTRICAL PACKAGE - JOB#5960487												
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLTS	FLA	
1		SC-311109A	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL V/ RELAY ON/OFF WITH SUPPLY	KEP-1	EXHAUST	3	2000	208	5.7
				HOOD # 1	1 FAN		DDAS-1	SUPPLY	3	3000	208	9.5

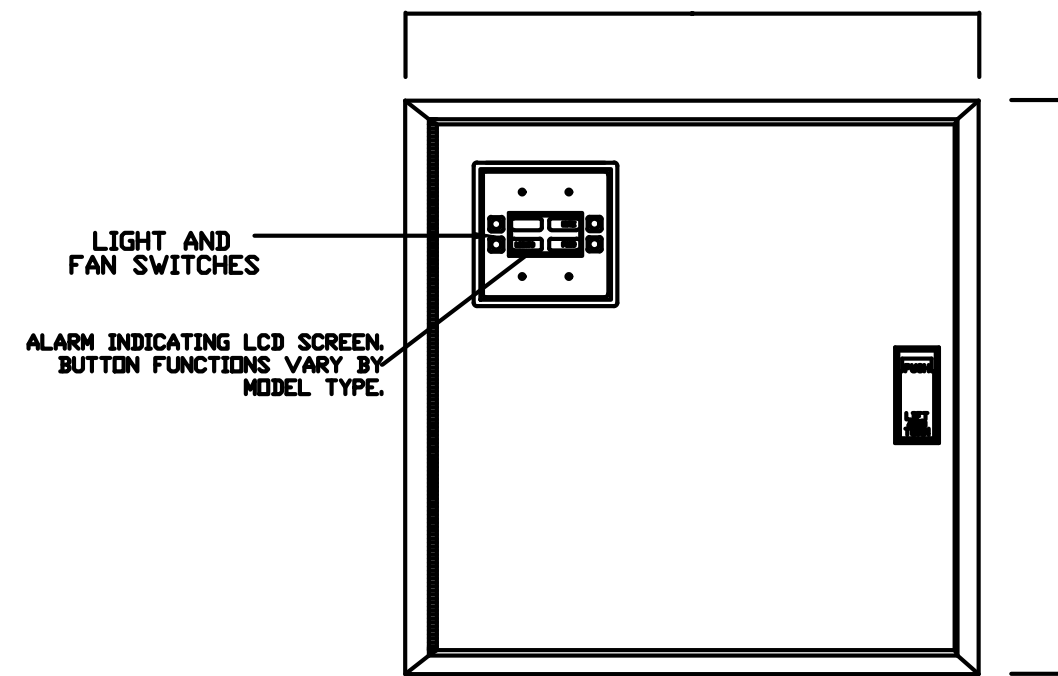
DO NOT INSTALL CONTROL BOX OR TOUCHPAD NEAR APPLIANCES OR ANY HEAT SOURCE

BOX MUST BE INSTALLED IN A SERVICABLE LOCATION, AND AWAY FROM ANY GREASE & HEAT SOURCES.

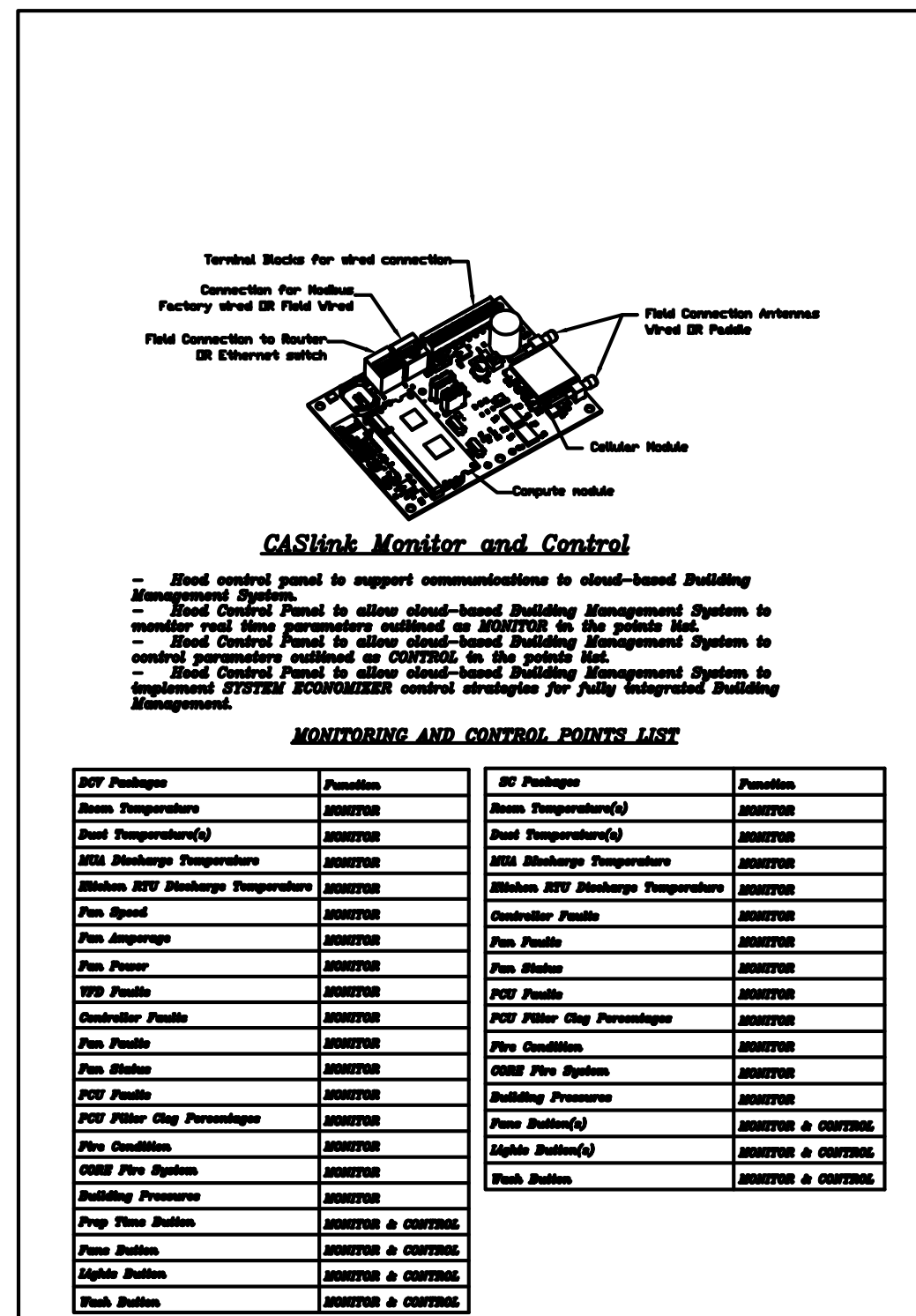
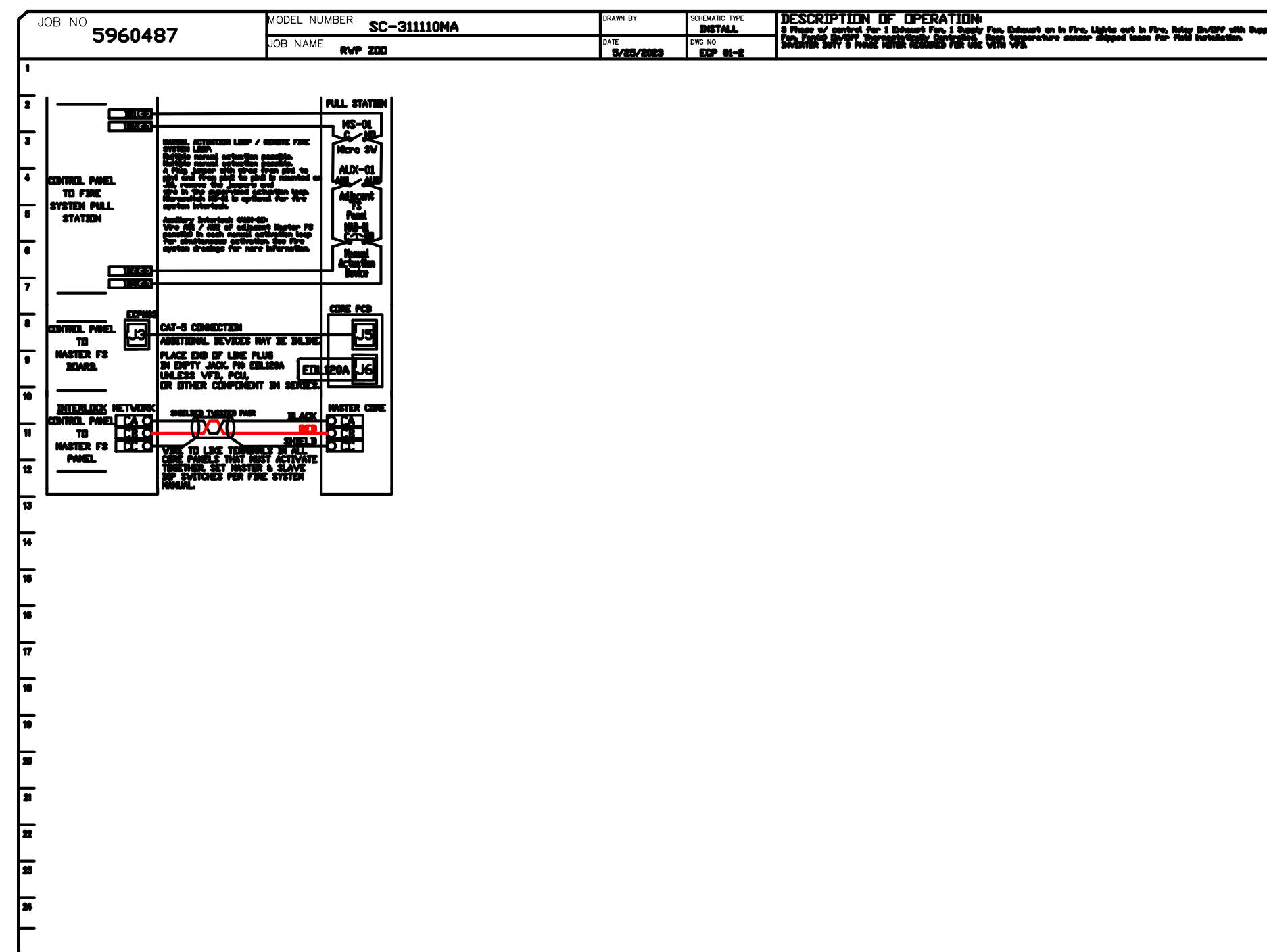
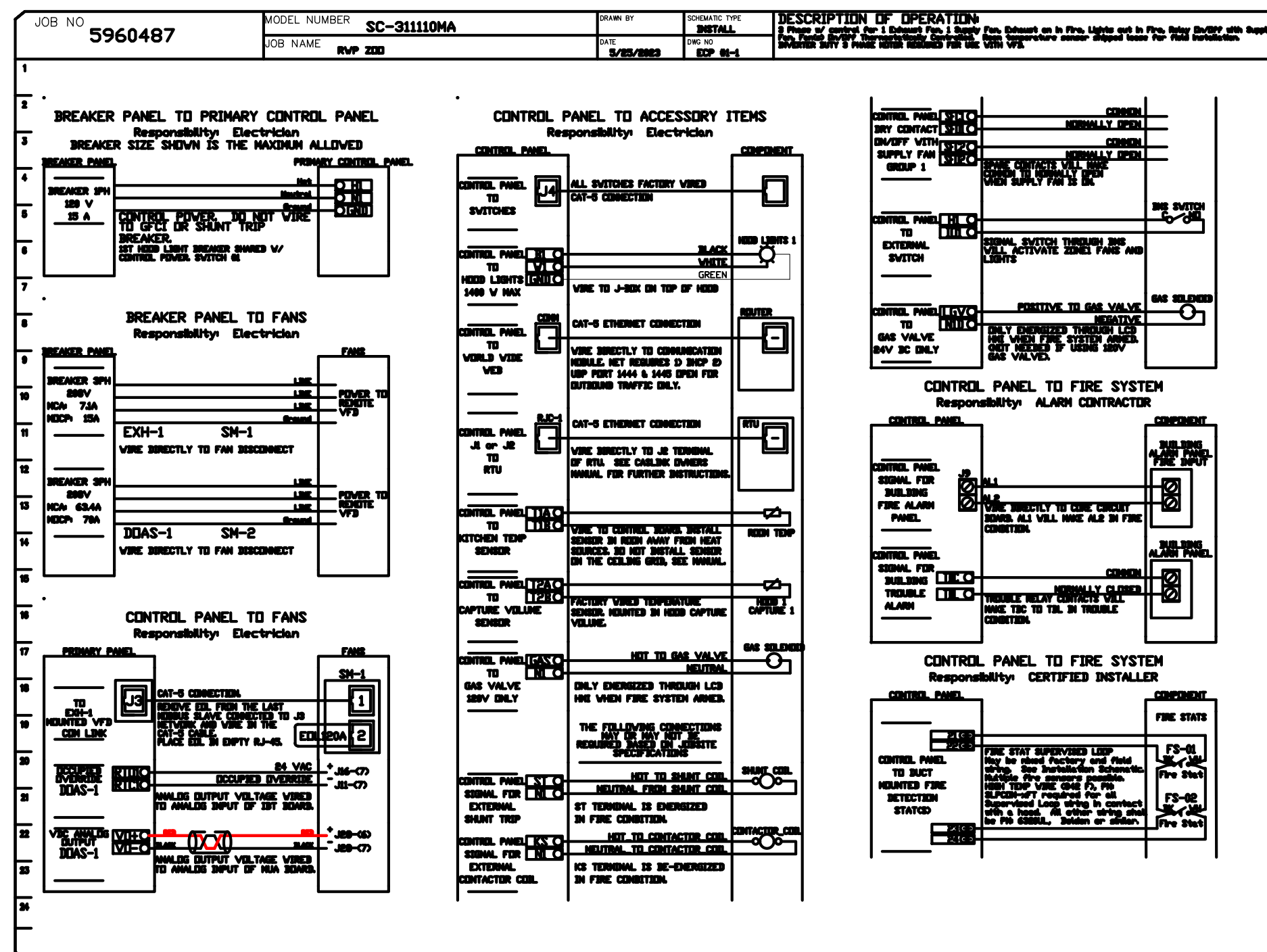
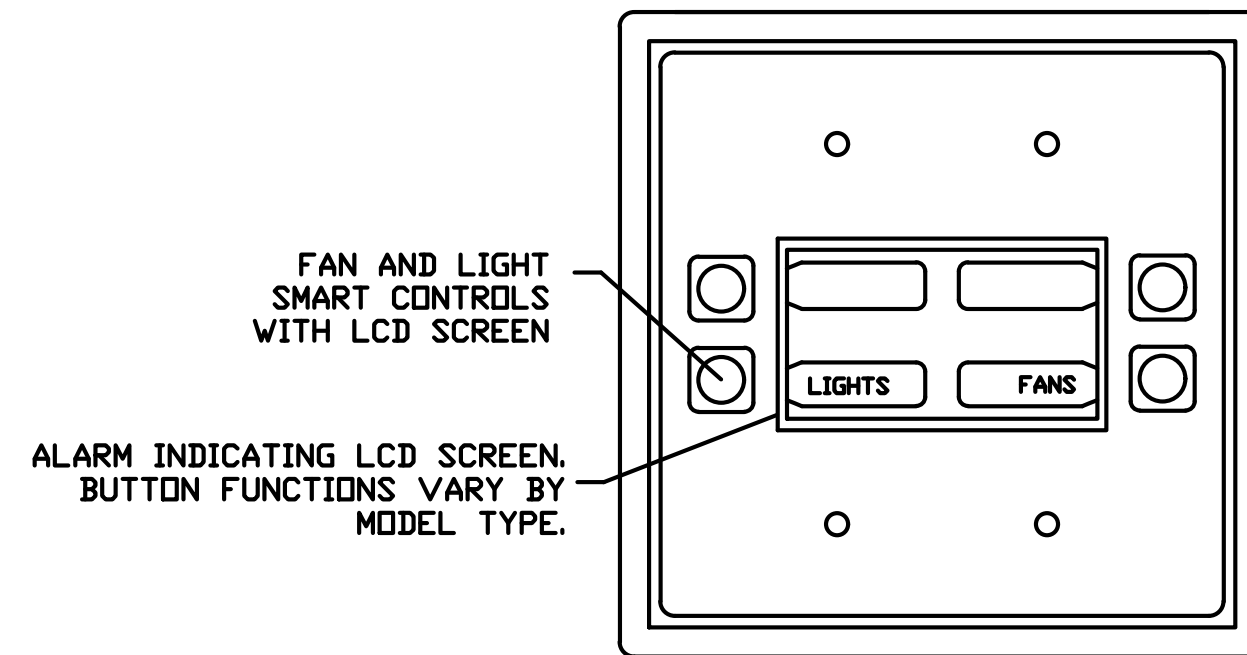
SPECIFICATIONS: ELECTRICAL PACKAGE (SEE TABLE FOR DETAILS)
 A PRE-WIRED ELECTRICAL CONTROL PACKAGE SHALL BE PROVIDED TO OPERATE THE HOOD LIGHTS AND FANS. THE WIRING OPTION, LOCATED IN A HINGED COVERED ELECTRICAL BOX, SHALL INCLUDE A STAINLESS STEEL SWITCH PANEL CONSISTING OF AND LCD SCREEN INTERFACE TO PROVIDE FAN(S) & LIGHT CONTROL, A STARTER/OVERLOAD ASSEMBLY OR VFD FOR EACH 3 PHASE FAN (OPTIONAL), NUMBERED INPUT/OUTPUT TERMINAL STRIPS, AND A TERMINAL STRIP FOR DOUBLE-DUAL FIRE SYSTEM MICROSWITCH CONNECTION. ONE MICROSWITCH IS WIRED TO A RELAY FOR SUPPLY FAN SHUTDOWN AND A RELAY FOR ADDITIONAL FIRE SYSTEM ACTIVATED DRY CONTACTS, AND THE OTHER MICROSWITCH REMAINS OPEN FOR CONNECTION OF BUILDING FIRE ALARM SYSTEM (DRY CONTACTS). A WIRING DIAGRAM SHOWING THE CONNECTIONS OF THESE PARTS IS LOCATED ON THE DOOR.

ELECTRICAL CONDUIT DROPS FROM THE FAN(S) SHALL BE CONNECTED TO THE NUMBERED TERMINAL STRIP. CONDUIT BETWEEN THE PRE-WIRE PACKAGE AND THE FAN(S) SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR.

DETAIL OF REMOTE S/S BOX



DETAIL OF HMI LCD TOUCHPAD



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE

Boston/Rhode Island Mechanical

3 Boulevard St., 2nd Floor, Milton, MA, 02186 PHONE: (617) 681-7077 FAX: (617) 681-7077 EMAIL: reg@captiveme.com

RWP ZOO

1000 Elmwood Avenue,
Providence, RI, 02907

DATE: 5/25/2023

DWG.#:
5960487

DRAWN BY:

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
8

SZ ARCHITECTS

Saccoccio & Associates, Inc.

1085 Park Avenue tel 401.942.7970
Cranston, Rhode Island fax 401.942.7975
02910

Consultant

ENGINEERING DESIGN SERVICES INCORPORATED

141 South Main Street
Providence, RI 02903
Tel: (401) 753-7537 Fax: (401) 753-0998

Education Center,
Animal Building, &
Pavilion

ROGER WILLIAMS PARK ZOO

100 ELMWOOD AVENUE
PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

Issued for Bid
05/01/2024

SHEET TITLE

MECHANICAL REFERENCE DRAWINGS

DRAWN BY: MFMA/JV JOB NUMBER: 18050
CHECKED BY: WTM DATE: 04/18/2024

M5.8R

SHEET: OF:

PLUMBING GENERAL NOTES

1. BIDDERS SHALL UTILIZE A COMPLETE SET OF PLUMBING BIDDING DOCUMENTS IN PREPARING OF BID INCLUDING DRAWINGS AND SPECIFICATIONS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ERRORS OR MISINTERPRETATIONS RESULTING FROM THE USE OF INCOMPLETE SETS OF PLUMBING BIDDING DOCUMENTS.

THESE PLUMBING BIDDING DOCUMENTS SHALL INCLUDE:

SPECIFICATION
220000 PLUMBING SPECIFICATION

DRAWINGS
P0.0 PLUMBING LEGEND AND GENERAL NOTES
A-P1.0A PLUMBING EDUCATION BUILDING UNDERSLAB PART PLAN A
A-P1.0B PLUMBING EDUCATION BUILDING UNDERSLAB PART PLAN B
A-P1.1A PLUMBING EDUCATION BUILDING LOWER LEVEL PART PLAN A
A-P1.1B PLUMBING EDUCATION BUILDING LOWER LEVEL PART PLAN B
A-P1.2 PLUMBING EDUCATION BUILDING UPPER LEVEL FLOOR PLAN
A-P1.3 PLUMBING EDUCATION BUILDING ROOF PLAN
B-P1.0 PLUMBING PAVILION UNDERSLAB PLAN
B-P1.1 PLUMBING PAVILION PART PLANS NOTES & SCHEDULES
C-P1.0 PLUMBING ANIMAL BUILDING UNDERSLAB PLAN
C-P1.1 PLUMBING ANIMAL BUILDING LOWER LEVEL FLOOR PLAN
C-P1.2 PLUMBING ANIMAL BUILDING UPPER LEVEL FLOOR PLAN

- THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE PLUMBING SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT.
- ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE PLUMBING SUB-CONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE BUILDING CODE, LOCAL FUEL GAS AND PLUMBING CODES, ALL LOCAL CODES AND REGULATIONS, NATIONAL FIRE PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
- ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES AND EQUIPMENT.
- WHERE WATER PIPING IS SHOWN DROPPING INTO PLUMBING CHASES WITH SIZES NOTED, THAT SIZE SHALL BE CARRIED FULL LENGTH THROUGH THE CHASE.
- SHOCK ABSORBERS SHALL BE EXTENDED VERTICALLY WITHIN CHASE TO ABOVE FINISHED CEILING. SHUTOFF VALVES SHALL BE INSTALLED DIRECTLY BEFORE THE DEVICE TO ENABLE THE REPLACEMENT WITHOUT HAVING TO SHUT DOWN THE ENTIRE BRANCH OR MAIN.
- MISCELLANEOUS DISCREPANCIES OR OMISSIONS WHICH MIGHT APPEAR ON THE PLANS OR SPECIFICATIONS WILL NOT RELIEVE THE PLUMBING SUB-CONTRACTOR OF CODE COMPLIANCE.

PLUMBING GROUNDWATER DRAINAGE NOTES:

- PROVIDE A COMPLETE UNDERSLAB WATER DRAINAGE SYSTEM PER GEOTECHNICAL REPORT.
- PROVIDE A COMPLETE FOUNDATION PERIMETER WATER DRAINAGE SYSTEM PER GEOTECHNICAL REPORT.
- REFER TO XXX" DRAWINGS.
- DESIGN OF SYSTEM BY OTHERS.
- INSTALLATION SHALL BE BY THIS PLUMBING CONTRACTOR.
- TERMINATION OF SYSTEM SHALL DAYLIGHT TO POND. AN INTERIOR GROUND WATER PUMPING SYSTEM SHALL NOT BE REQUIRED.

PLUMBING PIPE MATERIAL SPECIFIC TO MECHANICAL ROOMS AND KITCHENS NOTES:

- PIPING WASTE SYSTEMS SHALL BE IN ACCORDANCE WITHIN 2019 RHODE ISLAND PLUMBING CODE 702.5 TEMPERATURE RATING. WHERE THE WASTE WATER TEMPERATURE WILL BE GREATER THAN 140°F, THE SANITARY DRAINAGE PIPING MATERIAL SHALL BE RATED FOR THE HIGHEST TEMPERATURE OF THE WASTE WATER.
- SCHEDULE 40 PVC PIPING MAXIMUM OPERATING TEMPERATURE SHALL NOT EXCEED 140°F INTENDED FOR USE IN NON-PRESSURE APPLICATIONS.
- ALL MECHANICAL ROOM WASTE PIPING MATERIAL SHALL BE CAST IRON PIPE AND FITTINGS IN ITS ENTIRETY WITH NO EXCEPTIONS. SUBSTITUTION OF MATERIAL WILL NOT BE ALLOWED BY THE ENGINEER INCLUDING ANY VALUE ENGINEERING PERFORMED BY THE GENERAL CONTRACTOR, PLUMBING CONTRACTOR AND OWNER.
- ALL KITCHEN WASTE PIPING MATERIAL SHALL BE CAST IRON PIPE AND FITTINGS IN ITS ENTIRETY WITH NO EXCEPTIONS. SUBSTITUTION OF MATERIAL WILL NOT BE ALLOWED BY THE ENGINEER INCLUDING ANY VALUE ENGINEERING PERFORMED BY THE GENERAL CONTRACTOR, PLUMBING CONTRACTOR AND OWNER.

PLUMBING PVC AND CPVC PIPE FIRE RATED PENETRATIONS NOTES

- FLOOR PENETRATION SHALL BE PROVIDED WITH A UL LISTED FIRESTOP DEVICE. EVERY PIPE AND PLUMBING FIXTURE SHALL BE INCLUDED BUT NOT LIMITED TO THE FOLLOWING: WATER RISERS, SANITARY STACKS, WASTE STACKS, VENT STACK, RAIN LEADER STACKS, LAUNDRY WASTE STACKS, INDIRECT WASTE STACKS, WATER CLOSETS, SINK AND LAVATORY WASTE PIPES, BATHTUBS, SHOWER DRAINS, FLOOR DRAINS AND ROOF DRAINS.
- SYSTEMS WHICH REQUIRE PIPE INSULATION SHALL BE PROVIDED WITH BOTH INSULATION AND FIRE WRAP.

PLUMBING HOT WATER PIPING DISTRIBUTION NOTES:

- EACH HOT WATER PIPING SYSTEM DESIGNED IN ACCORDANCE WITH 2018 INTERNATIONAL ENERGY CONSERVATION CODE C404.5.1 AND TABLE C404.5.1.
- BRANCH PIPING SHALL BE A CONTINUOUS LOOP SYSTEM WITH A MAXIMUM ALLOWABLE PIPING LENGTH FROM THE NEAREST SOURCE OF HEATED HOT WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE.

MAXIMUM PIPING LENGTHS SERVING PUBLIC LAVATORY FAUCETS
1/2" PIPE = 2'-0"
3/4" PIPE = 6"
1" PIPE = 6"
1 1/4" PIPE = 6"
1 1/2" PIPE = 6"
2" PIPE = 6"

MAXIMUM PIPING LENGTHS SERVING OTHER FIXTURES AND APPLIANCES
1/2" PIPE = 43'-0"
3/4" PIPE = 21'-0"
1" PIPE = 13'-0"
1 1/4" PIPE = 8'-0"
1 1/2" PIPE = 6'-0"
2" PIPE = 4'-0"

PLUMBING LEGEND

PIPING

SYMBOL	ABBREVIATION	DESCRIPTION
		NEW WORK (ABOVE GROUND) (PERTAINS TO ALL SYSTEM)
		NEW WORK (BELOW GROUND) (PERTAINS TO ALL SYSTEM)
	CW	COLD WATER
	ESPPD	ELEVATOR SUMP PUMP PRESSURE DISCHARGE
	HW	HOT WATER 120°F
	HWC	HOT WATER RECLULATION
	140	140HW HOT WATER 140°F
	IW	INDIRECT WASTE
	KW	KITCHEN WASTE
	NPCW	NON-POTABLE COLD WATER
	NPHW	NON-POTABLE HOT WATER WITH TEMPERATURE MAINTENANCE CABLE
	RL	RAIN LEADER (PRIMARY)
	SRL	RAIN LEADER (SECONDARY OVERFLOW)
	S or W	SOIL OR WASTE
	SWS	SOLAR WATER SUPPLY
	SWR	SOLAR WATER RETURN
	SW	SPECIAL WASTE (SERVES ANIMAL HABITAT AREA - NONCORROSIVE)
	V	VENT

VALVES

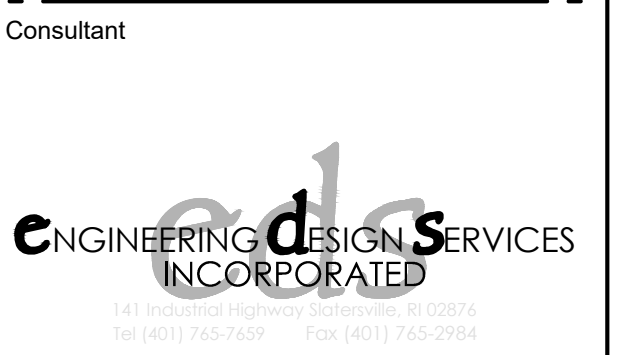
SYMBOL	ABBREVIATION	DESCRIPTION
	BV	BALANCING VALVE
		BALANCING VALVE ASSEMBLY
	CV	CHECK VALVE
	DV-A	DRAIN VALVE TYPE WITH HOSE THREADS
	HB-A	HOSE BIBB TYPE WITH HOSE THREADS
		HOT WATER CLULATION FLOW SPLITTER
	PRV	PRESSURE REDUCING VALVE
		SHUTOFF VALVE
	SV	SOLENOID VALVE
	VIV	VALVE IN VERTICAL

GENERAL

SYMBOL	ABBREVIATION	DESCRIPTION
	CI	CAST IRON PIPE AND FITTINGS
	CO	CLEANOUT
	FCO	CLEANOUT (FLUSH FLOOR)
	CU	COPPER PIPE AND FITTINGS
	FD-A	DRAIN (FLOOR DRAIN & TYPE)
	FS-A	DRAIN (FLOOR SINK & TYPE)
	TD-A	DRAIN (TRENCH DRAIN & TYPE)
	DN	DOWN (PENETRATES LEVEL BELOW) DROP (DOES NOT PENETRATE LEVEL BELOW)
	FFE	FINISHED FLOOR ELEVATION
	FGE	FINISHED GRADE ELEVATION
	P-1	FIXTURE DESIGNATION
	FAI	FRESH AIR INTAKE
		INDICATES DIRECTION OF FLOW
		INDICATES DIRECTION OF SLOPE DOWN
	INV	INVERT ELEVATION
		PIPE ANCHOR
	PVC	PVC SCHEDULE 40 SOLID WALL PIPE AND FITTINGS
		RISE (DOES NOT PENETRATE LEVEL ABOVE)
	SA	SHOCK ABSORBER
		SLEEVE
	S=.01	SLOPE = 1/8" PER FOOT - 1%
	S=.02	SLOPE = 1/4" PER FOOT - 2%
	S=.04	SLOPE = 1/2" PER FOOT - 4%
	UP	UP (PENETRATES LEVEL ABOVE)
	VTR	VENT THROUGH ROOF
	WH	WALL HYDRANT
	WTS	WATER TIGHT SLEEVE
	W & T	WASTE & TRAP



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Education Center,
Animal Building, &
Pavilion



100 ELMWOOD AVENUE
PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

Issued for Bid
05/01/2024

SHEET TITLE
**PLUMBING
LEGEND,
AND
GENERAL NOTES,**

DRAWN BY: RWC	JOB NUMBER: 18050
CHECKED BY: GGM	DATE: 04/18/2024

P0.0

SHEET: OF:

FIRE PROTECTION DESIGN NOTES

- APPLICABLE LAWS, REGULATIONS AND STANDARDS
ALL MATERIAL AND WORK PROVIDED SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
1. LOCAL WATER DEPARTMENT
2. STATE BUILDING AND FIRE CODE
3. AUTHORITY HAVING JURISDICTION
4. 2013 NFPA 13 - INSTALLATION OF SPRINKLER SYSTEMS & ALL REFERENCED DOCUMENTS NOTED IN CHAPTER 10.
5. NFPA 25 - INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS.
6. OWNER'S INSURANCE COMPANY
7. STANDARDS OF THE UNDERWRITERS LABORATORIES (UL)
- DESIGN RESPONSIBILITY FOR SPRINKLER SYSTEM
ENGINEERING DESIGN SERVICES, INC. PROVIDES A PERFORMANCE-BASED DESIGN AND SPECIFIES THE DESIGN CRITERIA TO BE USED BY THE INSTALLING CONTRACTOR WHO FINALIZES THE SYSTEM LAYOUT AND PROVIDES HYDRAULIC CALCULATIONS TO CONFIRM DESIGN CRITERIA. THE WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE FIRE PROTECTION IN THE STATE OF RHODE ISLAND AND SUBMITTED TO THE BUILDING DEPARTMENT AND LOCAL FIRE DEPARTMENT FOR FINAL REVIEW AND APPROVAL. THE PROFESSIONAL ENGINEER IS CONSIDERED THE ENGINEER OF RECORD AND CERTIFIES SYSTEM INSTALLATION FOR CODE COMPLIANCE AT COMPLETION OF THE INSTALLATION.
- SPRINKLER SYSTEM TO BE INSTALLED
FURNISH AND INSTALL A COMPLETE AUTOMATIC SPRINKLER SYSTEM WITHIN THE RENOVATED AREAS OF THE BUILDING, HYDRAULICALLY DESIGNED ON A COMPUTER PROGRAM.
- THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH THE FOLLOWING DESIGN DENSITIES:
LIGHT HAZARD OCCUPANCIES
OFFICE AREAS, TOILET ROOMS, UNOCCUPIED ATTIC
DESIGNED FOR: 10 GPM OVER THE MOST REMOTE 1500 OR 1950 SQUARE FEET OR AS ALLOWED BY NFPA 13.
ADDITIONAL 100 GALLON PER MINUTE FLOW FOR EXTERIOR FIRE HOSE FLOW
MAXIMUM SPACING OF 225 SQUARE FEET PER SPRINKLER HEAD EXCEPT ATTIC (OR INDICATED).
ORDINARY HAZARD OCCUPANCIES GROUP 1
WORK ROOMS, MECHANICAL ROOMS
DESIGNED FOR: 15 GPM OVER THE MOST REMOTE 1500 SQUARE FEET OR AS REQUIRED BY NFPA 13.
ADDITIONAL 250 GALLON PER MINUTE FLOW FOR EXTERIOR FIRE HOSE FLOW
MAXIMUM SPACING OF 130 SQUARE FEET PER SPRINKLER HEAD UNLESS OTHERWISE NOTED OR INDICATED.
- THE OCCURRENCE OF FIRE OR ANY OTHER SOURCE OF HEAT GENERATED IN A SUFFICIENT AMOUNT TO FUSE HEAT SENSITIVE ELEMENTS AT INDIVIDUAL FIRE SPRINKLERS OR A BREAK AT ANY POINT WITHIN THE FIRE SPRINKLER PIPING SYSTEM EQUAL TO THE WATER FLOW FROM ONE FIRE SPRINKLER WILL CAUSE THE BASE BUILDING MAIN ALARM CHECK VALVE ASSEMBLY WATER FLOW SWITCH TO ACTIVATE. WHEN ELECTRICAL CONTACTS WITHIN THE MAIN ALARM CHECK VALVE WATER FLOW SWITCHES ACTIVATE, AN ALARM SIGNAL IS SENT TO THE FIRE ALARM CONTROL PANEL CAUSING THE PANEL TO ACKNOWLEDGE AN ALARM CONDITION.
- FINAL SYSTEM ACCEPTANCE REQUIREMENTS FOR THE FIRE SPRINKLER SYSTEM WILL BE AS REQUIRED BY NFPA 13 CHAPTER 16.
- THE BUILDING FIRE SPRINKLER SYSTEM WILL BE HYDROSTATICALLY TESTED PER NFPA #13. ALL VALVE SUPERVISORY SWITCHES AND WATER FLOW INDICATORS WILL BE TESTED FOR PROPER OPERATION AND INTEGRATION IN TO THE BUILDING FIRE ALARM SYSTEM AS REQUIRED BY NFPA #12.
- TESTING SHALL BE IN ACCORDANCE WITH STATE CODE AND BE WITNESSED BY THE LOCAL FIRE DEPARTMENT TO THEIR SPECIFICATIONS AND SATISFACTION.
- INSTALL SPRINKLERS ABOVE CEILINGS WHERE REQUIRED BY THE STATE OF RHODE ISLAND FIRE SAFETY CODE AND NFPA 13. THIS REQUIREMENT APPLIES TO ALL CONCEALED SPACES ABOVE CEILINGS THAT CONTAIN COMBUSTIBLE MATERIALS AS DEFINED BY NFPA 220. SPECIAL APPLICATION COMBUSTIBLE CONCEALED SPACE SPRINKLER TO BE INSTALLED WHEN REQUIRED SPECIAL APPLICATION COMBUSTIBLE CONCEALED SPACE SPRINKLER TO BE INSTALLED WHEN REQUIRED IN ACCORDANCE WITH NFPA 13.

FIRE PROTECTION SPECIFIC NOTES:

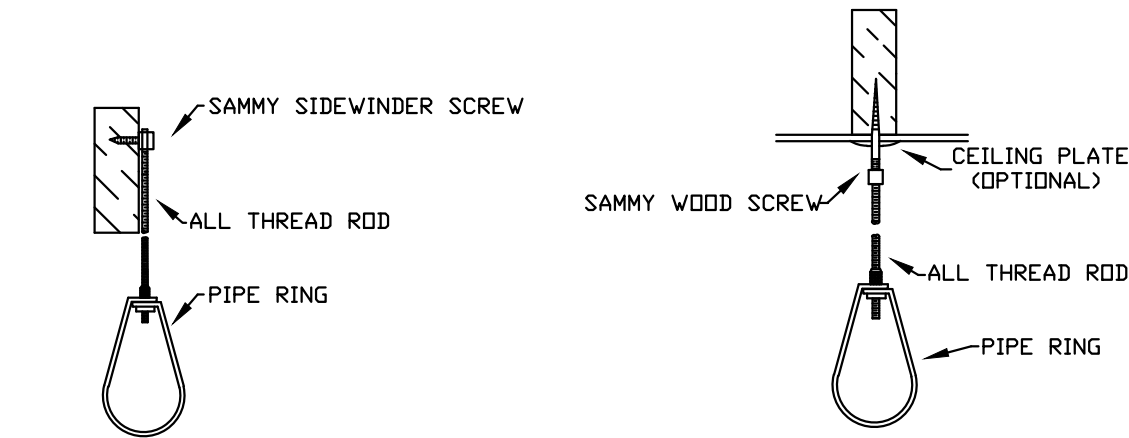
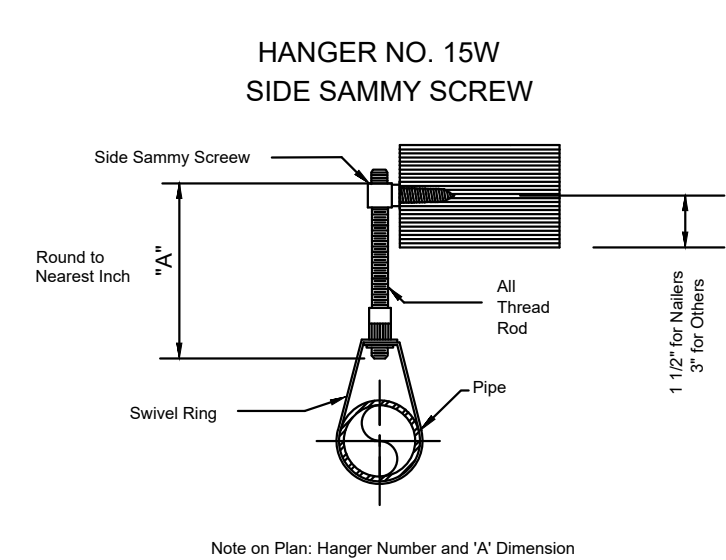
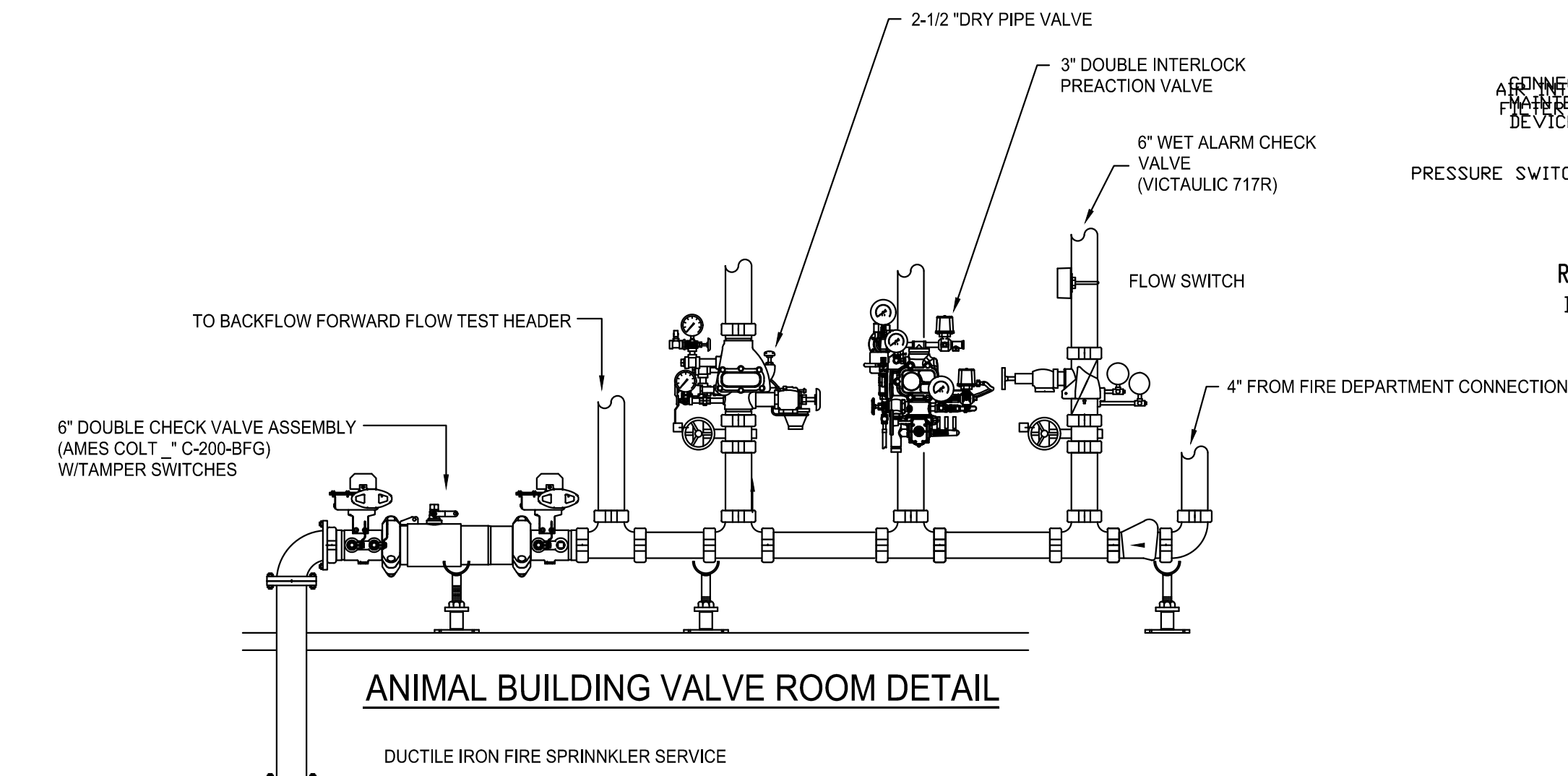
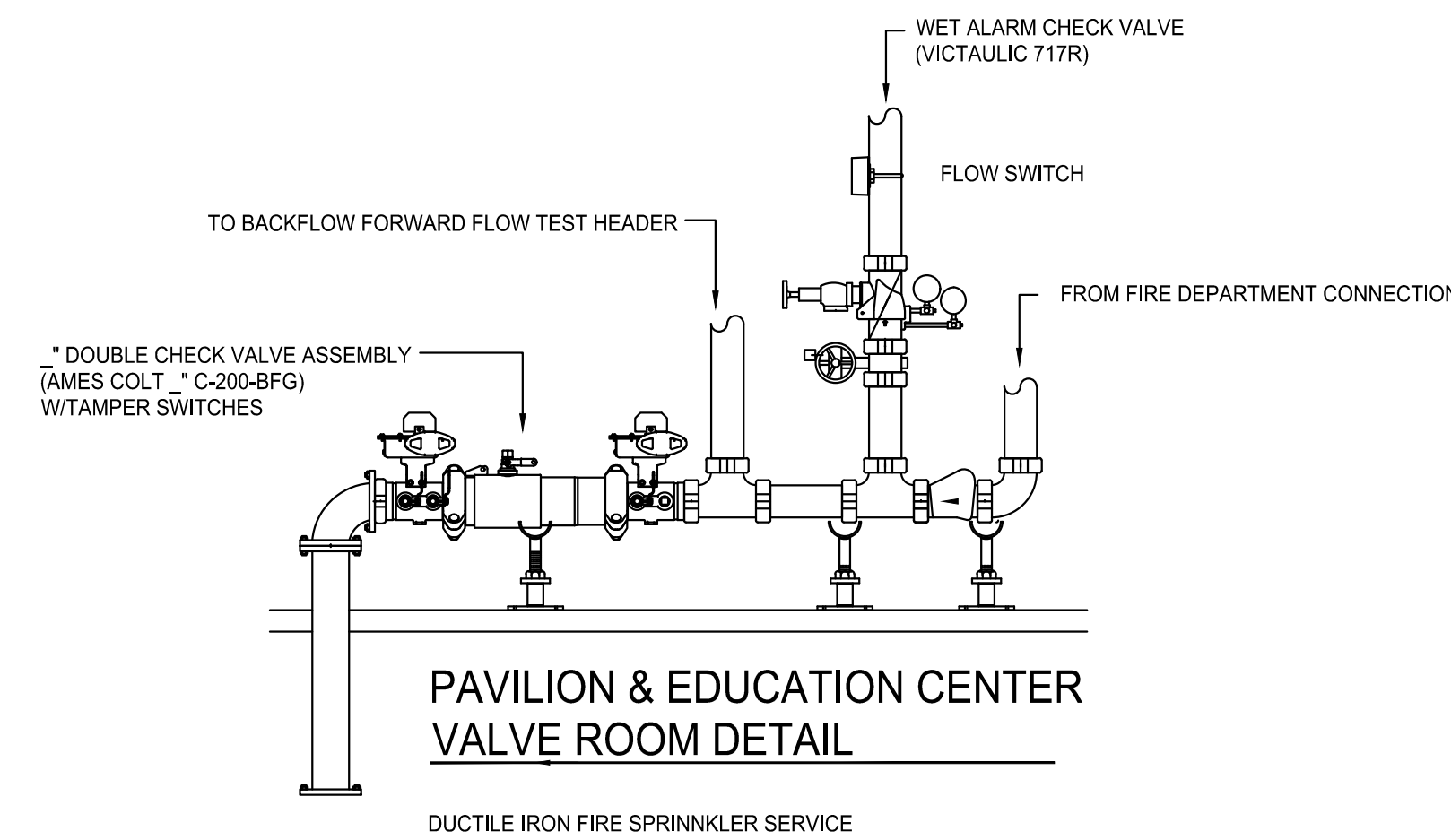
- BIDDERS SHALL UTILIZE A COMPLETE SET OF FIRE PROTECTION BIDDING DOCUMENTS IN PREPARING OF BID INCLUDING DRAWINGS AND SPECIFICATIONS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ERRORS OR MISINTERPRETATIONS RESULTING FROM THE USE OF INCOMPLETE SETS OF FIRE PROTECTION BIDDING DOCUMENTS.
THE FIRE PROTECTION BIDDING DOCUMENTS SHALL INCLUDE:
SPECIFICATION
SEE PROJECT MANUAL
DRAWINGS
FP100.0 THROUGH FP104.7 (27 DRAWINGS)
- THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT.
- ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE FIRE PROTECTION SUB-CONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE BUILDING CODE, ALL LOCAL CODES AND REGULATIONS, NATIONAL FIRE PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
- ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.
- IT IS THE INTENT OF THESE DOCUMENTS THAT THE RENOVATED AREA BE PROVIDED WITH 100% SPRINKLER COVERAGE PER NFPA 13.
- SPRINKLERS LOCATED IN ELECTRICAL ROOMS SHALL BE REQUIRED UNLESS THE STANDARDS OF NFPA 8.15.10 ELECTRICAL EQUIPMENT HAS BEEN SATISFIED. PROVIDE SPRINKLER GUARDS PER NFPA 8.2.8.
- CONTRACTOR SHALL PERFORM HYDRANT FLOW TEST TO DETERMINE PIPE SIZING. SIZES SHOWN ARE PRELIMINARY ONLY.
- PROVIDE A COMPLETE HYDRAULICALLY CALCULATED SPRINKLER SYSTEM THROUGHOUT THE RENOVATED AREA. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH NFPA 13 AND INCLUDING ALL RULES AND REGULATIONS OF THE LOCAL FIRE DEPARTMENT.
- THE SPRINKLER CONTRACTOR SHALL PREPARE WORKING DRAWINGS OF THE SPRINKLER WORK AND OBTAIN APPROVALS FROM THE LOCAL FIRE DEPARTMENT PRIOR TO INSTALLATION.
- ROUTING OF SPRINKLER MAINS, BRANCHES AND HEADS SHALL BE THOROUGHLY COORDINATED WITH OTHER FIRE PROTECTIONS AND BUILDING STRUCTURE PRIOR TO SUBMISSION OF COORDINATED SHOP DRAWINGS.
- SPRINKLER HEAD FINISHES SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
SPRINKLER HEADS IN AREAS WITH NO FINISHED CEILING SHALL BE UPRIGHT TYPE LOCATED AS HIGH AS POSSIBLE
SPRINKLER HEADS IN FINISHED AREAS SHALL BE WHITE PLATED PENDANT TYPE WITH ESCUTCHEON PLATE
- MISCELLANEOUS DISCREPANCIES OR OMISSIONS WHICH MIGHT APPEAR ON THE PLANS OR SPECIFICATIONS WILL NOT RELIEVE THE FIRE PROTECTION SUB-CONTRACTOR OF CODE COMPLIANCE.
- SPRINKLER PROTECTION SHALL BE PROVIDED ABOVE ANY AND ALL CEILINGS INSTALLED BENEATH COMBUSTIBLE CONCEALED SPACES WHEN REQUIRED. SPECIAL APPLICATION UPRIGHT SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING.

FIRE PROTECTION GENERAL NOTES

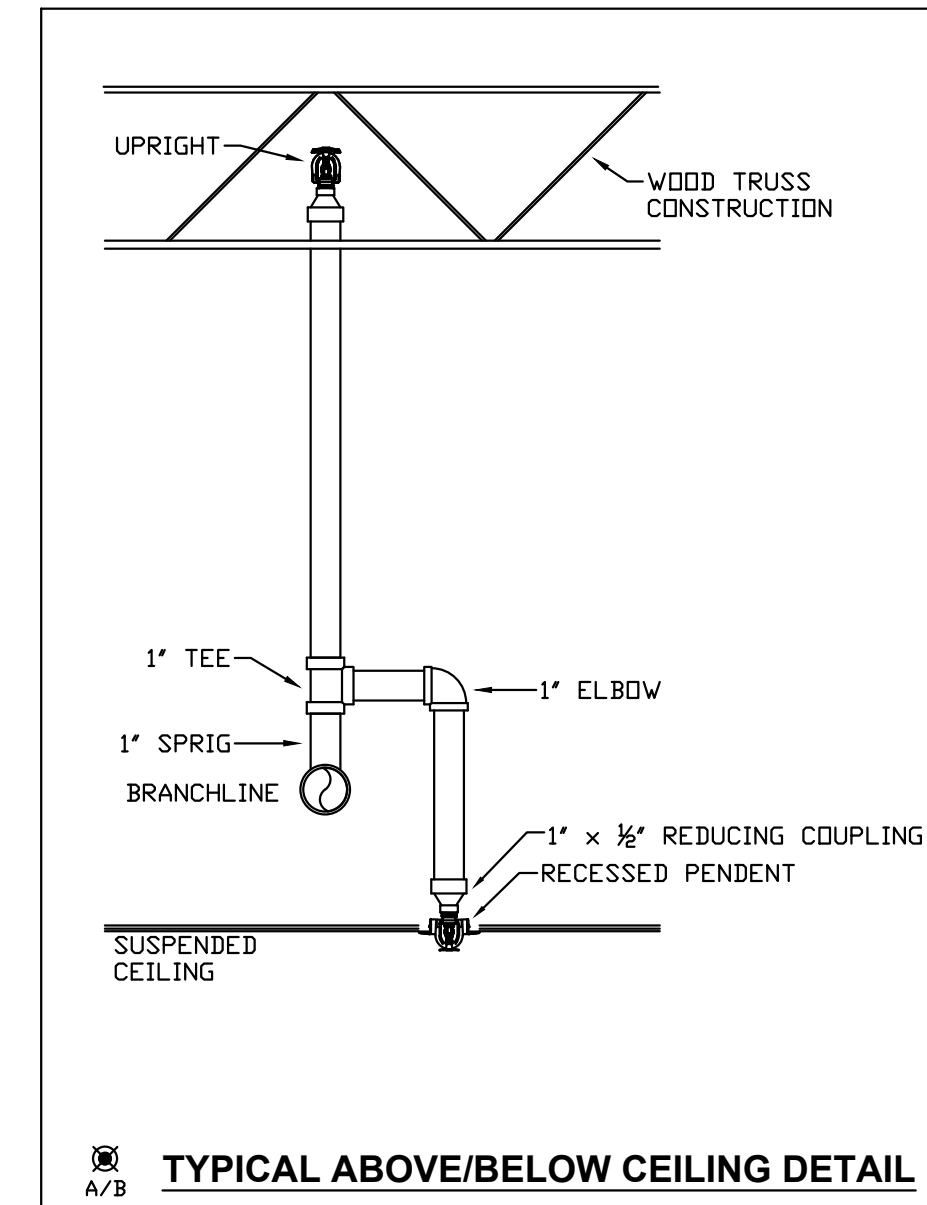
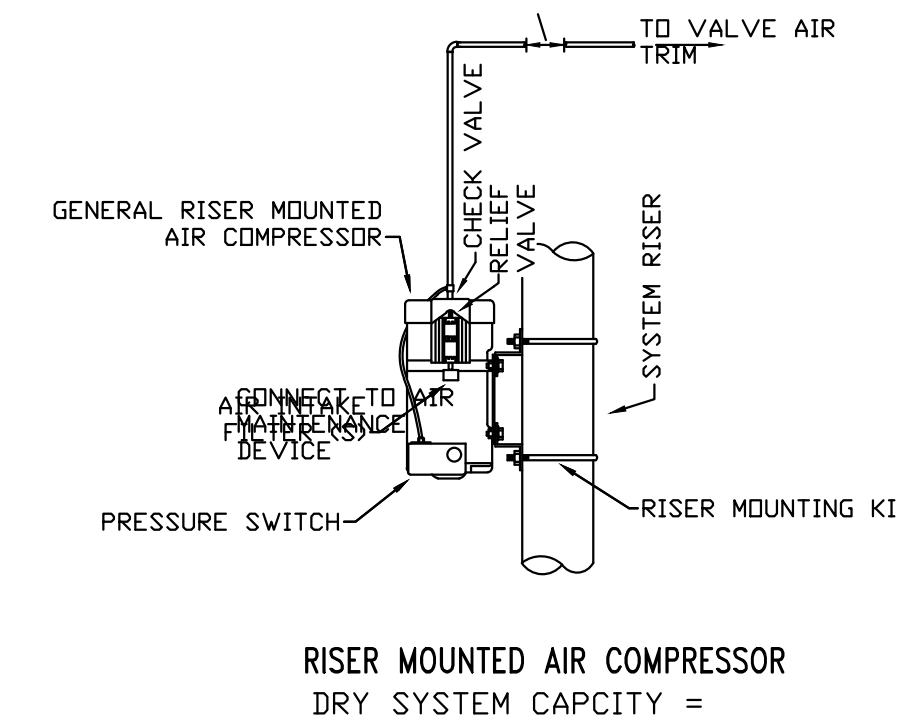
- THE FIRE PROTECTION WORK COVERED HEREIN SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION SUB-CONTRACTOR HIRED BY THE GENERAL CONTRACTOR TO PROVIDE ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND MAKE READY FOR CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT.
- ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE FIRE PROTECTION CONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE BUILDING CODE, ALL LOCAL CODES AND REGULATIONS, NATIONAL FIRE PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
- ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.
- SHOP DRAWINGS: SHOP DRAWINGS OF ALL SPECIFIED HARDWARE AND APPARATUS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- GUARANTEE: ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS SPECIFICATION SHALL BE GUARANTEE IN WRITING FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE BUILDING BY THE OWNER.
- INSPECTION: ALL WORK SHALL BE SUBJECT TO THE INSPECTION OF THE OWNER, THE ARCHITECT AND SUCH OTHER INSPECTORS HAVING JURISDICTION. A PROPERLY EXECUTED CERTIFICATE OF INSPECTION SHALL BE PROVIDED.
- EXAMINATION OF SITE: THE FIRE PROTECTION SUBCONTRACTOR, BEFORE SUBMITTING PRICES OR BEGINNING WORK, SHALL THOROUGHLY EXAMINE THE SITE AND CONTRACT DOCUMENTS. NO CLAIM FOR EXTRA COMPENSATION WILL BE RECOGNIZED IF DIFFICULTIES WHICH AN EXAMINATION OF SITE CONDITIONS AND CONTRACT DOCUMENTS PRIOR TO EXECUTING CONTRACT WOULD HAVE REVEALED.
- COORDINATION: COORDINATE ALL WORK INSTALLED UNDER THIS SPECIFICATION WITH THAT OF ALL OTHER MECHANICAL TRADES.
- PROTECTION OF PROPERTY: PROTECT ALL NEW AND EXISTING WORK BEFORE, DURING AND AFTER INSTALLATION.
- CERTIFICATES OF APPROVAL: UPON COMPLETION OF ALL WORK, THE FIRE PROTECTION SUBCONTRACTOR SHALL FURNISH, IN DUPLICATE, CERTIFICATES OF INSPECTIONS FROM ALL INSPECTORS AND AUTHORITIES HAVING JURISDICTION.
- ALL VALVES SHALL BE PROVIDED WITH A SUPERVISORY SWITCH.
SUPERVISORY SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION SUBCONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. SUPERVISORY SWITCH SHALL BE POTTER ROEMER 6220 OR APPROVED EQUAL.
- FLOW SWITCHES SHALL BE INSTALLED WHERE REQUIRED PER CODE.
FLOW SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION SUB CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. FLOW SWITCH SHALL BE POTTER ROEMER 6200 SERIES, RED, TAMPER-PROOF SWITCH HOUSINGS WITH FLOW PADDLE, ADJUSTABLE PNEUMATIC RETARD SETTING OR APPROVED EQUAL.
- SEE STRUCTURAL DRAWINGS FOR INFORMATION REGARDING CORING THROUGH EXISTING STRUCTURE.

FIRE PROTECTION FLOW TEST NOTES:

FIRE PROTECTION CONTRACTOR SHALL MAKE PROVISIONS FOR OBTAINING UPDATED FLOW TEST AND PRESSURE INFORMATION FOR THIS PROJECT. FLOW TEST INFORMATION NOTED IN THESE CONTRACT DOCUMENTS ARE CONSIDERED PRELIMINARY. A NEW FLOW TEST SHALL BE REQUIRED AT THIS CONTRACTORS EXPENSE.
FLOW TEST DATA INDICATES THE FOLLOWING:
SEPTEMBER 15, 2022
70 PSI STATIC
30 PSI RESIDUAL
840 GPM
FIRE PROTECTION CONTRACTOR SHALL PERFORM A NEW FLOW TEST.
2016 NFPA 13 23.2.1.1 FLOW TEST DATA SHALL BE CONDUCTED NO MORE THAN 12 MONTHS PRIOR TO WORKING PLANS SUBMITTED.
FLOW TEST DATA SHALL INCLUDE:
1. LOCATION AND ELEVATION OF STATIC AND RESIDUAL TEST GAUGE WITH RELATION TO THE RISER REFERENCE POINT:
2. FLOW LOCATION:
3. STATIC PRESSURE:
4. RESIDUAL PRESSURE:
5. GPM FLOW:
6. DATE:
7. TIME:
8. NAME OF PERSON WHO CONDUCTED THE TEST OR SUPPLIED THE INFORMATION:



ALL SPRINKLER HEADS TO BE LOCATED AS REQUIRED TO AVOID OBSTRUCTION FROM BEAMS, WALLS, MECHANICAL EQUIPMENT, ETC.



EDUCATION BUILDING - SPRINKLER HEAD LEGEND

SYM	SPRINKLER TYPE	FINISH	TEMP	K	NPT
○	QUICK RESPONSE UPRIGHT	BRASS	155	5.60	1/2"
⊗	QUICK RESPONSE UPRIGHT ABOVE CLG.	WHITE	155	5.60	1/2"
A/B	QUICK RESPONSE PENDENT	BRASS	155	5.60	1/2"
⊗	QUICK RESPONSE PENDENT	WHITE	155	5.60	1/2"
◀	QUICK RESPONSE SIDEWALL	WHITE	155	5.60	1/2"
◀	QUICK RESPONSE DRY SIDEWALL	WHITE	155	5.60	1/2"

ANIMAL BUILDING - SPRINKLER HEAD LEGEND

SYM	SPRINKLER TYPE	FINISH	TEMP	K	NPT
⊗	QUICK RESPONSE UPRIGHT	BRASS	175	4.20	1/2"
◀	QUICK RESPONSE DRY SIDEWALL	WHITE	155	5.60	1/2"
⊗	QUICK RESPONSE UPRIGHT ABOVE CLG.	WHITE	155	5.60	1/2"
A/B	QUICK RESPONSE PENDENT	BRASS	155	5.60	1/2"
⊗	QUICK RESPONSE PENDENT	WHITE	155	5.60	1/2"
⊗	QUICK RESPONSE DRY PENDENT	WHITE	155	5.60	1"

PAVILION BUILDING - SPRINKLER HEAD LEGEND

SYM	SPRINKLER TYPE	FINISH	TEMP	K	NPT
⊗	QUICK RESPONSE RECESSED PENDENT	WHITE	155	5.60	1/2"
⊗	QUICK RESPONSE UPRIGHT	BRASS	175	4.20	1/2"
○	QUICK RESPONSE UPRIGHT	BRASS	155	5.60	1/2"
⊗	QUICK RESPONSE UPRIGHT ON SPRIG	BRASS	155	5.60	1/2"
◀	DRY SIDEWALL	CHROME	155	5.60	1/2"



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Revision Schedule

Revision Number	Revision Date

Issued for Bid
05/01/2024

SHEET TITLE
**FIRE PROTECTION
LEGEND,
GENERAL NOTES,
AND
DIAGRAMS**

DRAWN BY: DDL JOB NUMBER: 18050

CHECKED BY: GGM DATE: 04/18/2024

FP0.0

SHEET: OF:

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING	SYMBOL	DESCRIPTION	MOUNTING
	LED, INCANDESCENT, COMPACT FLUORESCENT OR H.I.D. LIGHTING FIXTURE. (SUBSCRIPTS: "LT"-# INDICATES FIXTURE TYPE, NUMBER "3" INDICATES CIRCUIT NUMBER, AND LOWER CASE LETTER "c" INDICATES SWITCH/CONTACTOR CONTROLLED BY).	REFER TO LIGHTING FIXTURE SCHEDULE.		RELAY; REFER TO PLANS FOR RATINGS.	
	LINEAR LED LIGHTING FIXTURE; (SUBSCRIPTS INDICATE THE SAME AS ABOVE).	REFER TO LIGHTING FIXTURE SCHEDULE.		CONTACTOR; REFER TO PLANS FOR RATINGS.	
	2x2' LED LIGHTING FIXTURE; (SUBSCRIPTS INDICATE THE SAME AS ABOVE).	REFER TO LIGHTING FIXTURE SCHEDULE.		FUSED DISCONNECT SWITCH. 60AF/50AT INDICATES FRAME SIZE/FUSE SIZE IN THAT ORDER, 3P INDICATES NUMBER OF POLES & 3R INDICATES NEMA RATING. STARTERS FOR HVAC EQUIPMENT BY MECHANICAL CONTRACTOR.	MOUNT 6"-6" AFF TO TOP BREAKER.
	LED WALL MOUNTED LIGHTING FIXTURE. (SUBSCRIPTS INDICATE SAME AS ABOVE).	REFER TO LIGHTING FIXTURE SCHEDULE.		UN-FUSED DISCONNECT SWITCH. 60AF INDICATES FRAME SIZE, 3P INDICATES NUMBER OF POLES & 3R INDICATES NEMA RATING. STARTERS FOR HVAC EQUIPMENT BY MECHANICAL CONTRACTOR.	
	"PL" INDICATES PLUG-LOAD CONTROLLED RECEPTACLE WITH RELAY CONNECTED TO ROOMS LIGHTING CONTROL SYSTEM. TIME SWITCH OR "PL" RECEPTACLE WITH INTEGRAL PROGRAMMABLE TIMER. "PL" RECEPTACLES SHALL BE CLEARLY MARKED PER CODE. "PL" SHALL NOT TURN OFF POWER TO NON-CONTROLLABLE RECEPTACLES ON THE SAME CIRCUIT.			GROUND, PER NEC.	
	SINGLE CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED)	18" A.F.F., UON		HOMERUN TO PANELBOARD; "P" INDICATES PANEL, "1,3" INDICATES CIRCUIT NUMBERS. "GFCI" INDICATES GFCI-TYPE CIRCUIT BREAKER; "IG" INDICATES ISOLATED GROUND CIRCUIT (SEE ISOLATED GROUND RECEPTACLE DETAIL ON DRAWING E3.2 & REFER TO "TYPICAL CIRCUITING DETAIL" ON PLANS.	
	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED)	18" A.F.F.		HOMERUN TO PANELBOARD & CONTROLLED BY SENSORS AND CONTACTOR; "P" INDICATES PANEL, "5" INDICATES CIRCUIT NUMBER.	
	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED. "TV" INDICATES TELEVISION POWER RECEPTACLE MOUNTED AT HEIGHT TO BE COORDINATED WITH THE ARCHITECT AND/OR OWNER. SEE "TYPICAL ELECTRICAL NOTES", #16 ON THE SHEET.)	46" AFF		MANUAL MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS.	48" AFF
	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED. "EWC" INDICATE ELECTRIC WATER COOLER; "WP" INDICATES PROVIDE WP WHILE-IN-USE ENCLOSURE; "WC" INDICATES PROVIDE WP FLIP-LID COVER)	18" A.F.F.		SINGLE POLE SWITCH; "a" INDICATES LIGHTING FIXTURES CONTROLLED.	48" AFF
	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED. "EWC" INDICATE ELECTRIC WATER COOLER; "WP" INDICATES PROVIDE WP WHILE-IN-USE ENCLOSURE; "WC" INDICATES PROVIDE WP FLIP-LID COVER)	18" A.F.F.		THREE-WAY SWITCH; "a" INDICATES LIGHTING FIXTURES CONTROLLED.	48" AFF
	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED. "EWC" INDICATE ELECTRIC WATER COOLER; "WP" INDICATES PROVIDE WP WHILE-IN-USE ENCLOSURE.	46" A.F.F.		WALL SWITCH VACANCY SENSOR (MANUAL "ON" AND AUTOMATIC "OFF") EQUAL TO LEVITON MODEL # OSSMT. INSTALL PER MANUFACTURERS INSTRUCTIONS.	48" AFF
	SINGLE CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED.	18" A.F.F.		ULTRASONIC OCCUPANCY SENSOR EQUAL TO LEVITON MODEL # OSC10-RUW/ OSC20-RUW. WIRE TO POWER-PACK OR CONTROLLER PER MANUFACTURERS INSTRUCTIONS. SET DELAY TIMES FOR 15 MINUTES.	CEILING
	QUADRUPLX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED)	18" A.F.F.		POWER PACK FOR "DT" & "US" VACANCY SENSORS. WIRE PER MANUFACTURERS INSTRUCTIONS FOR MANUAL "ON" WITH WALL LOW VOLTAGE SWITCH AND AUTOMATIC "OFF" WITH SENSOR.	ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL IN GYPSUM CEILINGS.
	SPECIAL NEMA CONFIGURATION OUTLET; VERIFY NEMA TYPE WITH EQUIPMENT TO BE SERVED.			LOW VOLTAGE MANUAL ON - OFF SWITCH EQUAL TO LEVITON MODEL # RDGSW-2CW; "a" INDICATES LIGHTING FIXTURES CONTROLLED. WIRE TO POWER-PACK PER MANUFACTURER'S INSTRUCTIONS	48" AFF
	SURFACE RACEWAY WITH POWER & TELE/DATA OUTLETS INSTALLED. PROVIDE WIREMOLD 40N2 CABLE SMART SYSTEM WITH ALL REQUIRED ACCESSORIES AND FITTINGS OR EQUAL. REFER TO DETAIL ON DWG. E____ LOCATION WITHIN 6'-0" OF SINKS SHALL BE PROVIDED WITH GFCI RECEPTACLES.	ABOVE COUNTER BACKSPASH, UON		PROGRAMMABLE TIME SWITCH. PROGRAM ON/OFF TIMES PER THE OWNER'S DIRECTION AND ADJUST ALL SET-POINTS (LATITUDE, TIME OF DAY, DATE, ETC.) TO CORRECT SETTINGS. PROVIDE PASS & SEYMOUR RT24 (COLOR BY ARCHITECT) OR EQUAL.	48" AFF
	FLUSH FLOOR-BOX WITH OUTLETS; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE AND TELEPHONE/DATA OUTLET. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER). REFER TO DETAIL ON DRAWING E307.	FLOOR		DUAL TECHNOLOGY VACANCY SENSOR EQUAL TO LEVITON MODEL # OSC10-MWW/ OSC20-MWW. WIRE TO CONTROLLER PER MANUFACTURERS INSTRUCTIONS FOR MANUAL "ON" WITH WALL LOW VOLTAGE SWITCH AND AUTOMATIC "OFF" WITH SENSOR. SET DELAY TIMES FOR 15 MINUTES. SET SENSOR SO THAT ONLY ONE TECHNOLOGY IS NEEDED TO KEEP LIGHTS ON.	CEILING
	WALL OR COLUMN RECESSED JUNCTION BOX WITH POWER FURNITURE FEED (MINIMUM 1" CONDUIT). REFER TO DETAIL ON DRAWING E307.	18" A.F.F., (UON)		DUAL TECHNOLOGY OCCUPANCY SENSOR EQUAL TO LEVITON MODEL # OSC10-MWW/ OSC20-MWW. WIRE TO CONTROLLER PER MANUFACTURERS INSTRUCTIONS FOR MANUAL "ON" WITH WALL LOW VOLTAGE SWITCH AND AUTOMATIC "OFF" WITH SENSOR. SET DELAY TIMES FOR 15 MINUTES. SET SENSOR SO THAT ONLY ONE TECHNOLOGY IS NEEDED TO KEEP LIGHTS ON.	CEILING
	WALL OR COLUMN RECESSED JUNCTION BOX WITH COMMUNICATIONS FURNITURE FEED (MINIMUM 2" CONDUIT). REFER TO DETAIL ON DRAWING E307.	18" A.F.F., (UON)		DIMMING ROOM CONTROLLER EQUAL TO LEVITON MODEL # DRC07-ED0. WIRE PER MANUFACTURER'S INSTRUCTIONS.	ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL IN GYPSUM CEILINGS.
	RECESSED FLOOR-BOX POKE-THRU WITH POWER FURNITURE FEED (MINIMUM 1" CONDUIT). REFER TO DETAIL ON DRAWING E307.	FLOOR		DIMMING PHOTOCELL WITH ADJUSTABLE DAY-LIGHT SENSOR DOME EQUAL TO LEVITON MODEL # ODDCP-DOW. WIRE PER MANUFACTURER'S INSTRUCTIONS.	CEILING
	RECESSED FLOOR-BOX POKE-THRU WITH COMMUNICATIONS FURNITURE FEED (MINIMUM 2" CONDUIT). REFER TO DETAIL ON DRAWING E307.	FLOOR		PLUG-LOAD ROOM CONTROLLER RELAY EQUAL TO LEVITON MODEL # DRD07-ED0. WIRE PER MANUFACTURER'S INSTRUCTIONS.	ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL IN GYPSUM CEILINGS.
	COMBINATION TELEPHONE/DATA OUTLET; PROVIDE 3/4". (EMT) WITH PULL STRING FROM OUTLET TO ABOVE DROP CEILING. "C" INDICATES TO LOCATION ABOVE COUNTER BACKSPASH. "W" INDICATES WALL MOUNTED TELEPHONE MOUNTED PER ARCHITECT'S DIRECTION. EACH OUTLET SHALL BE PROVIDED WITH (3) CATEGORY 6 CABLES PER THE OWNER'S SPECIFICATIONS.	18" A.F.F., UON		LOW VOLTAGE DIMMING SWITCH (ZONE 1) EQUAL TO LEVITON MODEL # RDGSW-4CW; "a" INDICATES LIGHTING FIXTURES CONTROLLED. WIRE PER MANUFACTURER'S INSTRUCTIONS.	48" AFF
	TELEVISION OUTLET. E.C. SHALL PROVIDE RECESSED BACKBOX WITH 3/4" CONDUIT WITH PULL STRING BOX TO ABOVE DROP CEILING WITHIN THE BUILDING. PROVIDE BUSHED END CAPS TO ALL CONDUITS. SEE "TYPICAL ELECTRICAL NOTES", #16 ON THE SHEET.			LOW VOLTAGE DIMMING SWITCH (ZONE 1) EQUAL TO LEVITON MODEL # RDGSW-4CW; "b" INDICATES LIGHTING FIXTURES CONTROLLED. WIRE PER MANUFACTURER'S INSTRUCTIONS.	48" AFF
	SECURITY SYSTEM CARD ACCESS READER (BY OTHERS). E.C. SHALL PROVIDE RECESSED BACKBOX (HIRSCH MB3) PER SECURITY SYSTEM MANUFACTURER'S DIRECTION WITH 3/4" CONDUIT WITH PULL STRING FROM CARD ACCESS READER TO ABOVE DROP CEILING WITHIN THE BUILDING. LABEL CONDUIT ABOVE DROP CEILING WITH LOCATION OF CARD ACCESS READER. PROVIDE BUSHED END CAPS TO ALL CONDUITS.	48" AFF OR AFG		LOW VOLTAGE DIMMING SWITCH (ZONE 1) EQUAL TO LEVITON MODEL # RDGSW-4CW; "c" INDICATES LIGHTING FIXTURES CONTROLLED. WIRE PER MANUFACTURER'S INSTRUCTIONS.	48" AFF
	SURGE PROTECTION DEVICE. PROVIDE FOR EACH NEW PANELBOARD AS REQUIRED. CONNECTIONS SHALL BE PROVIDED PER THE MANUFACTURER'S INSTRUCTIONS & RECOMMENDATIONS. SEE DRAWING E105 FOR ADDITIONAL INFORMATION.			COMBINATION WALL DIMMER & VACANCY SENSOR EQUAL TO LUTRON MAESTRO #MS-Z101-V. WIRE PER MANUFACTURER'S INSTRUCTIONS.	48" AFF
	JUNCTION BOX; SIZE AS REQUIRED PER CODE. "WP" INDICATES LISTED AS WEATHER-PROOF, GASKETED JUNCTION BOX.	48" AFF OR AFG		EMERGENCY BURNER SWITCH, SLATER CAT. No. 730 BR WITH RED FACEPLATE MARKED "BURNER EMERGENCY SWITCH". PROVIDE A CLEAR PROTECTIVE COVER. REFER TO DETAIL.	72" AFF
	EMERGENCY CALL SYSTEM PULL CORD.			FIRE-O-MATIC SWITCH MOUNTED OVER BURNER. REFER TO DETAIL.	
	EMERGENCY CALL SYSTEM INDICATING HORN/STROBE. CONNECT 120VAC POWER UN-SWITCHED AND AHEAD OF ANY GFCI RECEPTACLES.	ABOVE DOOR			

ABBREVIATIONS

A	AMPERES	CLG	CEILING	G.C.	GENERAL CONTRACTOR	JB	JUNCTION BOX	MTD	MOUNTED	TYP	TYPICAL
ADA	AMERICANS WITH DISABILITIES ACT	DN	DOWN	GFCI	GROUND FAULT CIRCUIT INTERRUPTER.	KVA	KILOVOLT-AMPERES	NAC	F.A. NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANEL	UNON	UNLESS OTHERWISE NOTED
AMPS	AMPERES	DWG	DRAWING	G	GROUND	KW	KILOWATT	NEC	NATIONAL ELECTRICAL CODE	V	VOLTS
AFF	ABOVE FINISHED FLOOR	E.C.	ELECTRICAL CONTRACTOR	GND	GROUND	LTG	LIGHTING	NTS	NOT TO SCALE	W	WATTS
A/C	AIR CONDITIONING	EQ	EQUAL	HVAC	HEATING, VENTILATING, & AIR CONDITIONING	MAX	MAXIMUM	P	POLE	WP	WEATHER-PROOF
AWG	AMERICAN WIRE GAGE	F.A	FIRE ALARM	I.T.	INFORMATION TECHNOLOGY	M.C.	MECHANICAL CONTRACTOR	P.C.	PLUMBING CONTRACTOR	⊕	CENTERLINE
C	CONDUIT	FACP	FIRE ALARM CONTROL PANEL			MECH	MECHANICAL	PNL	PANEL		
C/B	CIRCUIT BREAKER	FLR	FLOOR			MIN	MINIMUM				

TYPICAL ELECTRICAL NOTES

- FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE PROPER AND COMPLETE INSTALLATION OF ALL ELECTRIC WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
- ALL ITEMS NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE ELECTRICAL INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT.
- ALL ELECTRICAL INSTALLATIONS AND GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE LOCAL, STATE AND NATIONAL CODES.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- MATERIALS AND WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KIND AND IN FULL ACCORDANCE WITH THE MOST MODERN ELECTRICAL CONSTRUCTION STANDARDS. ALL MATERIAL SHALL BE NEW, UNLESS OTHERWISE NOTED AND FREE OF ANY DEFECTS.
- THE ELECTRICAL CONTRACTOR SHALL CLEAN AT THE END OF EACH DAY ALL AREAS WORKED IN. EMPTY BOXES, RUBBISH, AND OTHER CONSTRUCTION MATERIALS OF NO USE SHALL BE REMOVED FROM THE BUILDING.
- ALL WORK SEQUENCES SHALL BE COORDINATED WITH THE G.C. AND SHALL BE COORDINATION WITH OTHER BUILDING TRADES AND G.C. BUILDING SCHEDULES.
- ALL BRANCH CIRCUITS RATED AT 120 VOLTS, 20 AMPERES EXCEEDING 75 FEET SHALL BE MINIMUM #10 AWG.
- THE ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE WITH THE LOCAL UTILITY POWER COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY WITH THE UTILITY POWER COMPANY'S REQUIREMENTS AND STANDARDS, PRIOR TO ORDERING ANY ELECTRICAL EQUIPMENT, SUCH AS, SWITCHGEAR, PANELS, TRANSFORMERS, DISCONNECT SWITCHES, ETC... E.C. SHALL CONFIRM METERING SEQUENCE (HOT OR COLD) AND MAKE THE APPROPRIATE PROVISIONS FOR THE APPROVED METERING SEQUENCE ARRANGEMENT. A.I.C. RATINGS, GROUNDING, BONDING, RACEWAYS, ETC... SHALL BE IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS.
- THE ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE WITH THE LOCAL TELEPHONE COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY WITH THE TELEPHONE COMPANY'S REQUIREMENTS AND STANDARDS, PRIOR TO ORDERING ANY ELECTRICAL EQUIPMENT, SUCH AS, TERMINAL BOARDS, GROUNDING, RACEWAYS, ETC...
- ALL RECEPTACLE WITH "WP" DESIGNATION SHALL BE PROVIDED WITH A WEATHER-PROOF WHILE IN-USE ENCLOSURE. (TYPICAL)
- ELECTRICAL CONTRACTOR TO ALLOW TIME FOR DIRECTIONAL ADJUSTMENT OF ALL LIGHT FIXTURES AS DIRECTED BY OWNER.
- ALL RECEPTACLES SHALL BE LABELED INDICATING THEIR RESPECTIVE PANEL & CIRCUIT NUMBER.
- ALL PENETRATIONS FOR POWER RECEPTACLES, JUNCTION BOXES, TELEPHONE/DATA OUTLETS, SWITCHES, BACKBOXES, ETC... LOCATED IN EXTERIOR WALLS SHALL BE PROVIDED WITH APPROPRIATE CAULKING AND GASKETS TO SEAL OFF AND PREVENT AIR LEAKAGE. FOLLOW CAULKING AND GASKET MANUFACTURERS INSTALLATION GUIDELINES TO ENSURE CORRECT AND EFFECTIVE INSTALLATION.
- WHERE "TV" POWER RECEPTACLES AND TELEVISION LOW VOLTAGE OUTLETS ARE SHOWN ON THE PLANS THEY SHALL BE INSTALLED USING A LOW-VOLTAGE RECESSED MEDIA PLATE WITH DUPLEX RECEPTACLE EQUAL TO COMMERCIAL ELECTRIC #5310-WH. PROVIDE POWER RECEPTACLE BACK-BOX AS REQUIRED. (TYPICAL)

TELEPHONE & DATA RACEWAY NOTES

- NO SECTION OF CONDUIT SHALL BE LONGER THAN 100-FEET BETWEEN PULL POINTS.
- NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS (e.g. OUTLET BOXES, TELECOMMUNICATIONS CLOSETS, OR PULL BOXES). IF THERE IS A REVERSE (U-SHAPED) BEND IN THE SECTION, A PULL BOX SHALL BE INSTALLED.
- THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING CABLE PULLING OPERATIONS.
- ANY SINGLE CONDUIT RUN EXTENDING FROM A TELECOMMUNICATIONS CLOSET SHALL NOT SERVE MORE THAN THREE OUTLET BOXES.
- CONDUITS PROTRUDING / PENETRATING THROUGH THE FLOOR IN THE TELECOMMUNICATIONS CLOSETS SHALL BE TERMINATED 3-INCHES ABOVE THE FLOOR ADJACENT WALLS. PROTRUSIONS / PENETRATIONS SHALL BE LOCATED TO AVOID CREATING A TRIPPING HAZARD WITHIN THE CLOSETS. FIRESTOP ALL PROTRUSIONS / PENETRATIONS.
- A MINIMUM 3/4-INCH CONDUIT SHALL BE PROVIDED FROM THE TELECOMMUNICATIONS CLOSET TO SERVE EACH WALL-MOUNTED PUBLIC TELEPHONE. IN DISCUSSION WITH THE TELEPHONE PROVIDER, AND WHERE IT IS DESIRABLE TO CONCEAL, THE OUTLET BOX DIRECTLY BEHIND THE TELEPHONE. THE CENTER OF THE OUTLET BOX SHALL BE LOCATED 48-INCHES ABOVE THE FINISHED FLOOR. FOR RECESSED APPLICATIONS, THE CONDUIT AND BOX SHALL BE INSTALLED TO SUIT THE SPECIFIC TYPE OF MOUNTING. REFER TO APPLICABLE CODES, ADA GUIDELINES, UNIFORM FEDERAL ACCESSIBILITY STANDARDS, MANUFACTURER'S SPECIFICATIONS AND ANSI STANDARDS FOR ADDITIONAL REQUIREMENTS.
- WHERE A TELECOMMUNICATIONS CONDUIT IS TO BE INSTALLED TO A DEVICE EXPOSED TO THE WEATHER, CARE SHALL BE TAKEN TO PREVENT THE INGRESS OF MOISTURE. CARE SHALL ALSO BE TAKEN TO ENSURE THAT MOISTURE WILL NOT COLLECT IN LOW POINTS, FREEZE AND DAMAGE THE CABLE. NONMETALLIC CONDUIT SHALL BE UV RESISTANT AND MARKED ACCORDINGLY.
- CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUIT SHALL BE TERMINATED WITH AN INSULATED BUSHING.
- REFER TO ANS/IT/EIA-606 FOR ADMINISTRATION OF THE CONDUIT SYSTEM IDENTIFICATION.
- ALL CONDUITS SHALL BE PROVIDED WITH PULL STRINGS.
- OUTLET BOXES SHALL BE NO SMALLER THAN 2-INCHES WIDE, 3-INCHES HIGH AND 2.5-INCHES DEEP. THIS WILL ACCOMMODATE ONE OR TWO 3/4-INCH CONDUITS, WHERE A LARGER CONDUIT IS REQUIRED, THE BOX SHALL BE INCREASED ACCORDINGLY. A MAXIMUM 1-1/4-INCH CONDUIT WILL REQUIRE A 4-11/16-INCH x 4-11/16-INCH x 2-1/2-INCH BOX.
- CONDUIT TYPES SHALL BE ELECTRICAL METALLIC TUBING (EMT) OR RIGID METAL CONDUIT. LOCATIONS SUBJECT TO MOISTURE SHALL BE RIGID PVC. FLEXIBLE CONDUIT SHALL NOT BE USED FOR TELE/DATA RACEWAYS.
- CONDUIT REQUIREMENTS FOR SUPPORT, END PROTECTION AND CONTINUITY SHALL COMPLY WITH APPROPRIATE ELECTRICAL CODES.
- CONDUIT AND BOXES FOR TELE/DATA WIRING SHALL BE DEDICATED TO THOSE SYSTEMS. POWER WIRING SHALL BE KEPT OUT OF CONDUIT AND BOXES DEDICATED TO TELE/DATA WIRING.
- CONDUIT SIZE FOR MAXIMUM NUMBER OF CABLES (SEE TABLE BELOW):

Conduit Trade Size	Maximum number of cables based upon allowable fill												
	Cable Outside Diameter in Inches												
	0.13	0.18	0.22	0.24	0.29	0.31	0.37	0.53	0.62	0.70			
1/2"	1	1	0	0	0	0	0	0	0	0	0	0	0
3/4"	6	5	4	3	2	2	2	1	0	0	0	0	0
1"	8	8	7	6	3	3	2	1	0	0	0	0	0
1-1/4"	16	14	12	10	6	4	3	2	1	1	1	1	1
1-1/2"	20	18	16	15	7	6	4	2	1	1	1	1	1
2"	30	28	22	20	14	12	7	4	3	2	2	2	2
2-1/2"	45	40	36	30	17	14	12	6	3	3	3	3	3
3"	70	60	50	40	20	20	17	7	6	6	6	6	6
3-1/2"	-	-	-	-	-	-	22	12	7	6	6	6	6
4"	-	-	-	-	-	-	30	14	12	7	7	7	7

RECEPTACLE BRANCH CIRCUIT WIRING SCHEDULE

CONDUCTOR AWG.	MAXIMUM CONDUCTOR LENGTH AT 120V	GROUND CONDUCTOR AWG.
#12	100'-0"	#12
#10	165'-0"	#10
#8	255'-0"	#10
#6	405'-0"	#10

RECEPTACLE BRANCH CIRCUIT WIRING SCHEDULE NOTES:

- BASED ON 20A CIRCUIT LOADED TO 9A USING SINGLE PHASE, 2 WIRE CIRCUITS.
- THE ABOVE SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED FROM PANEL TO CENTER OF LEAD TO OVERCOME VOLTAGE DROP.
- MAKE PROVISIONS FOR JUNCTION BOX ADJACENT TO OUTLET TO TRANSITION TO #12 WIRE FOR FINAL TERMINATIONS TO DEVICE AS REQUIRED.

LUMINAIRE BRANCH CIRCUIT WIRING SCHEDULE

CONDUCTOR AWG.	MAXIMUM CONDUCTOR LENGTH AT 120V	MAXIMUM CONDUCTOR LENGTH AT 277V	GROUND CONDUCTOR AWG.
#12	75'-0"	175'-0"	#12
#10	120'-0"	285'-0"	#10
#8	190'-0"	445'-0"	#10
#6	300'-0"	-	#10

LUMINAIRE BRANCH CIRCUIT WIRING SCHEDULE NOTES:

- BASED ON 20A CIRCUIT LOADED TO 12A USING SINGLE PHASE, 2 WIRE CIRCUITS.
- THE ABOVE SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED FROM PANEL TO CENTER OF LEAD TO OVERCOME VOLTAGE DROP.
- MAKE PROVISIONS FOR JUNCTION BOX ADJACENT TO OUTLET TO TRANSITION TO #12 WIRE FOR FINAL TERMINATIONS TO DEVICE AS REQUIRED.

ADDITIONAL SCOPE OF WORK

REFER TO INFORMATION TECHNOLOGY (IT) AND SECURITY DRAWINGS AND/OR COORDINATE WITH OWNER'S VENDOR FOR ADDITIONAL SCOPE OF WORK INCLUDING CONDUITS AND PATHWAYS, CABLE-TRAY, BACK-BOXES, CABLING AND GROUNDING REQUIREMENTS TO BE PROVIDED BY THIS CONTRACTOR AS PART OF THE ELECTRICAL SCOPE OF WORK.

RETURN AIR PLENUM NOTE

ALL CABLES AND WIRING INSTALLED ABOVE RETURN AIR PLENUM CEILING SHALL BE UL LISTED AND APPROVED FOR USE IN RETURN AIR PLENUM SPACES PER CODE. VERIFY EXACT LOCATIONS WITH OWNER, G.C. AND M.C. PRIOR TO BID. (TYPICAL)



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Revision Schedule

Revision Number	Revision Date

Issued for Bid
05/01/2024

SHEET TITLE

ELECTRICAL LEGENDS & NOTES

DRAWN BY: SPC JOB NUMBER: 18050

CHECKED BY: RWD DATE: 04/18/2024

E0.0

SHEET: OF:

BRANCH CIRCUIT PANELBOARD SCHEDULE

DESIGNATION	BUS AMPS	MAIN	LOCATION	VOLTAGE	PH	BREAKERS						TOTAL POLES	MOUNTING	REMARKS
						USED			SPARE					
						1-POLE	2-POLE	3-POLE	1-POLE	2-POLE	3-POLE			
P-1A	400/3	400/3	SEE FLR PLANS	208Y/120	3	(4) 15A, (42) 20A	(5) 15A	(1) 25A, (1) 225A	(5) 20A	-	-	72	SURFACE	SINGLE-TUB, 100,000 A.I.C. PROVIDE WITH SURGE PROTECTION DEVICE. (SEE SPD NOTES ON THIS DRAWING).
P-2A	225/3	225/3	SEE FLR PLANS	208Y/120	3	(1) 15A, (36) 20A	(7) 15A	-	(5) 20A	-	-	72	SURFACE	SINGLE-TUB, 100,000 A.I.C. PROVIDE WITH SURGE PROTECTION DEVICE. (SEE SPD NOTES ON THIS DRAWING).
P-1C	400/3	400/3	SEE FLR PLANS	208Y/120	3	(2) 15A, (46) 20A	(11) 15A	(1) 45A, (1) 60A	(5) 20A	-	-	84	SURFACE	SERVICE ENTRANCE RATED & DOUBLE-TUB, 100,000 A.I.C. PROVIDE WITH SURGE PROTECTION DEVICE. (SEE SPD NOTES ON THIS DRAWING).

- NOTES:**
- ALL PANELBOARDS SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE ON THE DOOR INDICATING THE PANELBOARD DESIGNATION, VOLTAGE, RATING OF MCB OR MAIN LUGS AND SOURCE OF SUPPLY. ENGRAVED PLATE SHALL BE AS CALLED FOR IN THE SPECIFICATIONS.
 - ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPED (HAND WRITTEN IS NOT ALLOWED) CIRCUIT DIRECTORY INDICATING THE LOAD FED BY EACH CIRCUIT BREAKER AND ITS LOCATION IN THE BUILDING.
 - ALL PANELBOARDS SHALL BE PROVIDED WITH FULL SIZE EQUIPMENT GROUND AND NEUTRAL BUSSES ON EACH SIDE OF THE ENCLOSURE SO AS TO PROVIDE A SEPARATE EQUIPMENT GROUND AND NEUTRAL TERMINAL FOR EACH BRANCH CIRCUIT.
 - SPACES SHALL BE PROVIDED WITH ALL REQUIRED BUSSING, SUPPORTS, CONNECTORS, ETC. NECESSARY FOR FUTURE INSTALLATION OF CIRCUIT BREAKERS.
 - FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FIVE (5) EMPTY 1" EMT CONDUITS INSTALLED UP TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.
 - ALL PANELBOARDS SHALL HAVE HINGED "DOOR-IN-DOOR" TYPE COVERS.
 - REFER TO THE SPECIFICATIONS FOR ALL OTHER PANELBOARD REQUIREMENTS. SERIES RATED AND ALUMINUM ARE NOT ALLOWED.
 - PROVIDE NEW CIRCUIT BREAKERS IN EXISTING PANELS TO BE RE-USED FOR NEW LOADS AS REQUIRED. PROVIDE BLANK PLATES IN ALL UN-USED SPACES. UPDATE AND/OR PROVIDE NEW CIRCUIT BREAKER DIRECTORIES FOR ALL PANELBOARDS.
 - ALL PANELBOARDS AND CIRCUIT BREAKERS SHALL BE FULLY RATED. SERIES RATED EQUIPMENT SHALL NOT BE USED.

DRY-TYPE TRANSFORMER SCHEDULE

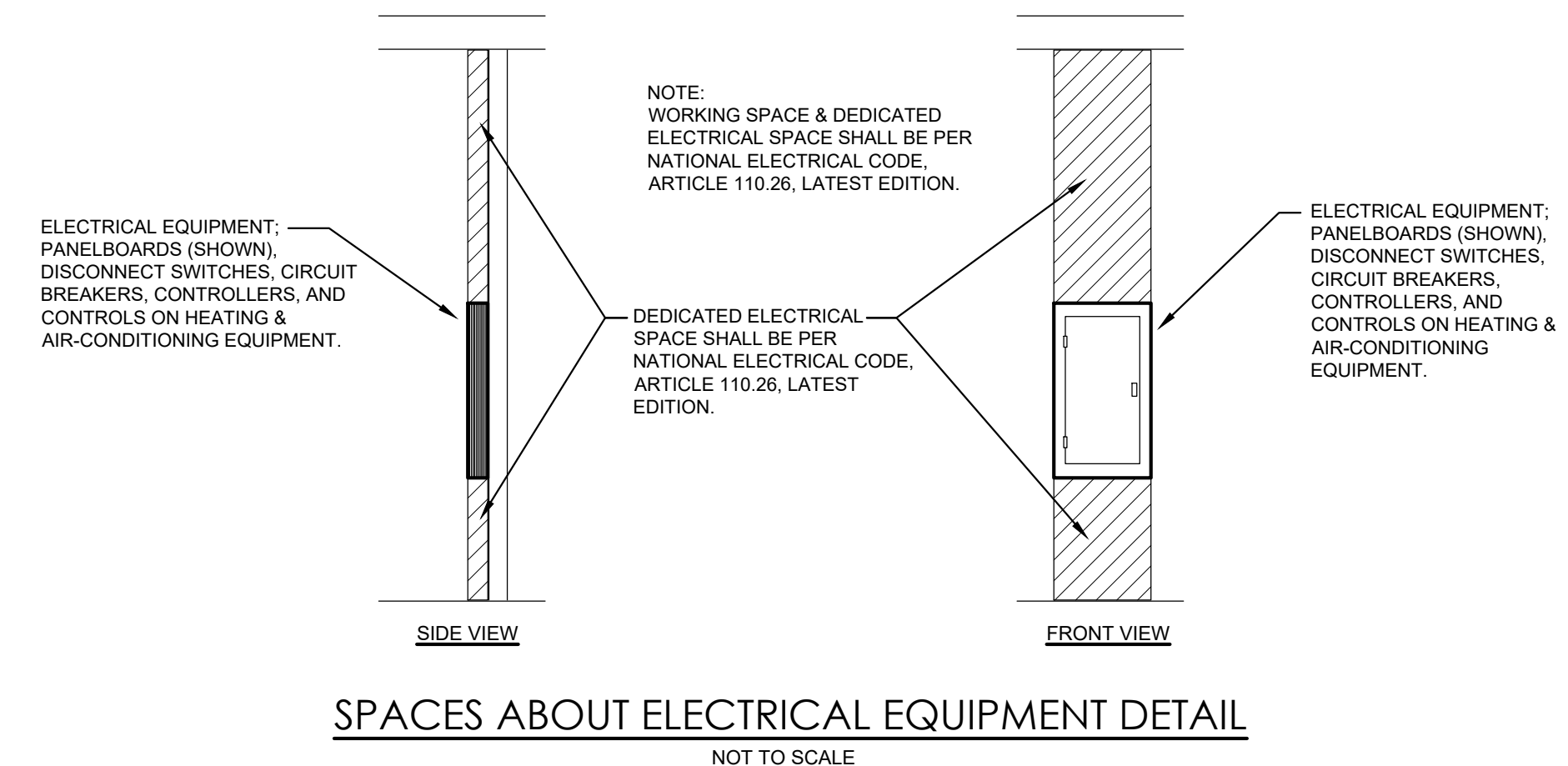
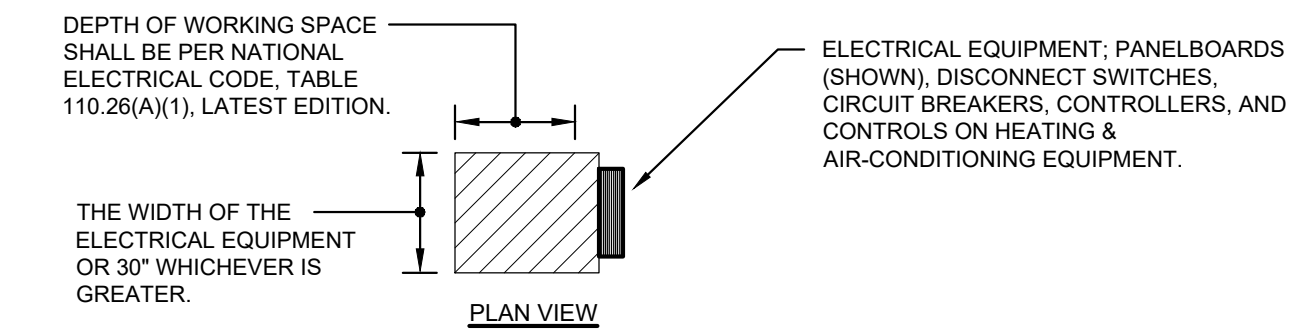
DESIGNATION	KVA	VOLTS	PRIMARY			SECONDARY			REMARKS	
			PROTECTIVE DEVICE LOCATION	PROTECTIVE DEVICE SIZE	FEEDER	PROTECTIVE DEVICE LOCATION	PROTECTIVE DEVICE SIZE	FEEDER		
										FEEDER
T-1	75	208	PANEL "MDP"	225A/3P	4#4/0 + 1#3G IN 2-1/2" C.	208Y/120	FUSED DISC. SW.	225A/3P	3#300kcmil + 1#2/0G IN 3" C.	ISOLATION TRANSFORMER

- NOTES:**
- ALL TRANSFORMERS SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE ON THE FRONT OF THE TRANSFORMER INDICATING ITS DESIGNATION. ENGRAVED PLATE SHALL BE AS CALLED FOR IN THE SPECIFICATIONS.
 - ALL TRANSFORMERS PRIMARY AND SECONDARY CONNECTIONS SHALL BE MADE WITH A MINIMUM OF 18" OF FLEXIBLE METAL CONDUIT.
 - ALL TRANSFORMERS SHALL MEET EPA 2016 EFFICIENCY REQUIREMENTS, NEMA-TP1 RATED AND ENERGY STAR LABELED.
 - ALL TRANSFORMER WINDINGS SHALL BE COPPER.

MAIN DISTRIBUTION PANELBOARD SCHEDULE "MDP-ED"

DESIGNATION	BREAKERS			FEEDER	SERVICES	REMARKS
	FRAME	TRIP	POLE			
①	1600A/3P	1600A	3	(8) SETS OF: 4#600kcmil + 1#1/0G IN 4" C.	MAIN CIRCUIT BREAKER	-
②	400A/3P	400A	3	4#600kcmil + 1#1/0G IN 4" C.	PANEL "P-1A"	-
③	250A/3P	225A	3	-	SPACE	PROVISIONS ONLY
④	250A/3P	225A	3	3#250kcmil + 1#4G IN 3" C.	ERU-1	-
⑤	100A/3P	90A	3	(SEE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ON DRAWING E0.5)	HPU-100 CKT #1	-
⑥	100A/3P	90A	3	(SEE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ON DRAWING E0.5)	HPU-100 CKT #2	-
⑦	100A/3P	30A	2	2#8 + 1#8G IN 1" C.	WATER HEATER #1	-
⑧	100A/3P	30A	2	2#8 + 1#8G IN 1" C.	WATER HEATER #2	-
⑨	225A/3P	200A	3	3#300kcmil + 1#2/0G IN 3" C.	ELEVATOR	-
⑩	400A/3P	400A	3	(SEE ONE-LINE DIAGRAM)	PANEL "P-1C"	SERVES ANIMAL BUILDING
⑪	100A/3P	100A	3	(SEE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ON DRAWING E0.5)	HPU-200	-
⑫	100A/3P	100A	3	-	SPACE	PROVISIONS ONLY
⑬	100A/3P	N/A	3	-	SPACE	PROVISIONS ONLY

TYPICAL NOTE:
ALL NEW ELECTRICAL EQUIPMENT BUSSING, FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER. (TYP.)



SURGE PROTECTION DEVICE NOTES:

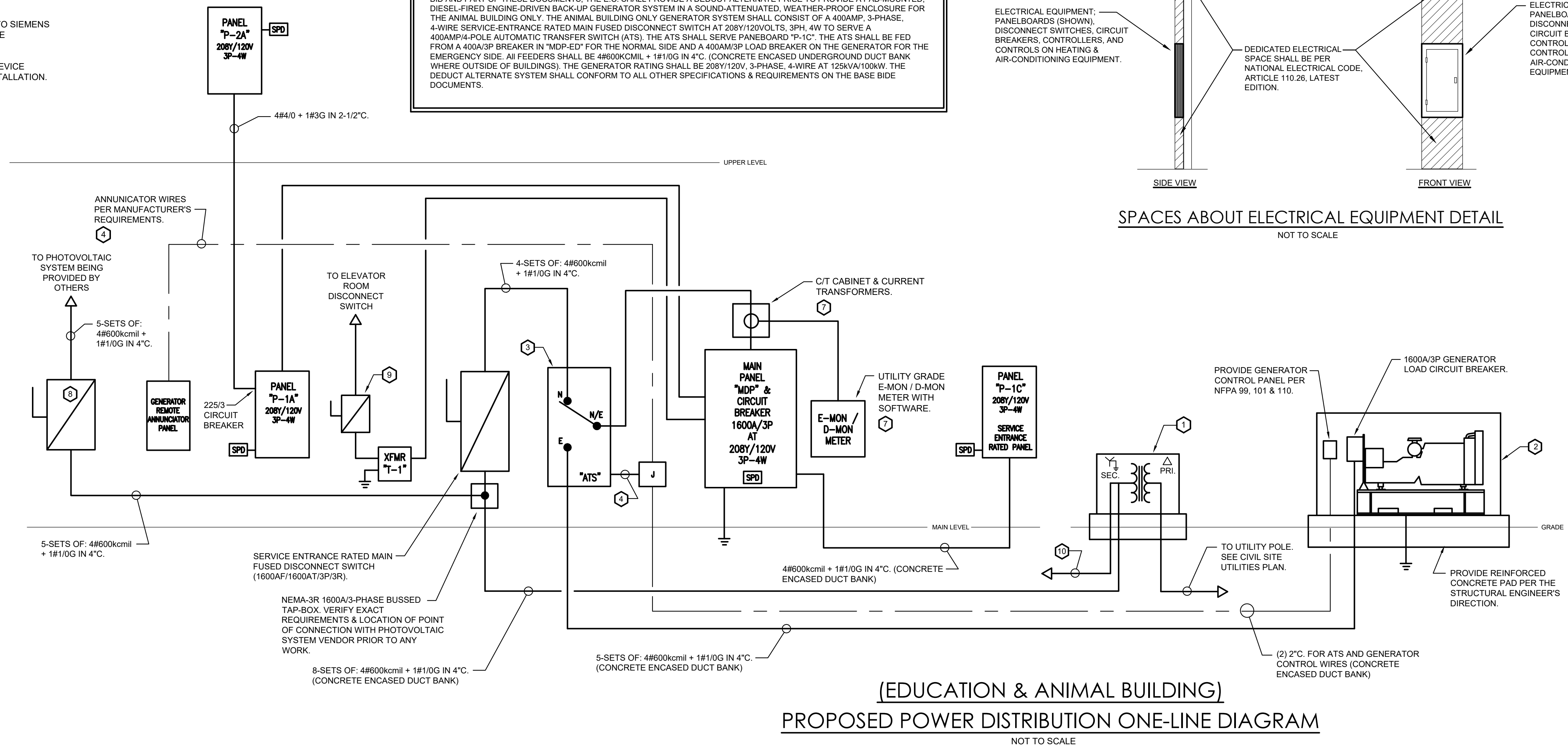
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE SURGE PROTECTION DEVICES FOR ALL PANELBOARDS FOR THIS PROJECT.
- PANELBOARDS SHALL BE PROVIDED WITH SURGE PROTECTION DEVICES EQUAL TO SIEMENS SURGE PROTECTIVE DEVICE MODEL #TP53 11-15 FOR 208Y/120VOLT, 3-PHASE 4-WIRE INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SURGE PROTECTIVE DEVICE MANUFACTURER FOR INSTALLATION & CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.

POWER ONE-LINE NOTES:

- NEW PADMOUNT TRANSFORMER NOTES:
 - TRANSFORMER FURNISHED AND INSTALLED BY OWNER.
 - PRIMARY CONDUIT WITH PULL WIRE BY E.C.
 - PRIMARY CABLE AND CONNECTIONS BY OWNER.
 - SECONDARY CABLE & CONNECTIONS AT TRANSFORMER BY E.C. WITH OWNER SUPERVISION.
 - TRANSFORMER CONCRETE PAD BY OWNER.
 - TRANSFORMER PAD GROUNDING BY OWNER.
 - E.C. SHALL PROVIDE ALL LABOR & MATERIAL REQUIRED FOR SECONDARY SIDE OF TRANSFORMER.
- DIESEL-FIRED, ENGINE DRIVEN (450KVA / 360kW) EMERGENCY GENERATOR (AS MANUFACTURED BY CATERPILLAR) IN MANUFACTURERS LEVEL 2 SOUND ATTENUATED WEATHERPROOF ENCLOSURE WITH A DBA RATING OF 75 AT 23'-0". PROVIDE REMOTE GENERATOR ANNUNCIATOR PANEL AT LOCATION DETERMINED BY THE FIRE DEPARTMENT & OWNER. PROVIDE GROUNDING AS REQUIRED PER NEC. THE EXACT LOCATION SHALL BE COORDINATED WITH THE BUILDING OWNER. THE DRAWINGS ARE BASED ON A CATERPILLAR 100 KW AT 60HZ, C4-4 ACERT, DIESEL-FIRED, ENGINE DRIVEN GENERATOR SET. UNIT SHALL BE TESTED TO MAXIMUM LOAD BEFORE DELIVERY TO THE SITE IN AN ISO 9001 CERTIFIED FACILITY. UNIT SHALL HAVE A FUEL EFFICIENCY, DESIGNED TO MEET EPA STATIONARY EMERGENCY (TIER 3) EMISSIONS STANDARDS. SEISMIC CERTIFICATION SHALL BE REQUIRED. PROVIDE WITH EMCP 4.2 CONTROL PANEL, WITH A USER-FRIENDLY INTERFACE.
- 1600A/3P AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE PANEL "MDP-ED" SHALL BE EQUAL TO ASCO SERIES 300 SE #1600-3-400-C-1-C-11BG. PROVIDE GROUNDING AS REQUIRED PER NEC. PROVIDE ATS WITH CONTACTS FOR INTERFACE WITH ELEVATOR CONTROLLER. VERIFY EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER PRIOR TO ORDERING ATS.
- PROVIDE (2) 1-1/2" RIGID METAL CONDUITS FOR CONTROL WIRING BETWEEN THE J-BOX, AUTOMATIC TRANSFER SWITCH AND GENERATOR REMOTE ANNUNCIATOR PANEL.
- REFER TO FLOOR PLANS FOR LOCATIONS OF ALL ELECTRICAL EQUIPMENT.
- ALL FREESTANDING ELECTRICAL SWITCHBOARDS, ATS AND TRANSFORMERS SHALL BE PROVIDED WITH A 4" HIGH CONCRETE HOUSING KEEPING PAD. (TYPICAL)
- PROVIDE E-MON / D-MON SUB-METERING CLASS 2000 COMPLETE WITH "RIGHTENERGY" SOFTWARE, SPLIT-CORE SENSORS, DEMAND OPTION, 3-PHASE, 4-WIRE CONFIGURATION, STEEL ENCLOSURE WITH PAD-LOCK & MOUNTING FLANGES, LOW VOLTAGE WIRING & CONNECTIONS AND ALL REQUIRED COMPONENTS PER THE MANUFACTURER'S INSTRUCTIONS. THE E-MON / D-MON SYSTEM SHALL BE PROVIDED FOR "MDP-PAV".
- PROVIDE SERVICE ENTRANCE RATED FUSED DISCONNECT SWITCH (2500AF/2000AT/3P/NEMA-3R) FOR PHOTOVOLTAIC SYSTEM. VERIFY EXACT RATING SIZE REQUIRED AND LOCATION WITH PHOTOVOLTAIC SYSTEM VENDOR PRIOR TO BID.
- PROVIDE FUSED DISCONNECT SWITCH 400AF/225AT/3P/NEMA-1 FOR SECONDARY SIDE OF TRANSFORMER "T-1". VERIFY EXACT SIZE REQUIRED WITH ELEVATOR MANUFACTURER PRIOR TO ANY WORK.
- SECONDARY FEEDER TO PAVILION BUILDING.

DEDUCT ALTERNATE NOTE:

IN LIEU OF A FULL BACK-UP GENERATOR SYSTEM FOR THE EDUCATION AND ANIMAL BUILDINGS AS DESIGNED AS THE BASE BID AND PART OF THESE DOCUMENTS, THE E.C. SHALL PROVIDE A DEDUCT ALTERNATE PRICE TO PROVIDE A PAD-MOUNTED, DIESEL-FIRED ENGINE-DRIVEN BACK-UP GENERATOR SYSTEM IN A SOUND-ATTENUATED, WEATHER-PROOF ENCLOSURE FOR THE ANIMAL BUILDING ONLY. THE ANIMAL BUILDING ONLY GENERATOR SYSTEM SHALL CONSIST OF: A 400AMP, 3-PHASE, 4-WIRE SERVICE-ENTRANCE RATED MAIN FUSED DISCONNECT SWITCH AT 208Y/120VOLTS, 3PH, 4W TO SERVE A 400AMP/4-POLE AUTOMATIC TRANSFER SWITCH (ATS). THE ATS SHALL SERVE PANELBOARD "P-1C". THE ATS SHALL BE FED FROM A 400A/3P BREAKER IN "MDP-ED" FOR THE NORMAL SIDE AND A 400AMP LOAD BREAKER ON THE GENERATOR FOR THE EMERGENCY SIDE. ALL FEEDERS SHALL BE 4#600KCMIL + 1#1/0G IN 4" C. (CONCRETE ENCASED UNDERGROUND DUCT BANK WHERE OUTSIDE OF BUILDINGS). THE GENERATOR RATING SHALL BE 208Y/120V, 3-PHASE, 4-WIRE AT 125KVA/100KW. THE DEDUCT ALTERNATE SYSTEM SHALL CONFORM TO ALL OTHER SPECIFICATIONS & REQUIREMENTS ON THE BASE BIDE DOCUMENTS.



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Revision Schedule	
Revision Number	Revision Date

Issued for Bid
05/01/2024

SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES

DRAWN BY: SPC JOB NUMBER: 18050
CHECKED BY: RWD DATE: 04/18/2024

E0.1

SHEET: OF:

BRANCH CIRCUIT PANELBOARD SCHEDULE														
DESIGNATION	BUS AMPS	MAIN	LOCATION	VOLTAGE	PH	BREAKERS						TOTAL POLES	MOUNTING	REMARKS
						USED			SPARE					
						1-POLE	2-POLE	3-POLE	1-POLE	2-POLE	3-POLE			
PAV-1	250/3	250/3	SEE FLR. PLANS	208Y/120	3	(10) 15A, (32) 20A	-	(2) 50A, (1) 60A	(5) 20A	-	-	72	SURFACE	SINGLE-TUB. 65,000 A.I.C. PROVIDE WITH SURGE PROTECTION DEVICE. (SEE SPD NOTES ON THIS DRAWING).
PAV-2	400/3	400/3	SEE FLR. PLANS	208Y/120	3	(4) 15A	-	(2) 15A, (2) 30A, (1) 70A, (2) 90A	(5) 20A	-	-	42	SURFACE	SINGLE-TUB. 65,000 A.I.C. PROVIDE WITH SURGE PROTECTION DEVICE. (SEE SPD NOTES ON THIS DRAWING).

NOTES:

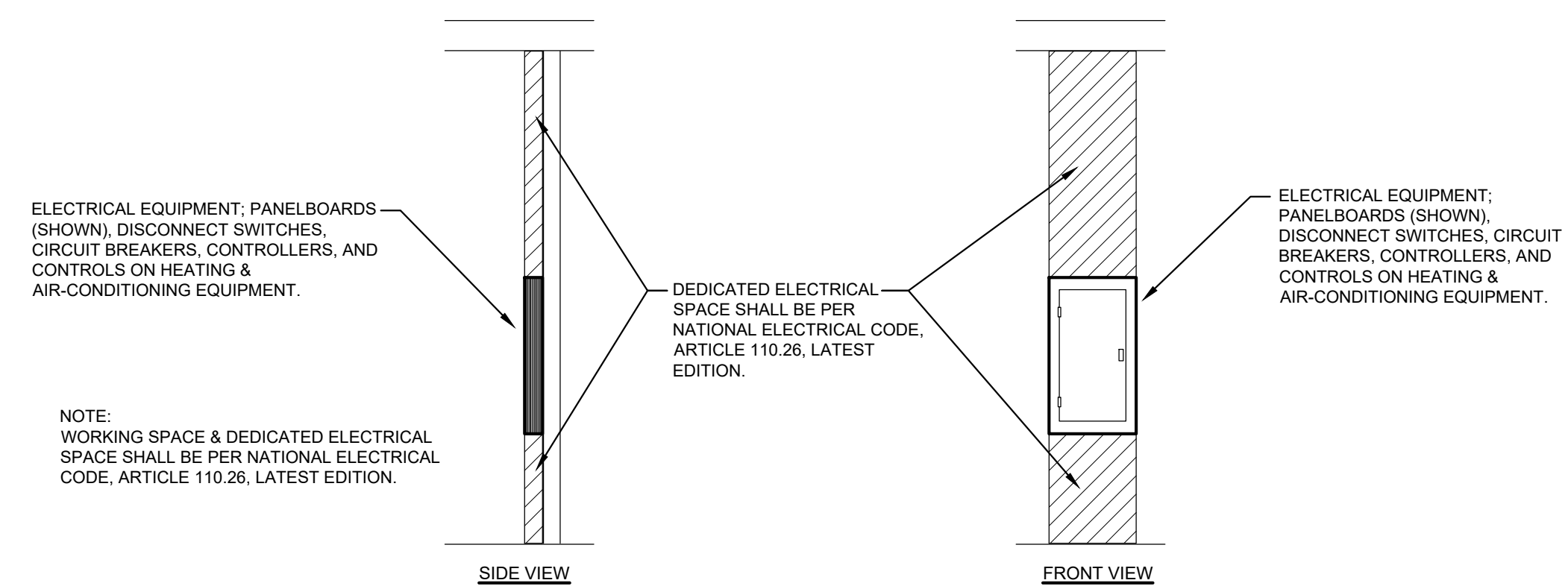
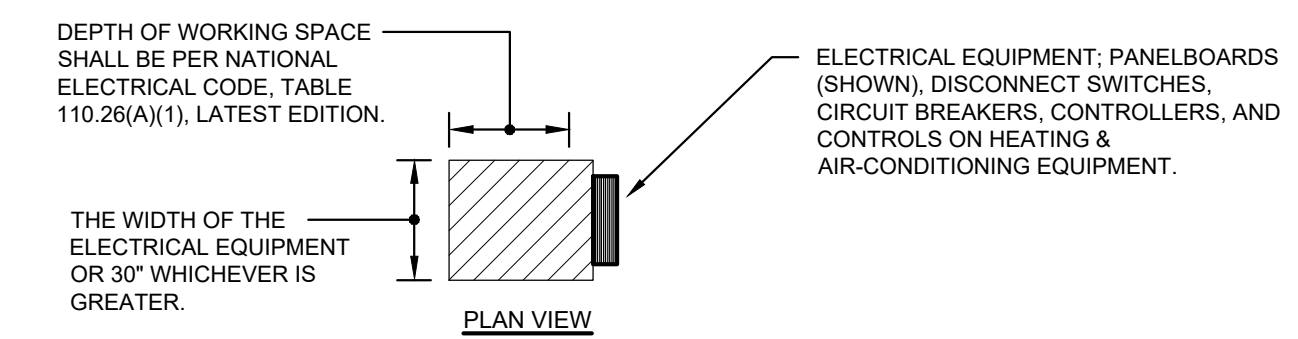
- ALL PANELBOARDS SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE ON THE DOOR INDICATING THE PANELBOARD DESIGNATION, VOLTAGE, RATING OF MCB OR MAIN LUGS AND SOURCE OF SUPPLY. ENGRAVED PLATE SHALL BE AS CALLED FOR IN THE SPECIFICATIONS.
- ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPED (HAND WRITTEN IS NOT ALLOWED) CIRCUIT DIRECTORY INDICATING THE LOAD FED BY EACH CIRCUIT BREAKER AND ITS LOCATION IN THE BUILDING.
- ALL PANELBOARDS SHALL BE PROVIDED WITH FULL SIZE EQUIPMENT GROUND AND NEUTRAL BUSES ON EACH SIDE OF THE ENCLOSURE SO AS TO PROVIDE A SEPARATE EQUIPMENT GROUND AND NEUTRAL TERMINAL FOR EACH BRANCH CIRCUIT.
- SPACES SHALL BE PROVIDED WITH ALL REQUIRED BUSSING, SUPPORTS, CONNECTORS, ETC., NECESSARY FOR FUTURE INSTALLATION OF CIRCUIT BREAKERS.
- FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FIVE (5) EMPTY 1" EMT CONDUITS INSTALLED UP TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.
- ALL PANELBOARDS SHALL HAVE HINGED "DOOR-IN-DOOR" TYPE COVERS.
- REFER TO THE SPECIFICATIONS FOR ALL OTHER PANELBOARD REQUIREMENTS. SERIES RATED AND ALUMINUM ARE NOT ALLOWED.
- PROVIDE NEW CIRCUIT BREAKERS IN EXISTING PANELS TO BE RE-USED FOR NEW LOADS AS REQUIRED. PROVIDE BLANK PLATES IN ALL UN-USED SPACES. UPDATE AND/OR PROVIDE NEW CIRCUIT BREAKER DIRECTORIES FOR ALL PANELBOARDS.
- ALL PANELBOARDS AND CIRCUIT BREAKERS SHALL BE FULLY RATED. SERIES RATED EQUIPMENT SHALL NOT BE USED.

MAIN DISTRIBUTION PANELBOARD SCHEDULE "MDP-PAV"						
FEEDER: (2) SETS OF: 4#600kcmil + 1#1/0G IN (2) 4" C.		BUS AMPERAGE: 600A/3P		VOLTAGE: 208Y/120, 3-PHASE, 4-WIRE		A.I.C. RATING: 65,000
DESIGNATION	BREAKERS			FEEDER	SERVICES	REMARKS
	FRAME	TRIP	POLE			
①	800A/3P	800A	3	(2) SETS OF: 4#600kcmil + 1#1/0G IN (2) 4" C.	MAIN CIRCUIT BREAKER	-
②	250A/3P	250A	3	4#250kcmil + 1#4G IN 3" C.	PANEL "PAV-1"	-
③	400A/3P	400A	3	4#600kcmil + 1#1/0G IN 4" C.	PANEL "PAV-2"	-
④	200A/3P	200A	3	-	SPARE	-
⑤	100A/3P	N/A	3	-	SPACE	PROVISIONS ONLY
⑥	100A/3P	N/A	3	-	SPACE	PROVISIONS ONLY
⑦	100A/3P	N/A	3	-	SPACE	PROVISIONS ONLY
⑧	100A/3P	N/A	3	-	SPACE	PROVISIONS ONLY

TYPICAL NOTE:
ALL NEW ELECTRICAL EQUIPMENT BUSSING, FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER. (TYP.)

SURGE PROTECTION DEVICE NOTES:

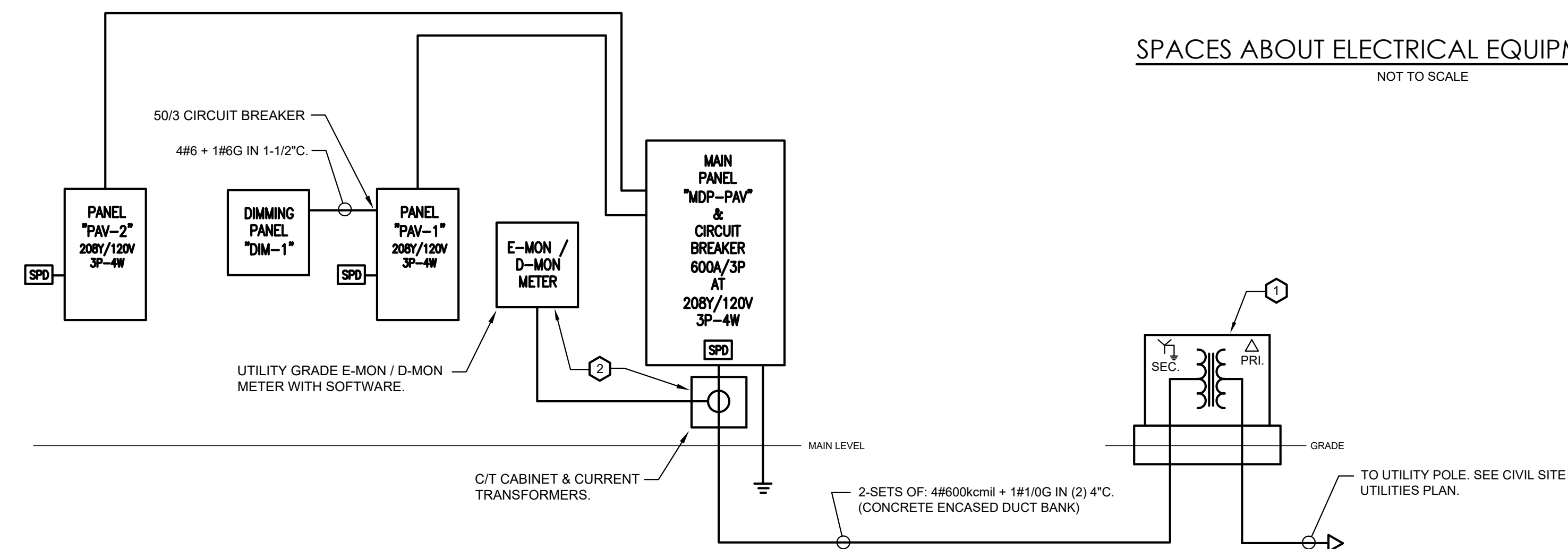
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE SURGE PROTECTION DEVICES FOR ALL PANELBOARDS FOR THIS PROJECT.
- PANELBOARDS SHALL BE PROVIDED WITH SURGE PROTECTION DEVICES EQUAL TO SIEMENS SURGE PROTECTIVE DEVICE MODEL #TPS3 11-15 FOR 208Y/120VOLT, 3-PHASE 4-WIRE INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SURGE PROTECTIVE DEVICE MANUFACTURER FOR INSTALLATION & CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.



SPACES ABOUT ELECTRICAL EQUIPMENT DETAIL
NOT TO SCALE

POWER ONE-LINE NOTES:

- NEW PADMOUNT TRANSFORMER NOTES:
 - TRANSFORMER FURNISHED AND INSTALLED BY OWNER.
 - PRIMARY CONDUIT WITH PULL WIRE BY E.C.
 - PRIMARY CABLE AND CONNECTIONS BY OWNER.
 - SECONDARY CABLE & CONNECTIONS AT TRANSFORMER BY E.C. WITHOWNER SUPERVISION.
 - TRANSFORMER CONCRETE PAD BY OWNER.
 - TRANSFORMER PAD GROUNDING BY OWNER.
 - E.C. SHALL PROVIDE ALL LABOR & MATERIAL REQUIRED FOR SECONDARY SIDE OF TRANSFORMER.
- PROVIDE E-MON / D-MON SUB-METERING CLASS 2000 COMPLETE WITH "RIGHTENERGY" SOFTWARE. SPLIT-CORE SENSORS, DEMAND OPTION, 3-PHASE, 4-WIRE CONFIGURATION, STEEL ENCLOSURE WITH PAD-LOCK & MOUNTING FLANGES, LOW VOLTAGE WIRING & CONNECTIONS AND ALL REQUIRED COMPONENTS PER THE MANUFACTURE'S INSTRUCTIONS. THE E-MON / D-MON SYSTEM SHALL BE PROVIDED FOR "MDP-PAV".
- REFER TO FLOOR PLANS FOR LOCATIONS OF ALL ELECTRICAL EQUIPMENT.
- ALL FREESTANDING ELECTRICAL SWITCHBOARDS, ATS AND TRANSFORMERS SHALL BE PROVIDED WITH A 4" HIGH CONCRETE HOUSING KEEPING PAD. (TYPICAL)



(PAVILION BUILDING)
PROPOSED POWER DISTRIBUTION ONE-LINE DIAGRAM
NOT TO SCALE



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SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES

DRAWN BY: SPC JOB NUMBER: 18050
CHECKED BY: RWD DATE: 04/18/2024

E0.2

SHEET: OF:

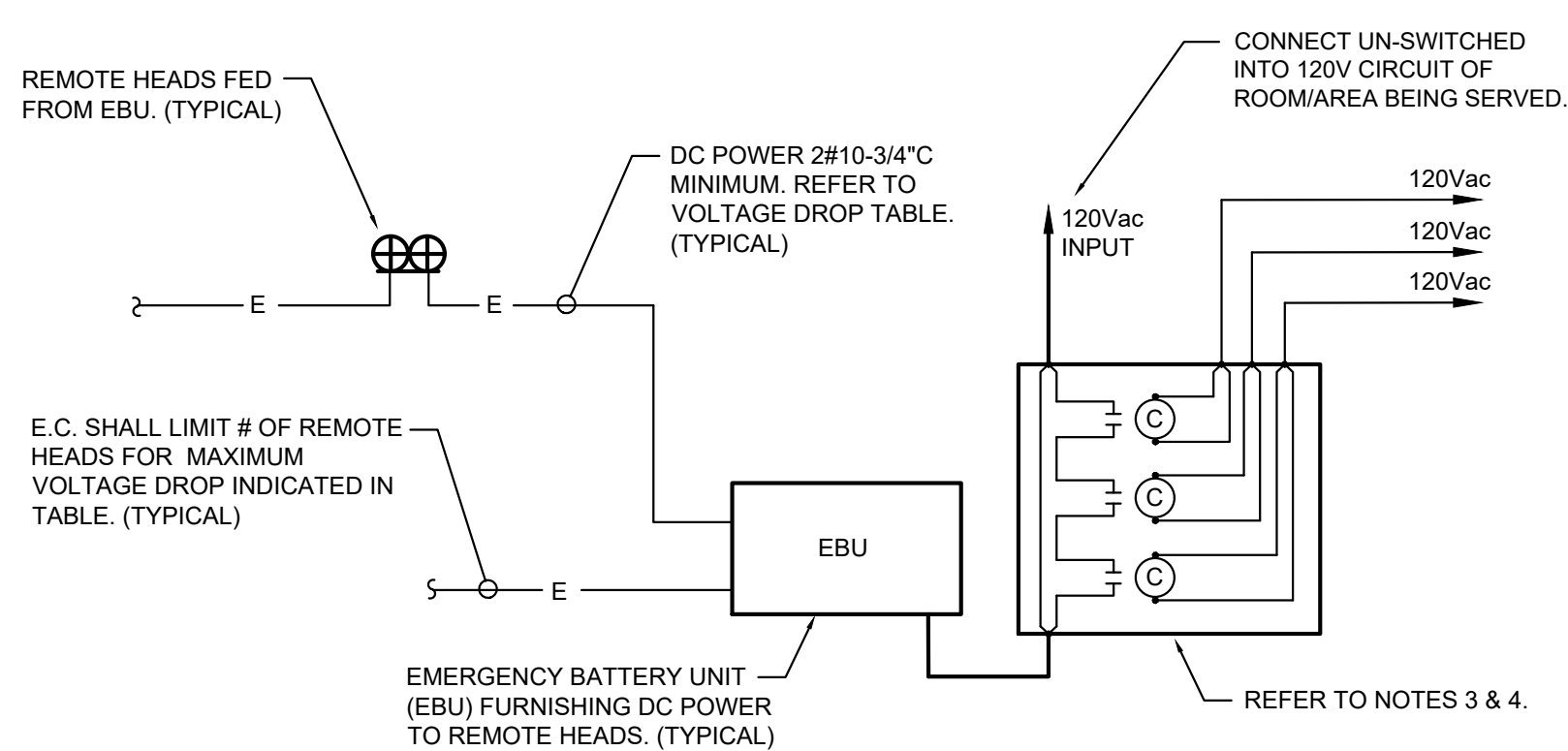
EMERGENCY LIGHTING SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
#1A WP	WEATHER-PROOF DUAL EMERGENCY LIGHTING FIXTURE (REMOTE HEAD) WIRED TO EMERGENCY BATTERY UNIT (EBU) WITH REMOTE CAPABILITY. LITHONIA #ERE-W-T-WP-SQ. LAMPS SHALL BE 8-WATTS / 12-VOLTS FOR EACH LAMP. #1A INDICATES WIRE TO EBU WITH SAME DESIGNATION.	WALL, UON
#1A WP CLG	WEATHER-PROOF SINGLE EMERGENCY LIGHTING FIXTURE (REMOTE HEAD) WIRED TO EMERGENCY BATTERY UNIT (EBU) WITH REMOTE CAPABILITY. LITHONIA #ERE-W-SGL-WP-SQ. LAMPS SHALL BE 8-WATTS / 12-VOLTS FOR EACH LAMP. #1A INDICATES WIRE TO EBU WITH SAME DESIGNATION.	WALL, UON
#1A	EMERGENCY BATTERY UNIT (DUAL ATTACHED HEADS) WITH REMOTE CAPABILITY. EQUAL TO LITHONIA #ELT-275W-AM-VM CONNECT UN-SWITCHED TO LOCAL 120-VOLT LIGHTING CIRCUIT. #1A INDICATES EBU DESIGNATION.	WALL, UON
#1 CLG	DUAL EMERGENCY LIGHTING FIXTURE (REMOTE HEAD) WIRED TO EMERGENCY BATTERY UNIT (EBU) WITH REMOTE CAPABILITY. LITHONIA #ELA-W-T-LT24-LP06VS. LAMPS SHALL BE 5.5-WATTS / 12-VOLTS FOR EACH LAMP. #1 INDICATES WIRE TO EBU WITH SAME DESIGNATION. "CLG" INDICATES CEILING MOUNTED.	WALL, UON
N/E	NORMAL & EMERGENCY LIGHTING FIXTURE. MULE #MERU-LED-ACEM-(COLOR BY ARCHITECT)-IH WITH INTEGRAL PHOTOCELL. CONNECT UN-SWITCHED TO LOCAL LIGHTING CIRCUIT.	WALL
↑	SINGLE FACE LED LIGHTED EXIT SIGN WITH EMERGENCY BATTERY BACK-UP. EQUAL TO LITHONIA #LRP-1-RMR-120/277-ELN. PROVIDE ARROWS WHERE INDICATED ON PLANS.	CEILING
↑↑	DOUBLE FACE LED LIGHTED EXIT SIGN WITH EMERGENCY BATTERY BACK-UP. EQUAL TO LITHONIA #LRP-2-RMR-120/277-ELN. PROVIDE ARROWS WHERE INDICATED ON PLANS.	CEILING

12-VOLT SYSTEM VOLTAGE DROP TABLE

TOTAL WATTS ON WIRE RUN	WIRE GAUGE			
	12	10	8	6
6	378	600	955	1518
7	324	515	818	1301
8	283	450	716	1139
10	226	360	570	910
12	178	283	450	715
14	162	257	409	650
16	133	212	338	538
18	119	189	300	477
20	113	180	286	455
21	108	171	273	434
24	89	141	225	357
25	86	136	216	344
30	75	120	190	303
35	65	103	164	260
40	53	85	135	214
48	44	70	112	178
50	43	68	108	172
75	28	45	72	115
100	21	34	54	86
125	17	27	43	69
150	14	23	36	57
175	12	19	31	49
200	10	16	27	42
225	10	16	25	40
250	9	14	22	36
CONSTANT	2267	3604	5730	9109

MAXIMUM LENGTH OF RUN IN FEET



NOTES:

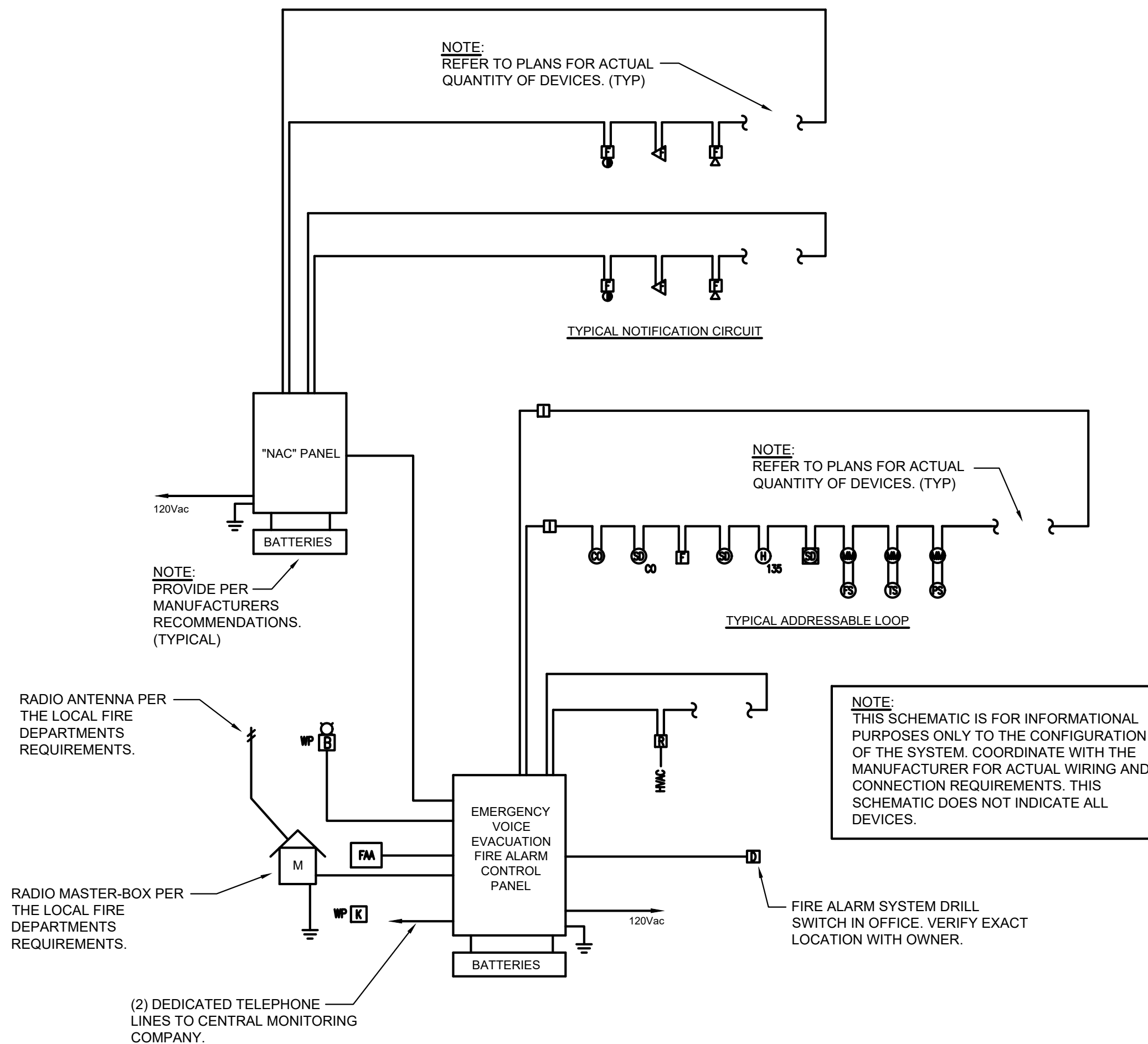
- E.C. SHALL PROVIDE CIRCUIT BREAKER "LOCK-ON" DEVICE FOR ALL CIRCUITS TO EMERGENCY BATTERY UNITS (EBU). (TYPICAL)
- DETAIL IS TYPICAL TO ALL DRAWINGS, UON.
- RELAY PANEL WITH (3) 20A, N.O. 120V COIL RELAYS MOUNTED IN 8"x8"x4" NEMA-1 STEEL ENCLOSURE WITH HINGED COVER. RELAYS HELD CLOSED BY MONITORED LIGHTING CIRCUITS. FIELD VERIFY EXACT NUMBER OF RELAYS REQUIRED PRIOR TO WORK. MONITORED LIGHTING CIRCUITS SHALL BE CONNECTED AHEAD OF ANY SWITCHES.
- STAIRWAY EBUS DO NOT REQUIRE RELAY PANEL. CORRIDOR EBUS SHALL BE CONNECTED TO THE FLOOR'S CORRIDOR CIRCUIT FOR THE RESPECTIVE FLOOR BEING SERVED. ADDITIONAL CORRIDOR CIRCUITS ON THAT FLOOR SHALL BE MONITORED PER NOTE 3 ABOVE.

TYPICAL EMERGENCY LIGHTING CONNECTION DETAIL

NOT TO SCALE

FIRE ALARM NOTES

- E.C. SHALL PROVIDE CIRCUIT BREAKER LOCK-ON DEVICES FOR FACP AND NAC CIRCUIT.
- E.C. SHALL FURNISH AND INSTALL REMOTE INDICATING LIGHTS/TEST SWITCHES FOR DUCT SMOKE DETECTORS.
- REFER TO FLOOR PLANS FOR EXACT NUMBER OF DEVICES AND CANDELA RATINGS.
- COLOR CODE WIRING PER THE LATEST EDITION OF THE STATE FIRE CODE.
- SPLICES WILL NOT BE ALLOWED. WIRENUTS WILL NOT BE ALLOWED.
- RED PAINTED TERMINAL CABINETS & BOXES WITH LOCKABLE COVERS SHALL BE PROVIDED AT ALL JUNCTION POINTS.
- AFC FIRE ALARM / CONTROL CABLE TYPE MC (UL LISTED) MAY BE USED ABOVE CEILINGS AND IN CONCEALED AREAS WHERE ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. EXPOSED AREAS SHALL BE EMT, PAINTED PER ARCHITECTS DIRECTION. ALL CONDUCTORS SHALL BE A MINIMUM OF #16AWG SOLID COPPER, TYPE THHN, THWN OR TFN. ALL WIRING SHALL RUN CONTINUOUSLY FROM DEVICE TO DEVICE.
- THE CONTRACTOR AT COMPLETION OF THE FIRE ALARM SYSTEM SHALL TEST THE ENTIRE SYSTEM PER THE LOCAL FIRE DEPARTMENTS REQUIREMENTS. THE CONTRACTOR SHALL REPLACE OR FIX ANY PART OF THE SYSTEM NOT PROPERLY WORKING.
- THE MINIMUM SEPARATION BETWEEN THE OUTGOING AND RETURN FIRE ALARM CIRCUITS SHALL BE A MINIMUM OF 1-FOOT VERTICALLY AND 4-FEET HORIZONTALLY IN ACCORDANCE WITH THE PROVISIONS OF NFPA-72.
- ALL FIRE ALARM SYSTEM COMPONENTS & MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS.
- E.C. SHALL PROVIDE ANY AND ALL AUXILIARY EQUIPMENT IN ORDER TO PROVIDE A COMPLETE, PROPERLY FUNCTIONING SYSTEM. COORDINATE REQUIREMENTS WITH LOCAL MANUFACTURERS REP.
- ALL FIRE ALARM STROBE SIGNAL DEVICES SHALL BE SYNCHRONIZED TYPE DEVICES AND COMPLY WITH ADA REQUIREMENTS.
- NO T-TAPPING OF FIRE ALARM WIRING SHALL BE ALLOWED. (TYPICAL)
- ALL FIRE ALARM WIRING & RACEWAY SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT BE LOCATED AS TO BE DAMAGED BY BUILDING USE.
- PROVIDE A WEATHER-PROOF KNOX-BOX 3200 SERIES ON THE EXTERIOR OF THE BUILDING. COORDINATE EXACT LOCATION WITH LOCAL FIRE DEPARTMENT.
- ALL SMOKE DETECTORS SHALL BE MOUNTED ON THE CEILING AND UL LISTED FOR CEILING MOUNTING AND LOCATED NOT LESS THAN 12-INCHES FROM ANY WALL. DETECTORS SHALL NOT BE IN A DIRECT AIR FLOW NOR CLOSER THAN 3-FEET FROM ANY AIR SUPPLY DIFFUSER. (TYPICAL)
- UL LISTED INSULATED THROAT, SET SCREW CONNECTORS SHALL BE USED WITH MC CABLE INSTALLATIONS. (CLAMP CONNECTORS ARE NOT ALLOWED) A CABLE CUTTING TOOL WITH CONTROLLED DEPTH OF CUT SHALL BE USED IN ALL MC CABLE INSTALLATIONS.
- FAULT ISOLATION MODULES SHALL BE INSTALLED FOR EVERY 25 DEVICES AND IN NO CASE SHALL THE LENGTH OF AN AREA BE DISABLED BY A WIRE-TO-WIRE SHORT CIRCUIT FAULT EXCEED 200' IN ANY ONE DIRECTION. WHERE A SINGLE CIRCUIT SERVES MORE THAN ONE FLOOR; FAULT ISOLATION MODULES SHALL BE INSTALLED TO PREVENT A WIRE-TO-WIRE SHORT CIRCUIT FAULT ON ONE FLOOR TO DISABLE THE CIRCUIT ON ANOTHER FLOOR.
- WIRING FOR THE FIRE ALARM SYSTEM SHALL BE CLASS "A".
- REFER TO THE SPECIFICATIONS FOR THE "SEQUENCE OF OPERATION" AND ADDITIONAL INFORMATION.
- E.C. SHALL PRODUCE A MANUFACTURER'S COMPLETE FIRE ALARM SYSTEM ONE-LINE DIAGRAM AND ADDRESS PLAN DURING THE SHOP DRAWING SUBMITTAL PROCESS.
- E.C. SHALL PROVIDE ALARM INDICATORS AND HVAC EQUIPMENT OVERRIDE SWITCHES MOUNTED IN UTILITY ROOMS WITH FIRE ALARM PANEL. ALL SWITCHES AND HEATING UNITS SHALL BE CLEARLY LABELED BY NUMBERS AS PER PLANS.
- E.C. SHALL OBTAIN FROM THE LOCAL FIRE DEPARTMENT, A LIST OF FIRE ALARM ZONE CODES AND DESCRIPTIONS AND PROGRAM INTO FIRE ALARM SYSTEM AS REQUIRED.



TYPICAL FIRE ALARM SCHEMATIC

NOT TO SCALE

FIRE ALARM SYMBOL LEGEND

NFPA SYMBOL	PLAN SYMBOL	DESCRIPTION	MOUNTING
	SD	FIRE ALARM SYSTEM PHOTOELECTRIC SMOKE DETECTOR.	CEILING
	H	FIRE ALARM SYSTEM COMBINATION RATE OF RISE AND 135-DEGREES FAHRENHEIT FIXED TEMPERATURE HEAT DETECTOR.	CEILING
	H197	FIRE ALARM SYSTEM 197-DEGREES FAHRENHEIT FIXED TEMPERATURE HEAT DETECTOR.	CEILING
	SD	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR; INSTALLED BY HVAC CONTRACTOR & FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR.	CEILING
	FS	FIRE SPRINKLER SYSTEM FLOW SWITCH; FURNISHED & INSTALLED BY F.P. CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR INTO THE FIRE ALARM SYSTEM VIA AN INDIVIDUAL ADDRESSABLE MONITOR MODULE.	VALVE
	TS	FIRE SPRINKLER SYSTEM TAMPER SWITCH; FURNISHED & INSTALLED BY F.P. CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR INTO THE FIRE ALARM SYSTEM VIA AN INDIVIDUAL ADDRESSABLE MONITOR MODULE.	VALVE
	PS	FIRE SPRINKLER SYSTEM PRESSURE SWITCH; FURNISHED & INSTALLED BY F.P. CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR INTO THE FIRE ALARM SYSTEM VIA AN INDIVIDUAL ADDRESSABLE MONITOR MODULE.	VALVE
	R	FIRE ALARM SHUT DOWN RELAY.	
	F	FIRE ALARM SYSTEM MANUAL DOUBLE ACTION PULL STATION.	48" AFF TO TOP OF HANDLE.
	75cd	FIRE ALARM SYSTEM STROBE. ALL STROBES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "75cd" INDICATES CANDELA RATING OF STROBE.	80" AFF
	75cd LF WP	FIRE ALARM SYSTEM AUDIBLE/STROBE. ALL AUDIBLE/STROBES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "WF" INDICATES TO PROVIDE WEATHER-PROOF DEVICE. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE. "75cd" INDICATES CANDELA RATING OF STROBE.	80" AFF
	75cd LF WP	FIRE ALARM SYSTEM CEILING TYPE AUDIBLE/STROBE. ALL AUDIBLE/STROBES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "WF" INDICATES TO PROVIDE WEATHER-PROOF DEVICE. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE.	CEILING
	LF	FIRE ALARM SYSTEM AUDIBLE ONLY. ALL AUDIBLE DEVICES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE.	80" AFF
	LF	FIRE ALARM SYSTEM CEILING TYPE MINI-AUDIBLE/STROBE. ALL AUDIBLE DEVICES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE.	CEILING
	CM	FIRE ALARM SYSTEM CONTROL MODULE.	
	MM	FIRE ALARM SYSTEM MONITOR MODULE.	
	RTS	FIRE ALARM SYSTEM DEVICE REMOTE TEST STATION WITH LED INDICATING LIGHT.	
	RIL	FIRE ALARM SYSTEM DEVICE WITH LED INDICATING LIGHT TO DISPLAY ALARM CONDITION OF REMOTE DETECTOR. CENTER ABOVE DOOR.	
	MB	FIRE ALARM MASTER BOX.	
	K	WEATHER-PROOF KNOX-BOX. LOCATE PER LOCAL AHJ.	
	WP	FIRE ALARM SYSTEM BEACON. "WP" INDICATES TO PROVIDE WEATHER-PROOF DEVICE.	
	F/SD	FIRE / SMOKE DAMPER PROVIDED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN INDIVIDUAL FIRE ALARM SYSTEM CONTROL RELAY MODULE AND TIE-IN DAMPER INTO THE FIRE ALARM SYSTEM. PROVIDE 120VAC POWER SUPPLY CIRCUIT AS REQUIRED.	
	FACP	ADDRESSABLE FIRE ALARM CONTROL UNIT (PANEL).	
	FAA	REMOTE FIRE ALARM ANNUCIATOR (PANEL).	
	NAC	FIRE ALARM SYSTEM NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL (BOOSTER).	
	DH	LOW VOLTAGE MAGNETIC DOOR HOLDER TIE INTO THE FIRE ALARM SYSTEM VIA AN INDIVIDUAL CONTROL RELAY MODULE.	
	CO	CARBON MONOXIDE DETECTOR WITH TEMPORAL 4 ALARM CONNECTED TO THE FIRE ALARM SYSTEM. ALL FUEL BURNING EQUIPMENT SHALL BE SHUT DOWN VIA A FIRE ALARM SYSTEM CONTROL RELAY MODULE UPON DETECTION OF CARBON MONOXIDE.	CEILING
	SD CO	FIRE ALARM SYSTEM MULTI-CRITERIA COMBINATION SMOKE & CARBON MONOXIDE DETECTOR WITH SEPARATE AUDIBLE ALARM PATTERNS (TEMPORAL 3 FOR FIRE AND TEMPORAL 4 FOR CARBON MONOXIDE).	CEILING



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Revision Schedule

Revision Number	Revision Date

Issued for Bid
05/01/2024

SHEET TITLE

ELECTRICAL LIFE SAFETY DIAGRAMS & LEGENDS

DRAWN BY: SPC JOB NUMBER: 18050

CHECKED BY: RWD DATE: 04/18/2024

E0.3

SHEET: OF:

LIGHTING COMMISSIONING NOTES:

1. PROVIDE SYSTEM START-UP AND COMMISSIONING THAT SHALL INCLUDE SYSTEMS FOR LIGHTING CONTROL EQUIPMENT, PANELS, POWER-PACKS, DIMMING CONTROLLERS, DIMMER SWITCHES, TIMECLOCKS, RELAYS, EMERGENCY LIGHTING POWER CONTROLLERS, EMERGENCY LIGHTING INVERTER BATTERY SYSTEMS, PHOTOCELL CONTROLS, TIME-SWITCHES, SWITCHES, OCCUPANCY SENSORS, VACANCY SENSORS, COLOR (KELVIN) TUNING AND WIRING. THE SYSTEM START-UP AND COMMISSIONING SHALL INCLUDE BUT NOT BE LIMITED TO VERIFYING EQUIPMENT SELECTION ARE CORRECT FOR THE PROJECT'S DESIGN INTENT, EQUIPMENT INSTALLATION, OVERSEEING FUNCTIONAL TESTING, OWNER TRAINING, AND WARRANTY REVIEW WITHIN 10-MONTHS OF SUBSTANTIAL COMPLETION. THE CONTRACTOR AND LIGHTING CONTROLS MANUFACTURER SHALL COORDINATE WITH THE OWNER ON ALL OPERATION TIMES, SET POINTS, SENSITIVITY SETTINGS AND DELAY SETTINGS AND PROGRAM SYSTEMS ACCORDINGLY. THE LIGHTING CONTROLS MANUFACTURER SHALL REVIEW SHOP DRAWINGS FOR DIMMING BALLASTS AND DRIVERS TO BE USED AND VERIFY IN WRITING THE ASSOCIATED CONTROLS ARE COMPATIBLE WITH SUCH DIMMING BALLASTS AND DRIVERS. AT A MINIMUM, THREE SITE VISITS AND/OR MEETINGS SHALL BE REQUIRED AND SHALL BE INCLUDED AS PART OF THIS PROJECT'S SCOPE OF WORK. IF FINDINGS, NON-ACCESS TO REVIEW SYSTEM OR CONCLUSIONS REQUIRE ADDITIONAL SITE VISITS, THEN THEY SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

a) PRE-INSTALLATION VISIT: MANUFACTURER SHALL PROVIDE A FACTORY AUTHORIZED TECHNICIAN TO CONFIRM PROPER PLACEMENT OF ALL LIGHTING CONTROL SYSTEM COMPONENTS AND VERIFY HIGHLY REFLECTIVE FINISHES, UNFORESEEN ARCHITECTURAL OBSTRUCTIONS, FURNITURE PLACEMENT, PENDANT LIGHTING FIXTURE HEIGHTS, WINDOWS AND WINDOW FINISHES, ETC.. WILL NOT IMPACT THE PROPER FUNCTION OF THE SYSTEM.

b) CONSTRUCTION VISIT: MANUFACTURER SHALL PROVIDE A FACTORY AUTHORIZED TECHNICIAN TO REVIEW WIRING AND INSTALLATION METHODS WITH INSTALLING CONTRACTOR.

c) START-UP COMMISSIONING VISIT SHALL INCLUDE THE FOLLOWING:

- THAT ALL CONTROL STATIONS, SWITCHES, OCCUPANCY SENSORS, VACANCY SENSORS AND DAY-LIGHTING SENSORS ARE LOCATED, INSTALLED, AND ADJUSTED AS INTENDED BY THE FACTORY AND THE CONTRACT DOCUMENTS.
- THE OCCUPANCY/VACANCY SENSORS AND DAY-LIGHTING SENSORS ARE OPERATING WITHIN THE MANUFACTURER'S SPECIFICATIONS.
- THE SENSORS AND RELAY PANELS INTERACT AS A COMPLETE AND OPERATIONAL SYSTEM TO MEET THE DESIGN INTENT.
- MANUFACTURER TO PROVIDE A WRITTEN STATEMENT VERIFYING THAT THE SYSTEM MEETS THE ABOVE REQUIREMENTS.
- CONFIRMS THAT ALL INPUT AND OUTPUTS ARE CORRECT AND FUNCTIONAL, WIRING IS COMPLETE TO THE END DEVICE AND THE END DEVICE FUNCTIONS PROPERLY.
- TESTING THAT THE SYSTEM PROGRAMMING IS FUNCTIONAL AND SATISFIES THE DESIGN INTENT AND OWNER'S REQUIREMENTS. TESTING THE SYSTEM IN ALL MODES OF OPERATION, INCLUDING PROPER OPERATION DURING AND RECOVERY FROM LOSS OF BUILDING POWER.

2. SYSTEM TRAINING:

- MANUFACTURER SHALL PROVIDE FACTORY AUTHORIZED TECHNICIAN TO TRAIN OWNER PERSONNEL IN THE OPERATION, PROGRAMMING AND MAINTENANCE OF THE LIGHTING CONTROL SYSTEM INCLUDING ALL OCCUPANCY SENSORS, DAY-LIGHTING CONTROLS, ROOM CONTROLLERS, CONTROLLED PLUG-LOADS, SWITCHES, ETC..

3. SYSTEM PROGRAMMING:

- MANUFACTURER SHALL PROVIDE FACTORY AUTHORIZED TECHNICIAN FOR SYSTEM PROGRAMMING INCLUDING:

- WIRING DOCUMENTATION.
- SWITCH OPERATION.

4. FUNCTIONAL TESTING:

- ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.

- ENSURE ALL DEVICES ARE TESTED AND OPERATE AS INTENDED

- PROVIDE A REPORT THAT ALL PARTS OF THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED AND OPERATE AS INTENDED.

5. CLOSEOUT:

AFTER ALL TESTING AND VERIFICATION IS COMPLETE, THE CONTRACTOR SHALL PROVIDE A COMPLETED CHECKLIST OF ALL SYSTEMS INSTALLED, AS-BUILT DRAWINGS, OPERATION AND MAINTENANCE MANUALS, RECORDS OF FINAL SETTINGS TO THE OWNER OR AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY. THE FOLLOWING INFORMATION SHALL BE INCLUDED IN THE CLOSEOUT DOCUMENTS:

a) AS-BUILT DRAWINGS:

CONSTRUCTION DOCUMENTS SHALL INCLUDE THE LOCATION AND CATALOGUE NUMBER OF EACH PIECE OF EQUIPMENT.

b) MANUALS:

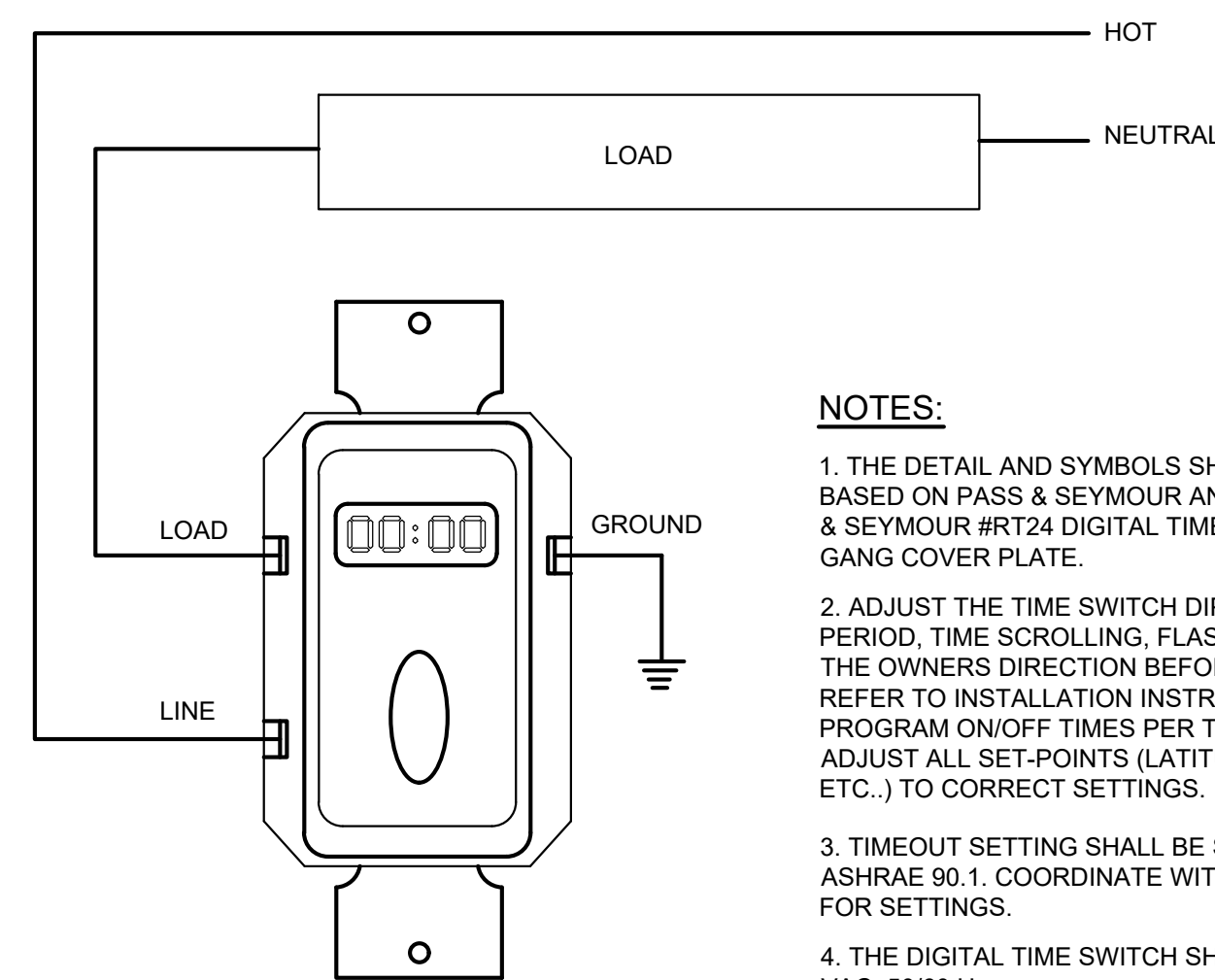
AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:

- NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
- A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
- SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.
- OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RE-LAMPING SHALL BE CLEARLY IDENTIFIED.
- A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.

c) REPORT:

A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:

- RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
- DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.



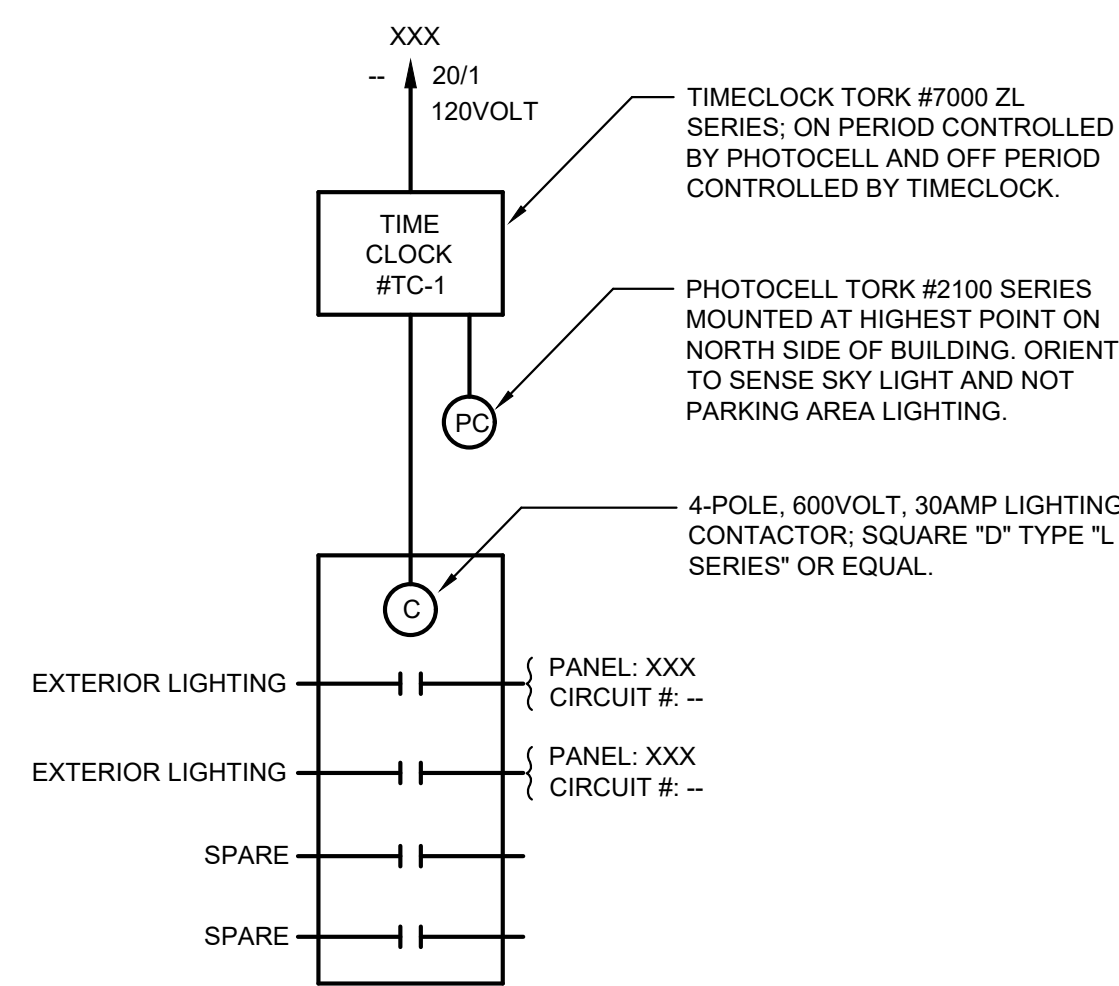
SYMBOL ON PLANS = TS

DIGITAL TIME SWITCH DETAIL

NOT TO SCALE

NOTES:

1. THE DETAIL AND SYMBOLS SHOWN ON THE PLANS ARE BASED ON PASS & SEYMOUR AND SHALL BE EQUAL TO PASS & SEYMOUR #RT24 DIGITAL TIME SWITCH. PROVIDE SINGLE GANG COVER PLATE.
2. ADJUST THE TIME SWITCH DIP SETTINGS FOR TIMEOUT PERIOD, TIME SCROLLING, FLASH AND BEEPER OPTIONS PER THE OWNERS DIRECTION BEFORE INSTALLING THE SWITCH. REFER TO INSTALLATION INSTRUCTIONS FOR DETAILS. PROGRAM ON/OFF TIMES PER THE OWNER'S DIRECTION AND ADJUST ALL SET-POINTS (LATITUDE, TIME OF DAY, DATE, ETC.) TO CORRECT SETTINGS.
3. TIMEOUT SETTING SHALL BE SET TO COMPLY WITH ASHRAE 90.1. COORDINATE WITH MANUFACTURER & OWNER FOR SETTINGS.
4. THE DIGITAL TIME SWITCH SHALL BE RATED FOR 120/277 VAC, 50/60 Hz.



CONTACTOR #TC-1

SITE LIGHTING CONTROL DIAGRAM

NOT TO SCALE

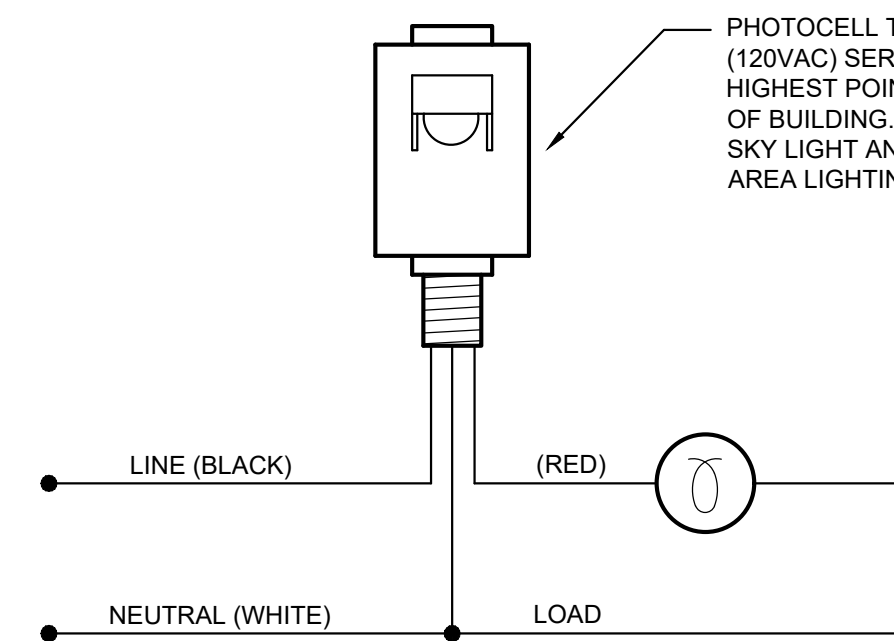
LIGHTING FIXTURE NOTES

NOTES:

1. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LED LAMPS INSTALLED READY FOR OPERATION. ALL LED LAMPS SHALL HAVE THE SAME COLOR TEMPERATURE FROM A SINGLE LAMP MANUFACTURER UNLESS OTHERWISE DIRECTED BY THE ARCHITECT, OWNER, AND/OR LIGHTING DESIGNER.
2. THE ELECTRICAL CONTRACTOR SHALL ALLOW TIME FOR DIRECTIONAL ADJUSTMENT OF ALL LIGHT FIXTURES AS DIRECTED BY ARCHITECT, OWNER, ENGINEER AND/OR LIGHTING DESIGNER.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LIGHTING FIXTURE MANUFACTURER AND LIGHTING CONTROLS MANUFACTURER TO PROVIDE COMPATIBLE COMPONENTS BETWEEN LIGHTING FIXTURE AND ASSOCIATED CONTROLS. (TYPICAL)
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THE LIGHTING FIXTURE DESIGNATIONS & SPECIFICATIONS WITH THE ARCHITECT FOR ALL MODEL NUMBERS, REQUIRED LAMPS TYPES, WATTAGE, COLOR TEMPERATURE, FOOTCANDLE LEVELS, ETC., PRIOR TO BID. THIS SCHEDULE IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT IMPLY OR WARRANT THE LIGHTING FIXTURE DESIGN INTENT. (TYPICAL)

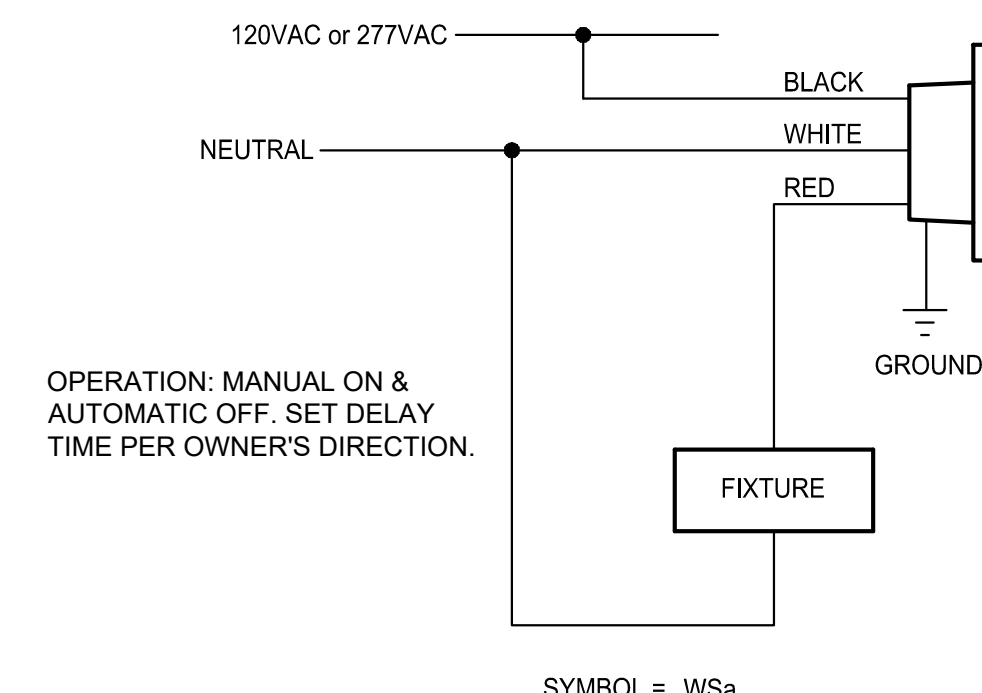
NOTES:

1. PROVIDE MOUNTING BRACKET AS REQUIRED. (TYPICAL)
2. THIS DIAGRAM SHALL APPLY TO EXTERIOR DOOR ENTRY LIGHTING FIXTURES.



SITE LIGHTING CONTROL DIAGRAM PHOTOCELL ONLY

NOT TO SCALE

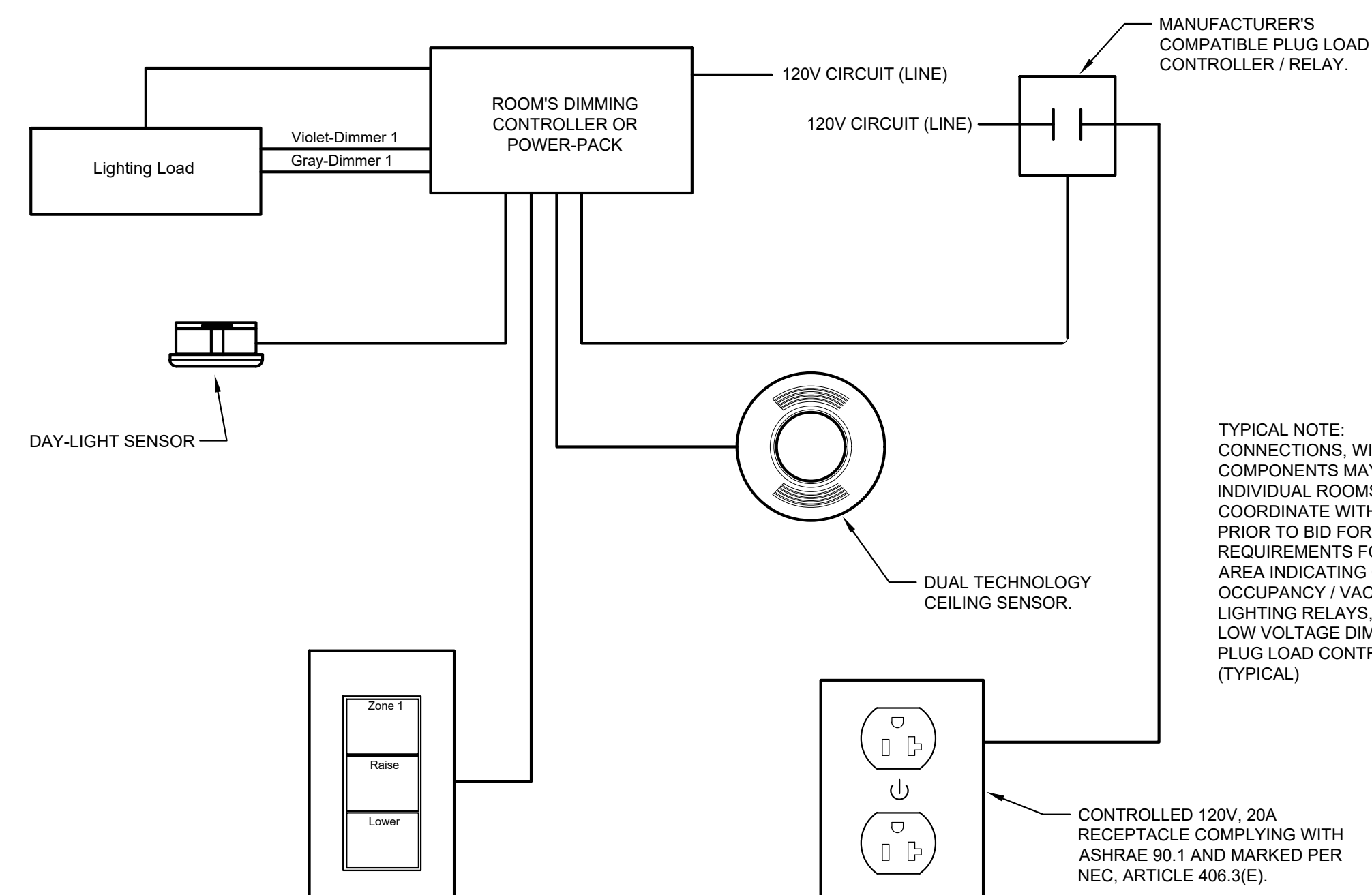


OPERATION: MANUAL ON & AUTOMATIC OFF. SET DELAY TIME PER OWNER'S DIRECTION.

SYMBOL = WSa

TYPICAL DIAGRAM FOR "WS" SENSOR

NOT TO SCALE



TYPICAL NOTE: CONNECTIONS, WIRING AND COMPONENTS MAY VARY BASED ON INDIVIDUAL ROOMS AND AREAS. COORDINATE WITH MANUFACTURER PRIOR TO BID FOR SPECIFIC REQUIREMENTS FOR EACH ROOM AND AREA INDICATING CONTROLLERS, OCCUPANCY / VACANCY SENSORS, LIGHTING RELAYS, DAYLIGHT SENSORS, LOW VOLTAGE DIMMERS, SWITCHES, PLUG LOAD CONTROLLERS, ETC. (TYPICAL)

SYMBOL ON PLANS = (PL) (OS) (VS) (DC) (PP) LDa LDb LDc LSa Lsb LSc

TYPICAL WIRING DIAGRAM FOR ROOM CONTROLLER SYSTEM

NOT TO SCALE



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Revision Schedule

Revision Number	Revision Date

Issued for Bid
05/01/2024

SHEET TITLE

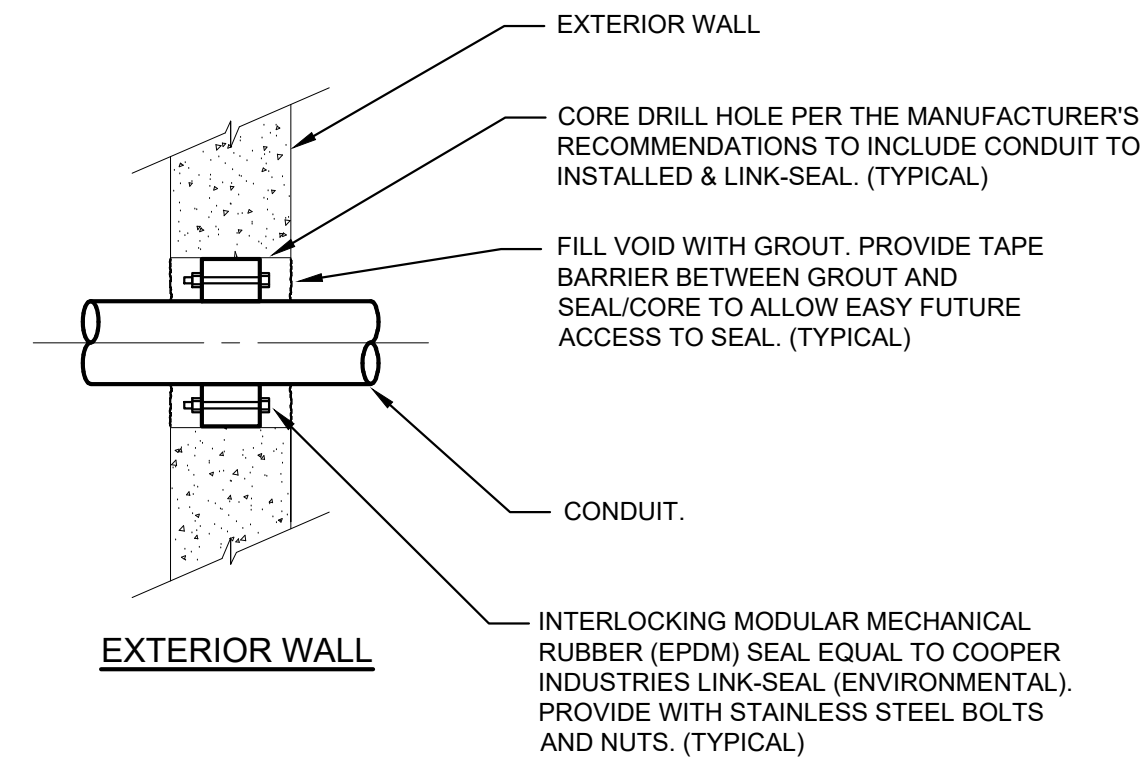
**ELECTRICAL
LIGHTING
CONTROL
DIAGRAMS**

DRAWN BY: SPC JOB NUMBER: 18050

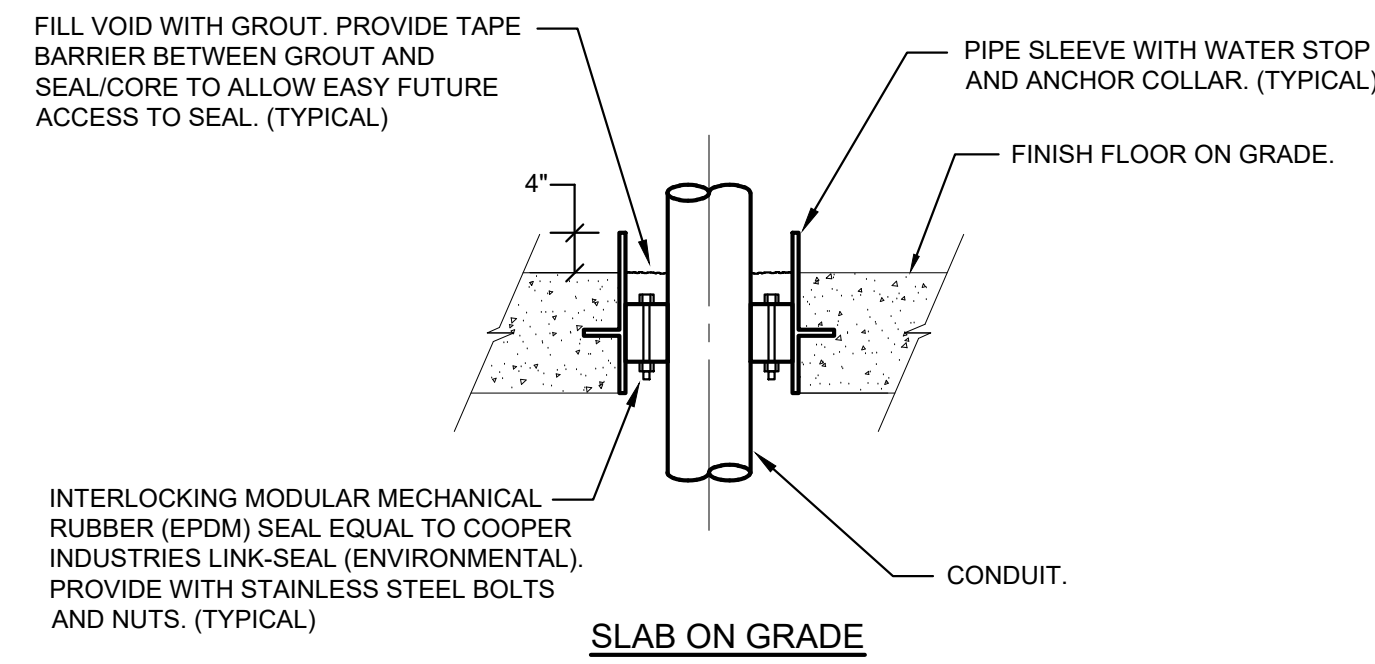
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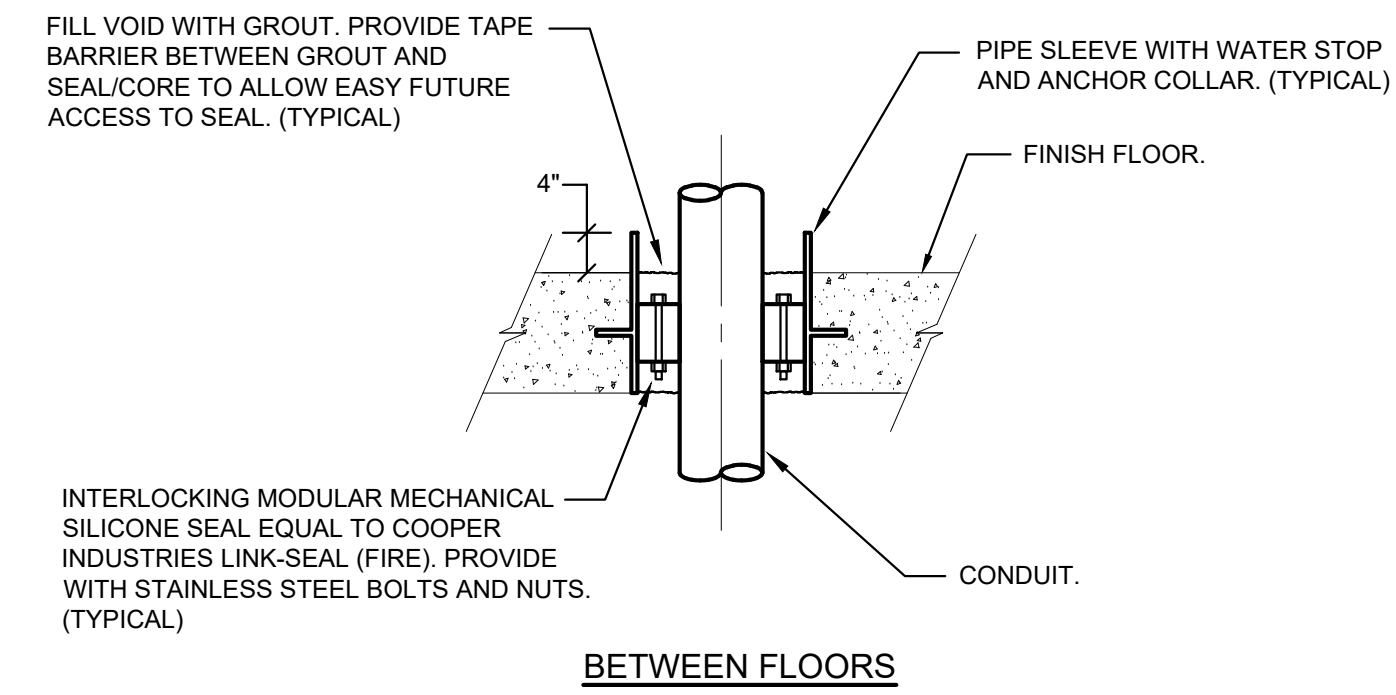
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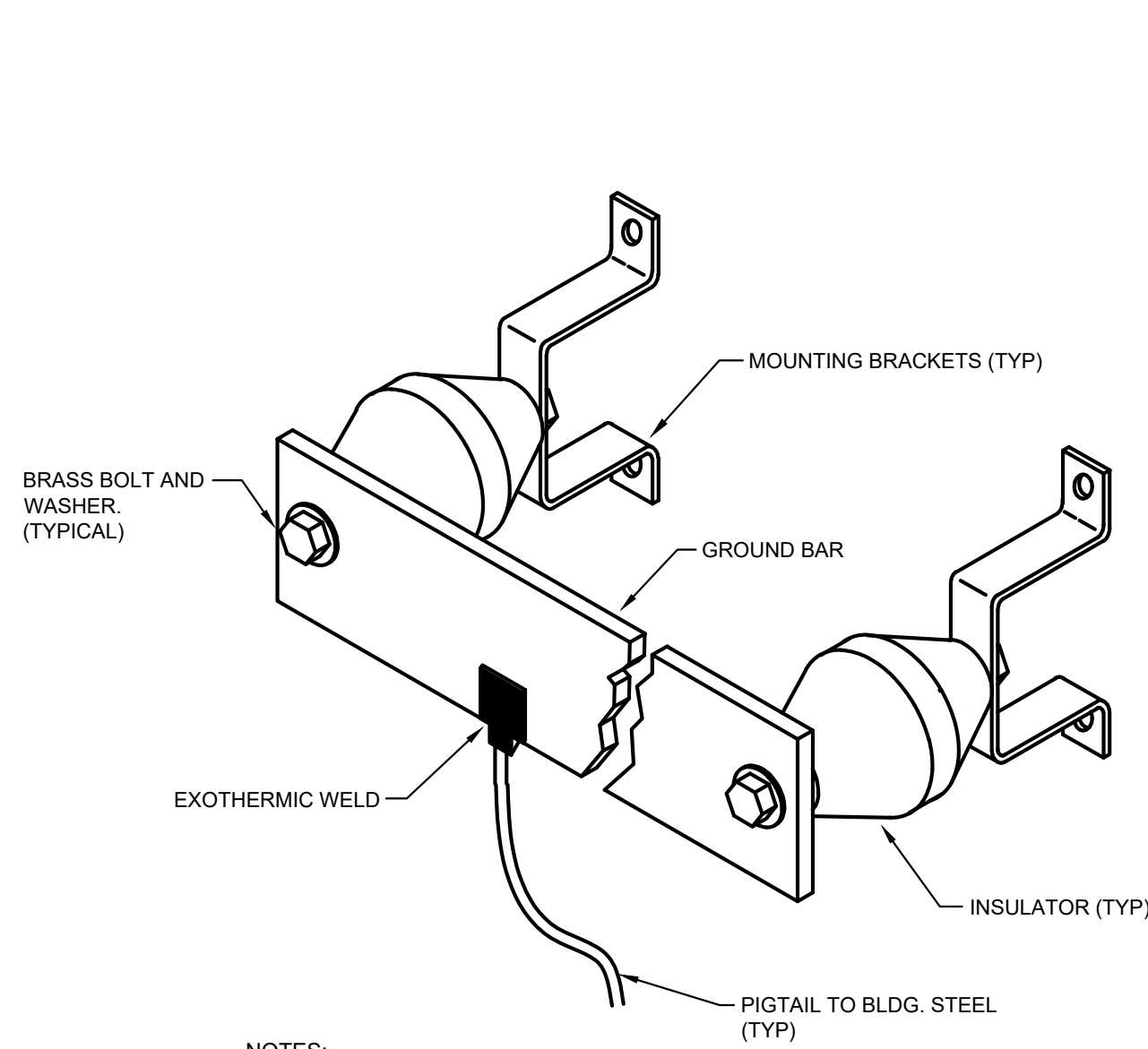
WATER TIGHT CONDUIT SEAL DETAIL
NOT TO SCALE



WATER TIGHT CONDUIT SEAL DETAIL
NOT TO SCALE

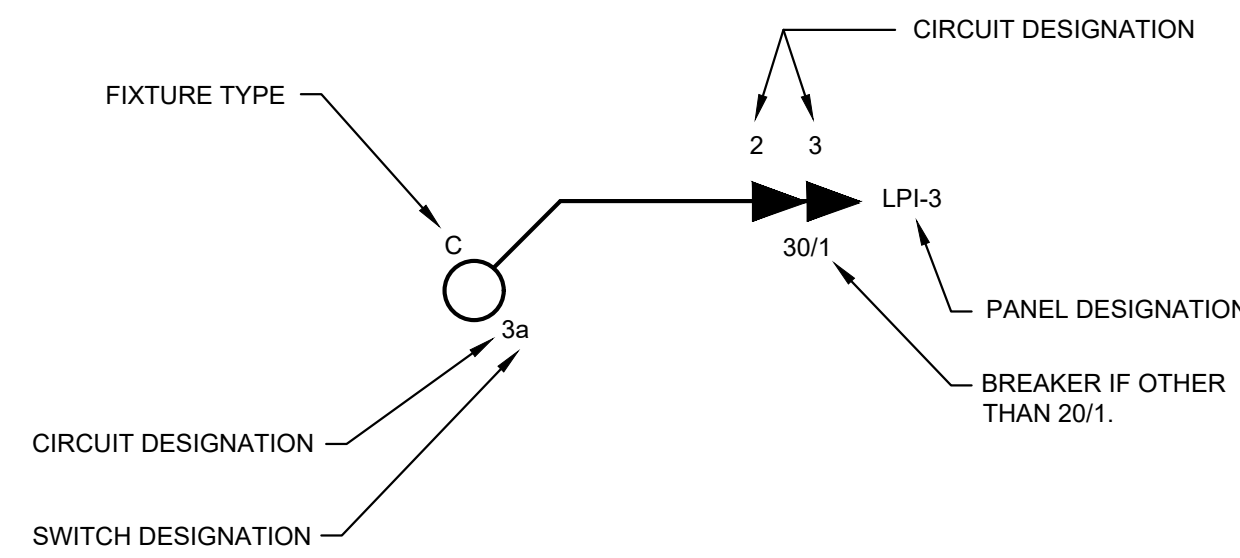


WATER TIGHT / FIRE RESISTANT CONDUIT SEAL DETAIL
NOT TO SCALE



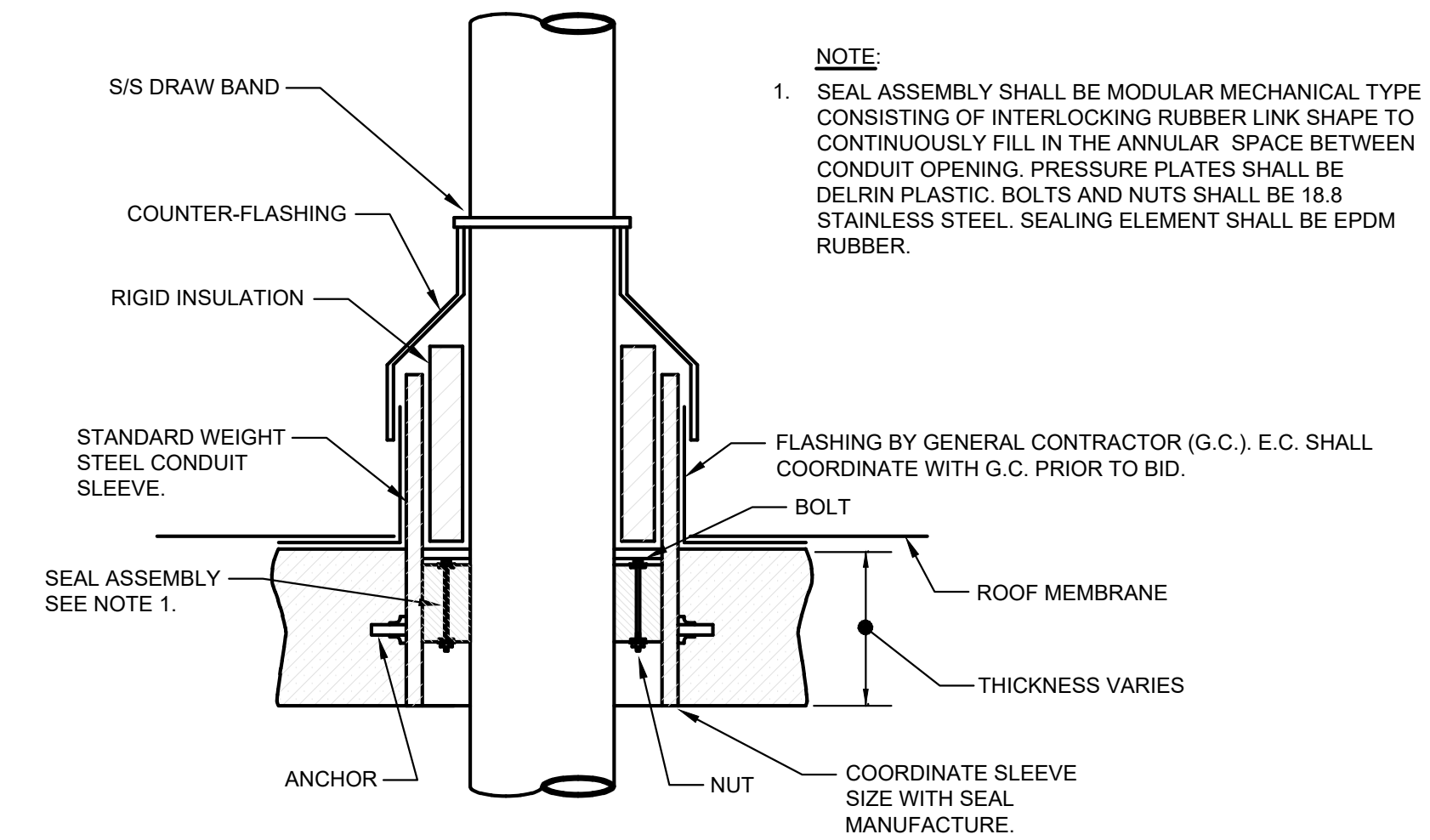
- NOTES:**
1. PROVIDE GROUND BAR (1/4" X 2" X 24") WITH WALL MOUNTING BRACKETS, INSULATORS AND A 25' EXOTHERMICALLY WELDED PIGTAIL (#6 AWG) IN EACH SERVER ROOM & IDF ROOM.
 2. MOUNT GROUND BAR AT THE BOTTOM RIGHT CORNER ON THE PLYWOOD BACKBOARD.
 3. GROUND BARS SHALL HAVE CAPACITY FOR NINE (9) GROUNDING LUGS TO BE ATTACHED.
 4. CONNECT EXOTHERMICALLY WELDED PIGTAIL TO BUILDING STEEL.
 5. GROUND BARS SHALL BE ELECTROLYTIC COPPER AND SHALL BE MOUNTED ON INSULATORS RATED AT 2700 VOLTS.
 6. COPPER SURFACES SHALL BE SMOOTH AND WITHOUT MARKS DEEPER THAN 0.010 INCHES.
 7. MANUFACTURERS SHALL BE ERICO, HARGER OR APPROVED EQUAL.

TYPICAL GROUND BAR DETAIL
NOT TO SCALE

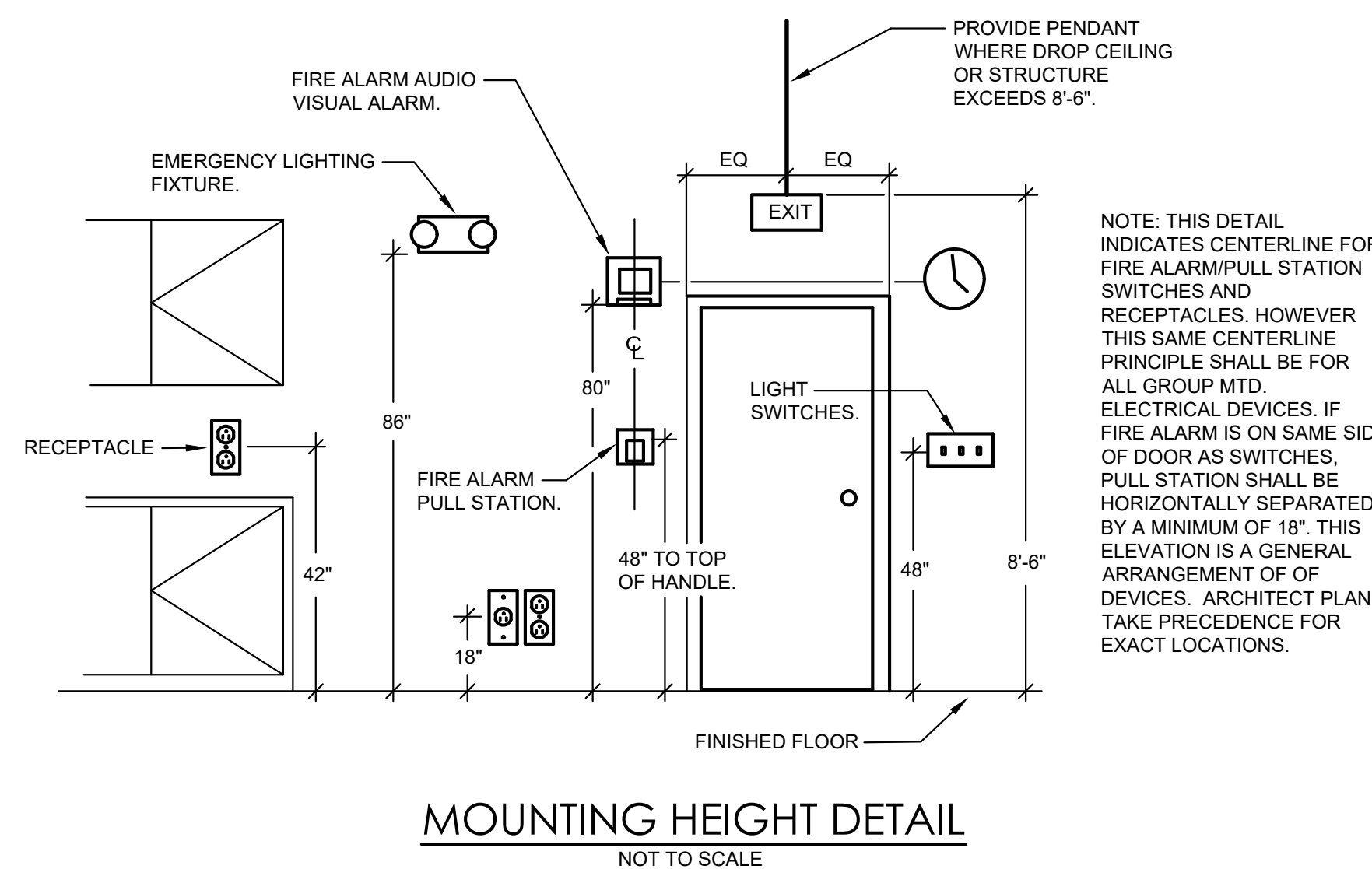


- NOTES:**
1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS BUT NOT ON PLANS, AND VICE VERSA, SHALL APPLY OR SHALL BE PROVIDED AS THOUGH EXPRESSLY REQUIRED ON BOTH. IT IS NOT INTENDED THAT EVERY JUNCTION BOX, OFFSET, FITTING OR COMPONENT BE SPECIFIED OR SHOWN ON DRAWINGS; HOWEVER, CONTRACT DOCUMENTS REQUIRE PROVISION OF ALL COMPONENTS AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION, WHETHER OR NOT INDICATED OR SPECIFIED.
 2. BRANCH CIRCUIT WIRING MAY NOT BE GRAPHICALLY SHOWN ON DRAWINGS AND MAY BE SHOWN BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT SHOWN GRAPHICALLY. WIRING IS SHOWN BY CONDUIT RUNS ON DRAWINGS WHERE SPECIFIC ROUTING IS REQUIRED OR FOR OTHER SPECIAL REASONS. ONLY ROOMS WITH MULTIPLE SWITCHING HAVE "SWITCH CONTROL LETTERS" ASSIGNED. PROVIDE THHN CONDUCTORS IN AREAS WITH HIGH AMBIENT TEMPERATURES SUCH AS BOILER ROOMS, INCINERATOR ROOMS, MECHANICAL EQUIPMENT ROOMS ETC., FOR SIZES LARGER THAN NO. 10 AWG.

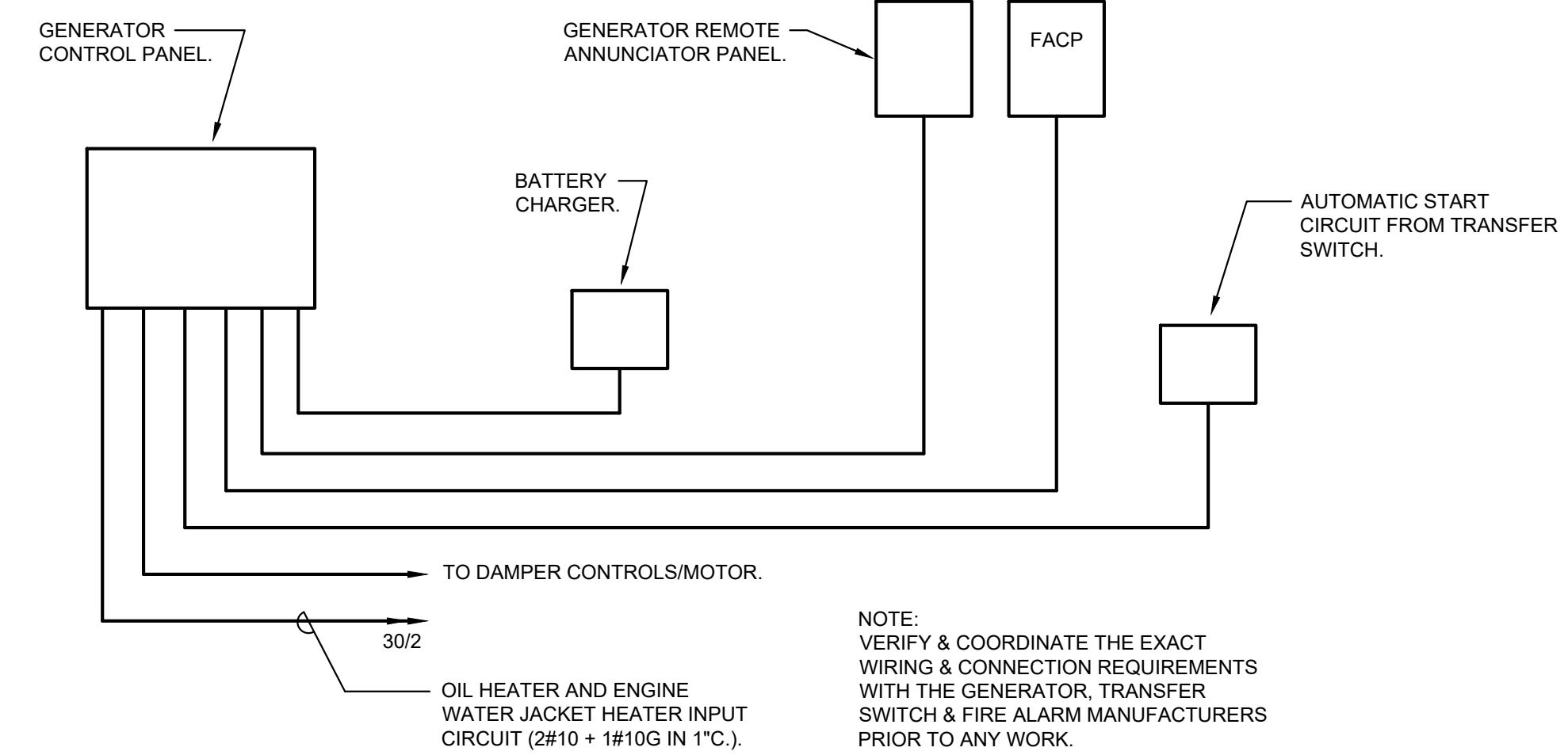
TYPICAL CIRCUITING DETAIL
NOT TO SCALE



TYPICAL CONDUIT THRU ROOF DETAIL
NOT TO SCALE



MOUNTING HEIGHT DETAIL
NOT TO SCALE



EMERGENCY GENERATOR MISCELLANEOUS CONNECTIONS DETAIL
NOT TO SCALE



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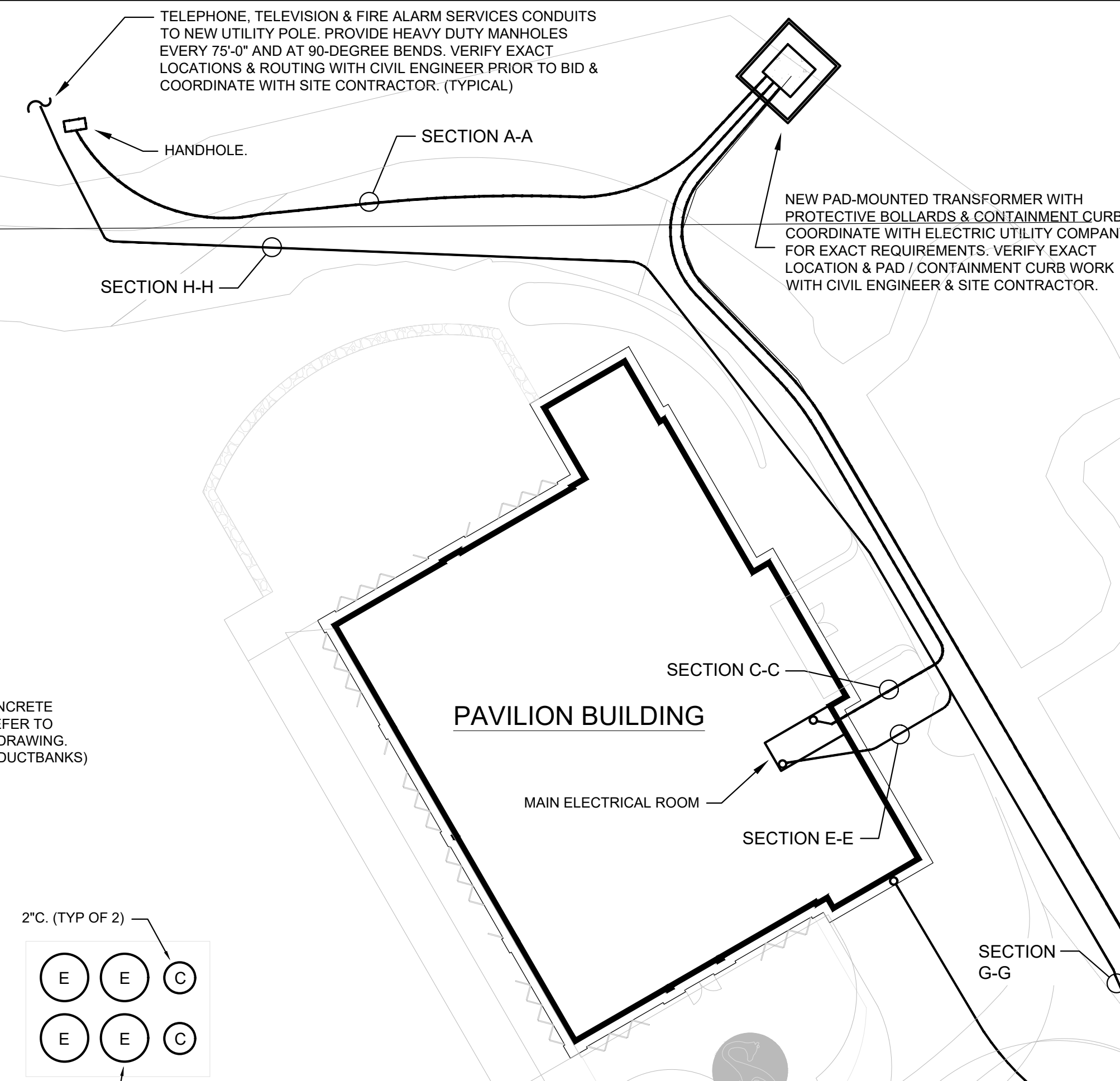
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SHEET TITLE
**ELECTRICAL
DETAILS**

DRAWN BY: SPC JOB NUMBER: 18050
CHECKED BY: RWD DATE: 04/18/2024

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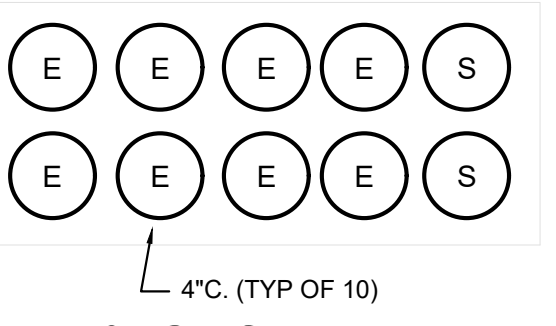
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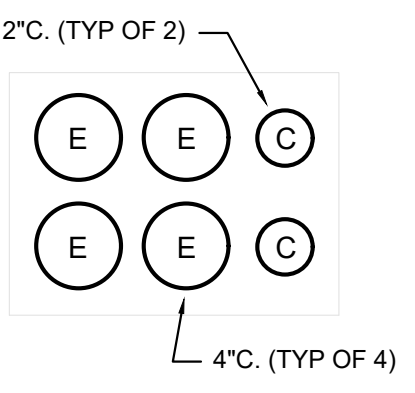
CONDUIT LEGEND	
P	= POWER SERVICE (PRIMARY)
E	= POWER SERVICE (SECONDARY)
TV	= CABLE TELEVISION
T	= TELEPHONE
FA	= FIRE ALARM (MSA)
C	= CONTROL/LOW VOLTAGE WIRES
PV	= PHOTOVOLTAIC (SOLAR)
S	= SPARE WITH PULL STRING

RE-INFORCED CONCRETE ENCASUREMENT. REFER TO DETAILS ON THIS DRAWING. (TYPICAL OF ALL DUCTBANKS)

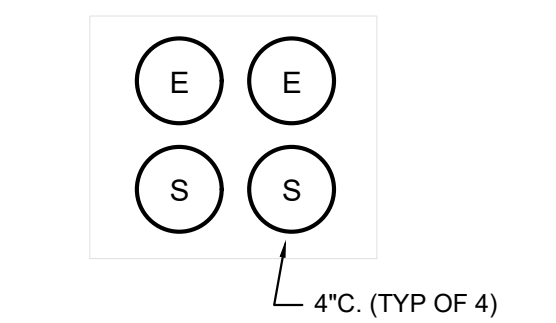
SECTION A - A
NOT TO SCALE



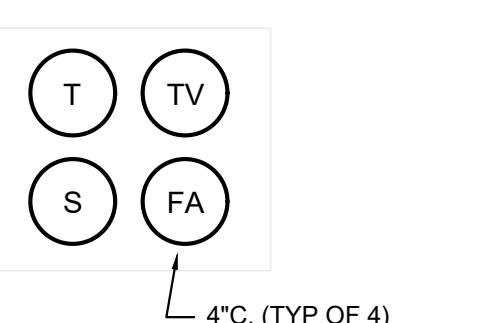
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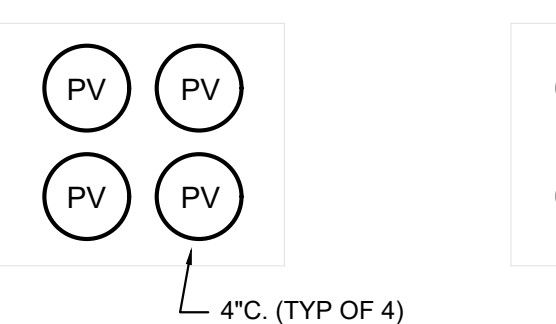
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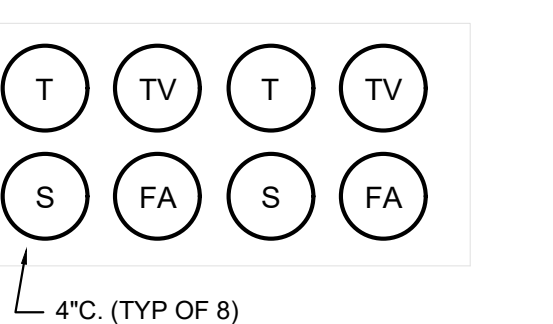
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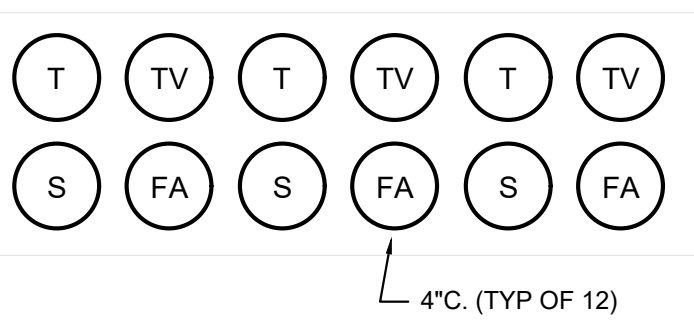
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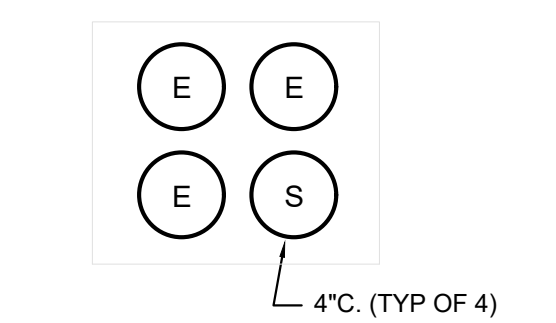
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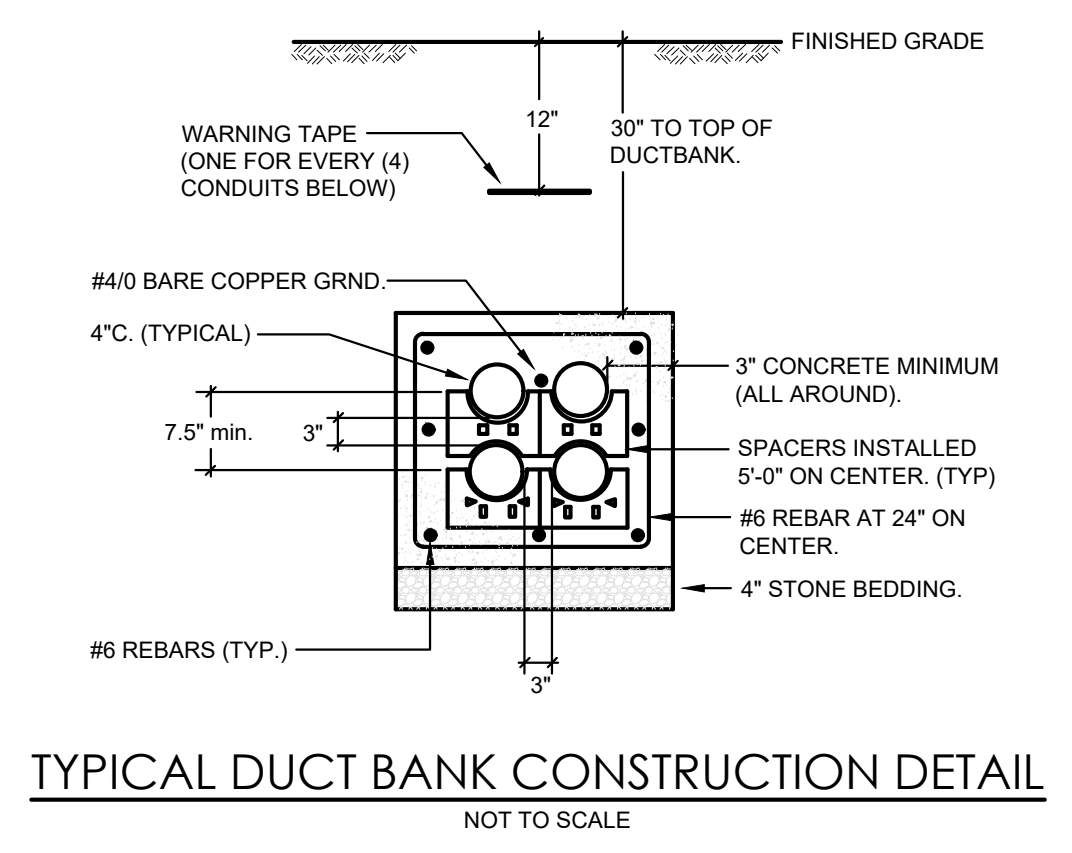
SECTION G - G
NOT TO SCALE



SECTION H - H
NOT TO SCALE



SECTION J - J
NOT TO SCALE



12kV SCHEMATIC ONE-LINE NOTES:

THE WORK FOR THE 12KV UPGRADE DESCRIBED HEREIN SHALL BE PERFORMED BASED ON A DESIGN / BUILD APPROACH IN WHICH THE ELECTRICAL SUB-CONTRACTOR PROVIDES THE ENGINEERING NEEDED TO SATISFY PERFORMANCE CRITERIA AND OTHER REQUIREMENTS LISTED HEREIN. THE CRITERIA AND REQUIREMENTS ARE MEANT TO ESTABLISH THE GENERAL INTENT AND DO NOT ALWAYS GIVE SPECIFIC SIZES AND TYPES. THIS PROPOSAL MUST THEREFORE INCLUDE BOTH SYSTEM DESIGN AND ENGINEERING SERVICES.

SHOP DRAWINGS SHALL CLEARLY DESCRIBE THE LIMITS OF THE WORK AND IDENTIFY RELATED WORK BY OTHER TRADES. WORK THAT THE ELECTRICAL SUB-CONTRACTOR REQUIRES TO BE DONE BY OTHER TRADES SHOULD ALSO BE NOTED. FORMAL COORDINATION DRAWINGS WILL NOT BE PRODUCED. INSTEAD EACH MAJOR SUB-CONTRACTOR WILL CIRCULATE THEIR DRAWINGS TO THE OTHER TRADES FOR REVIEW AND COMMENTS. THIS WILL CONCLUDE WITH A COORDINATION MEETING IN WHICH ALL CONFLICTS WILL BE IDENTIFIED AND RESOLVED.

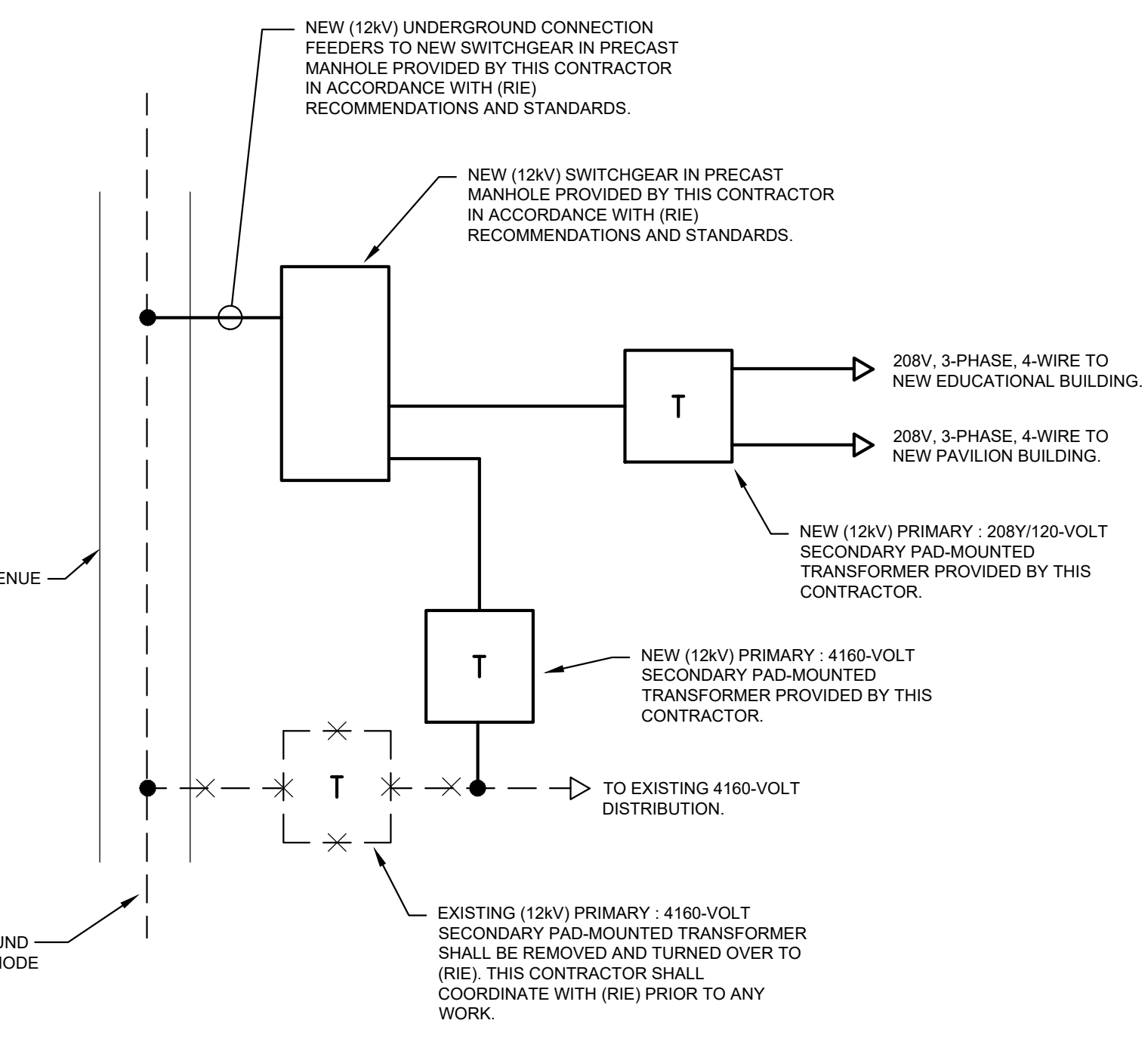
THE RESPONSIBILITY TO INSURE THAT ALL WORK ITEMS FIT IN THE SPACE AVAILABLE LIES WITH THE ELECTRICAL SUB-CONTRACTOR. THE SHOP DRAWINGS MUST IN TURN INCLUDE DIMENSIONED DETAILS DRAWN TO SCALE.

THE ELECTRICAL SUB-CONTRACTOR SHALL REVISE THE SHOP DRAWINGS TO INCLUDE ALL REQUIRED CHANGES. FINAL REVISED DRAWINGS SHALL BE ISSUED PRIOR TO STARTING WORK.

THE PURPOSE OF THIS ONE-LINE DIAGRAM IS TO OUTLINE THE PROCESS BY WHICH ROGER WILLIAMS PARK ZOO CAN CONVERT TO A 12KV PRIMARY METERED DISTRIBUTION SYSTEM IN ORDER TO PROVIDE POWER TO A NEW EDUCATION CENTER BUILDING AND PAVILION BUILDING AT THE PARK. CURRENTLY THE ELECTRIC SERVICE IS PRIMARY METERED AT 12,470-VOLTS (12KV) AND FED FROM THE UTILITY UNDERGROUND DISTRIBUTION SYSTEM ON ELMWOOD AVENUE TO 1000KVA, PAD MOUNTED TRANSFORMER CURRENTLY OWNED BY RI ENERGY. VOLTAGE IS TRANSFORMED FROM 12,470-VOLTS TO 4,160-VOLTS FOR DISTRIBUTION THROUGHOUT THE PARK. IN ORDER TO INCREASE THE ELECTRICAL CAPACITY FOR THE PARK, THE FOLLOWING WILL HAVE TO BE COMPLETED:

1. THE E.C. SHALL PROVIDE A PRECAST SWITCHGEAR MANHOLE AS SPECIFIED AND RECOMMENDED BY RI ENERGY.
2. THE EXISTING 12KV PRIMARY METERING SHALL BE RELOCATED TO A RI ENERGY SUPPLIED PRIMARY METERING CUBICLE.
3. THE EXISTING 12KV FEEDER SHALL BE INTERRUPTED AND CONNECTED TO THE PRECAST SWITCHGEAR.
4. THE E.C. SHALL REPLACE THE RI ENERGY OWNED EXISTING 1000KVA PAD MOUNTED TRANSFORMER WITH A NEW 1000KVA PAD MOUNTED TRANSFORMER OWNED BY THE PARK. THE NEW TRANSFORMER BE RECONNECTED TO THE EXISTING CUSTOMER OWNED 4KV UNDERGROUND PRIMARY DISTRIBUTION SYSTEM.
5. NEW 12KV CABLES SHALL BE PROVIDED & CONNECTED TO THE NEW PRECAST SWITCHGEAR METERING CABINET AND THE NEW CUSTOMER OWNED 1000KVA TRANSFORMER PROVIDED BY THE E.C.
6. THE E.C. SHALL PROVIDE A 12KV PRIMARY OVERHEAD POLE LINE AND PAD MOUNTED TRANSFORMER FOR THE EDUCATION CENTER & PAVILION. EXACT LOCATIONS OF NEW POLES & ROUTING OF POLE LINE / OVERHEAD WIRING SHALL BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO FINALIZING THE DESIGN AND ANY WORK. REFER TO DRAWING C-6.0 FOR ROUTING OF POLE LINE & OVERHEAD WIRING.
7. THE NEW METERING CABINET SHALL BE CONNECTED TO THE NEW 12KV OVERHEAD FEEDER TO THE EDUCATION CENTER & PAVILION.

12kV SCHEMATIC ONE-LINE DIAGRAM
NOT TO SCALE



SITE PLAN NOTES:

1. E.C. SHALL COORDINATE EXACT ROUTE OF UNDERGROUND ELECTRICAL RACEWAYS IN FIELD & WITH SITE CONTRACTOR PRIOR TO INSTALLATION. RECORD ACTUAL ROUTING ON AS-BUILT DRAWINGS.
2. E.C. SHALL CONTACT DIG-SAFE PRIOR TO ANY WORK INVOLVING THE SITE ELECTRICAL WORK.
3. E.C. SHALL BE RESPONSIBLE FOR PROVIDING AND ARRANGING FOR ALL TRENCHING, OPENINGS AND CUTTING REQUIRED FOR ELECTRICAL WORK AS REQUIRED (i.e.: ROADS, CURBS, PAVEMENT, WALLS, DUCTBANKS, CONCRETE PADS, ETC.) AND FOR BACKFILLING, PATCHING, REPLACING ANY & ALL SITE ELEMENTS DISTURBED BY THIS WORK. COORDINATE WITH OWNER, ARCHITECT, G.C. AND SITE CONTRACTOR AS NECESSARY TO PROVIDE MINIMUM STANDARD OF SUCH WORKED DESCRIBED HEREIN. (TYPICAL)
4. ALL SITE LIGHTING CIRCUITS SHALL BE 2#8 + 1#8GND IN 1" AND BE CONTINUOUS THROUGHOUT THE ENTIRE CIRCUIT FOR A MAXIMUM CIRCUIT LENGTH OF 400'-0". IF ANY SINGLE CIRCUIT EXCEEDS 400'-0" THE CIRCUIT CONDUCTORS SHALL BE INCREASED TO #6-AWG FOR A MAXIMUM LENGTH OF 650'-0". (TYPICAL)

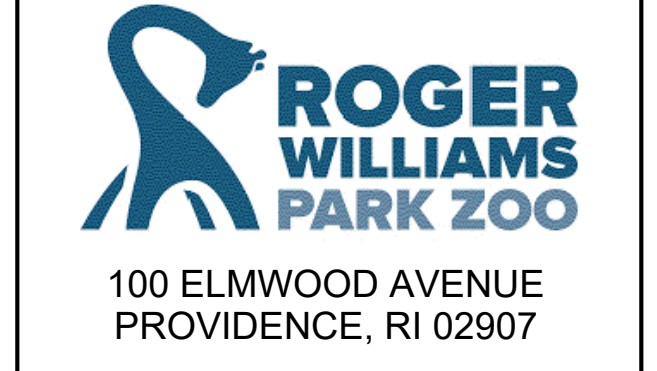
1 SITE PLAN - ELECTRICAL
1" = 20'-0"



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Revision Schedule	
Revision Number	Revision Date

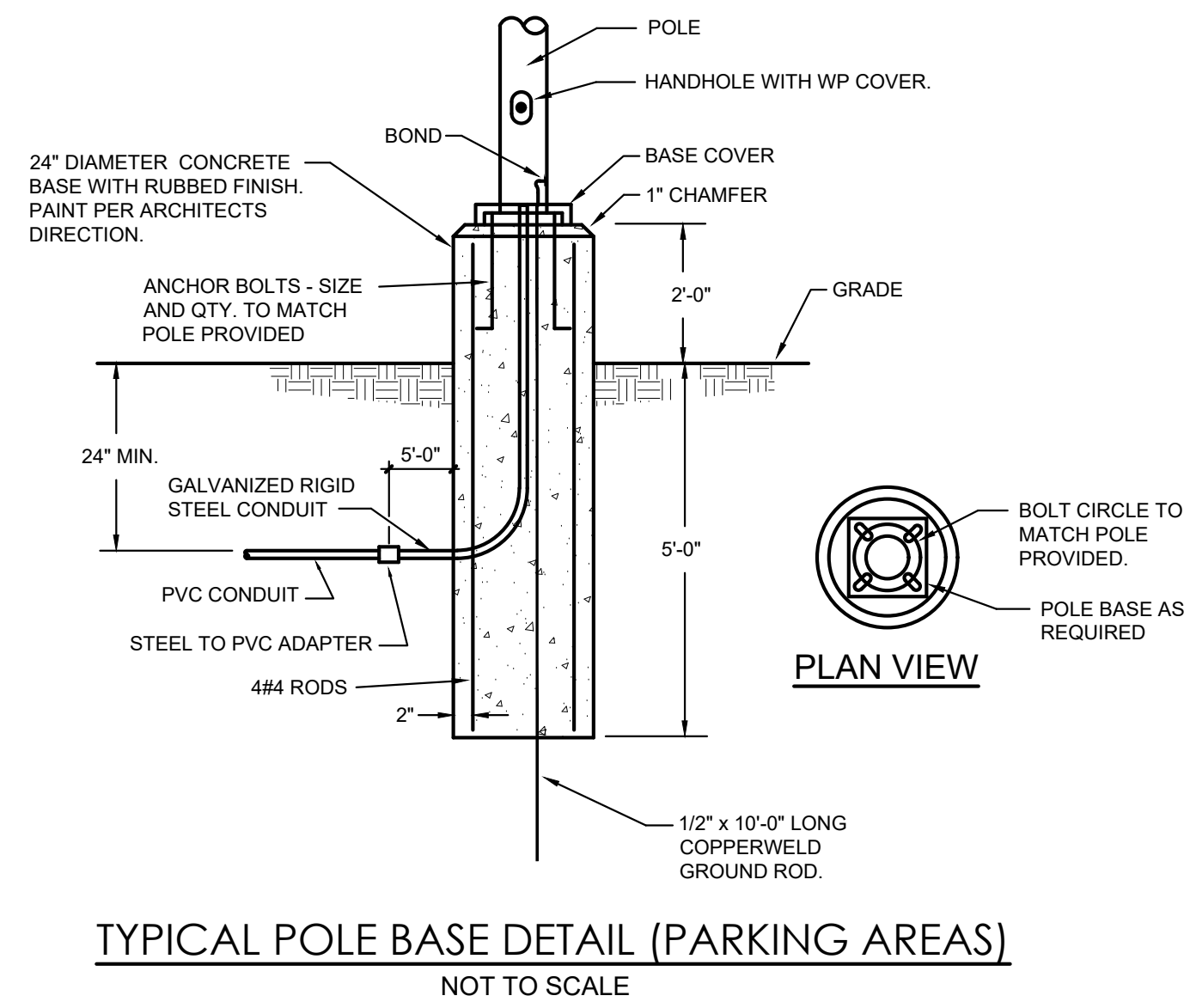
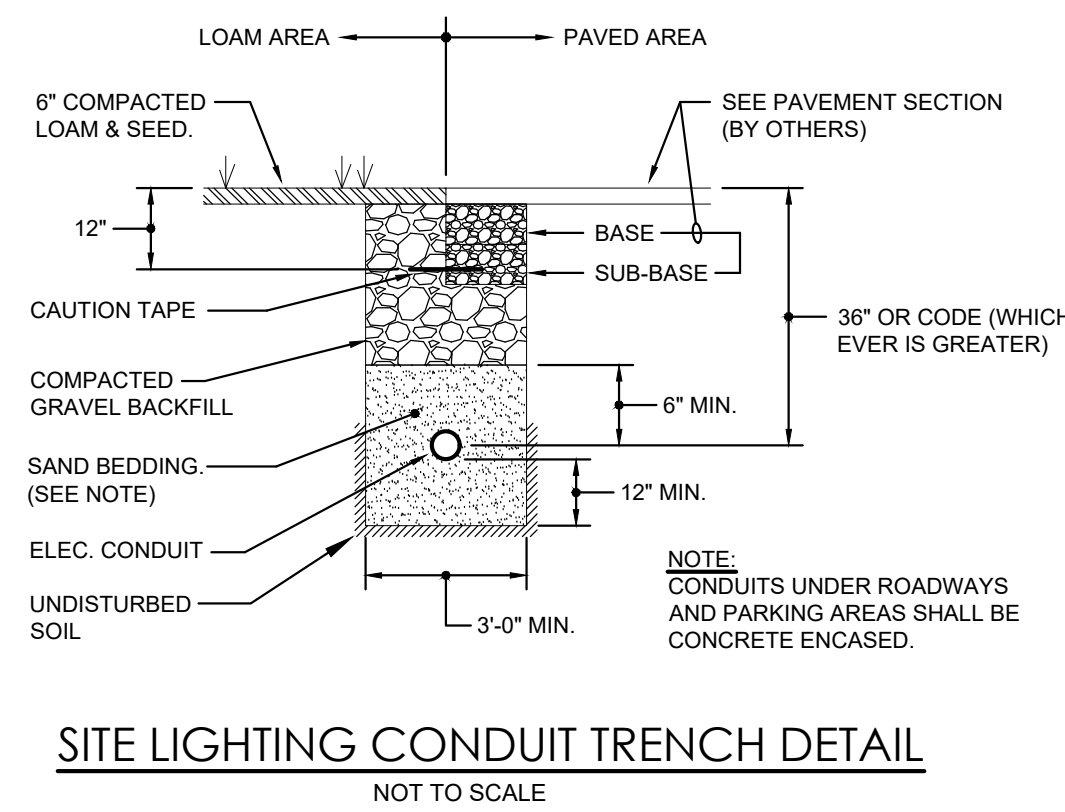
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05/01/2024

SHEET TITLE
ELECTRICAL SITE PLAN

DRAWN BY: SPC JOB NUMBER: 18050
CHECKED BY: RWD DATE: 04/18/2024

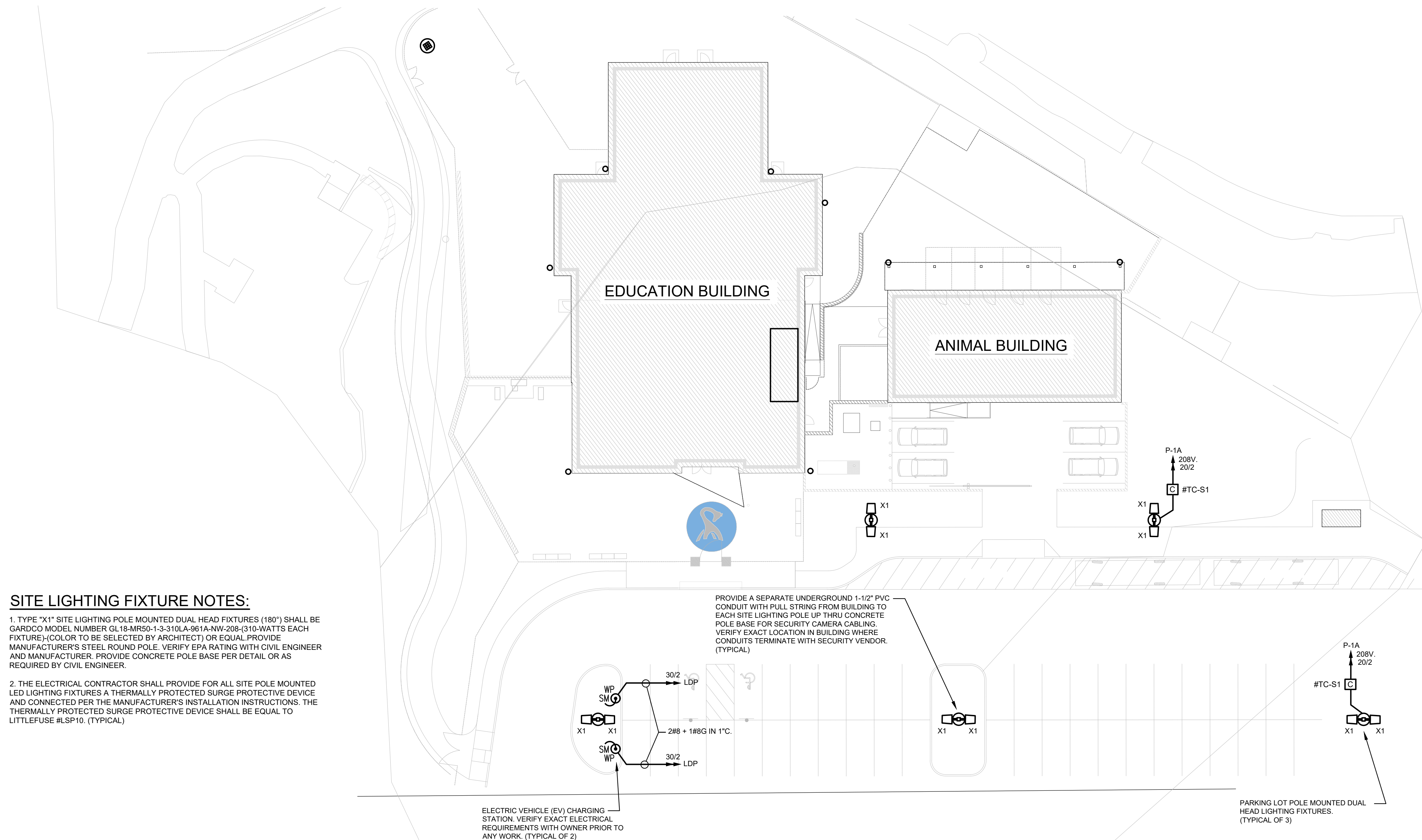
ES1.1

SHEET: OF:



TYPICAL POLE BASE NOTES:

1. PROVIDE POLES AS SPECIFIED IN SCHEDULE ON DRAWINGS. PROVIDE POLE WITH HANDHOLE AND REMOVABLE WEATHERPROOF COVER.
2. PROVIDE ANCHOR BOLTS: AS RECOMMENDED BY POLE MANUFACTURER. PROVIDE TEMPLATE, FLAT WASHERS, LOCK WASHERS, AND HEX NUTS FOR EACH POLE.
3. PROVIDE FOUNDATIONS FOR POLES, BOLLARDS, AND GROUND-MOUNTED FLOOD AND ACCENT LIGHTING. CONSTRUCTED FROM REINFORCED CONCRETE IN SIZES AS SHOWN ON DRAWINGS AND TO MEET THE MINIMUM STRUCTURAL REQUIREMENTS OF IBC 1807.3 EMBEDDED POSTS AND POLES. PLACE THE ANCHOR BOLTS IN POLE BASES SO THAT THE LUMINAIRE WILL BE ORIENTED PERPENDICULAR TO THE CURB/STREET/SIDEWALK/PARKING LOT OR AS INDICATED ON THE PLANS. ALSO, REFER TO MANUFACTURERS PHOTOMETRICS PLAN FOR CORRECT ORIENTATION OF LUMINAIRE PRIOR TO ANY WORK.
4. PROVIDE A CONCRETE-ENCASED ELECTRODE (UFER) GROUNDING SYSTEM FOR GROUNDING THE FOUNDATION, LUMINAIRE, AND POLE:
 - a. PROVIDE TWENTY-FIVE (25) FEET OF #6 BARE STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR.
 - b. EXTEND THREE (3) FEET OF THE GROUNDING ELECTRODE CONDUCTOR OUT THE TOP OF THE FOUNDATION FOR CONNECTION TO THE LUMINAIRE/POLE.
 - c. CLAMP THE GROUNDING ELECTRODE CONDUCTOR TO THE TOP OF THE REBAR CAGE. USE A CLAMP RATED FOR SUCH USE SUCH AS AN ERICO EK16 OR SIMILAR.
 - d. SPIRAL A MINIMUM OF TEN (10) FEET OF THE GROUNDING ELECTRODE CONDUCTOR AROUND THE OUTSIDE OF THE REBAR CAGE.
 - e. LOOP THE REMAINING CONDUCTOR AROUND THE REBAR CAGE AT THE BOTTOM OF THE FOUNDATION IN DIRECT CONTACT WITH EARTH.
5. THE EXPOSED SURFACE AREA OF THE FOUNDATION SHALL HAVE THE FORMS REMOVED AND THE CONCRETE RUBBED OUT TO A SMOOTH FINISH. PAINT ALL EXPOSED SURFACE AREA PER THE ARCHITECT'S AND OWNER'S DIRECTION.
6. INSTALL IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.
7. UNDERGROUND AND EXTERIOR WIRE SHALL BE TYPE XHHW-2.
8. INSTALL ALL ANCHOR BOLTS AND HANDHOLE FASTENERS WITH ANTI-SEIZE COMPOUND.
9. BOND EACH LUMINAIRE, EACH METAL ACCESSORY, THE GROUND ROD AND THE POLE TO THE BRANCH CIRCUIT EQUIPMENT GROUND CONDUCTOR WITH A SEPARATE GROUND WIRE SIZED PER NEC OR AS SHOWN ON THE DRAWINGS.



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SHEET TITLE

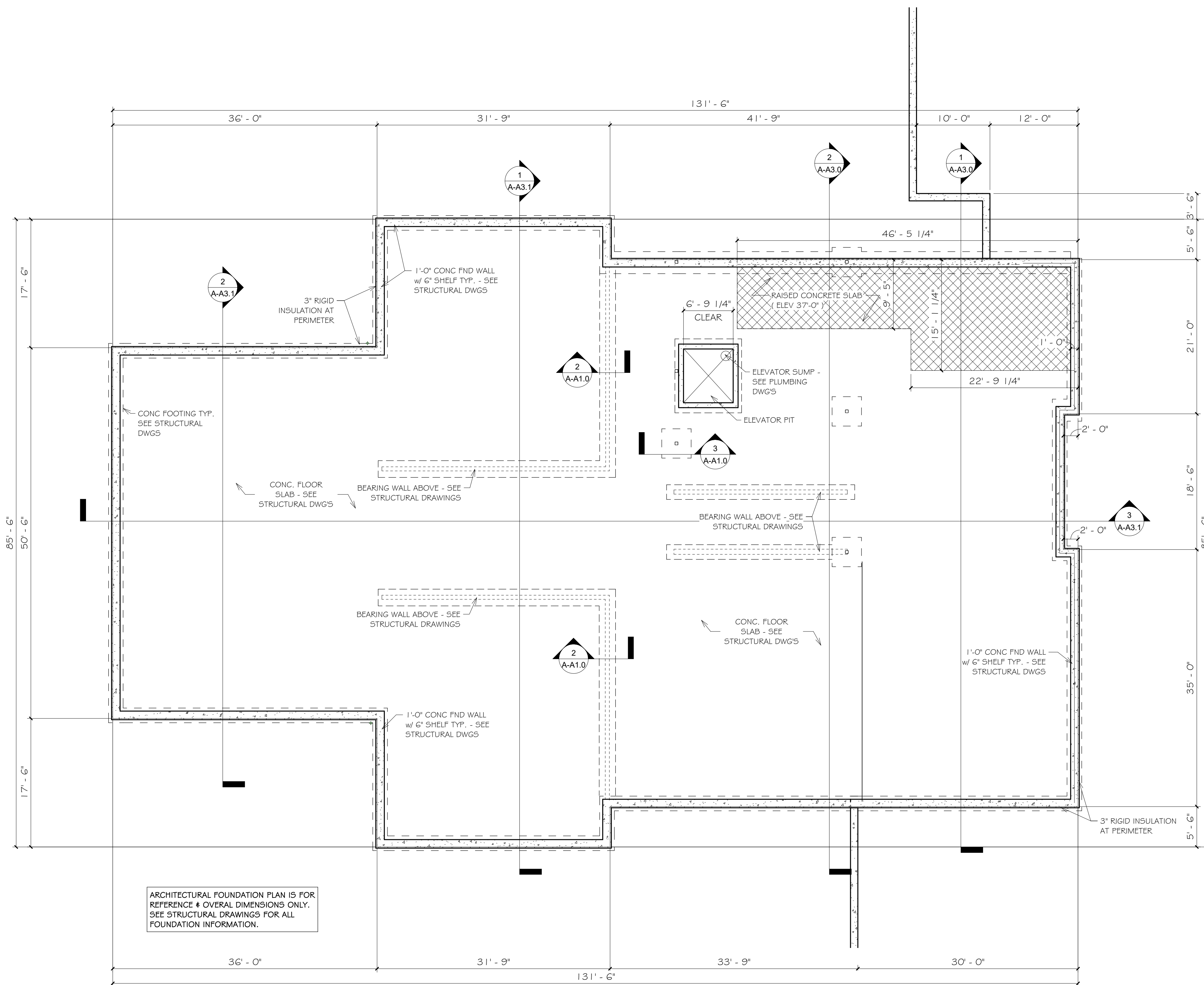
**ELECTRICAL
SITE PLAN -
LIGHTING**

DRAWN BY: SPC JOB NUMBER: 18050

CHECKED BY: RWD DATE: 04/18/2024

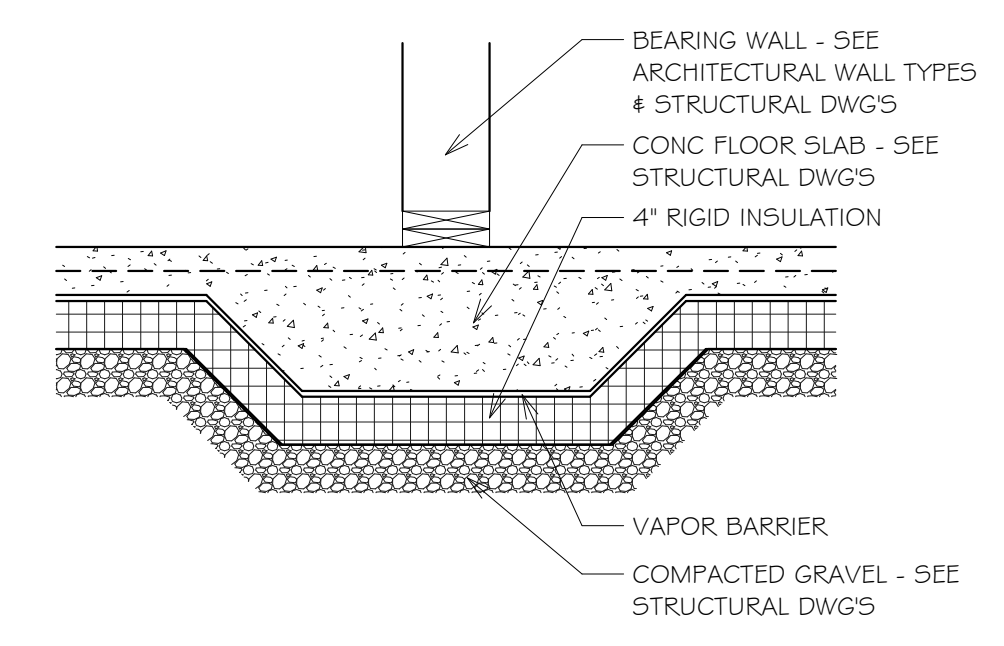
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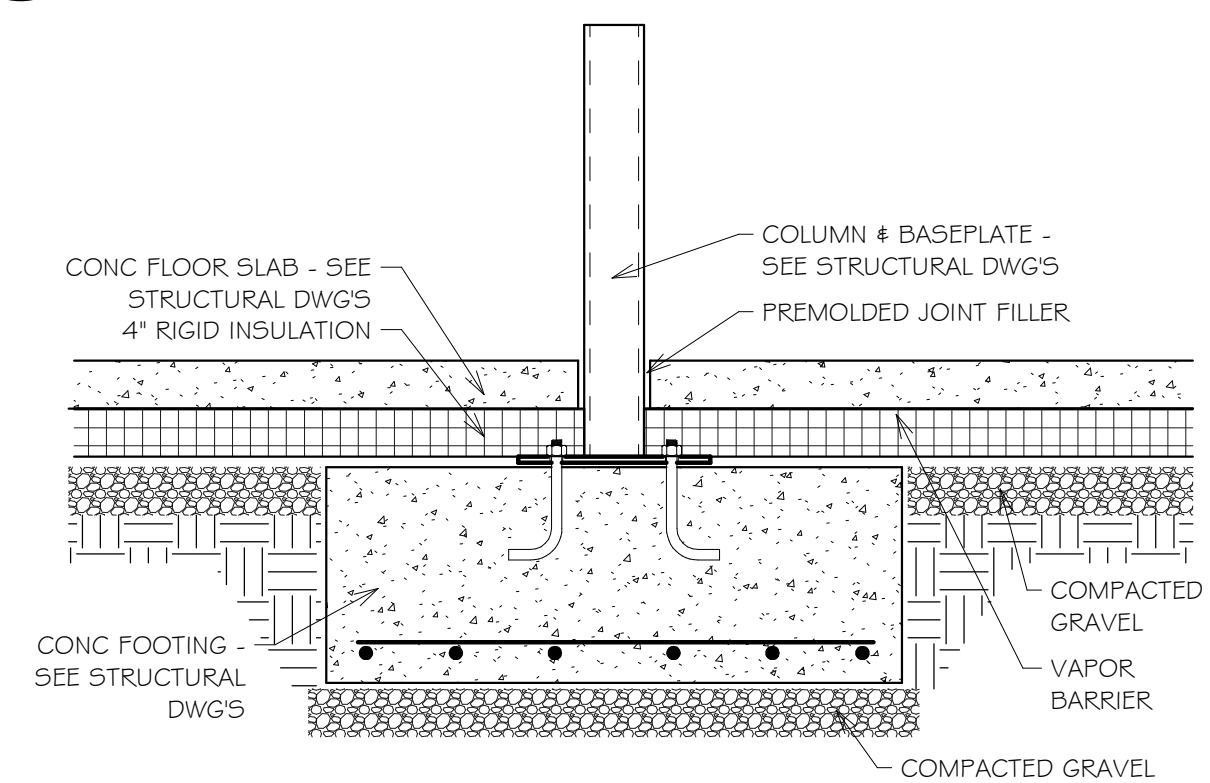


ARCHITECTURAL FOUNDATION PLAN IS FOR REFERENCE & OVERALL DIMENSIONS ONLY. SEE STRUCTURAL DRAWINGS FOR ALL FOUNDATION INFORMATION.

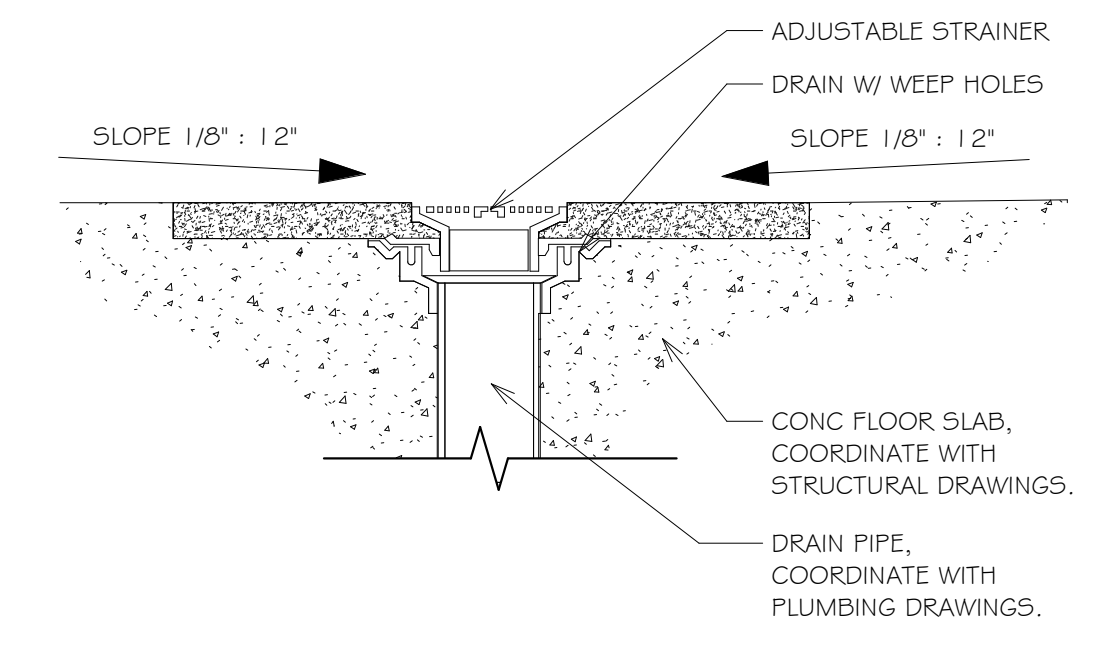
1
A-A1.0 FOUNDATION PLAN
1/8" = 1'-0"



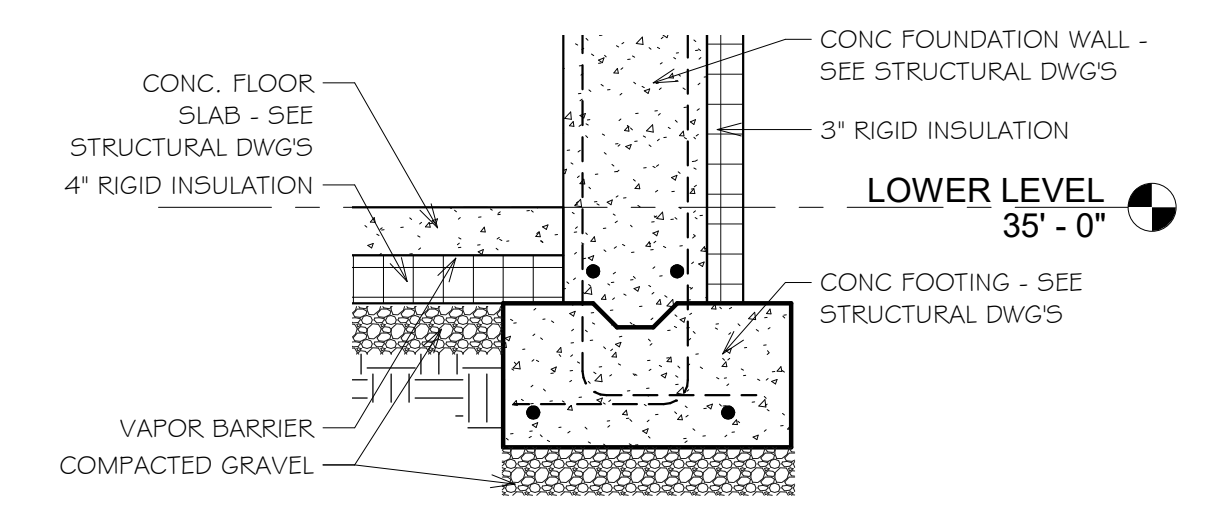
2
A-A1.0 THICKEND SLAB DETAIL
3/4" = 1'-0"



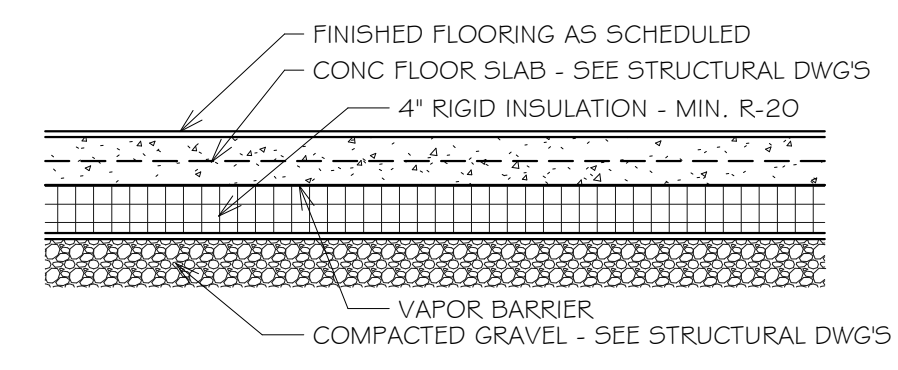
3
A-A1.0 COLUMN FOOTING DETAIL
3/4" = 1'-0"



4
A-A1.0 TYPICAL FLOOR DRAIN DETAIL
3" = 1'-0"



5
A-A1.0 TYPICAL FOOTING DETAIL
3/4" = 1'-0"



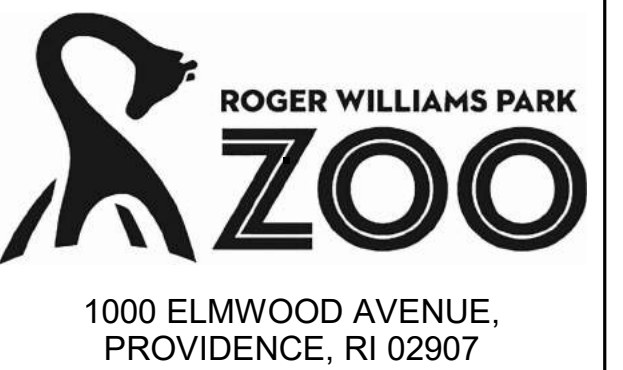
6
A-A1.0 UNDERSLAB INSULATION DETAIL
3/4" = 1'-0"



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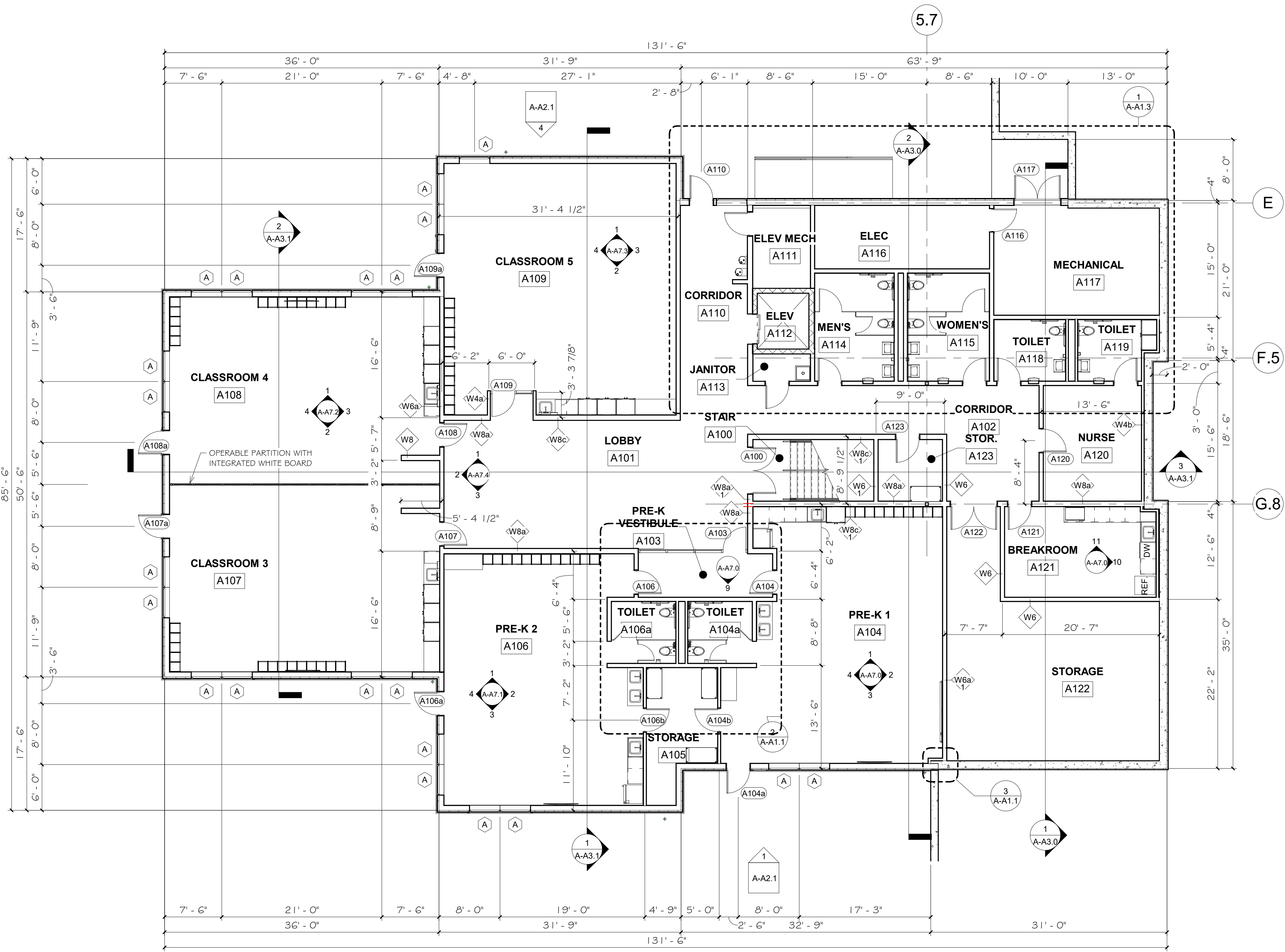
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SHEET TITLE
FOUNDATION PLAN

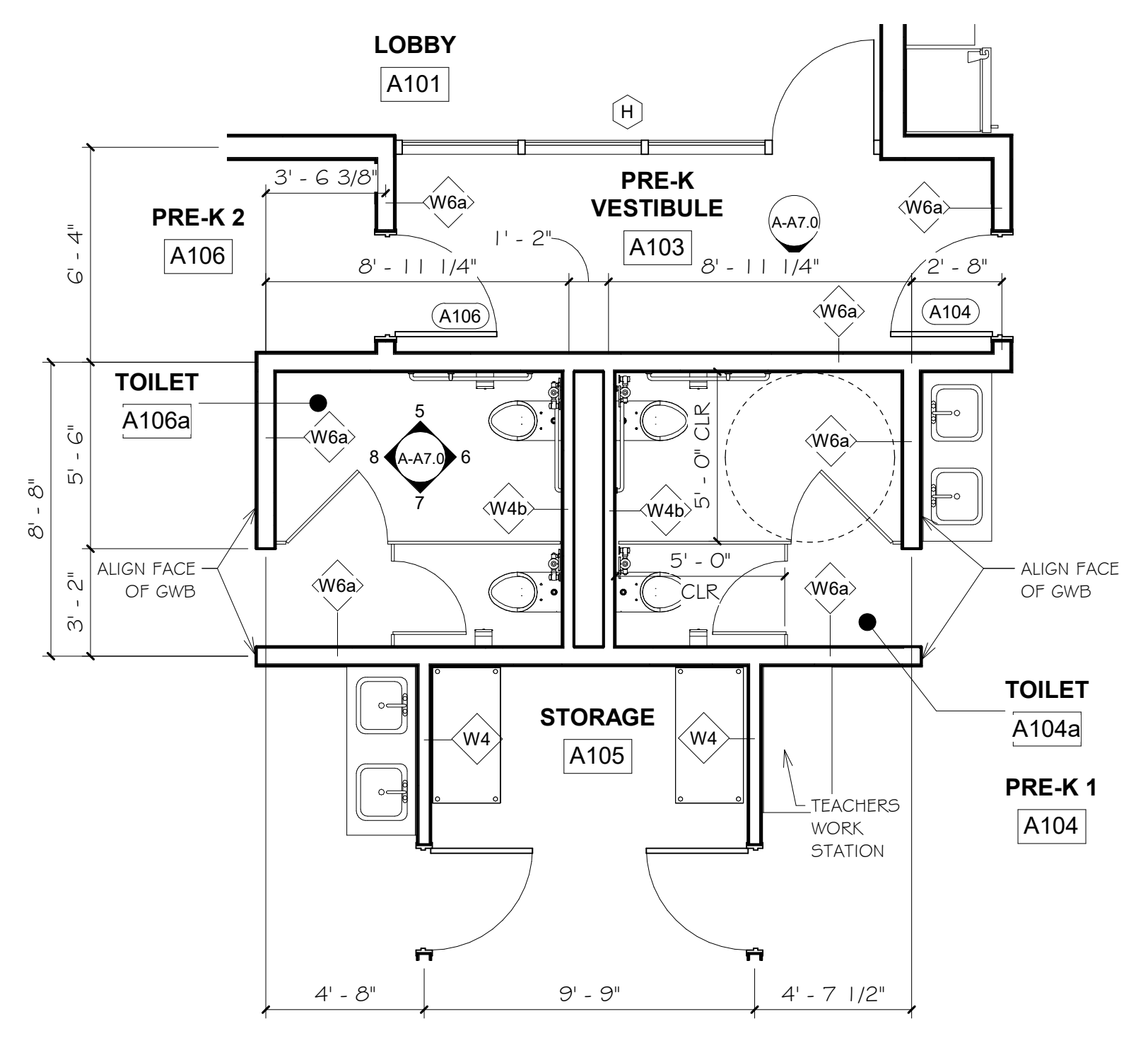
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A-A1.0

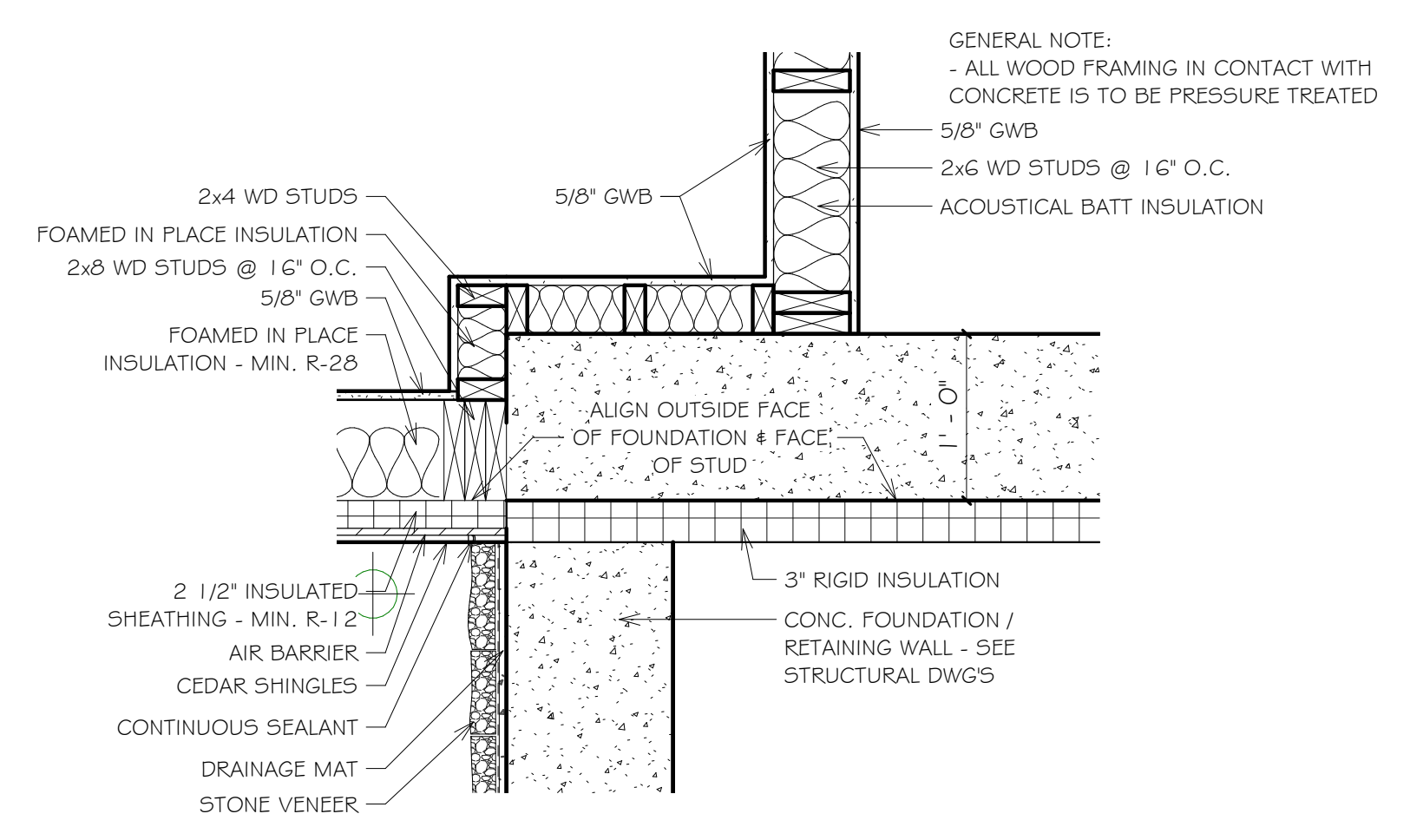
SHEET: OF:



1
A-A1.1
LOWER FLOOR PLAN
1/8" = 1'-0"



2
A-A1.1
ENLARGED LOWER LEVEL PLAN
1/4" = 1'-0"



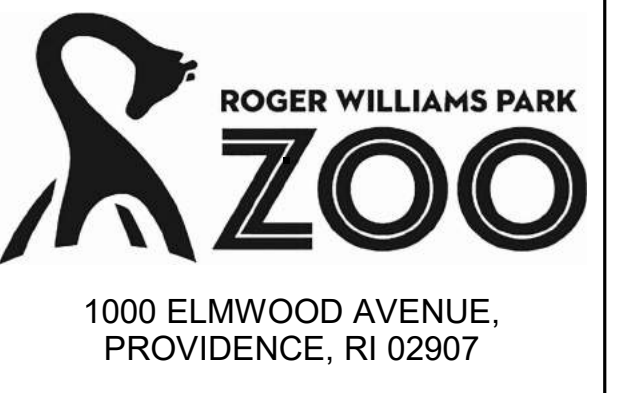
3
A-A1.1
PLAN DETAIL
1" = 1'-0"



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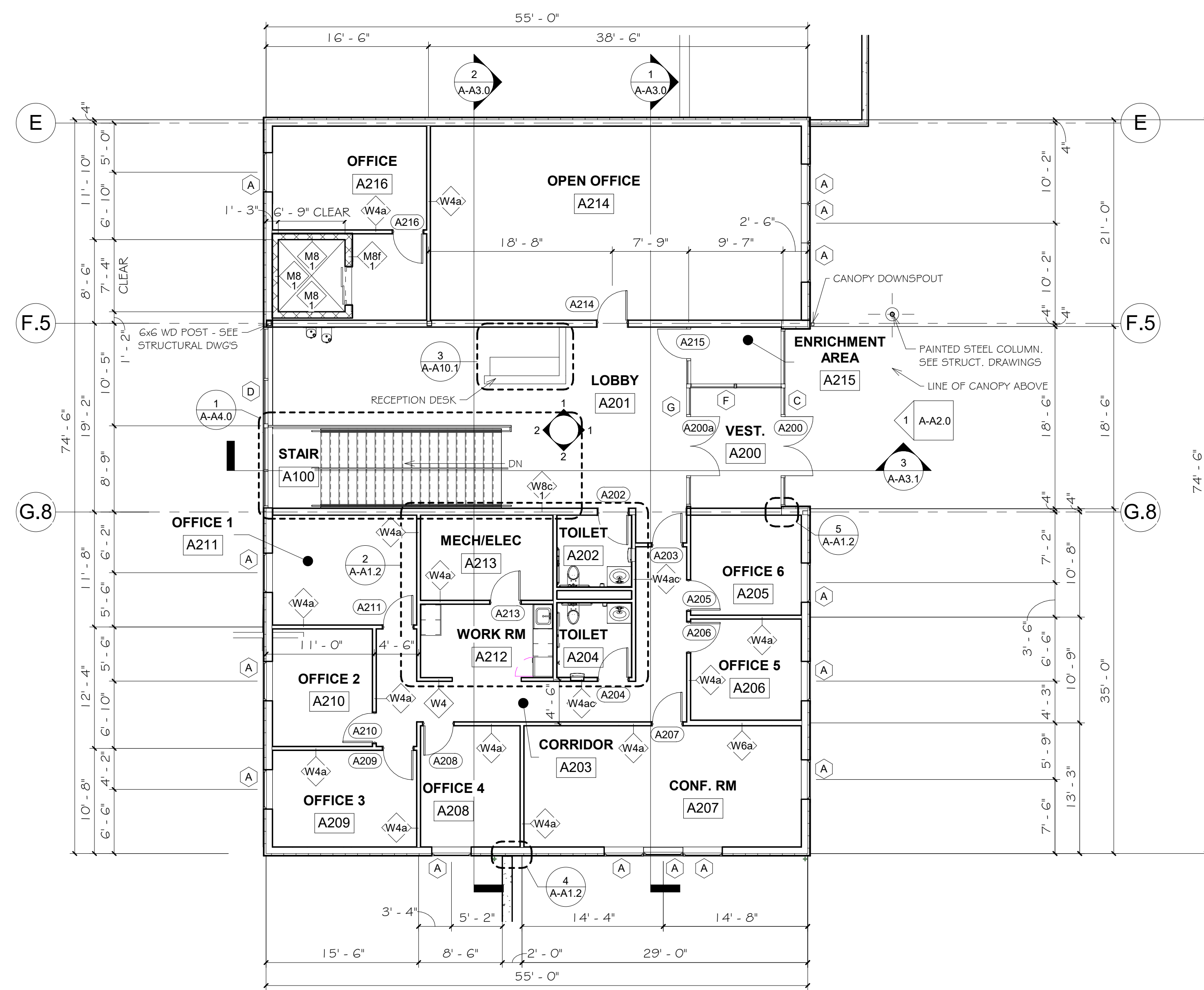
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SHEET TITLE
LOWER LEVEL FLOOR PLAN

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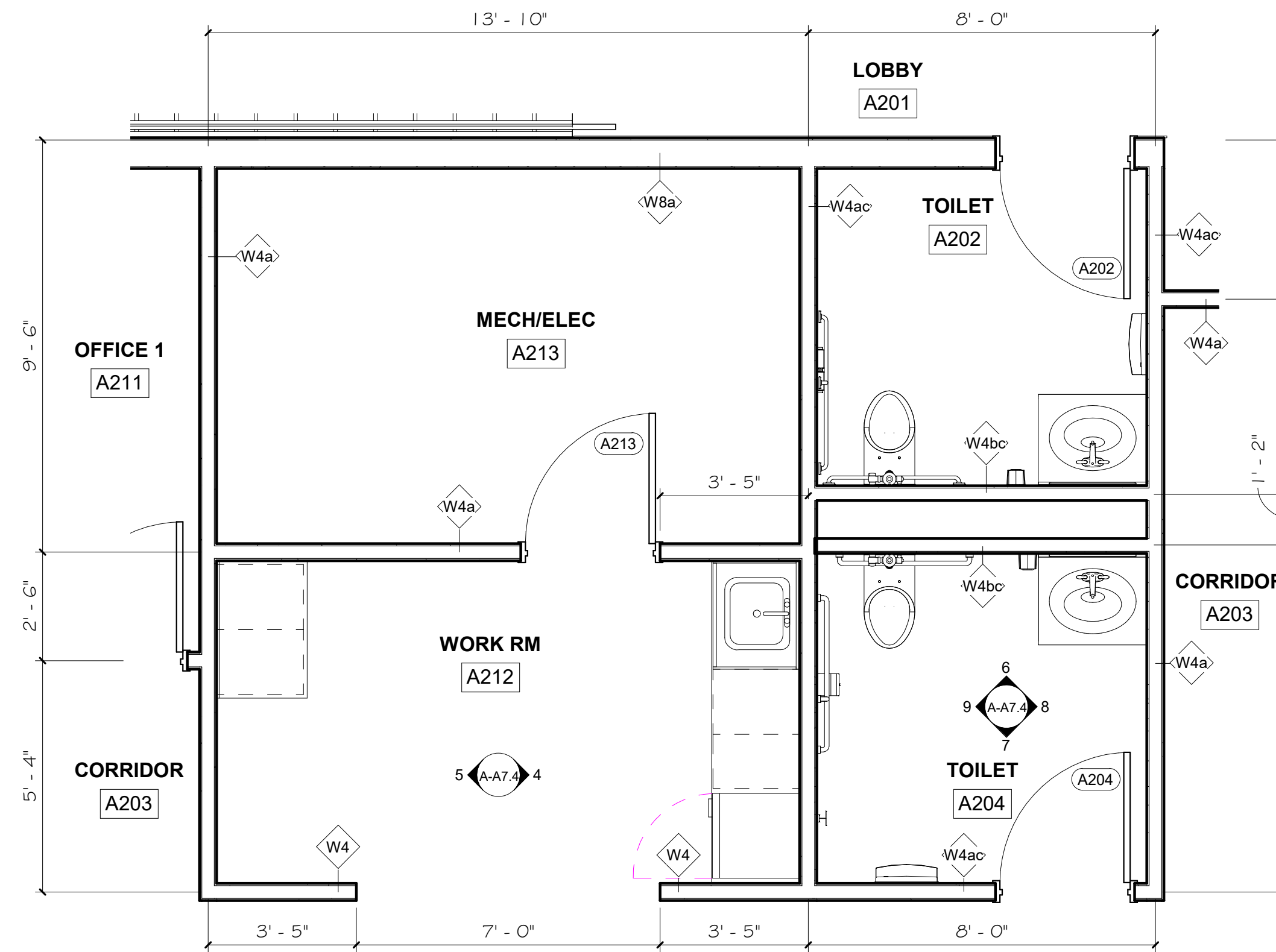
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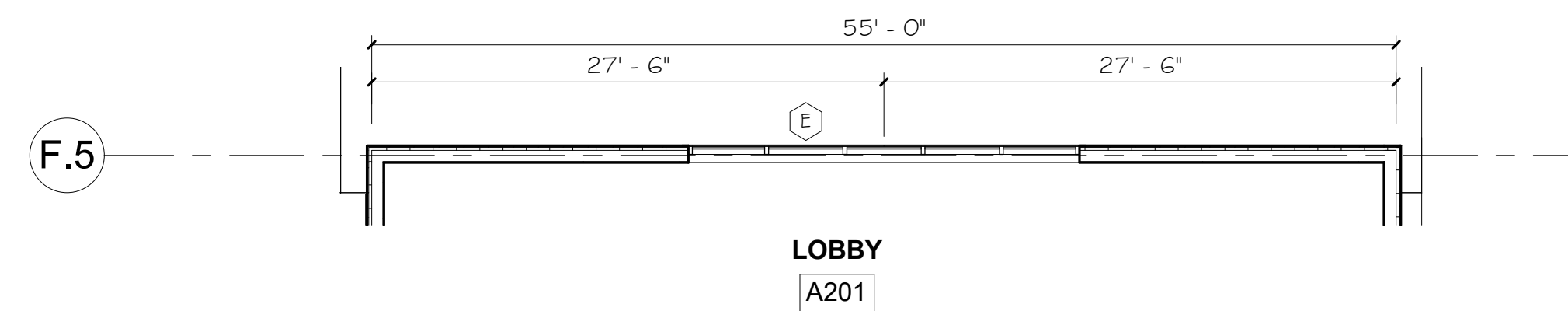
1 UPPER LEVEL FLOOR PLAN

1/8" = 1'-0"



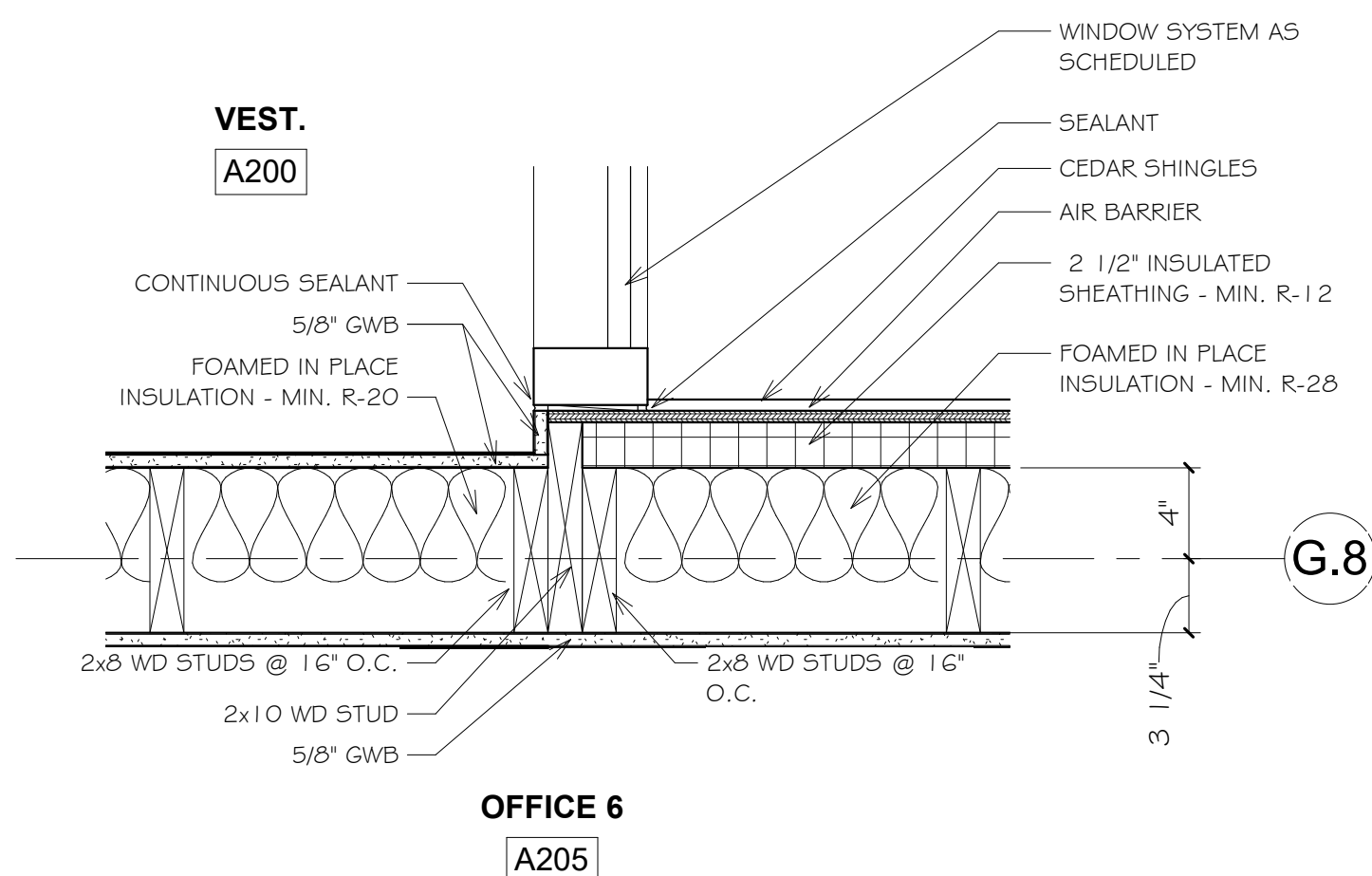
2 PLAN - TOILET A203

3/8" = 1'-0"



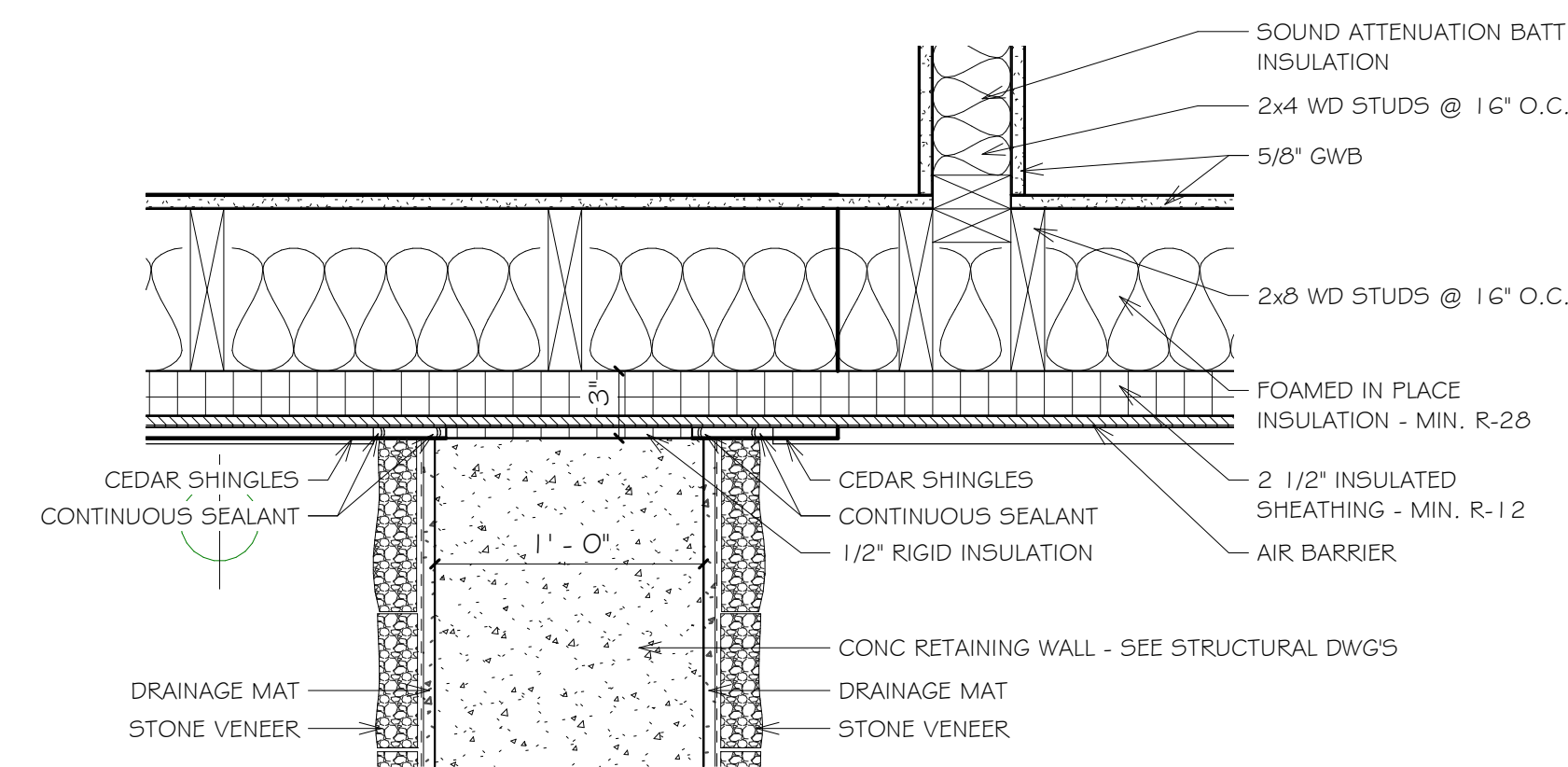
3 FLOOR PLAN - CLERESTORY WINDOWS

1/8" = 1'-0"



5 PLAN DETAIL

1 1/2" = 1'-0"



4 PLAN DETAIL

1 1/2" = 1'-0"



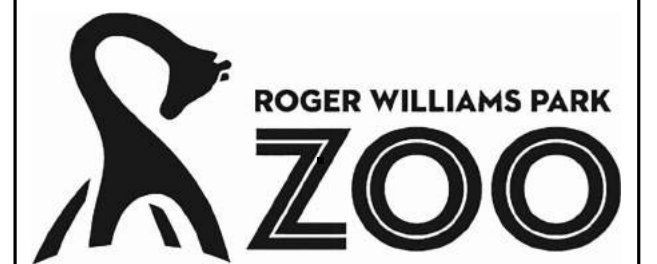
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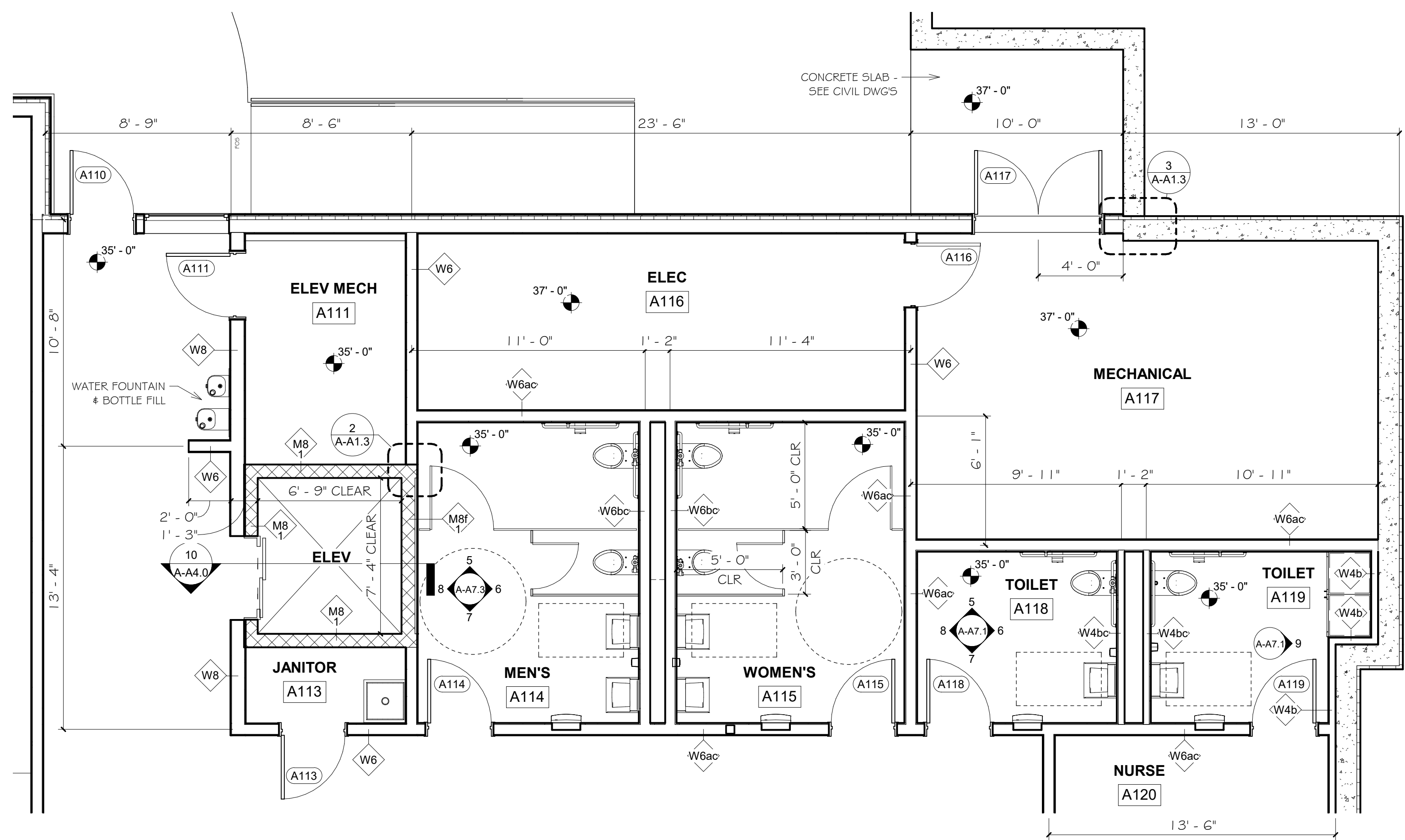
SHEET TITLE
UPPER LEVEL
FLOOR PLAN

DRAWN BY: FK, KR JOB NUMBER: 18050

CHECKED BY: MS DATE: 05/01/2024

A-A1.2

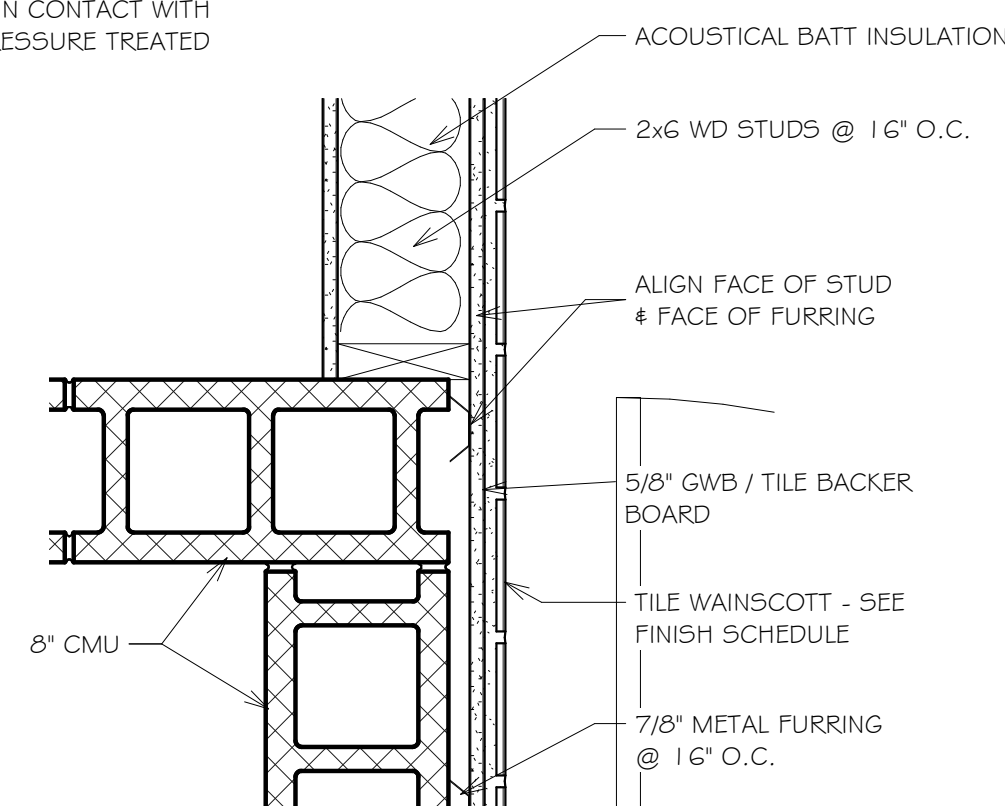
SHEET: OF:



1 ENLARGED LOWER LEVEL PLAN

1/4" = 1'-0"

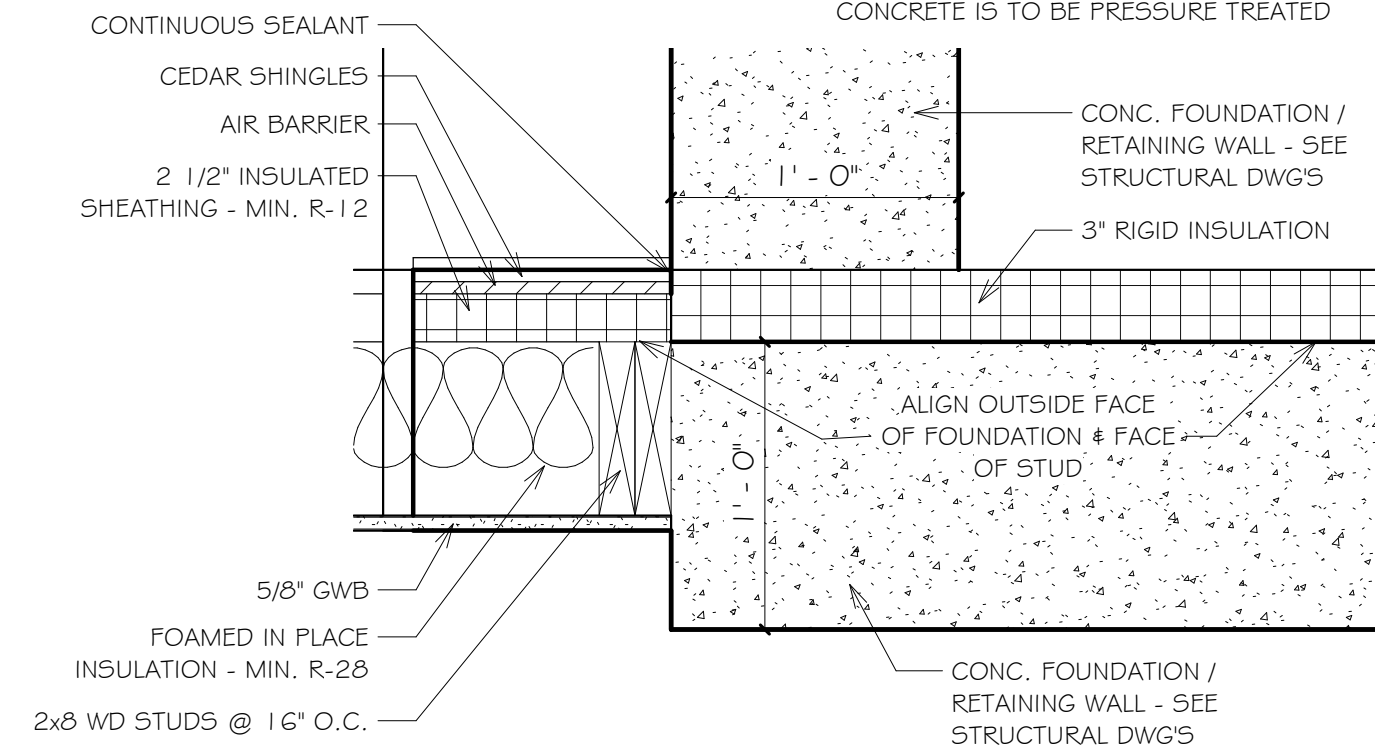
GENERAL NOTE:
- ALL WOOD FRAMING IN CONTACT WITH MASONRY IS TO BE PRESSURE TREATED



2 PLAN DETAIL

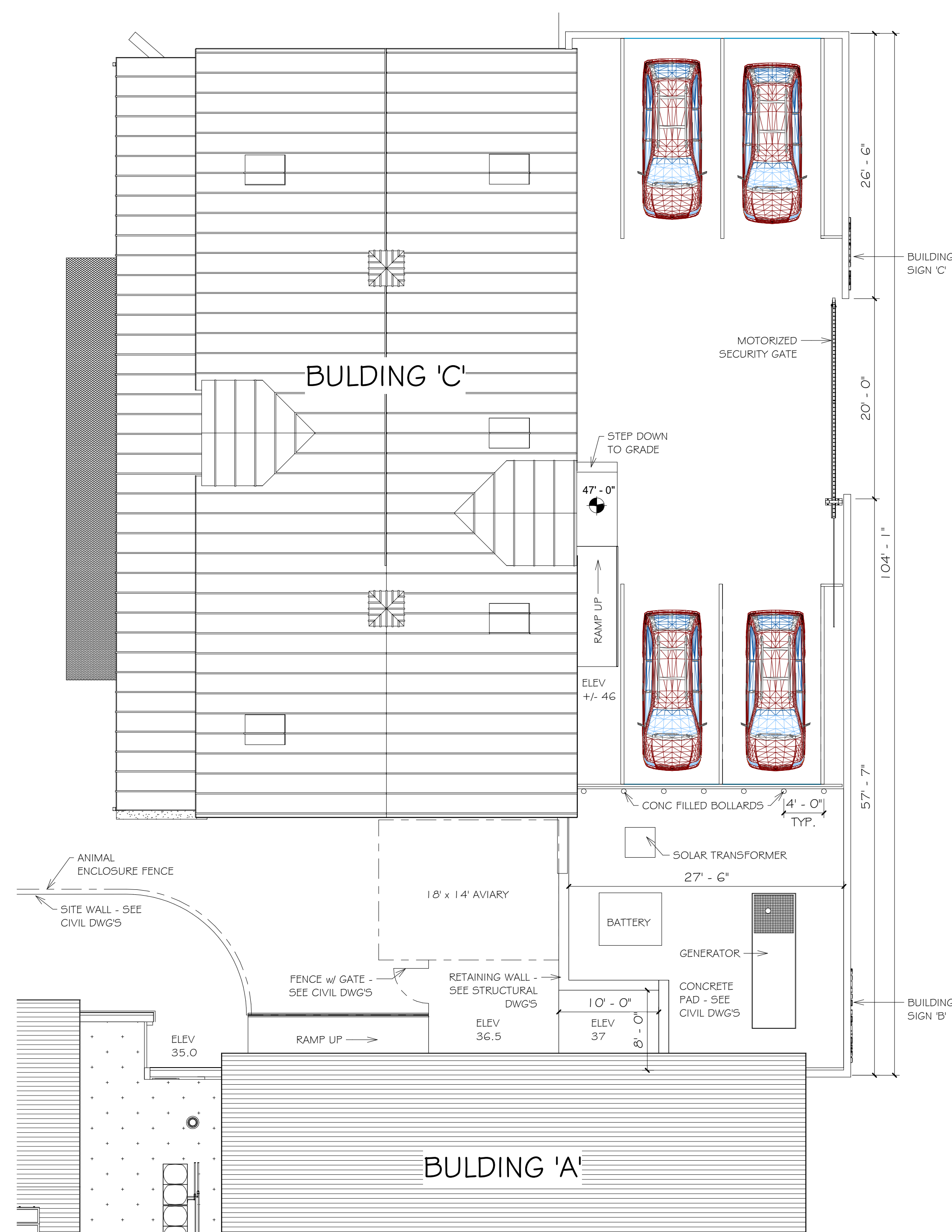
1 1/2" = 1'-0"

GENERAL NOTE:
- ALL WOOD FRAMING IN CONTACT WITH CONCRETE IS TO BE PRESSURE TREATED



3 PLAN DETAIL

1 1/2" = 1'-0"



4 SERVICE YARD PLAN

1/8" = 1'-0"



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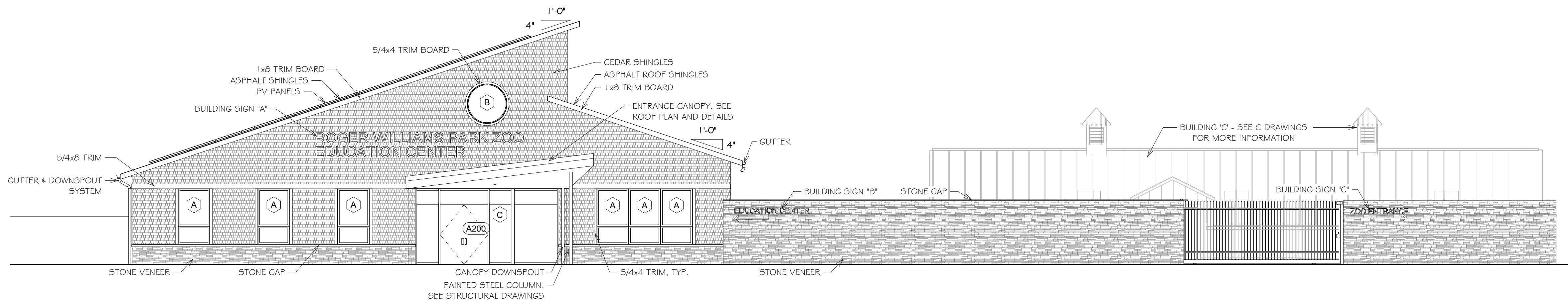
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ENLARGED
PLANS & DETAILS

DRAWN BY: Author JOB NUMBER: 18050

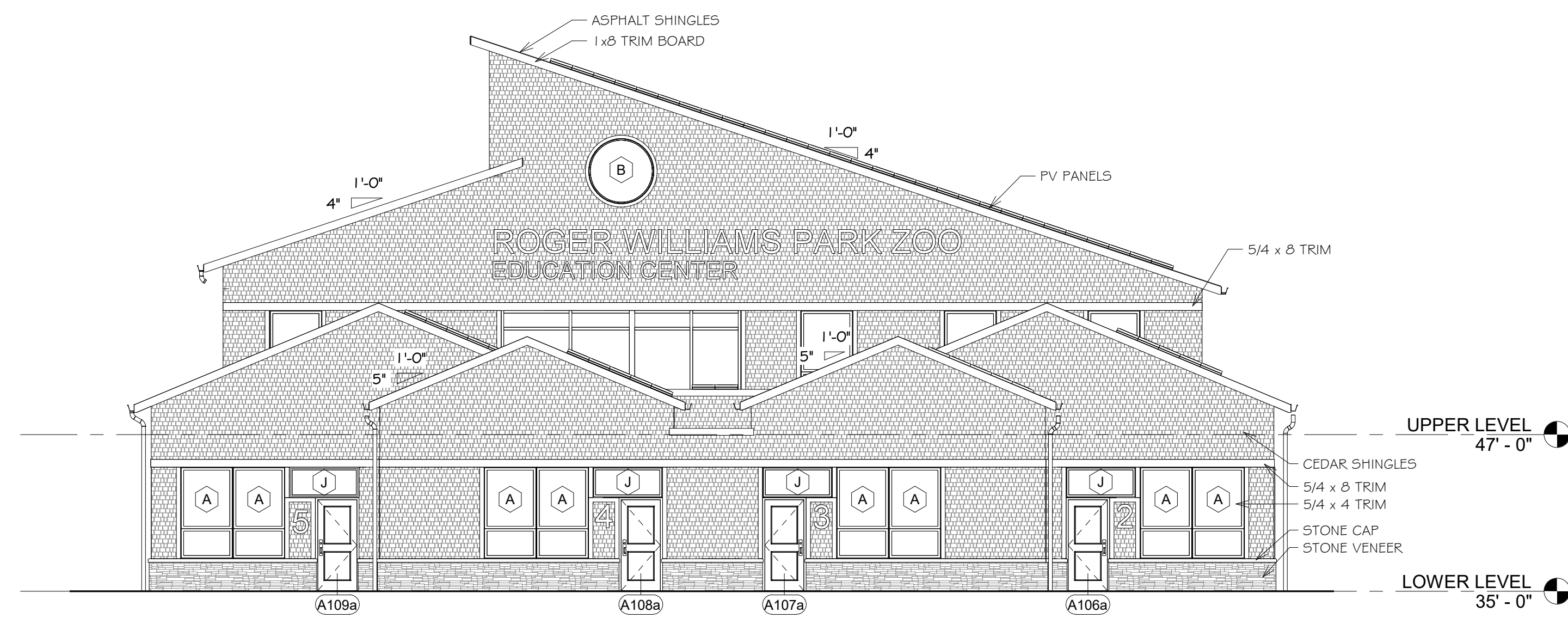
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A-A1.3

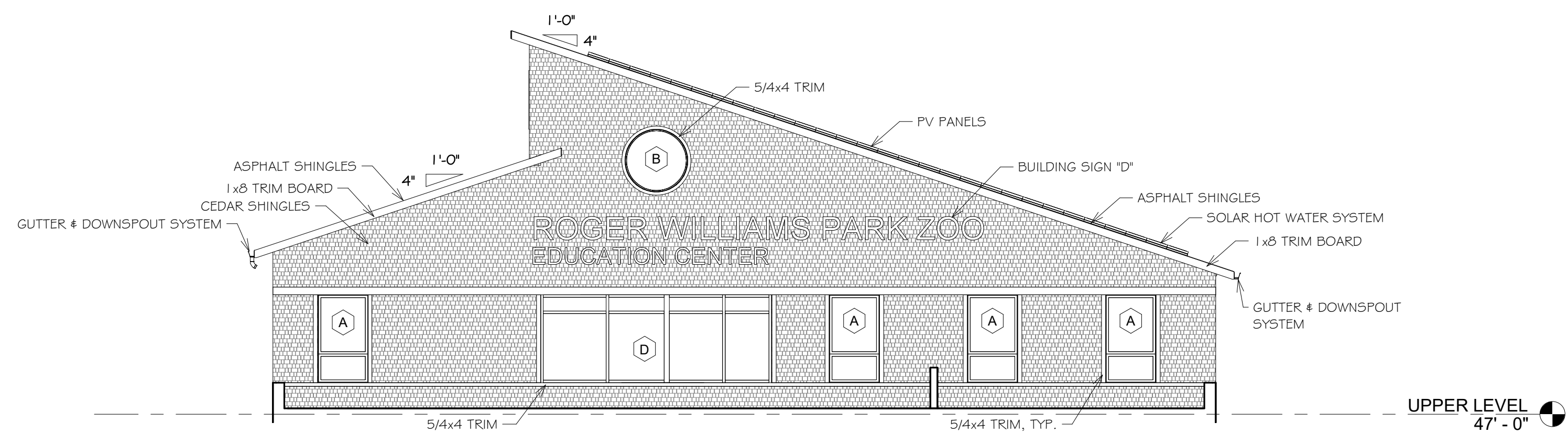
SHEET: OF:



1 EAST ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"



3 PARTIAL WEST ELEVATION
1/8" = 1'-0"



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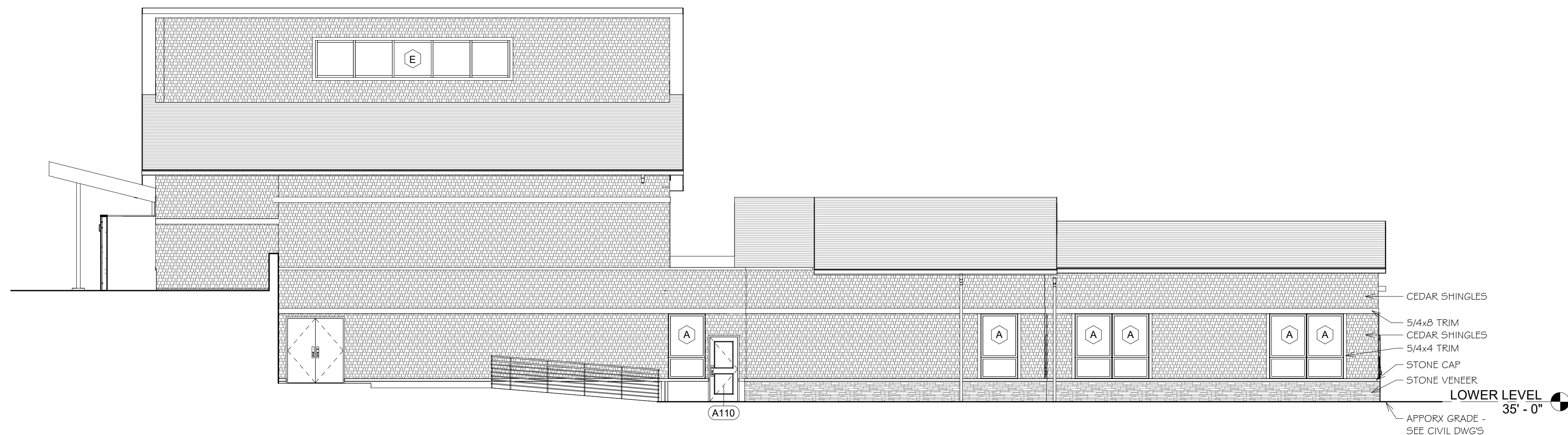
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SHEET TITLE
EXTERIOR ELEVATIONS

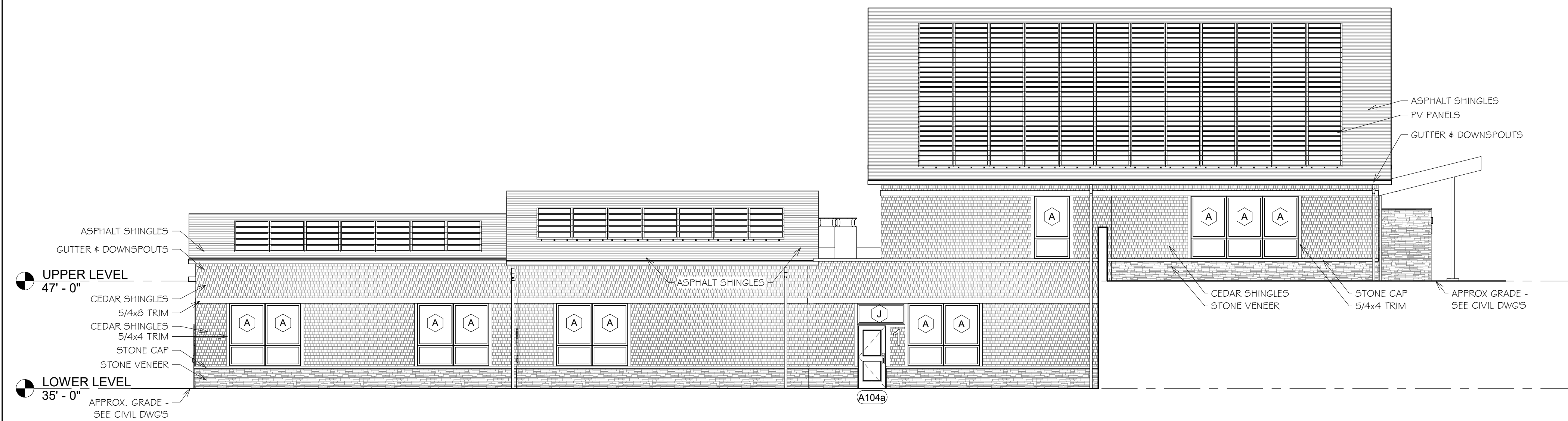
DRAWN BY: FK, KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A2.0

SHEET: OF:



4
A-A2.1
NEW - NORTH ELEVATION
1/8" = 1'-0"



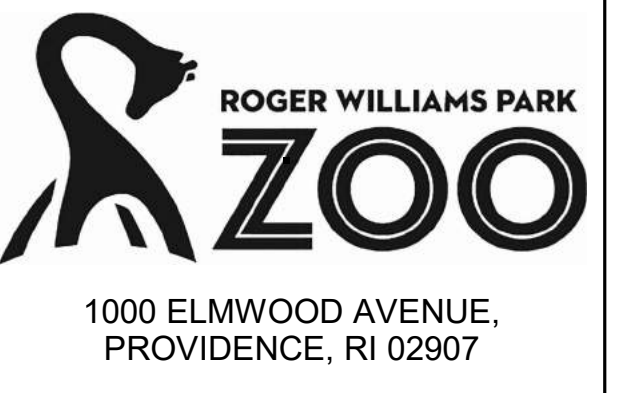
1
A-A2.1
SOUTH ELEVATION
1/8" = 1'-0"



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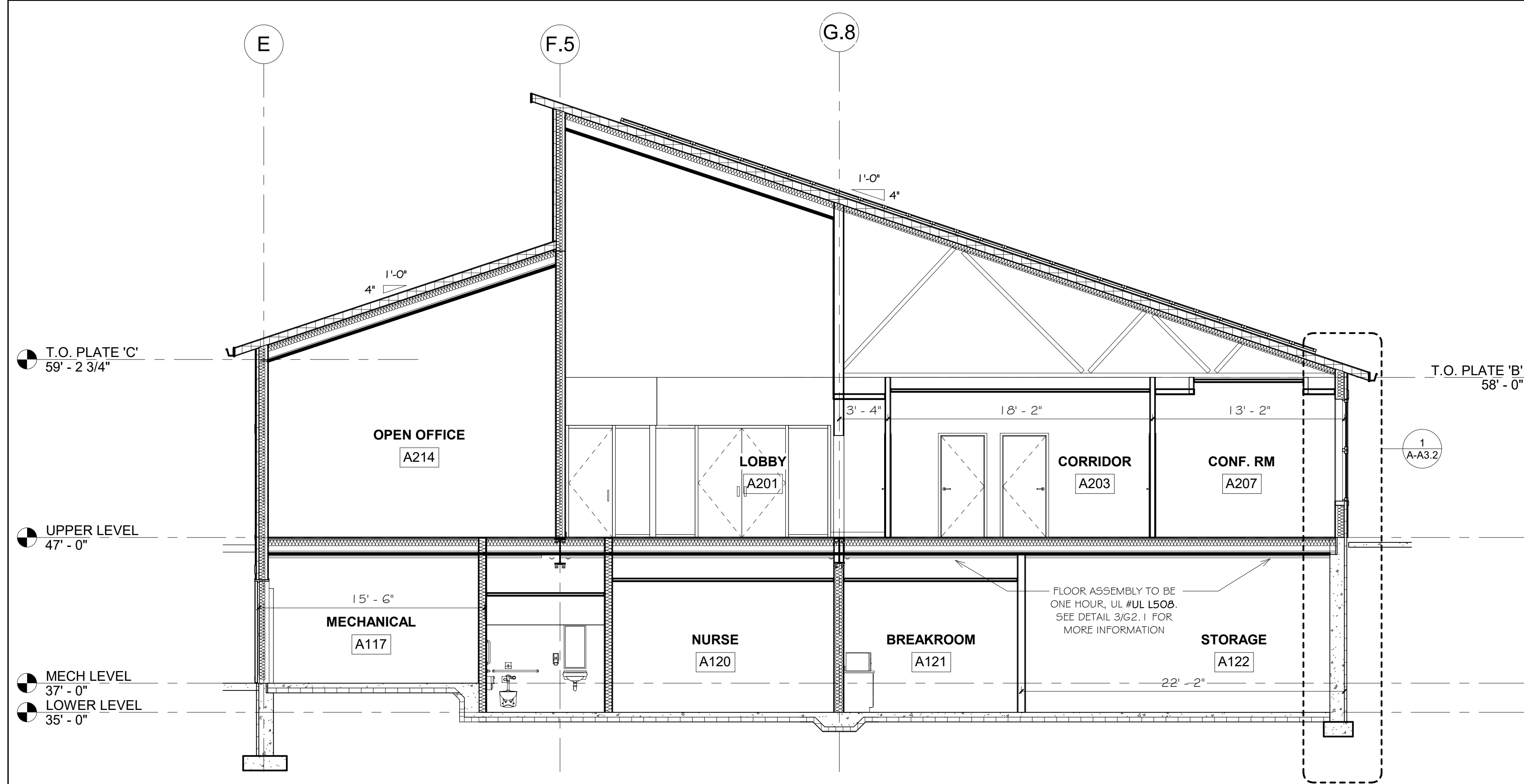
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EXTERIOR ELEVATIONS

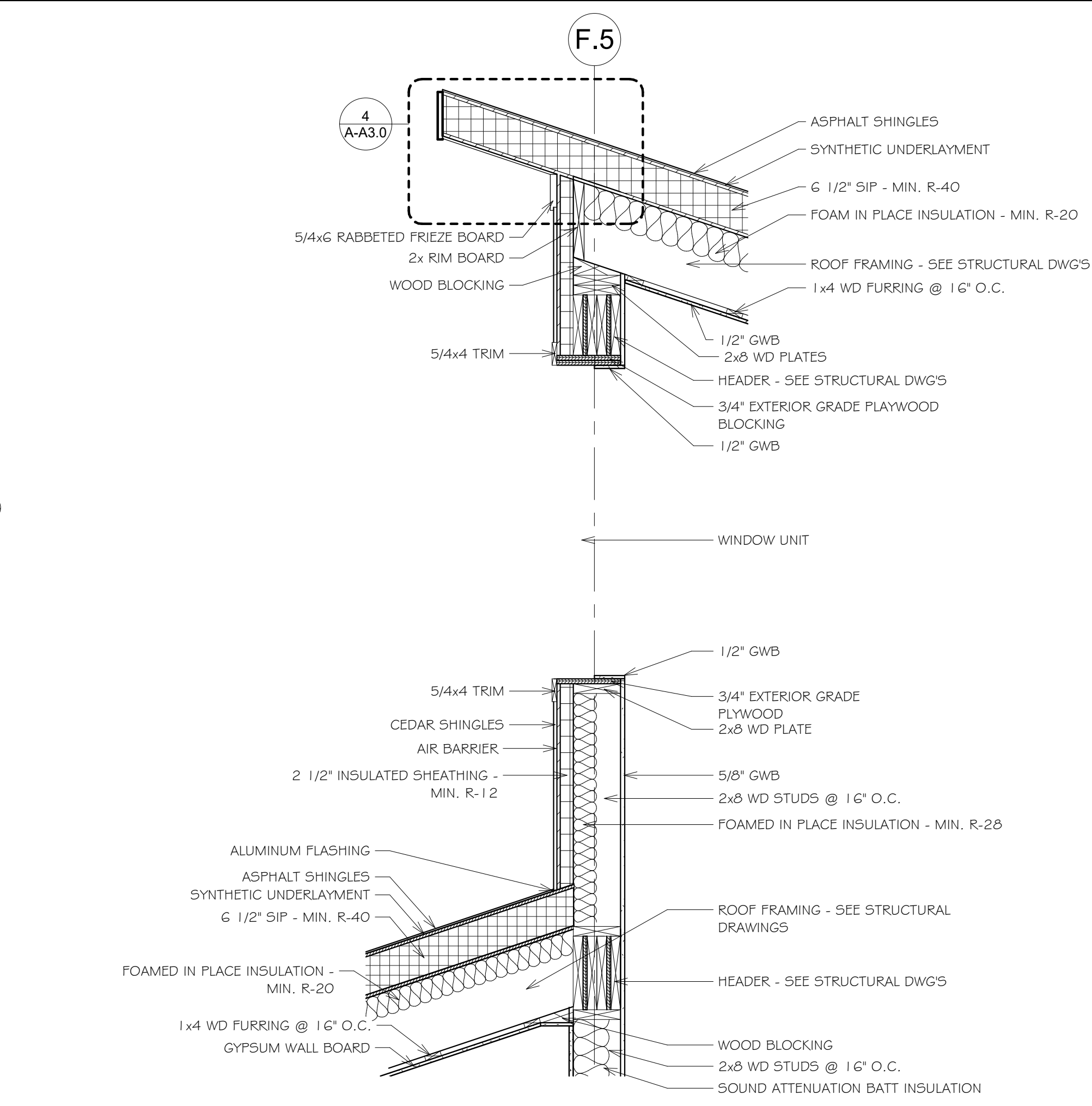
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CHECKED BY: MS	DATE: 05/01/2024

A-A2.1

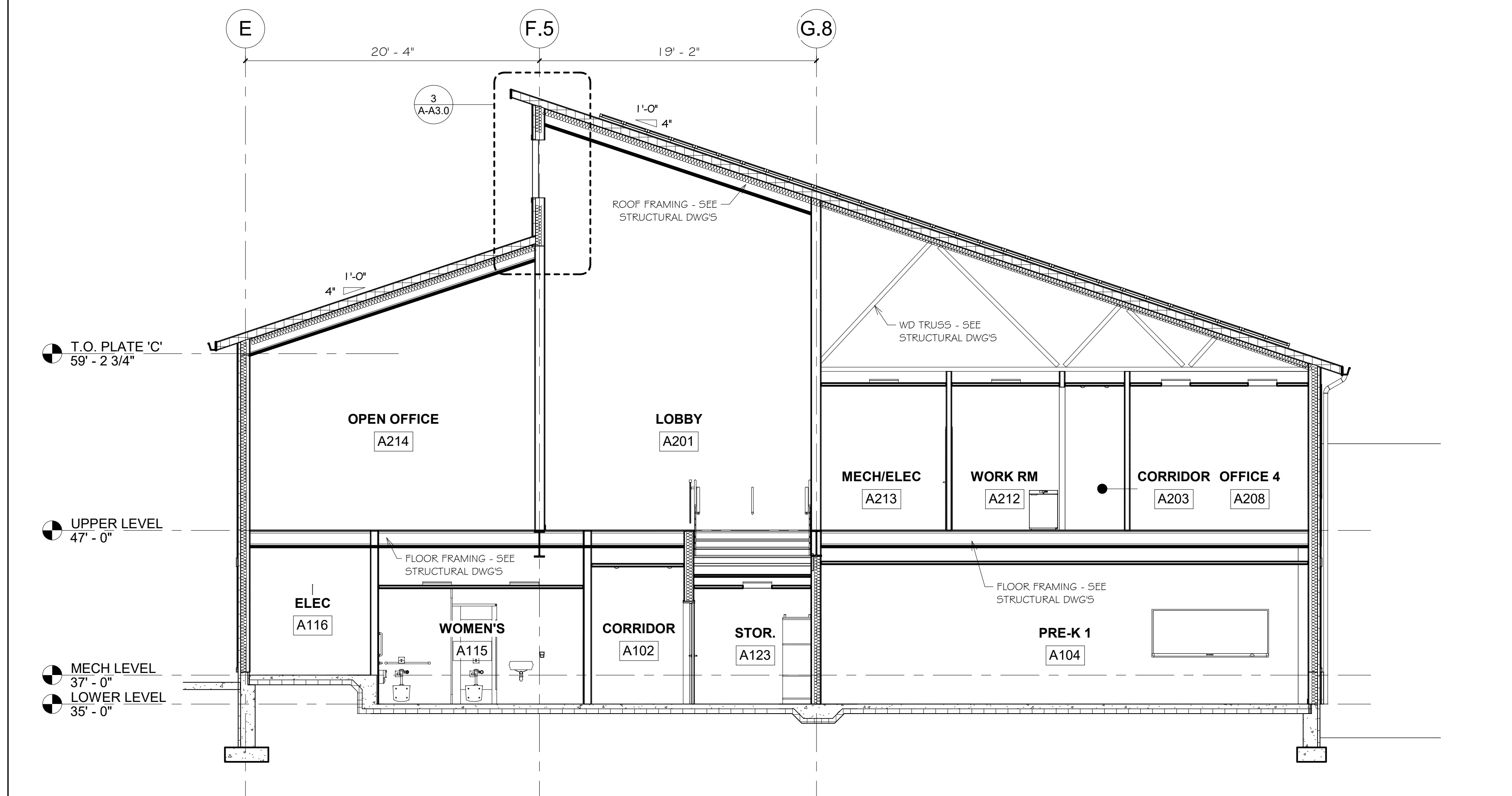
SHEET: OF:



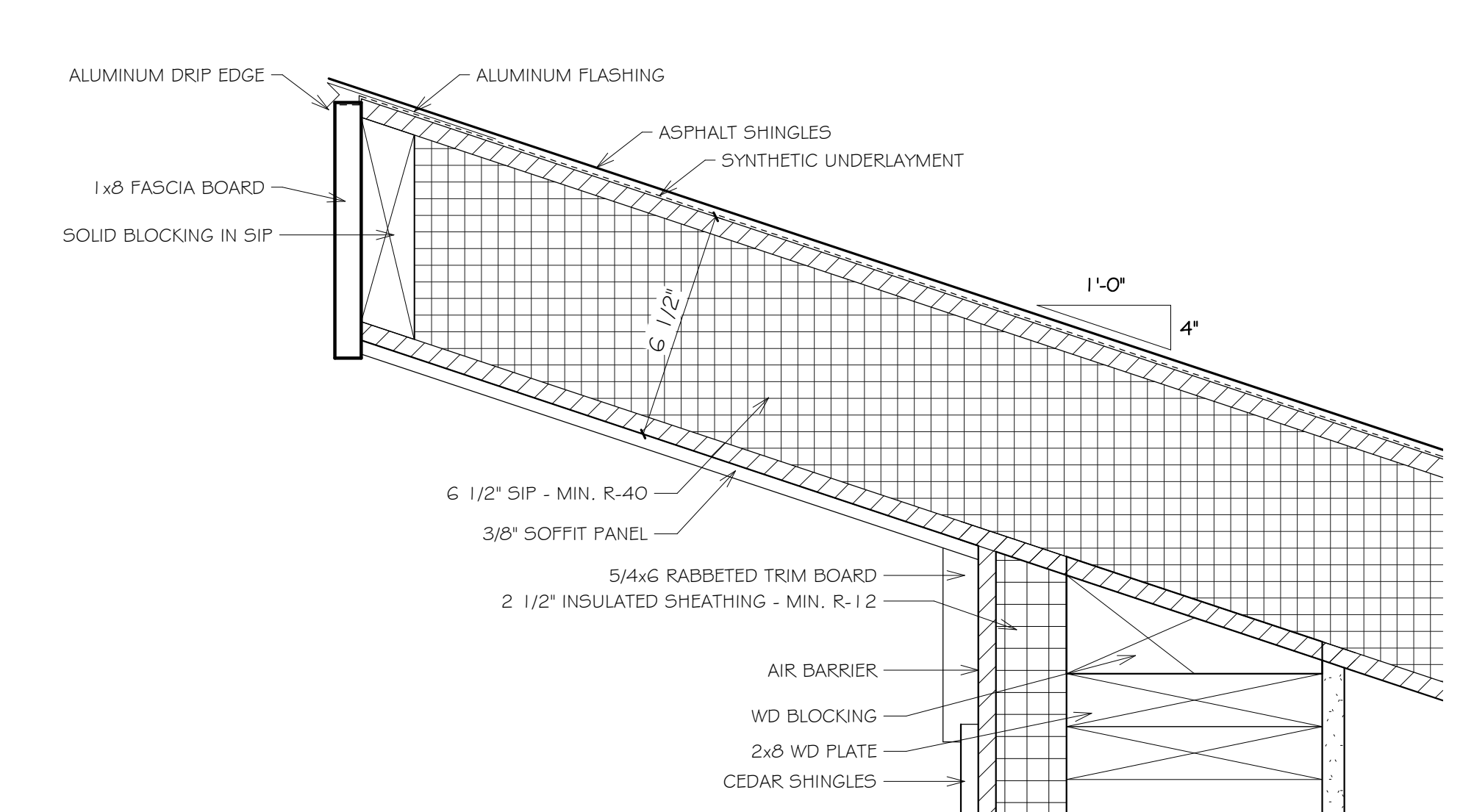
1 BUILDING SECTION
A-A3.0 3/16" = 1'-0"



3 WALL SECTION
A-A3.0 3/4" = 1'-0"



2 BUILDING SECTION
A-A3.0 3/16" = 1'-0"



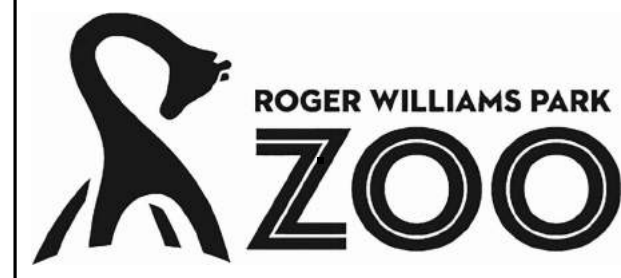
4 FASCIA DETAIL @ UPPER LEVEL ROOFS
A-A3.0 3" = 1'-0"



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Revision Schedule	
Revision Number	Revision Date

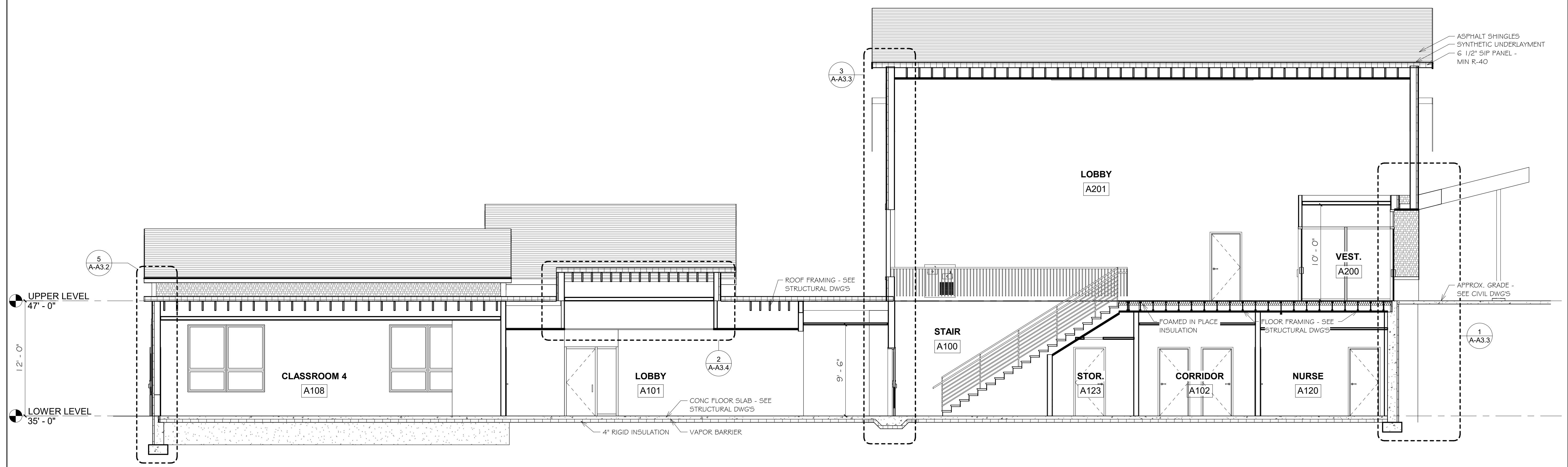
ISSUED FOR BID
April 18, 2024

SHEET TITLE
BUILDING SECTIONS

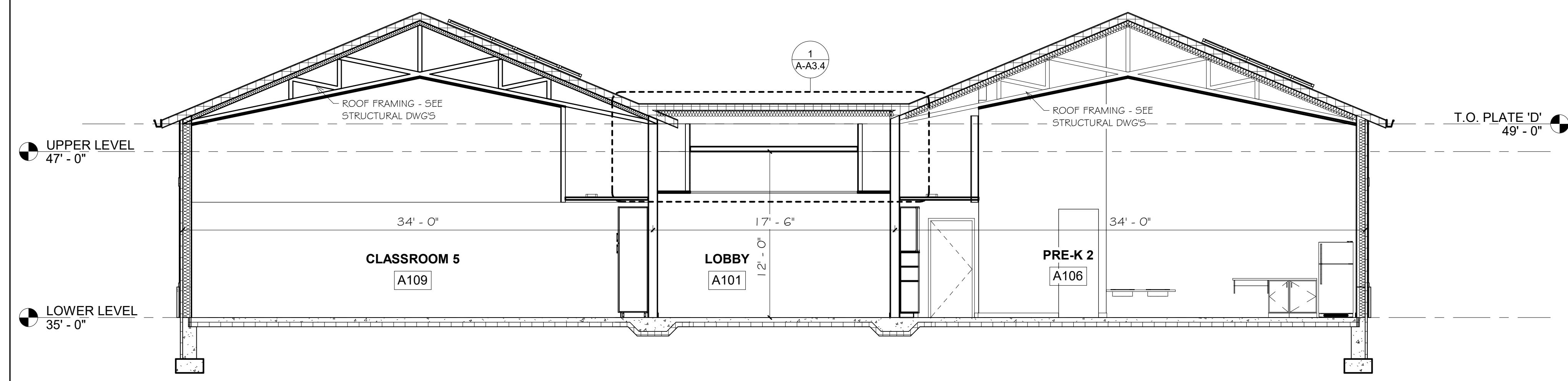
DRAWN BY: KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A3.0

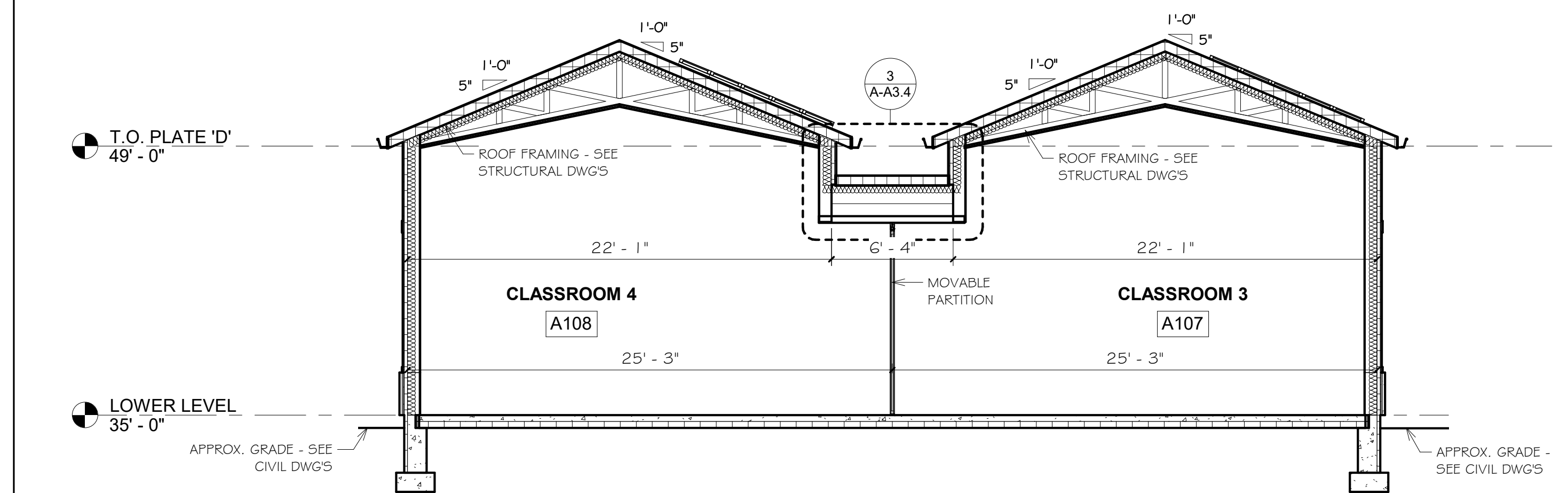
SHEET: OF:



3 BUILDING SECTION
 3/16" = 1'-0"



1 BUILDING SECTION
 3/16" = 1'-0"



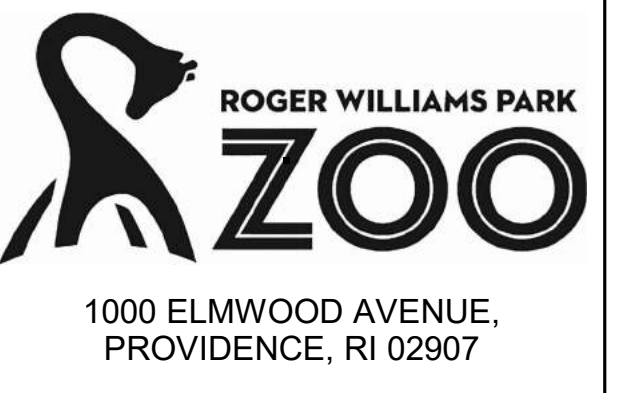
2 BUILDING SECTION
 3/16" = 1'-0"



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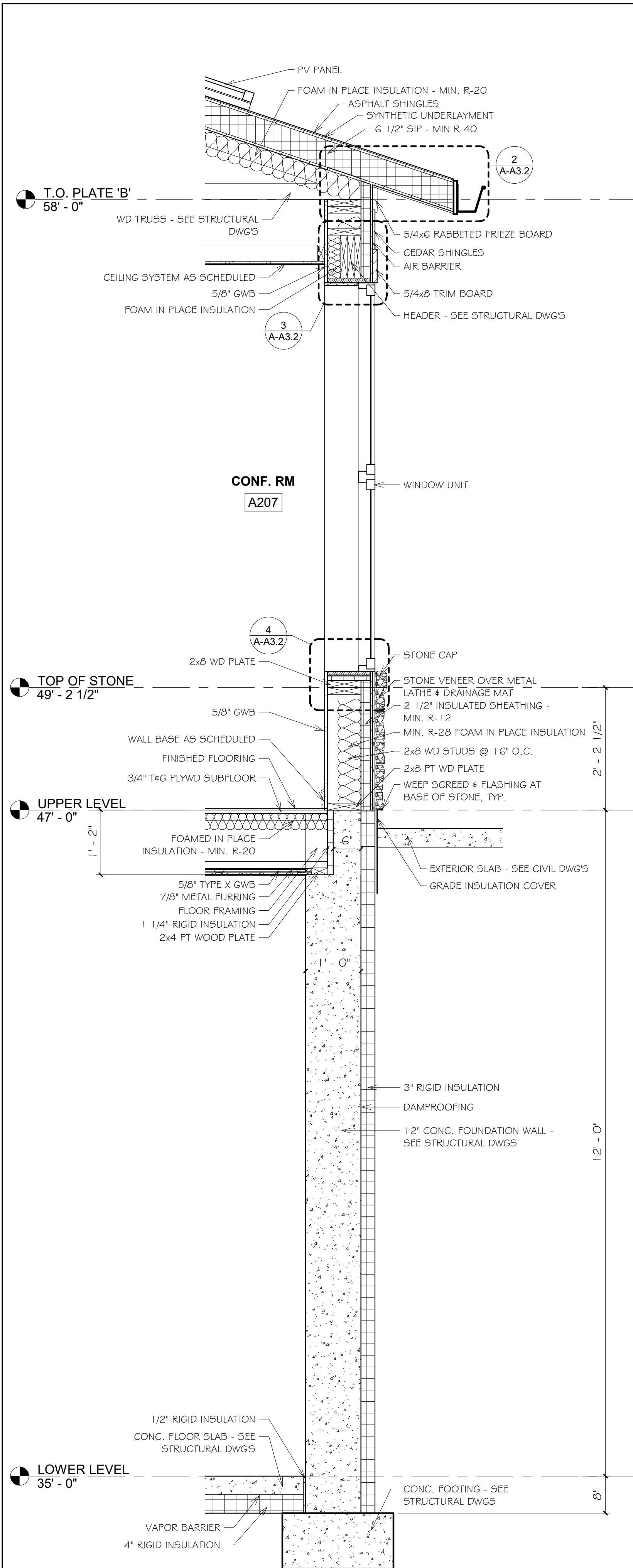
ISSUED FOR BID
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SHEET TITLE
BUILDING SECTIONS

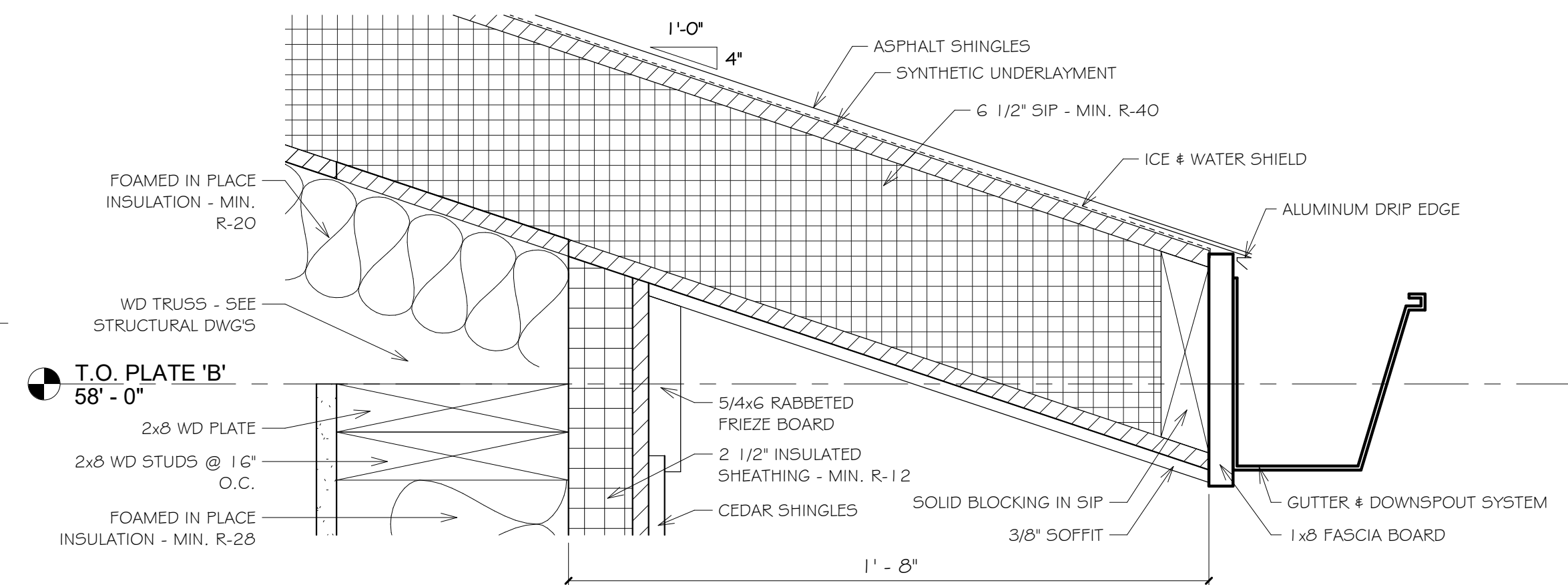
DRAWN BY: FK, KR JOB NUMBER: 18050
 CHECKED BY: MS DATE: 05/01/2024

A-A3.1

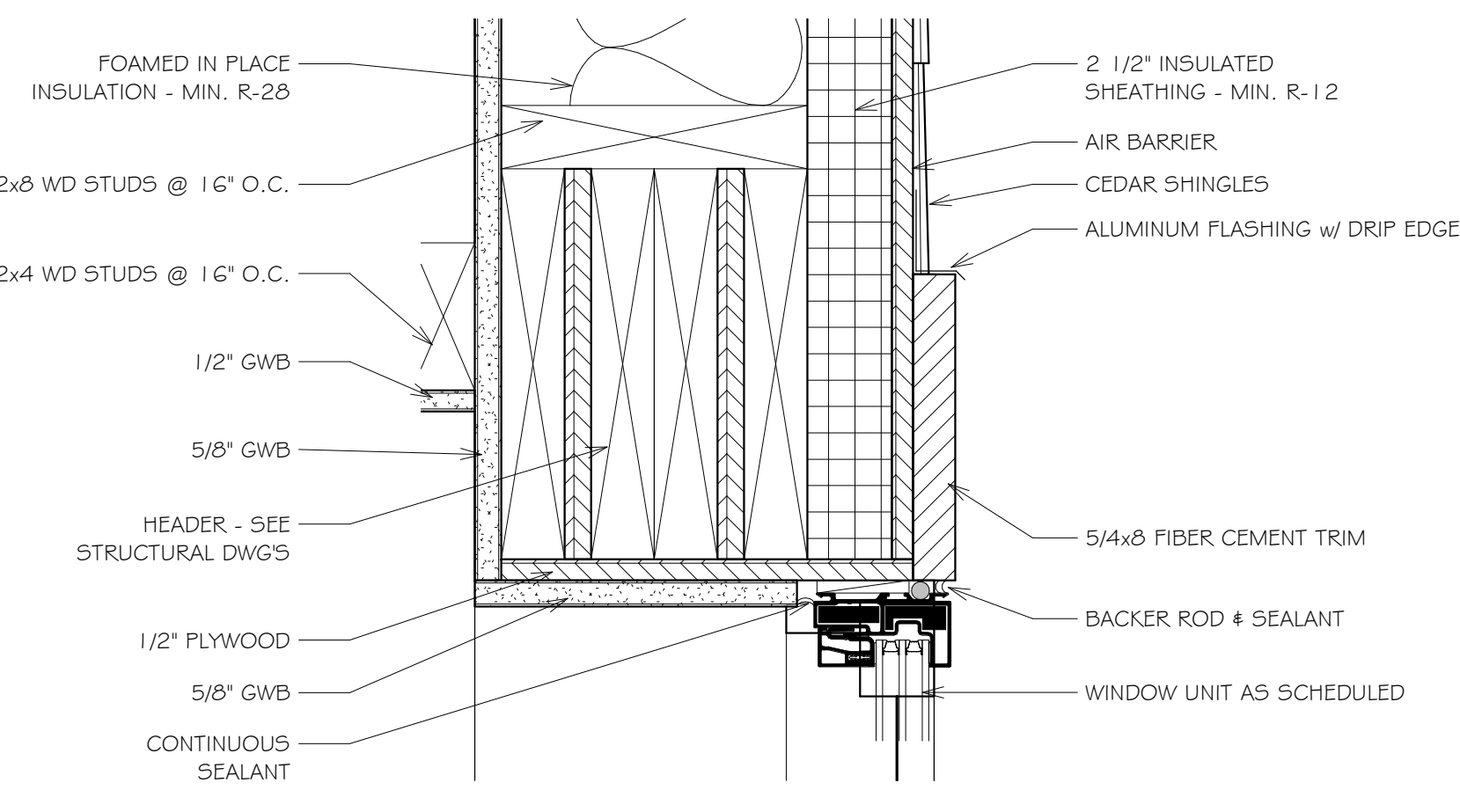
SHEET: OF:



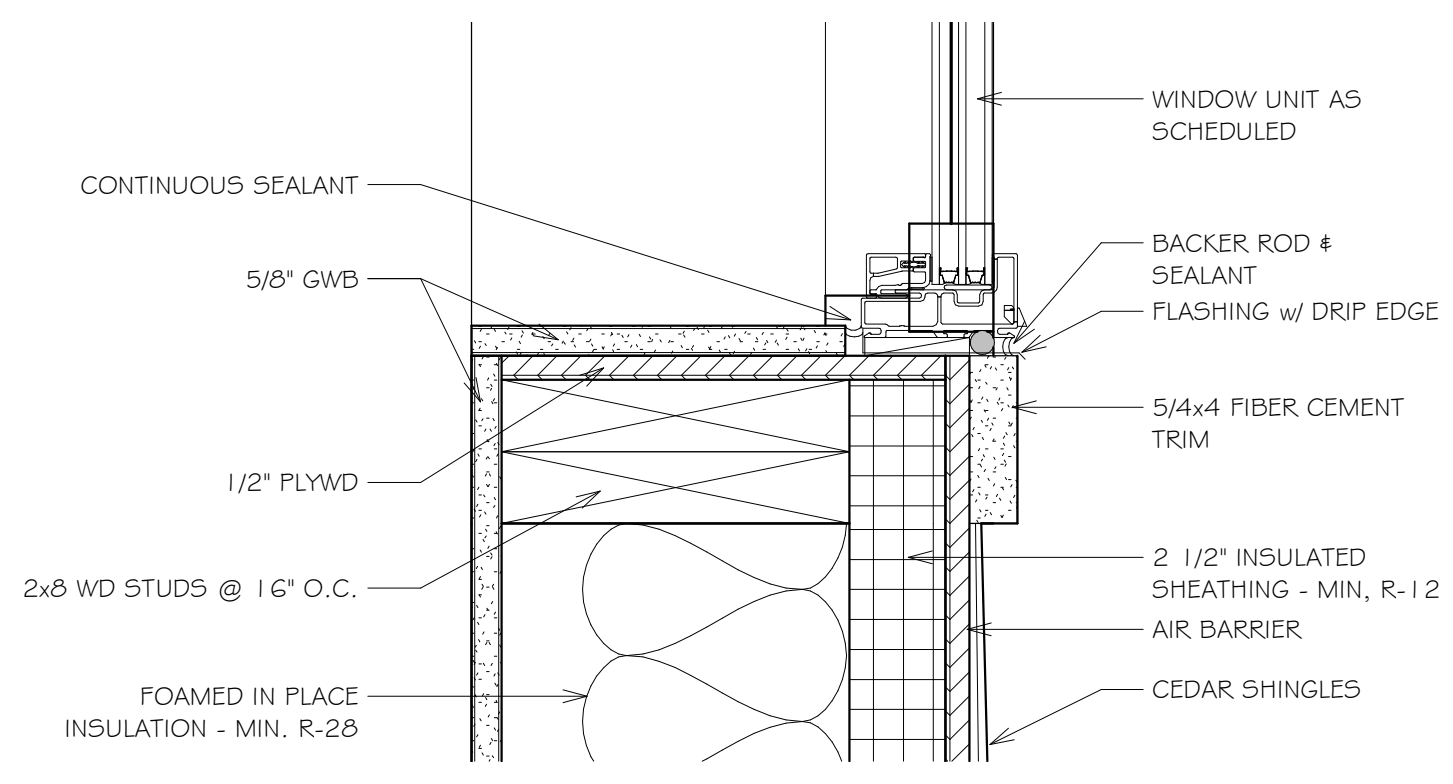
1
A-A3.2
WALL SECTION
3/4" = 1'-0"



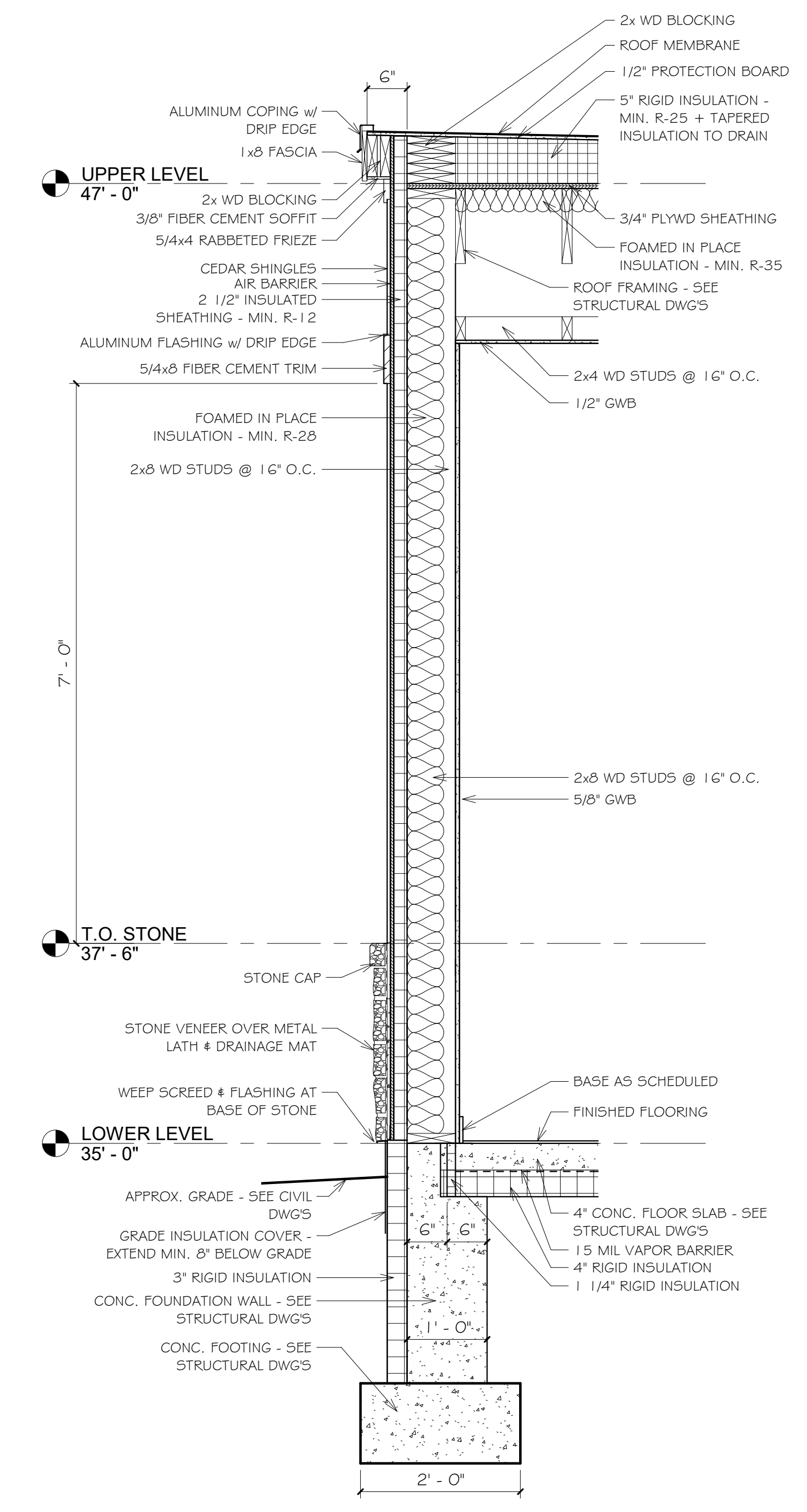
2
A-A3.2
FASCIA DETAIL @ UPPER LEVEL ROOFS
3" = 1'-0"



3
A-A3.2
TYPICAL WINDOW HEAD DETAIL
3" = 1'-0"



4
A-A3.2
TYPICAL WINDOW SILL DETAIL
3" = 1'-0"



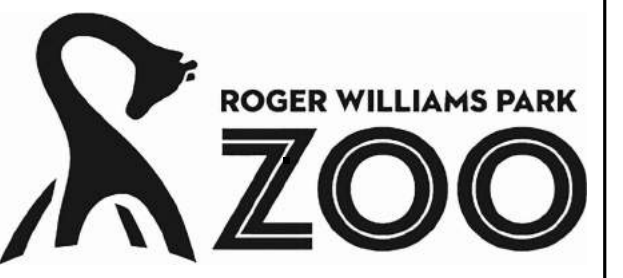
5
A-A3.2
WALL SECTION
3/4" = 1'-0"



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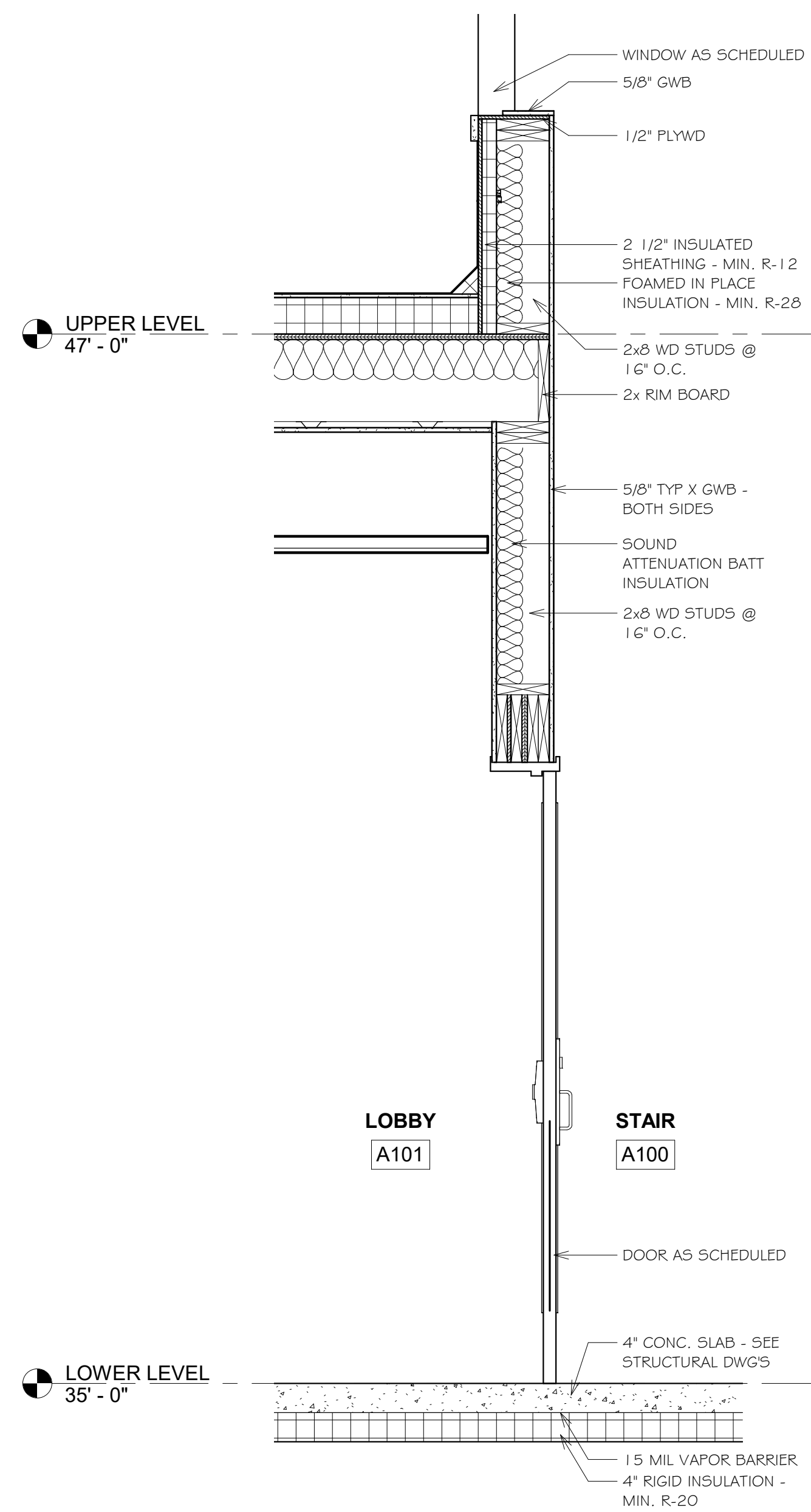
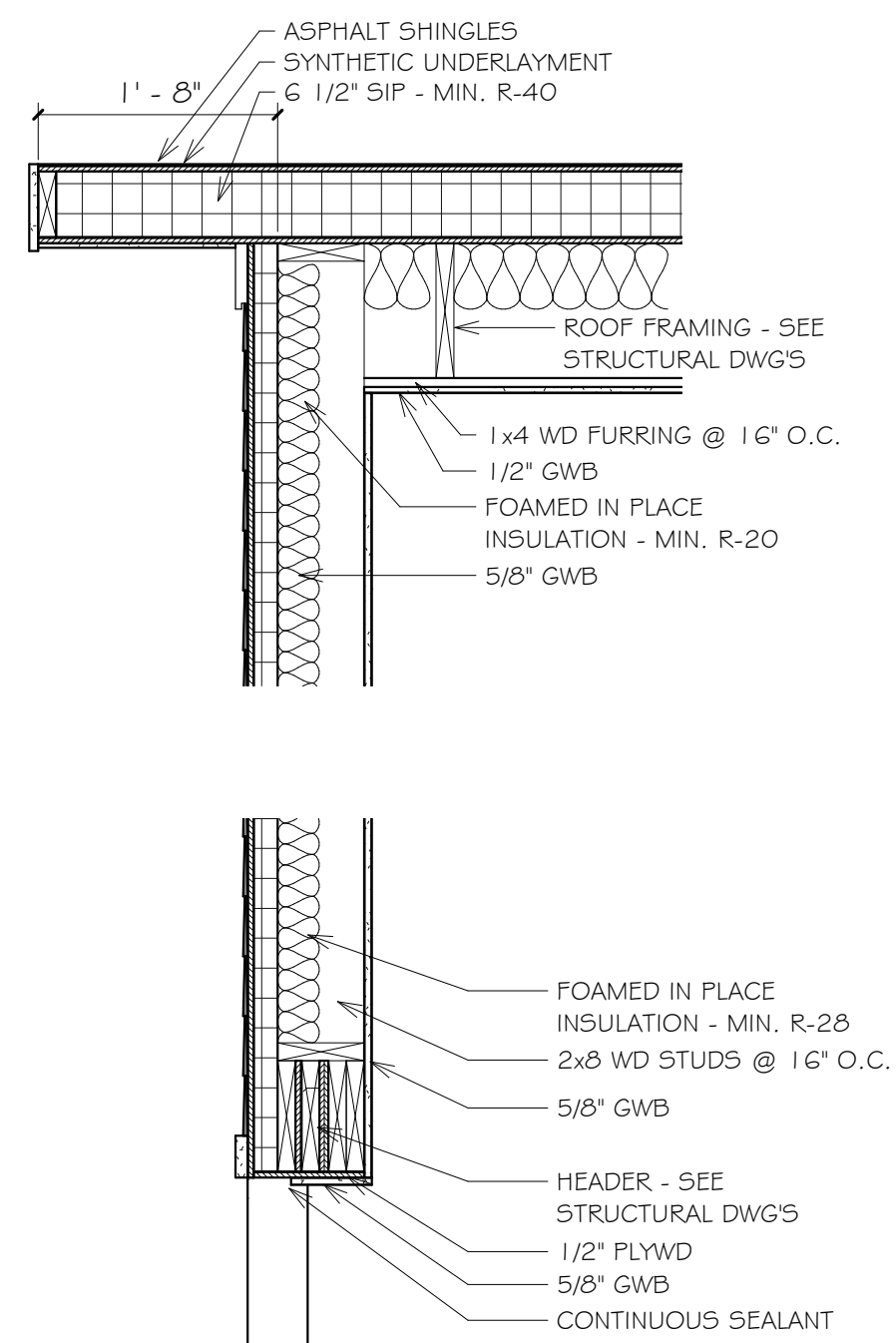
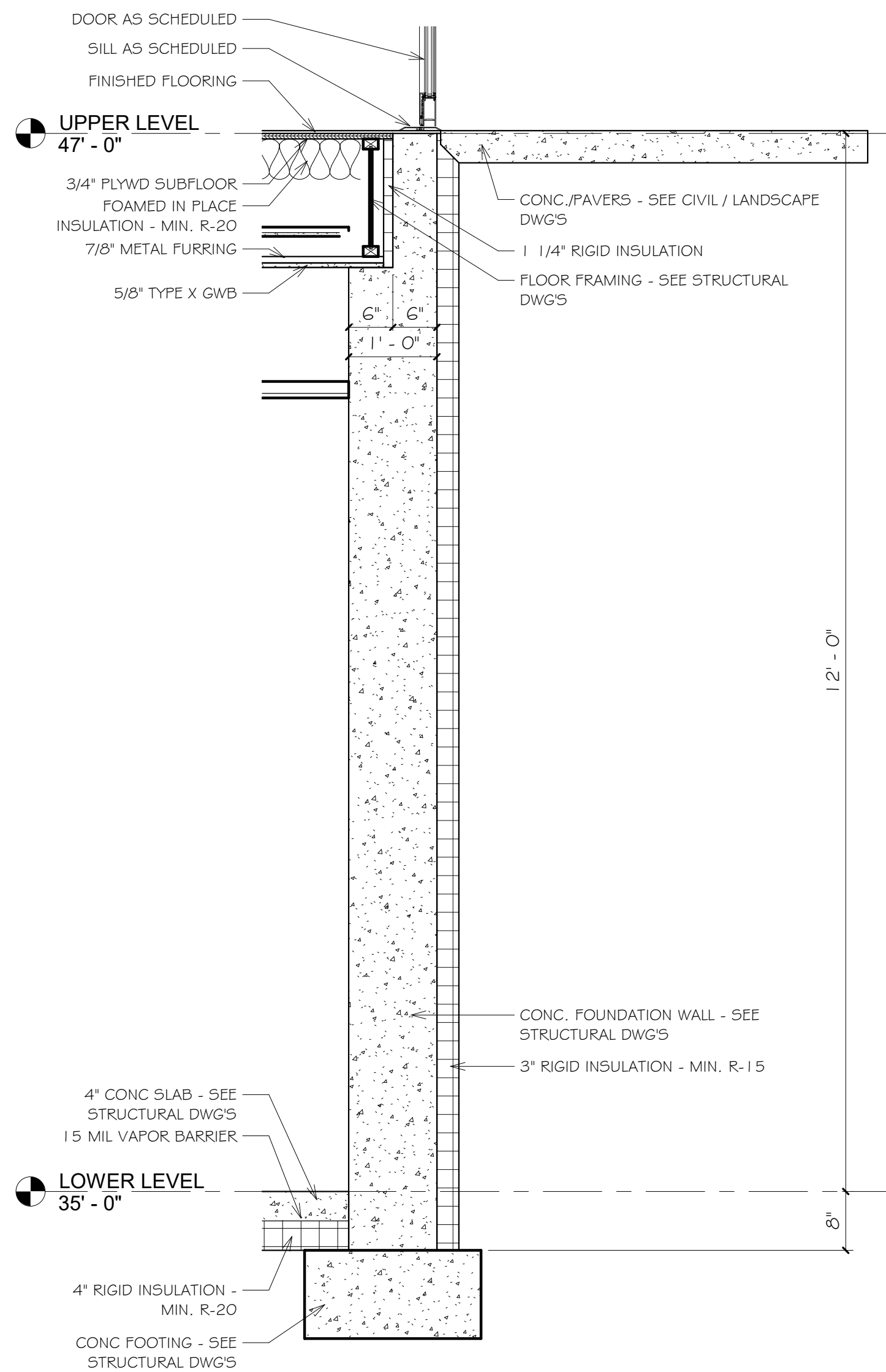
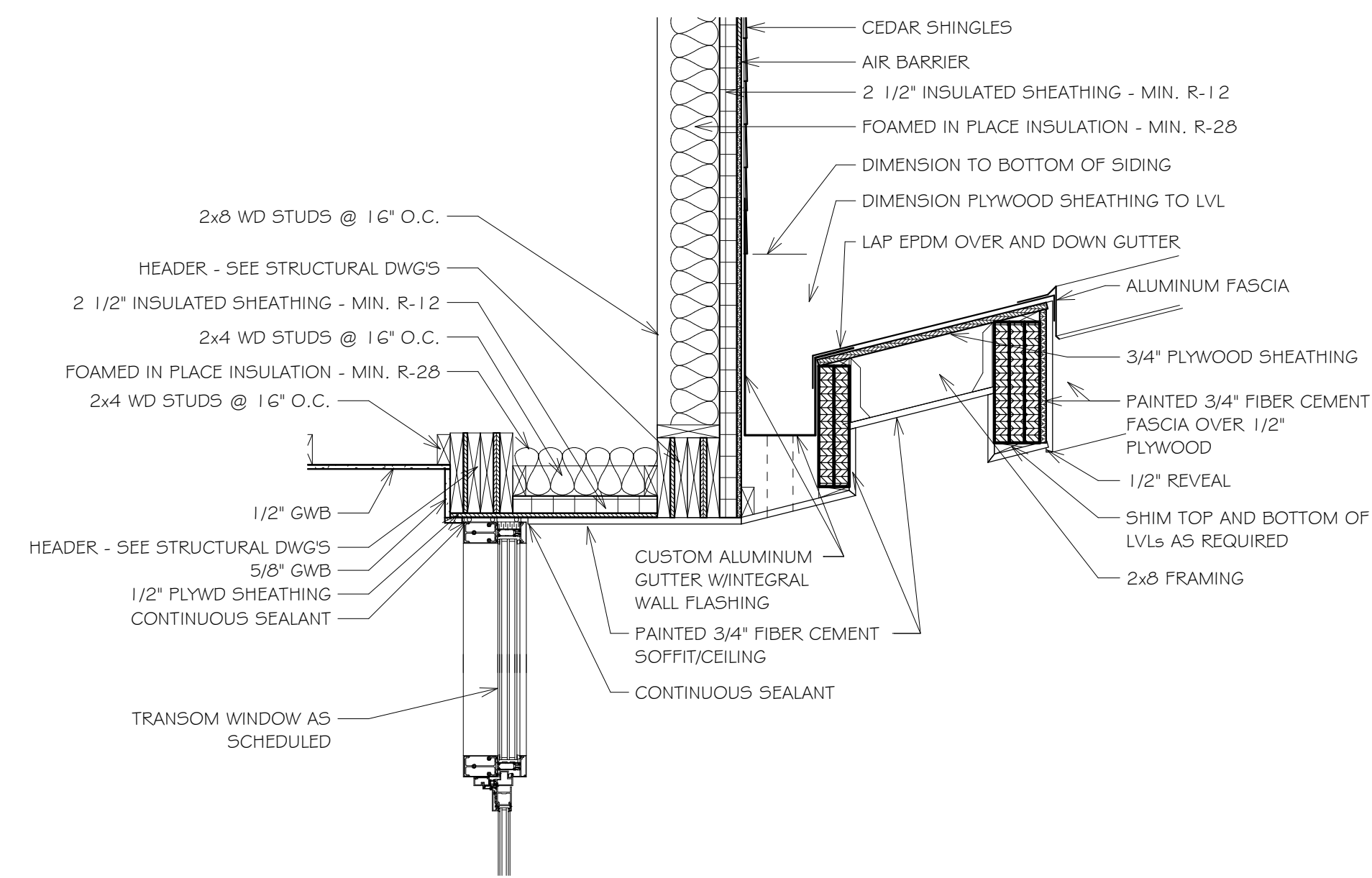
ISSUED FOR BID
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SHEET TITLE
WALL SECTIONS & DETAILS

DRAWN BY: FK, KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A3.2

SHEET: OF:



1 WALL SECTION
3/4" = 1'-0"

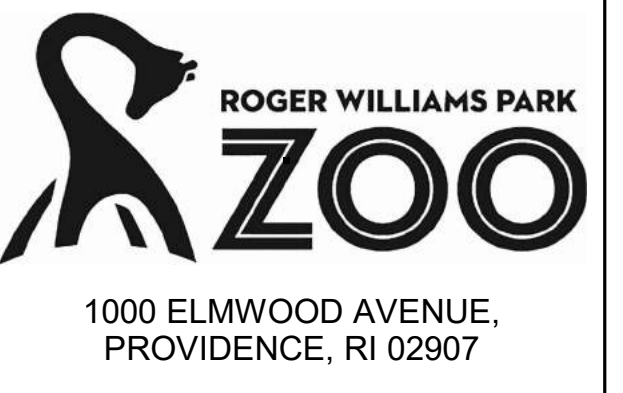
3 WALL SECTION
3/4" = 1'-0"



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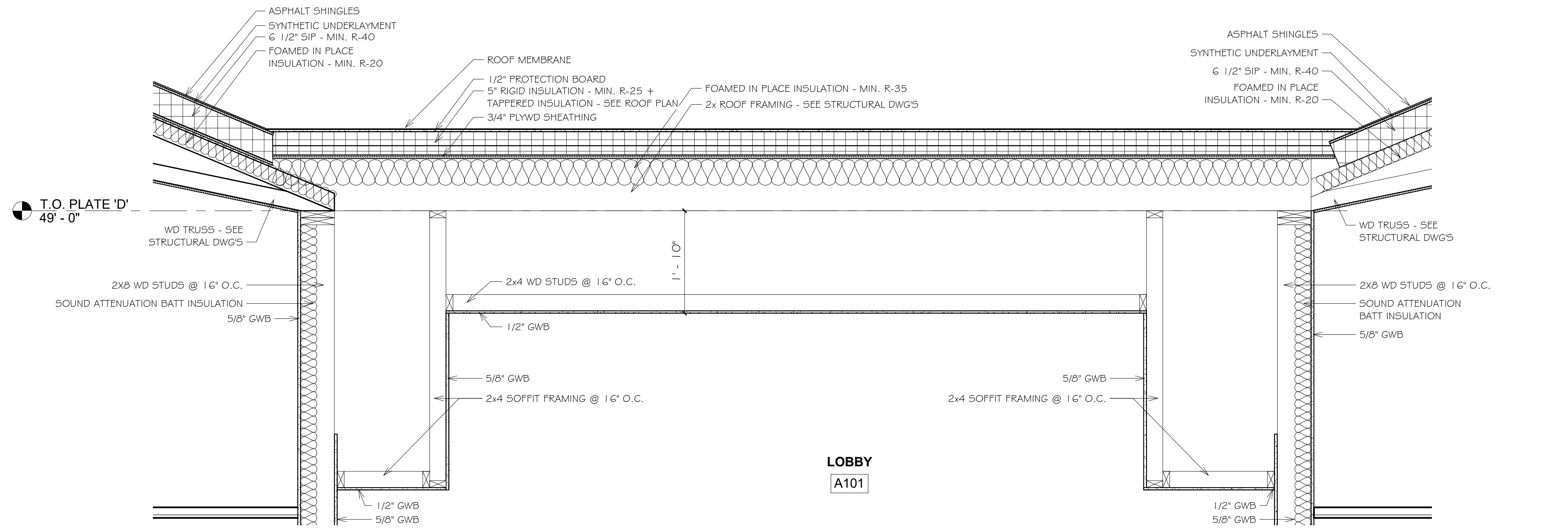
ISSUED FOR BID
April 18, 2024

SHEET TITLE
WALL SECTIONS

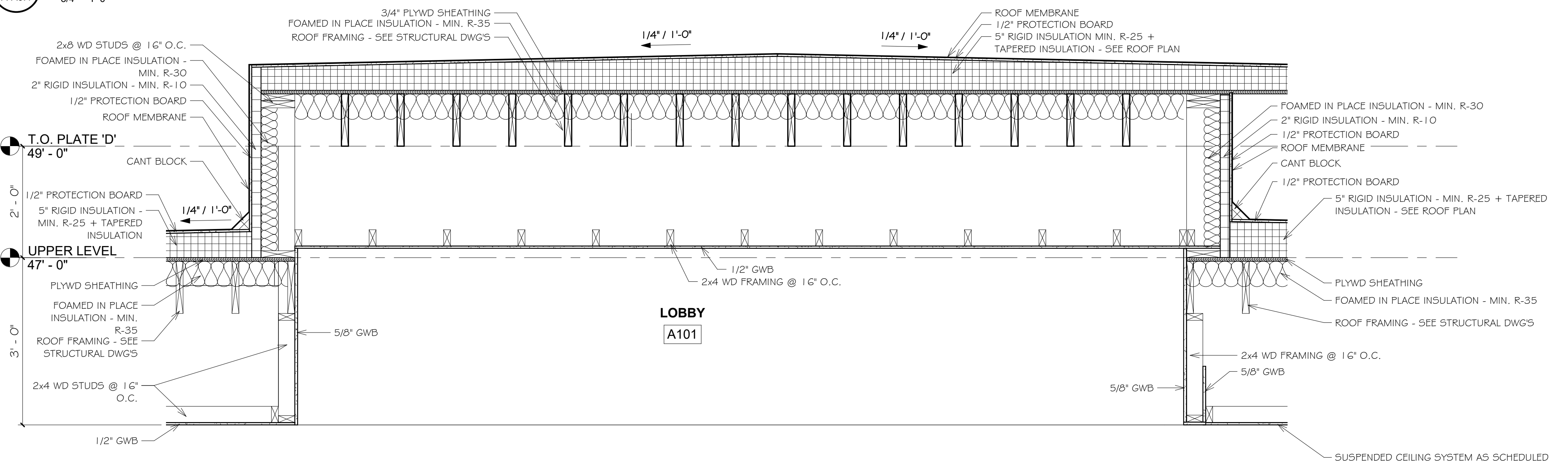
DRAWN BY: FK, KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A3.3

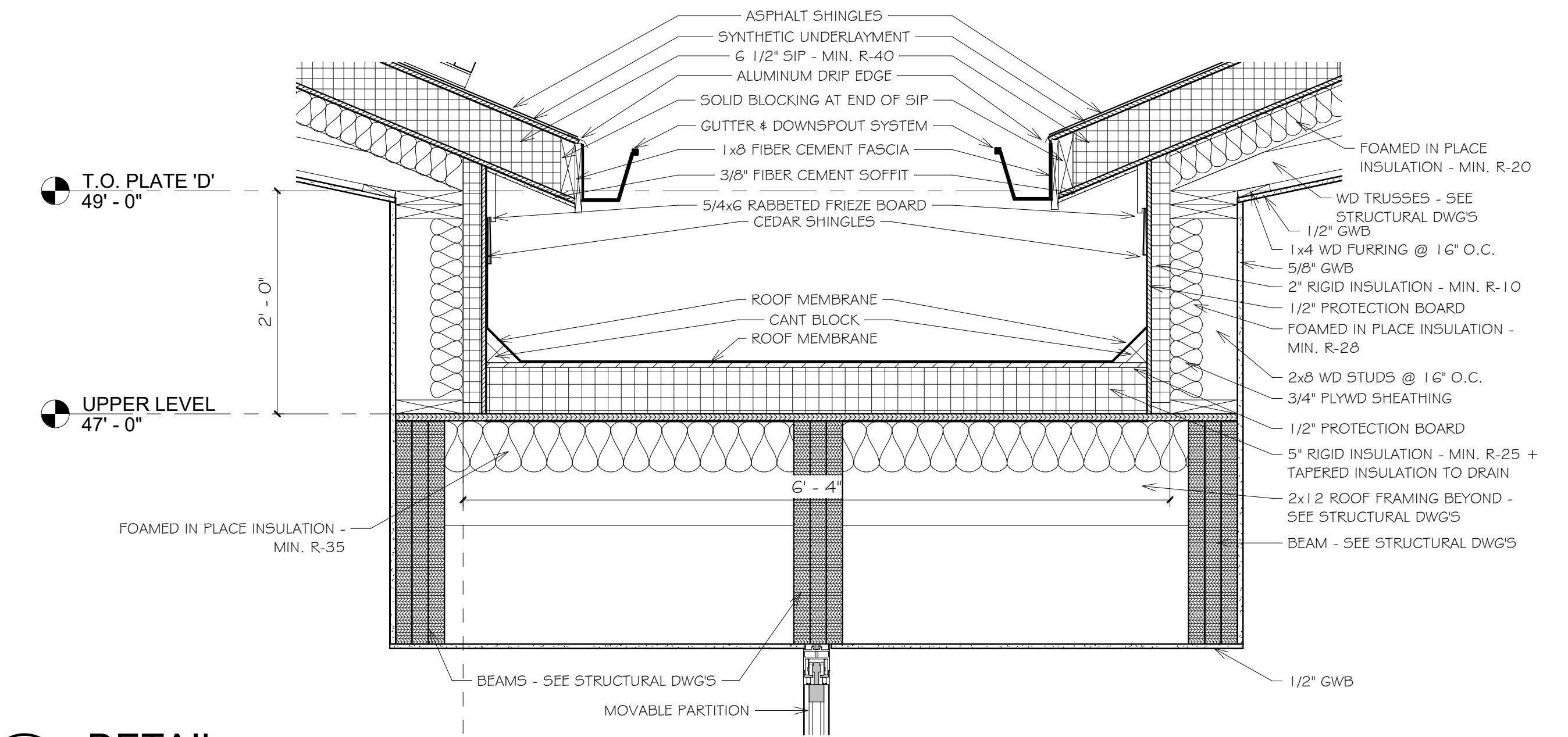
SHEET: OF:



1 SECTION @ LOBBY A101
A-A3.4 3/4" = 1'-0"



2 SECTION @ LOBBY A101
A-A3.4 3/4" = 1'-0"



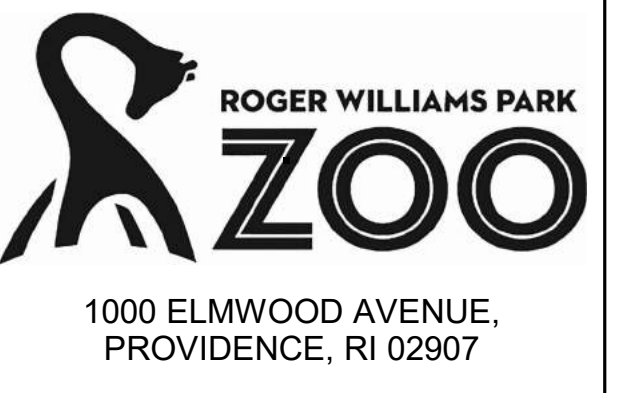
3 DETAIL
A-A3.4 1" = 1'-0"



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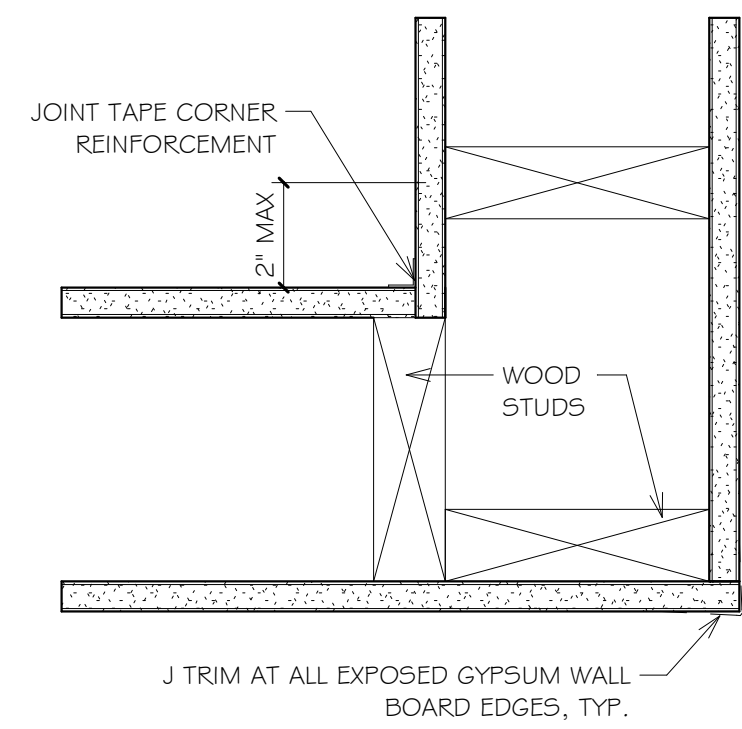
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SHEET TITLE
SECTIONS

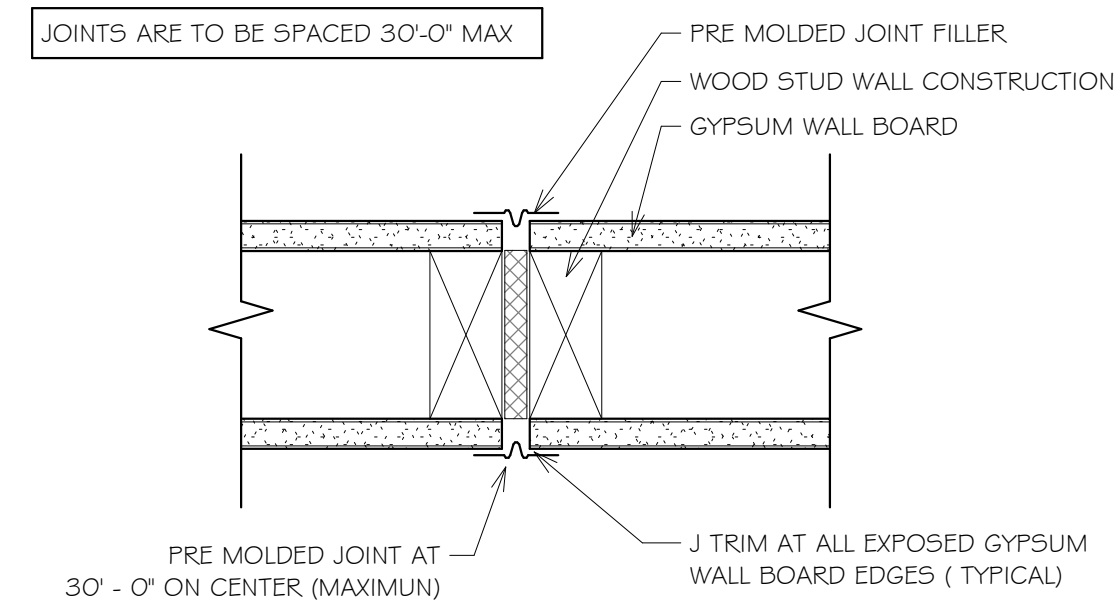
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A-A3.4

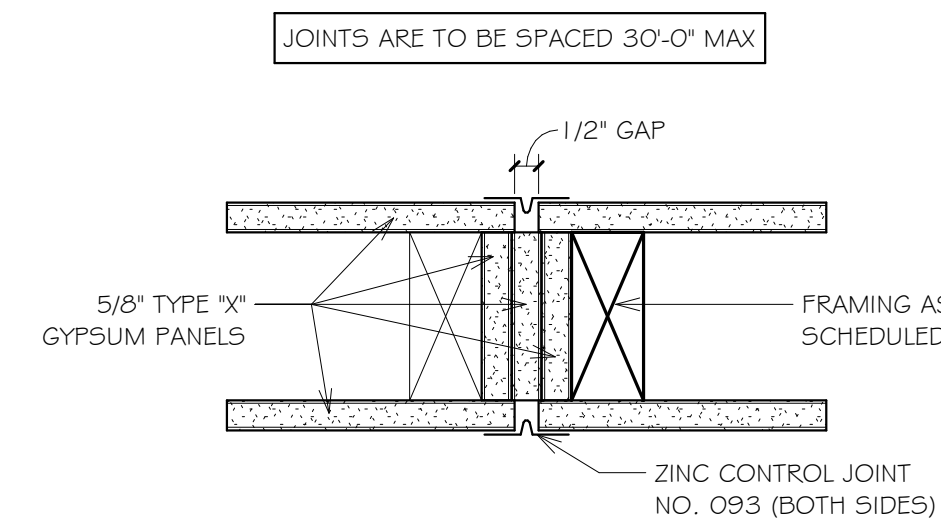
SHEET: OF:



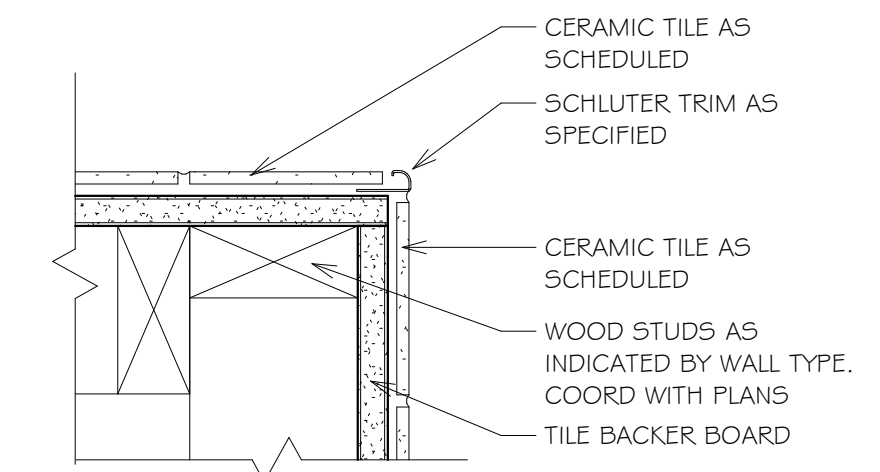
1 TYP. GWB CORNER DETAIL
3" = 1'-0"



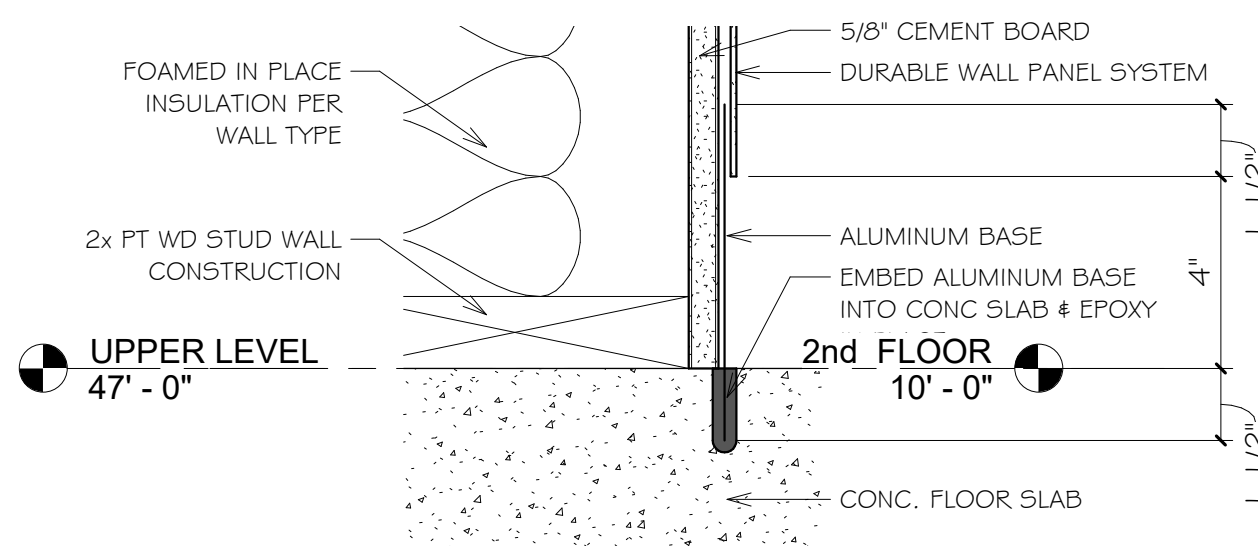
2 TYP. GWB CONTROL JOINT
3" = 1'-0"



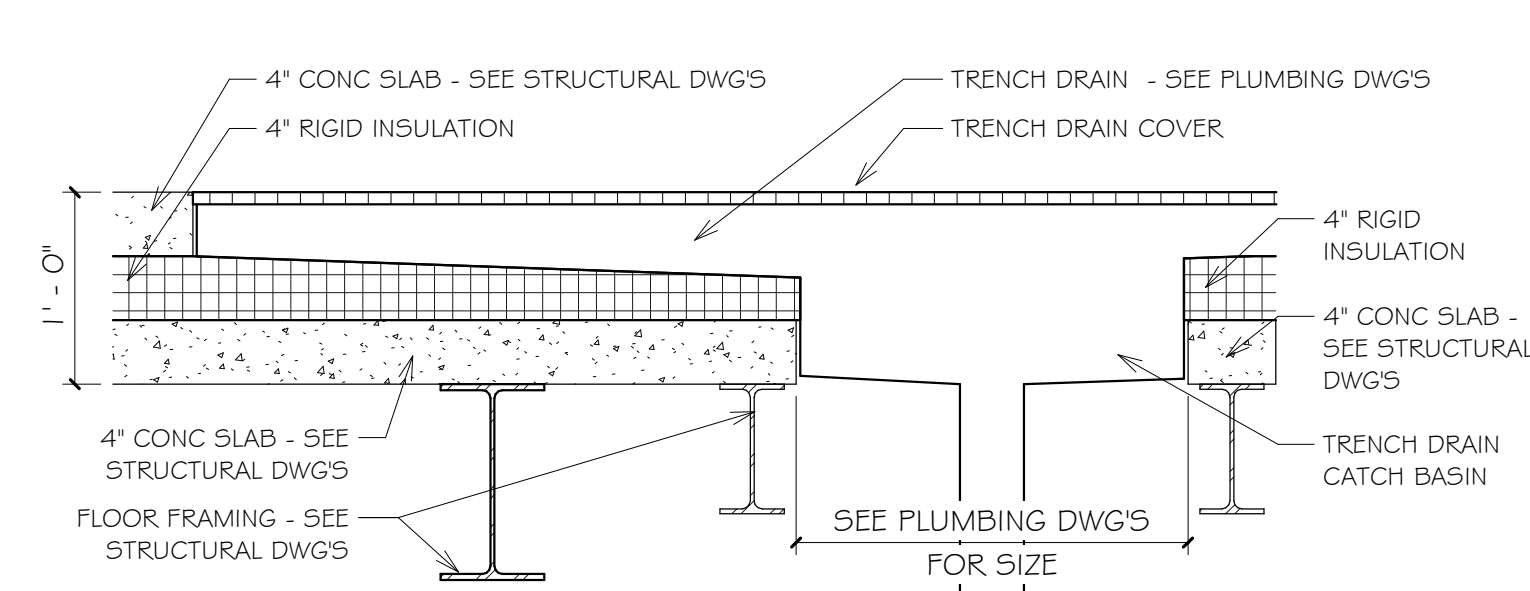
3 TYP. 1 HR RATED CONTROL JOINT
3" = 1'-0"



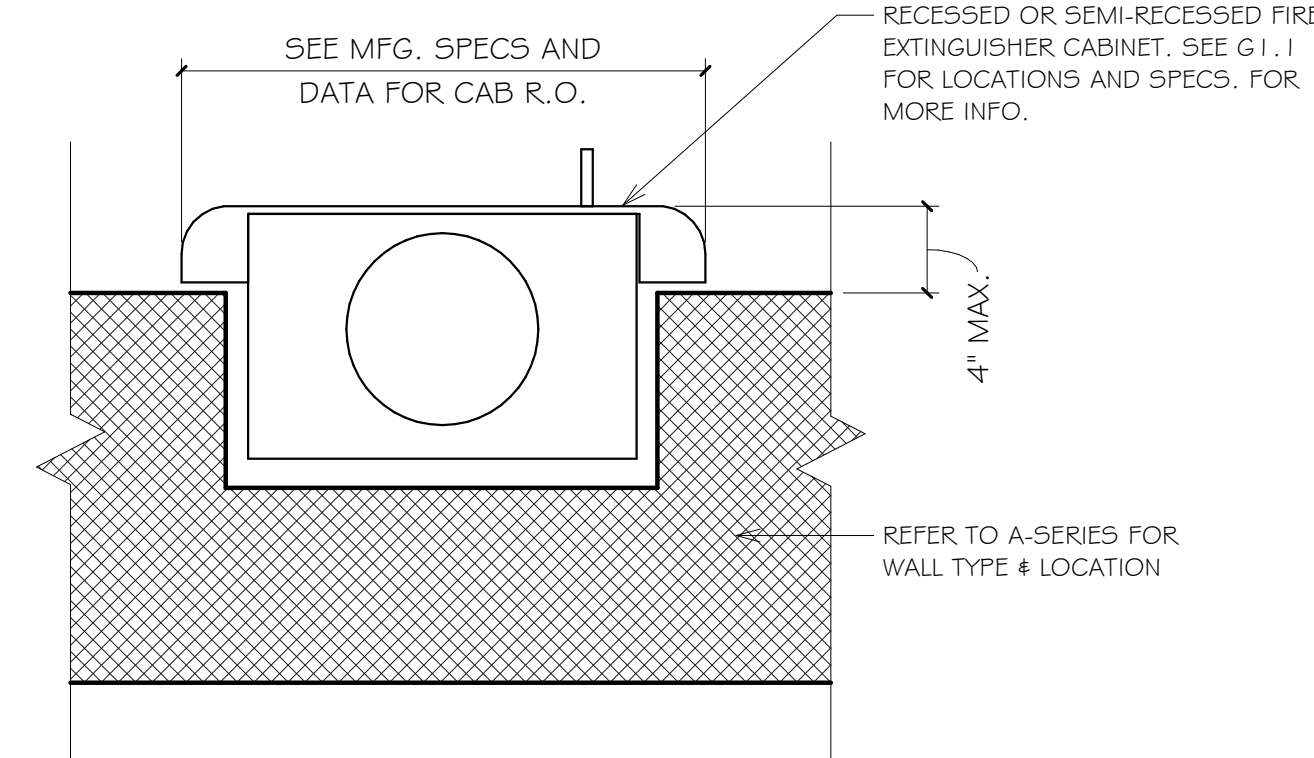
4 TYPICAL TILE CORNER DETAIL
3" = 1'-0"



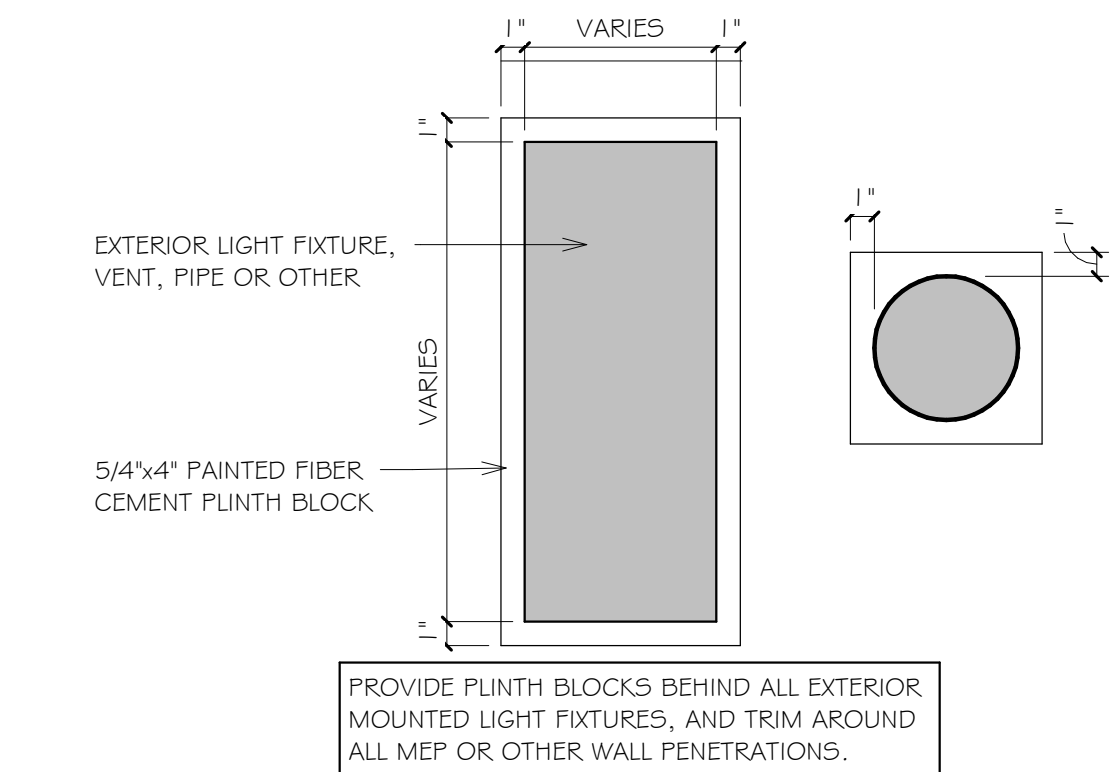
5 ALUMINUM BASE DETAIL
3" = 1'-0"



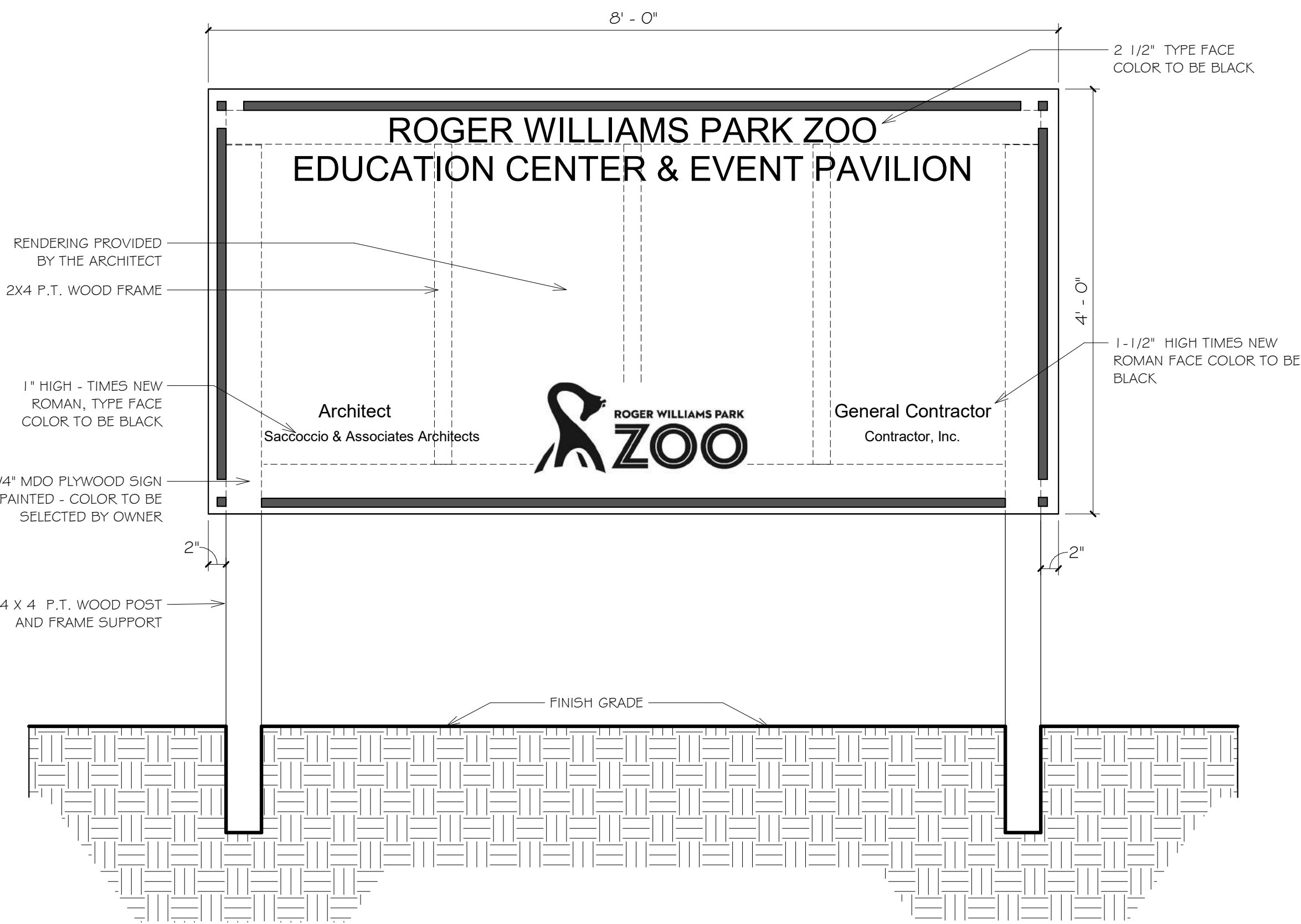
6 TRENCH DRAIN DETAIL
1" = 1'-0"



7 FIRE EXTINGUISHER DETAIL
3" = 1'-0"



8 PLINTH BLOCK DETAIL
1 1/2" = 1'-0"



9 CONSTRUCTION SIGN
1" = 1'-0"



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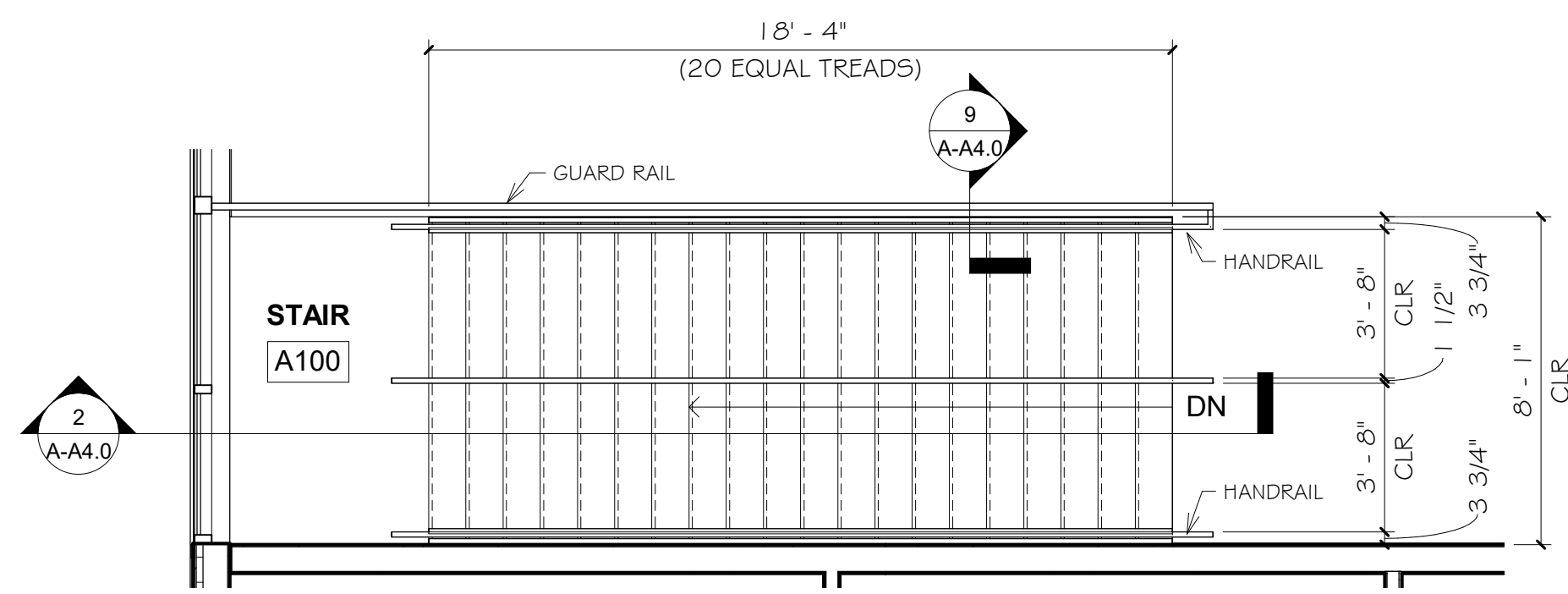
ISSUED FOR BID
April 18, 2024

SHEET TITLE
MISCELLANEOUS
DETAILS

DRAWN BY: KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

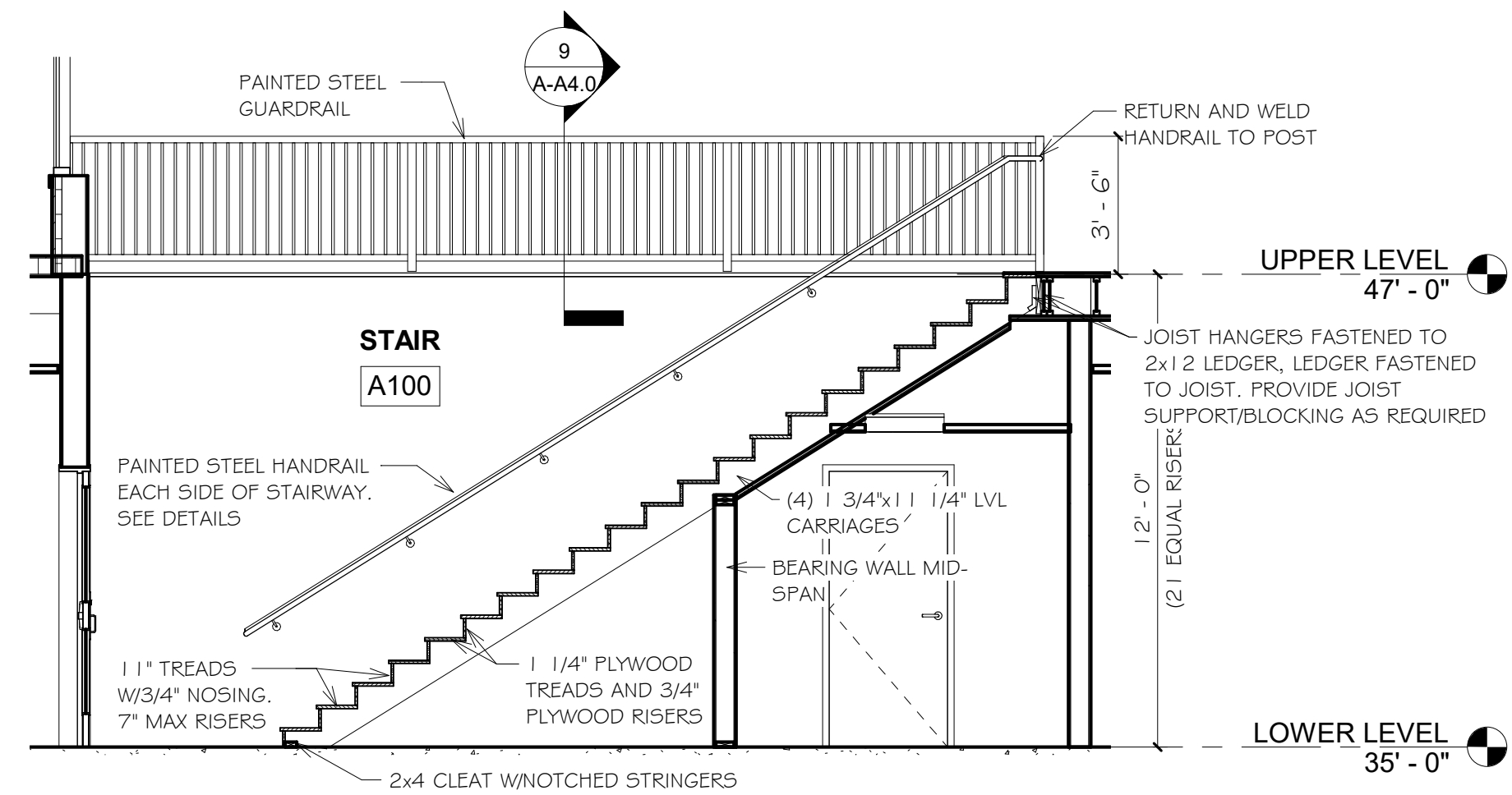
A-A3.5

SHEET: OF:



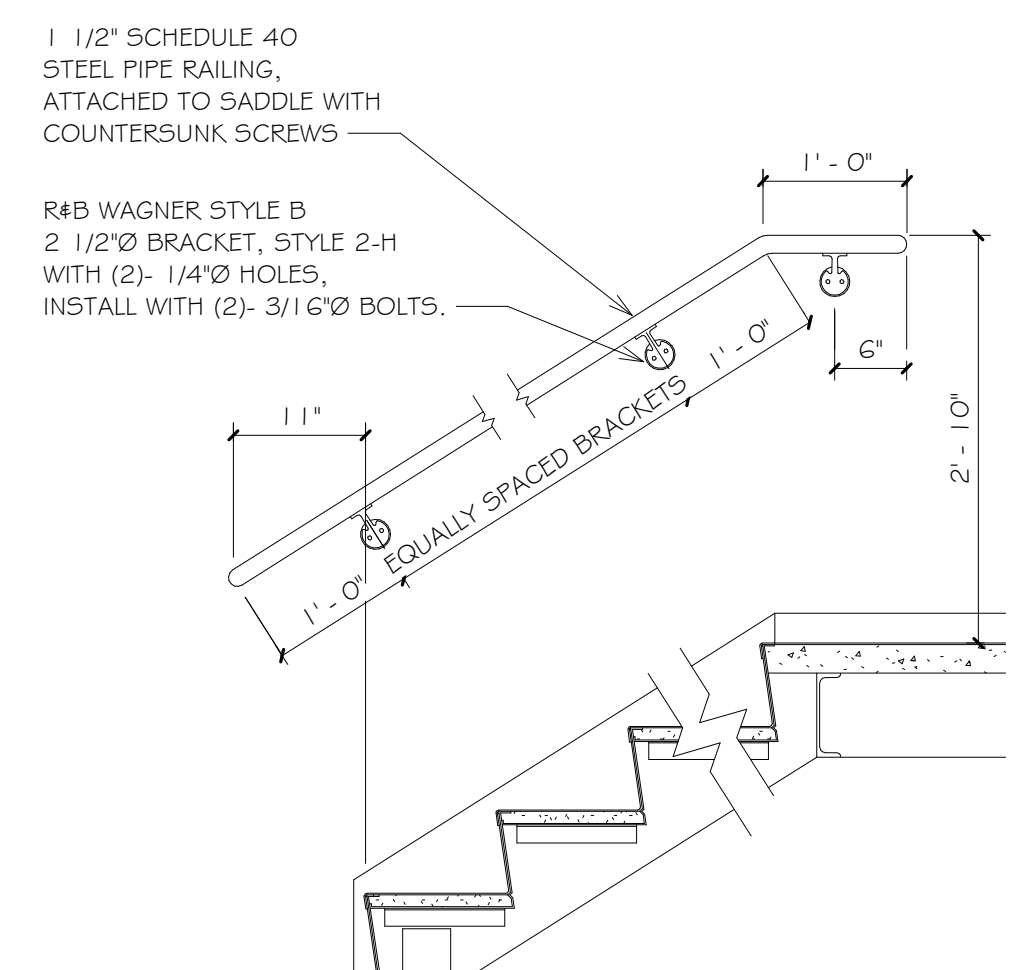
1 PLAN - STAIR A100

1/4" = 1'-0"



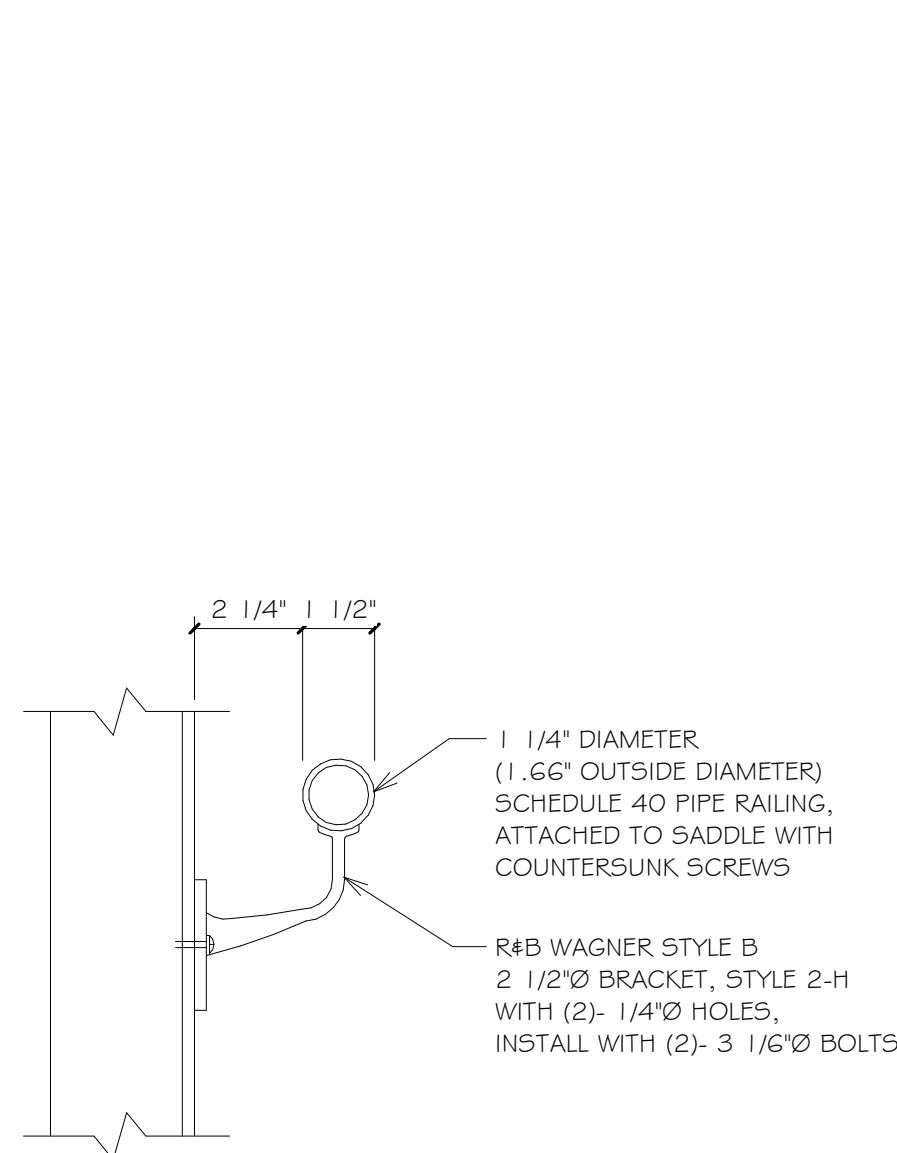
2 SECTION STAIR A100

1/4" = 1'-0"



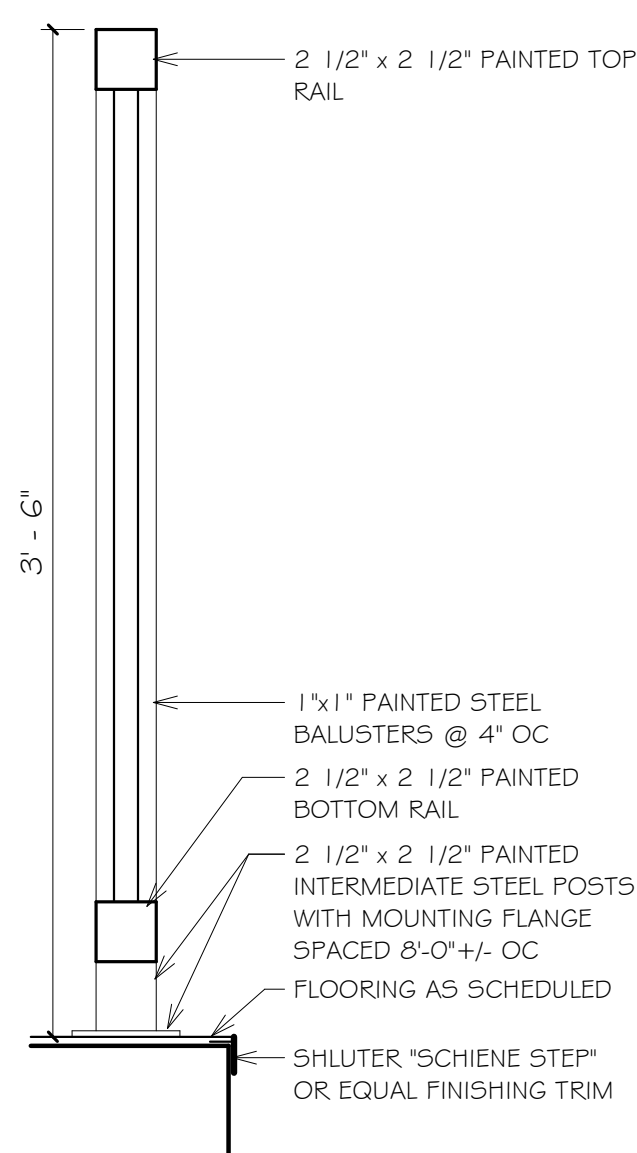
7 STAIR DETAIL

3/4" = 1'-0"



6 WALL MOUNTED RAILING

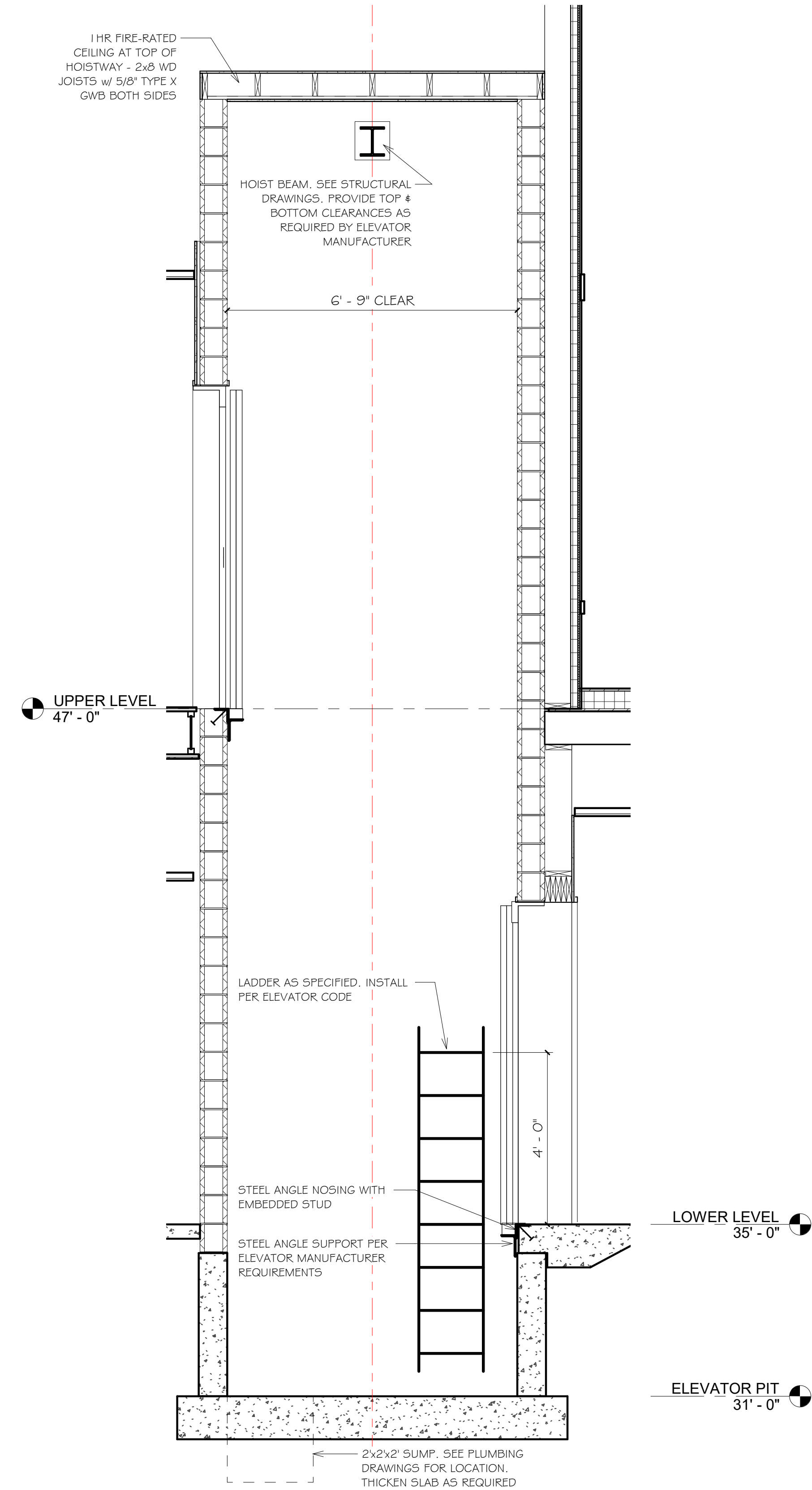
3" = 1'-0"



9 GUARD RAIL DETAIL STAIR A100

1 1/2" = 1'-0"

- STAIR NOTES:**
1. ALL EXPOSED STEEL STAIR ELEMENTS ARE TO BE PAINTED. COLOR BY ARCHITECT.
 2. SEE FINISH SCHEDULE FOR MORE INFORMATION.
 3. ALL HANDRAILS SHALL HAVE A 2 1/4" CLEARANCE BETWEEN THEM AND WALLS, AS WELL AS ANY OTHER OBSTRUCTIONS, AND BE 36" HIGH FROM THE OUTERMOST POINT OF THE NOSINGS TO THE TOP OF THE HANDRAIL.
 4. ALL WALL MOUNTED HAND RAILS SHALL EXTEND HORIZONTALLY FOR 12" AT 36" ABOVE FINISH FLOOR AT THE TOP OF EACH STAIR RUN. AT THE BOTTOM OF EACH RUN THEY SHALL EXTEND 11" FROM THE EDGE OF LAST NOSING AT THE SLOPE OF THE STAIRS. RETURN WALL-MOUNTED HANDRAILS TO THE WALL AT ALL ENDS.
 5. ALL GUARDRAILS SHALL BE 42" HIGH FROM THE OUTERMOST POINT OF THE NOSINGS TO THE TOP OF THE GUARDRAIL AT STAIR RUNS, AND 42" FROM THE FINISH FLOOR TO THE TOP OF THE GUARDRAIL AT LANDINGS.
 6. PROVIDE ADEQUATE FIRE RESISTANT BLOCKING, REINFORCEMENT, SUPPORTS, ETC. AS REQUIRED FOR BRACKETS AND OTHER SUPPORTING ELEMENTS.



10 ELEVATOR HOISTWAY

1/2" = 1'-0"

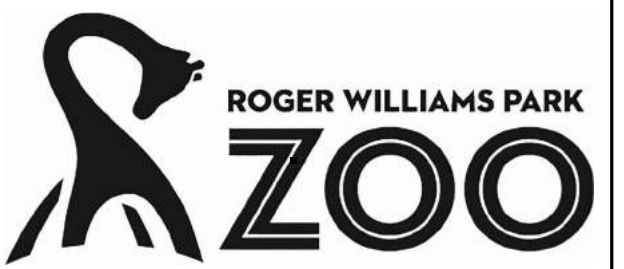


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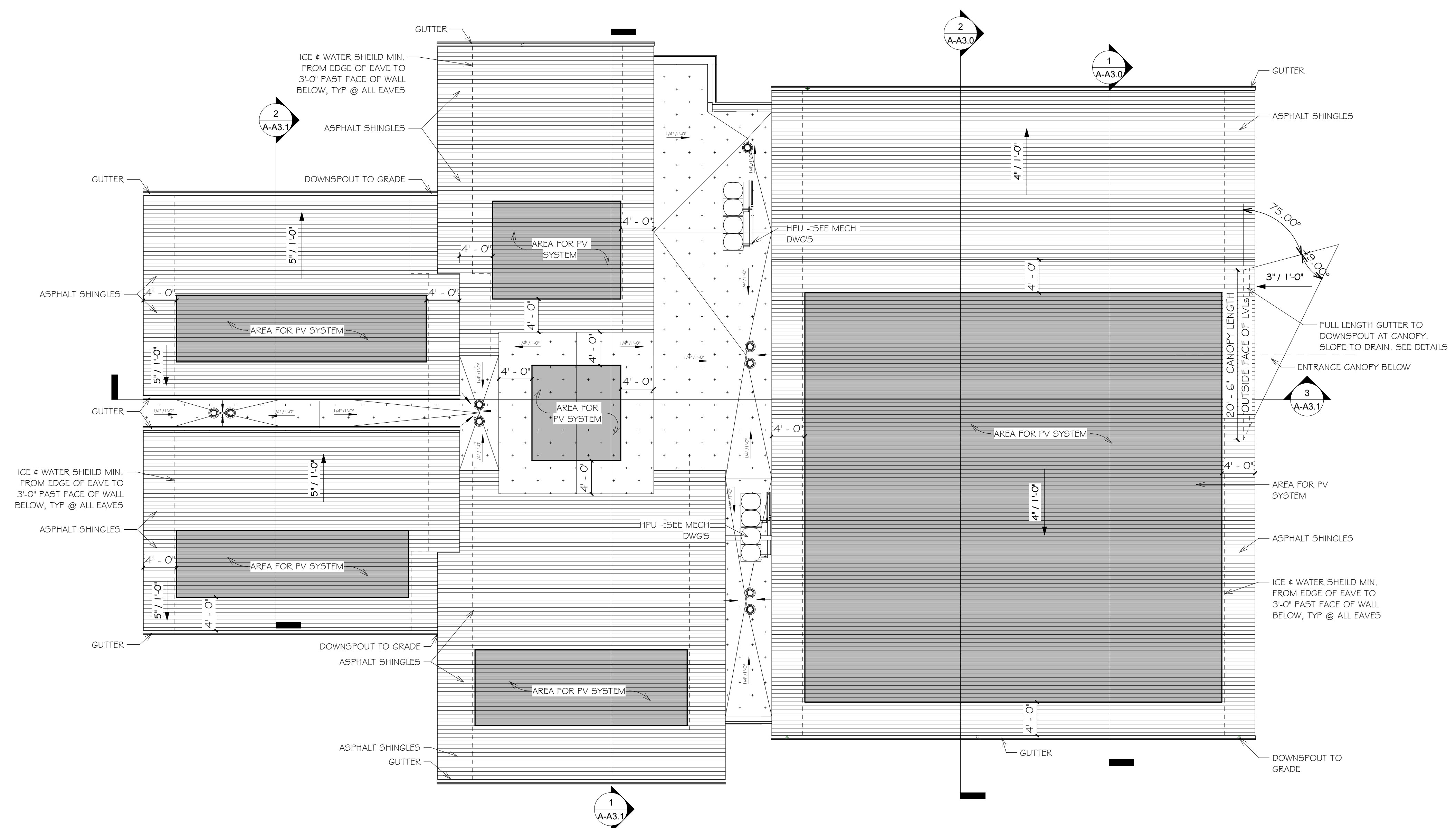
SHEET TITLE
STAIR AND ELEVATOR PLANS AND SECTIONS

DRAWN BY: TI JOB NUMBER: 18050

CHECKED BY: MS DATE: 05/01/2024

A-A4.0

SHEET: OF:



ROOF PLAN LEGEND

- ASPHALT SHINGLE ROOF
- TPO ROOF MEMBRANE
- AREA AVAILABLE FOR PV PANELS

NOTES

- AREAS FOR PV PANELS ARE DIAGRAMATIC & OUTLINE GENERAL ROOF AREA AVAILABLE. LAYOUT & PANEL SPACING ARE TO BE PROVIDED BY PV CONTRACTOR.
- PV LAYOUT IS TO MEET ALL APPLICABLE STATE & LOCAL CODE REQUIREMENTS & BE APPROVED BY AHJ PRIOR TO INSTALLATION.
- SEE SOLAR HOT WATER SYSTEM DRAWINGS FOR MORE INFO REGARDING SOLAR HOT WATER LAYOUT.
- ALL TAPERED INSULATION IS TO MEET MIN. SLOPE OF 1/4" PER 1'-0". GC IS TO PROVIDE TAPERED INSULATION PLAN TO ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE CRICKETS AND/OR TAPERED INSULATION AS REQUIRED AT ROOF MOUNTED EQUIPMENT TO PROVIDE POSITIVE WATER FLOW TOWARDS ROOF DRAINS.

1
A-A5.0
1/8" = 1'-0"

SZ ARCHITECTS

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ROGER WILLIAMS PARK ZOO
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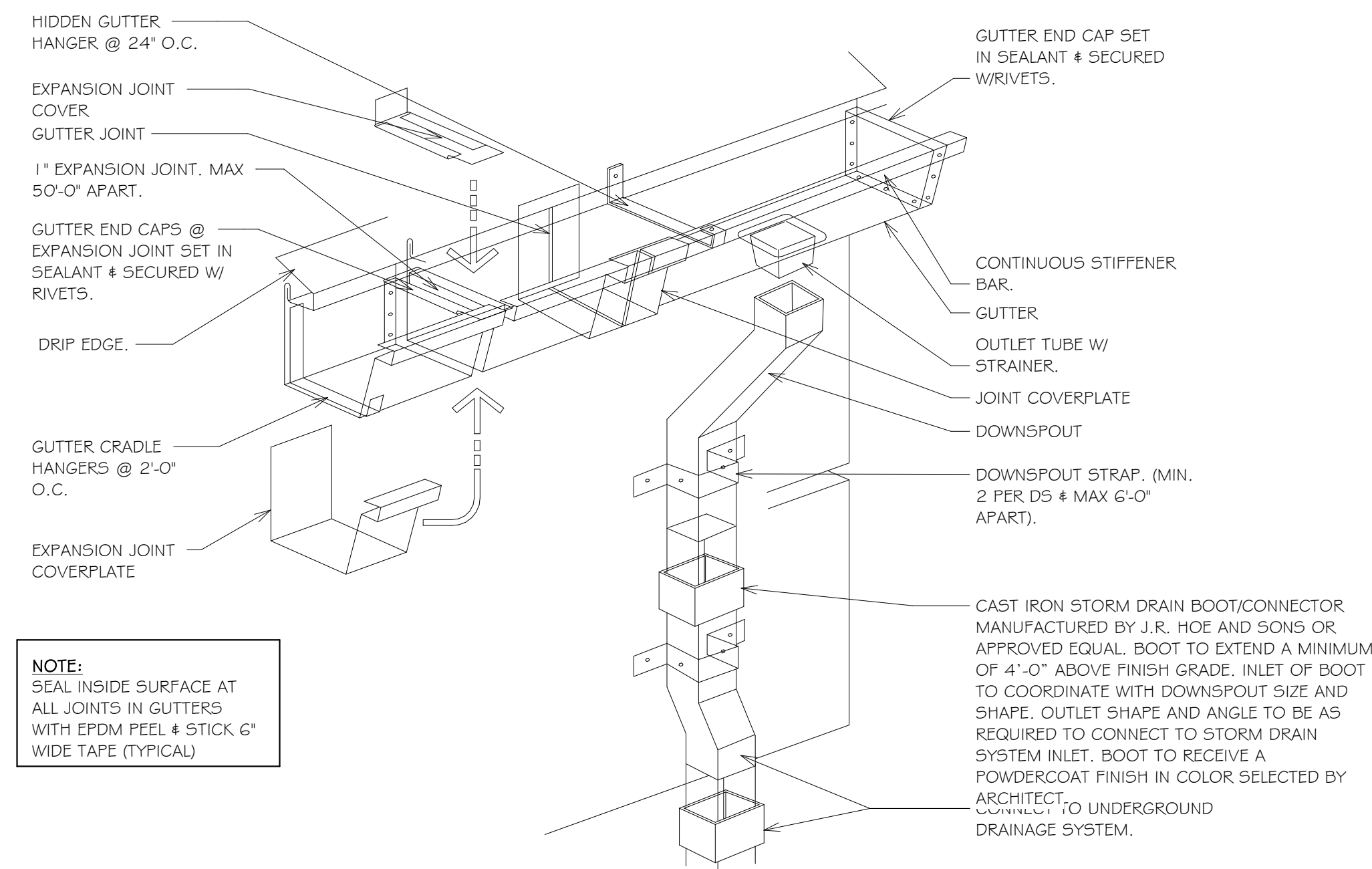
ISSUED FOR BID
April 18, 2024

SHEET TITLE
ROOF PLAN & DETAILS

DRAWN BY: KR	JOB NUMBER: 18050
CHECKED BY: MS	DATE: 05/01/2024

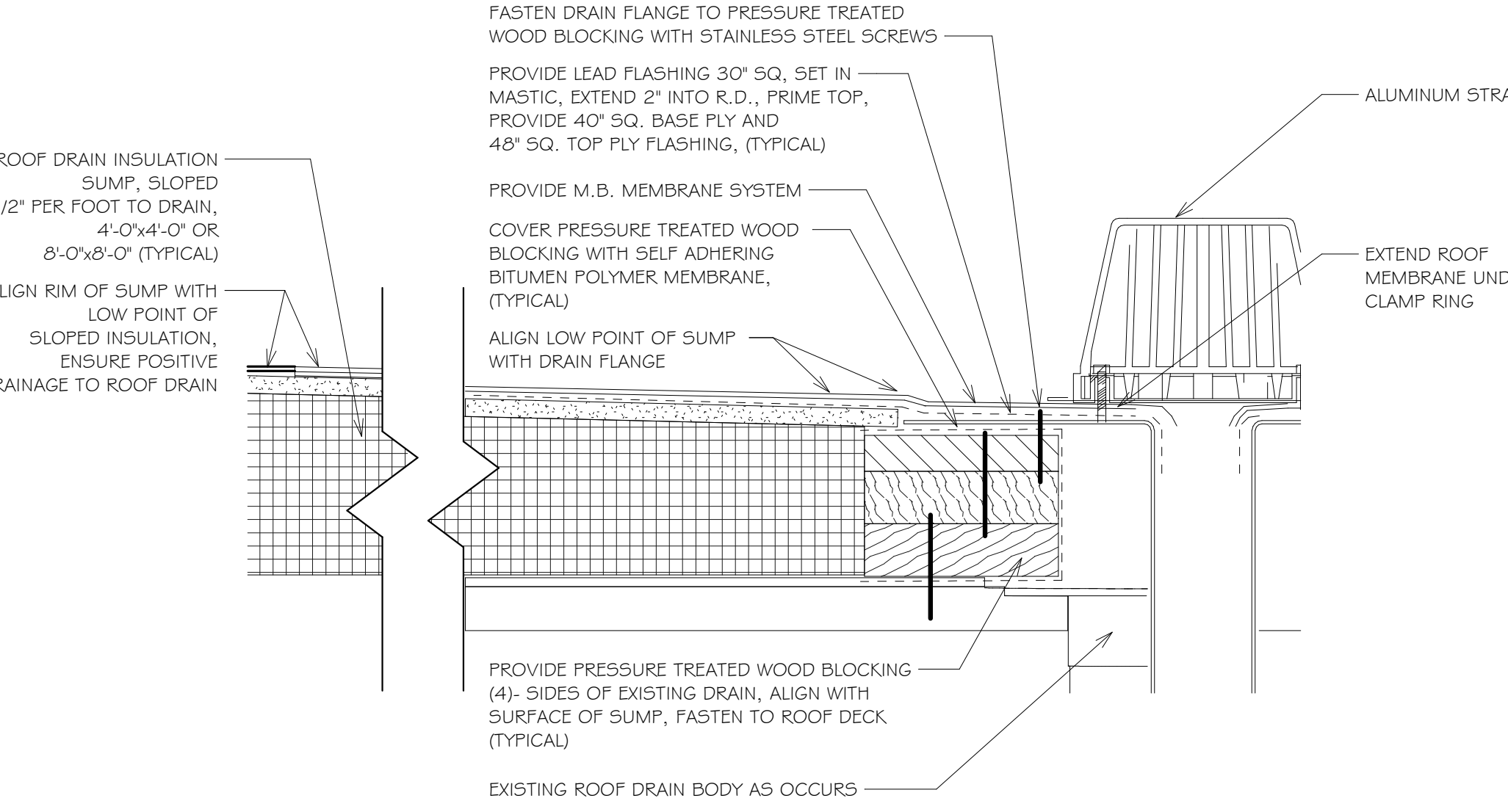
A-A5.0

SHEET: OF:

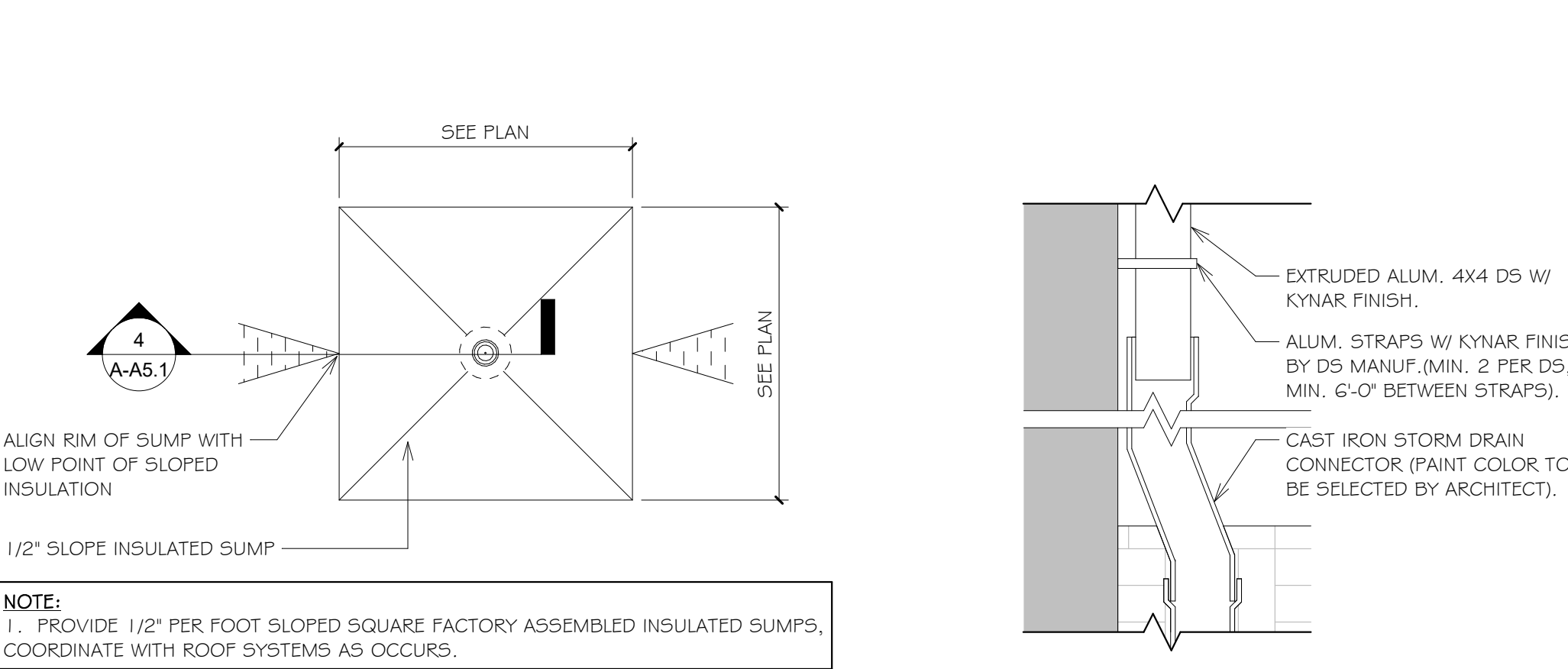


NOTE:
SEAL INSIDE SURFACE AT ALL JOINTS IN GUTTERS WITH EPDM PEEL & STICK 6\"/>

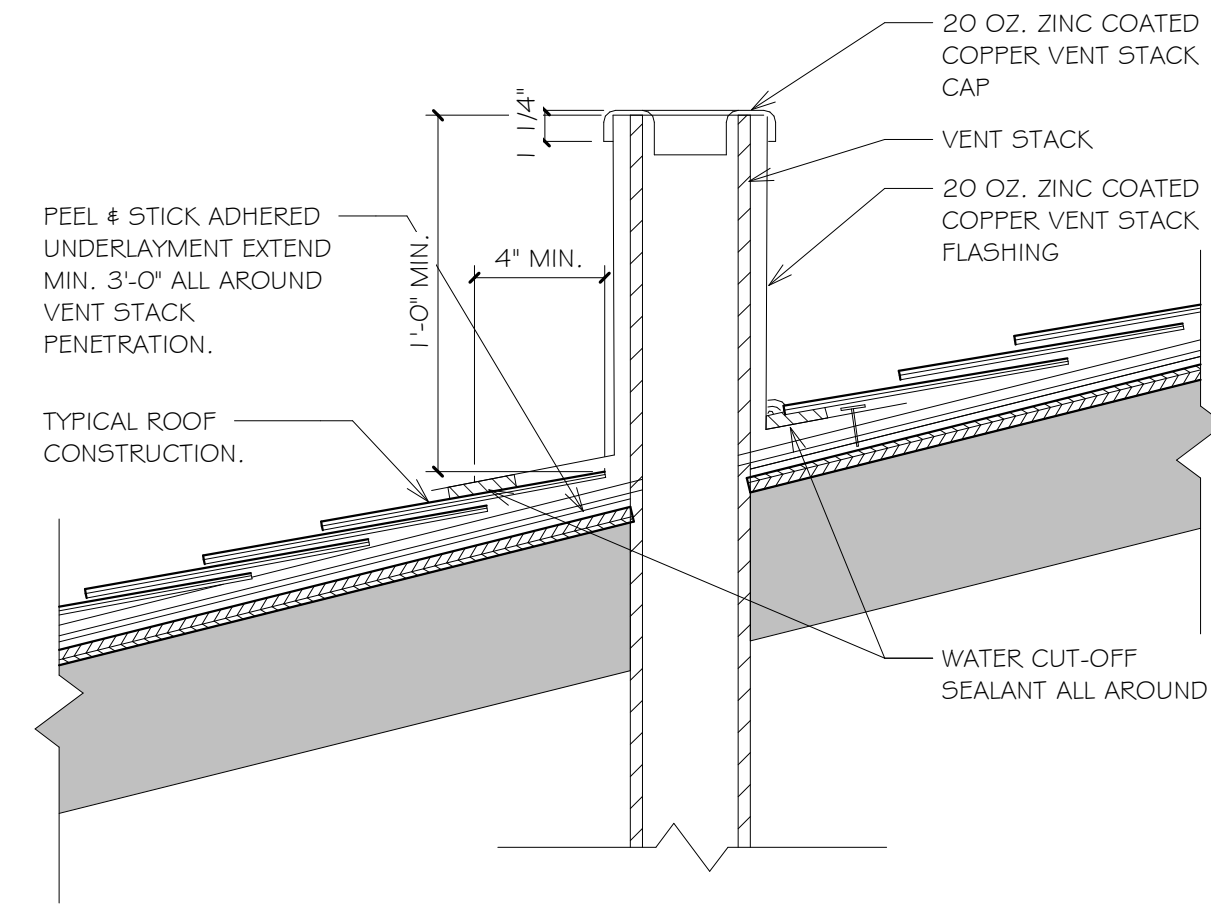
1 GUTTER/ EXP. JOINT & DOWNSPOUT TO CAST IRON BOOT
1 1/2\"/>



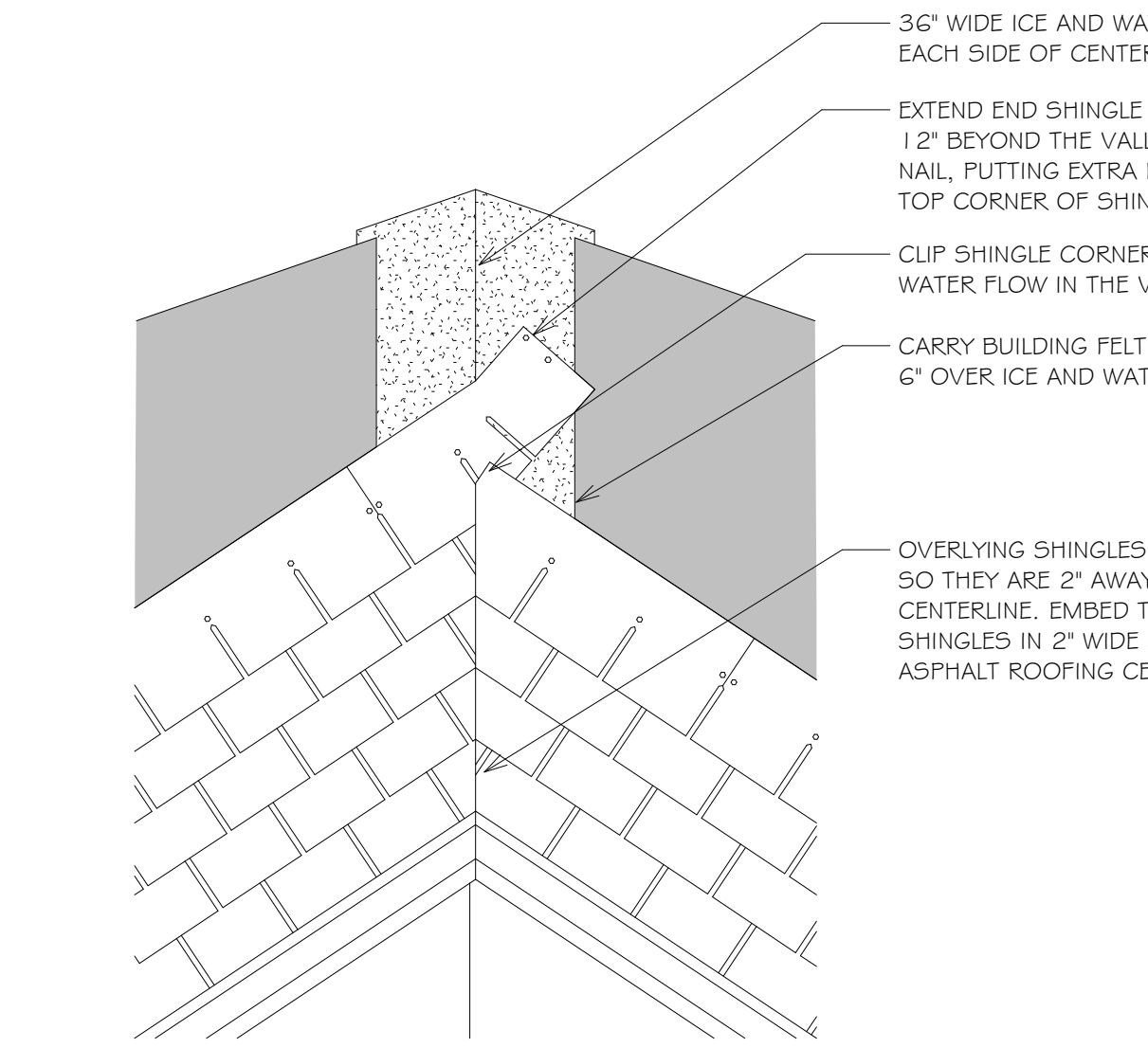
4 SUMP & ROOF DRAIN INSERT DETAIL
3\"/>



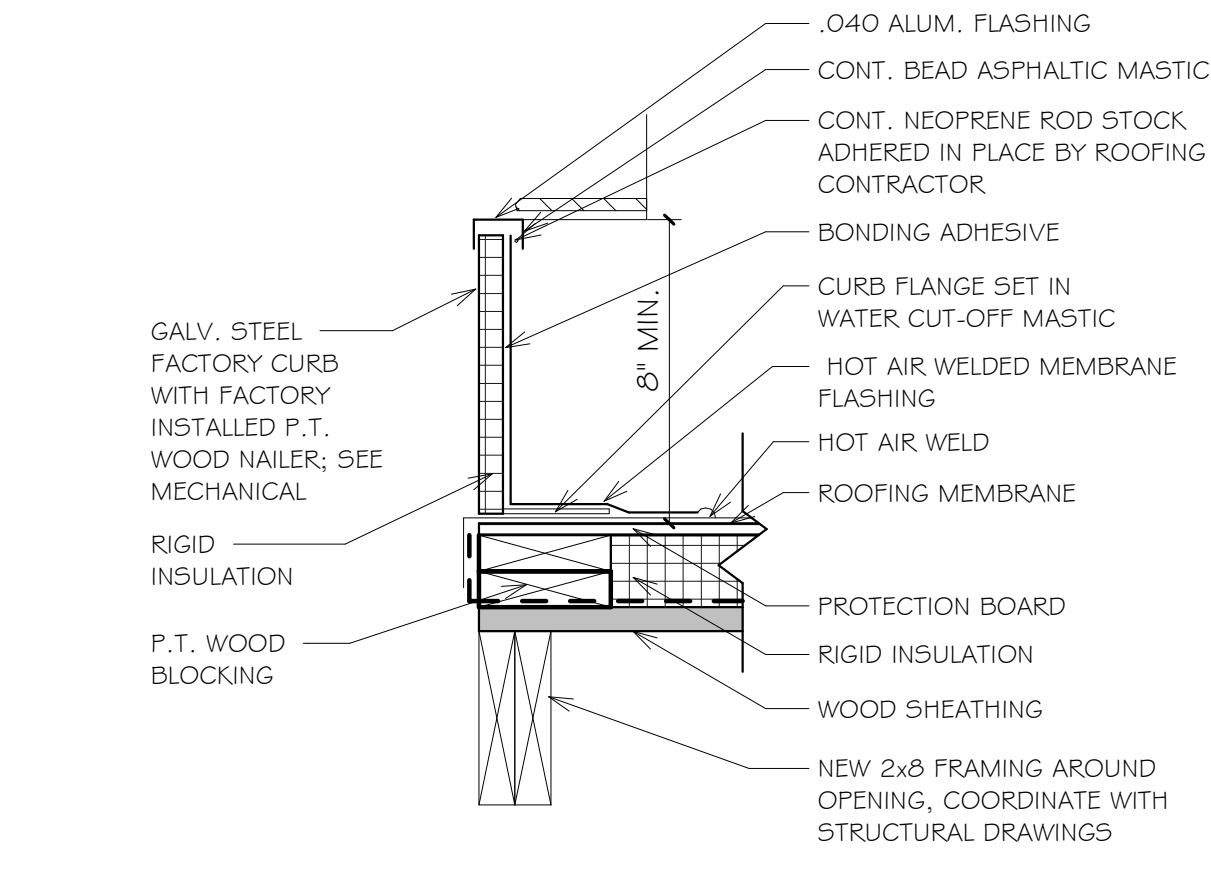
7 SUMP & ROOF DRAIN DETAIL
1/4\"/>



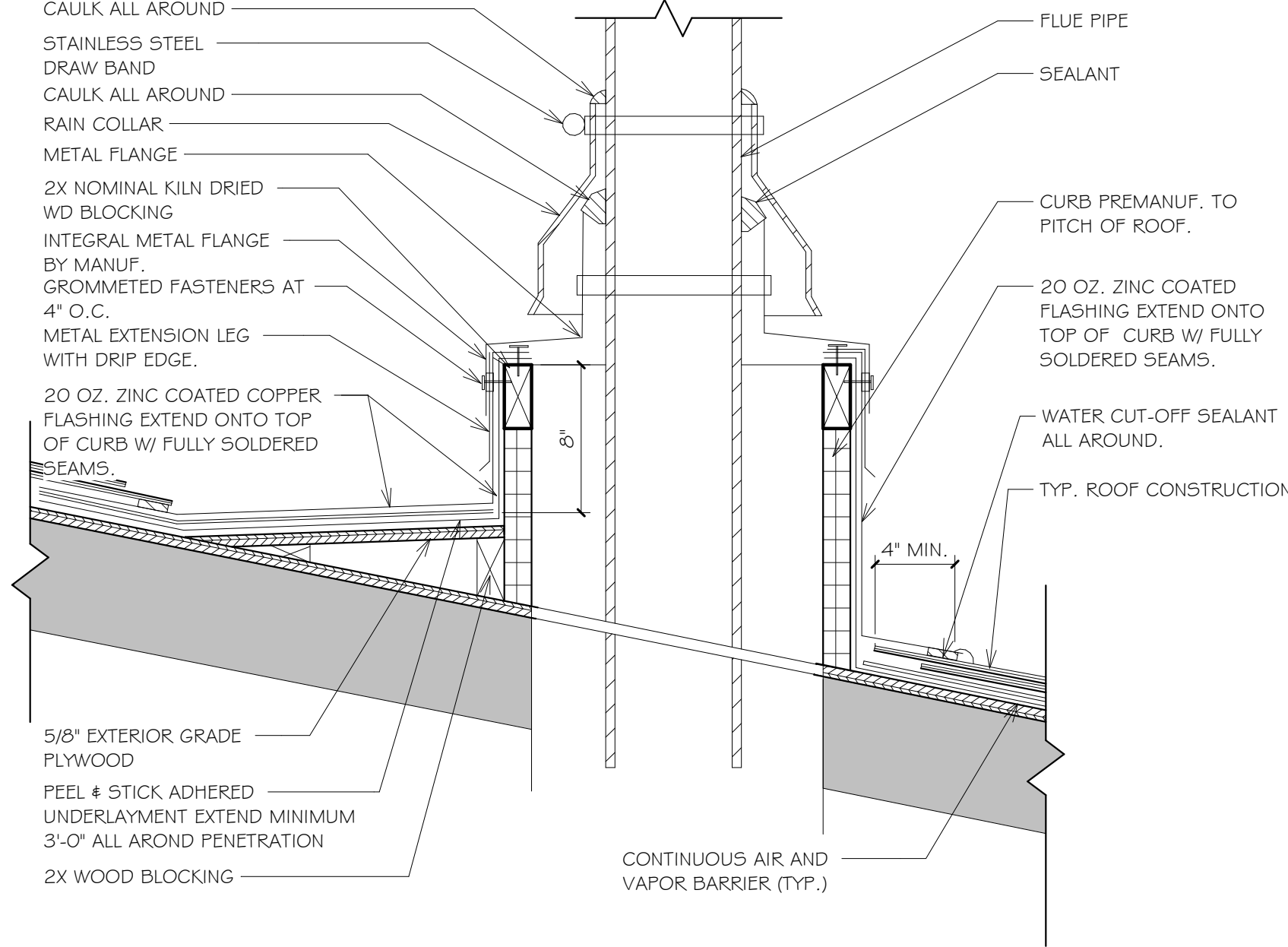
2 VENT STACK
1 1/2\"/>



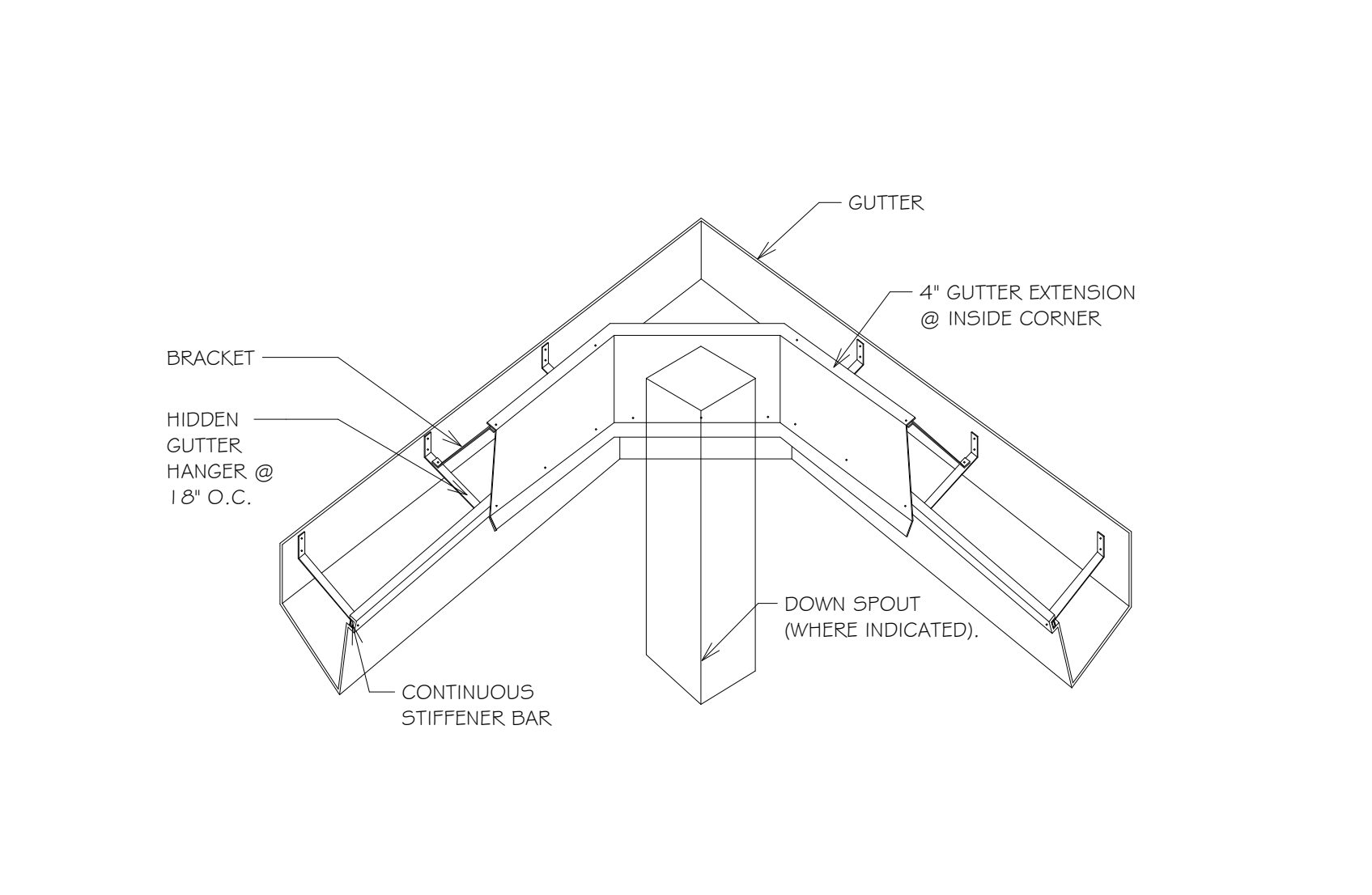
5 VALLEY DETAIL - CLOSED CUT
1 1/2\"/>



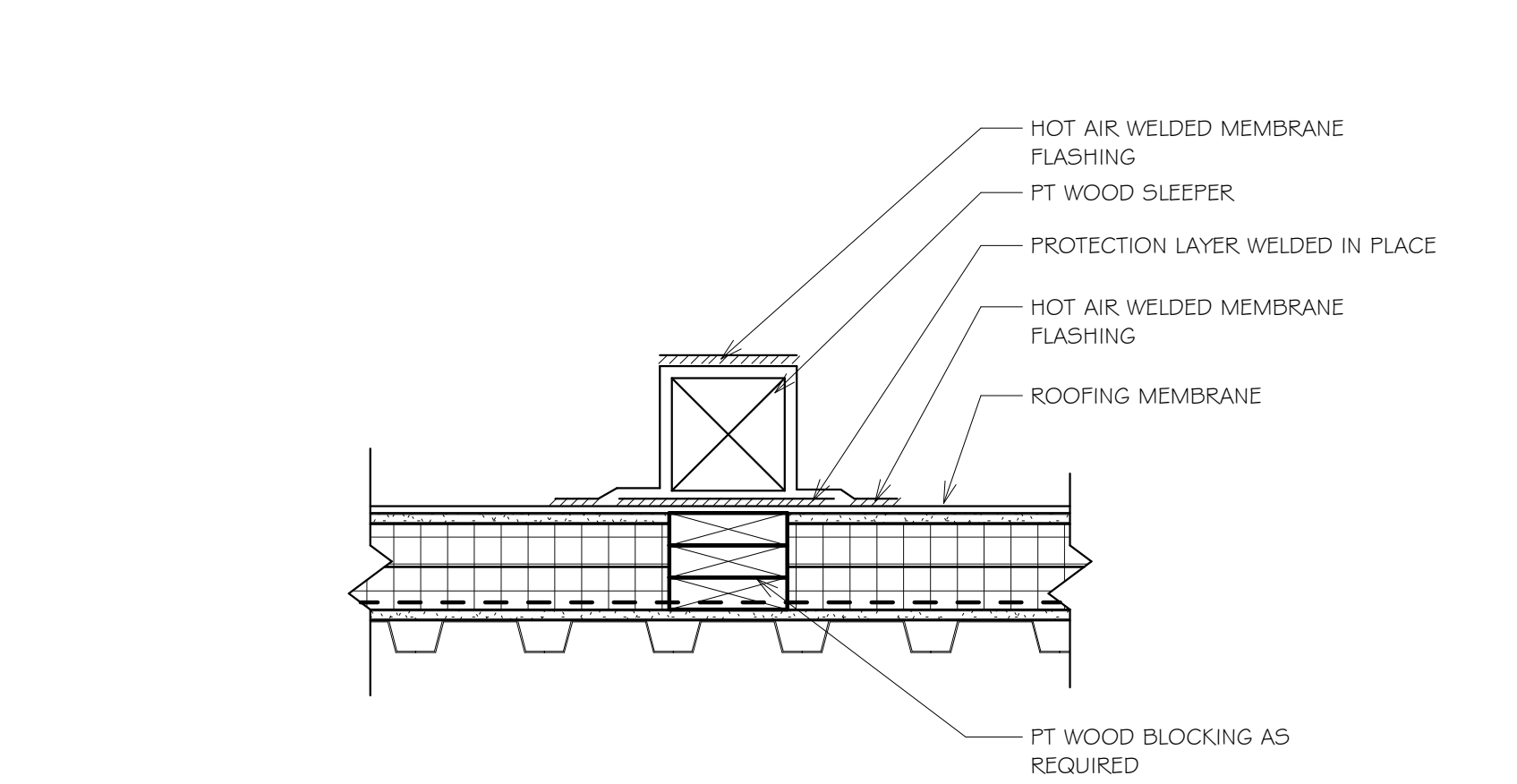
9 TYPICAL ROOF CURB DETAIL
1 1/2\"/>



3 FLUE STACK
1 1/2\"/>



6 GUTTER AT INSIDE CORNERS
1 1/2\"/>



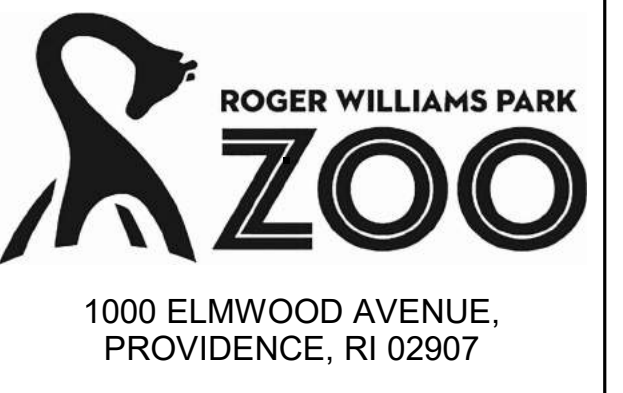
10 SLEEPER DETAIL
1 1/2\"/>



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SHEET TITLE
ROOF DETAILS

DRAWN BY: FK, KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A5.1

SHEET: OF:

SNAPNRACK FLASHED L FOOT FOR COMPOSTION ROOF MOUNTING

REFER TO SNAPNRACK ENGINEERING CHARTS FOR APPLICABLE RAIL SPANS. "BIN" NUMBER ON CHART SHOULD MATCH "BIN" NUMBER ON THIS DRAWING

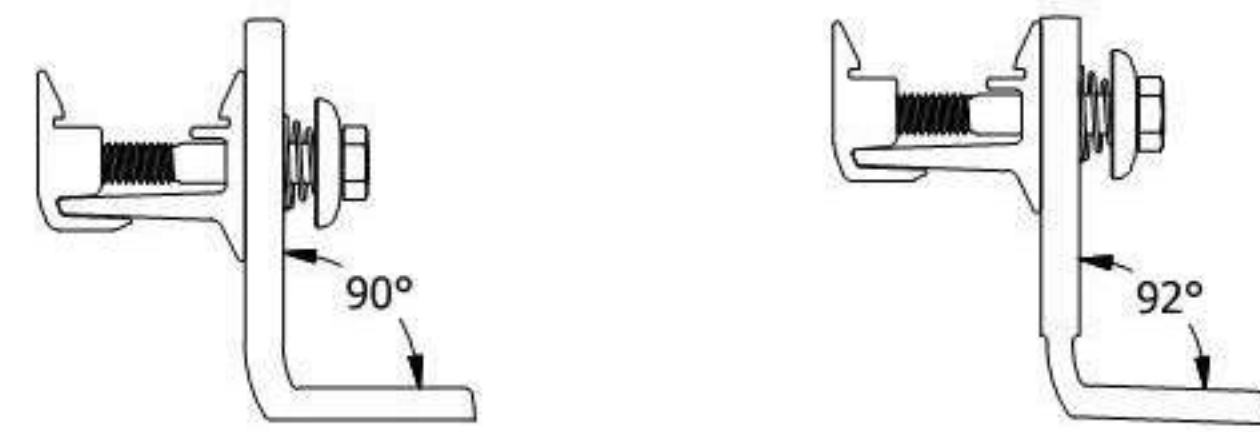
5/16"Ø S.S. LAG SCREW MUST EMBED A MIN. OF 2 1/2" INTO STRUCTURAL MEMBER

REFER TO SNAPNRACK INSTALLATION MANUAL FOR 5/16"Ø HARDWARE TORQUE SPECIFICATIONS

RAIL CAN BE MOUNTED ON EITHER SIDE OF THE L-FOOT

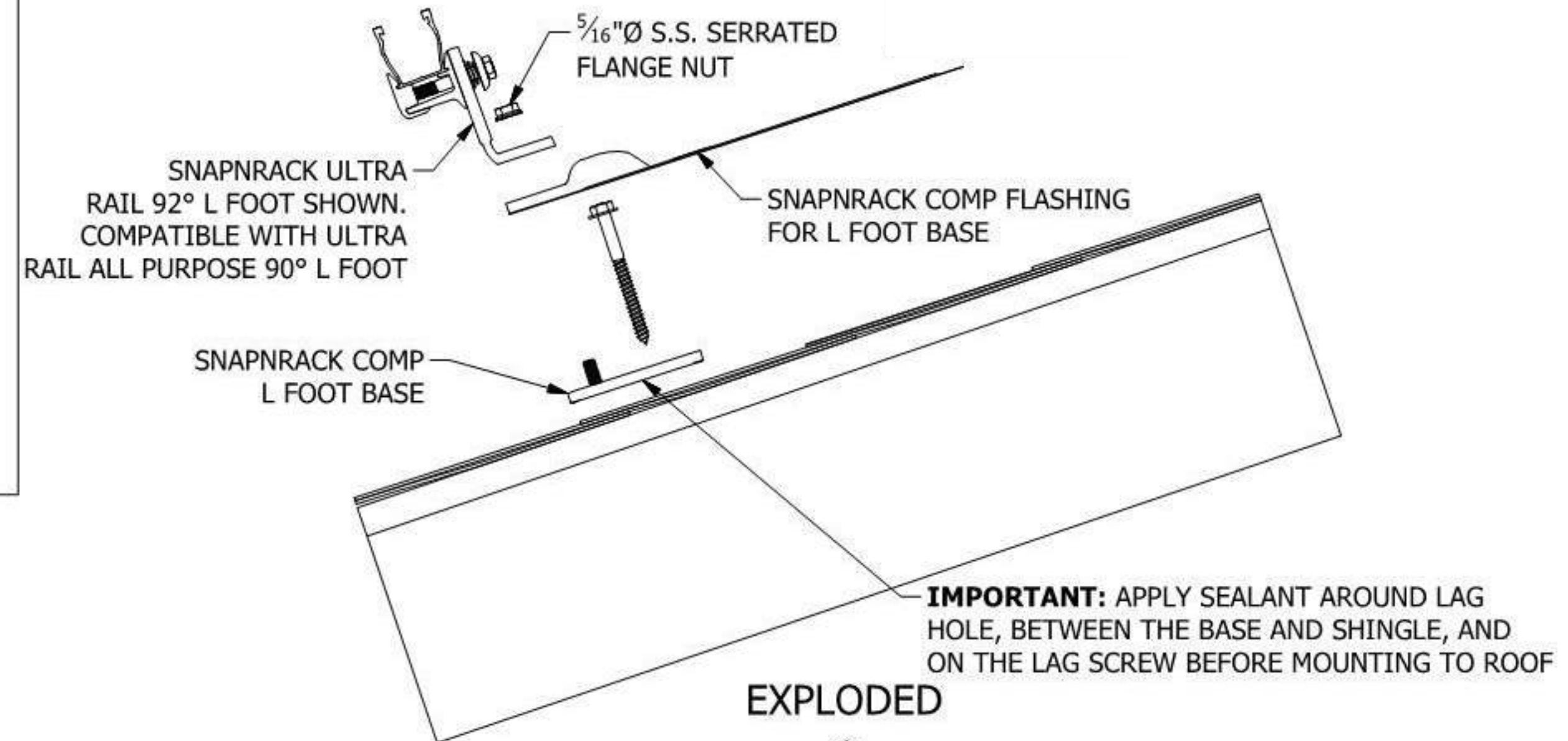
FOR LEVELING DETAILS, REFER TO SNAPNRACK DETAIL DRAWING "SNR-DC-00332 ULTRA RAIL, COMPONENT DETAIL, LEVELING EXTENSION KIT" AND/OR "SNR-DC-00333 ULTRA RAIL, COMPONENT DETAIL, LEVELING SPACER ON FLASHED L FOOT"

***THE FLASHED L FOOT BASE IS COMPATIBLE WITH THE FOLLOWING SNAPNRACK L FOOT ASSEMBLIES:**

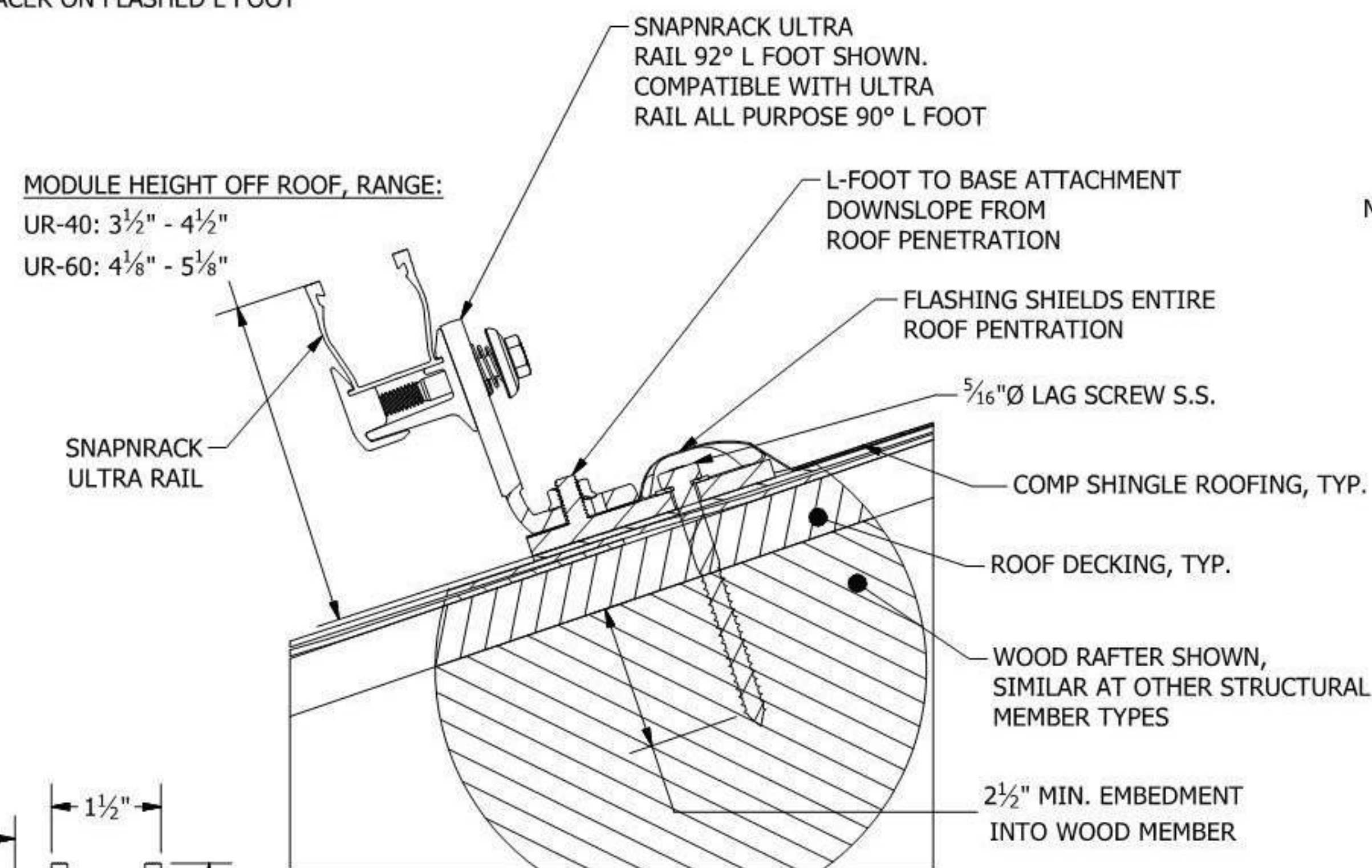


ULTRA RAIL ALL PURPOSE 90° L FOOT: BIN 5

ULTRA RAIL 92° L FOOT: BIN 3

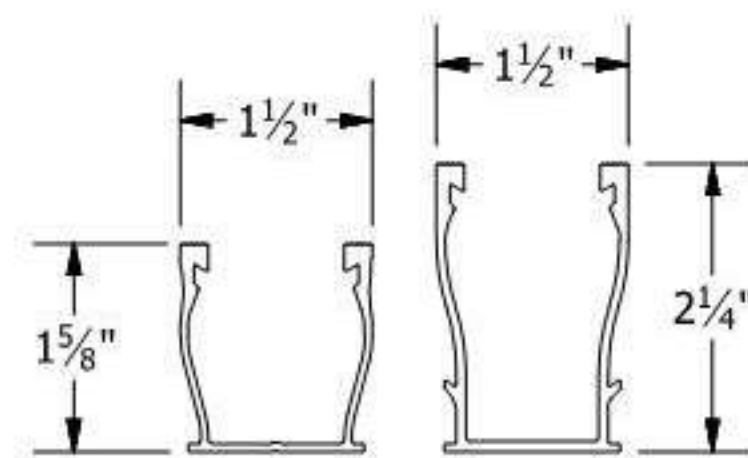


IMPORTANT: APPLY SEALANT AROUND LAG HOLE, BETWEEN THE BASE AND SHINGLE, AND ON THE LAG SCREW BEFORE MOUNTING TO ROOF

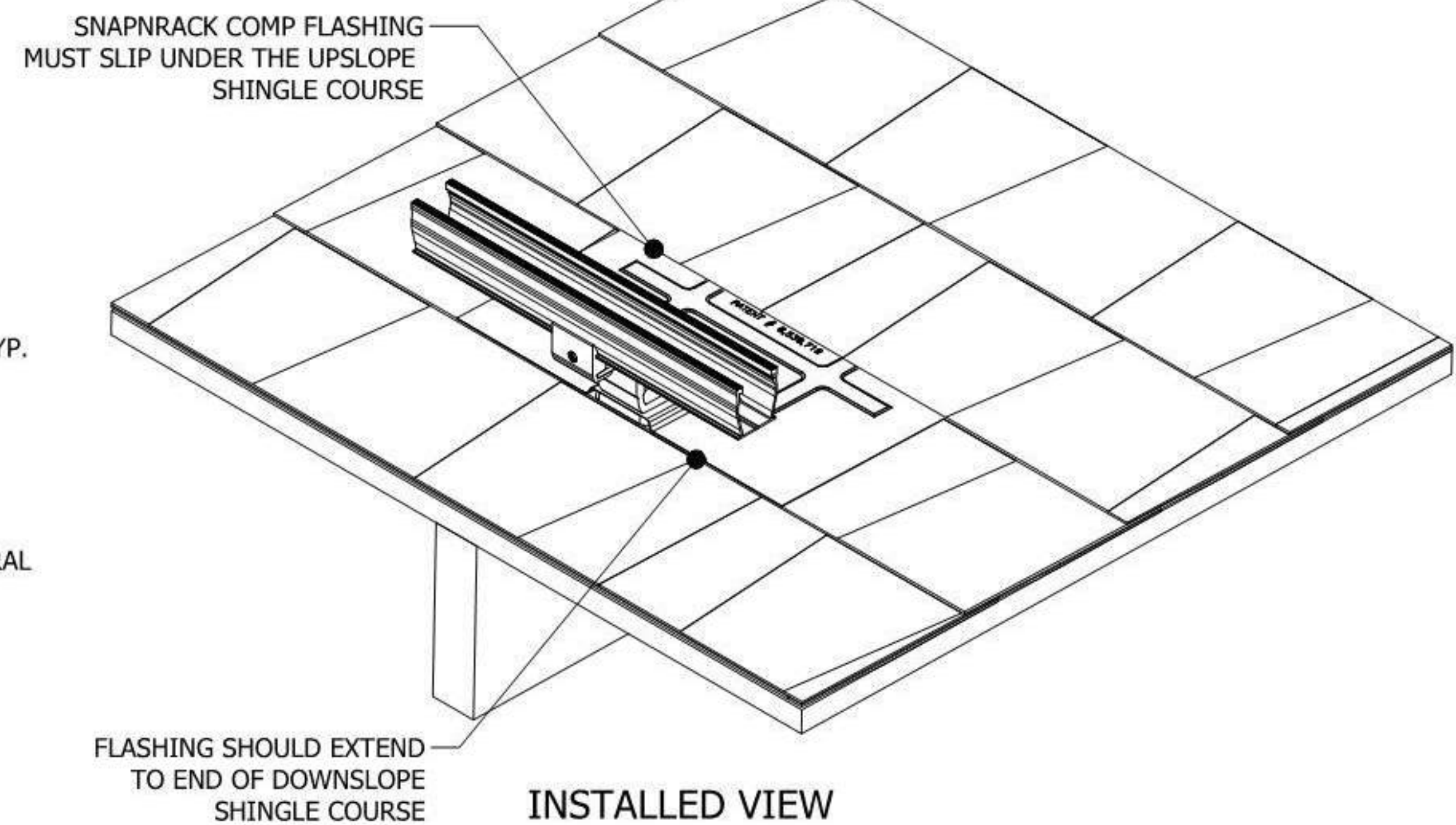


MODULE HEIGHT OFF ROOF, RANGE:
UR-40: 3 1/2" - 4 1/2"
UR-60: 4 1/8" - 5 1/8"

PENETRATION DETAIL

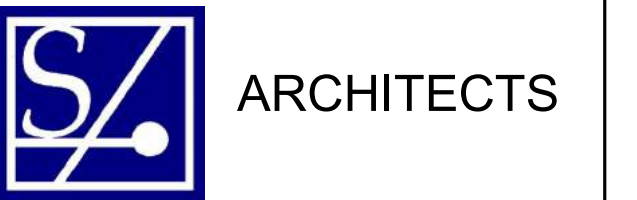


UR-40 RAIL | UR-60 RAIL
FOR USE WITH SNAPNRACK ULTRA SERIES RAILS



INSTALLED VIEW

1 PV MOUNTING DETAIL
1/2" = 1'-0"



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1000 ELMWOOD AVENUE,
PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

ISSUED FOR BID
April 18, 2024

SHEET TITLE
PV PANEL ROOF ATTACHMENT DETAIL

DRAWN BY: KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A5.2

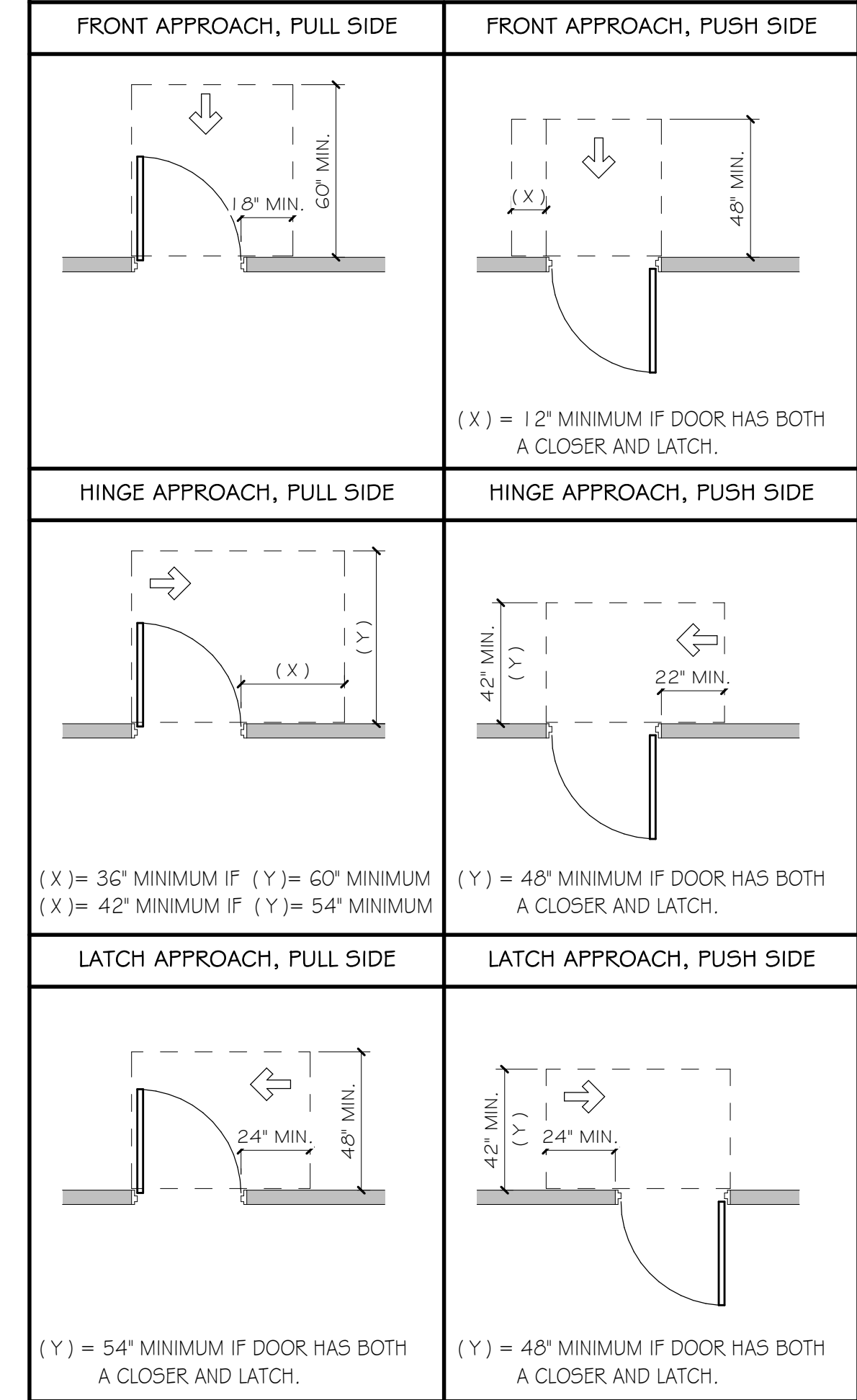
SHEET: OF:

DOOR SCHEDULE																	
NUMBER	TO ROOM	DOOR						FRAME			DETAILS			HARDWARE	COMMENTS		
		WIDTH	HEIGHT	THICKNESS	ELEV	MATERIAL	FINISH	GLAZING	ELEV	MATERIAL	FINISH	FIRE RATING	HEAD			JAMB	
A100	STAIR	6'-0"	7'-0"	0'-1 3/4"	D7	ALUM	FF	FR/SFTY	F3	ALUM	FF	45 MIN	H2	J2	4		
A103	PRE-K VESTIBULE	3'-0"	7'-0"	0'-1 3/4"	D5	ALUM	FF	TEMP	F7	ALUM	FF		H2	J2			
A104	PRE-K 1	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	7		
A104a	PRE-K 1	3'-0"	7'-0"	0'-1 3/4"	D5	ALUM	FF	IRG	F6	ALUM	FF				1	WEATHERSTRIPING	
A104b	STORAGE	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	20		
A106	PRE-K VESTIBULE	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2			
A106a	PRE-K 2	3'-0"	7'-0"	0'-1 3/4"	D5	ALUM	FF	INSUL	F6	ALUM	FF				1	WEATHERSTRIPING	
A106b	STORAGE	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	IRG	F1	HM	PNT		H2	J2	20		
A107	CLASSROOM 3	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	7		
A107a	CLASSROOM 3	3'-0"	7'-0"	0'-1 3/4"	D5	ALUM	FF	INSUL	F6	ALUM	FF				1	WEATHERSTRIPING	
A108	CLASSROOM 4	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	7		
A108a	CLASSROOM 4	3'-0"	7'-0"	0'-1 3/4"	D5	ALUM	FF	IRG	F6	ALUM	FF				1	WEATHERSTRIPING	
A109	CLASSROOM 5	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F7	HM	PNT		H2	J2	7		
A109a	CLASSROOM 5	3'-0"	7'-0"	0'-1 3/4"	D5	ALUM	FF	IRG	F6	ALUM	FF				1	WEATHERSTRIPING	
A110	CORRIDOR	3'-0"	7'-0"	0'-1 3/4"	D5	ALUM	FF	IRG	F1	ALUM	FF				1	WEATHERSTRIPING	
A111	ELEV MECH	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	11		
A113	JANITOR	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	12		
A114	MENS	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	8		
A115	WOMENS	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	8		
A116	MECHANICAL	3'-0"	7'-0"	0'-1 3/4"	D1	HM	PNT	-	F1	HM	PNT		H2	J2	12		
A117	MECHANICAL	6'-0"	7'-0"	0'-1 3/4"	D1	GHM	PNT	-	F3	GHM	PNT				24	WEATHERSTRIPING	
A118	TOILET	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	15		
A119	TOILET	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	16		
A120	NURSE	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	25		
A121	BREAKROOM	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	9		
A122	STORAGE	6'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F3	HM	PNT		H2	J2	14		
A123	STOR.	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	12		
A200	VEST.	6'-0"	7'-6"	0'-1 3/4"	D7	ALUM	FF	INSUL		ALUM	FF				2	WEATHERSTRIPING	
A200a	LOBBY	6'-0"	7'-6"	0'-1 3/4"	D7	ALUM	FF	TEMP		ALUM	FF		H2	J2	1		
A202	TOILET	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	15		
A203	CORRIDOR	3'-0"	7'-0"	0'-1 3/4"	D4	WD	S4F	TEMP	F1	HM	PNT		H2	J2	3		
A204	TOILET	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	15		
A205	OFFICE 6	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	10		
A206	OFFICE 5	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	10		
A207	CONF. RM	3'-0"	7'-0"	0'-1 3/4"	D4	WD	S4F	TEMP	F1	HM	PNT		H2	J2	10		
A208	OFFICE 4	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	10		
A209	OFFICE 3	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	10		
A210	OFFICE 2	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	10		
A211	OFFICE 1	3'-0"	7'-0"	0'-1 3/4"	D3	WD	S4F	TEMP	F1	HM	PNT		H2	J2	10		
A213	MECHELEC	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F	-	F1	HM	PNT		H2	J2	12		
A214	OPEN OFFICE	3'-0"	7'-0"	0'-1 3/4"	D4	WD	S4F	TEMP	F1	HM	PNT		H2	J2	3		
A215	ENRICHMENT AREA	3'-0"	7'-6"	0'-1 3/4"	D4	ALUM	FF	TEMP		ALUM	FF		H2	J2	1		
A216	OFFICE	3'-0"	7'-0"	0'-1 3/4"	D2	WD	S4F	TEMP	F1	HM	PT		H2	J2	25		

SCHEDULE LEGEND

- = NO WORK NEEDED
- ACT = ACOUSTICAL CEILING TILE
- ACTT = ACOUSTICAL CEILING TILE-REGULAR
- ALUM = ALUMINUM
- B = BASE
- CBB = CEMENTITIOUS BACKER BOARD
- CMU = CONCRETE MASONRY UNIT
- CONC = CONCRETE
- CFT = CERAMIC FLOOR TILE
- CWT = CERAMIC WALL TILE
- CRPT = BROADCAST CARPET
- CPTT = CARPET TILE
- ECT = ENTRANCE CARPET TILE
- EXT = EXISTING
- FF = FACTORY FINISHED
- FIN = FINISH
- FLR = FLOOR
- FRP = FIBERGLASS REINFORCED PANEL
- FRS = FIRE-RATED SAFETY GLASS
- GWB = GYPSUM WALL BOARD
- GHM = GALVANIZED HOLLOW METAL
- HM = HOLLOW METAL
- IRG = IMPACT RESISTANT GLASS
- INSUL = INSULATED
- MAT = MASONRY
- MRT = MATERIAL
- MRT = MOISTURE RESISTANT TILE
- OTS = OPEN TO STRUCTURE
- FT = FAINT
- RAF = RESILIENT ATHLETIC FLOORING
- RM = ROOM
- RMK = REMARK
- S4F = STAIN & FINISH
- SDT = STATIC DISSIPATING TILE
- SEAL = SEALED CONCRETE
- SS = SOLID SURFACING MATERIAL (QUARTZ)
- SV = SHEET VINYL
- SWG = SPECIAL WALL GLAZE
- TEMP = TEMPERED
- VAS = VERIFY AT SITE
- VCB = VINYL COVE BASE
- VCT = VINYL COMPOSITE TILE
- VT = VINYL TILE
- VVC = VINYL WALL COVERING
- WD = WOOD

REQUIRED CLEARANCES AT DOORS



DOOR SCHEDULE NOTES

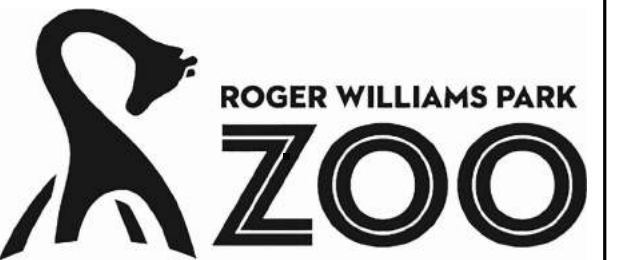
1. ANY DOOR (UNLESS EXISTING) FOUND ON OTHER DRAWINGS BUT NOT INDICATED ON THE DOOR SCHEDULE SHALL BE CONSIDERED MINIMALLY AS A 3'-0" x 7'-0" DOOR, HAVING A CLEAR COATED SOLID WOOD SLAB WITH A PAINTED HOLLOW METAL FRAME. NOTIFY ARCHITECT OF MISSING DOOR PRIOR TO ORDERING DOOR OR COMMENCING WORK.
2. ALL DOOR FRAMES SCHEDULED TO BE INSTALLED IN MASONRY WALLS SHALL HAVE 4" HEAD HEIGHTS.
3. ALL DOOR FRAME ASSEMBLIES ARE TO BE MINIMUM LABEL NOTED FOR ITS DOOR.
4. ALL DOOR GLAZING IS TO BE MINIMUM LABEL NOTED FOR ITS DOOR.
5. ALL WD DOORS ARE SOLID CORE WOOD DOORS AND ARE TO RECEIVE CLEAR FINISHES.
6. ALL HM DOORS AND FRAMES ARE TO BE PAINTED.
7. FIRE RATINGS AND EXIT DEVICES SHALL BE PROVIDED PER THE APPLICABLE CODE.



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 PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

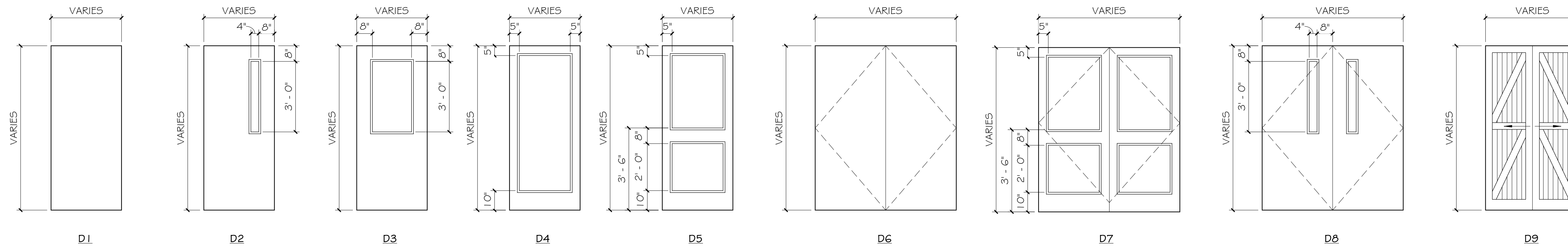
ISSUED FOR BID
 April 18, 2024

SHEET TITLE
 DOOR SCHEDULE

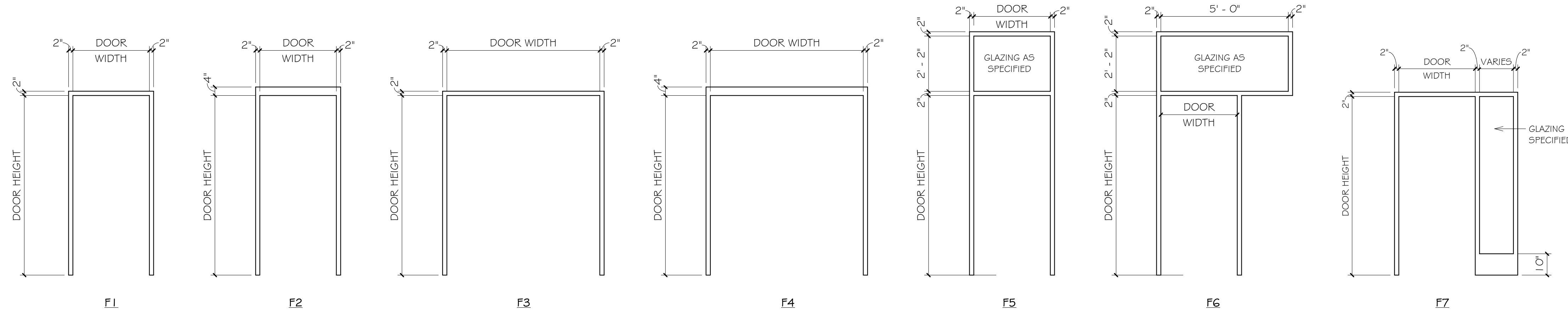
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 CHECKED BY: MS DATE: 05/01/2024

A-A6.0

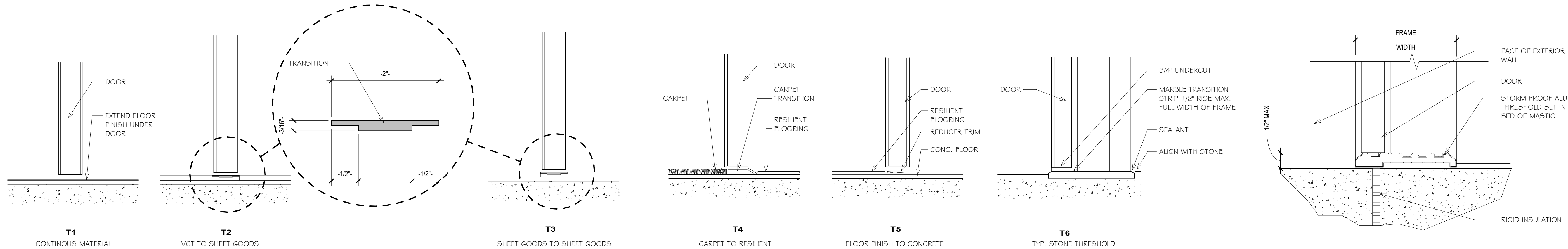
SHEET: OF:



1
A-A6.1
DOOR TYPES
3/8" = 1'-0"

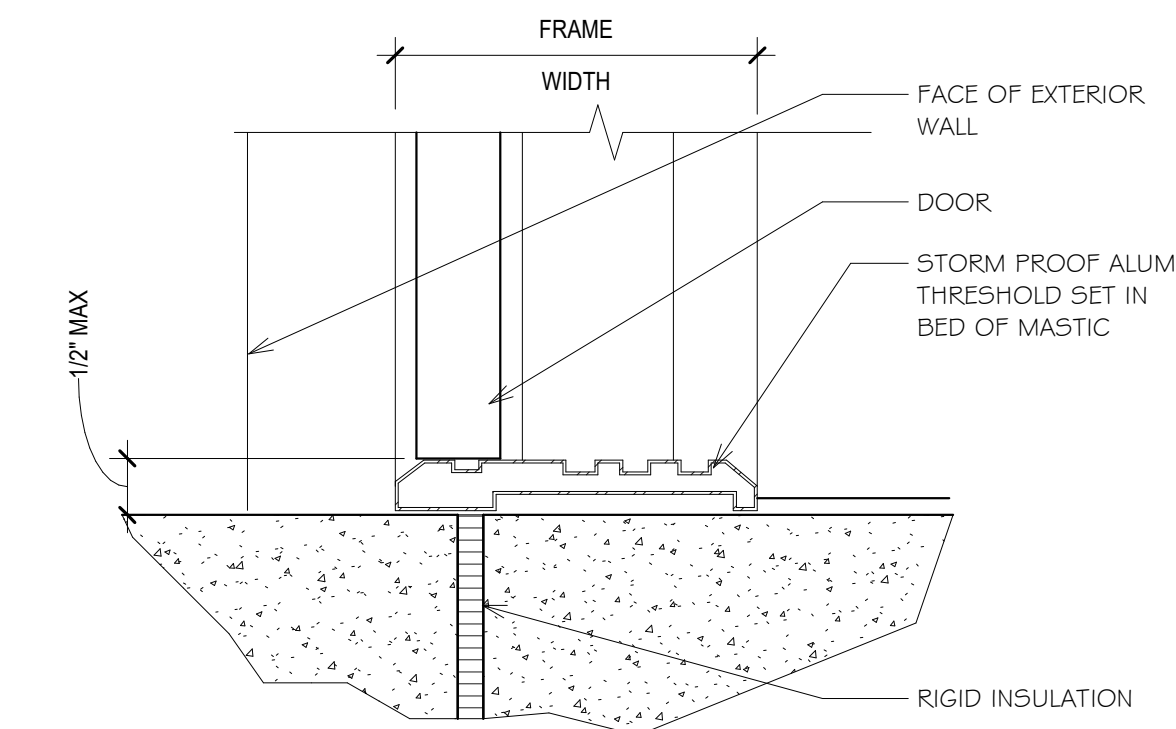


2
A-A6.1
FRAME TYPES
3/8" = 1'-0"



3
A-A6.1
INTERIOR THRESHOLD DETAILS
3" = 1'-0"

4
A-A6.1
EXTERIOR THRESHOLDS
3" = 1'-0"



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Revision Schedule

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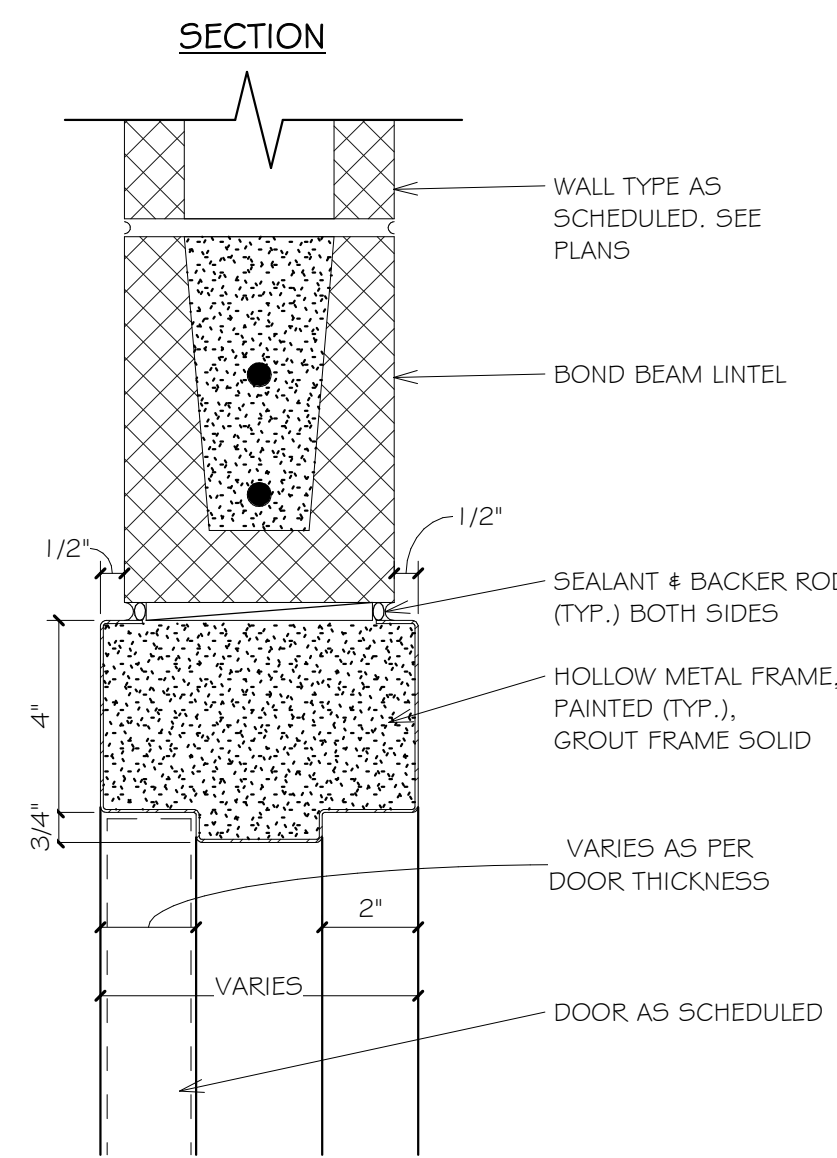
ISSUED FOR BID
April 18, 2024

SHEET TITLE
DOOR & FRAME TYPES

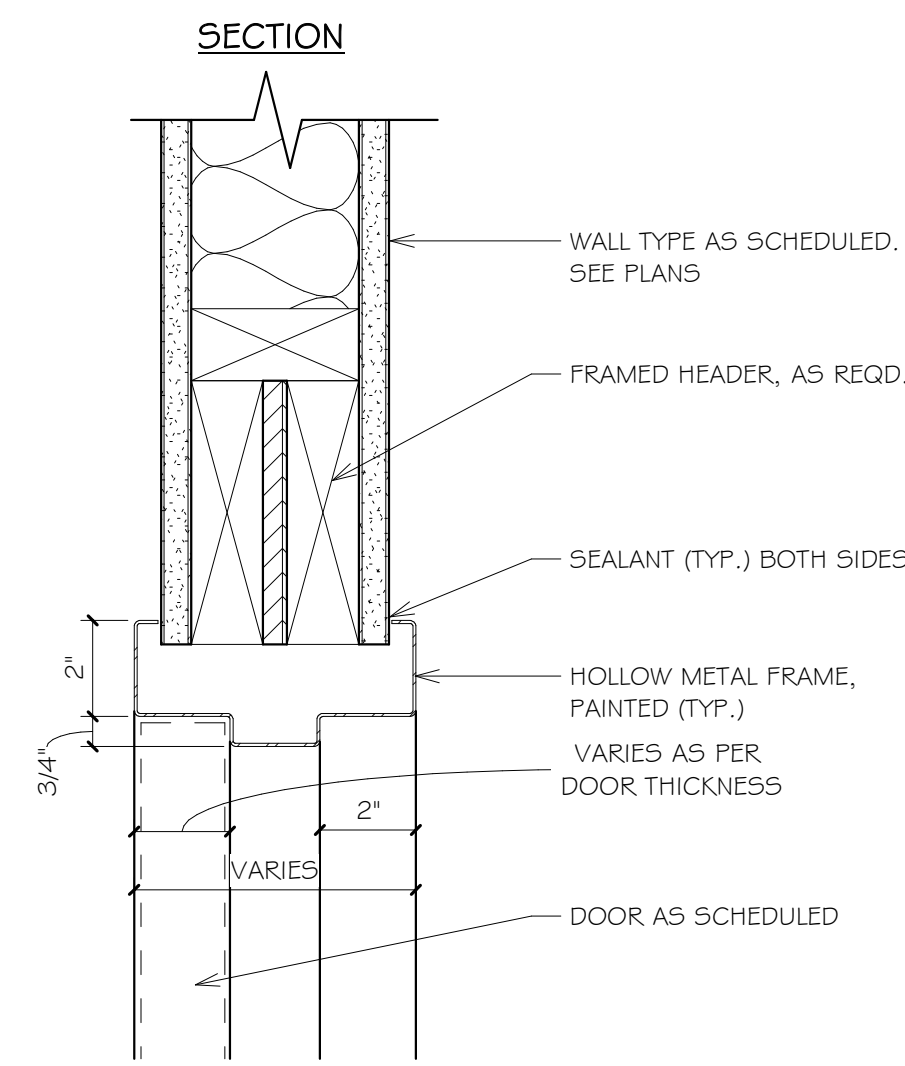
DRAWN BY: FK, KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A6.1

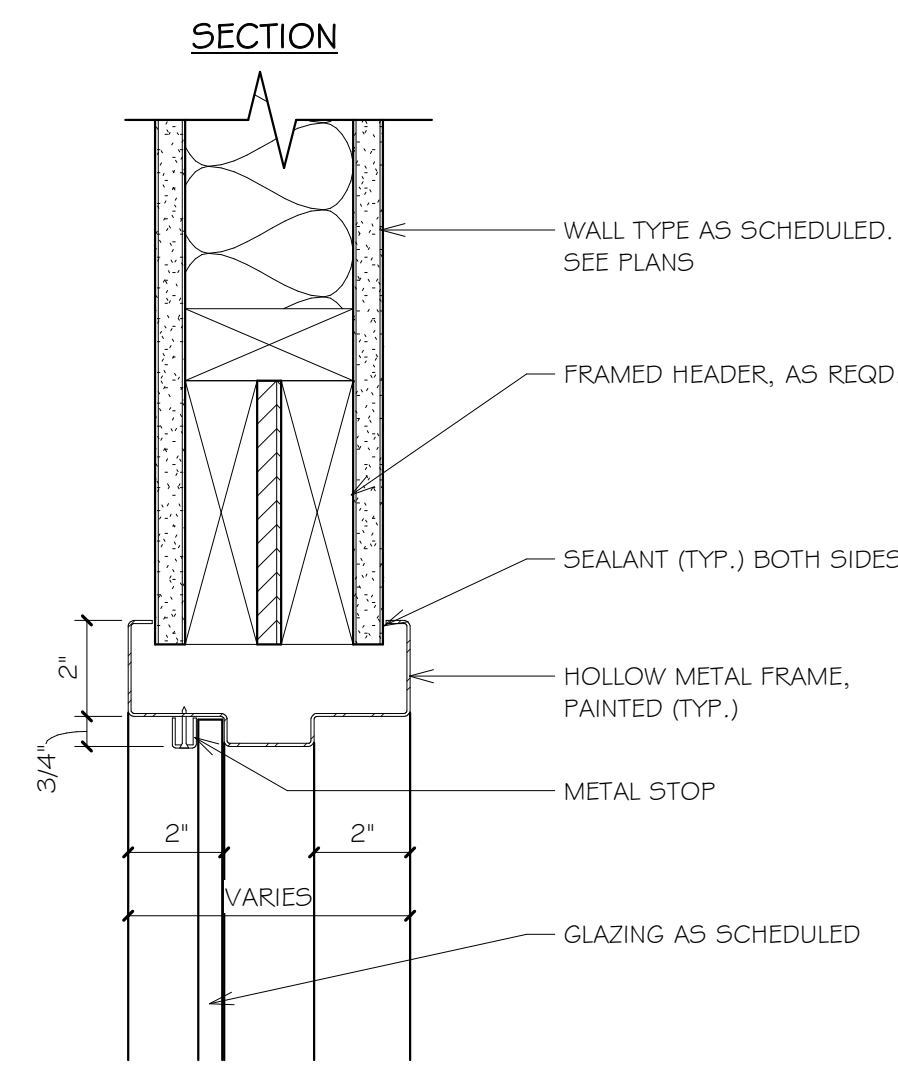
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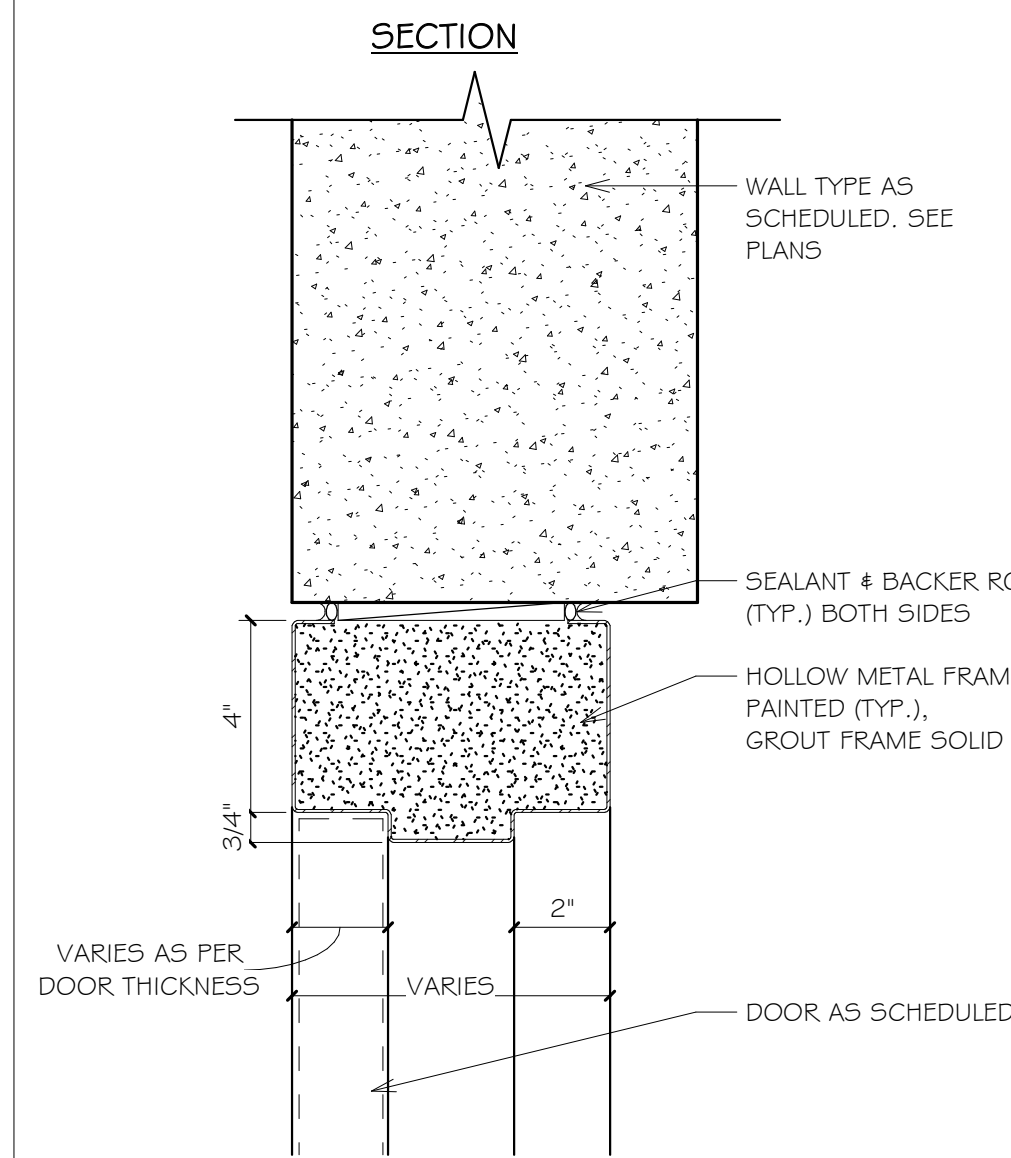
H1 DOOR HEAD DETAIL @ MASONRY PARTITION



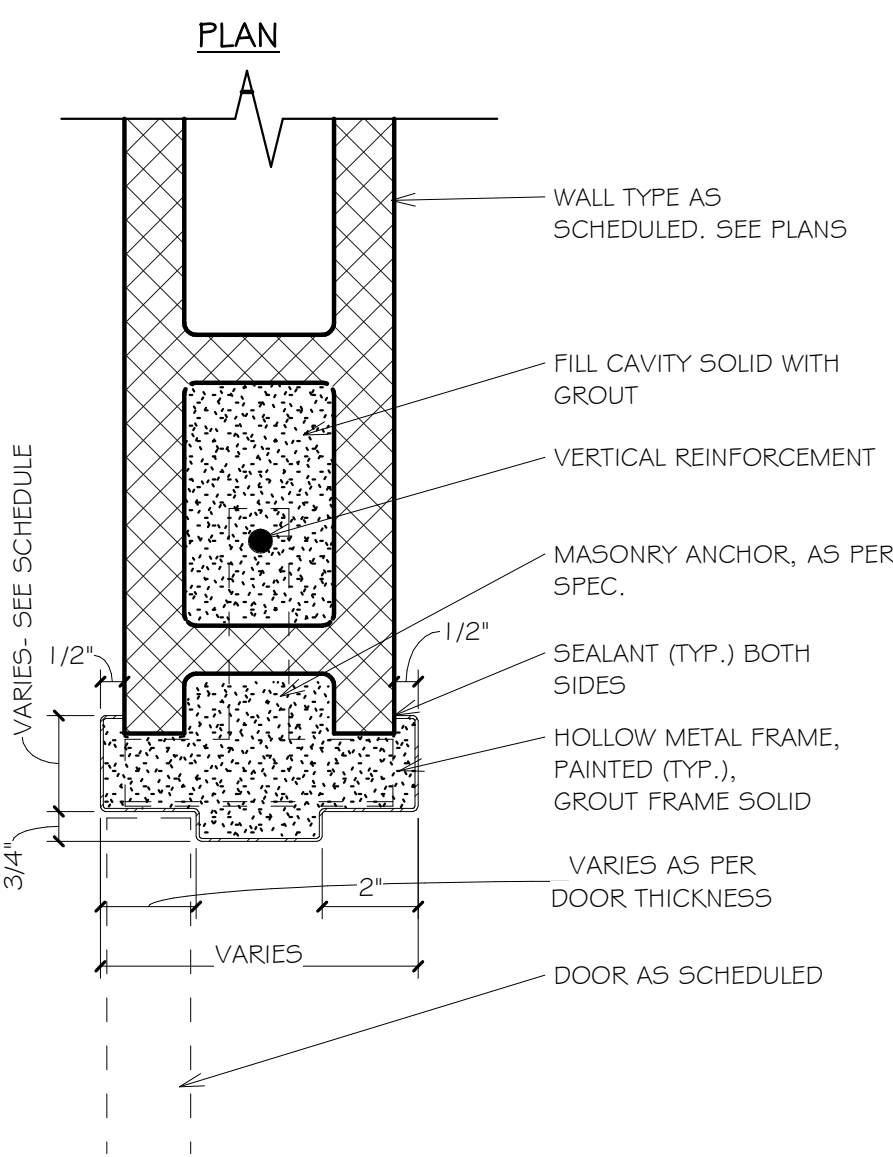
H2 DOOR HEAD DETAIL @ STUD PARTITION



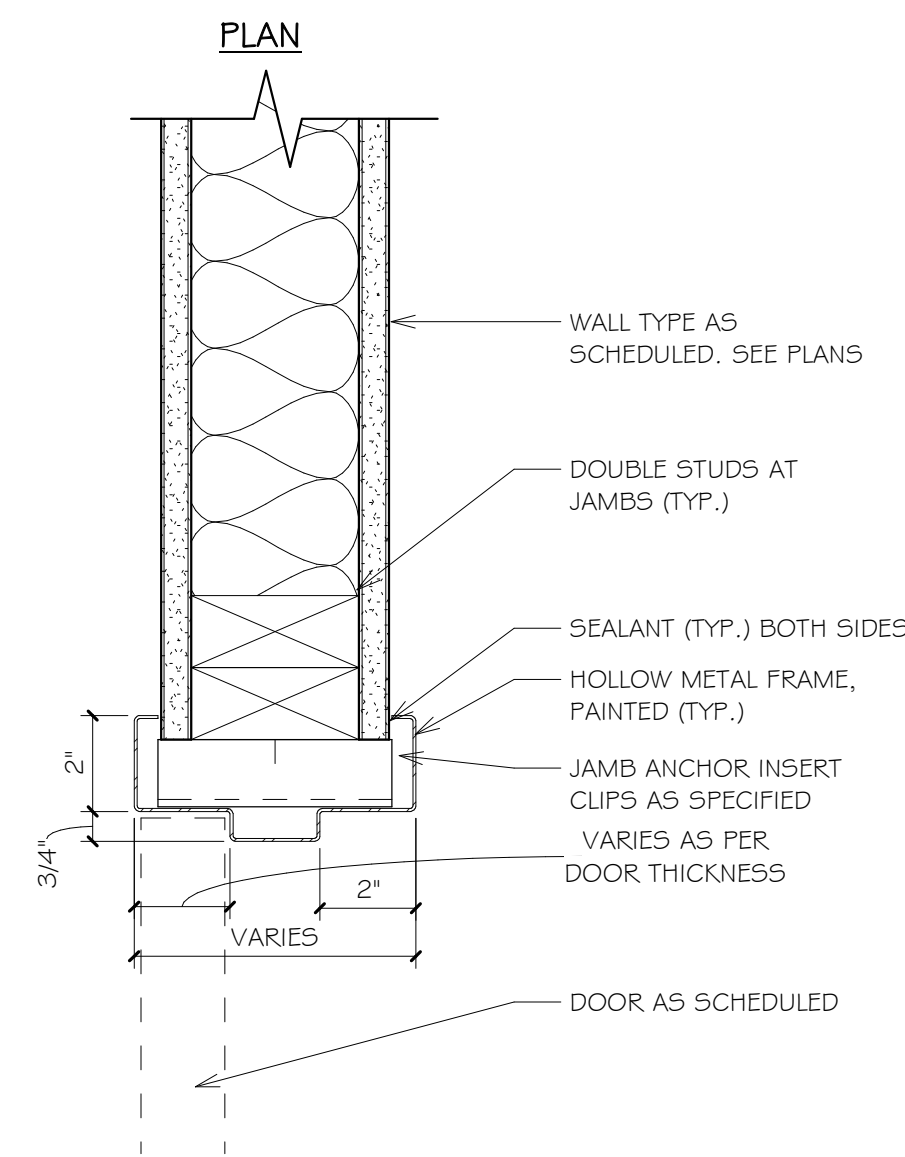
H3 SIDELITE / WINDOW HEAD DETAIL @ STUD PARTITION



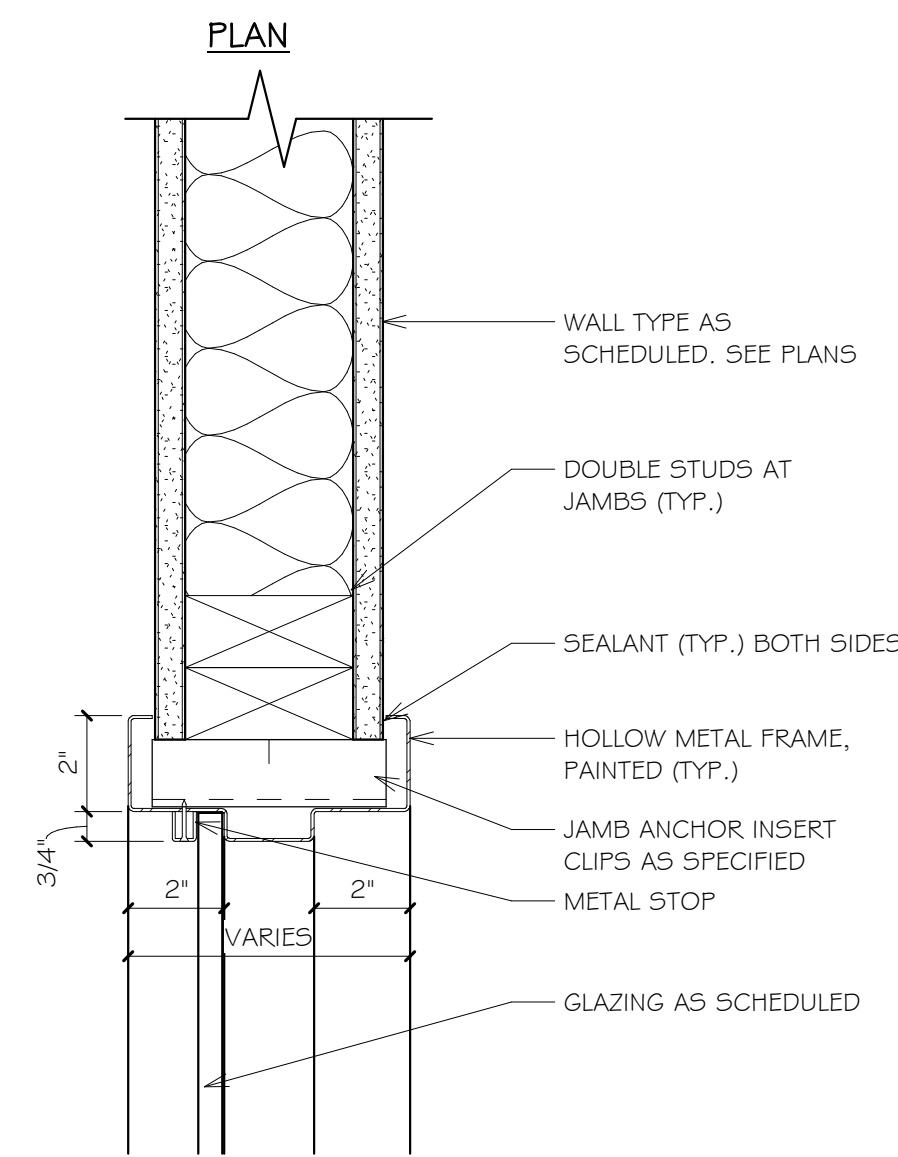
H4 DOOR HEAD DETAIL @ FOUNDATION WALL



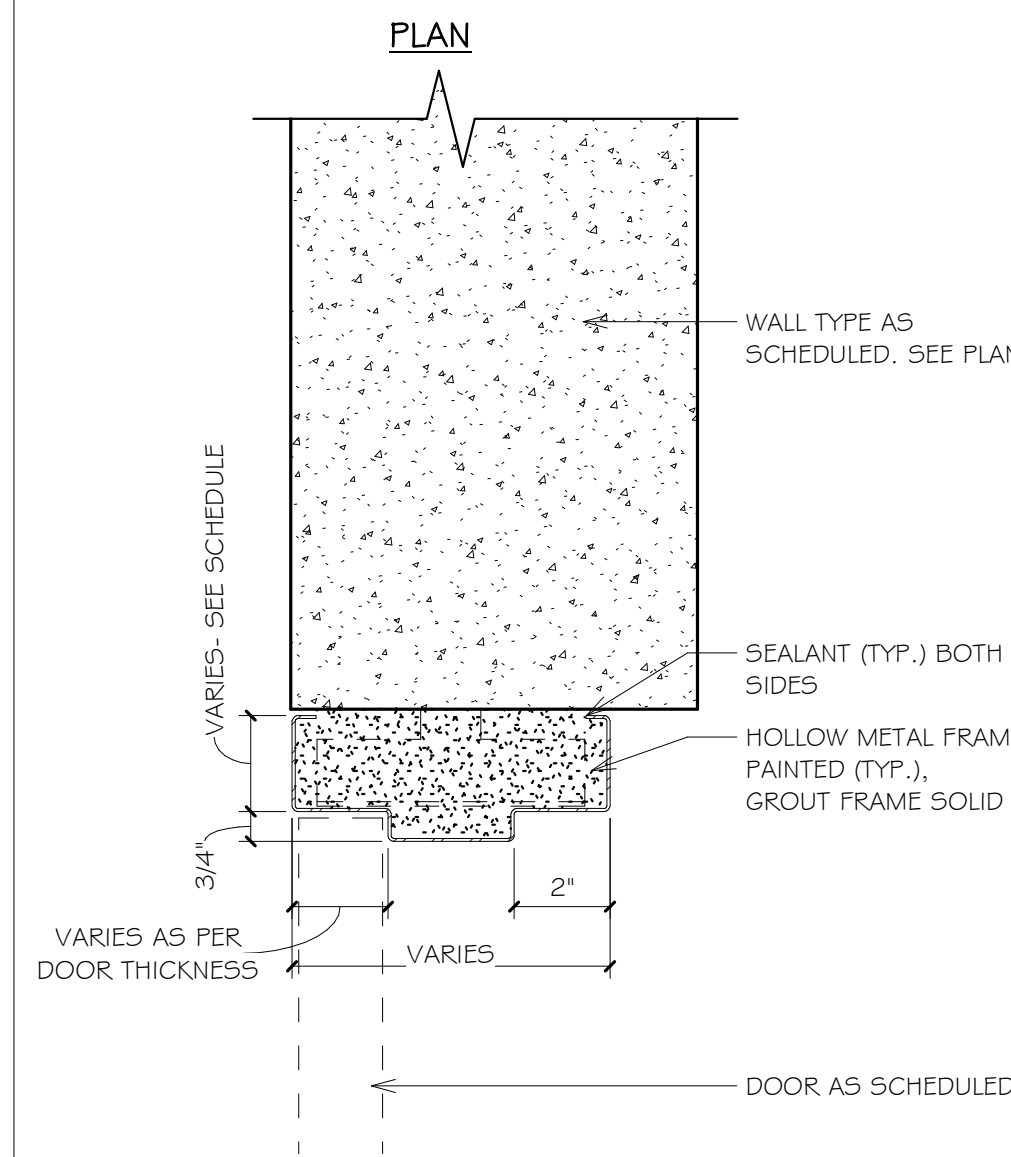
J1 DOOR JAMB DETAIL @ MASONRY PARTITION



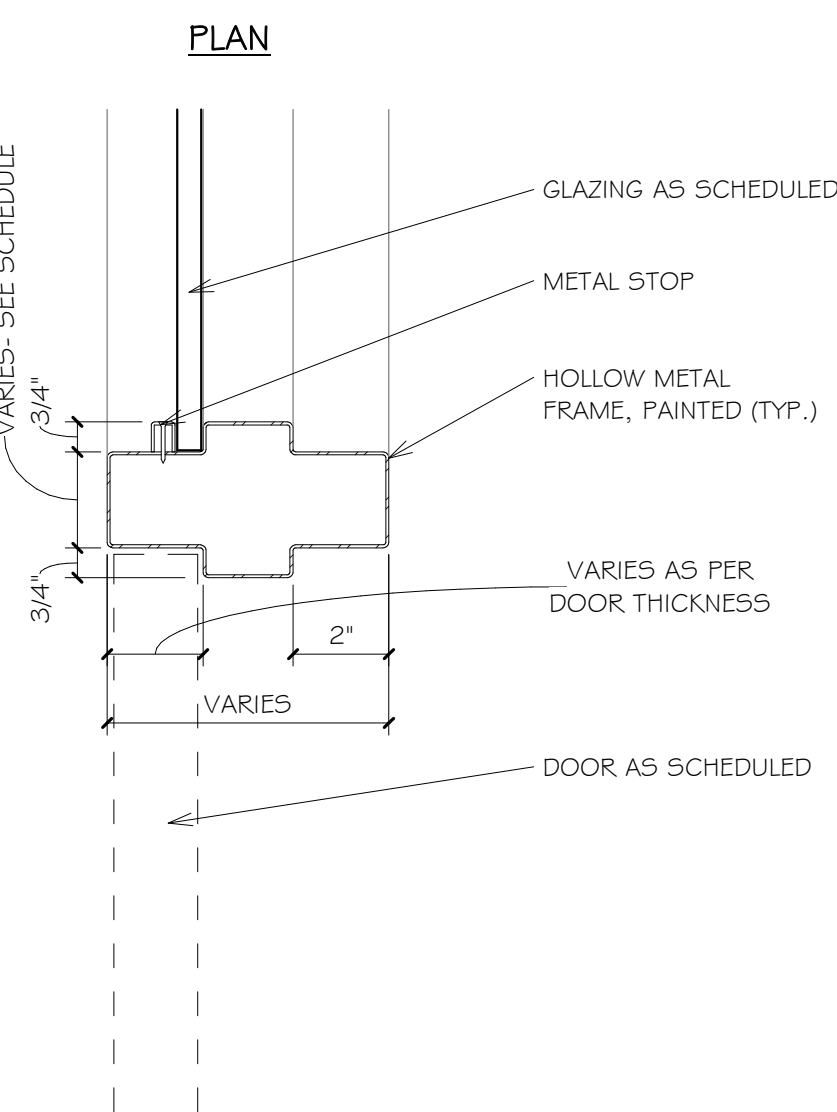
J2 DOOR JAMB DETAIL @ STUD PARTITION



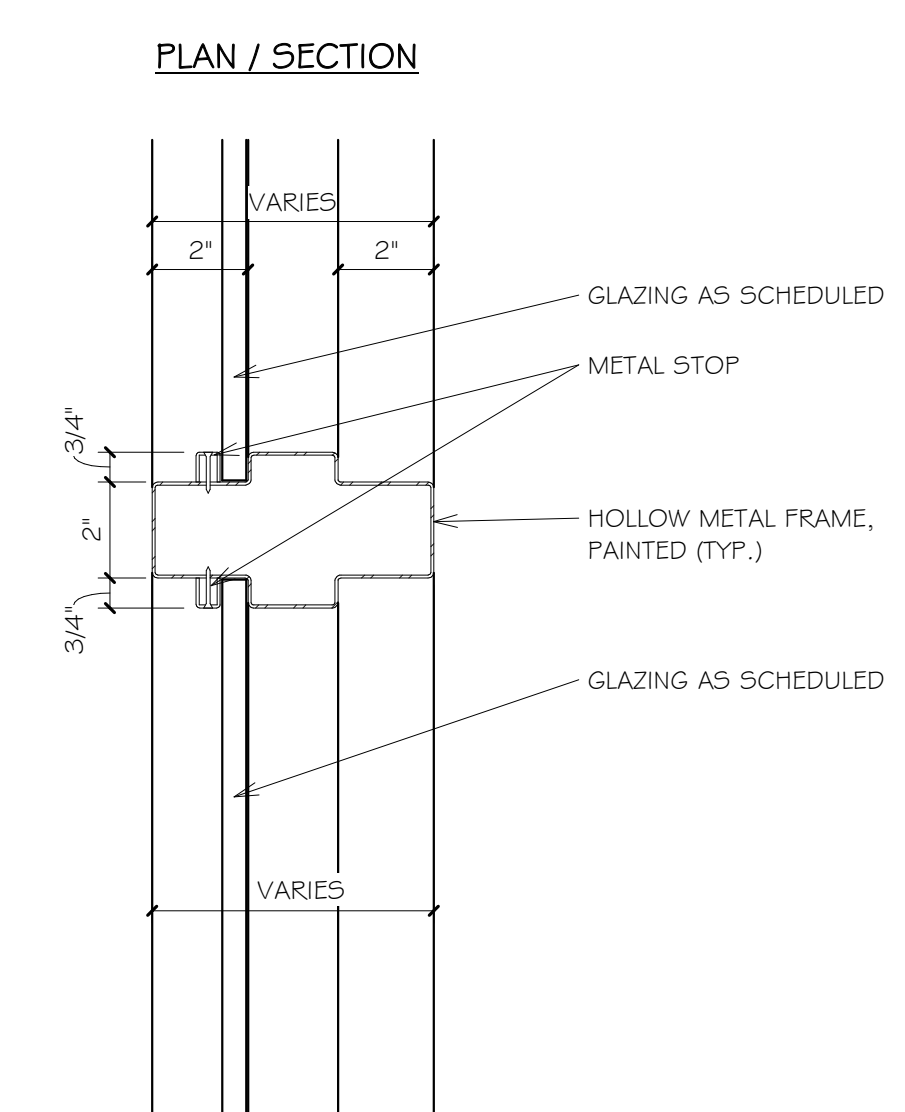
J3 SIDELITE / WINDOW JAMB DETAIL @ STUD PARTITION



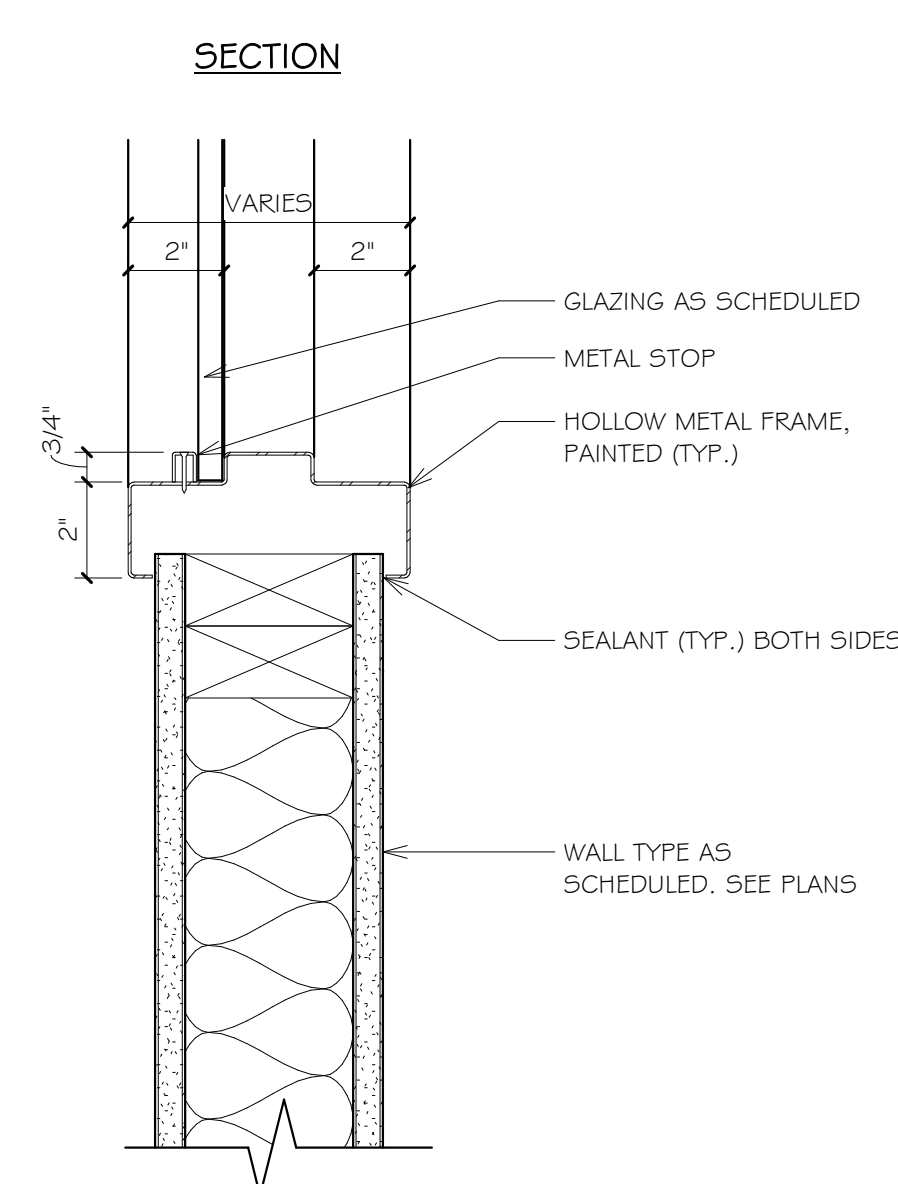
J4 DOOR JAMB DETAIL @ FOUNDATION WALL



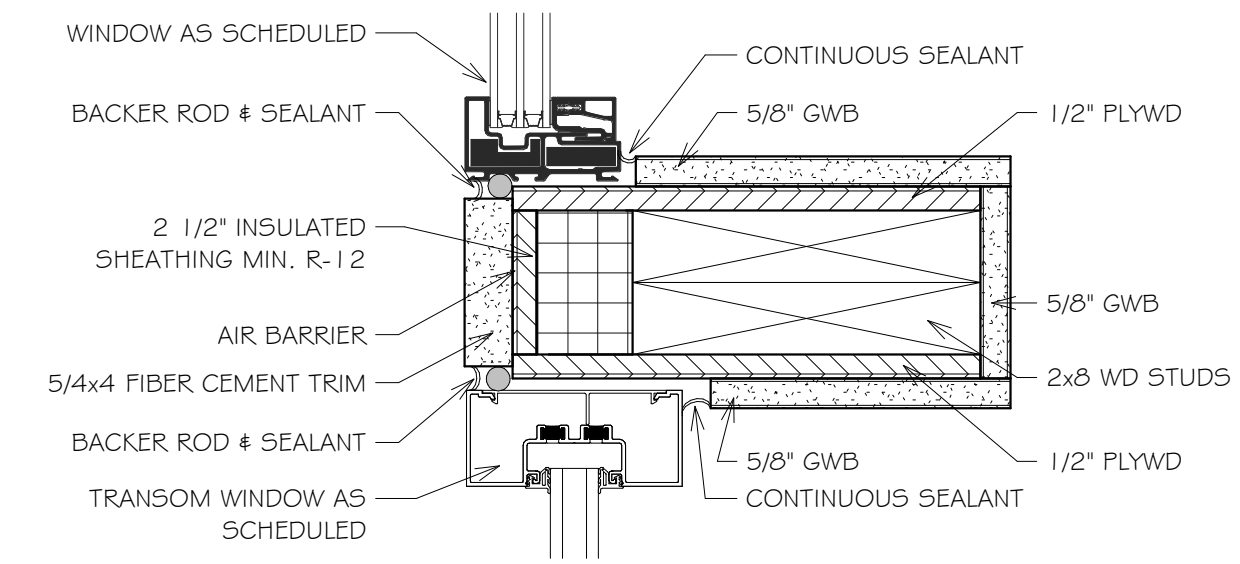
J5 JAMB DETAIL - DOOR / SIDELITE



M1 SIDELITE / WINDOW MULLION DETAIL



S1 SIDELITE / WINDOW SILL DETAIL @ STUD PARTITION



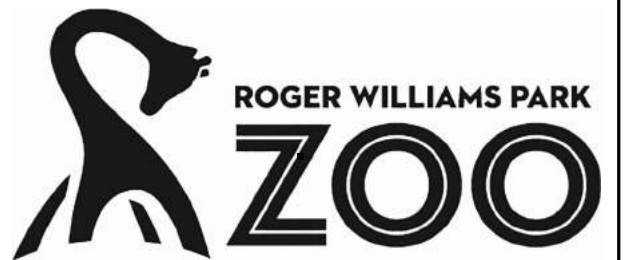
1 DOOR FRAME TO WINDOW DETAIL
A-A6.2
3" = 1'-0"



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Revision Schedule

Revision Number	Revision Date

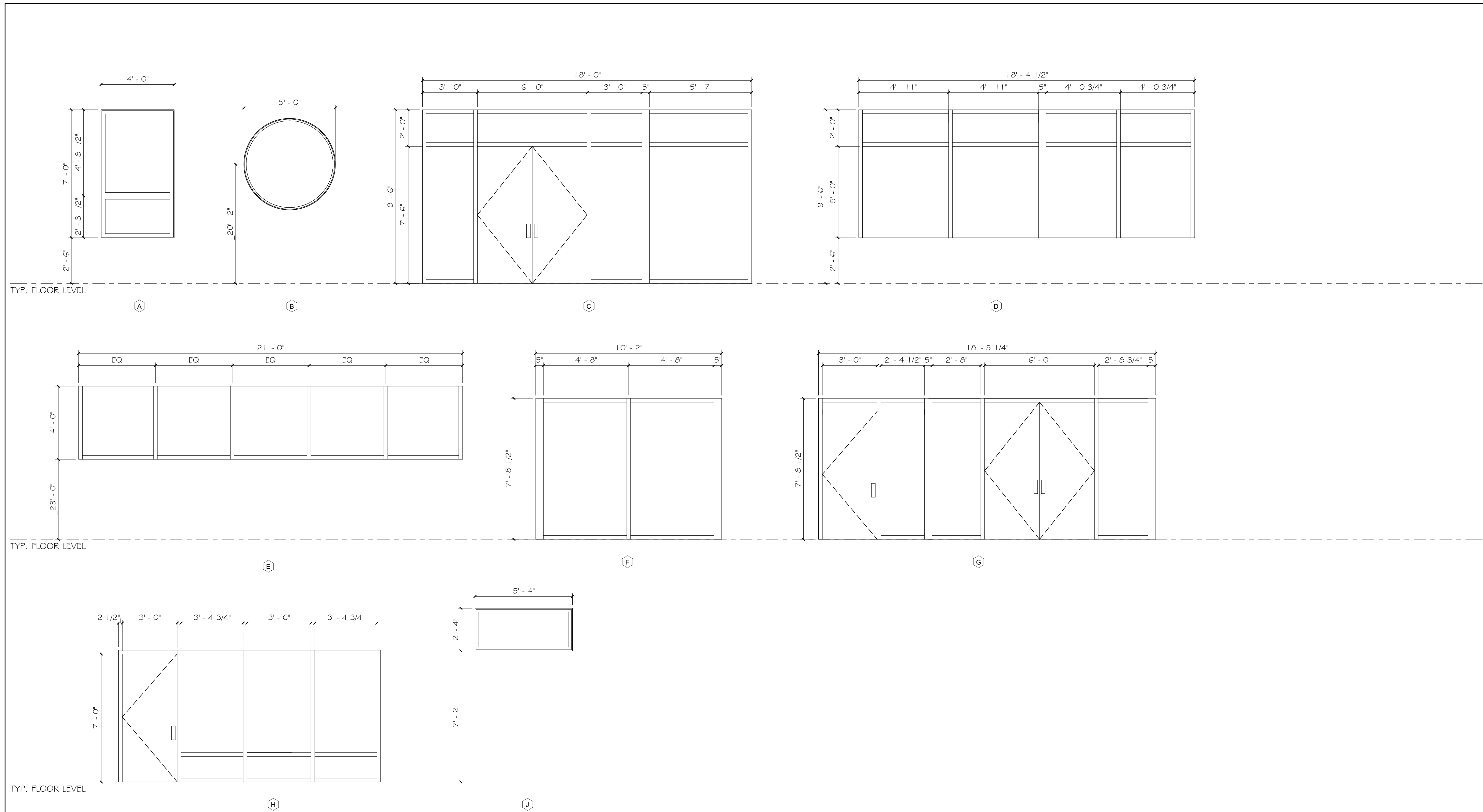
ISSUED FOR BID
April 18, 2024

SHEET TITLE
DOOR & WINDOW DETAILS

DRAWN BY: KR JOB NUMBER: 18050
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A-A6.2

SHEET: OF:



WINDOW TYPES

3/8" = 1'-0"



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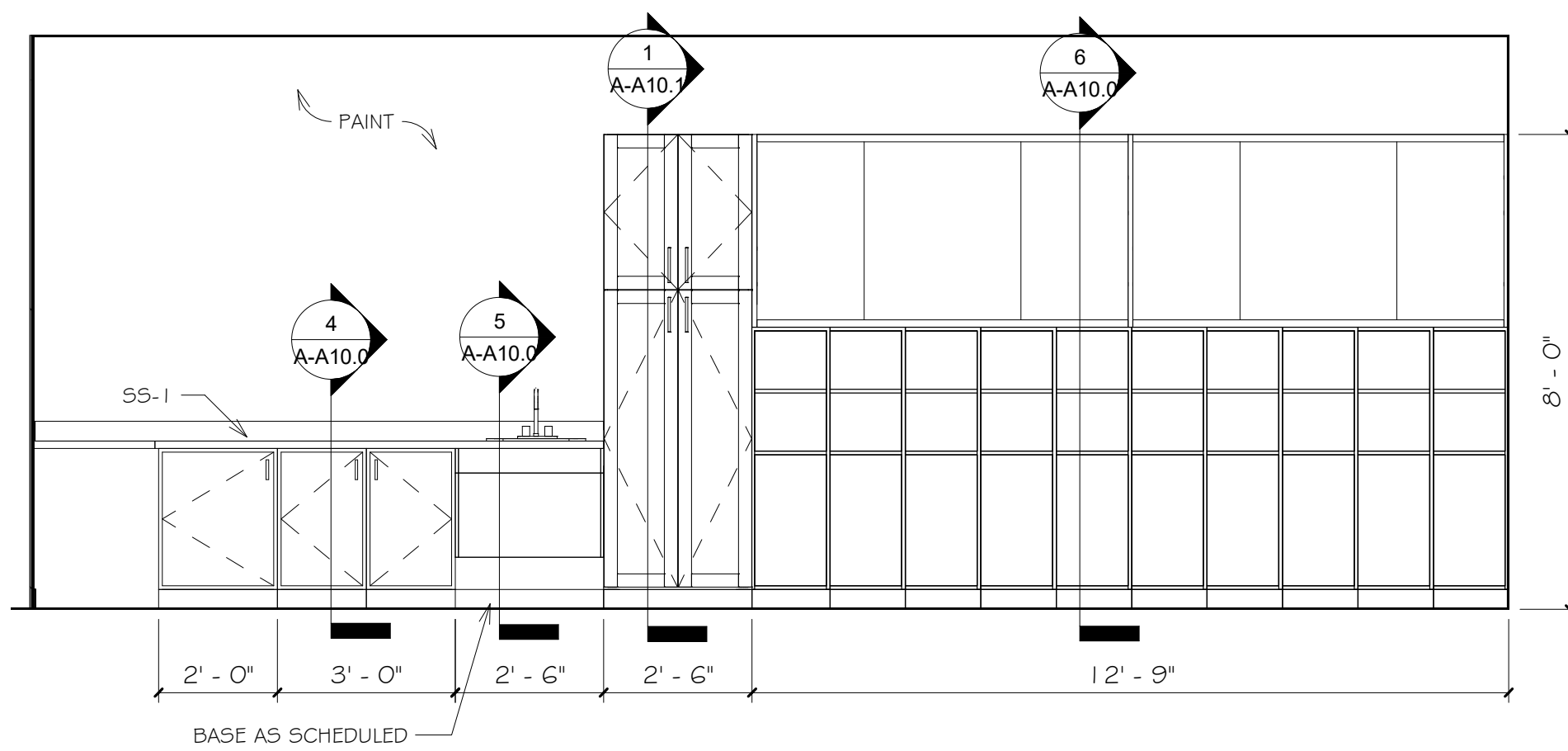
ISSUED FOR BID
 April 18, 2024

SHEET TITLE
WINDOW TYPES

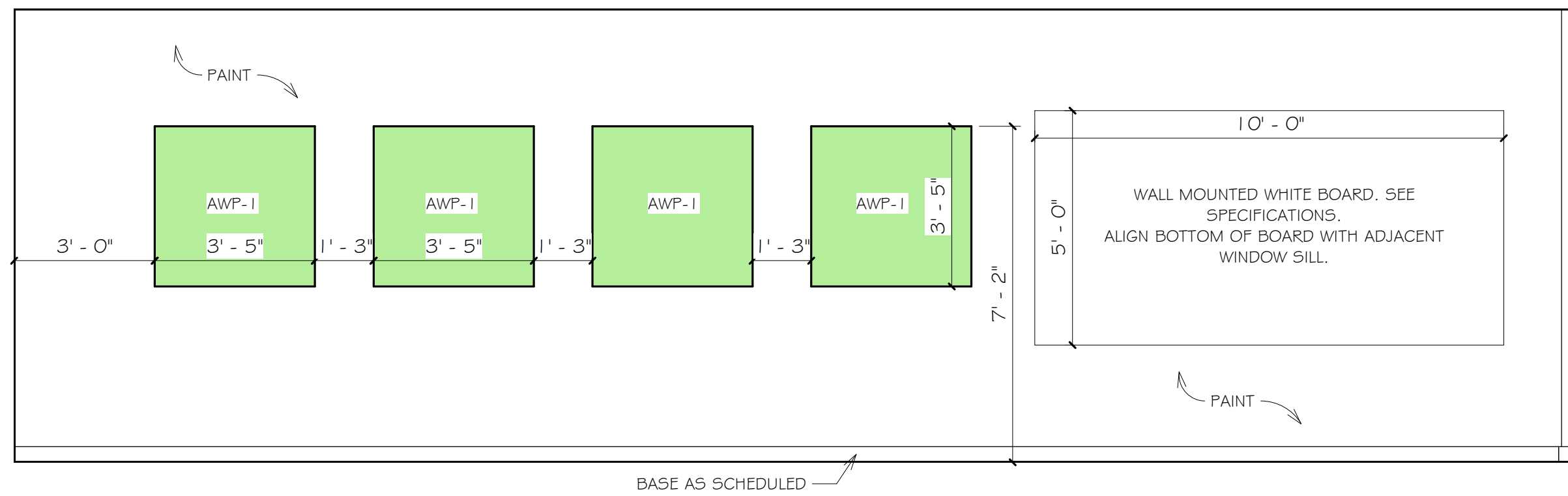
DRAWN BY: KR	JOB NUMBER: 18050
CHECKED BY: MS	DATE: 05/01/2024

A-A6.3

SHEET: OF:

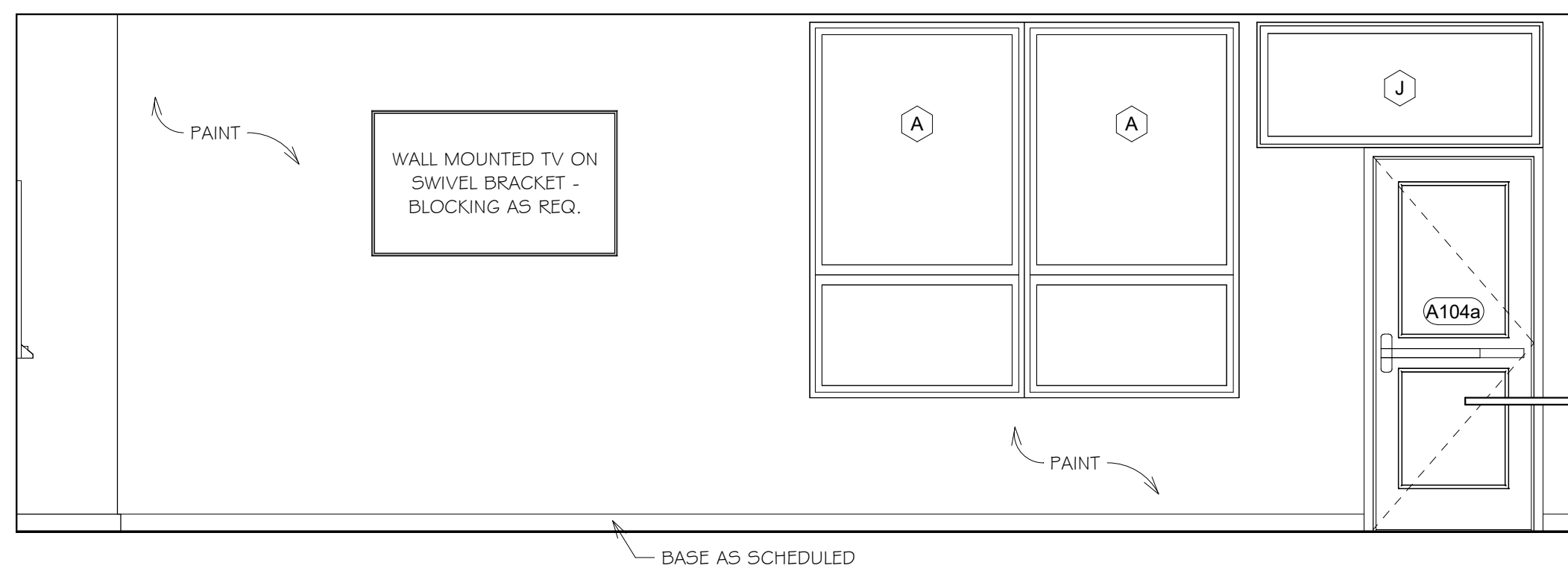


1 A104 - PRE-K 1 NORTH ELEVATION
3/8" = 1'-0"

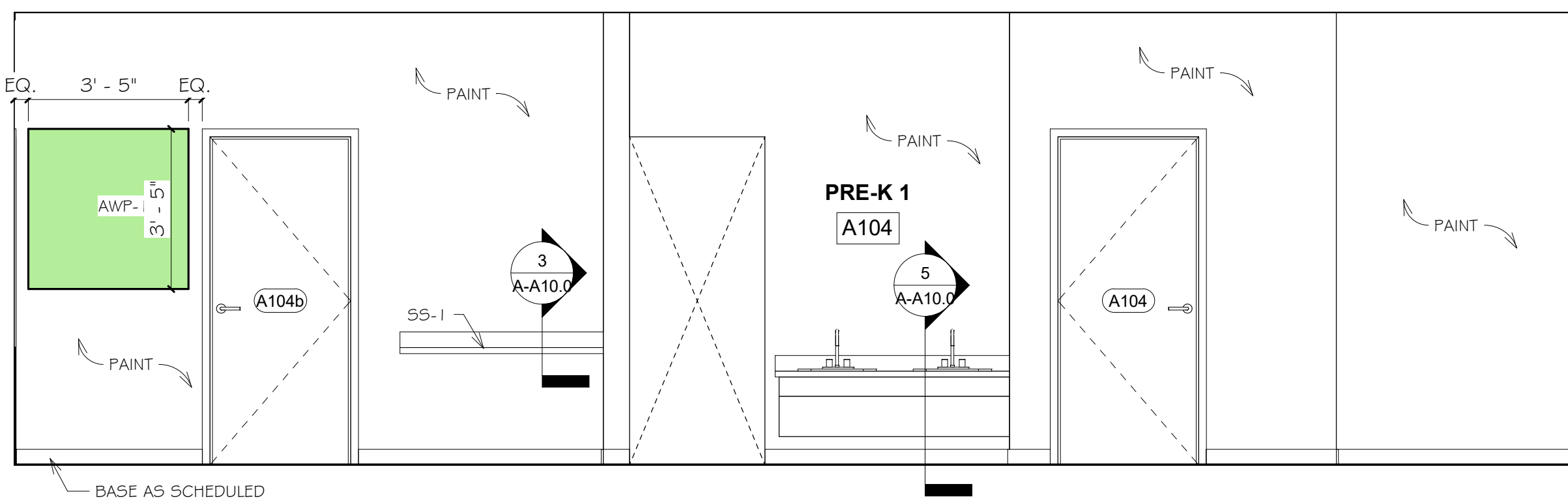


2 A104 PRE-K 1 - EAST ELEVATION
3/8" = 1'-0"

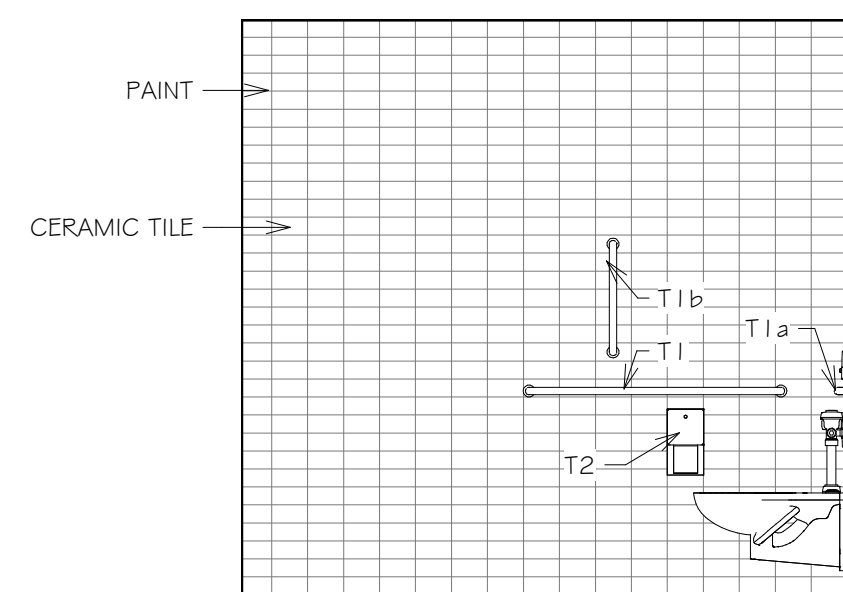
- NOTES:**
- SEE SHEET G1.0 FOR MOUNTING HEIGHTS AND MORE INFORMATION.
 - ALL EXPOSED SIDE AND BOTTOM CASEWORK PANELS ARE TO BE OF FINISH QUALITY.
 - PROVIDE FINISHED FILLER PANELS/STRIPS AT TOPS/BOTTOMS/SIDES AS REQUIRED TO COMPLETE EACH RUN OF UPPER AND LOWER CASEWORK.
 - PROVIDE BLOCKING (FIRE-TREATED WHERE REQUIRED) FOR ALL CASEWORK, MILLWORK, STANDING # RUNNING TRIM, FIXTURES, EQUIPMENT, SHELVING, BRACKETS, RESTROOM ACCESSORIES AND ALL OTHER INCIDENTAL ITEMS AS REQUIRED FOR THEIR INSTALLATION.
 - ALL TOE KICKS IN CASEWORK TO RECEIVE BASE SIMILAR TO BASE WITHIN ROOM.



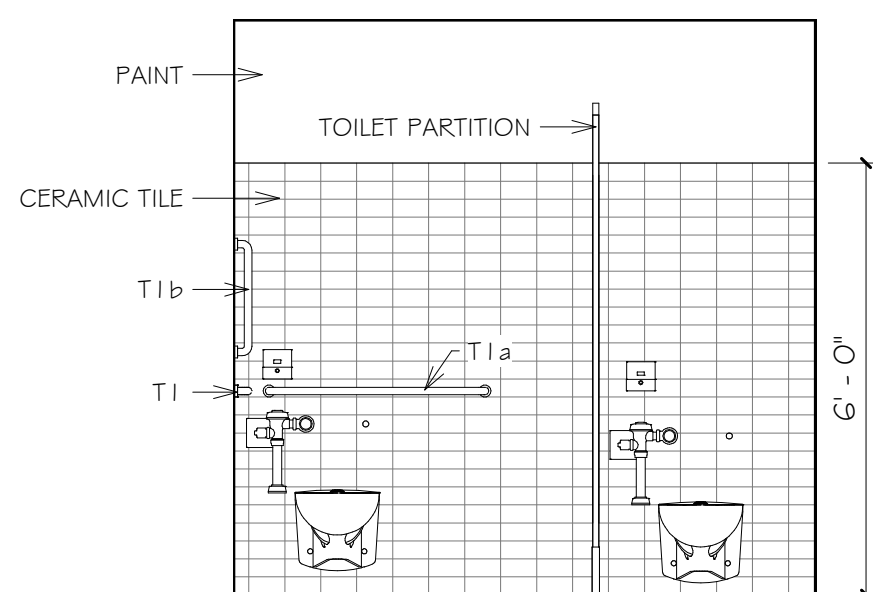
3 A104 - PRE-K 1 SOUTH ELEVATION
3/8" = 1'-0"



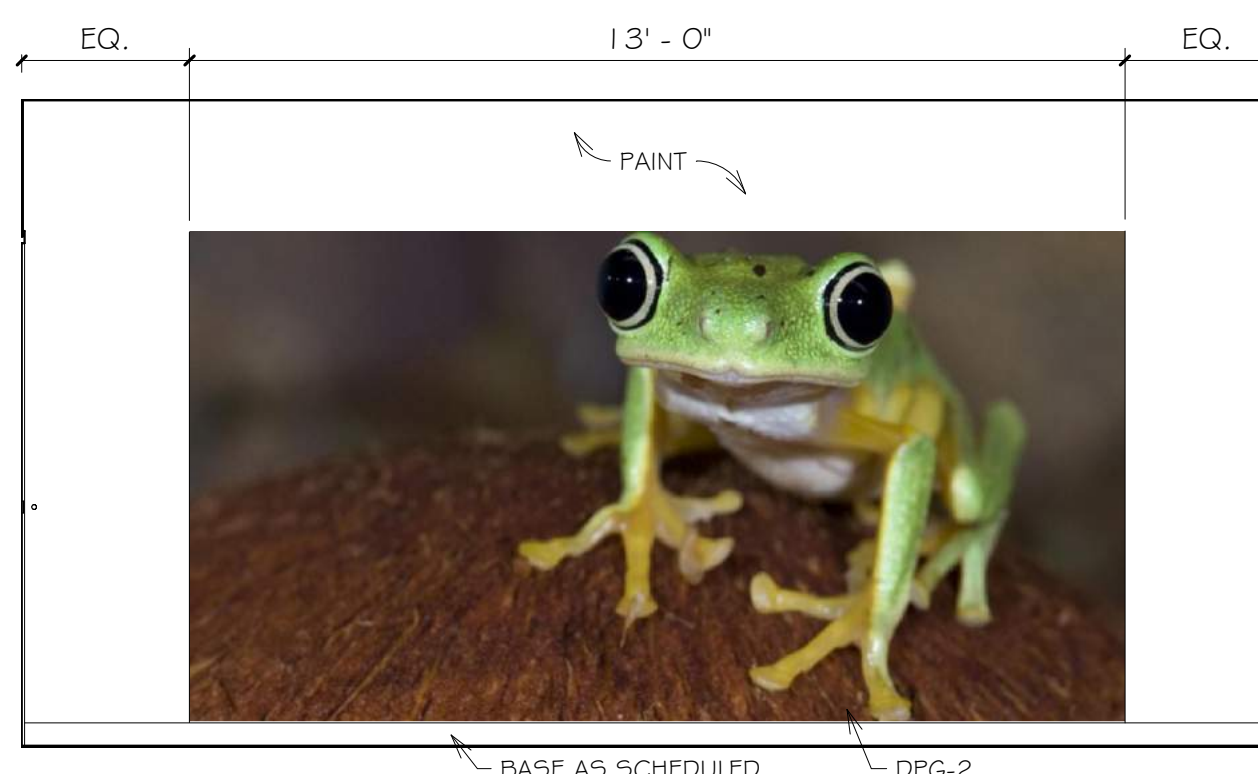
4 A104 - PRE-K 1 - WEST ELEVATION
3/8" = 1'-0"



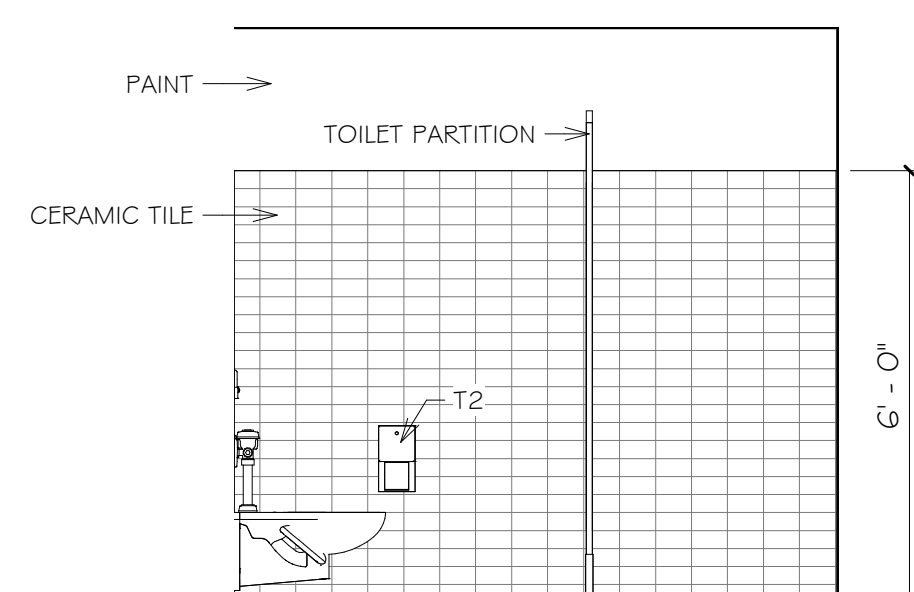
5 A106a TOILET - NORTH
3/8" = 1'-0" TYPICAL FOR A104a & A106a



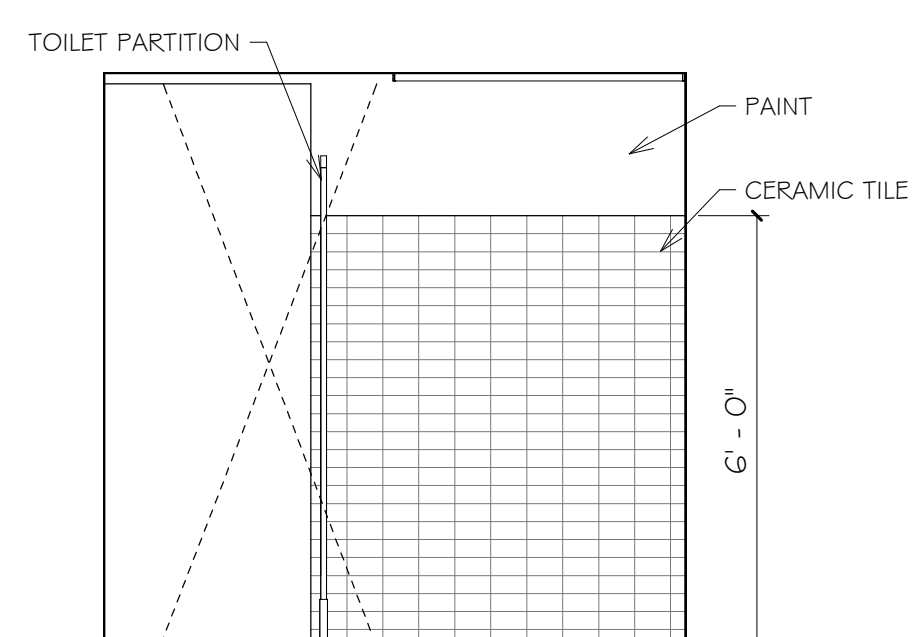
6 A106a TOILET - EAST
3/8" = 1'-0" TYPICAL FOR A104a & A106a



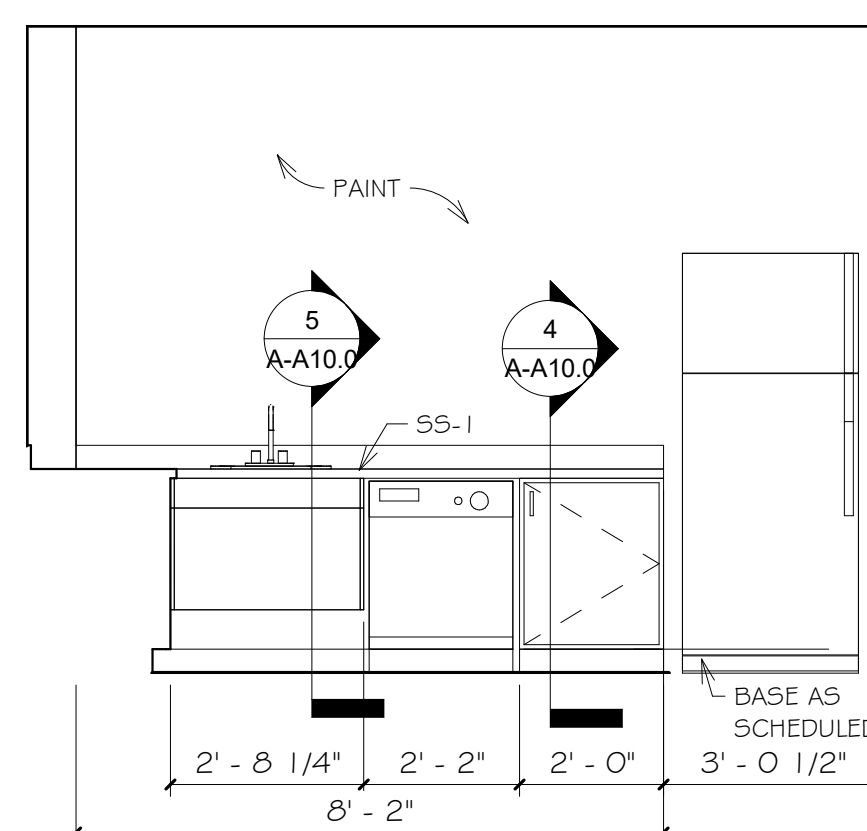
9 A103 PRE-K VESTIBULE
3/8" = 1'-0"



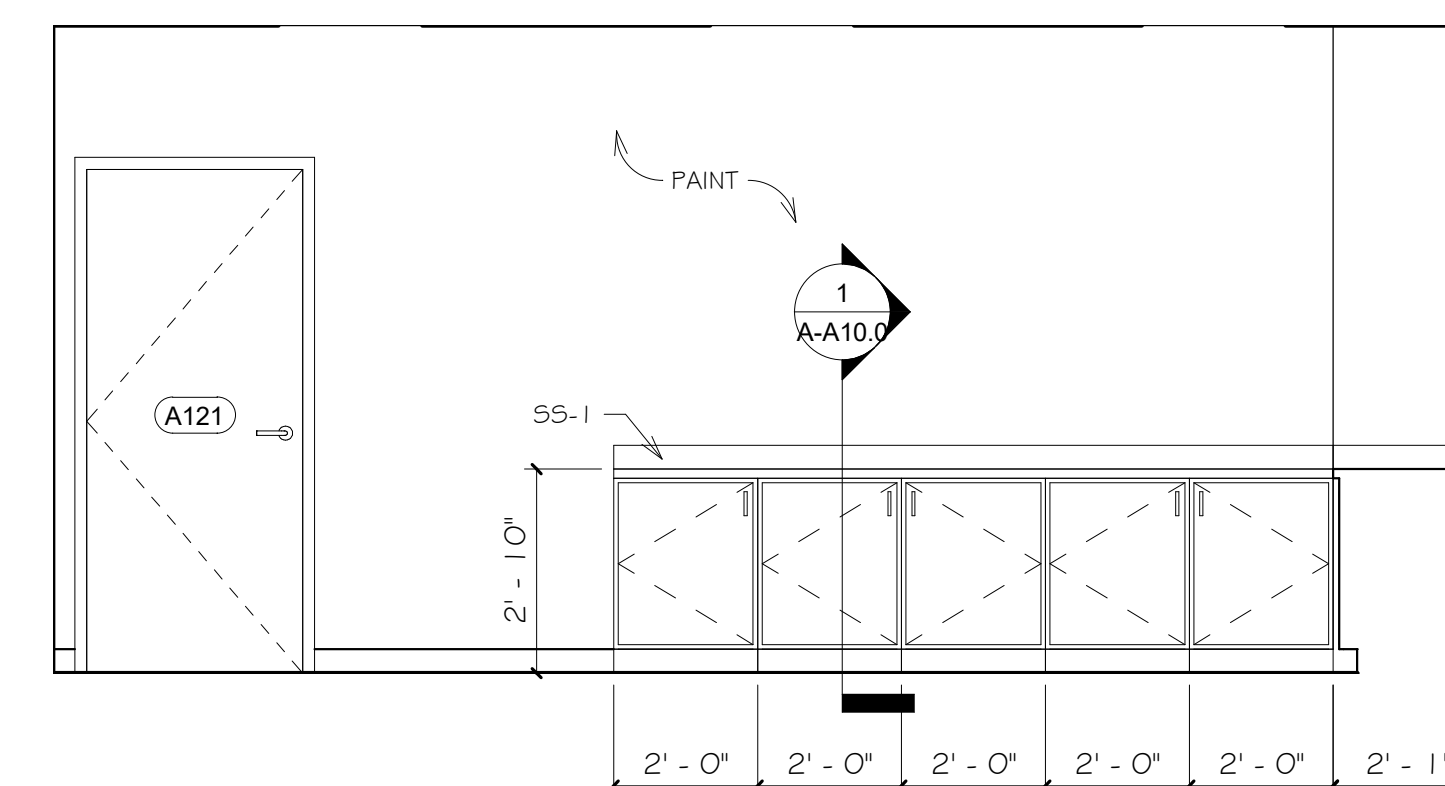
7 A106a TOILET - SOUTH
3/8" = 1'-0" TYPICAL FOR A104a & A106a



8 A106a TOILET - WEST
3/8" = 1'-0" TYPICAL FOR A104a & A106a



10 A121 BREAKROOM - EAST
3/8" = 1'-0"



11 A121 BREAKROOM - NORTH
3/8" = 1'-0"



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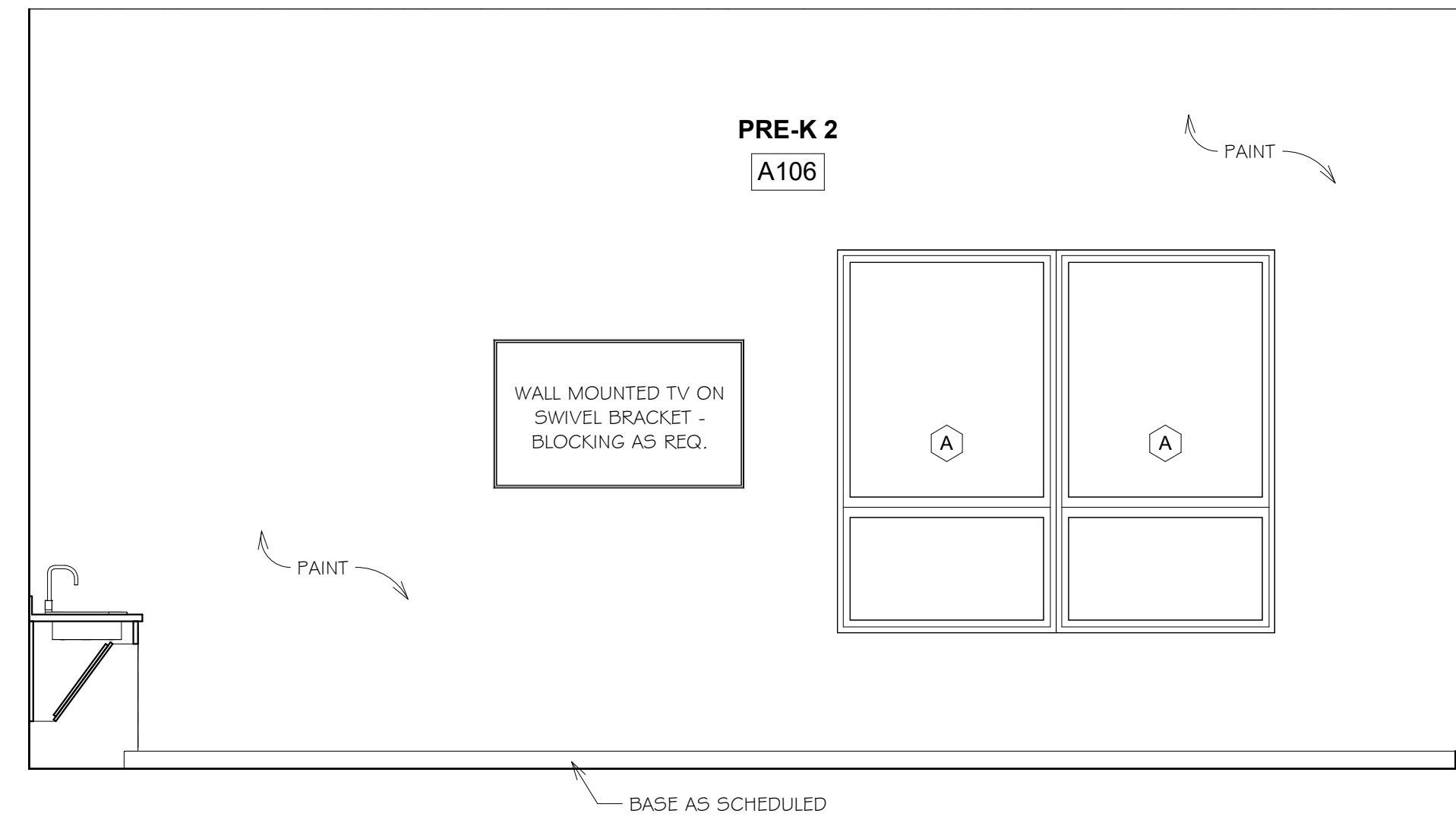
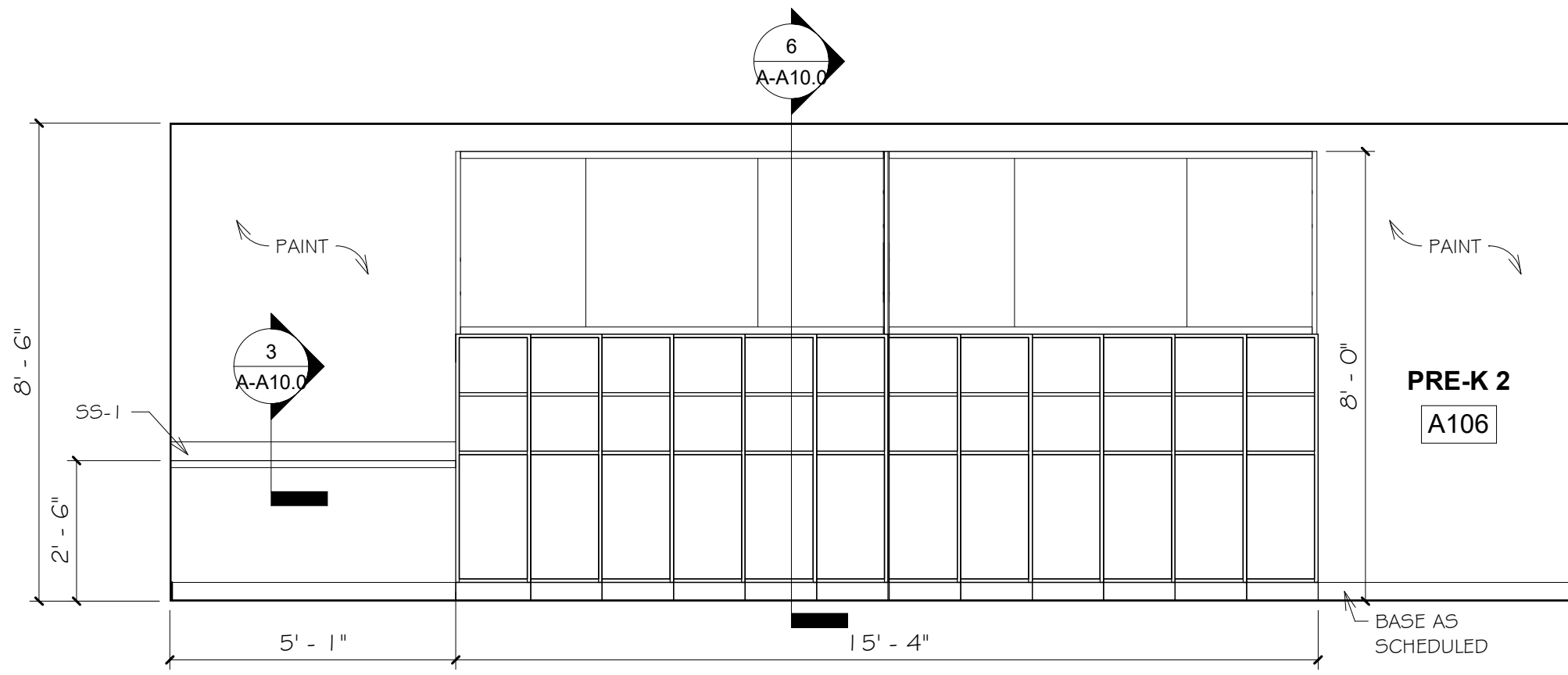
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April 18, 2024

SHEET TITLE
INTERIOR
ELEVATIONS

DRAWN BY: FK JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A7.0

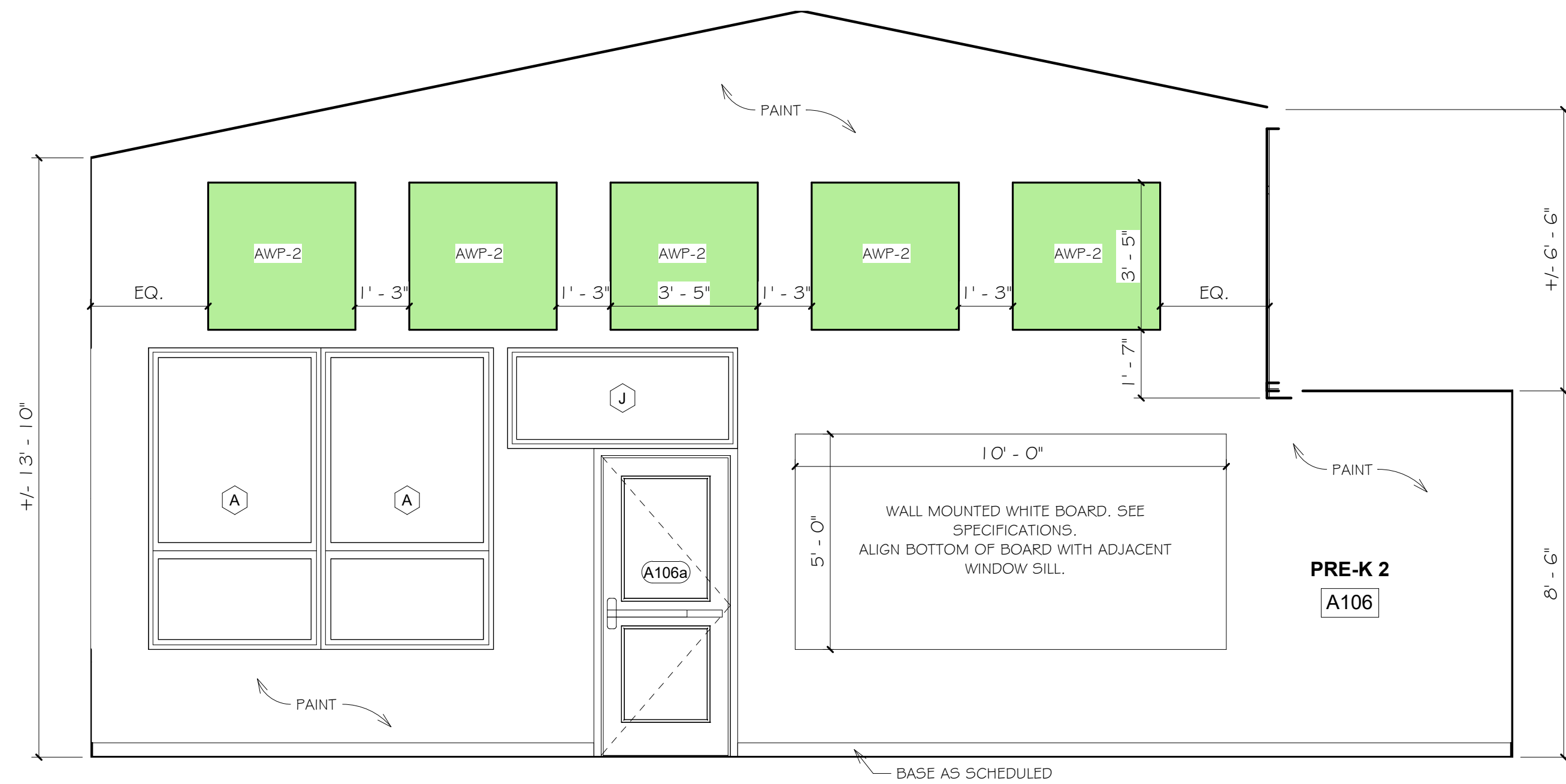
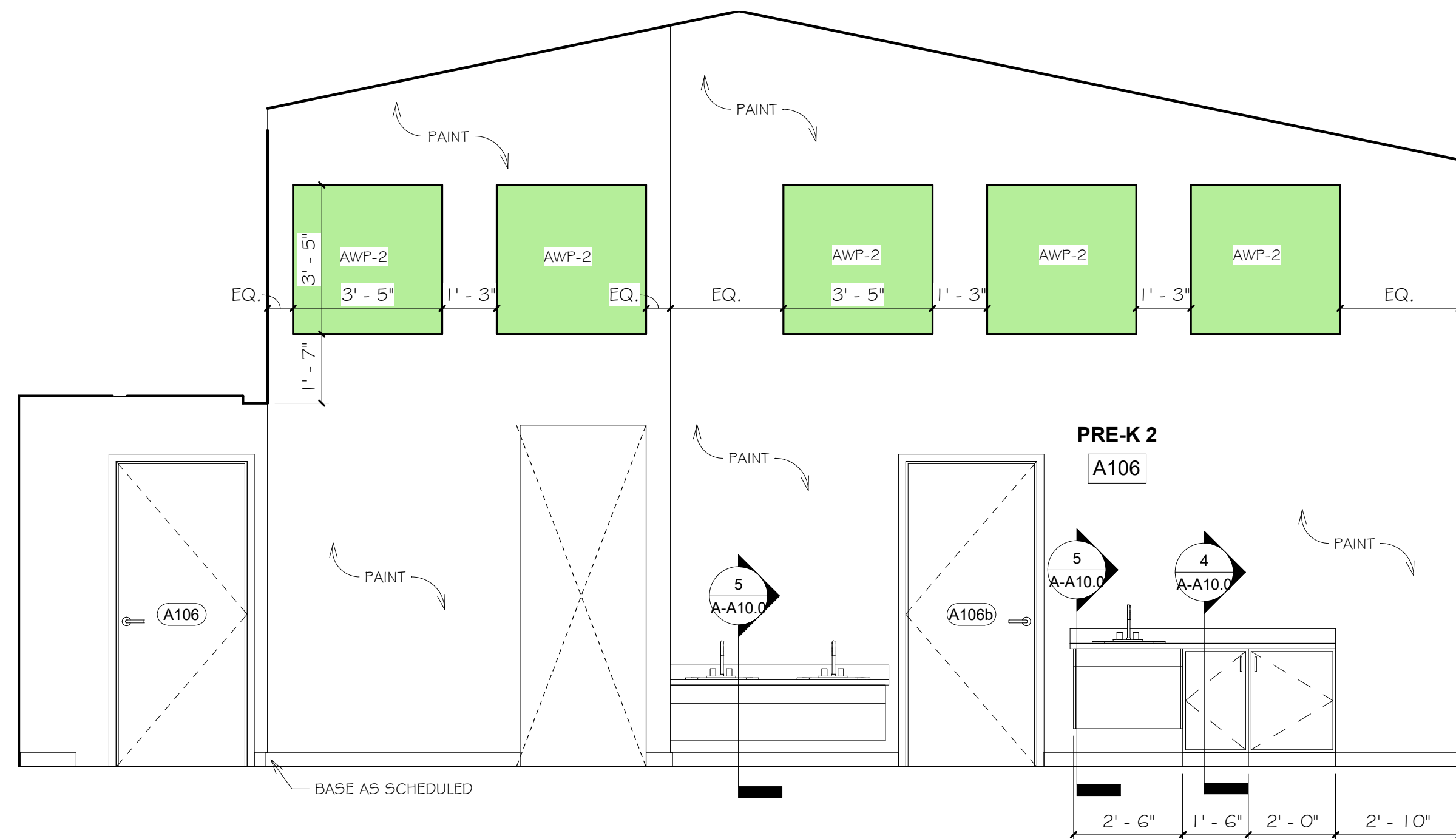
SHEET: OF:



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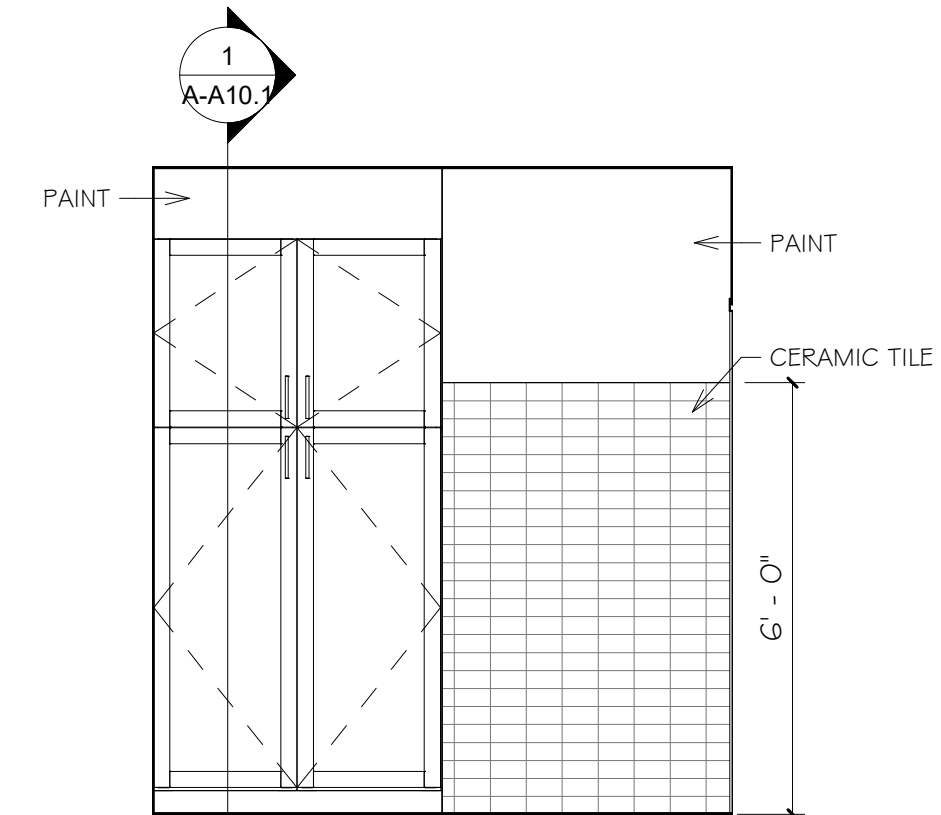
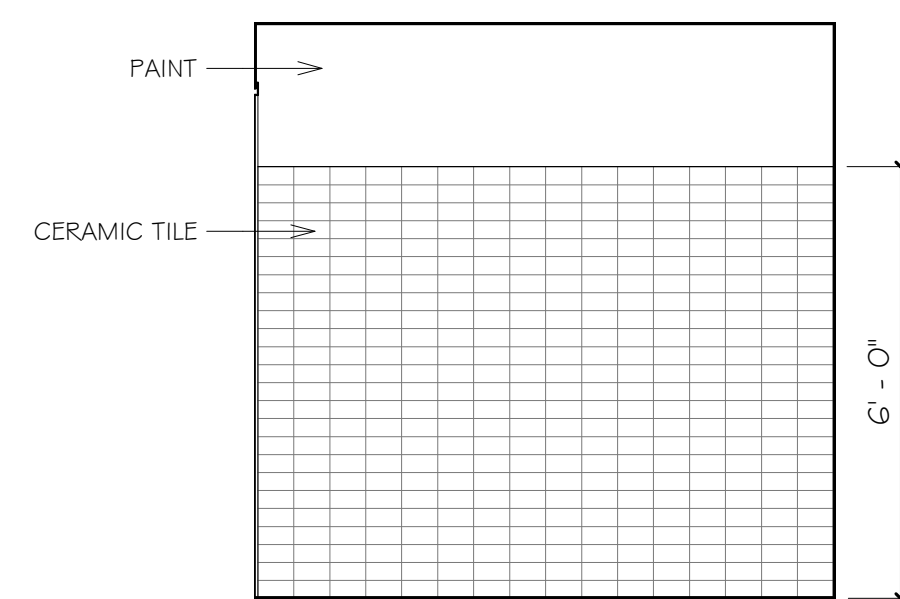
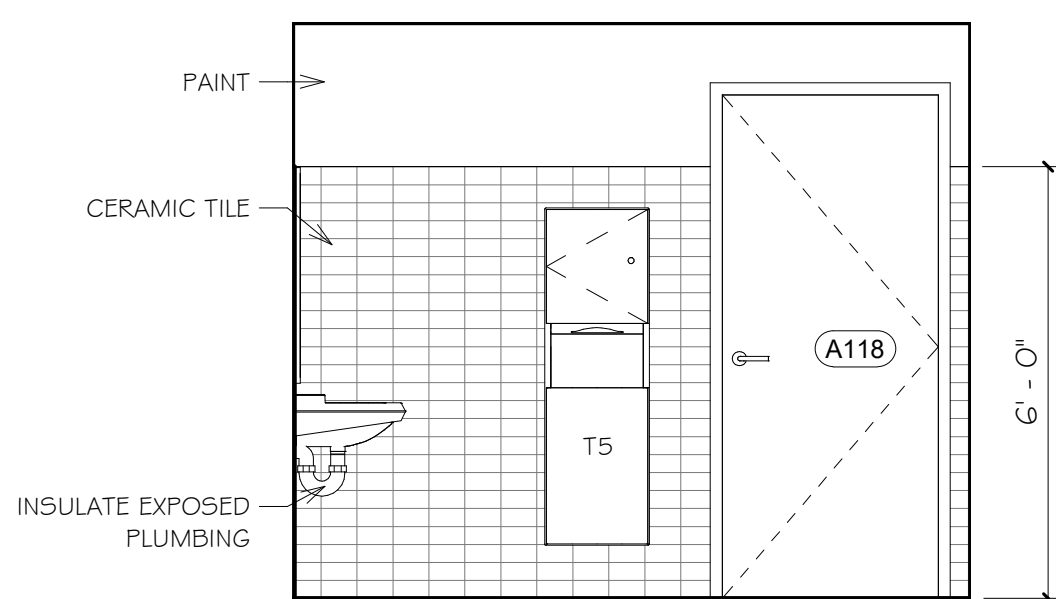
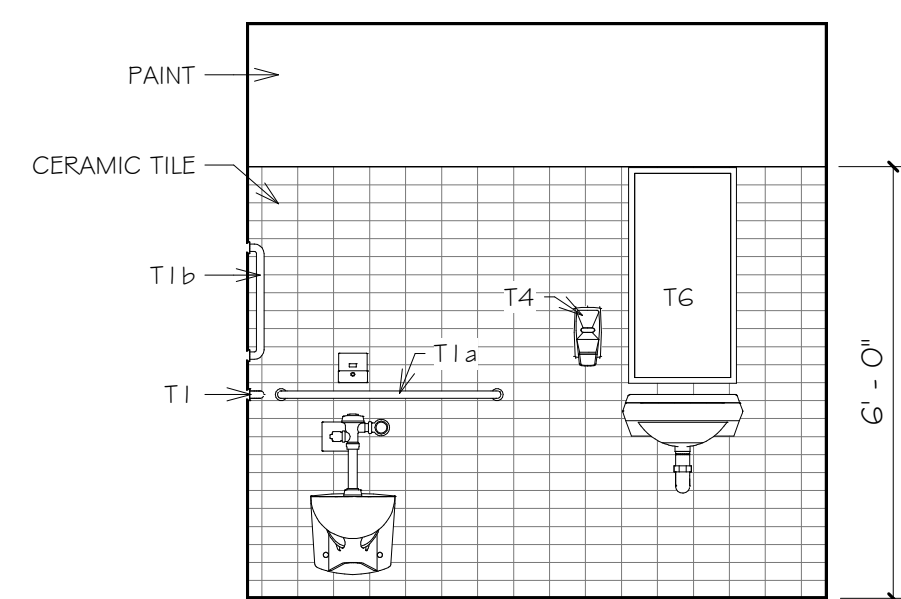
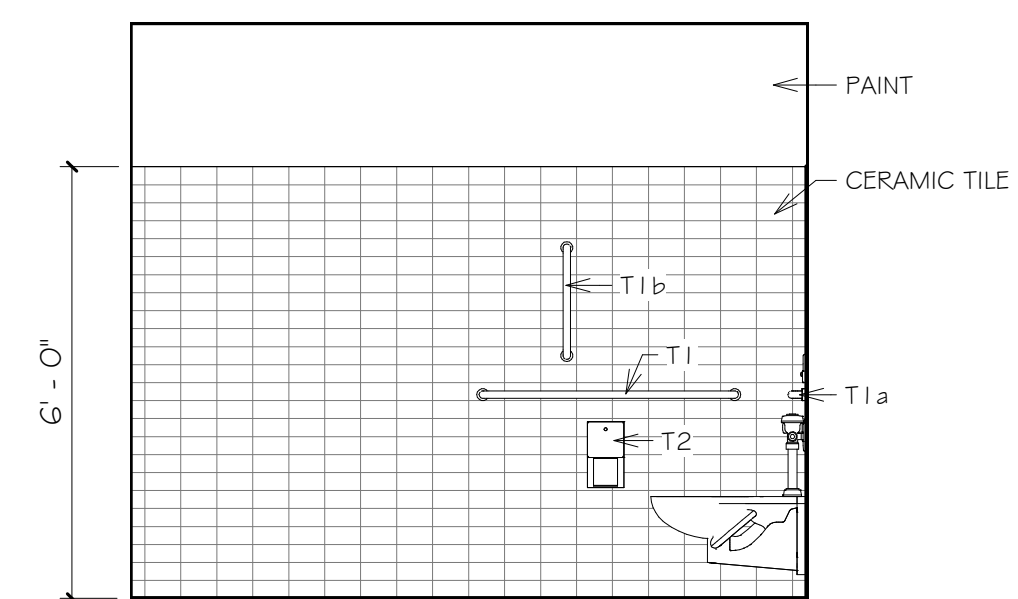
1 A106 PRE-K 2 - NORTH
3/8" = 1'-0"

3 A106 PRE-K 2 - SOUTH
3/8" = 1'-0"



2 A106 PRE-K 2 - EAST
3/8" = 1'-0"

4 A106 PRE-K 2 - WEST
3/8" = 1'-0"



5 A118 TOILET - NORTH
3/8" = 1'-0" TYPICAL FOR A118 & A119

6 A118 TOILET - EAST
3/8" = 1'-0" TYPICAL FOR A118 & A119

7 A118 TOILET - SOUTH
3/8" = 1'-0" TYPICAL FOR A118 & A119

8 A118 TOILET - WEST
3/8" = 1'-0"

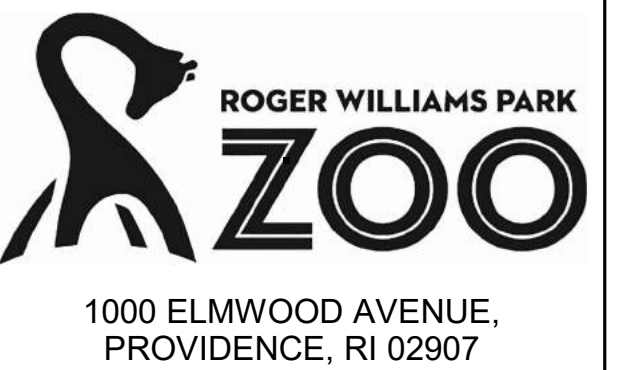
9 A119 TOILET - EAST
3/8" = 1'-0"



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Revision Schedule	
Revision Number	Revision Date

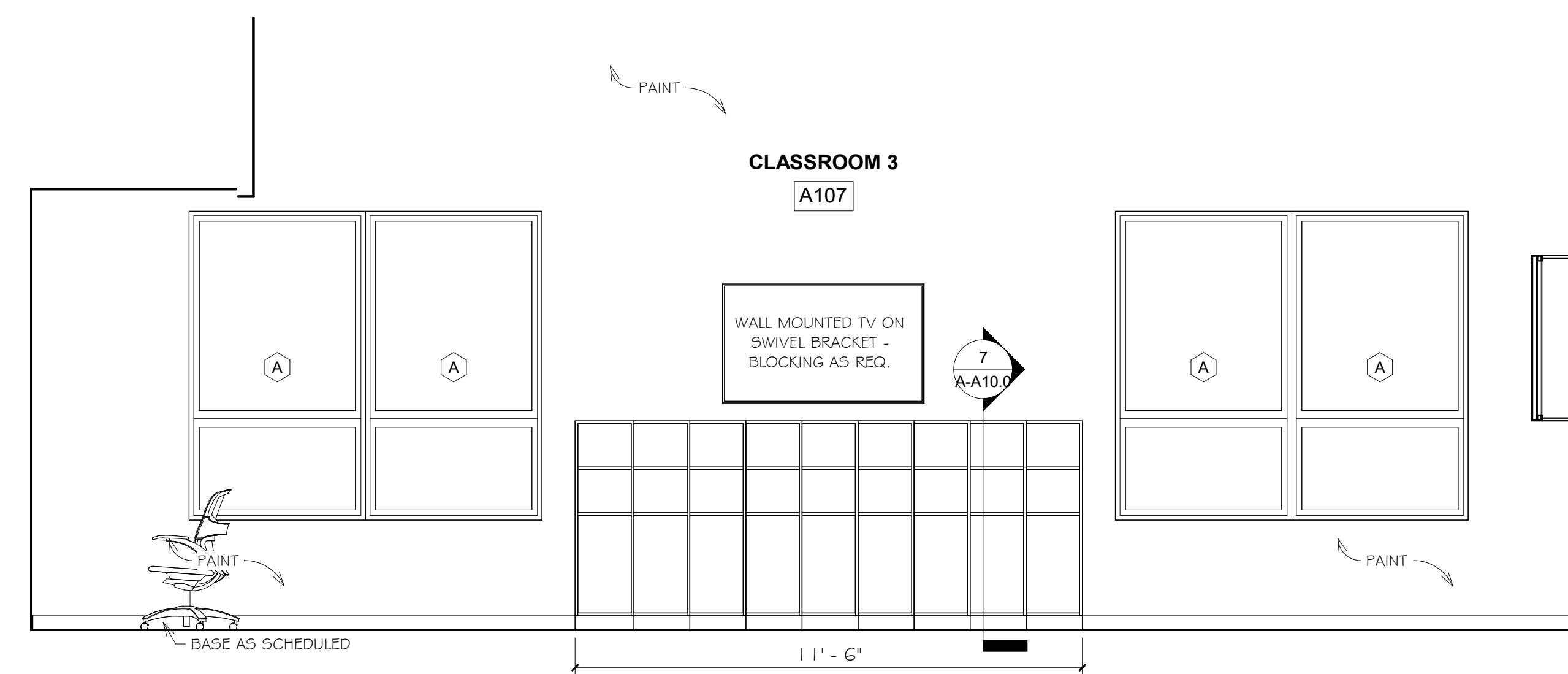
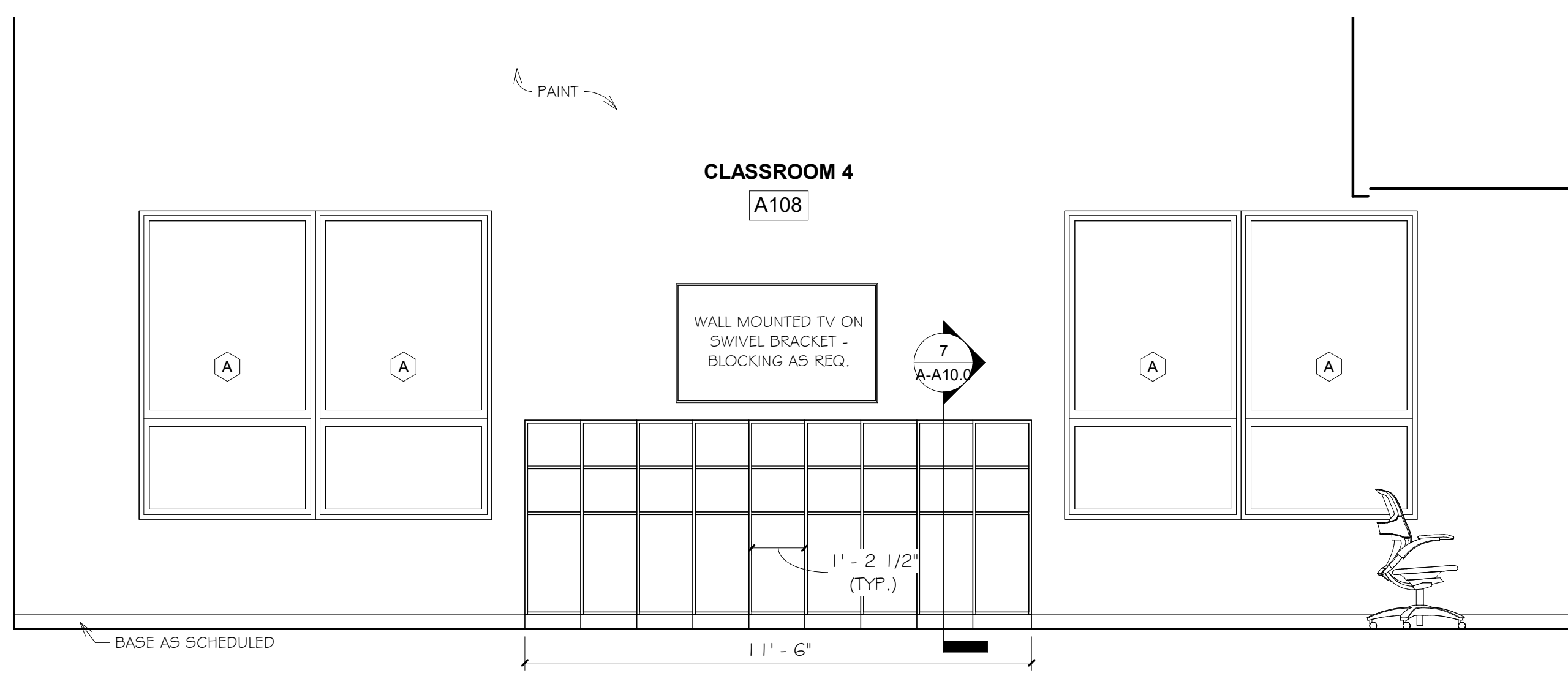
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April 18, 2024

SHEET TITLE
INTERIOR ELEVATIONS

DRAWN BY: FK JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

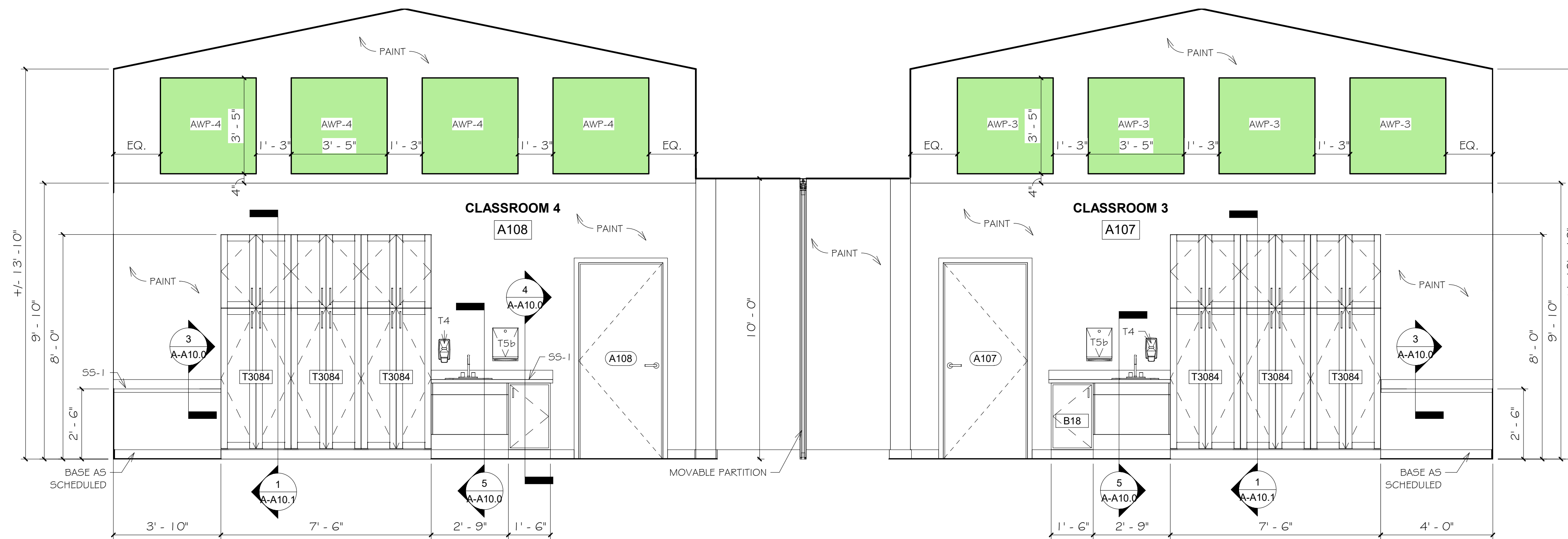
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SHEET: OF:

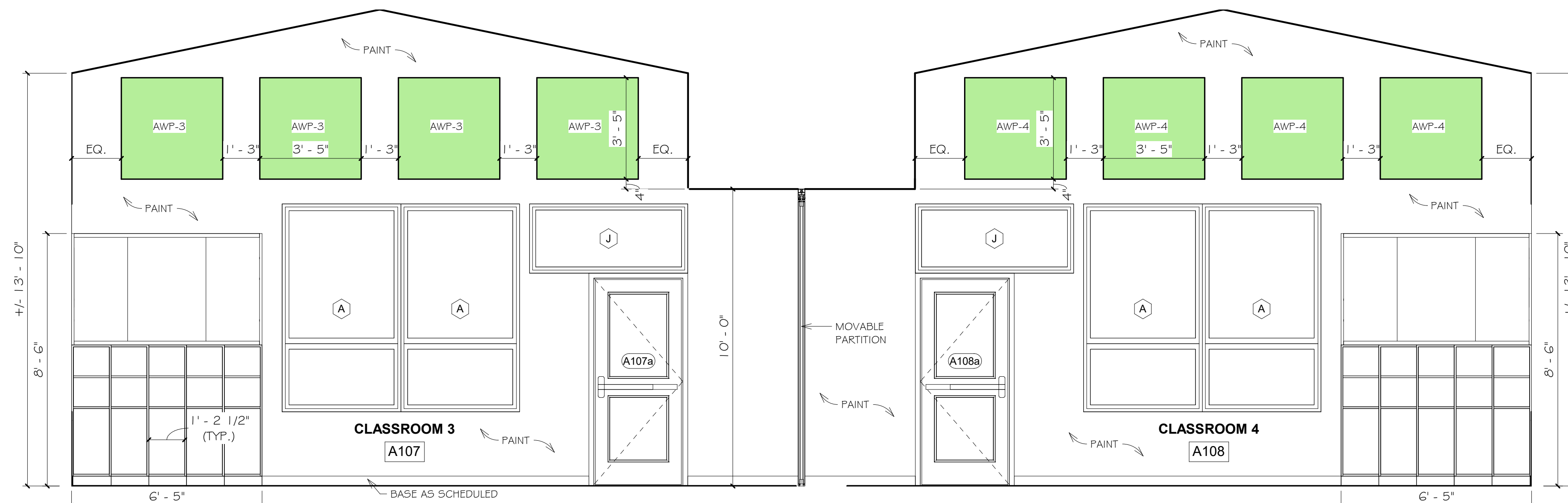


1 A108 CLASSROOM - NORTH
3/8" = 1'-0"

2 A107 CLASSROOM - SOUTH
3/8" = 1'-0"

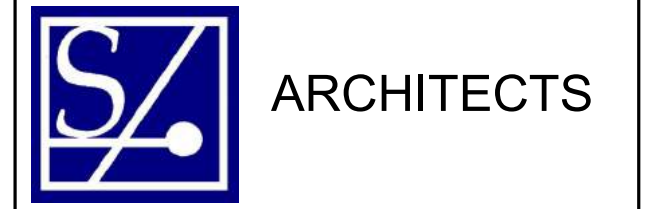


3 A107-A108 CLASSROOM - EAST
3/8" = 1'-0"



4 A107-A108 CLASSROOM - WEST
3/8" = 1'-0"

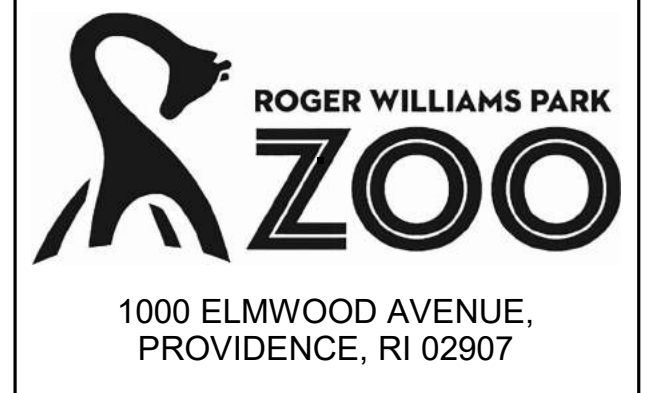
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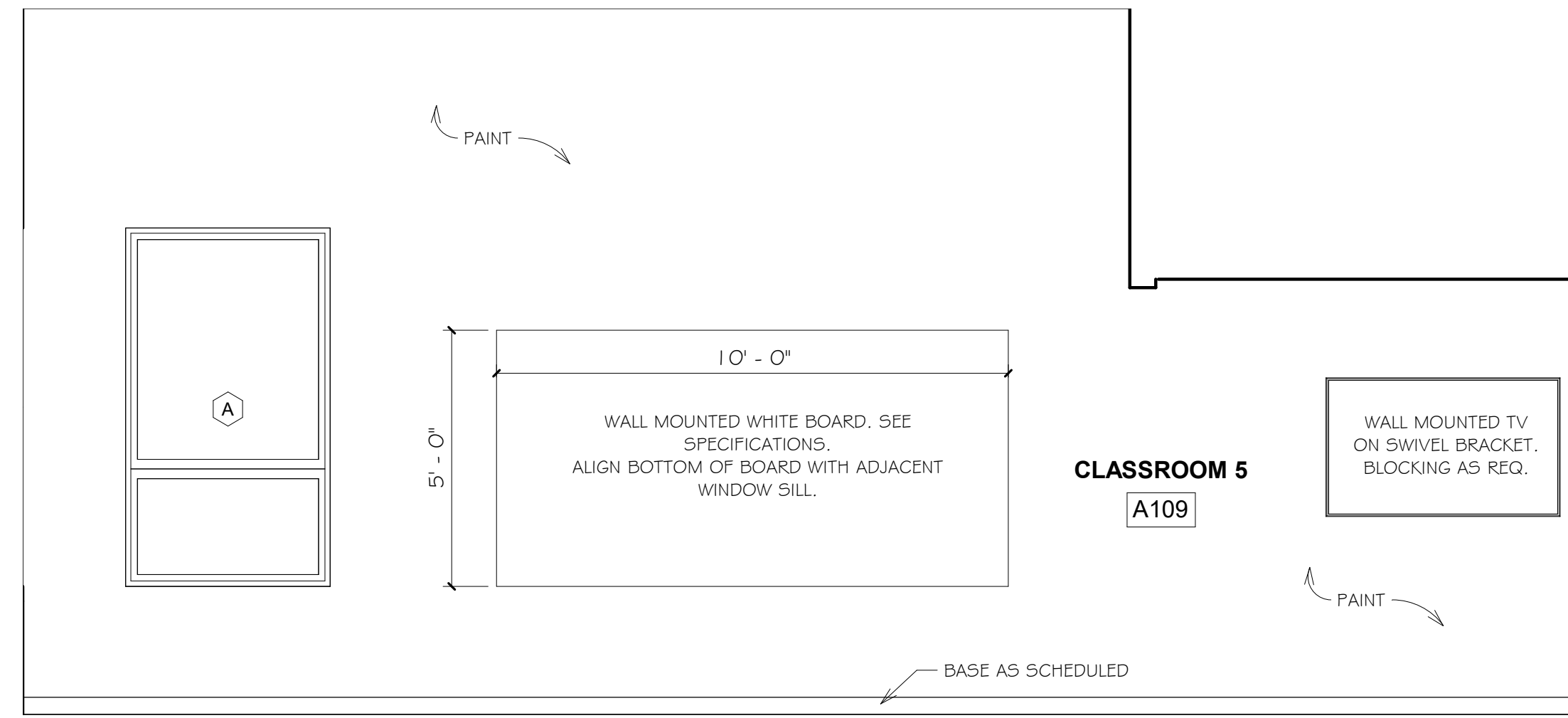
ISSUED FOR BID
April 18, 2024

SHEET TITLE
INTERIOR
ELEVATIONS

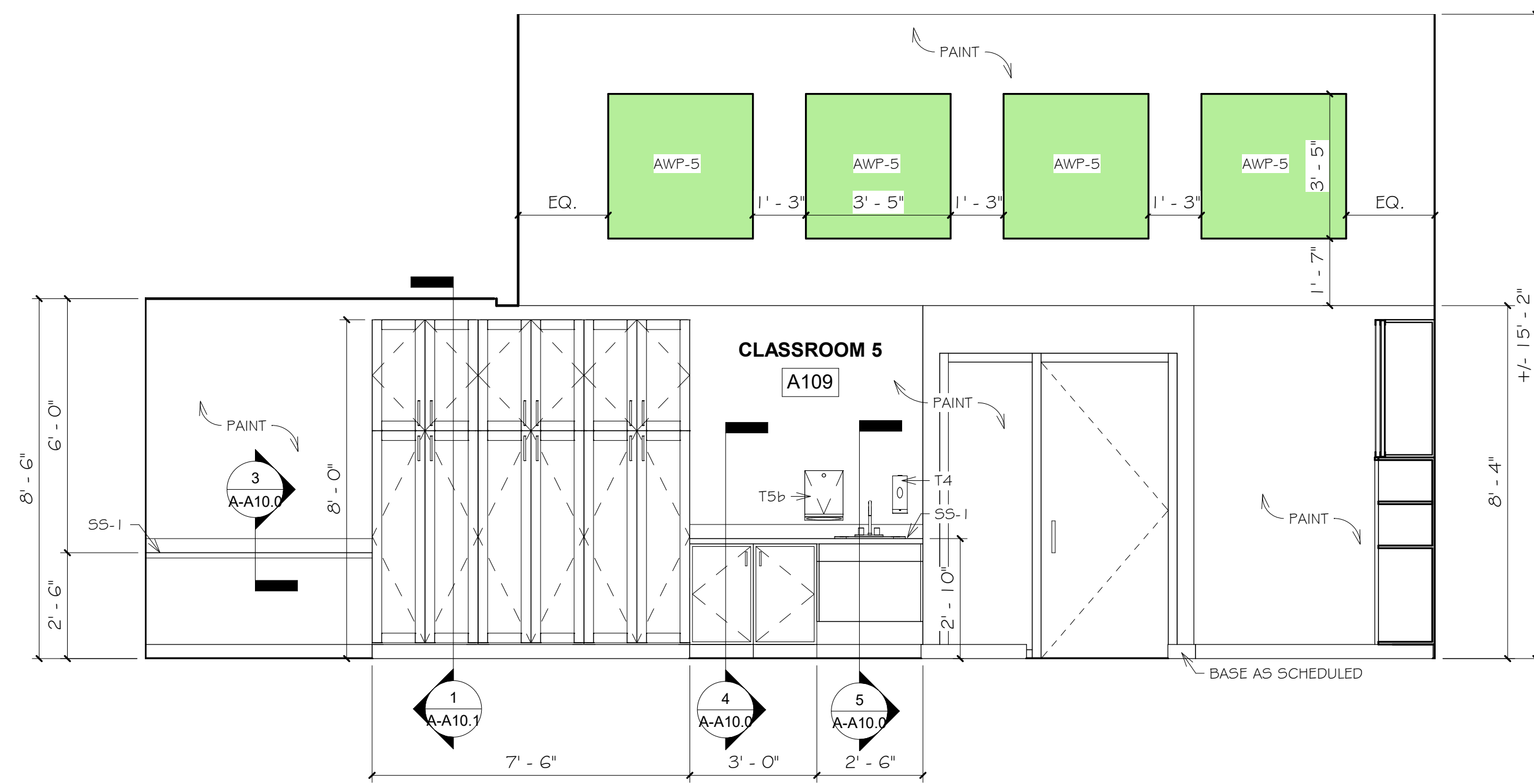
DRAWN BY: FK JOB NUMBER: 18050
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A-A7.2

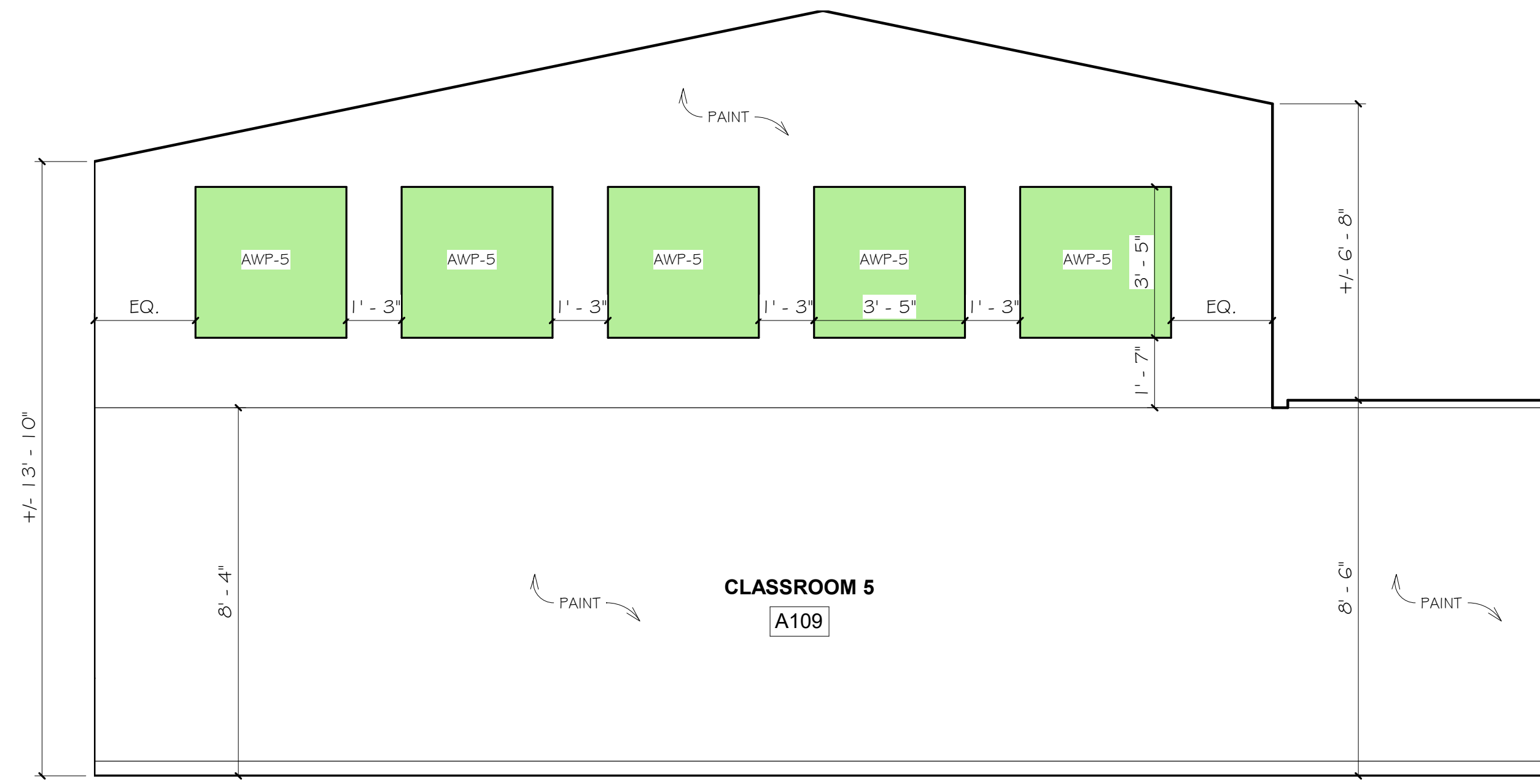
SHEET: OF:



1 A109 CLASSROOM - NORTH
3/8" = 1'-0"



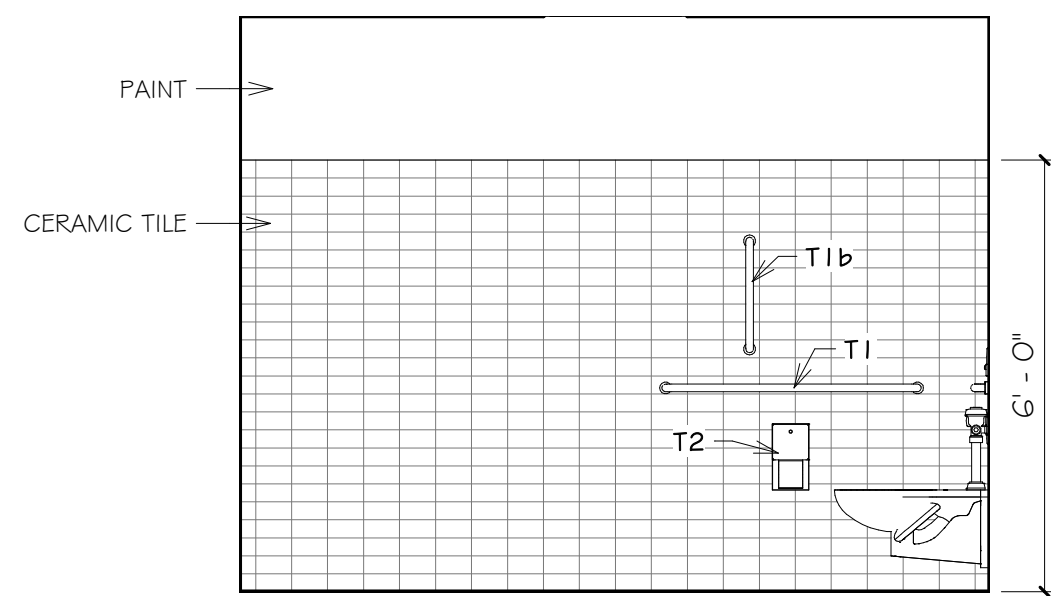
2 A109 CLASSROOM - SOUTH
3/8" = 1'-0"



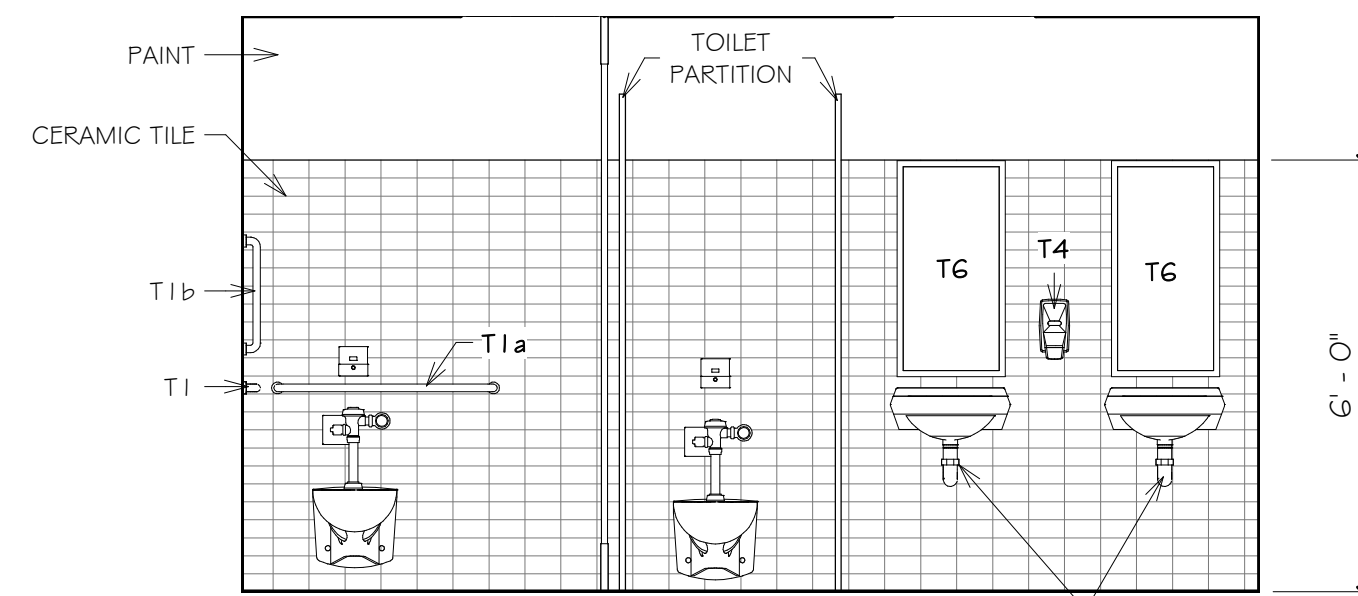
3 A109 CLASSROOM - EAST
3/8" = 1'-0"



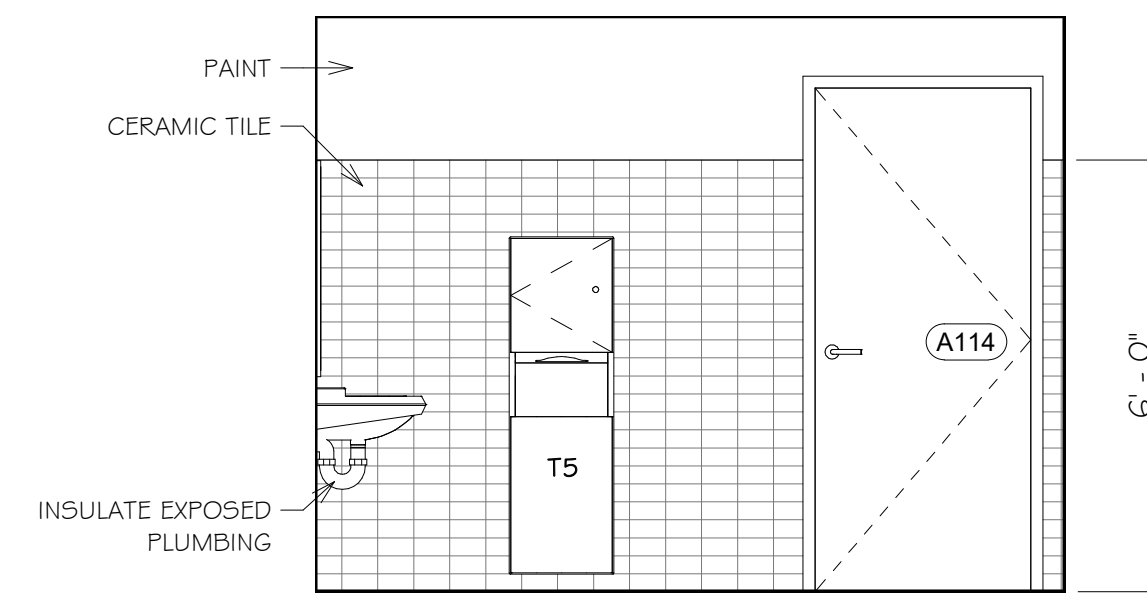
4 A109 CLASSROOM - WEST
3/8" = 1'-0"



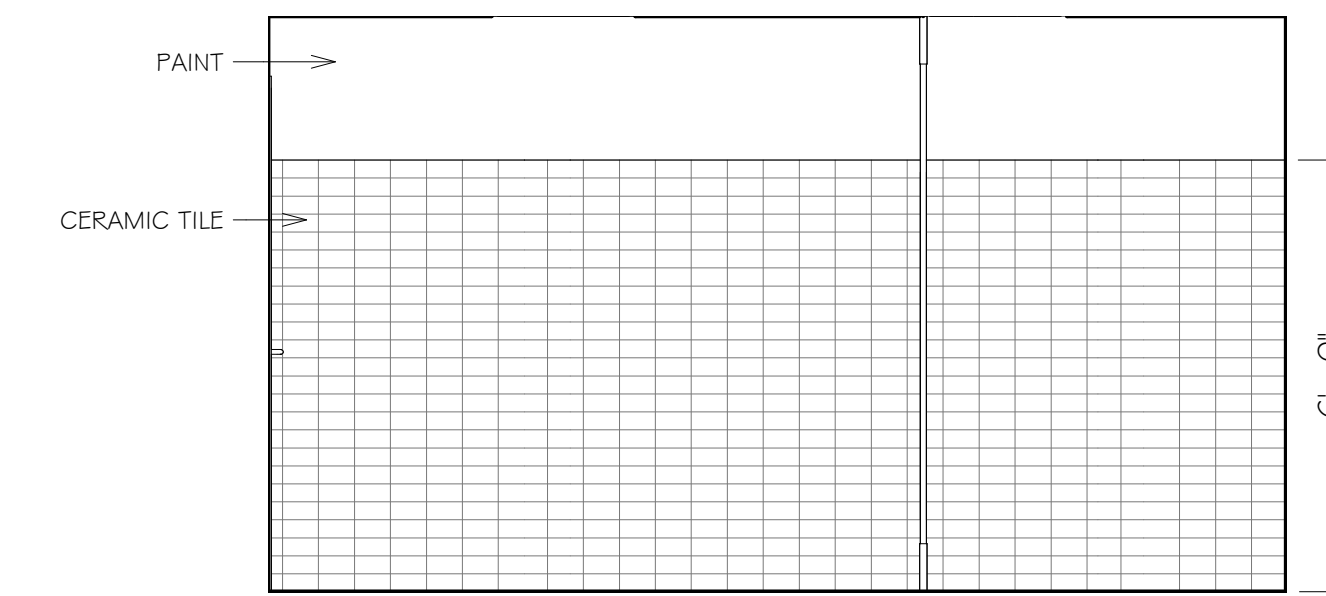
5 A114 MEN'S - NORTH
3/8" = 1'-0" TYPICAL FOR A114 & A115



6 A114 MEN'S - EAST
3/8" = 1'-0" TYPICAL FOR A114 & A115



7 A114 MEN'S - SOUTH
3/8" = 1'-0" TYPICAL FOR A114 & A115



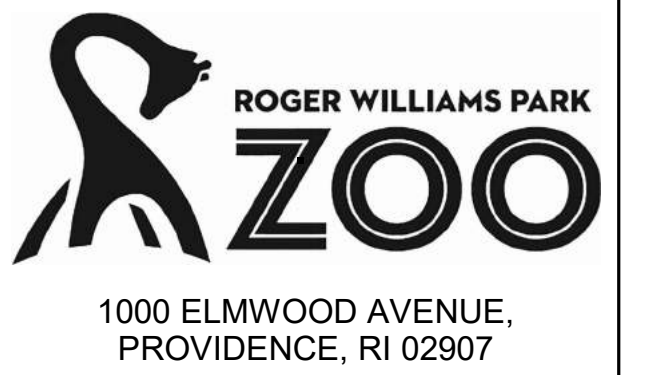
8 A114 MEN'S - WEST
3/8" = 1'-0" TYPICAL FOR A114 & A115



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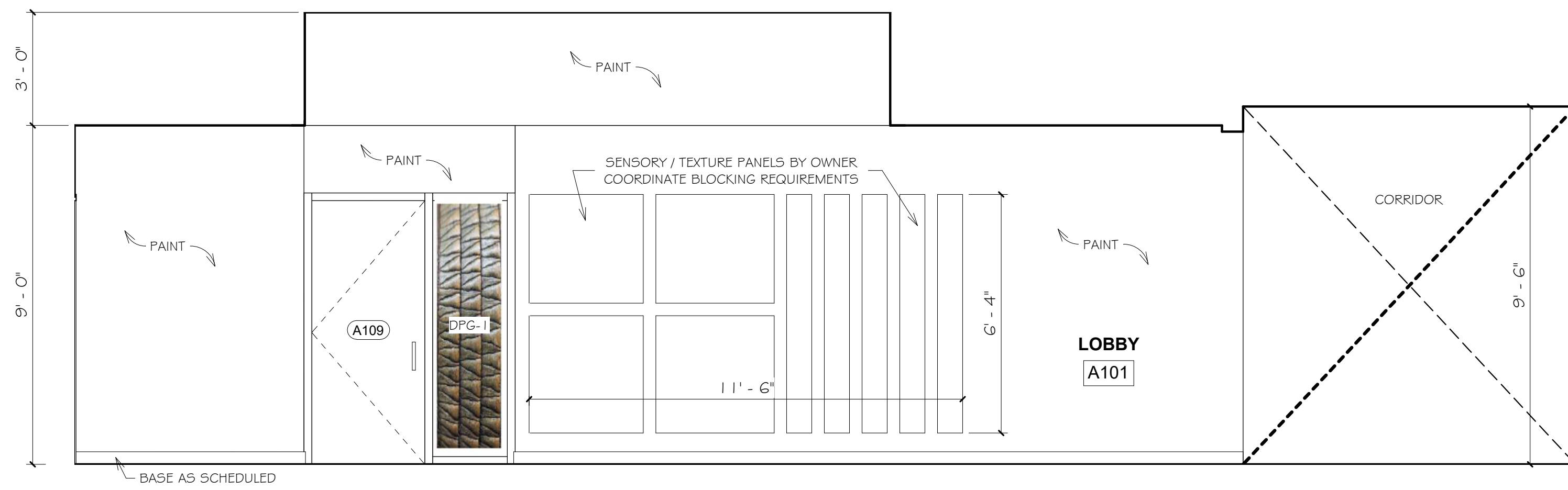
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SHEET TITLE
INTERIOR ELEVATIONS

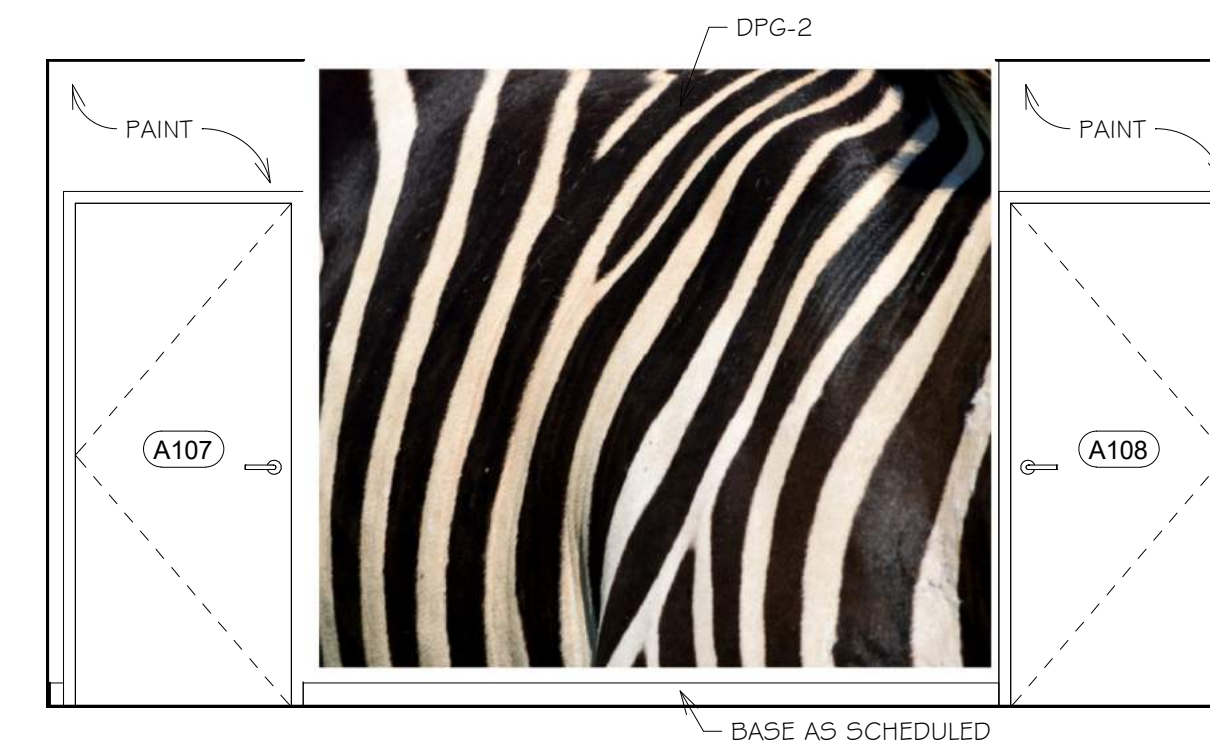
DRAWN BY: sos JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A7.3

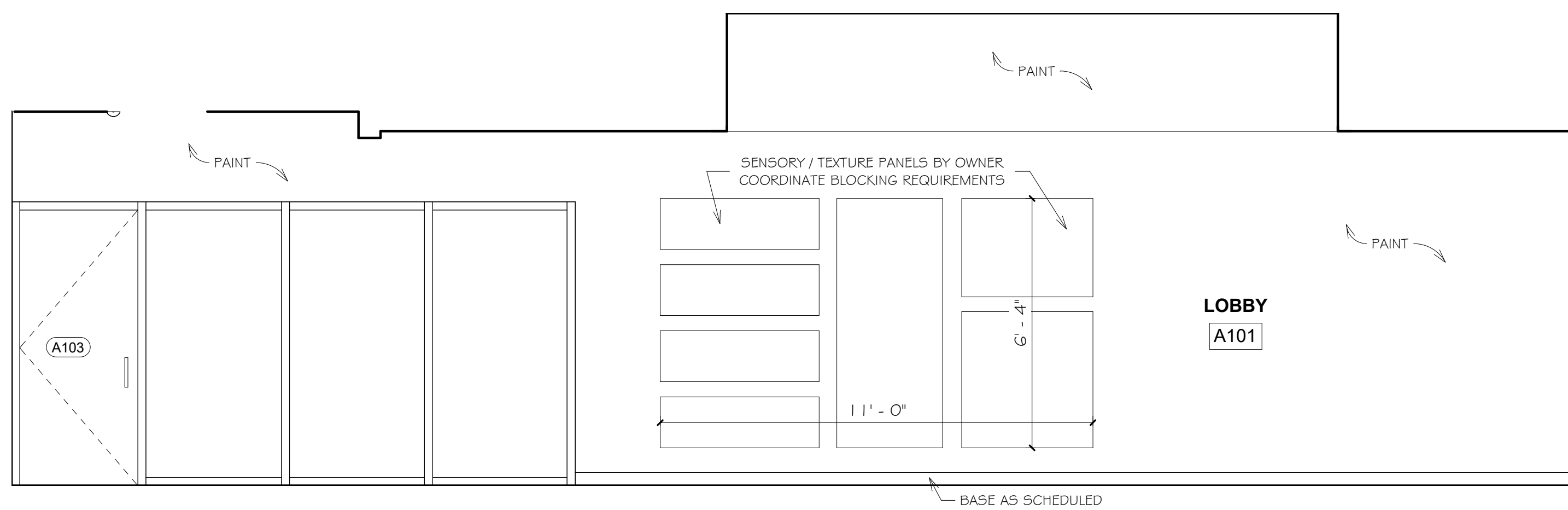
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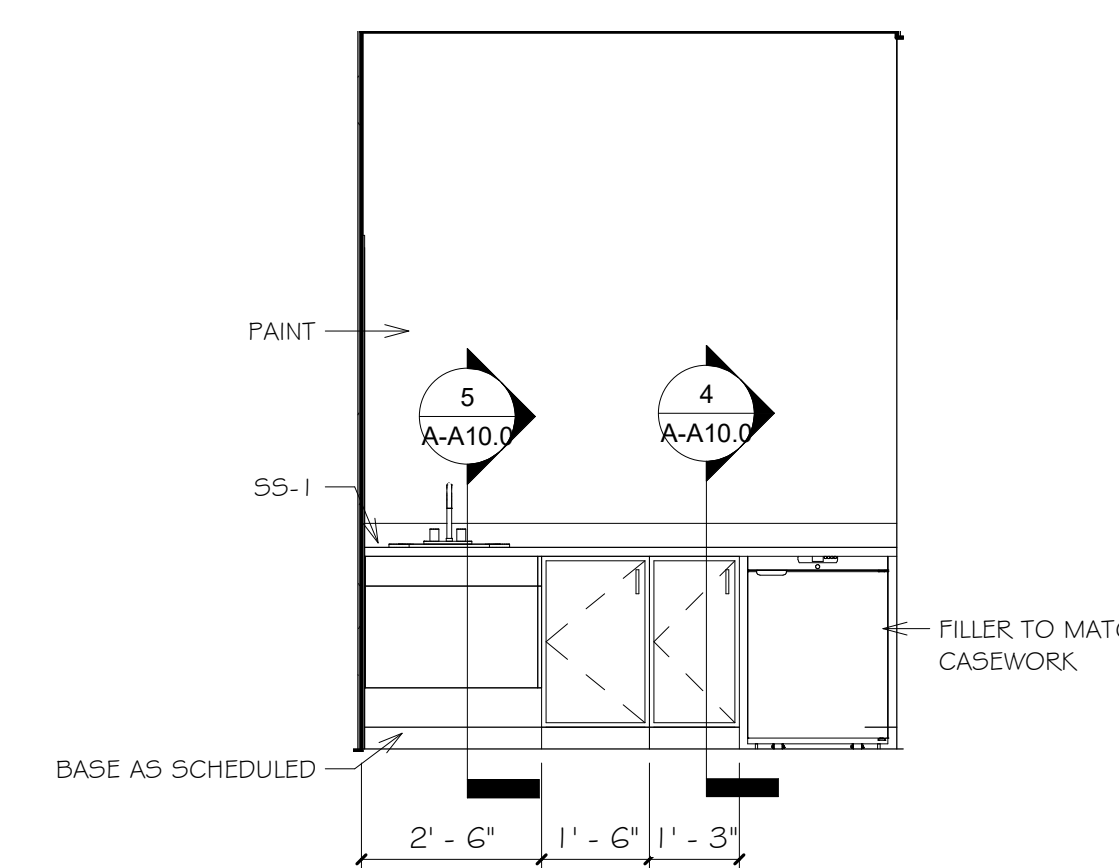
1 A101 LOBBY - NORTH
A-A7.4 3/8" = 1'-0"



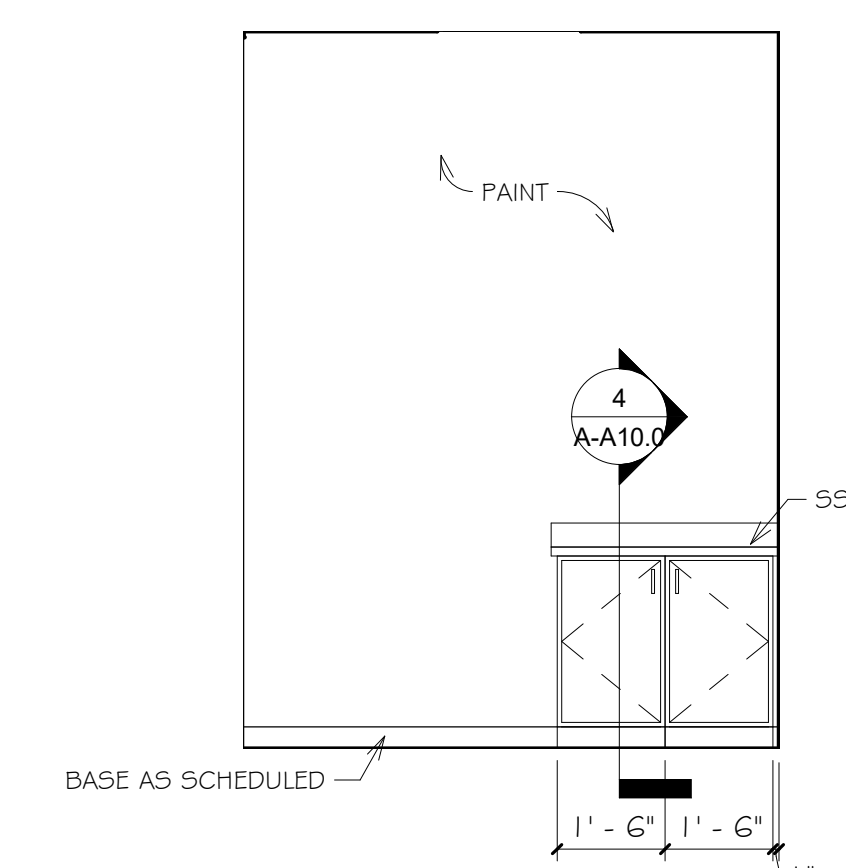
2 A101 LOBBY - WEST
A-A7.4 3/8" = 1'-0"



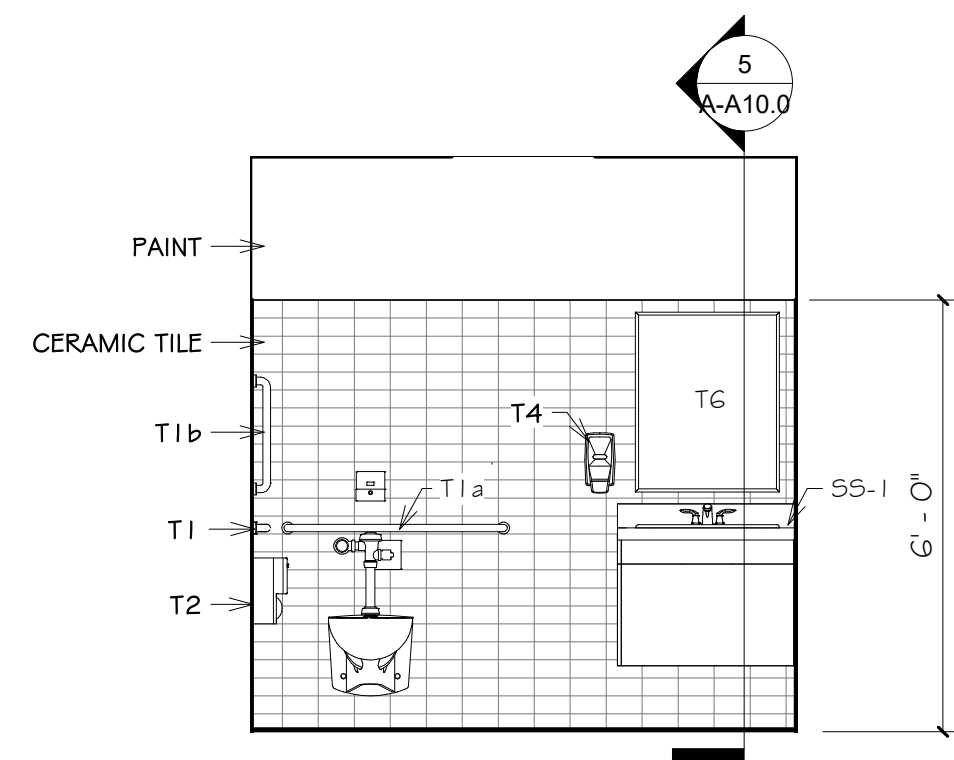
3 A101 LOBBY - SOUTH
A-A7.4 3/8" = 1'-0"



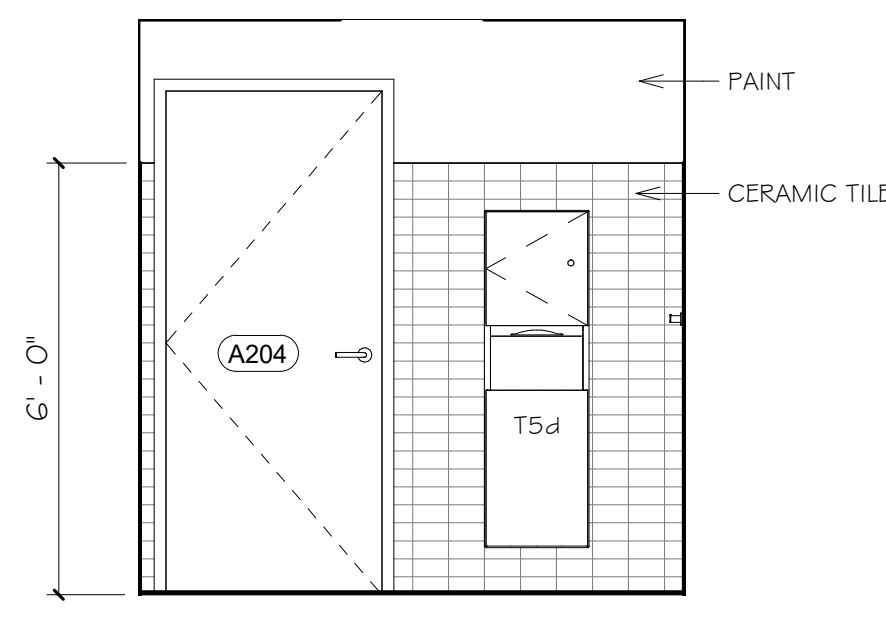
4 A212 WORK ROOM - EAST
A-A7.4 3/8" = 1'-0"



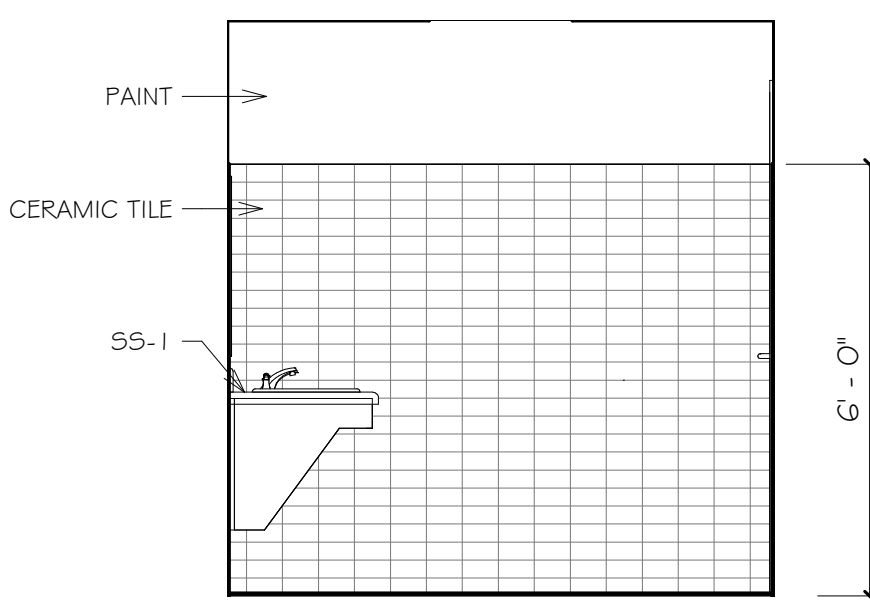
5 A212 WORK ROOM - WEST
A-A7.4 3/8" = 1'-0"



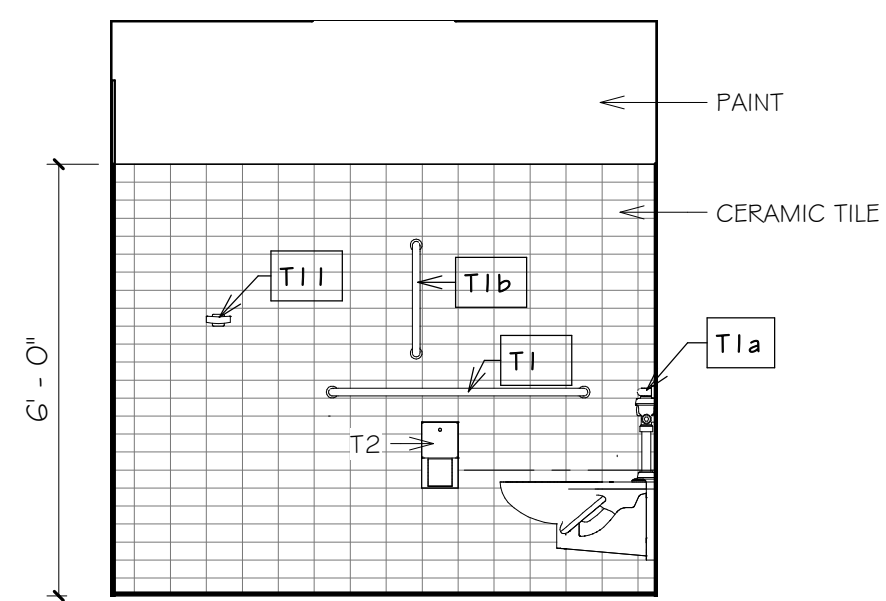
6 OFFICE TOILET NORTH
A-A7.4 3/8" = 1'-0" TYPICAL FOR A202 & A204



7 OFFICE TOILET SOUTH
A-A7.4 3/8" = 1'-0" TYPICAL FOR A202 & A204



8 OFFICE TOILET EAST
A-A7.4 3/8" = 1'-0" TYPICAL FOR A202 & A204



9 OFFICE TOILET WEST
A-A7.4 3/8" = 1'-0" TYPICAL FOR A202 & A204

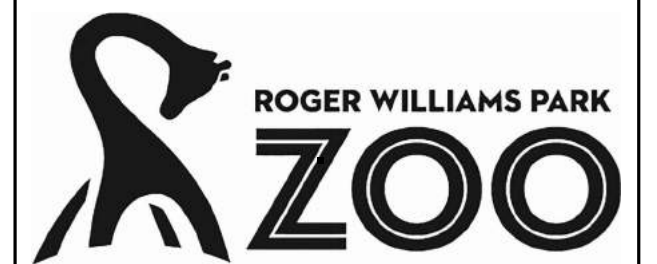
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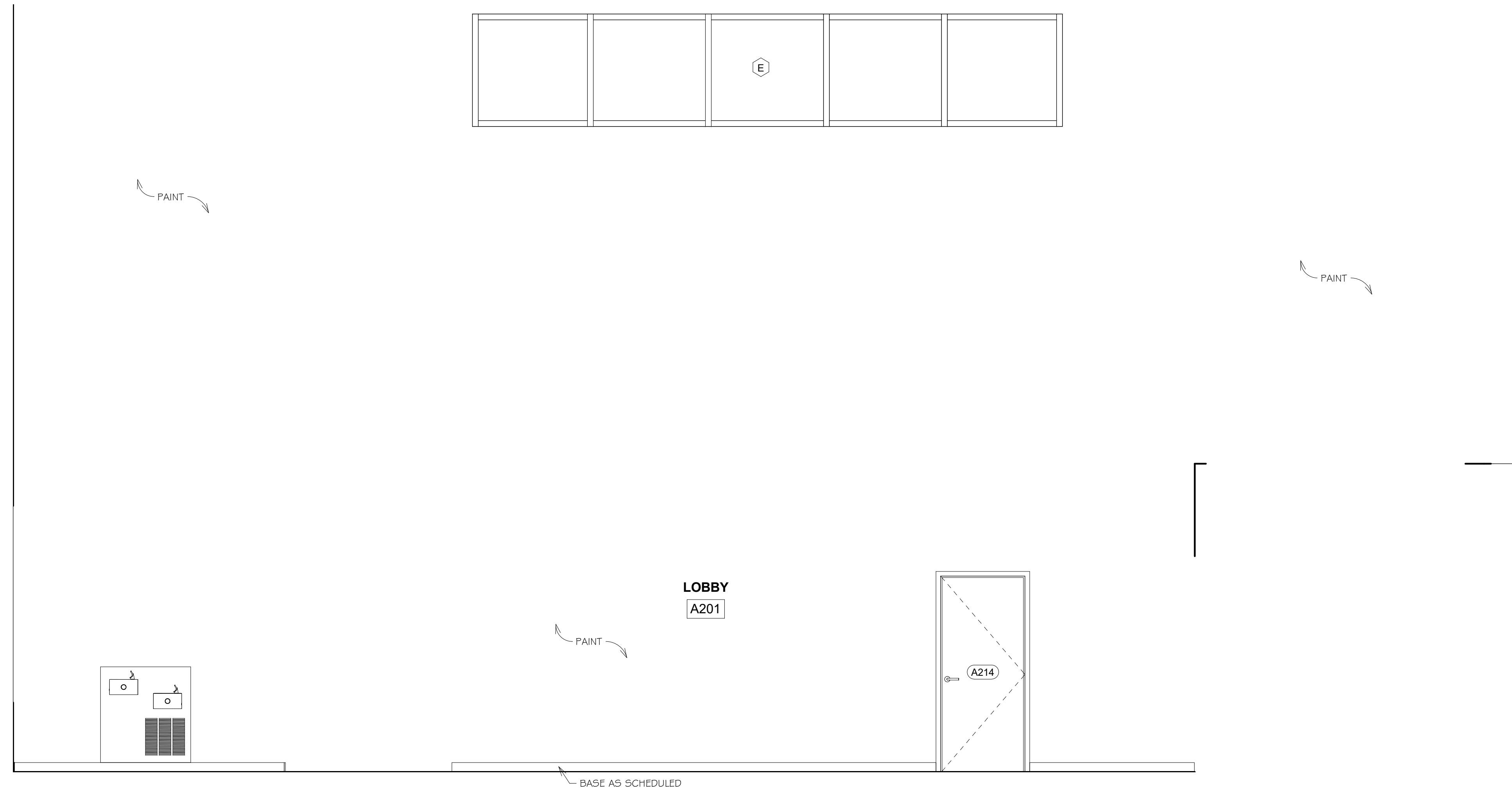
SHEET TITLE
INTERIOR
ELEVATIONS

DRAWN BY: FK JOB NUMBER: 18050

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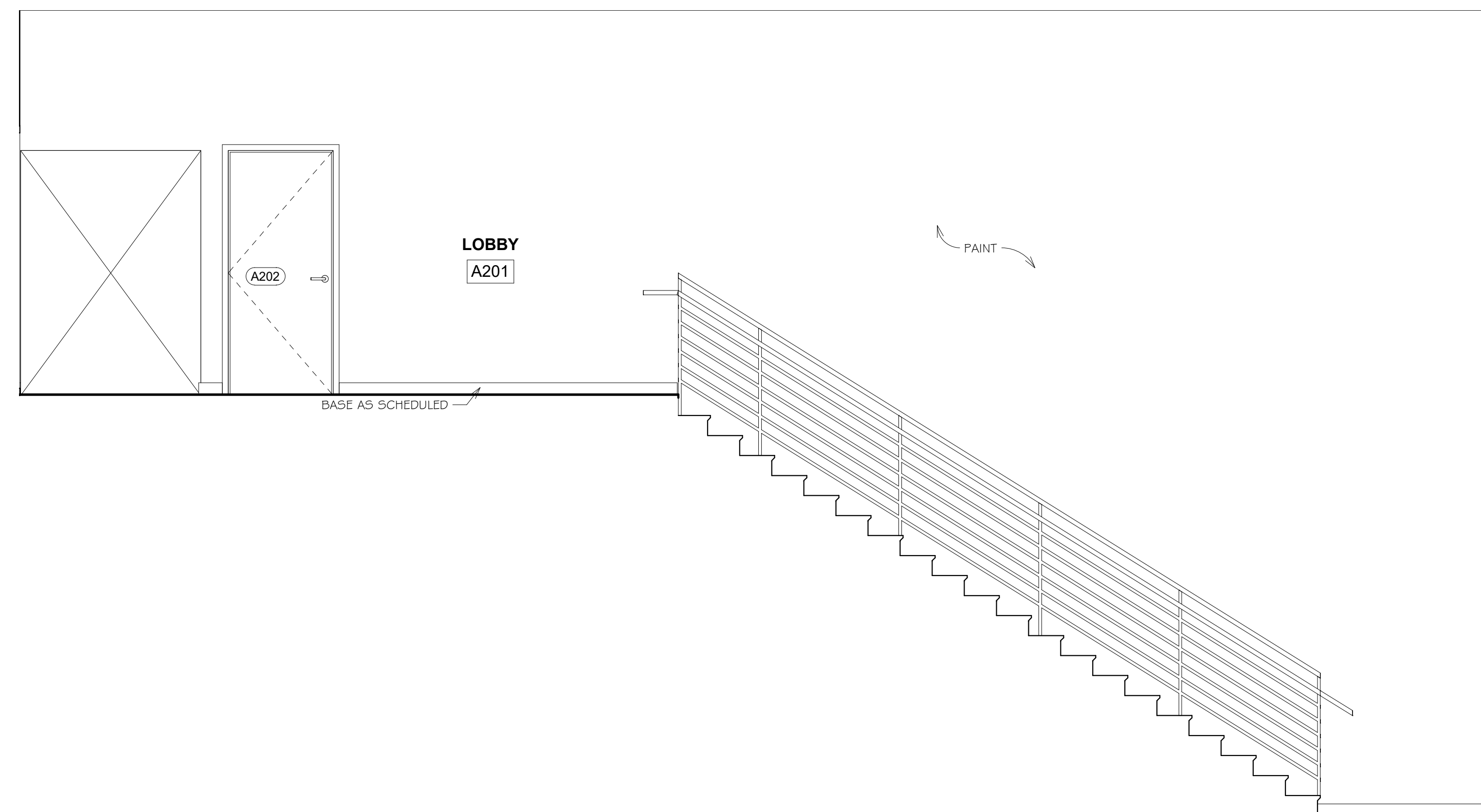
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SHEET: OF:

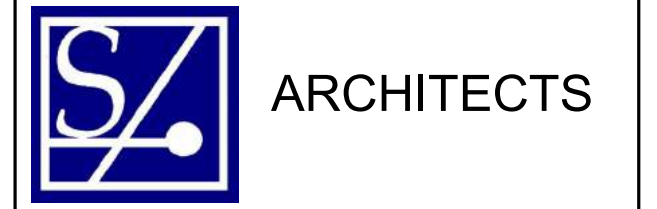


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 5. ALL TOE KICKS IN CASEWORK TO RECEIVE BASE SIMILAR TO BASE WITHIN ROOM.

1
A-A7.5
3/8" = 1'-0"
A201 LOBBY - NORTH



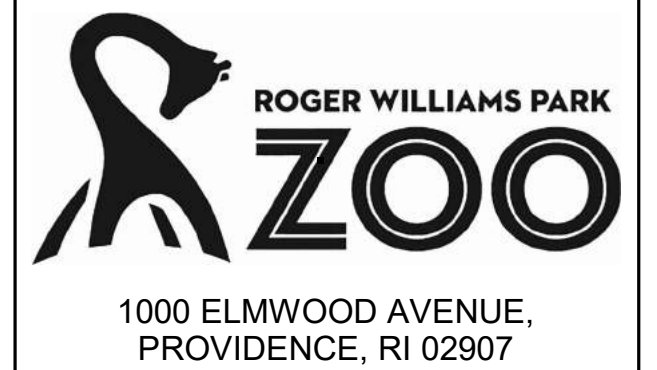
2
A-A7.5
3/8" = 1'-0"
A201 LOBBY - SOUTH



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SHEET TITLE
INTERIOR ELEVATIONS

DRAWN BY: SOS JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A7.5

SHEET: OF:

NOTES:

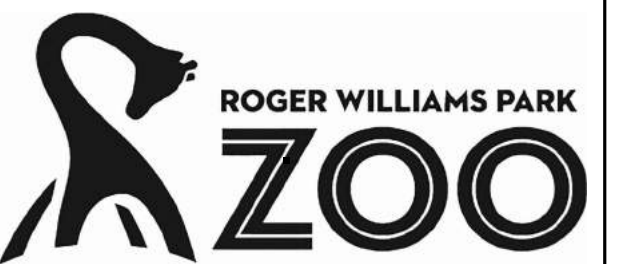
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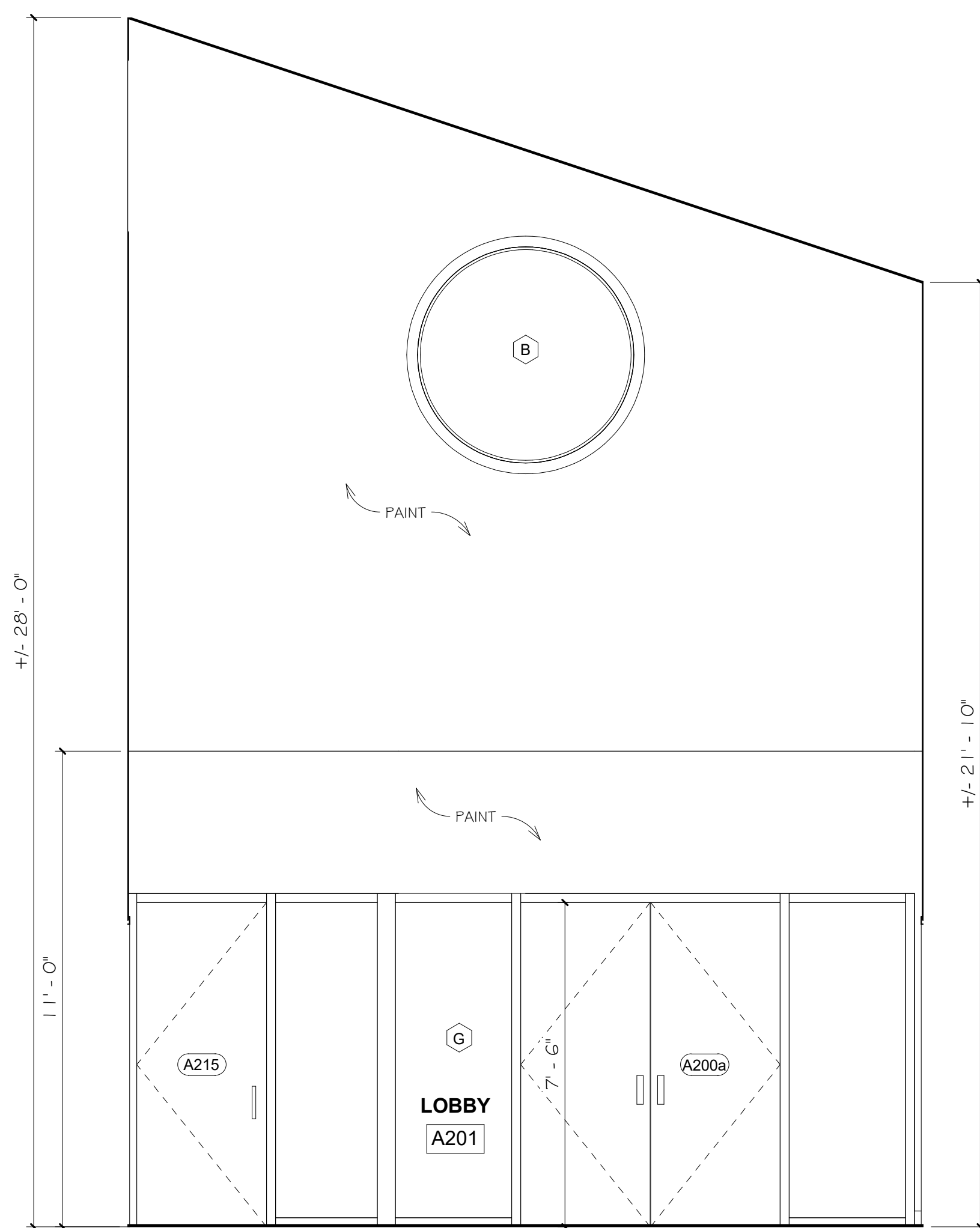
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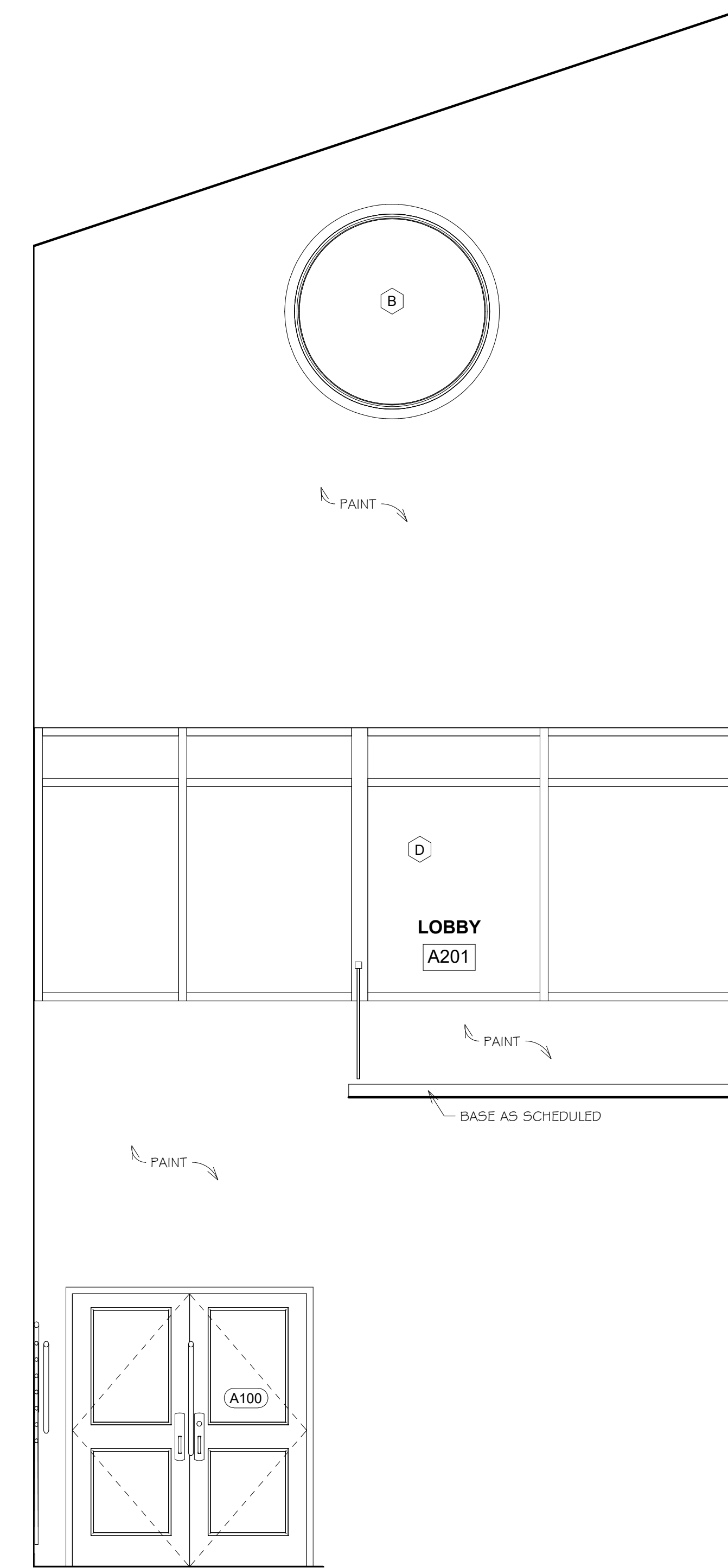
DRAWN BY: SOS JOB NUMBER: 18050
 CHECKED BY: MS DATE: 05/01/2024

A-A7.6

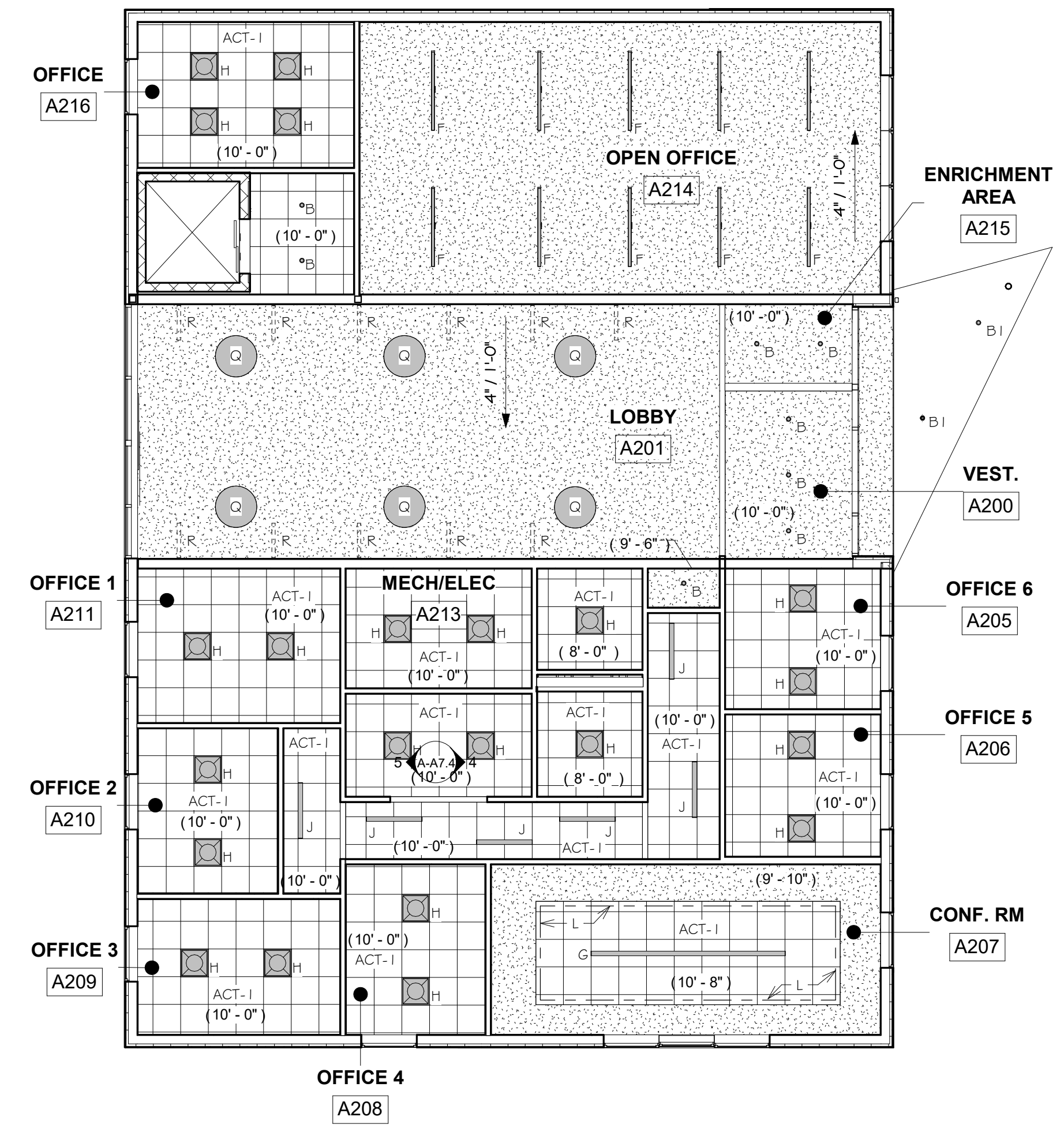
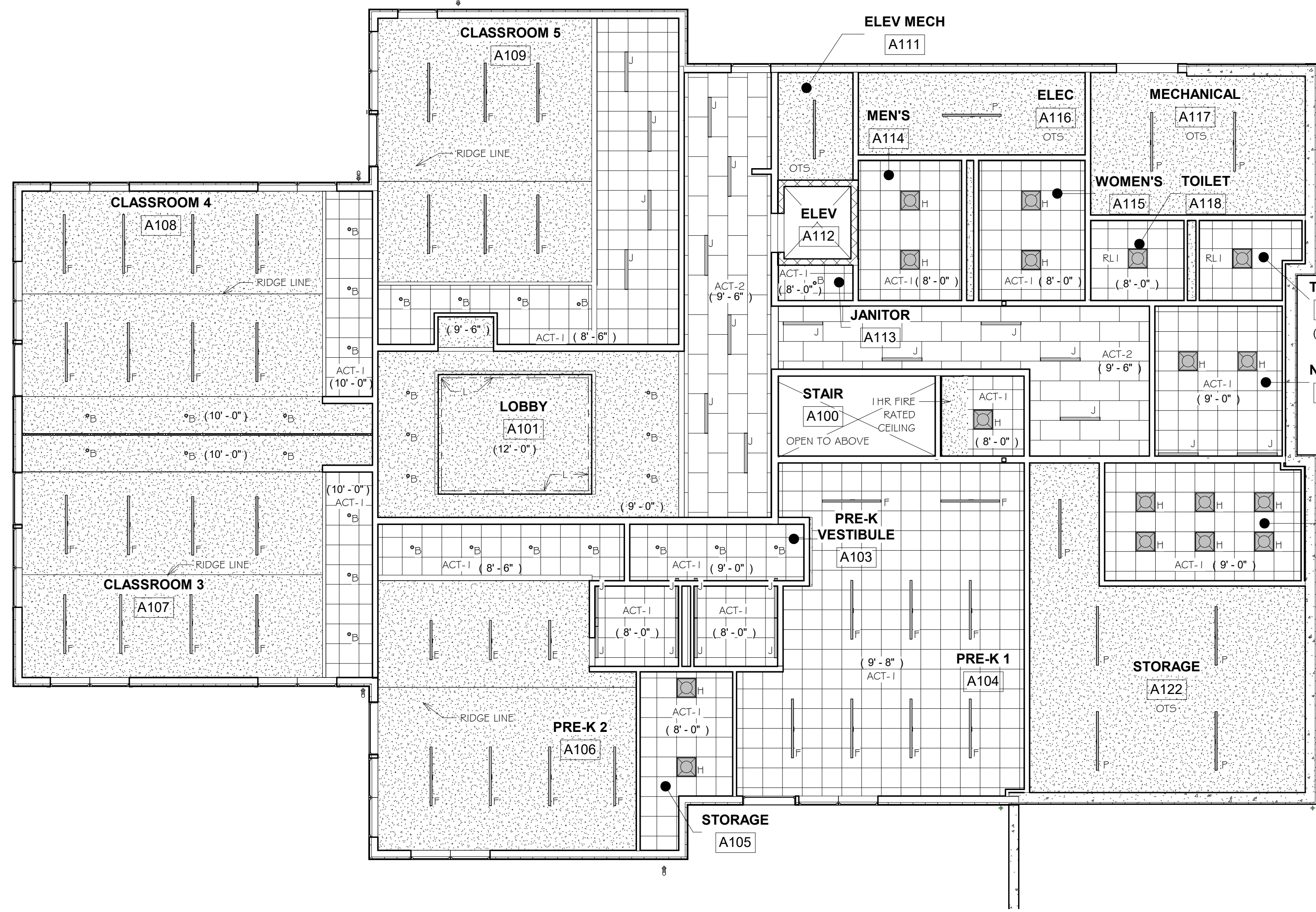
SHEET: OF:



1
 A-A7.6
 3/8" = 1'-0"
A201 LOBBY - EAST

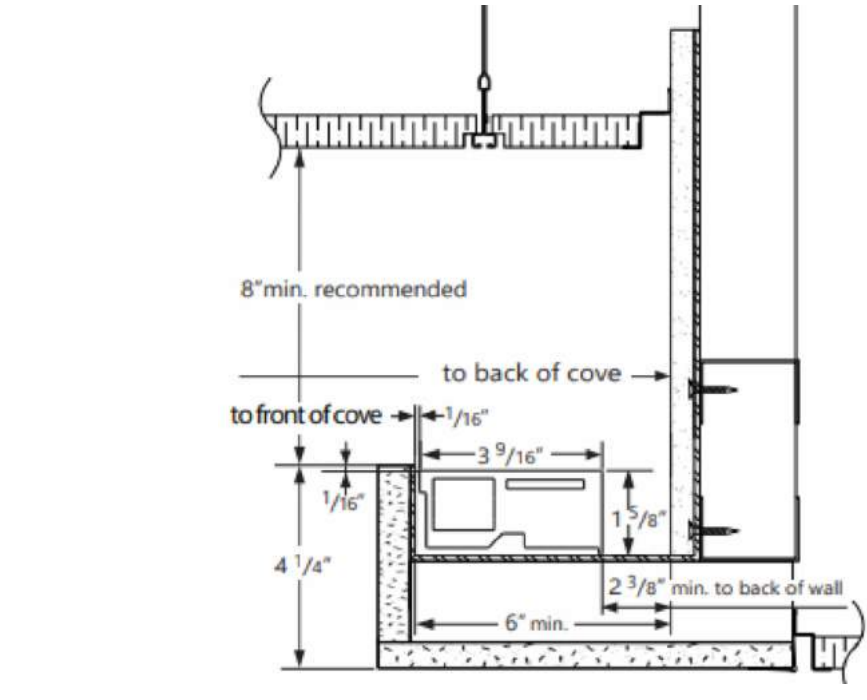
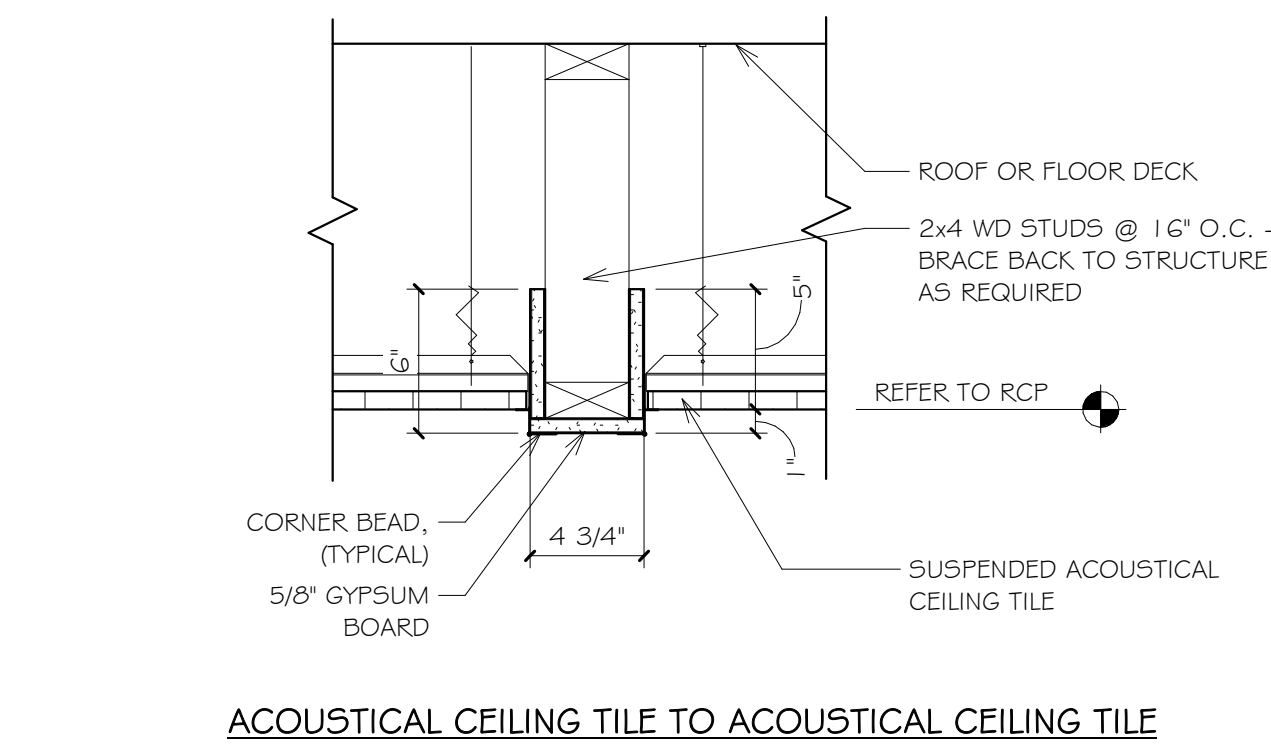


2
 A-A7.6
 3/8" = 1'-0"
A201 LOBBY - WEST



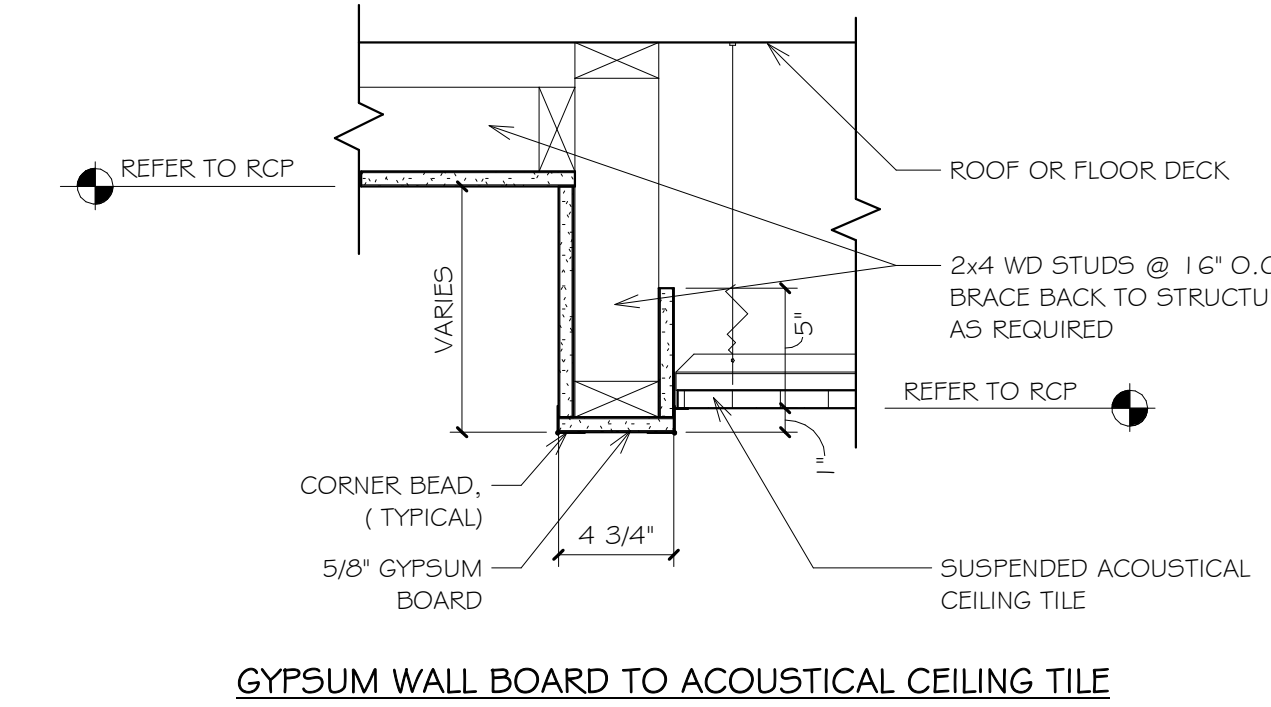
1 E.C. LOWER CEILING PLAN
1/8" = 1'-0"

2 E.C. UPPER CEILING PLAN
1/8" = 1'-0"



3 CEILING SOFFIT TRANSITION DETAIL
1 1/2" = 1'-0"

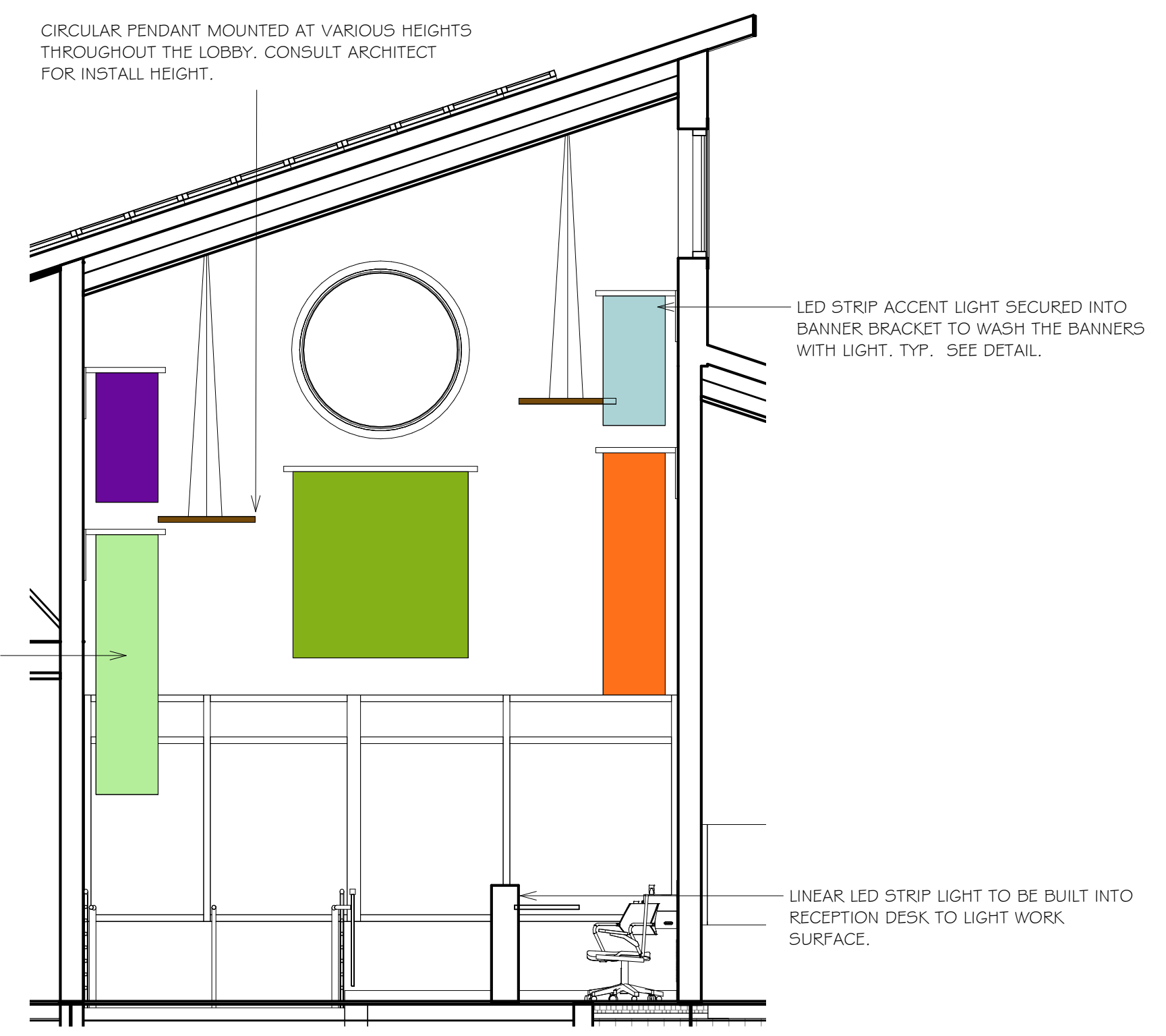
5 COVE LIGHT DETAIL
3" = 1'-0"



4 CEILING SOFFIT TRANSITION DETAIL
1 1/2" = 1'-0"



BANNERS
BANNER DESIGNS TO BE LARGE GRAPHICS OR OTHERWISE SUPPLIED BY CLIENT. SEE BELOW.



6 LOBBY PENDANT LIGHTING AND BANNER
1/4" = 1'-0"

LEGEND

- 2x2' ACOUSTICAL LAY-IN TILE
- NEW PAINTED 5/8" GWB. PROVIDE METAL CEILING OR SOFFIT CONSTRUCTION AS REQUIRED. PROVIDE FIRE-RATED ASSEMBLIES WHERE NOTED
- (X'-X') CEILING HEIGHT
OTS = OPEN TO STRUCTURE
BOS = BOTTOM OF STRUCTURE
- 2x4' ACOUSTIC TILE, LAY IN GRID-TRUE RUNNING BOND PATTERN, WITH LINEAR RECESSED LED DOWNLIGHT.
- TECTUM ACOUSTICAL TILES, LAY IN GRID
- TECTUM ACOUSTICAL PANELS, SURFACE MOUNTED OVER GWB
- ARMSTRONG INTEGRATED TECHZONE CEILING WITH RECESSED LINEAR OR PENDANT HUNG FIXTURES
- SLIM PROFILE PENDANT LIGHTING
- CIRCULAR PENDANT HUNG FIXTURE

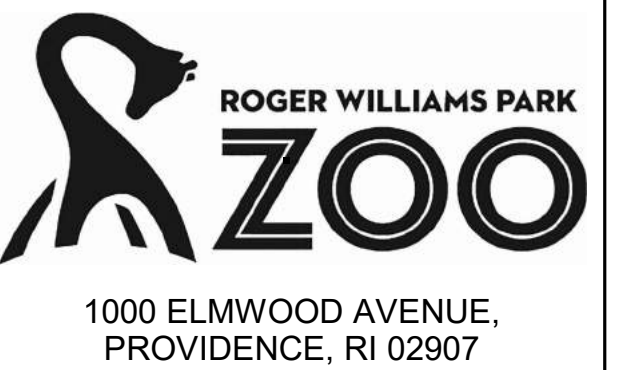
NOTES

- WOOD FLOOR ASSEMBLY TO BE ONE HOUR, #UL L508. SEE DETAIL 3/G2.1 FOR MORE INFORMATION



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SHEET TITLE
REFLECTED CEILING PLAN

DRAWN BY: SOS JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

A-A8.0

SHEET: OF:

ROOM FINISH SCHEDULE										
ROOM #	ROOM NAME	WALLS				FLOOR	BASE		CEILING	COMMENTS
		NORTH	SOUTH	EAST	WEST		MAT.	HT		
A100	STAIR	PT2	PT2	PT2	PT2	RUB-1	B3	4"	GWB	
A101	LOBBY	PT1	PT1	PT1	PT1 / DPG-2	SC1 / SC5	B1	4"	GWB	SEE INTERIOR ELEVATIONS FOR DPG-2
A102	CORRIDOR	PT1	PT1	PT1	PT1	SC2	B1	4"	ACT-2	
A103	PRE-K VESTIBULE	PT1	PT1 / DPG-2	PT1	PT1	SC3	B1	4"	ACT-1	SEE INTERIOR ELEVATION FOR DPG-2
A104	PRE-K 1	PT1	PT1	PT1	PT1	LIN1 / LIN3	B1	4"	ACT-1	
A104a	TOILET	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	LIN1	B2		ACT-1	COVE BASE TO MATCH WALL TILE
A105	STORAGE	PT1	PT1	PT1	PT1	LIN1	B1	4"	ACT-1	
A106	PRE-K 2	PT1	PT1	PT1	PT1	LIN1, LIN3	B1	4"	ACT-1	
A106a	TOILET	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	LIN1	B2		ACT-1	COVE BASE TO MATCH WALL TILE
A107	CLASSROOM 3	PT1	PT1	PT1	PT1	LIN1 / LIN2	B1	4"	GWB / ACT-1	
A108	CLASSROOM 4	PT1	PT1	PT1	PT1	LIN1 / LIN2	B1	4"	GWB / ACT-1	
A109	CLASSROOM 5	PT1	PT1	PT1	PT1	LIN1 / LIN2	B1	4"	GWB / ACT-1	
A110	CORRIDOR	PT1	PT1	PT1	PT1	SC4	B1	4"	ACT-2	
A111	ELEV MECH	PT1	PT1	PT1	PT1	UNFINISHED CONCRETE	B1	4"	GWB	
A112	ELEV	-	-	-	-	-	-	4"		SEE ELEVATOR SPECIFICATION FOR FINISHES
A113	JANITOR	PT1	PT1	PT1	PT1	SC5	B1	4"	ACT1	
A114	MENS	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	SC3	B2	4"	ACT1	COVE BASE TO MATCH WALL TILE
A115	WOMEN'S	CT-1 / PT1	CT-1 / PT1	CT-1 / PT-1	CT-1 / PT1	SC4	B2	4"	ACT1	COVE BASE TO MATCH WALL TILE
A116	ELEC					UNFINISHED CONCRETE			GWB	
A117	MECHANICAL					UNFINISHED CONCRETE			GWB	
A118	TOILET	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	SC3	B2		ACT-1	COVE BASE TO MATCH WALL TILE
A119	TOILET	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	CT-1 / PT1	SC3	B2		ACT-1	COVE BASE TO MATCH WALL TILE
A120	NURSE	PT1	PT1	PT1	PT1	SC3	B1	4"	ACT-1	
A121	BREAKROOM	PT1	PT1	PT1	PT1	LIN2	B1	4"	ACT-1	
A122	STORAGE	PT1	PT1	PT1	PT1	UNFINISHED CONCRETE	B1	4"	GWB	
A123	STOR.	PT1	PT1	PT1	PT1	SC5	B1	4"	GWB / ACT-1	
A200	VEST.	PT2	PT2	PT2	PT2	WM-1	B3	4"	GWB	
A201	LOBBY	PT2 / DPG-2	PT2	PT2	PT2	PT1 / PT2	B2	4"	GWB	FLOOR PATTERN A / SEE ELEV FOR DPG-2
A202	TOILET	CT-1 / PT2	CT-1 / PT2	CT-1 / PT2	CT-1 / PT2	PT 2	B2	4"	ACT-1	FLOOR PATTERN B
A203	CORRIDOR	PT2	PT2	PT2	PT2	PT2	B2	4"	ACT-1	FLOOR PATTERN B
A204	TOILET	CT-1 / PT2	CT-1 / PT2	CT-1 / PT2	CT-1 / PT2	PT2	B2	4"	ACT-1	FLOOR PATTERN B
A205	OFFICE 6	PT3	PT3	PT3	PT3	LIN4	B3	4"	ACT-1	
A206	OFFICE 5	PT3	PT3	PT3	PT3	LIN4	B3	4"	ACT-1	
A207	CONF. RM	PT3	PT3	PT3	PT3	LIN4	B3	4"	GWB / ACT1	
A208	OFFICE 4	PT3	PT3	PT3	PT3	LIN4	B3	4"	ACT-1	
A209	OFFICE 3	PT3	PT3	PT3	PT3	LIN4	B3	4"	ACT-1	
A210	OFFICE 2	PT3	PT3	PT3	PT3	LIN4	B3	4"	ACT-1	
A211	OFFICE 1	PT3	PT3	PT3	PT3	LIN4	B3	4"	ACT-1	
A212	WORK RM	PT3	PT3	PT3	PT3	LIN4	B3	4"	ACT-1	
A213	MECH/ELEC					LIN5	B3	4"	ACT-1	
A214	OPEN OFFICE	PT3	PT3	PT3	PT3	LIN4	B3	4"	GWB	
A215	ENRICHMENT AREA	DWP	-	-	-	PT1 / PT2	B2	4"	GWB	FLOOR PATTERN A
A216	OFFICE	PT3	PT3	PT3	PT3	LIN4	B3	4"	ACT-1	

FINISH SCHEDULE NOTES

1. ANY ROOM(S) FOUND ON OTHER PLANS AND NOT INDICATED ON FINISH SCHEDULE SHALL RECEIVE MINIMALLY LIN, RB, ACT AND PT. NOTIFY ARCHITECT OF MISSING ROOM PRIOR TO COMMENCING ANY WORK IN THESE AREAS.
2. 5/8" GWB TO BE REPLACED w/ 5/8" CEMENTITIOUS TILE BACKER BOARD WHEREVER ANY PORTION OF A WALL OR CEILING IS SCHEDULED TO RECEIVE CT.
3. ALL INTERIOR ARCHITECTURAL WOODWORK SHALL RECEIVE FINISH TO MATCH DOOR FINISH WITHIN THE SAME ROOM UNLESS OTHERWISE SPECIFIED.
4. ALL CLASSROOMS AND DAYCARE TO HAVE WALL MOUNTED WHITE BOARD/MAGNETIC MARKER BOARD AND CORNER MOUNTED TV ON SWIVEL BRACKET.



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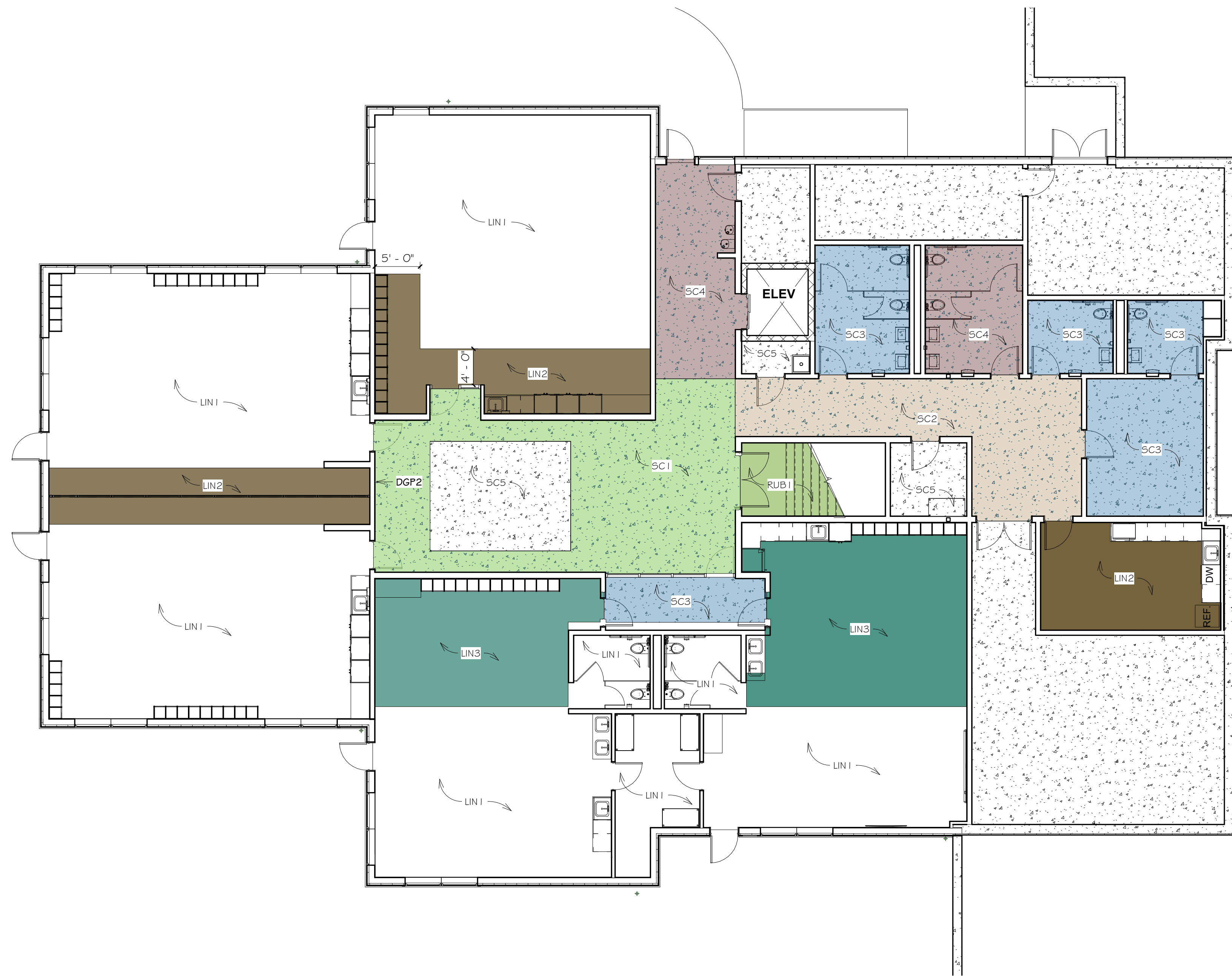
ISSUED FOR BID
 April 18, 2024

SHEET TITLE
FINISH & MATERIALS SCHEDULE

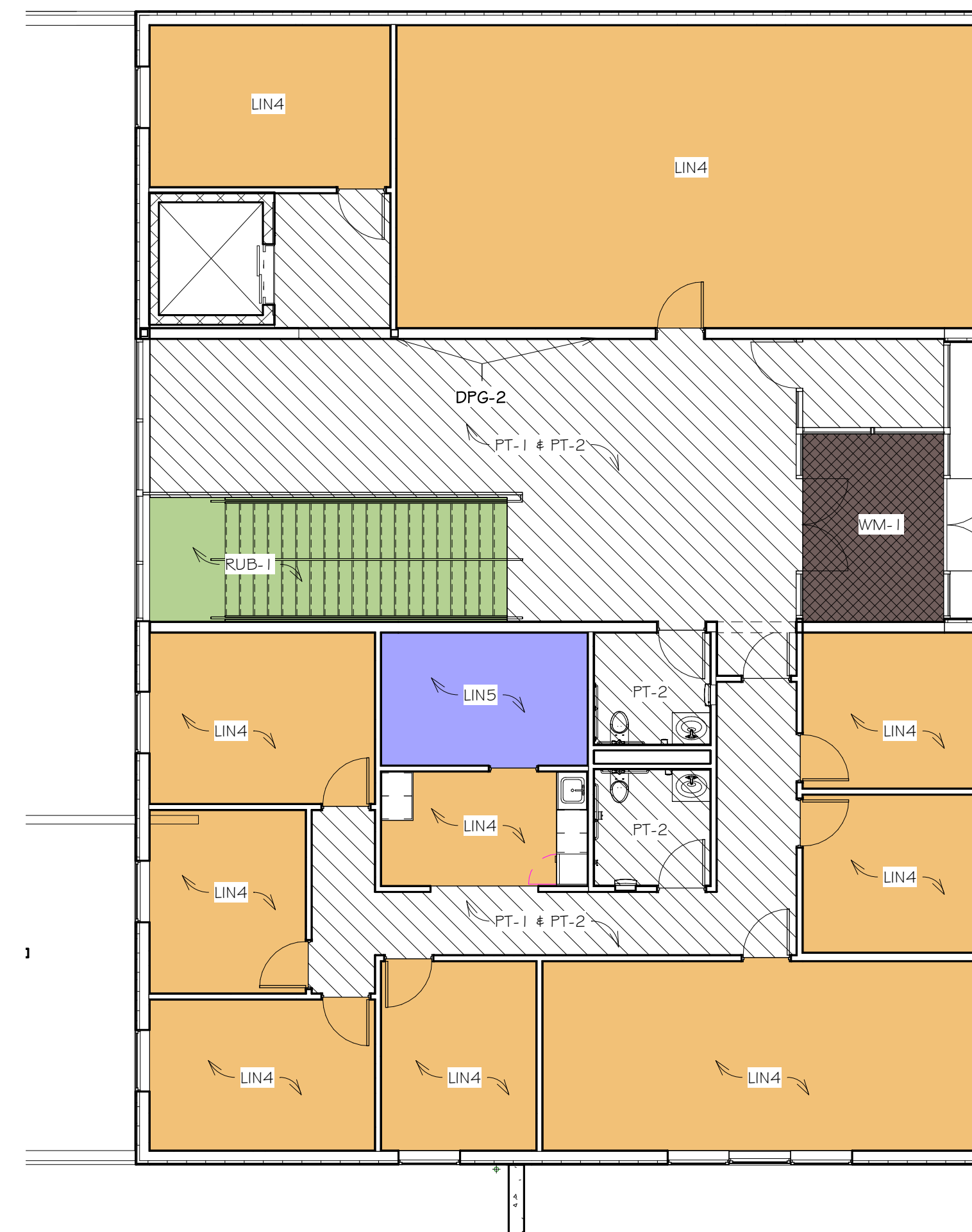
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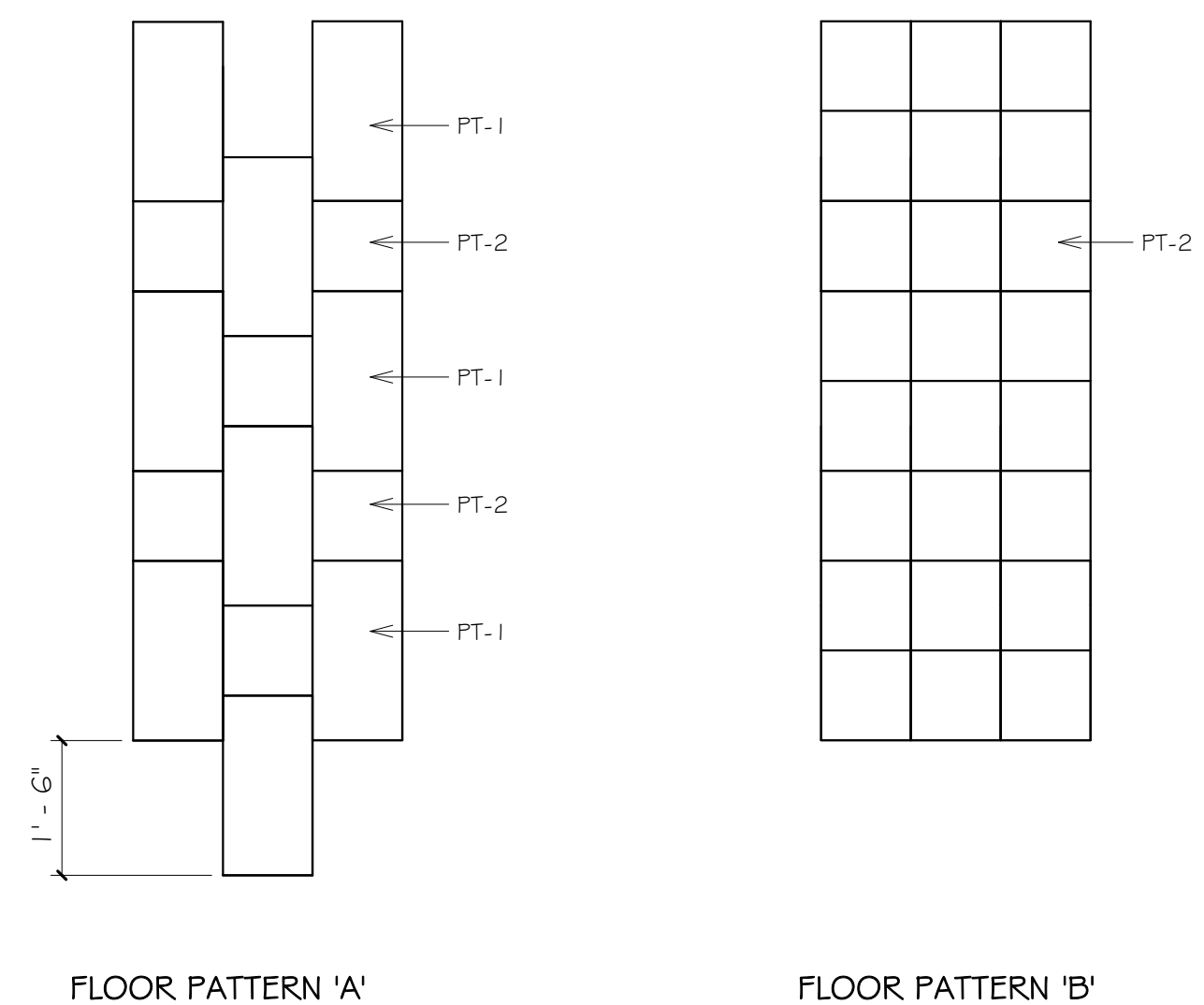
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1 LOWER LEVEL FINISH PLAN
1/8" = 1'-0"



2 UPPER LEVEL FINISH PLAN
1/8" = 1'-0"



3 FLOOR PATTERNS
1/2" = 1'-0"



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Revision Schedule

Revision Number	Revision Date

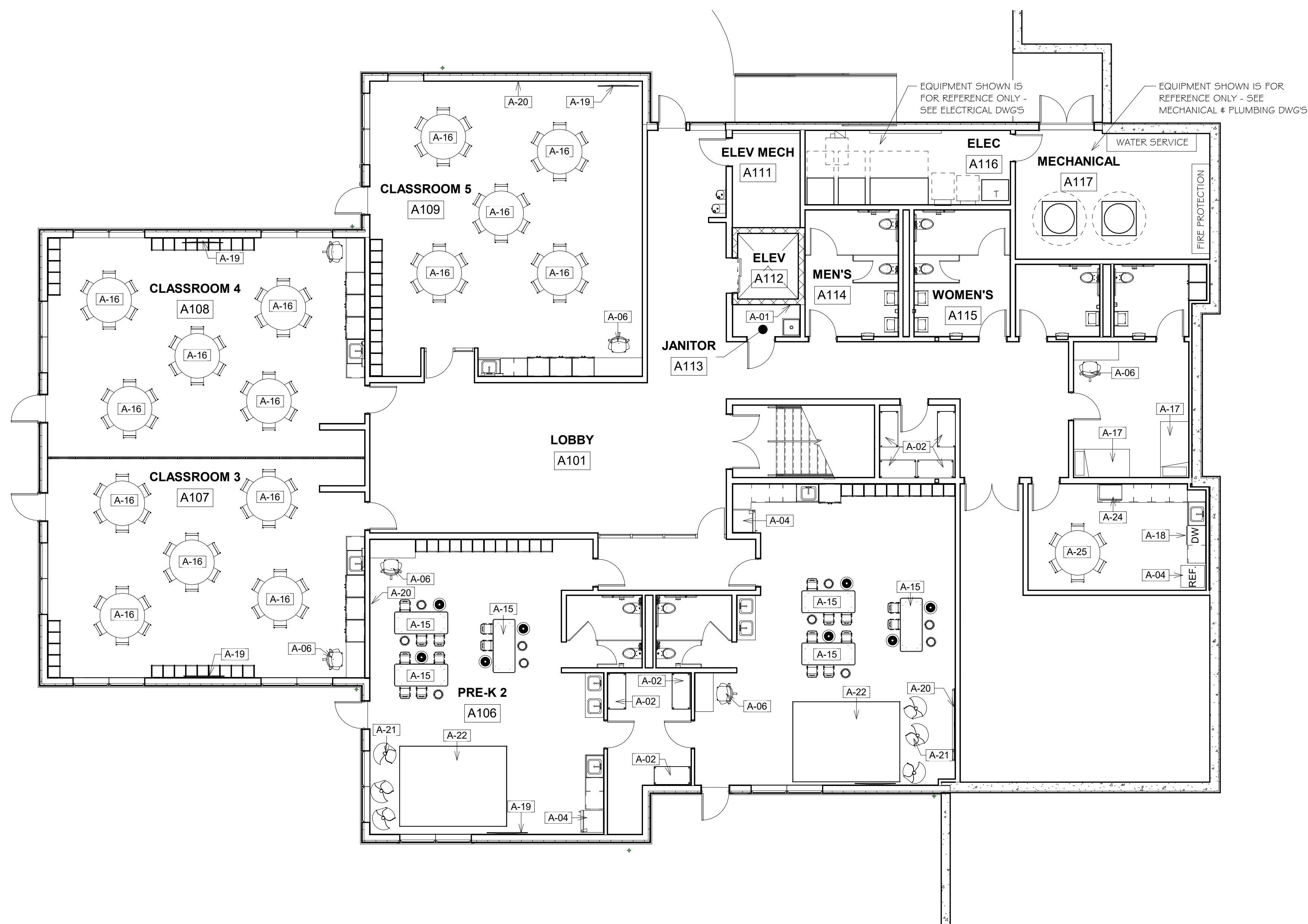
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April 18, 2024

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FINISH PLANS

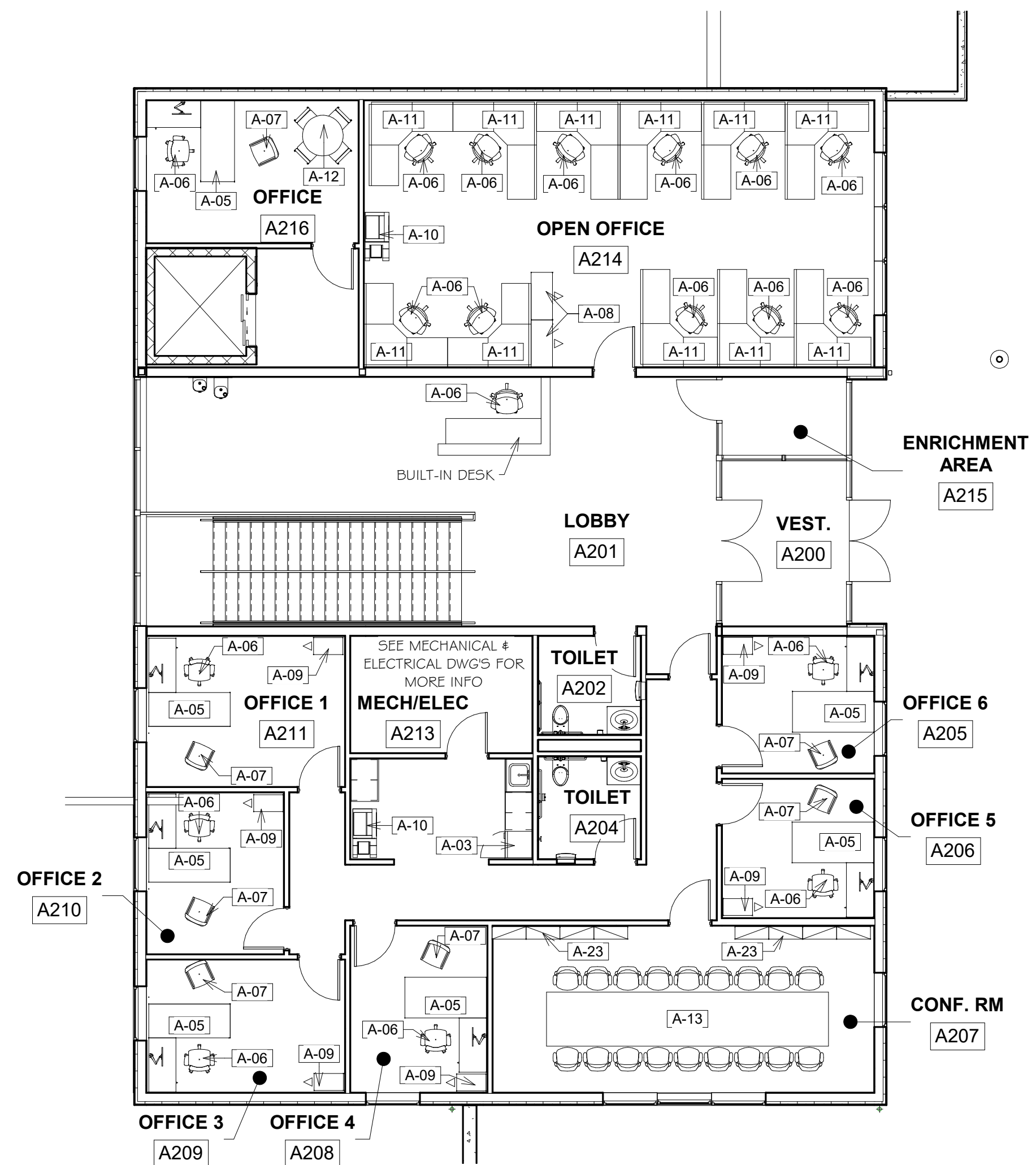
DRAWN BY: SOS JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

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SHEET: OF:



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



2 FURNITURE PLAN
1/8" = 1'-0"

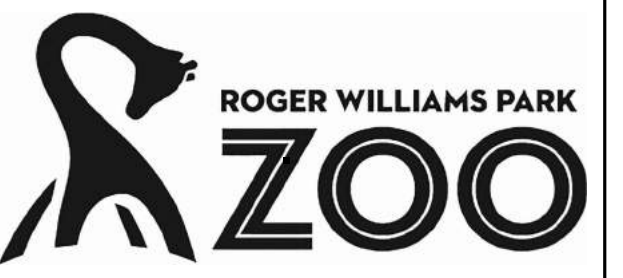
FURNITURE & EQUIPMENT SCHEDULE					
KEYNOTE	DESCRIPTION	FURNISHED BY	INSTALLED BY	FUNDED BY	COMMENTS
A-01	MOP HANGER & SHELF	GC	GC	BASE BID	
A-02	24" x 48" WIRE SHELVES	GC	GC	BASE BID	
A-03	UNDERCOUNTER REFRIGERATOR	GC	GC	BASE BID	
A-04	REFRIGERATOR / FREEZER	GC	GC	BASE BID	
A-05	OFFICE DESK	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-06	OFFICE CHAIR	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-07	GUEST CHAIR	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-08	LATERAL FILE CABINET	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-09	FILE CABINET	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-10	COPY MACHINE	OWNER	GC	BASE BID	
A-11	SYSTEM FURNITURE (WORK STATION)	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-12	OFFICE TABLE & CHAIRS	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-13	CONFERENCE ROOM TABLE & CHAIRS	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-15	PRE-K TABLES & CHAIRS	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-16	CLASSROOM TABLE & CHAIRS	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-17	NURSE COT	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-18	DISHWASHER	GC	GC	BASE BID	
A-19	TV & MOUNTING BRACKET	GC	GC	BASE BID	SEE ELECTRICAL DWGS
A-20	WHITE BOARD	GC	GC	BASE BID	
A-21	PRE-K SEATING	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-22	CARPET	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-23	BUFFET / CABINET	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER
A-24	MICROWAVE	GC	GC	BASE BID	
A-25	BREAKROOM TABLE & CHAIRS	GC	GC	ALLOWANCE	TO BE SELECTED BY OWNER



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Revision Schedule	
Revision Number	Revision Date

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April 18, 2024

SHEET TITLE
FURNITURE PLANS

DRAWN BY: SOS JOB NUMBER: 18050
CHECKED BY: MS DATE: 05/01/2024

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SHEET: OF:

Revision Schedule

Revision Number	Revision Date

ISSUED FOR BID
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SHEET TITLE

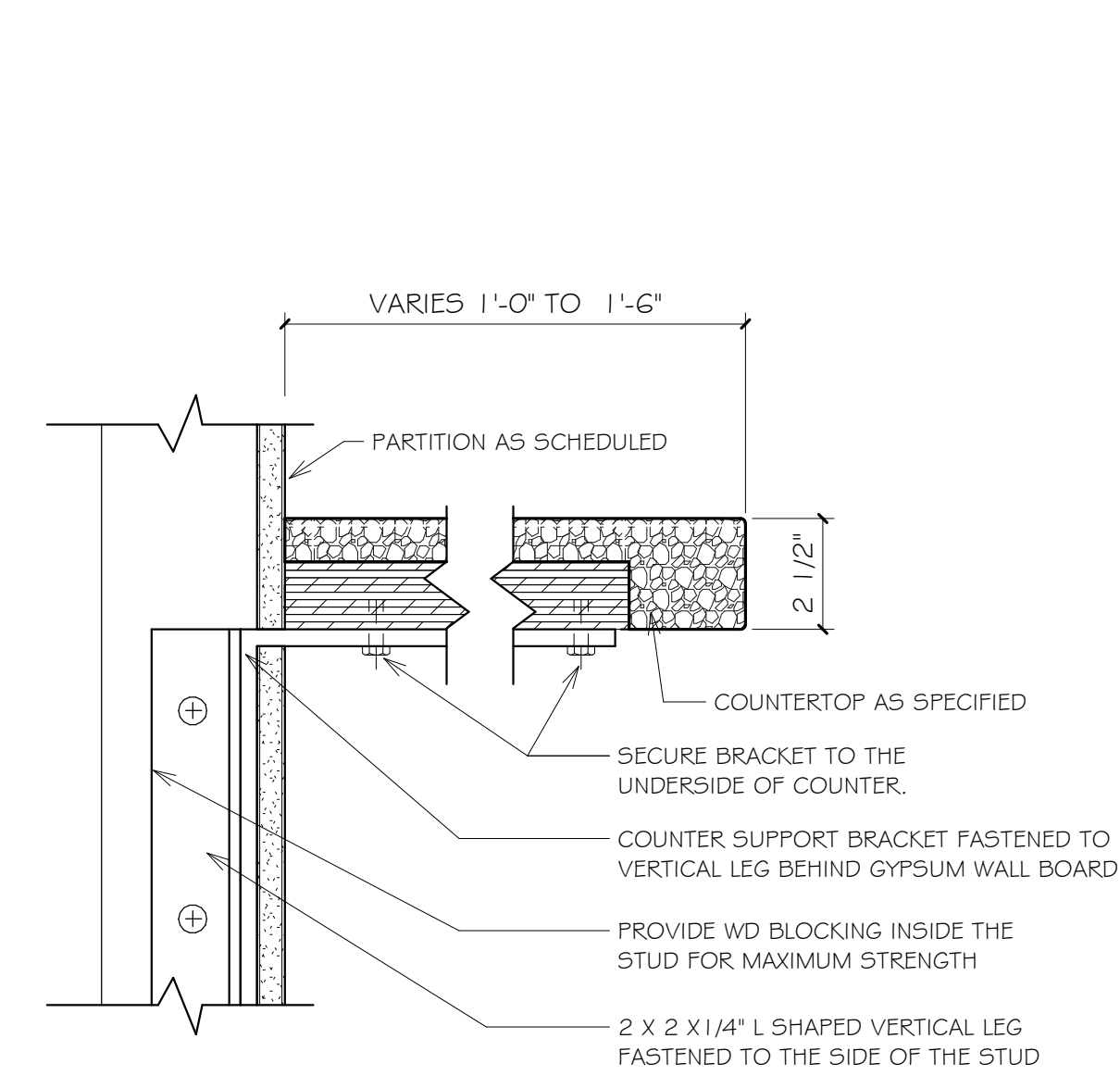
MILLWORK & CASEWORK SECTIONS & DETAILS

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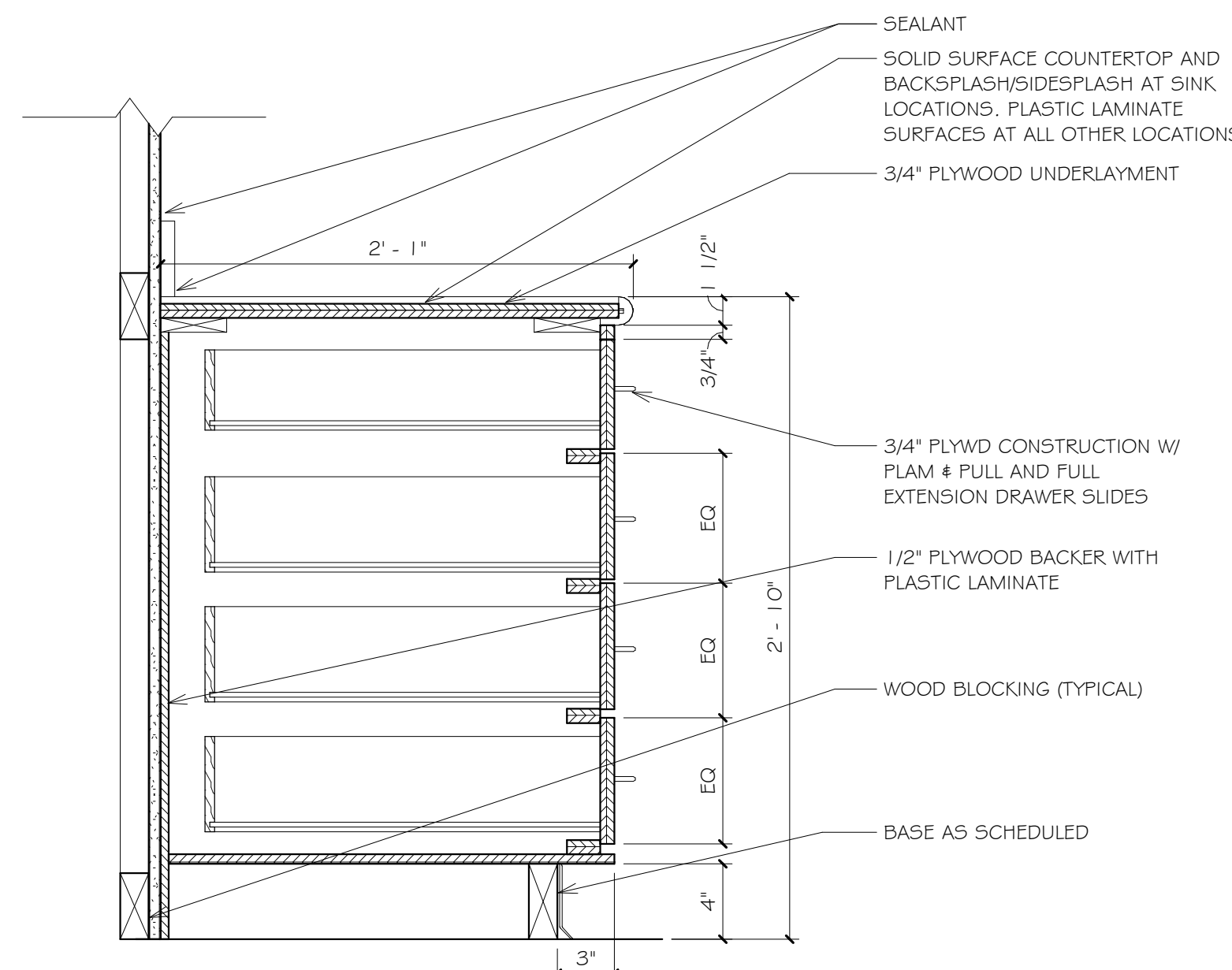
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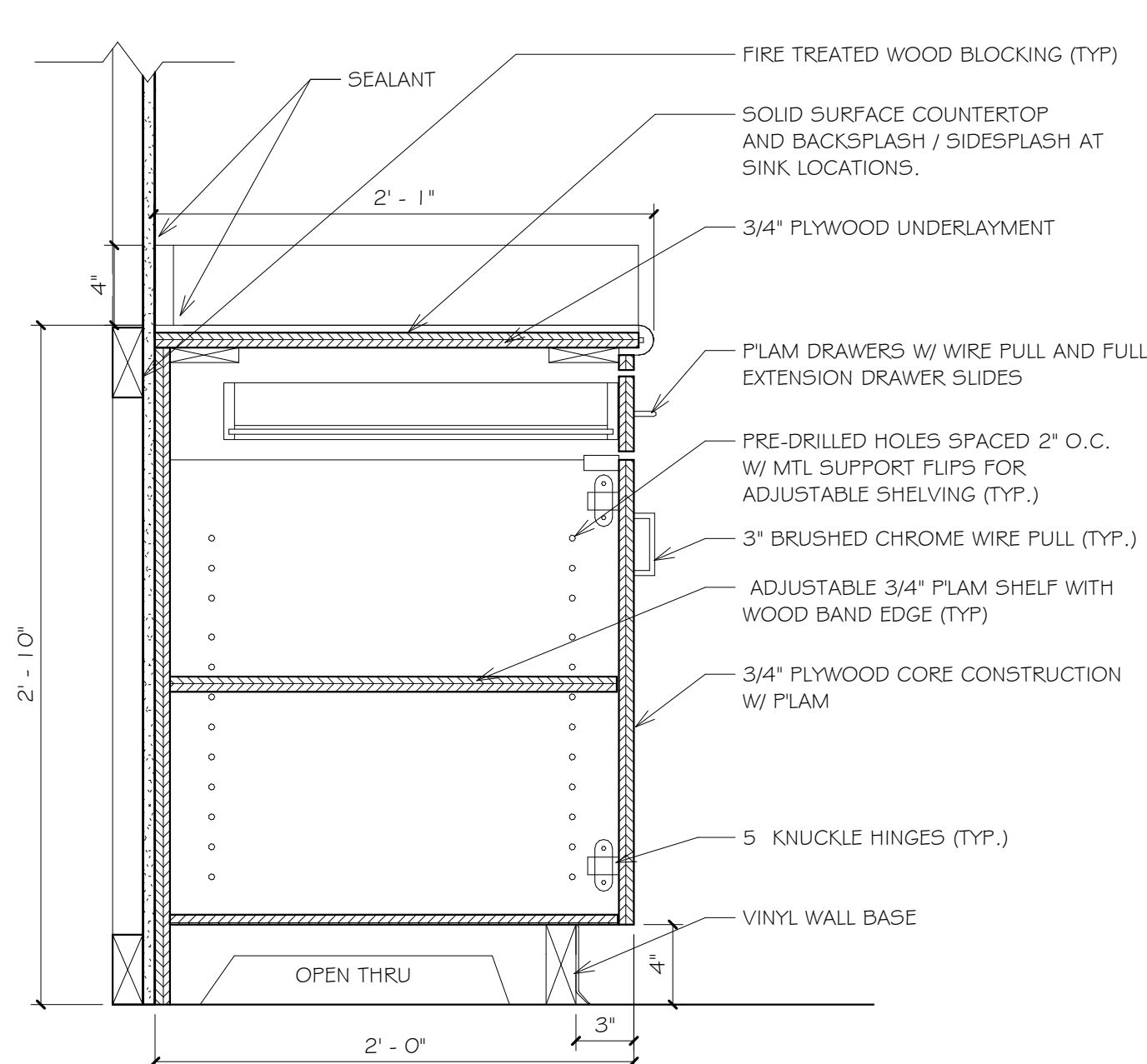
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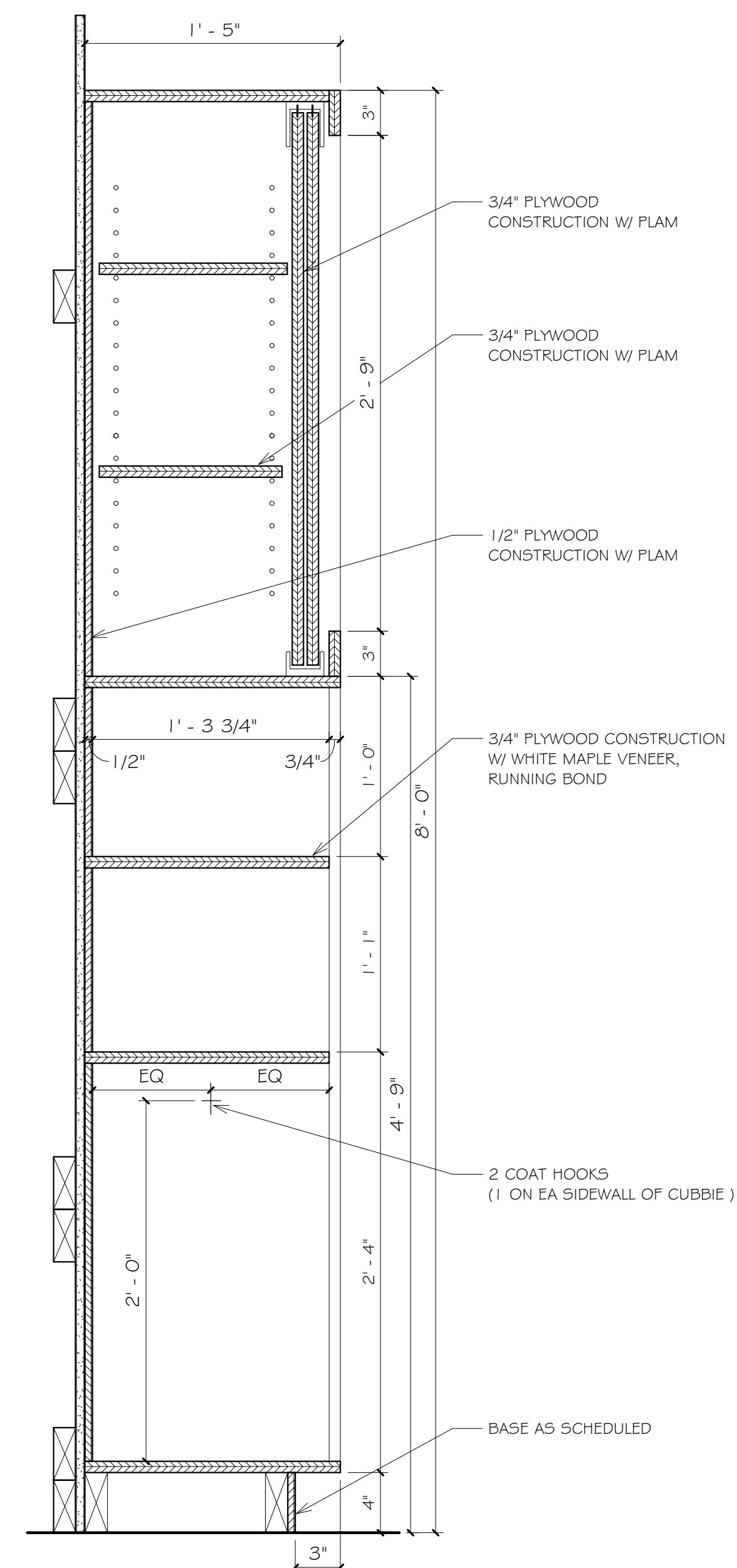
3 COUNTER SUPPORT CONCEALED BRACKET DETAIL
 3\"/>



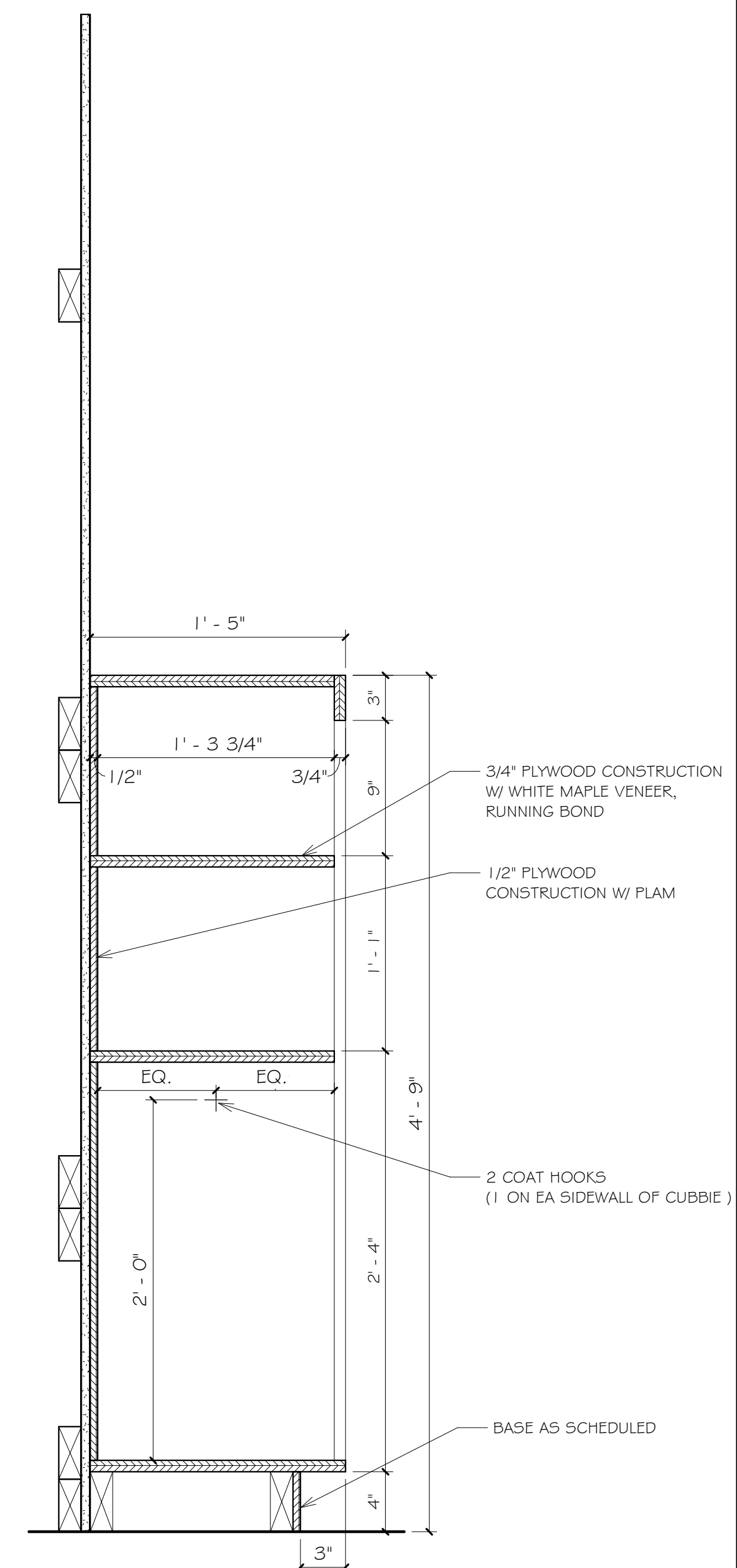
2 FOUR DRAWER BASE CABINET
 1 1/2\"/>



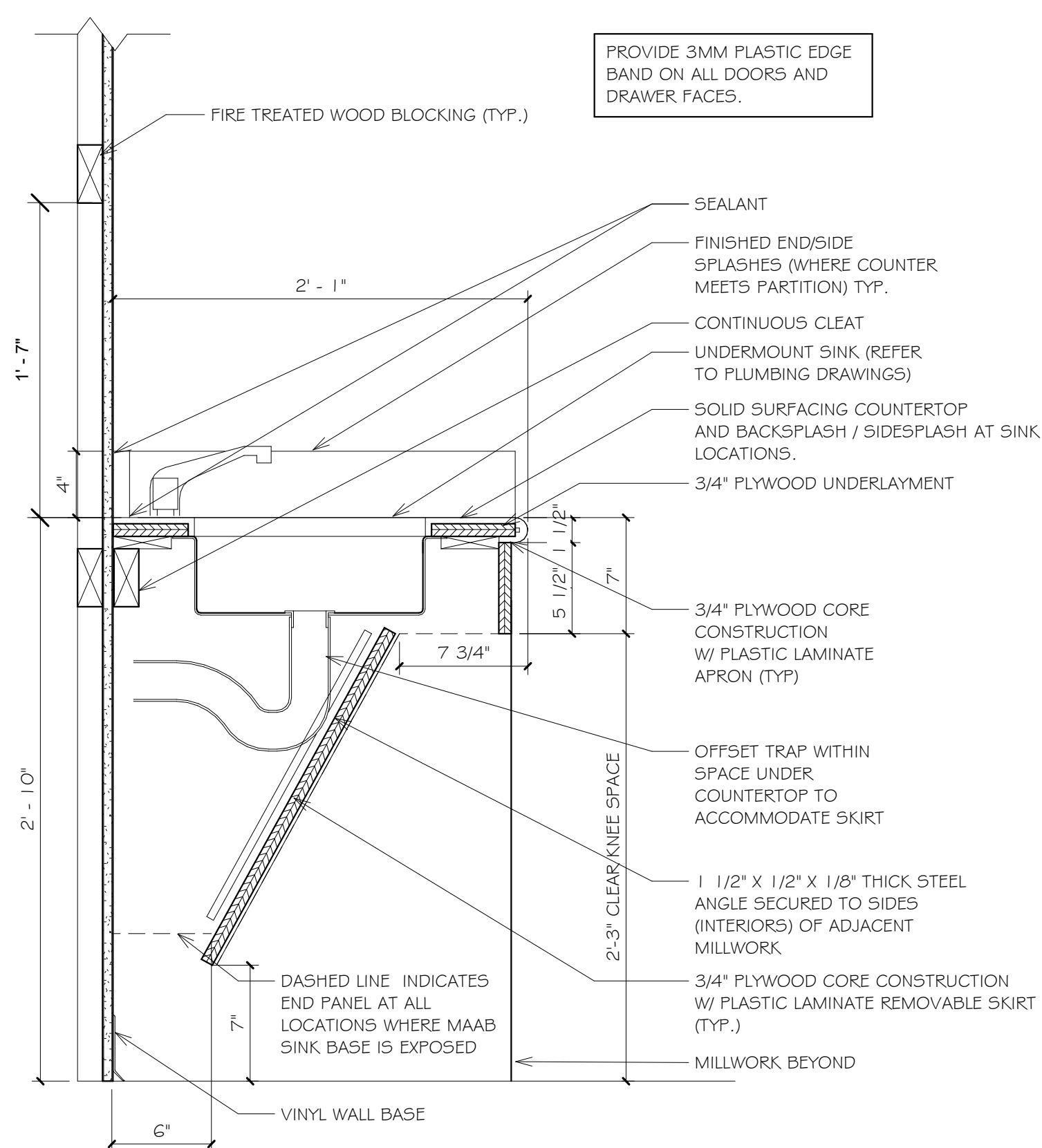
1 WALL & BASE CABINET W/ DRAWER & CUPBOARD
 1 1/2\"/>



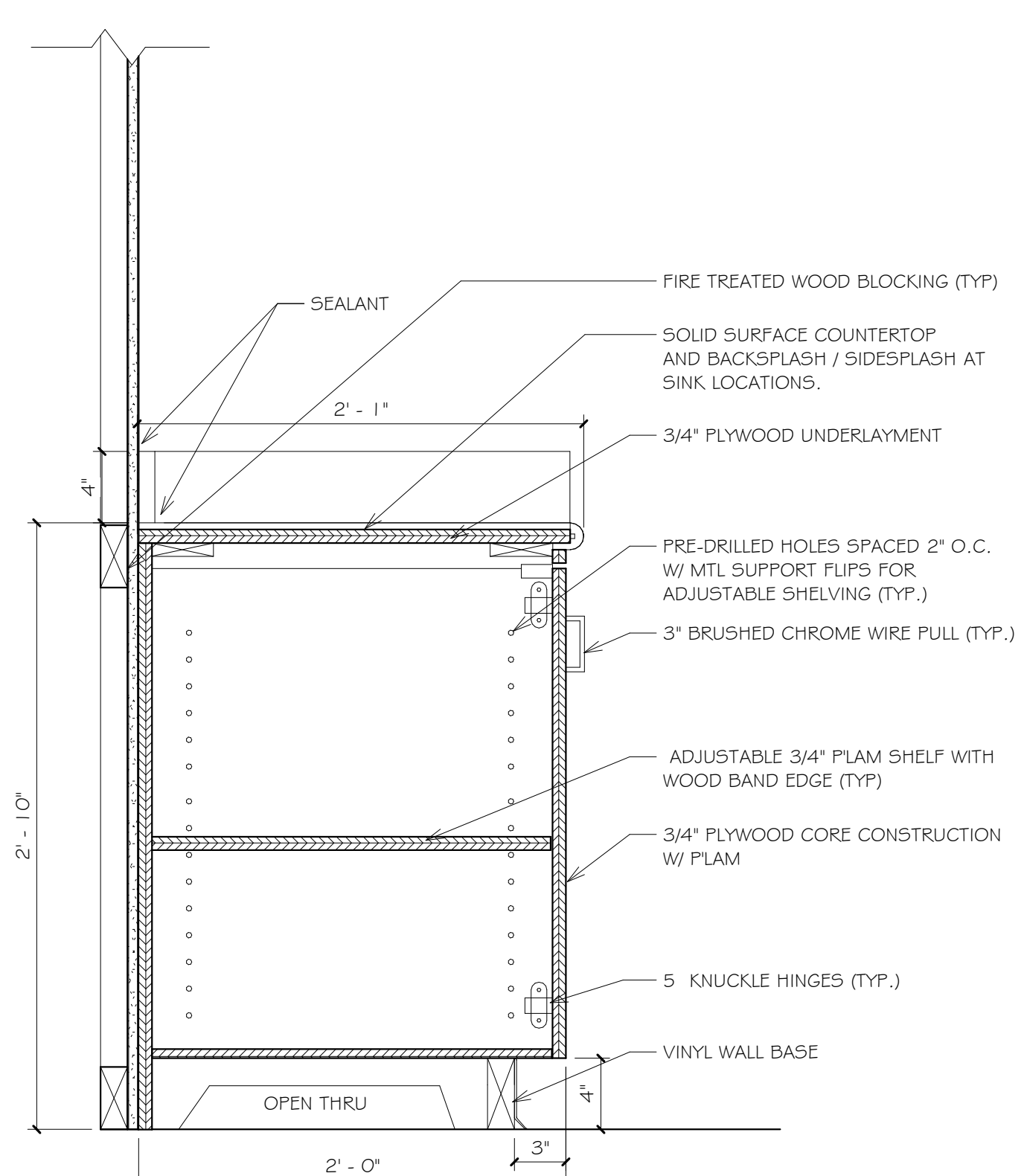
6 CUBBIES & STORAGE DETAIL
 1 1/2\"/>



7 CUBBIE DETAIL
 1 1/2\"/>



5 WALL & BASE CABINETS - ADA/MAAB
 1 1/2\"/>



4 WALL & BASE CABINET W/ CUPBOARD
 1 1/2\"/>

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Revision Schedule

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SHEET TITLE

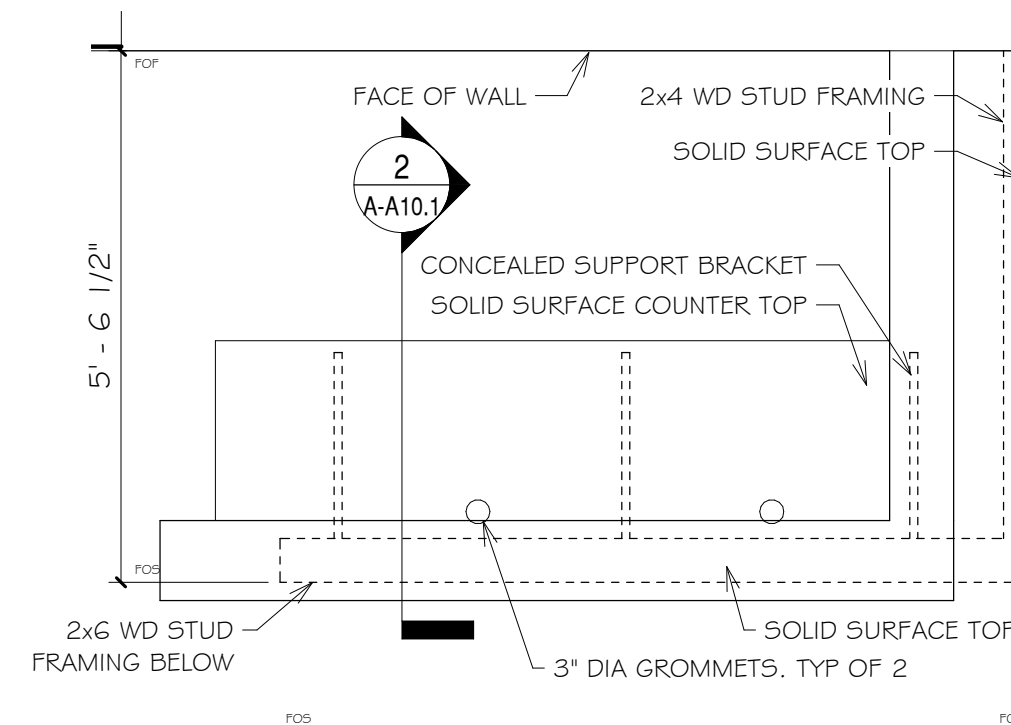
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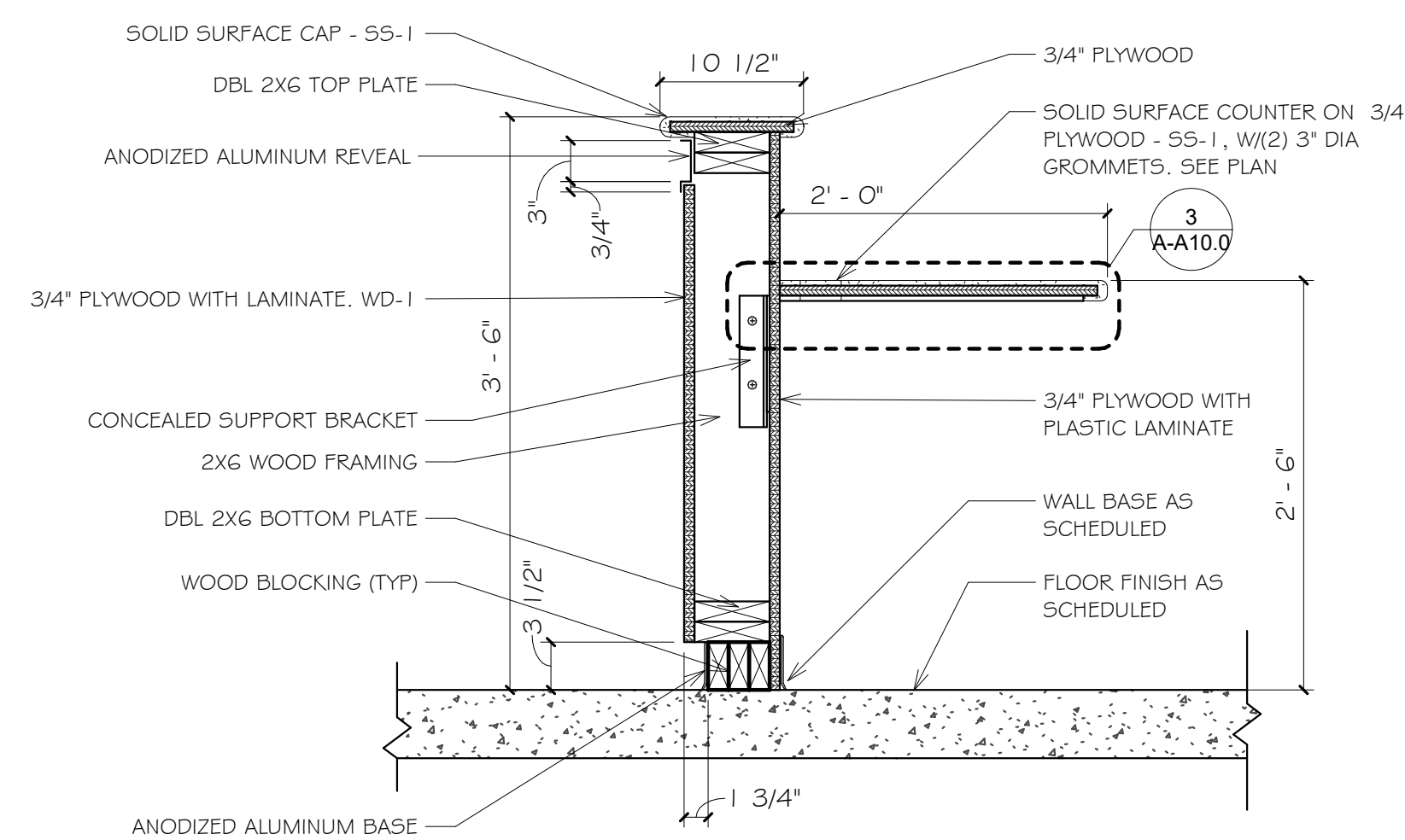
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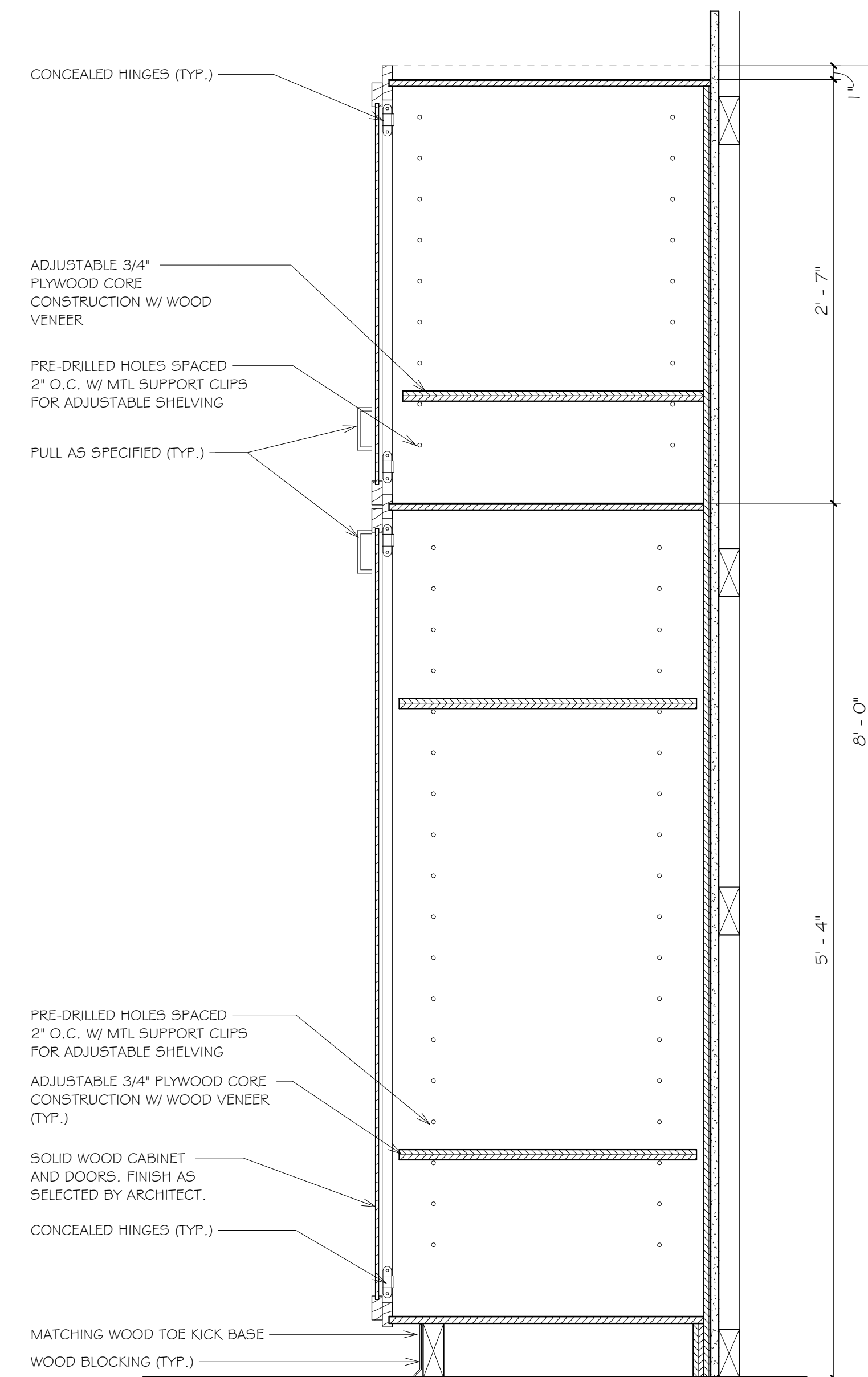
SHEET: OF:



3 PLAN - RECEPTION DESK
1/2" = 1'-0"



2 SECTION - RECEPTION DESK
1" = 1'-0"



1 CABINET SECTION - TALL
1 1/2" = 1'-0"

GENERAL NOTES EDUCATION CENTER

CODE INFORMATION AND DESIGN LOADS (EXCEPT AS NOTED):

BUILDING CODE: THE RHODE ISLAND STATE BUILDING CODE SBC-1 (2018 INTERNATIONAL BUILDING CODE W/ RI AMENDMENTS), PROVIDENCE, RI;

FOUNDATION CRITERIA:
 FROST DEPTH:3'-4"
 SAFE SOIL BEARING CAPACITY:3000 PSF
SNOW CRITERIA:
 GROUND SNOW LOAD (Pg): 30 PSF
 FLAT ROOF SNOW LOAD (P_f): 30 PSF
 SNOW LOAD IMPORTANCE FACTOR (I_s): 1.10
 SNOW EXPOSURE FACTOR (C_e): 1.0
 THERMAL FACTOR (C_t): 1.0
 ROOF DEAD LOAD: 22 PSF

SEISMIC FACTORS:
 GROUND ACCELERATIONS: S_e=.199g, S₁=.055g
 DESIGN ACCELERATIONS: S_{ds}=.319g, S_{d1}=.154g
 SEISMIC IMPORTANCE FACTOR (I_e): 1.25
 OCCUPANCY CATEGORY: III
 SEISMIC DESIGN CATEGORY: C
 SEISMIC SITE CLASS: E
 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

LATERAL FORCE RESISTING SYSTEM:
 LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD PANELS
 RATED FOR SHEAR RESISTANCE

RESPONSE MODIFICATION FACTOR: 6.50
 SEISMIC RESPONSE COEFF. C_s = 0.061

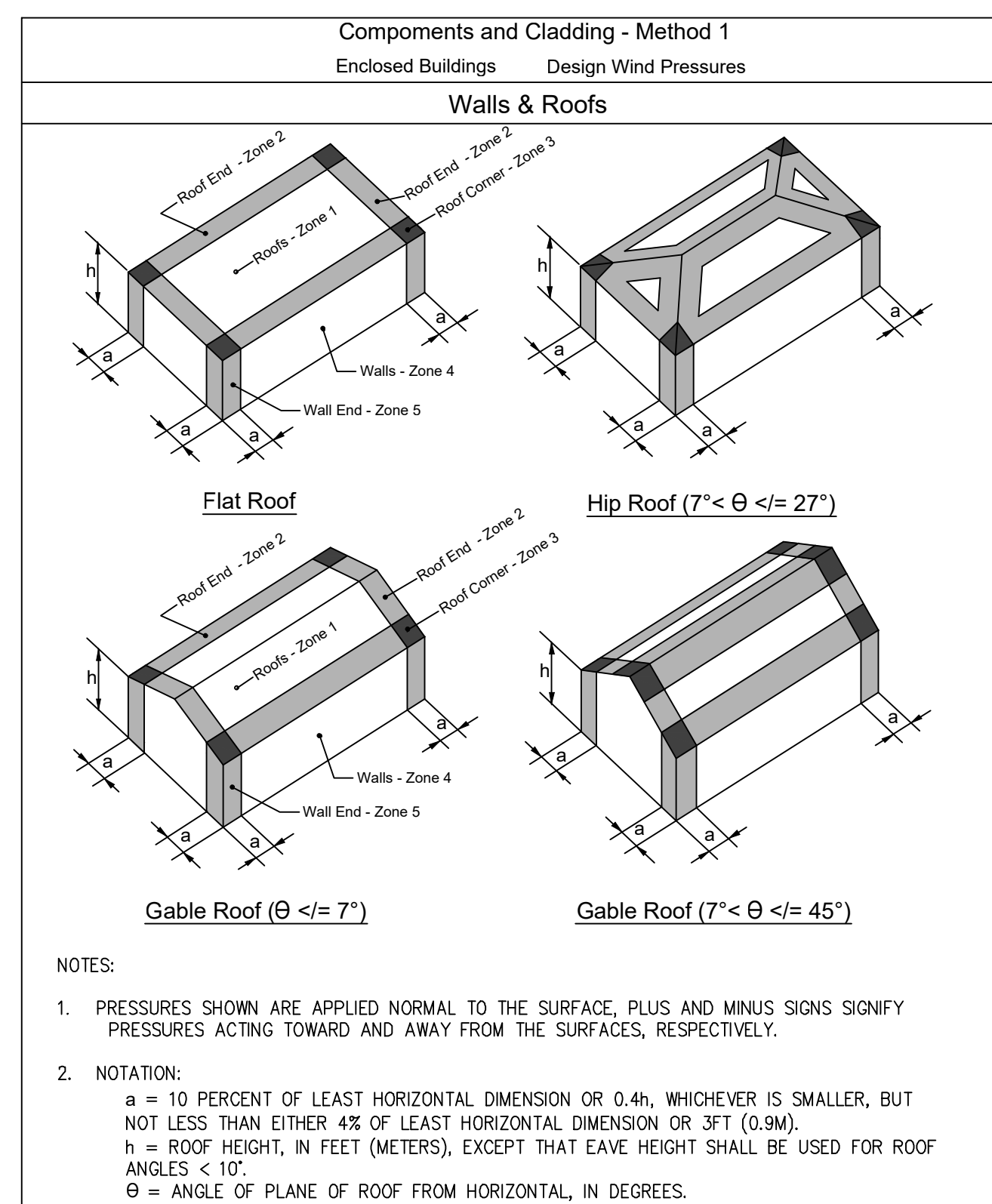
WIND CRITERIA:
 ULTIMATE WIND SPEED (V_{ult}): 134 mph
 NOMINAL WIND SPEED (V₅₀): 104 mph
 WIND EXPOSURE FACTOR: B
 INTERNAL PRESSURE COEFF. GCPI: ±0.18
 (ENCLOSED BLDG.)

LOCATION	10sf	20sf	50sf	100sf	500sf
ZONE 1	-27.57 PSF	-27.57 PSF	-23.68 PSF	-20.74 PSF	-16.08 PSF
ZONE 2e	-27.57 PSF	-27.57 PSF	-23.68 PSF	-20.74 PSF	-16.08 PSF
ZONE 2r	-43.98 PSF	-38.52 PSF	-31.30 PSF	-25.84 PSF	-22.65 PSF
ZONE 2n	-43.98 PSF	-38.52 PSF	-31.30 PSF	-25.84 PSF	-22.65 PSF
ZONE 3r	-51.32 PSF	-43.21 PSF	-32.49 PSF	-32.49 PSF	-32.49 PSF
ZONE 3e	-43.98 PSF	-38.52 PSF	-31.30 PSF	-25.84 PSF	-22.65 PSF

LOCATION	10sf	20sf	50sf	100sf	500sf
ZONE 1	-35.77 PSF	-35.77 PSF	-34.66 PSF	-33.82 PSF	-32.49 PSF
ZONE 2e	-35.77 PSF	-35.77 PSF	-34.66 PSF	-33.82 PSF	-32.49 PSF
ZONE 2r	-52.18 PSF	-48.82 PSF	-44.38 PSF	-41.02 PSF	-39.06 PSF
ZONE 2n	-52.18 PSF	-48.82 PSF	-44.38 PSF	-41.02 PSF	-39.06 PSF
ZONE 3r	-62.03 PSF	-54.05 PSF	-43.50 PSF	-35.52 PSF	-30.85 PSF
ZONE 3e	-65.79 PSF	-54.99 PSF	-40.70 PSF	-40.70 PSF	-40.70 PSF

LOCATION	10sf	20sf	50sf	100sf	500sf
ZONE 4	-21.01 PSF	-20.13 PSF	-18.98 PSF	-18.11 PSF	-16.08 PSF
ZONE 5	-25.93 PSF	-24.18 PSF	-21.88 PSF	-20.13 PSF	-16.08 PSF

LOCATION	10sf	20sf	50sf	100sf	500sf
ZONE 1	-24.29 PSF	-23.30 PSF	-21.99 PSF	-21.01 PSF	-21.01 PSF
ZONE 2	-29.21 PSF	-23.30 PSF	-21.99 PSF	-21.01 PSF	-21.01 PSF
ZONE 3	-50.54 PSF	-46.10 PSF	-40.22 PSF	-35.77 PSF	-35.77 PSF



GENERAL NOTES

FOUNDATION NOTES:

- ALL SOIL CONTAINING ORGANIC OR UNSUITABLE BEARING MATERIAL SHALL BE REMOVED FROM THE BUILDING FOOTPRINT.
- ALL SOIL SUPPORTED FOOTINGS SHALL BE FOUNDED UPON COMPACTED NATURAL SUBGRADE OR COMPACTED BANK RUN GRAVEL FILL WITH A SAFE BEARING CAPACITY OF NOT LESS THAN 3000 PSF. COORDINATE SITE SPECIFIC SUBGRADE PREPARATION REQUIREMENTS WITH GEOTECHNICAL REPORT.
- ROCK SHALL BE EXCAVATED A MINIMUM OF 6" BELOW BOTTOM OF FOOTING ELEVATION AND COVERED WITH A LAYER OF COMPACTED STRUCTURAL FILL.
- A MODIFIED PROCTOR TEST SHALL BE PERFORMED BY A SOILS TESTING LAB ON EACH TYPE OF SOIL TO BE COMPACTED.
- SOIL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY PER ASTM D1557 IN LIFTS NOT TO EXCEED 6" LOOSE DEPTH.
- FIELD DENSITY TESTS SHALL BE PERFORMED BY AN INDEPENDENT SOILS TESTING LAB TO VERIFY COMPACTION. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT.
- BACKFILL SYMMETRICALLY AGAINST ALL FOUNDATION WALLS IN INCREMENTS NOT TO EXCEED 2 FEET MAXIMUM DIFFERENTIAL.
- SEE PLUMBING AND ELECTRICAL DRAWINGS FOR UNDER FLOOR SYSTEMS AND SPECIAL GRANULAR FILL MATERIAL REQUIREMENTS.
- NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER OR ICE.
- ALL SLABS-ON-GRADE SHALL BE PLACED ON VAPOR BARRIER OVER A MIN. 9" COMPACTED STRUCTURAL FILL. REFER TO ARCHITECTURAL DWGS. FOR VAPOR BARRIER THICKNESS. COORDINATE ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS WITH GEOTECHNICAL REPORT.

CONCRETE NOTES:

- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI AT 28 DAYS (U.N.O.)
- ALL CONCRETE WALLS, FOOTINGS AND CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR ENTRAINING ADMIXTURE. AIR CONTENT SHALL BE 4 1/2% TO 7%.
- ALL CONCRETE SHALL CONTAIN AN APPROVED WATER-REDUCING ADMIXTURE.
- A SET OF FOUR (4) CONCRETE TEST CYLINDERS SHALL BE TAKEN BY AN INDEPENDENT CONCRETE TESTING LAB ON EACH DAY WHEN CONCRETE PLACEMENT EXCEEDS 5 CUBIC YARDS. ONE CYLINDER SHALL BE BROKEN AT 7 DAYS, TWO AT 28 DAYS, AND ONE AT 56 DAYS. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT. CYLINDERS ARE REQUIRED FOR EVERY 50 CUBIC YARDS POURED PER DAY.
- NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- A MIX DESIGN AND ACI 214 STRENGTH TEST EVALUATION SHALL BE SUBMITTED FOR APPROVAL FOR EACH TYPE OF CONCRETE.
- REINFORCING BARS SHALL BE ASTM A615 GRADE 60 (U.N.O.).
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION, SHOWING REINFORCING DETAILS, STEEL SIZES, SPACING AND PLACEMENT OF REINFORCING.
- ALL REINFORCING BAR SPLICES SHALL CONFORM TO REQUIREMENTS OF ACI 318-14, BUT IN NO CASE SHALL THEY BE LESS THAN 2'-0".
- DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCING.
- SHRINKAGE CONTROL JOINTS IN ALL WALLS SHALL BE NO FURTHER APART THAN 60 FEET IN ANY DIRECTION. CONSTRUCTION CONTROL JOINTS IN ALL WALLS SHALL BE NO FURTHER APART THAN 120 FEET IN ANY DIRECTION. SEE PLAN FOR LOCATION OF SLAB CONSTRUCTION AND/OR SHRINKAGE JOINTS.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064, F_y = 60 KSI.
- ALL WELDED WIRE FABRIC SHALL BE LAPPED ONE (1) FULL MESH PANEL AT SIDES AND ENDS AND BE SECURELY WIRED TOGETHER.
- SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS AND CUT OUTS.
- COORDINATE ALL FOUNDATION PENETRATIONS WITH ARCHITECT, PLUMBING, MECHANICAL, ELECTRICAL CONTRACTORS AND LOCAL AGENCIES.

MASONRY NOTES:

- MASONRY WALLS ARE DESIGNED IN ACCORDANCE WITH NCM "SPECIFICATIONS FOR THE CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY," AND TMS BUILDING CODE FOR MASONRY STRUCTURES TMS 402-2016.
- MASONRY SHALL BE HOLLOW CONCRETE UNITS CONFORMING TO ASTM C90, WITH AN AVERAGE NET AREA COMPRESSIVE STRENGTH OF 2000 PSI.
- MORTAR SHALL CONFORM TO ASTM C270, TYPE S (LIME), AND BE PROPORTIONED TO YIELD A COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS BY THE PROPERTY METHOD. COMPRESSIVE STRENGTH RESULTS OF FIELD SAMPLED MORTAR IS TO BE USED TO EVALUATE MORTAR CONSISTENCY ONLY AND IS NOT A BASIS FOR REJECTING MORTAR QUALITY.
- GROUT FOR REINFORCED MASONRY SHALL CONFORM TO ASTM C476, TYPE PL, AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS WHEN FIELD TESTED IN ACCORDANCE WITH ASTM C1019.
- MASONRY WALLS CONSTRUCTED SHALL YIELD A NET AREA COMPRESSIVE STRENGTH OF F_m = 2200 PSI.
- ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60 (U.N.O.), PROVIDE TIES FOR ALL VERTICAL BARS, LOCATING BARS WITHIN A TOLERANCE OF ±1/2 INCH OF THE CENTERLINE.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION, SHOWING REINFORCING DETAILS, STEEL SIZES, SPACING AND PLACEMENT OF REINFORCING. LIFT HEIGHTS MUST BE CLEARLY LABELED ON SHOP DRAWING SECTIONS/ELEVATIONS, AND MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL FOR ENGINEERING REVIEW.
- PRIOR TO GROUTING CELLS, BARS AND CELLS SHALL BE INSPECTED BY THE TESTING AGENCY/ENGINEER. A CLEANOUT HOLE IS REQUIRED AT BASE OF VERTICALLY REINFORCED CELLS DURING HIGH-LIFT GROUTING PROCEDURES. THE DESIGN OF REINFORCED MASONRY CONSTRUCTION IS BASED ON ALLOWABLE STRESSES PREDETERMINED WITH INSPECTION PROVISIONS REQUIRING QUALIFIED MASONRY INSPECTION TO TAKE PLACE ON A CONTINUOUS BASIS WHENEVER MASONRY IS BEING PLACED.
- REINFORCED MASONRY WALLS SHALL HAVE BOND BEAMS AT EACH FLOOR AND TOP OF WALL AND ALSO SPACED AT APPROXIMATELY 8'-0". BOND BEAMS SHALL BE REINFORCED WITH (2) #5 HORIZONTAL BARS. BOND BEAM REINFORCING SHALL BE EXTENDED INTO AND BE CONTINUOUS WITH ALL INTERSECTING BOND BEAMS. MASONRY OPENINGS GREATER THAN 16" WIDE REQUIRE APPROVED LINTELS OR AS INDICATED ON THE DRAWINGS. ADDITIONAL HORIZONTAL JOINT REINFORCING SHALL BE 9 GAGE GALVANIZED LADDER TYPE AT 16" O.C.
- MASONRY BLOCK CELLS CONTAINING VERTICAL REINFORCING, MASONRY LIFT BLOCKS, AND MASONRY BOND BEAMS CONTAINING HORIZONTAL REINFORCING SHALL BE GROUTED SOLID. FILLING CELLS WITH MORTAR IS UNACCEPTABLE.
- PROVIDE #5 VERTICAL REINFORCING BARS IN (2) CELLS ADJACENT TO WINDOWS AND DOOR OPENINGS AND AT ALL CORNERS AND DISCONTINUOUS EDGES, UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, ALL MASONRY WALLS SHALL BE REINFORCED VERTICALLY WITH MINIMUM #5 VERTICAL BARS AT 32" O.C.
- PLACEMENT OF PIPE OR CONDUIT WITHIN REINFORCED CELLS IS PROHIBITED.
- STARTER COURSES OF ALL CMU WALLS SHALL BE GROUTED SOLID.
- STANDARD LOW LIFT AND HIGH LIFT GROUTING PROCEDURES AS OUTLINED IN TMS 402-2016 SHALL BE STRICTLY ADHERED TO.
- WHERE THE FOLLOWING CONDITIONS ARE MET, PLACE GROUT IN LIFTS NOT EXCEEDING 12 FT 8 IN.
 - THE MASONRY HAS CURED FOR AT LEAST 4 HOURS.
 - THE GROUT SLUMP IS MAINTAINED BETWEEN 10 INCHES TO 11 INCHES
 - NO INTERMEDIATE REINFORCED BOND BEAMS ARE PLACED BETWEEN THE TOP AND BOTTOM OF THE POUR HEIGHT.
- WHEN THE CONDITIONS OF 16a AND 16b ARE MET BUT THERE ARE INTERMEDIATE BOND BEAMS WITHIN THE GROUT POUR, LIMIT THE GROUT LIFT HEIGHT TO THE BOTTOM OF THE LOWEST BOND BEAM THAT IS MORE THAN 5FT 4 INCHES ABOVE THE BOTTOM OF THE LIFT, BUT DO NOT EXCEED A GROUT LIFT OF 12 FT 8 INCHES
- WHEN THE CONDITIONS OF 16a OR 16b ARE NOT MET, PLACE GROUT IN LIFTS NOT EXCEEDING 5 FEET 4 INCHES.

MASONRY NOTES (CONT.):

- CONSOLIDATE GROUT POURS EXCEEDING 12 INCHES IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
- PROVIDE CLEANOUTS IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR WHEN THE GROUT POUR HEIGHT EXCEEDS 5 FEET 4 INCHES. CONSTRUCT CLEANOUTS SO THAT THE SPACE TO BE GROUTED CAN BE CLEANED AND INSPECTED. CONSTRUCT CLEANOUTS WITH AN OPENING OF SUFFICIENT SIZE TO PERMIT REMOVAL OF DEBRIS. THE MINIMUM OPENING SHALL BE 3 INCHES. AFTER CLEANING, CLOSE CLEANOUTS WITH CLOSURES BRACED TO RESIST GROUT PRESSURE.
- WHEN GROUTING, FORM GROUT KEYS BETWEEN GROUT LIFTS WHEN THE FIRST LIFT IS PERMITTED TO SET PRIOR TO PLACEMENT OF THE SUBSEQUENT LIFT.
 - FORM THE GROUT KEY BY TERMINATING THE GROUT A MINIMUM OF 1 1/2 INCH BELOW A MORTAR JOINT.
 - DO NOT FORM GROUT KEYS WITHIN BOND BEAMS.
 - AT BOND BEAMS OR LINTELS LAID WITH CLOSED BOTTOM UNITS, TERMINATE THE GROUT POUR AT THE BOTTOM OF THE BOND BEAM OR LINTEL WITHOUT FORMING A KEY.
- THE MASONRY CONTRACTOR SHALL CLEAN EXPOSED MASONRY SURFACES OF ALL STAINS, EFFLORESCENCE, MORTAR OR GROUT DROPPINGS, AND DEBRIS.
- COVER TOP OF UNFINISHED MASONRY WORK TO PROTECT IT FROM THE WEATHER.
- COLD WEATHER CONSTRUCTION PRACTICES SHALL BE FOLLOWED WHEN AMBIENT AIR TEMPERATURE FALLS BELOW 40 DEGREES F OR THE TEMPERATURE OF MASONRY UNITS IS BELOW 40 DEGREES F. COLD WEATHER PRACTICE SHALL BE IN CONFORMANCE WITH THE SPECIFICATION FOR MASONRY STRUCTURES TMS 602-2016.
- HOT WEATHER CONSTRUCTION PRACTICES SHALL BE FOLLOWED WHEN AMBIENT AIR TEMPERATURE EXCEEDS 100 DEGREES F OR 90 DEGREES F WITH A WIND VELOCITY GREATER THAN 8 MPH. HOT WEATHER PRACTICE SHALL BE IN CONFORMANCE WITH THE SPECIFICATION FOR MASONRY STRUCTURES TMS 602-2016.

PRE-ENGINEERED WOOD ROOF TRUSSES:

- SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR WOOD FRAMING DETAILS.
- ALL FASTENING SHALL COMPLY WITH TABLE 2304.10.1 FASTENING SCHEDULE OF THE RHODE ISLAND STATE BUILDING CODE.
- ALL ROOF TRUSSES AND OVERHANGING WOOD MEMBERS SHALL BE HELD DOWN WITH HURRICANE ANCHORS. REFER TO DRAWINGS FOR TYPE AND LOCATIONS.
- WOOD TRUSSES SHALL BE DESIGNED PER THE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES", PUBLISHED BY THE TRUSS PLATE INSTITUTE.
- WOOD TRUSS FABRICATOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION, SHOP DRAWINGS BEARING SEAL AND SIGNATURE OF THE DESIGN PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF RHODE ISLAND. SHOP DRAWINGS SHALL INCLUDE BUT ARE NOT LIMITED TO: TRUSS LAYOUT PLAN; TRUSS DETAILS SHOWING CONFIGURATION, DIMENSIONS, LOADS, MEMBER SIZES AND GRADES, MEMBER FORCES, CONNECTION PLATE SIZES, AND PERMANENT BRACING REQUIRED; TRUSS CONNECTION HANGERS FOR FLUSH FRAMING.
- WOOD TRUSS ERECTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL TEMPORARY ERECTION BRACING AND PERMANENT BRACING.
- SEE GENERAL NOTES - DESIGN LOADS FOR TRUSS DESIGN LOADS REQUIREMENTS. SEE ROOF DIAGRAM FOR ADDITIONAL LOADS ON ROOF CAUSED BY SNOW.

WOOD SHEATHING AND SUBFLOOR FOR WOOD FRAMING NOTES:

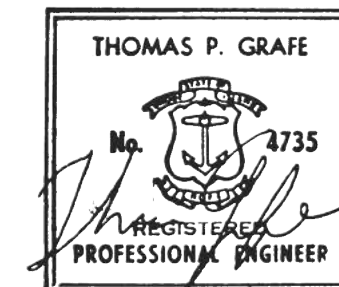
- ROOF SHEATHING SHALL BE MINIMUM 3/4" APA RATED SHEATHING, EXTERIOR GRADE. SHEATHING SHALL BE FASTENED WITH 10d NAILS AT NOT MORE THAN 6" O.C. ON ALL SUPPORTED PANEL EDGES. "H" CLIPS SHALL BE USED AT ALL UNSUPPORTED PANEL EDGES WHEN FRAMING IS SPACED GREATER THAN 16" ON CENTER. NAIL INTERMEDIATE MEMBERS AT 12" O.C.
- EXTERIOR WALL SHEATHING SHALL BE 2 1/2" THICK HUBER ZIPWALL SYSTEM, R-12. SHEATHING SHALL BE FASTENED WITH 10d NAILS AT NOT MORE THAN 6" O.C. ON ALL PANEL EDGES. ALL HORIZONTAL PANEL EDGES MUST BE BLOCKED AND NAILED.
- SUB-FLOORING SHALL BE 3/4" TONGUE & GROOVE APA RATED SHEATHING, EXPOSURE 1, 48/24 SPAN RATING, UNLESS NOTED OTHERWISE. FLOOR SHEATHING SHALL BE GLUED AND NAILED TO FRAMING WITH 8d NAILS @ 6" O.C. AT EDGES OF PANELS. NAIL AT 12" O.C. IN FIELD.

STRUCTURAL LUMBER, ENGINEERED LUMBER:

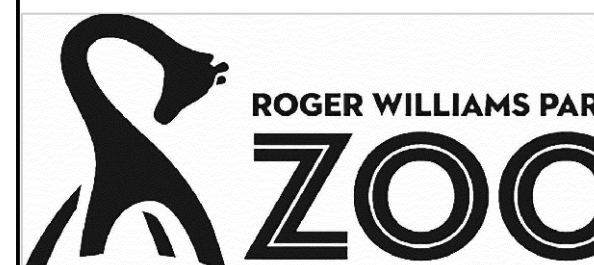
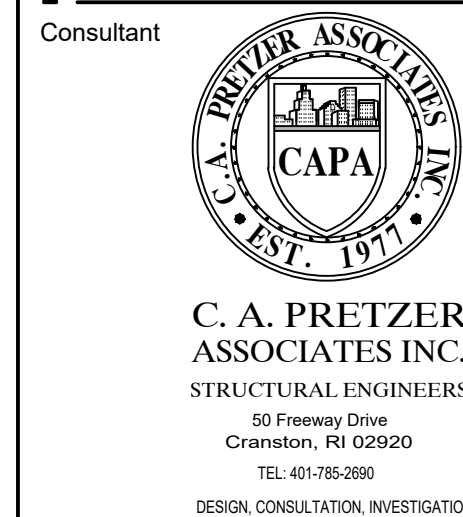
- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "TIMBER CONSTRUCTION STANDARDS" OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" OF THE NATIONAL FLOOR PRODUCTS ASSOCIATION.
- THE MINIMUM GRADES AND DESIGN VALUES REQUIRED FOR STRUCTURAL LUMBER SHALL BE: STUDS: SPRUCE-PINE-FIR CONSTRUCTION GRADE F_c=1400 PSI, E=1,300,000 PSI
JOISTS, RAFTERS, & HEADERS: SPRUCE-PINE-FIR NO. 1/2 F_b=875 PSI E=1,400,000 PSI
- ALL EXTERIOR WALL STUDS SHALL BE 2x8 @ 16" O.C. ALL INTERIOR BEARING WALL STUDS SHALL BE 2x6 @ 16" O.C., UNLESS NOTED OTHERWISE ON PLANS.
- ALL MULTIPLE MEMBER BEAMS AND HEADERS SHALL BE SUPPORTED ON NOT LESS THAN AN EQUAL NUMBER OF STUDS AT EACH END, UNLESS NOTED OTHERWISE. ALL HEADERS IN 2x8 EXTERIOR STUD WALLS SHALL BE MIN. OF (4) 2x8 UNLESS NOTED OTHERWISE.
- WOOD COLUMNS MADE WITH THREE OR MORE WOOD STUDS SHALL BE NAILED TOGETHER WITH 16d NAILS. NAIL SPACING SHALL BE IN (2) ROWS, SPACED 8" O.C. FROM BOTH SIDES STAGGERED 4" APART.
- ALL MULTIPLE 2x STUDS OR POSTS THAT ARE SUPPORTING ENDS OF HEADERS OR BEAMS MUST EXTEND DOWN TO TOP FOUNDATION WALL, FOOTING, OR INTERIOR WOOD BEAM. PROVIDE SOLID BLOCKING WITHIN FLOOR FRAMING BETWEEN POSTS FROM ABOVE AND POSTS BELOW AS REQUIRED. BLOCK ALL POSTS BEARING AT 1ST FLOOR LEVEL SOLID TO TOP OF FOUNDATION WALL OR BEAM WITHIN FLOOR FRAMING.
- ALL EXTERIOR OPENINGS SHALL HAVE NOT LESS THAN (2) JACK STUDS AND TWO FULL HEIGHT STUDS AT EACH SIDE OF THE OPENING. ALL INTERIOR BEARING WALL OPENINGS SHALL HAVE NOT LESS THAN (2) JACK STUDS AND (1) FULL HEIGHT STUD AT EACH SIDE OF THE OPENING UNLESS NOTED OTHERWISE.
- ALL ROOF RAFTERS SHALL HAVE A SIMPSON HURRICANE CLIP FOR CONNECTIONS AT EACH BEARING LOCATION, REFER TO DRAWING FOR TYPE AND LOCATION.
- FLUSH FRAMING SHALL BE SUPPORTED BY JOIST HANGERS DESIGNED FOR THE FULL CAPACITY OF THE SUPPORTED MEMBER, REFER TO DRAWING FOR TYPE AND LOCATION.
- DOUBLE FLOOR JOISTS UNDER ALL PARTITIONS RUNNING PARALLEL TO SPAN.
- ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED WITH PRESERVATIVE.
- ENGINEERED LUMBER SUPPLIER SHALL SUBMIT TO THE ENGINEER OF RECORD FOR APPROVAL, SHOP DRAWINGS FOR ALL TJI'S, MICROLLAMS, AND PARALLAMS. SHOP DRAWINGS SHALL INCLUDE BUT ARE NOT LIMITED TO: FRAMING LAYOUT PLAN, MEMBER SIZES, NAILING PATTERNS FOR MULTIPLE MEMBERS, BEARING LENGTHS, CONNECTION HANGERS, BLOCKING, BRIDGING, AND SQUASH BLOCKS.
 - ALL LVL PENETRATIONS SHALL BE MADE IN THE FACTORY. REFER TO TYPICAL ALLOWABLE BEAM PENETRATION DETAIL.
 - CONTRACTOR AND TRUSS FABRICATOR SHALL COORDINATE ALL DUCTWORK AND PIPE PENETRATIONS THROUGH LVL JOISTS AND BEAMS. CONTRACTOR SHALL REVIEW AND APPROVE FINAL LVL SHOP DRAWINGS PRIOR TO SUBMITTING TO THE ARCHITECT/ENGINEER FOR REVIEW.
- SEE SHEETS A-54.0, AND A-54.1 FOR SHEAR WALL INFORMATION.
- TJI'S, LVL (MICROLLAM) AND PSL (PARALLAM) SHALL BE ILEVEL BY WEYERHAEUSER, OR APPROVED EQUAL.

STRUCTURAL LUMBER, ENGINEERED LUMBER (CONT.):

- LVL (MICROLLAM) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FB = 2600 PSI, FT = 1895 PSI, FC (PERP.) = 750 PSI, FC (PARR.) = 2510 PSI, FV = 285 PSI, E = 2,000,000 PSI
- LVL'S SHALL BE FREE OF FINGER JOINTS, SCARF JOINTS OR MECHANICAL CONNECTIONS FOR THE FULL LENGTH OF THE MEMBER.
- PSL (PARALLAM) BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FB = 2900 PSI, FT = 2300 PSI, FC (PERP.) = 625 PSI, FC (PARR.) = 2900 PSI, FV = 290 PSI, E = 2,000,000 PSI
- PSL (PARALLAM) POSTS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FB = 2400 PSI, FT = 1995 PSI, FC (PERP.) = 545 PSI, FC (PARR.) = 2500 PSI, FV = 190 PSI, E = 1,800,000 PSI
- ADHESIVE USED SHALL BE WATERPROOF, MEETING THE REQUIREMENTS OF ASTM D-2559-12a (2018).
- ALL SIMPSON CONNECTORS (HANGERS, STRAPS, UPLIFT CONNECTORS, POST CAPS, ETC.) SHALL BE COATED WITH Z-MAX CORROSION RESISTANCE.
- ALL FASTENING SHALL COMPLY WITH TABLE 2304.10.1 FASTENING SCHEDULE OF THE RHODE ISLAND STATE BUILDING CODE.



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 ISSUED FOR CONSTRUCTION
 APRIL 18, 2024

Revision Schedule	
Revision Number	Revision Date

SHEET TITLE
DESIGN LOADS & GENERAL NOTES

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STRUCTURAL - CONCRETE CONSTRUCTION SECTION

CONCRETE CONSTRUCTION, INCLUDING COMPOSITE DECK - VERIFY THE FOLLOWING ARE IN COMPLIANCE
IBC Table 1705.3 (ACI 318 References Noted In IBC Table)

TASK	INSPECTION TYPE	DESCRIPTION
1. Inspect reinforcement, including prestressing tendons, and verify placement.	OBSERVE	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and unacceptable rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
2. Reinforcing bar welding	OBSERVE	✓ Verify weldability of reinforcing bars other than ASTM A 706 ✓ Inspect single-pass fillet welds, maximum 5/16" in accordance with AWS D1.4
3. Determination of carbon equivalent for reinforcing steel other than ASTM A706	CONTINUOUS	Visually inspect all welds in accordance with AWS D1.4
4. Cast in place anchors and post installed drilled anchors (downward inclined)	OBSERVE	Verify prior to placing concrete that cast in place anchors and post installed drilled anchors have proper embedment, spacing and edge distance.
5. Post-installed adhesive anchors in horizontal or upward inclined orientations	CONTINUOUS AND DOCUMENT	✓ Inspect as required per approved ICC-ES report ✓ Verify that installer is certified for installation of horizontal and overhead installation applications ✓ Inspect proof loading as required by the contract documents
6. Verify use of required mix design	OBSERVE	Verify that all mixes used comply with the approved construction documents
7. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of concrete	CONTINUOUS	At the time fresh concrete is sampled to fabricate specimens for strength test verify these tests are performed by qualified technicians.
8. Inspect concrete and/or shotcrete placement for proper application techniques	CONTINUOUS	Verify proper application techniques are used during concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
9. Verify maintenance of specified curing temperature and technique	OBSERVE	Inspect curing, cold weather protection, and hot weather protection procedures.
10. Pre-stressed concrete	CONTINUOUS	Verify application of prestressing forces and grouting of bonded prestressing tendons.
11. Inspect erection of precast concrete members	OBSERVE	
12. Verify 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	OBSERVE	
13. Inspect formwork for shape, location and dimensions of the concrete member being formed.	OBSERVE	

OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT: Document in a report that work has been performed as required. This is in addition to all other required reports.
CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

STRUCTURAL - MASONRY CONSTRUCTION SECTION (ALL RISK CATEGORIES)

MASONRY CONSTRUCTION AT START OF CONSTRUCTION - VERIFY THE FOLLOWING ARE IN COMPLIANCE
IBC 1705.4 (TMS 602-16 Tables 3 & 4)

TASK	INSPECTION TYPE	DESCRIPTION
1. Compliance with approved submittals prior to start	OBSERVE	
2. Proportions of site-mixed mortar.	OBSERVE	
3. Grade and type of reinforcement, anchor bolts, and prestressing tendons and anchorages	OBSERVE	
4. Prestressing technique	OBSERVE	
5. Properties of thin bed mortar for AAC masonry	OBSERVE	

OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

MASONRY CONSTRUCTION PRIOR TO GROUTING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
IBC 1705.4 (TMS 602-16 Tables 3 & 4)

TASK	INSPECTION TYPE	DESCRIPTION
6. Grout space	OBSERVE CONTINUOUS	[NOTE: DOR must either delete 'OBSERVE' for Risk Category IV/V, or delete 'CONTINUOUS' for Risk Categories III/ IIII]
7. Proportions of site-prepared grout and prestressing grout for bonded tendons	OBSERVE	
8. Proportions of site-mixed grout and prestressing grout for bonded tendons	OBSERVE	
9. Placement of masonry units and mortar joints	OBSERVE	
10. Welding of reinforcement	CONTINUOUS	

OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

MASONRY CONSTRUCTION DURING CONSTRUCTION - VERIFY THE FOLLOWING ARE IN COMPLIANCE
IBC 1705.4 (TMS 602-16 Tables 3 & 4)

TASK	INSPECTION TYPE	DESCRIPTION
11. Size and location of structural elements is in compliance	OBSERVE	
12. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4 °C) or hot weather (temp above 90°F (32 °C))	OBSERVE	
13. Application and measurement of prestressing force	CONTINUOUS	
14. Placement of grout and prestressing grout for bonded tendons	CONTINUOUS	
15. Placement of AAC masonry units and construction of thin bed mortar joints	CONTINUOUS	Continuous for first 5000 square feet only (465 square meters).
16. Observe preparation of grout specimens, mortar specimens, and/or prisms	OBSERVE	
17. Type, size and placement of reinforcement, connectors, anchor bolts and prestressing tendons and anchorages, including details of anchorage of masonry to structural members, frames, or other construction	OBSERVE CONTINUOUS	[NOTE: DOR must either delete 'OBSERVE' for Risk Category IV/V, or delete 'CONTINUOUS' for Risk Categories III/ IIII]

OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

STRUCTURAL - WOOD CONSTRUCTION - SEISMIC & WIND SECTION

WOOD CONSTRUCTION SEISMIC & WIND - VERIFY THE FOLLOWING ARE IN COMPLIANCE
2018 IBC 1705.11 & 1705.12.2

TASK	INSPECTION TYPE	DESCRIPTION
1. Nailing, bolting, anchoring and other fastening of elements of the main wind/seismic force-resisting system	OBSERVE (CONTINUOUS FOR GLUING)	Includes connectors for: shearnail sheathing, roof/loor sheathing, drag struts/collectors (double top plates), braces, hold downs, roof connections to exterior walls.

OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.

GEOTECHNICAL - SOILS INSPECTION SECTION

SOILS INSPECTION - VERIFY THE FOLLOWING ARE IN COMPLIANCE
IBC 1705.6

TASK	INSPECTION TYPE	DESCRIPTION
1. Materials below shallow foundations are adequate to achieve the design bearing capacity.	OBSERVE	
2. Excavations are extended to proper depth and have reached proper material	OBSERVE	
3. Perform classification and testing of compacted fill materials	OBSERVE	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	CONTINUOUS	
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	OBSERVE	During fill placement, the special inspector shall verify that proper materials and procedures are used in accordance with the provisions of the approved geotechnical report

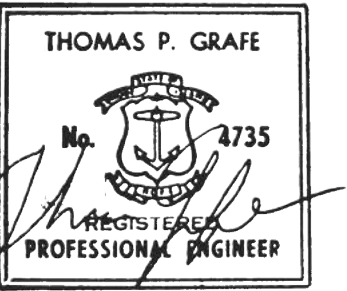
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

GEOTECHNICAL - DRIVEN DEEP FOUNDATION ELEMENTS SECTION

DEEP DRIVEN FOUNDATION CONSTRUCTION - VERIFY THE FOLLOWING ARE IN COMPLIANCE
IBC 1705.7

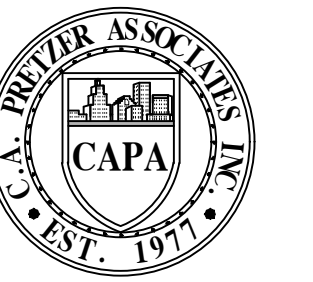
TASK	INSPECTION TYPE	DESCRIPTION
1. Verify element materials, sizes and lengths comply with requirements	CONTINUOUS	
2. Inspect driving operations and maintain complete and accurate records for each element	CONTINUOUS	
3. Verify placement locations, determine required penetrations to achieve design capacity.	CONTINUOUS	
4. Determine capacities of test elements and conduct additional load tests if required.	CONTINUOUS	

CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

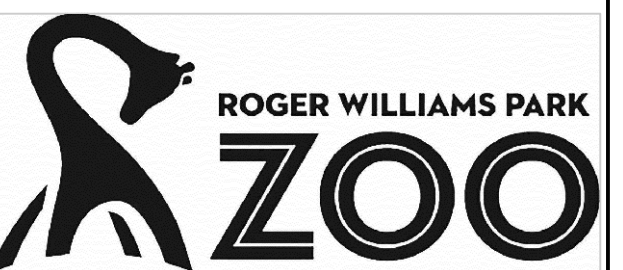


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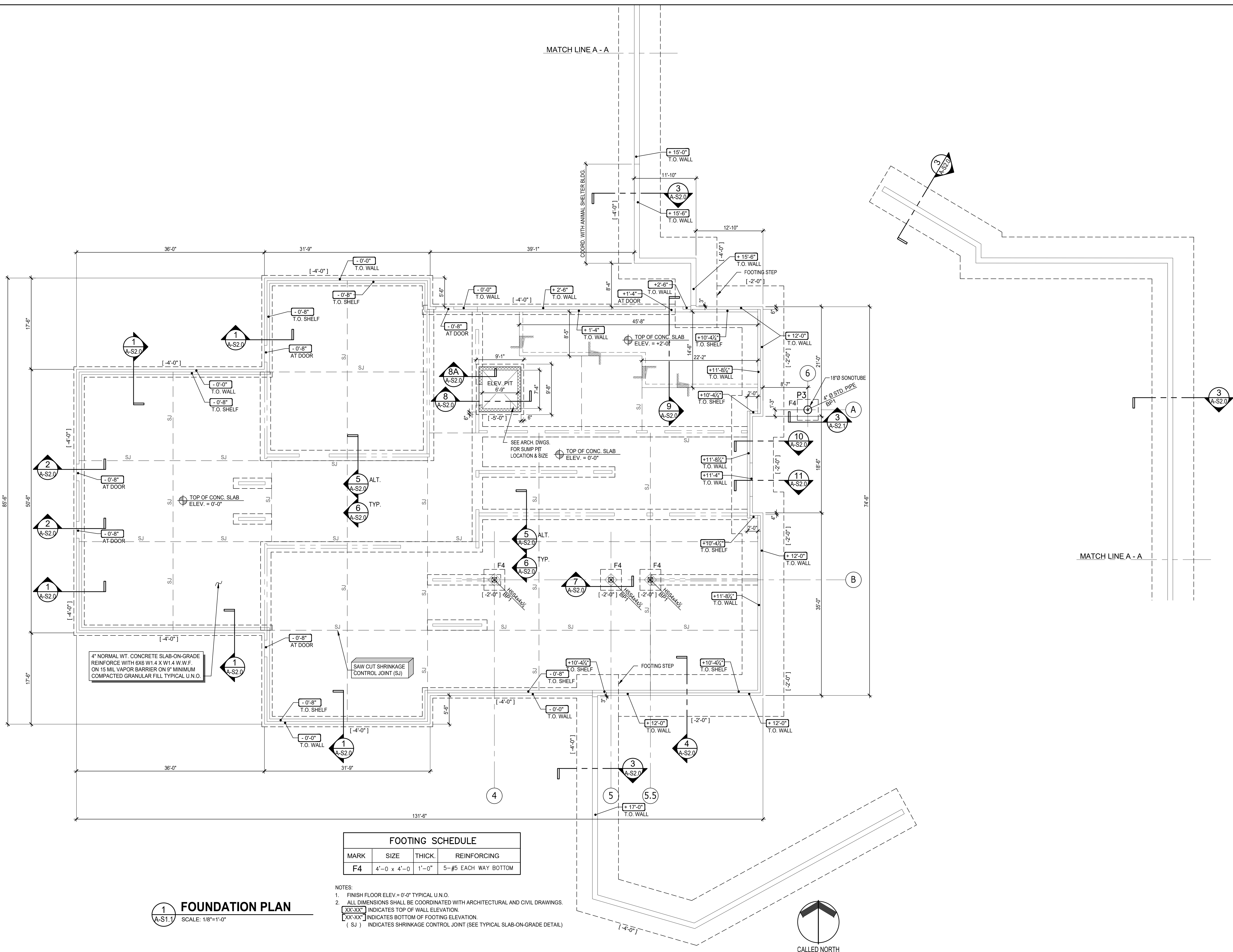
SPECIAL INSPECTIONS

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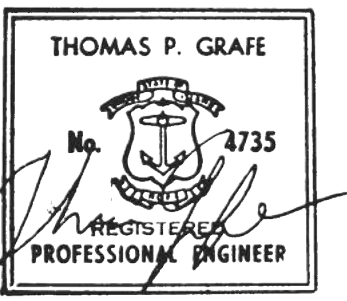


4" NORMAL WT. CONCRETE SLAB-ON-GRADE REINFORCE WITH 6X6 W1.4 X W1.4 W.W.F. ON 15 MIL VAPOR BARRIER ON 9" MINIMUM COMPACTED GRANULAR FILL TYPICAL U.N.O.

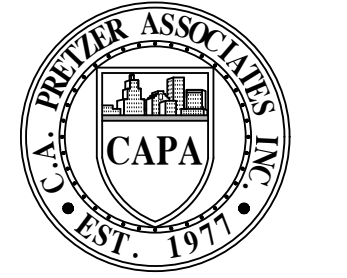
FOOTING SCHEDULE			
MARK	SIZE	THICK.	REINFORCING
F4	4'-0" x 4'-0"	1'-0"	5-#5 EACH WAY BOTTOM

- NOTES:
- FINISH FLOOR ELEV. = 0'-0" TYPICAL U.N.O.
 - ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL AND CIVIL DRAWINGS.
 - XX-XXX INDICATES TOP OF WALL ELEVATION.
 - XX-XXX INDICATES BOTTOM OF FOOTING ELEVATION.
 - (SJ) INDICATES SHRINKAGE CONTROL JOINT (SEE TYPICAL SLAB-ON-GRADE DETAIL)

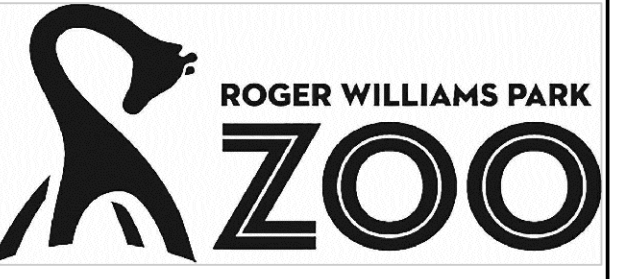
1 FOUNDATION PLAN
SCALE: 1/8"=1'-0"



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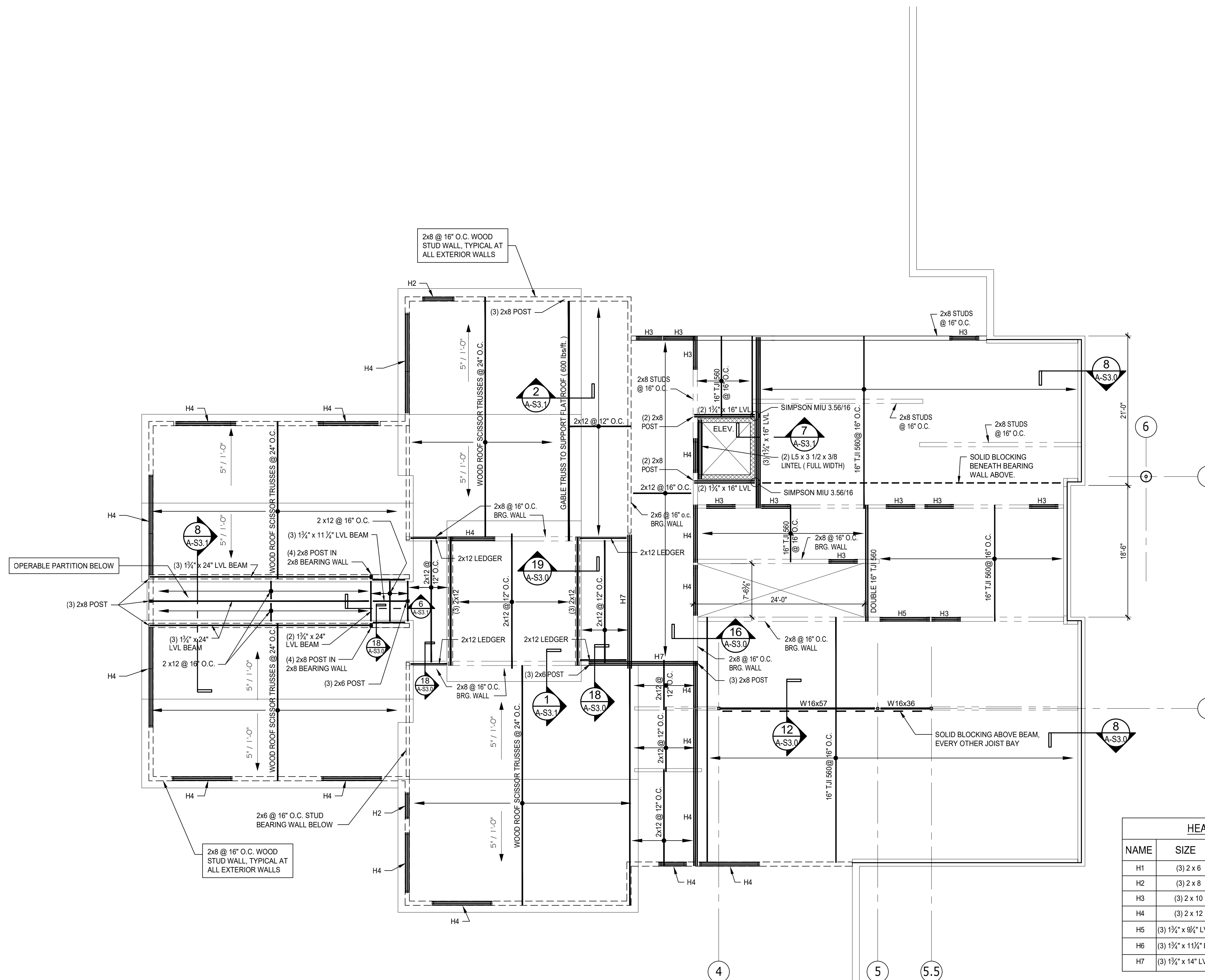
SHEET TITLE
FOUNDATION PLAN

DRAWN BY: JMF CAPA JOB #: 222834.20
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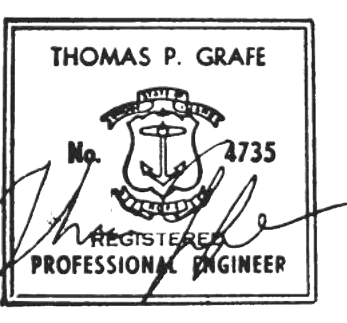
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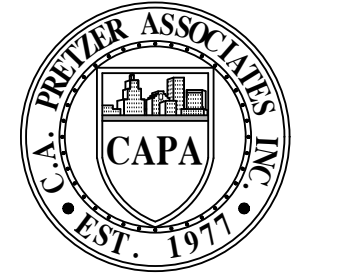


HEADER SCHEDULE			
NAME	SIZE	JACK STUDS	KING STUDS
H1	(3) 2 x 6	(2) 2 x 8	(1) 2 x 8
H2	(3) 2 x 8	(2) 2 x 8	(2) 2 x 8
H3	(3) 2 x 10	(2) 2 x 8	(2) 2 x 8
H4	(3) 2 x 12	(2) 2 x 8	(2) 2 x 8
H5	(3) 1 1/2" x 9 1/4" LVL	(2) 2 x 8	(2) 2 x 8
H6	(3) 1 1/2" x 11 1/2" LVL	(2) 2 x 8	(2) 2 x 8
H7	(3) 1 1/2" x 14" LVL	(2) 2 x 8	(2) 2 x 8

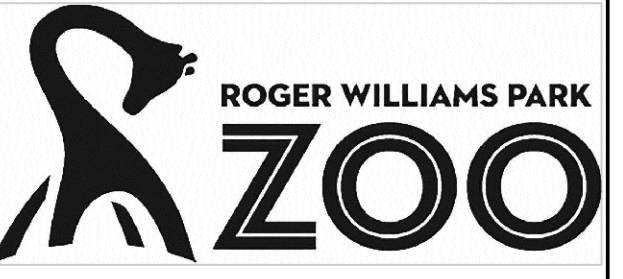
1 UPPER LEVEL & LOW ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"



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DESIGN, CONSULTATION, INVESTIGATION



Education Center and Pavilion
1000 Eddy Street
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APRIL 18, 2024

Revision Schedule	
Revision Number	Revision Date

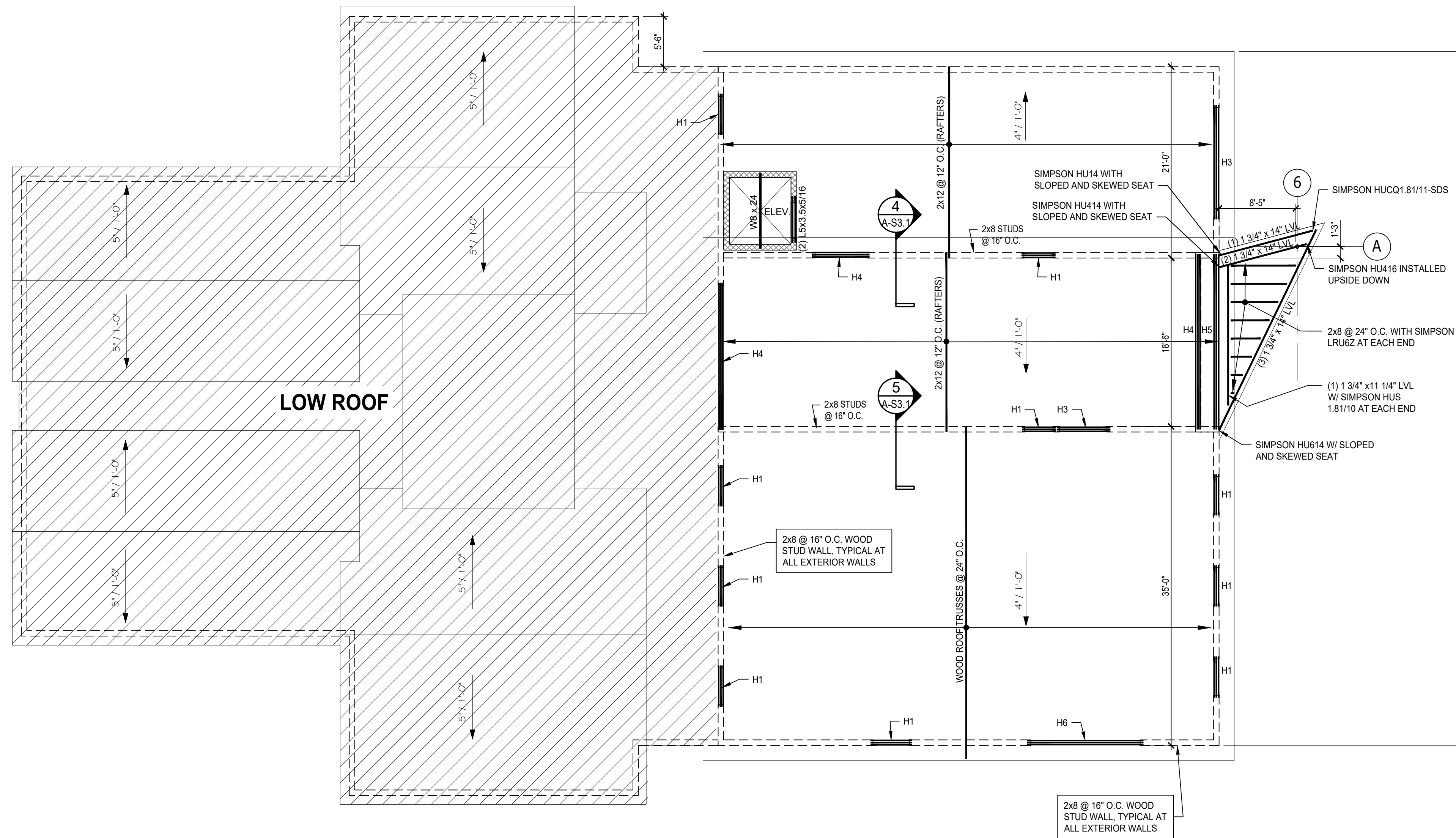
SHEET TITLE
UPPER LEVEL & LOW ROOF FRAMING PLAN

DRAWN BY: JMF CAPA JOB #: 222834.20
CHECKED BY: TPG DATE: APRIL 12, 2024

A-S1.2

SHEET: OF:

File Location: P:\Projects\222834_RWP Educational Ctr, Saccoccio\1_CAPA\222834_30 REDSIGN 2024\222834_30 CAPA RWP ED CTR APP-2024.dwg, Printed on: 4/18/2024, by: Jim Ferreira



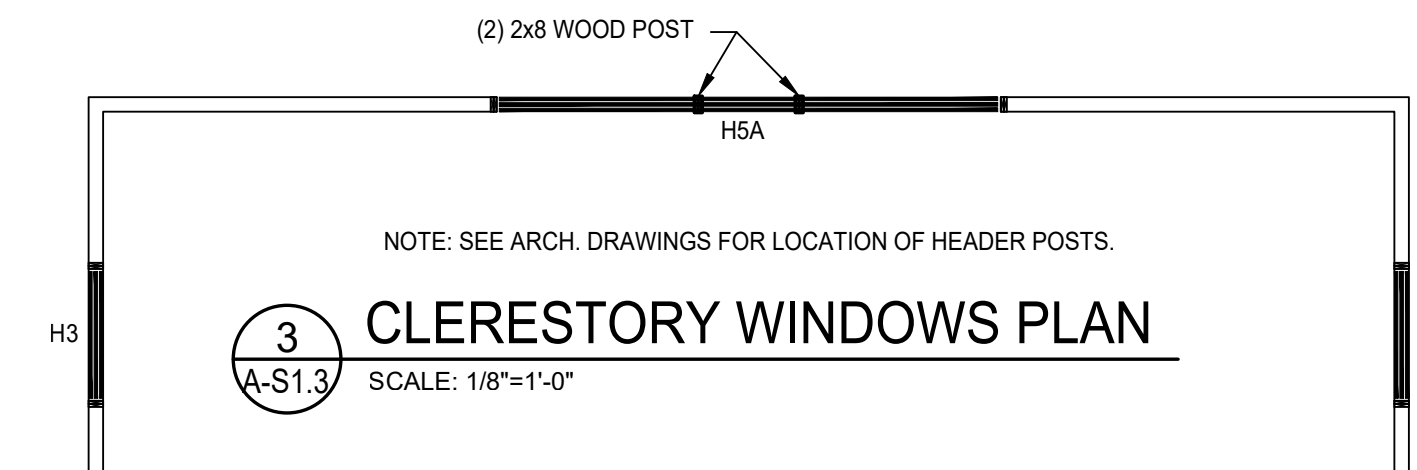
FRAMING NOTES

- ALL ROOF TRUSSES AND OVERHANGING WOOD MEMBERS SHALL BE HELD DOWN WITH HURRICANE ANCHORS PER TRUSS MANUFACTURERS REQUIREMENTS. (MIN. SIMPSON STRONG-TIE H2.5A ON THE EXTERIOR SIDE OF WALL)
- TRUSSES ARE SHOWN SCHEMATIC, REFER TO MANUFACTURERS DESIGN FOR SIZE AND LOCATION. GIRDER TRUSS HOLD DOWNS TO BE SPECIFIED BY TRUSS MANUFACTURER. GENERAL CONTRACTOR TO RECEIVE SHOP DRAWINGS FROM MANUFACTURER FOR HOLD DOWN REQUIREMENTS.
- ALL EXTERIOR WALLS SHALL BE SHEATHED WITH HUBER ZIPWALL SYSTEM R-12 (2 1/2" THICK), FASTEN SHEATHING WITH 0.131" DIA. SHANK NAILS FOR 1/2" PENETRATION INTO STUD, SPACED AT 3" O.C. ALONG PANEL EDGE AND 12" O.C. AT PANEL INFILL. BLOCK ALL PANEL EDGES SOLID.

TRUSS DESIGN LOAD REQUIREMENTS

LIVE LOAD TOP CHORD	30 PSF
DEAD LOAD TOP CHORD	15 PSF
LIVE LOAD BOT CHORD	20 PSF (AS REQ'D)
MECHANICAL LIVE LOAD BOT CHORD	50 PSF
DEAD LOAD BOT CHORD	10 PSF

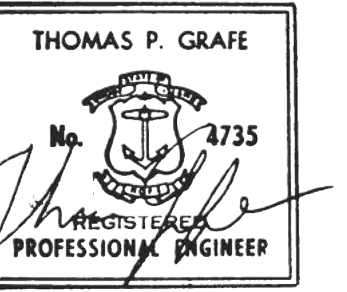
1 ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"



3 CLERESTORY WINDOWS PLAN
SCALE: 1/8"=1'-0"

HEADER SCHEDULE			
NAME	SIZE	JACK STUDS	KING STUDS
H1	(3) 2 x 6	(2) 2 x 8	(1) 2 x 8
H2	(3) 2 x 8	(2) 2 x 8	(2) 2 x 8
H3	(3) 2 x 10	(2) 2 x 8	(2) 2 x 8
H4	(3) 2 x 12	(2) 2 x 8	(2) 2 x 8
H5	(3) 1 3/4" x 9 1/2" LVL	(2) 2 x 8	(2) 2 x 8
H6	(3) 1 3/4" x 11 1/2" LVL	(2) 2 x 8	(2) 2 x 8
H7	(3) 1 3/4" x 14" LVL	(2) 2 x 8	(2) 2 x 8

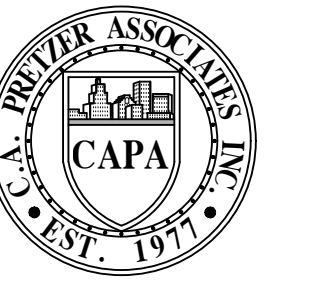
* HxA HEADERS SHALL HAVE INTERMEDIATE (2) 2x8 SUPPORTS AT LOCATIONS INDICATED ON PLAN.



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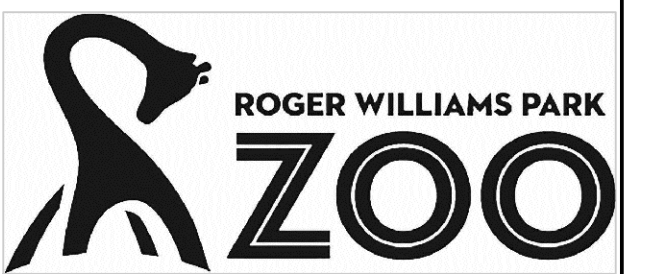
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Revision Schedule

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SHEET TITLE

ROOF FRAMING PLAN

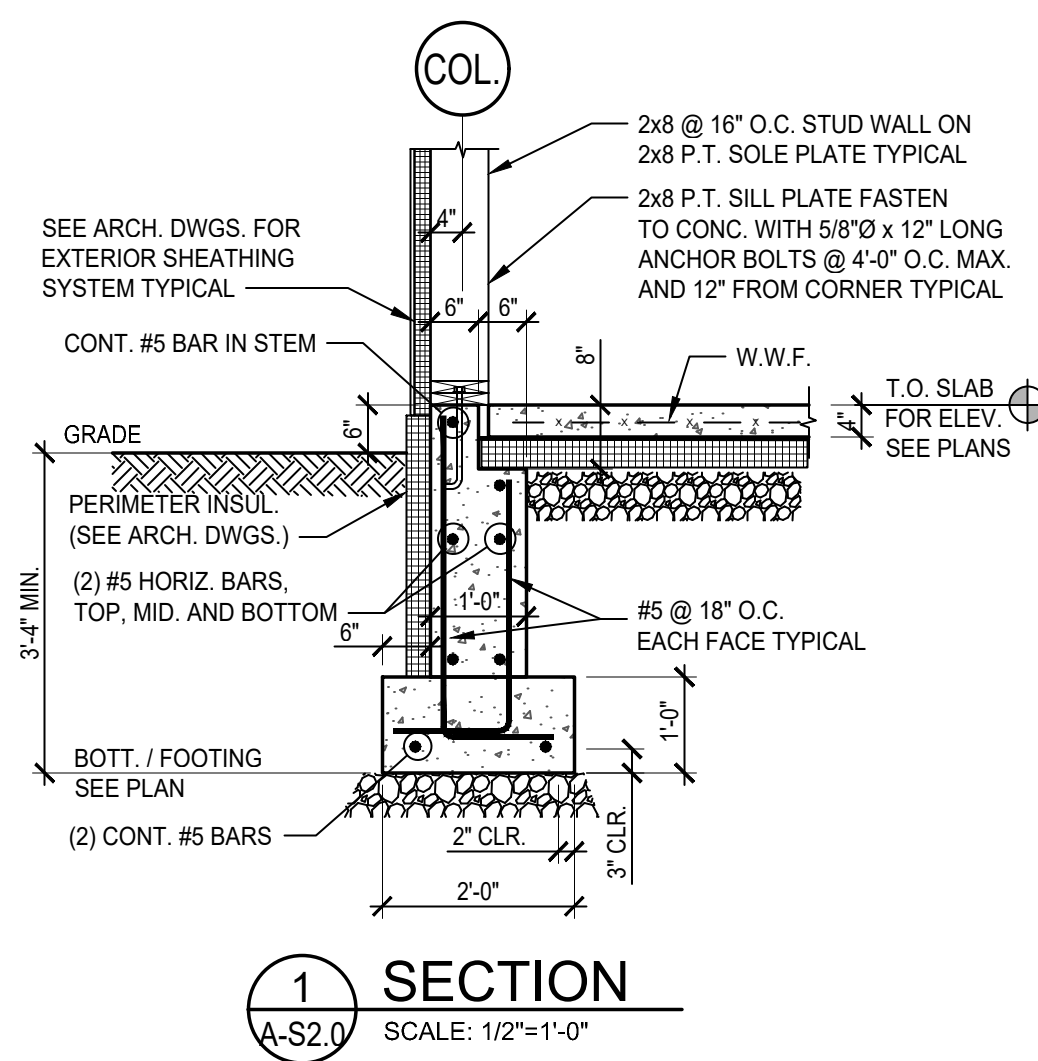
DRAWN BY: JMF CAPA JOB #: 222834.20

CHECKED BY: TPG DATE: APRIL 12, 2024

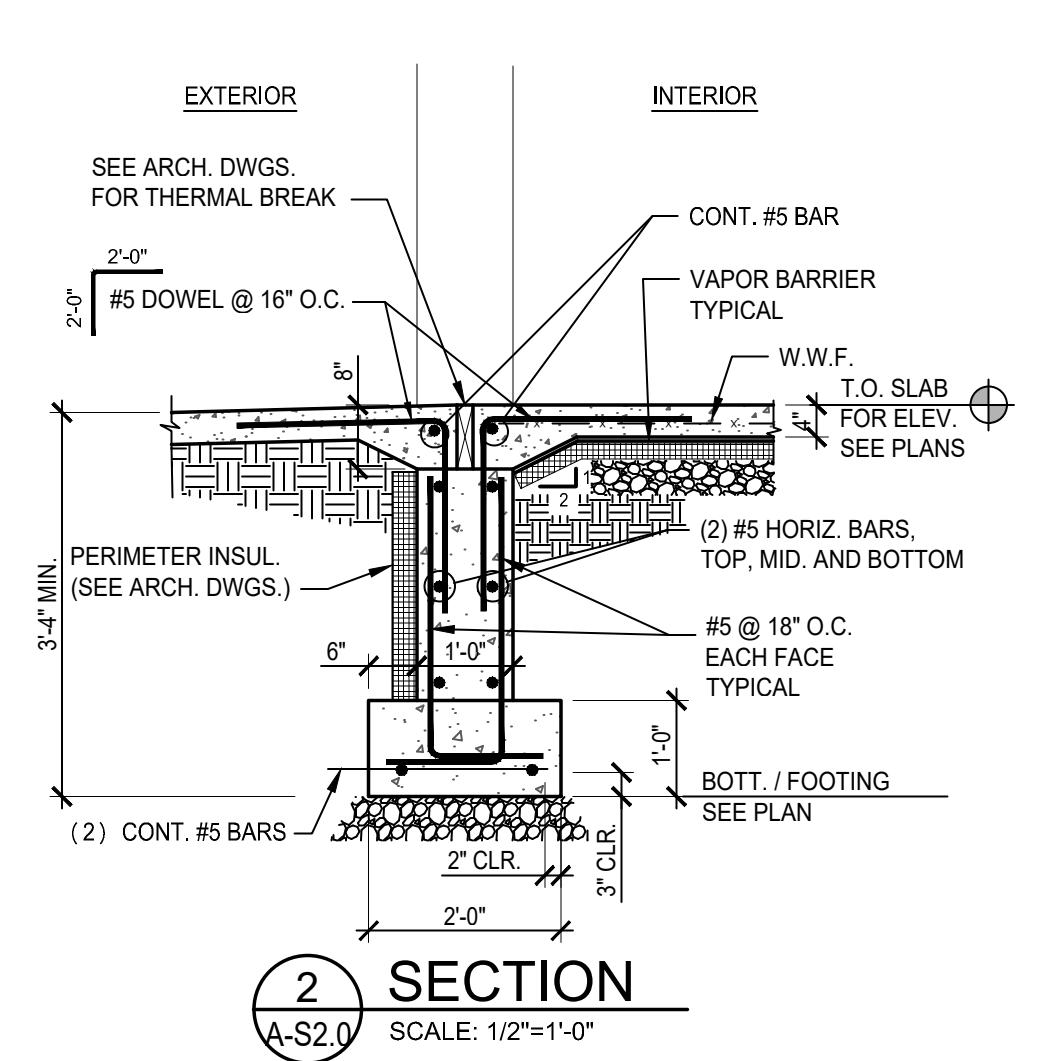
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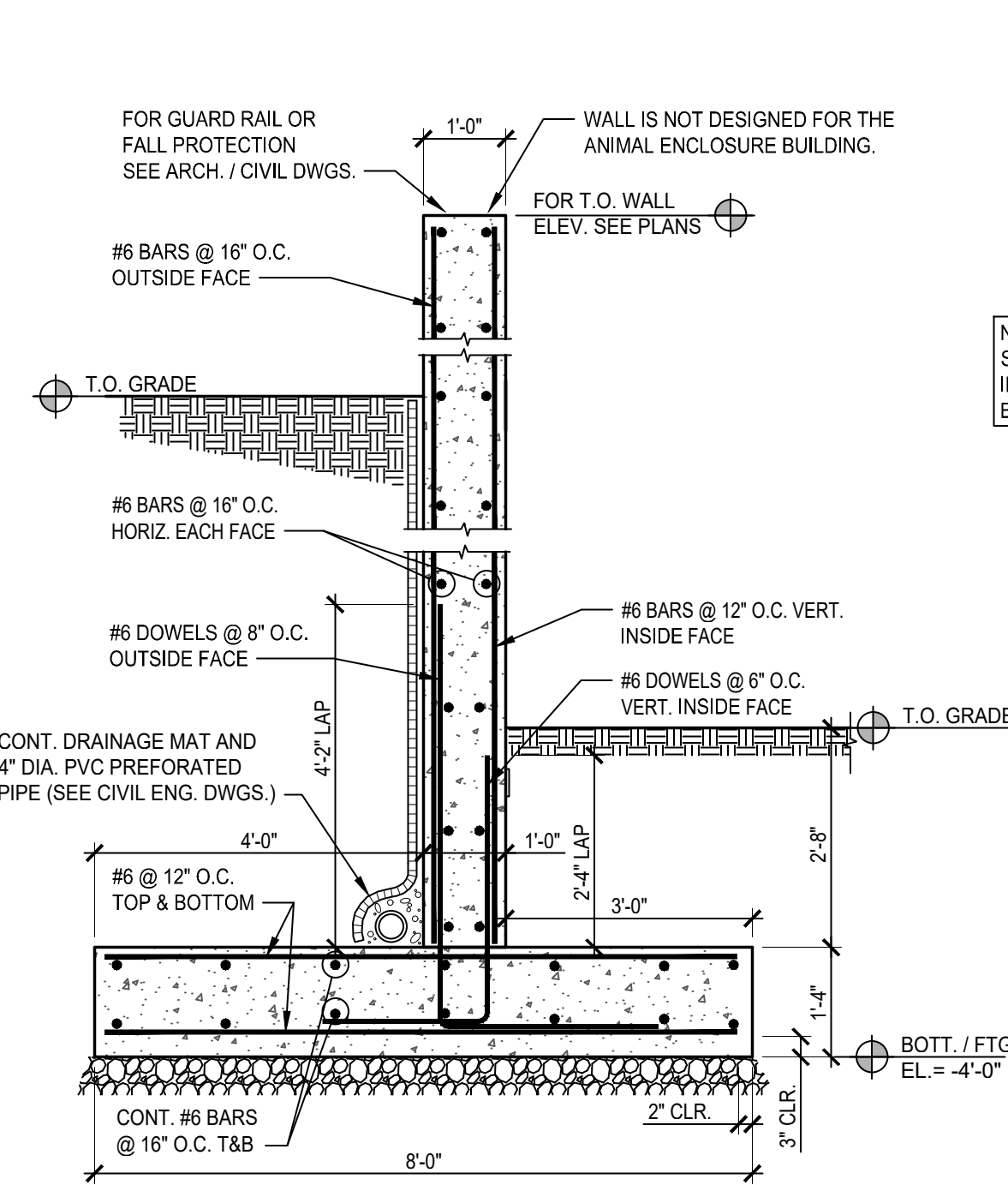
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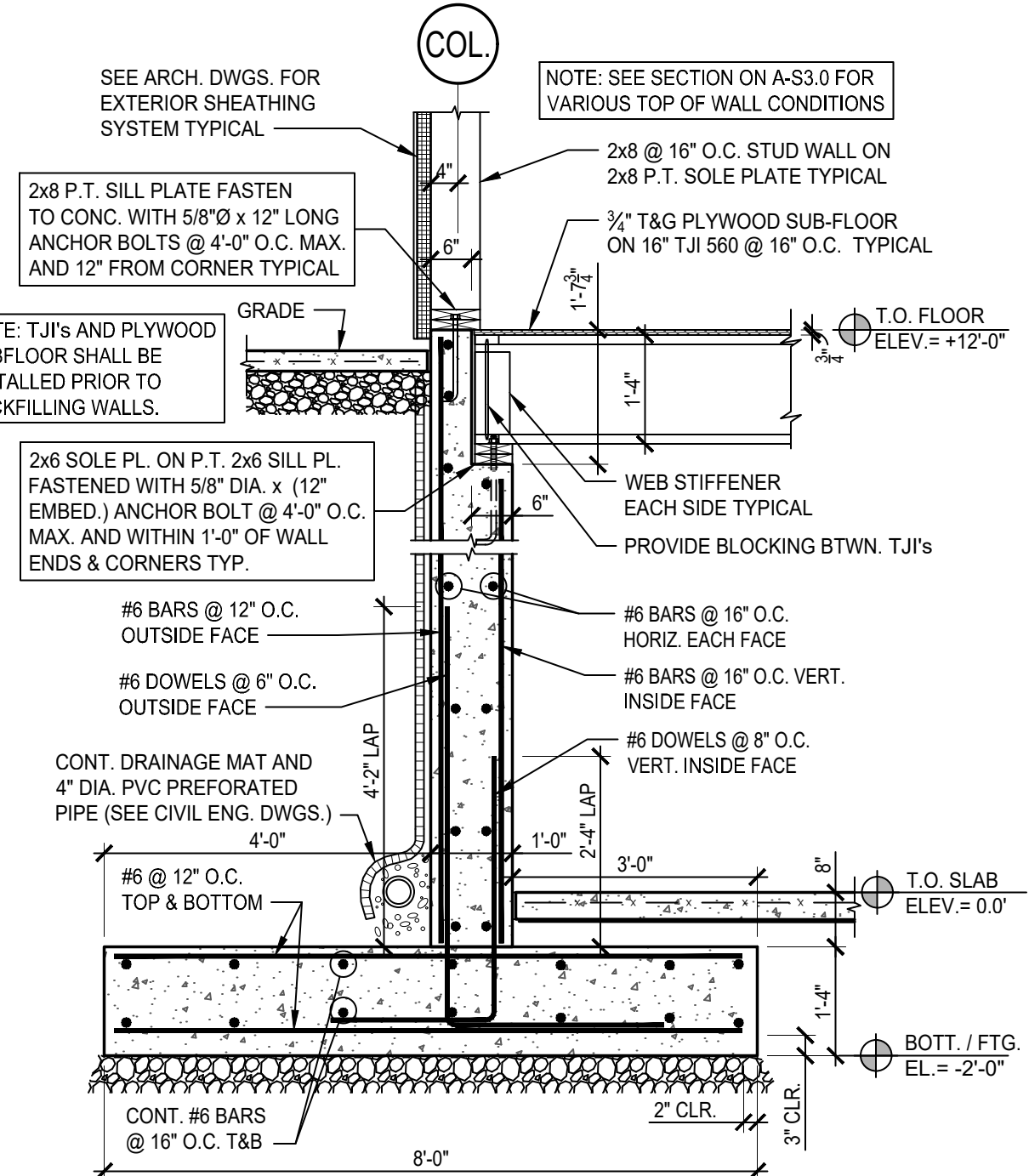
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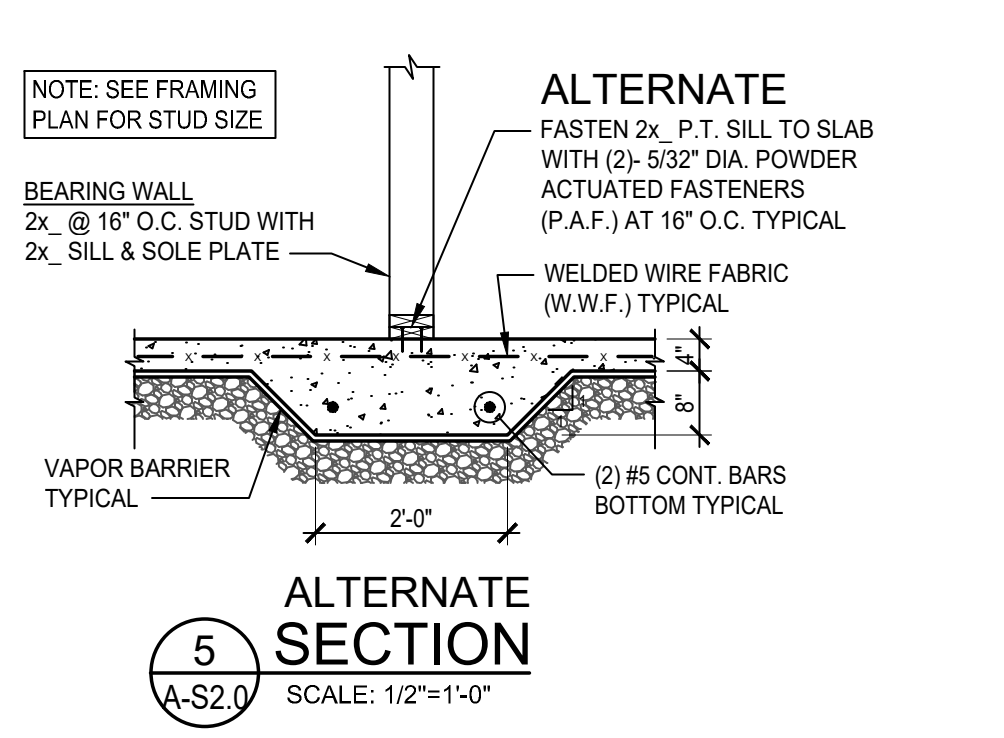
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A-S2.0 SCALE: 1/2"=1'-0"



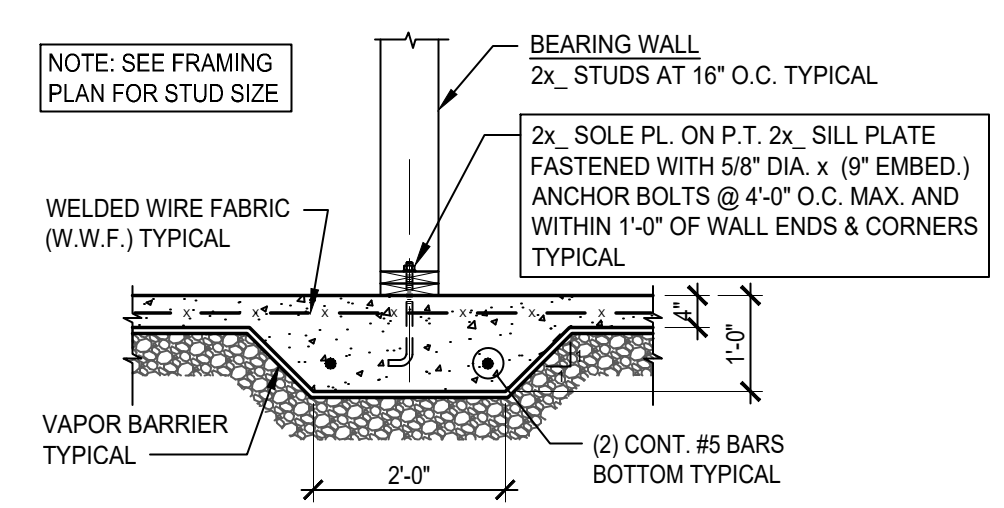
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A-S2.0 SCALE: 1/2"=1'-0"



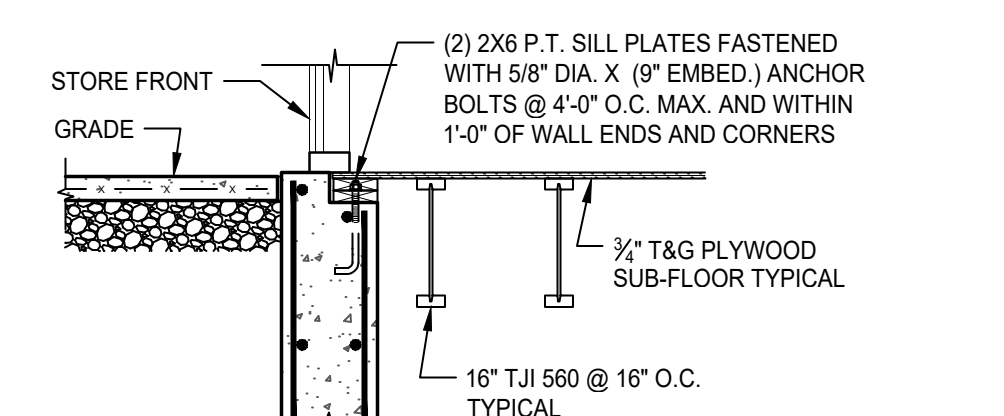
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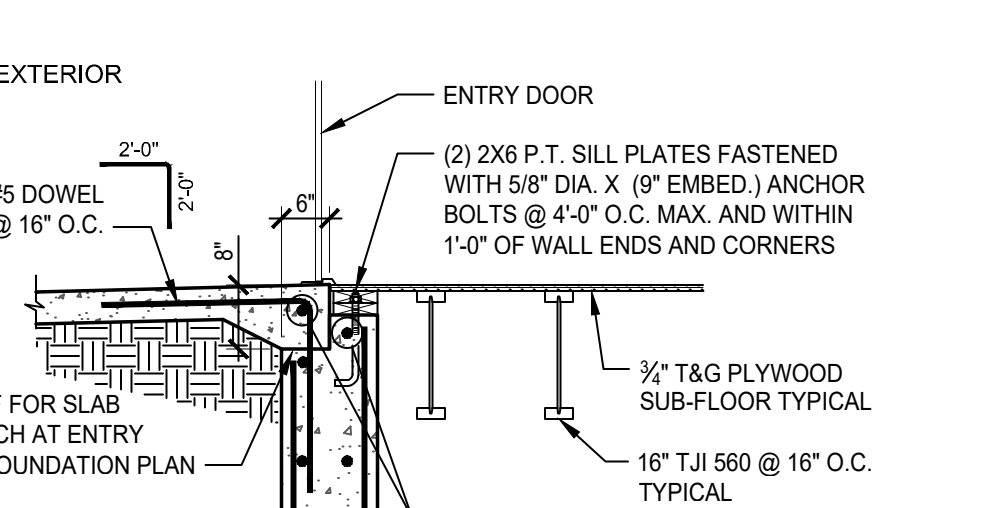
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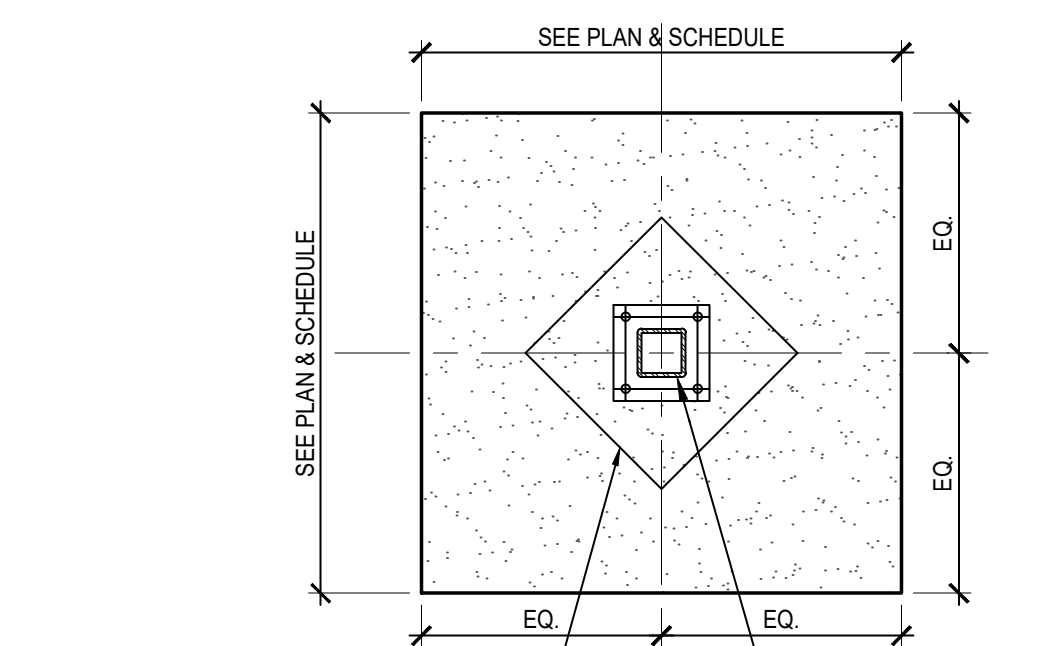
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A-S2.0 SCALE: 1/2"=1'-0"



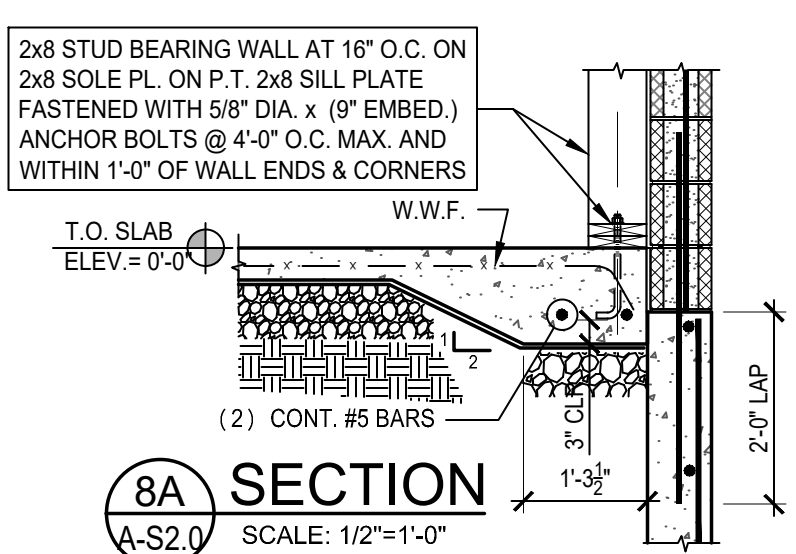
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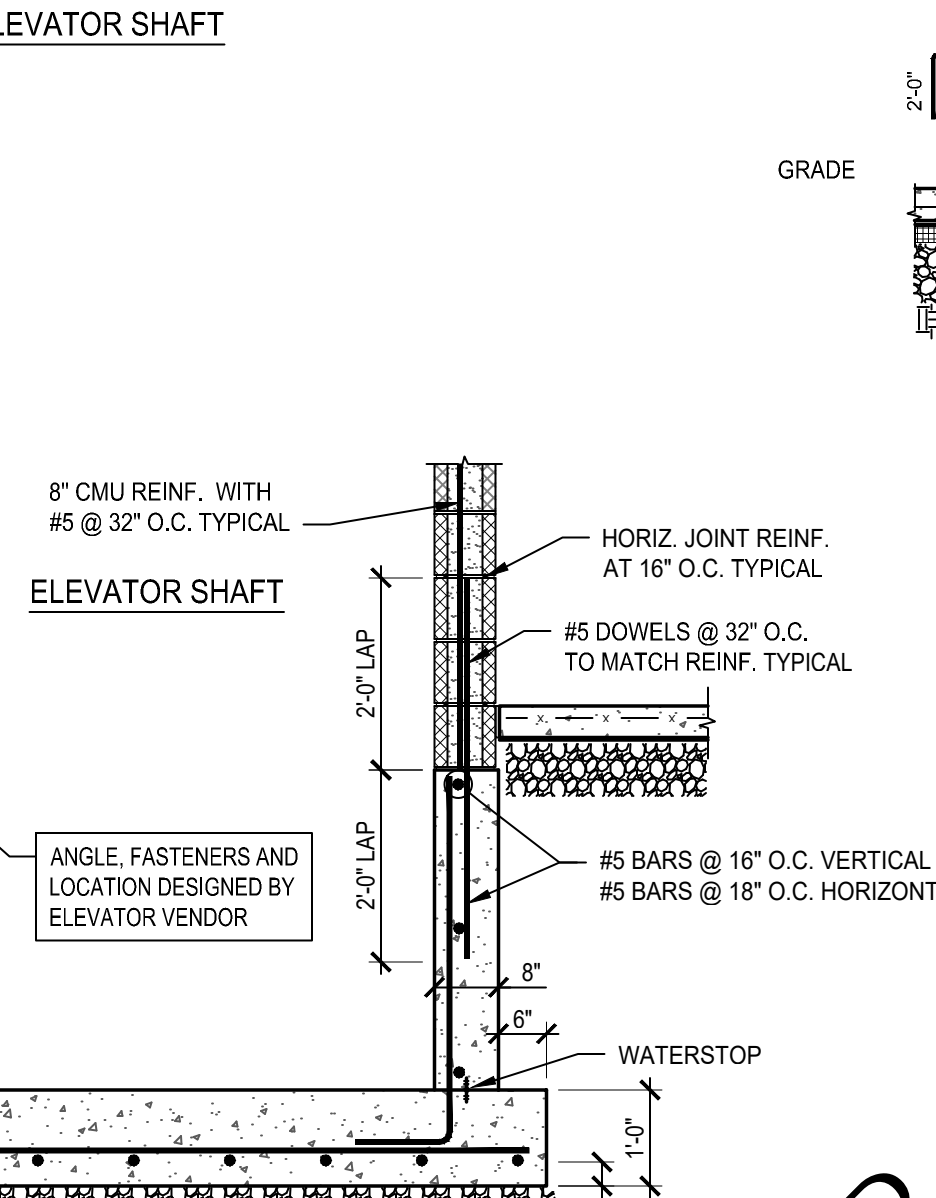
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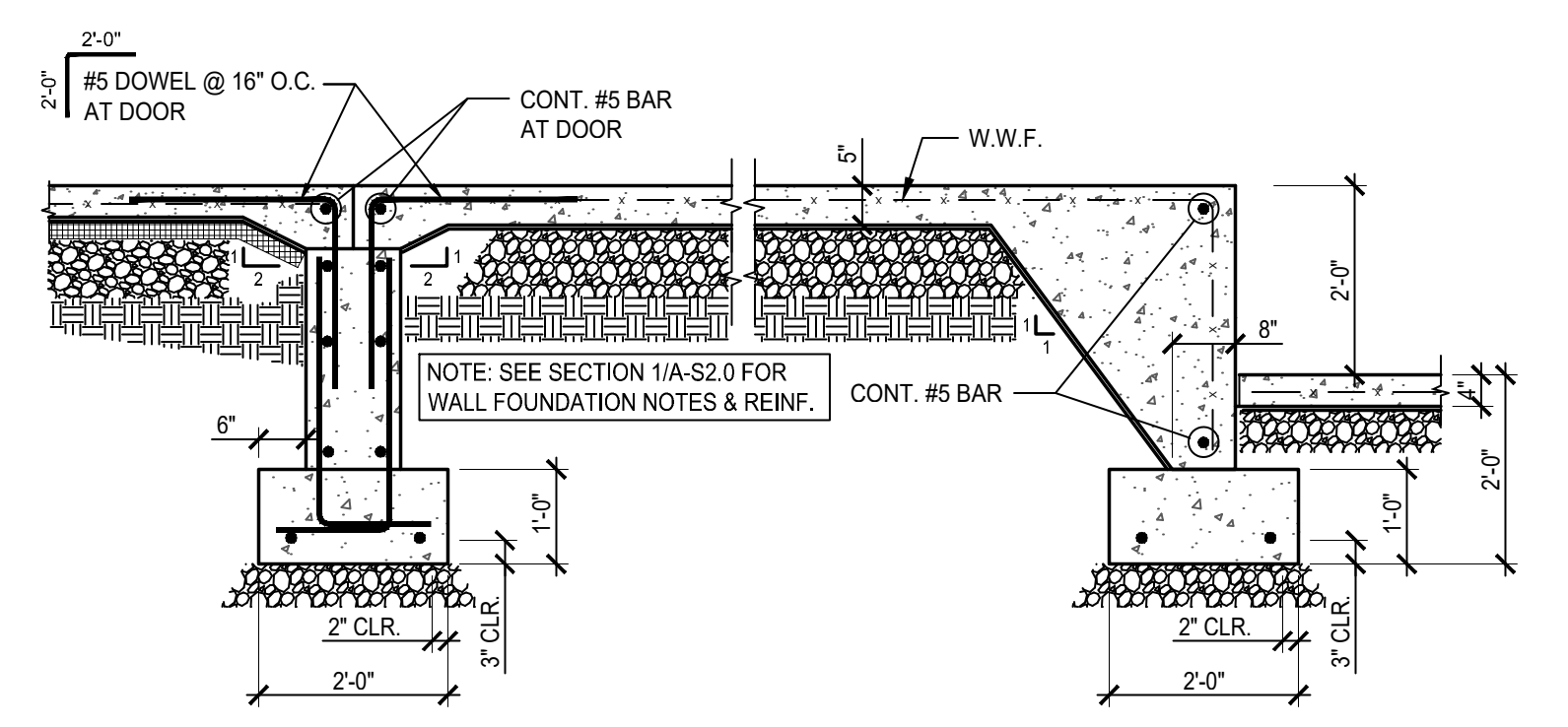
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A-S2.0 SCALE: 1/2"=1'-0"



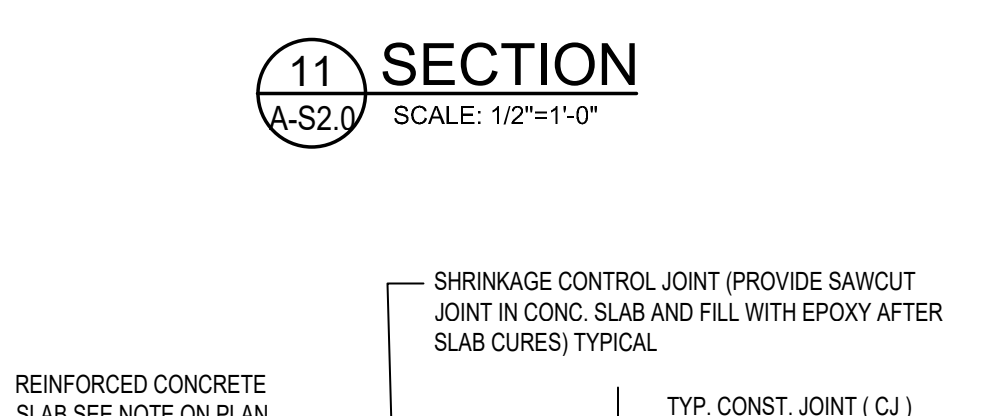
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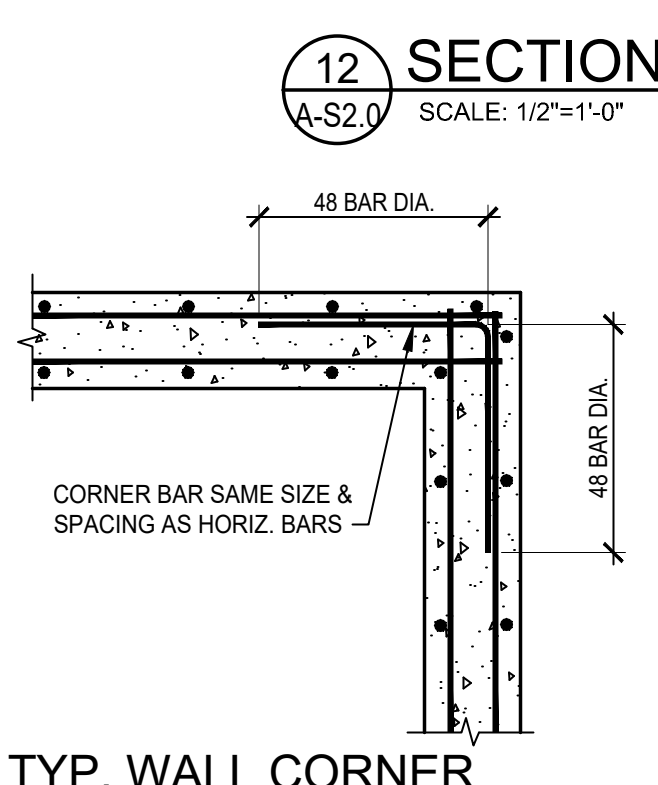
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A-S2.0 SCALE: 1/2"=1'-0"



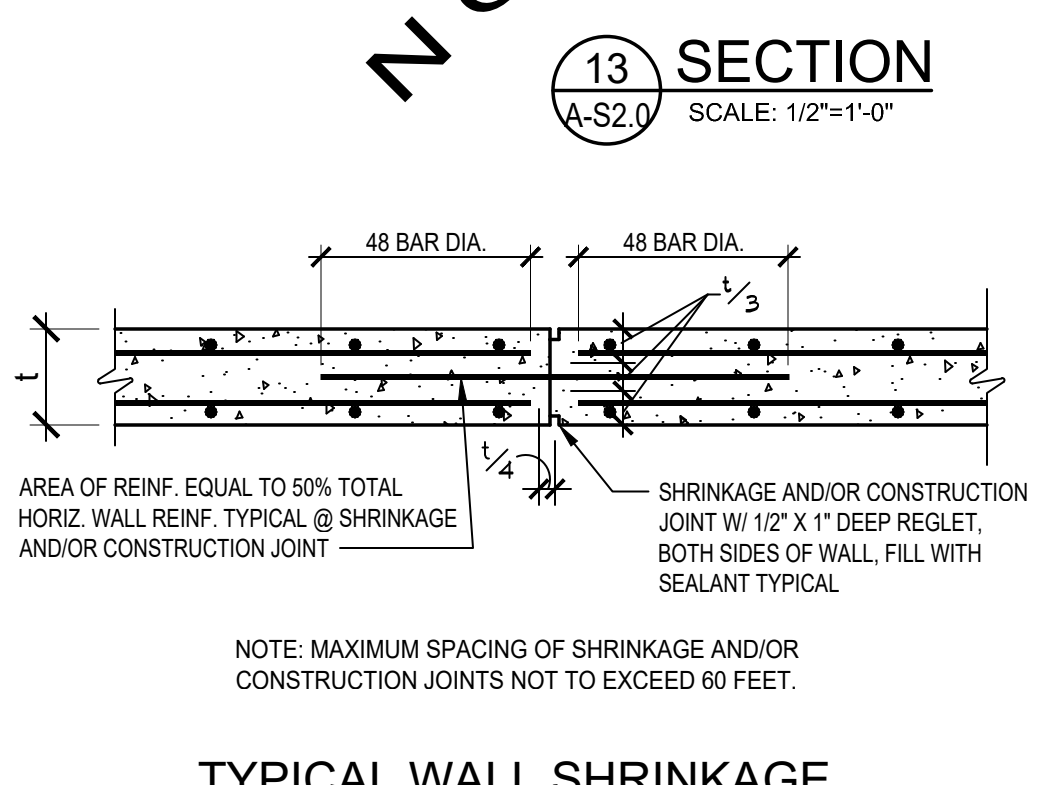
9 SECTION
A-S2.0 SCALE: 1/2"=1'-0"



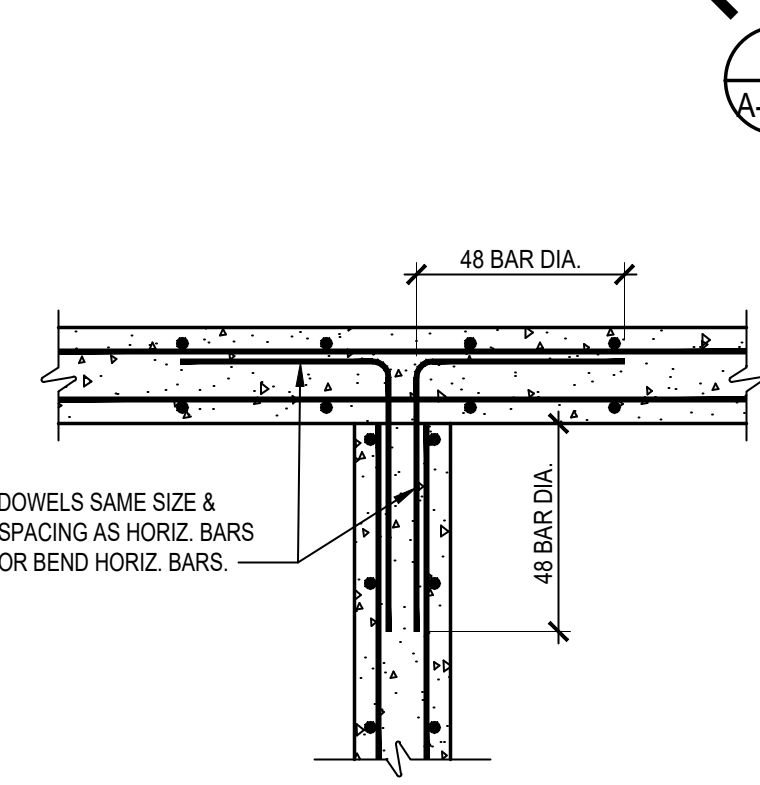
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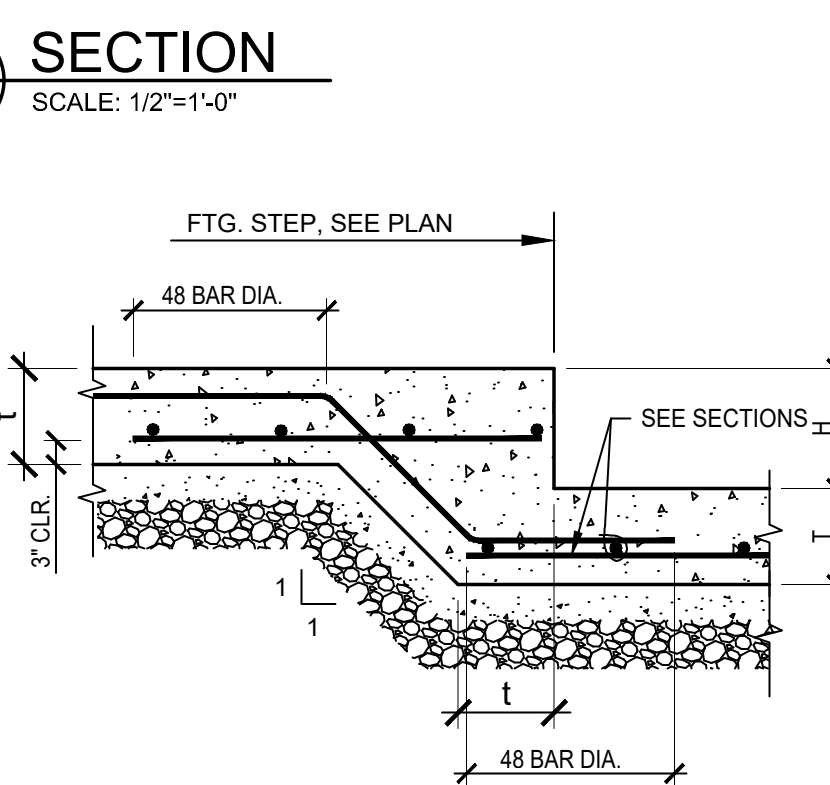
TYP. WALL CORNER



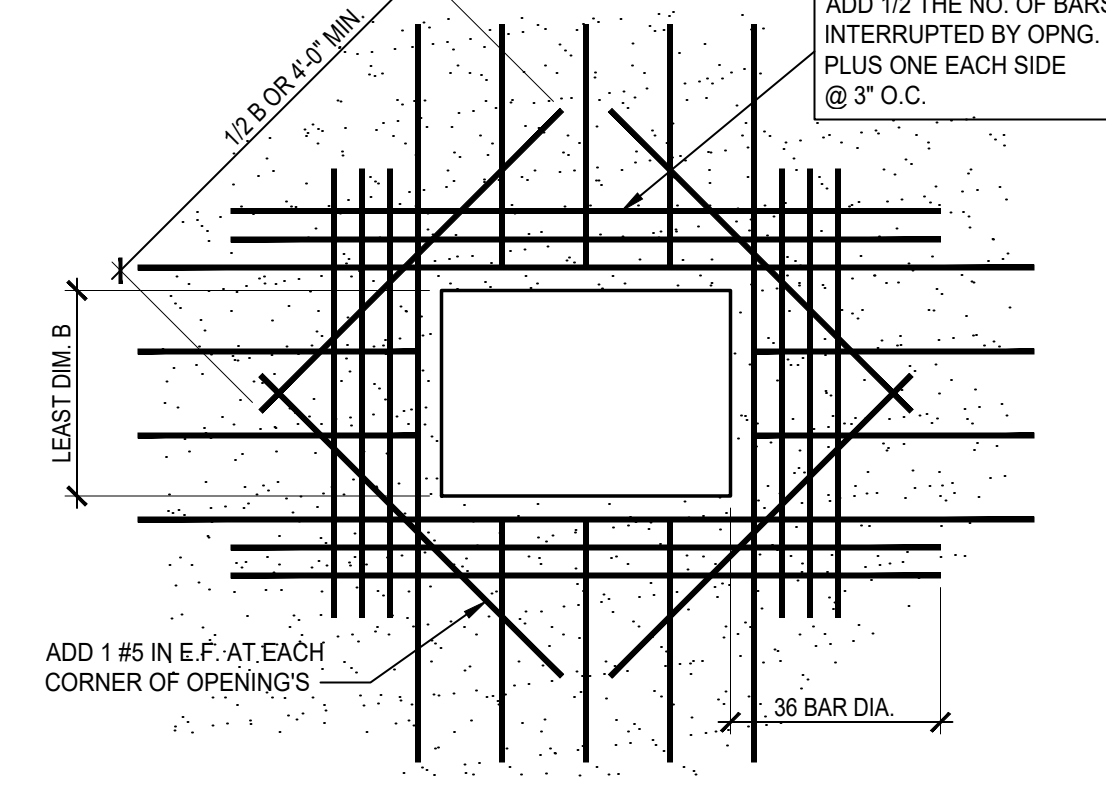
TYPICAL WALL SHRINKAGE AND/OR CONSTRUCTION JOINT



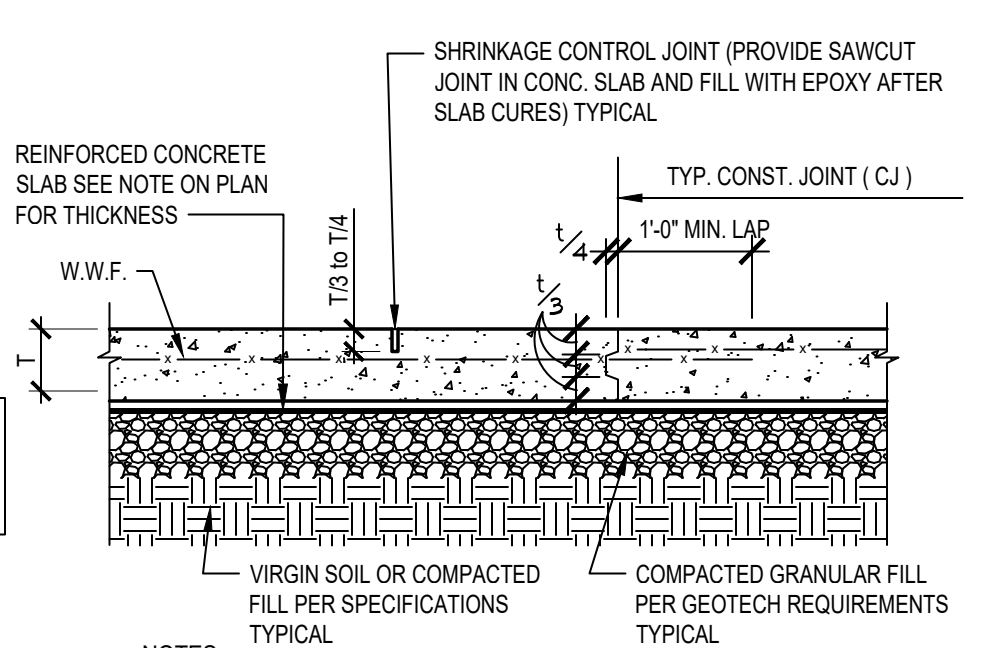
TYP. WALL INTERSECTION



TYP. FOOTING STEP



TYP. WALL OPENING DETAIL



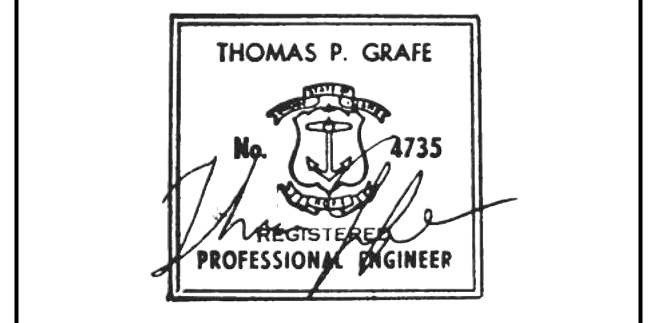
TYP. SLAB-ON-GRADE DETAIL

NOT USED

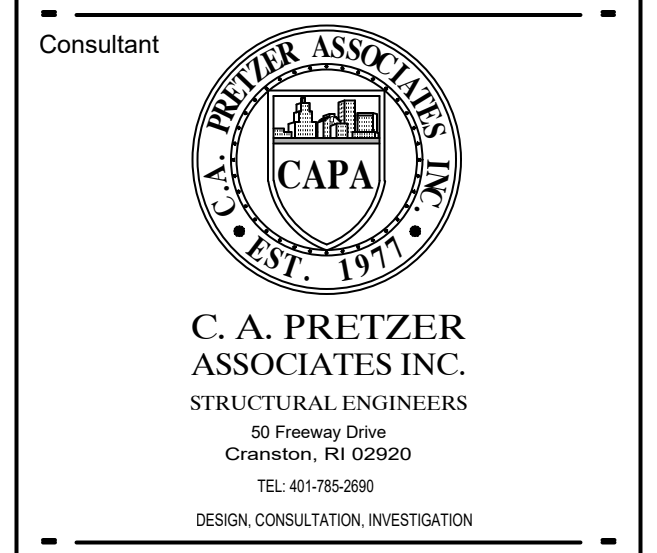
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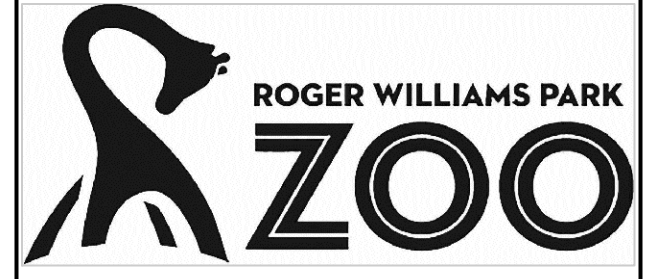
NOT USED



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APRIL 18, 2024

Revision Schedule	
Revision Number	Revision Date

SHEET TITLE
FOUNDATION SECTIONS AND DETAILS

DRAWN BY: JMF CAPA JOB #: 222834.20
CHECKED BY: TPG DATE: APRIL 12, 2024

A-S2.0

SHEET: OF:

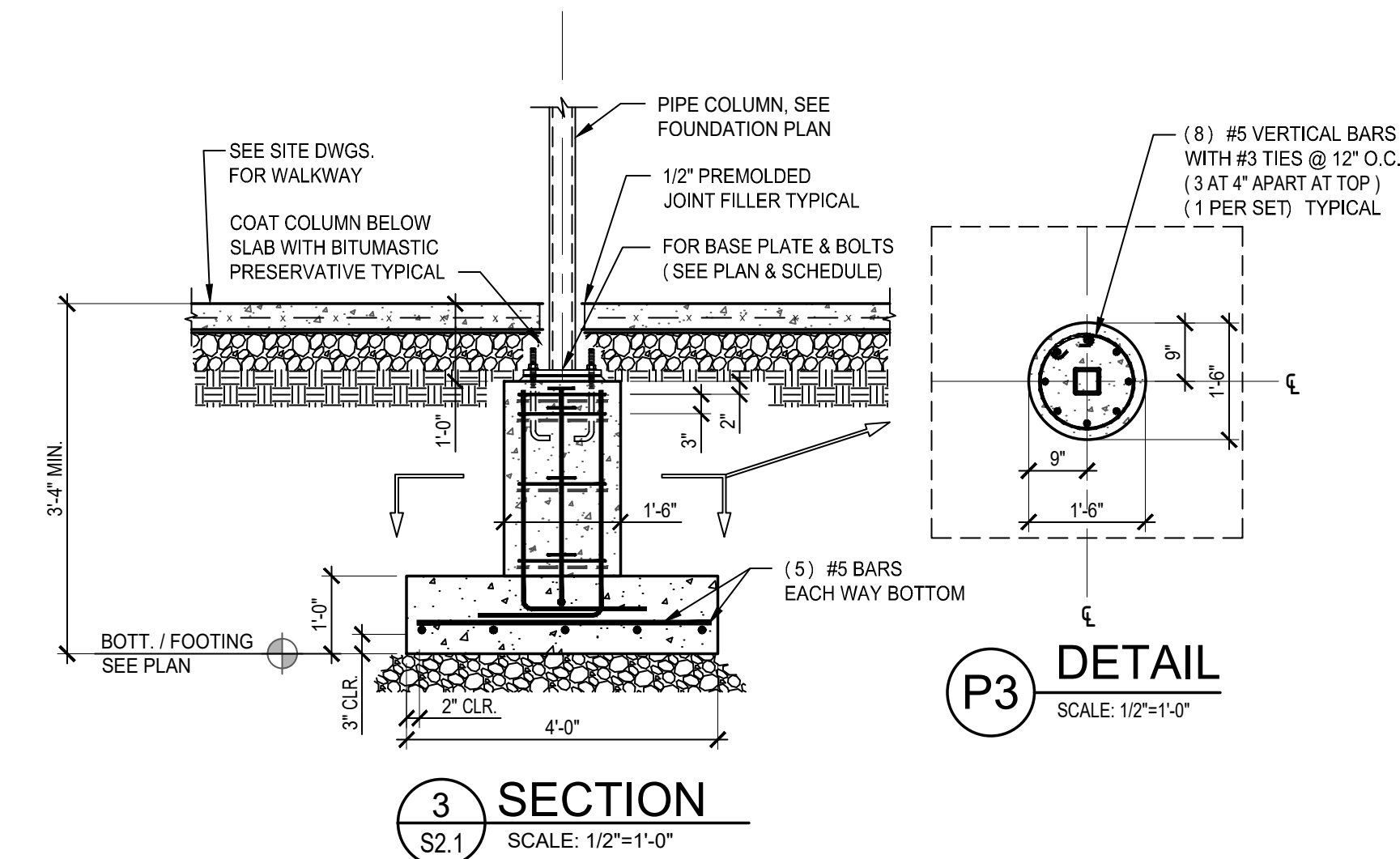
File Location: P:\Projects\222834_RWP Educational Ctr, Saccoccio\1. CAPA\222834_30 REDSIGN 2024\222834_30 CAPA RWP ED CTR APP-2024.dwg, Printed on: 4/18/2024, by: Jim Ferreira

NOT USED

NOT USED

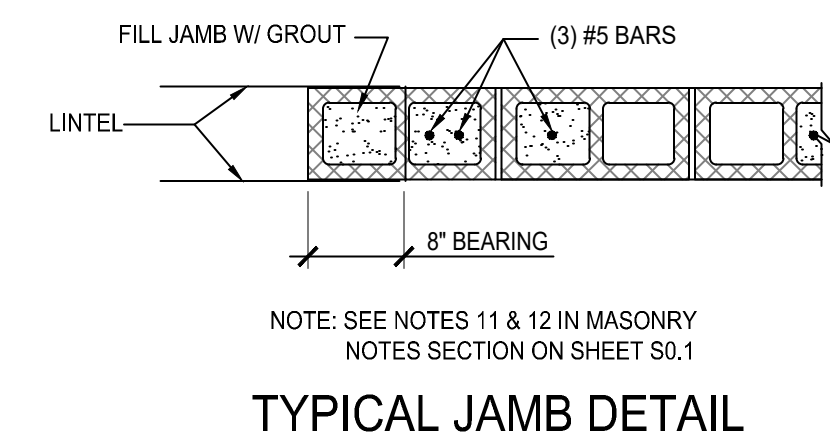
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2 SECTION
A-S2.1 SCALE: 1/2"=1'-0"

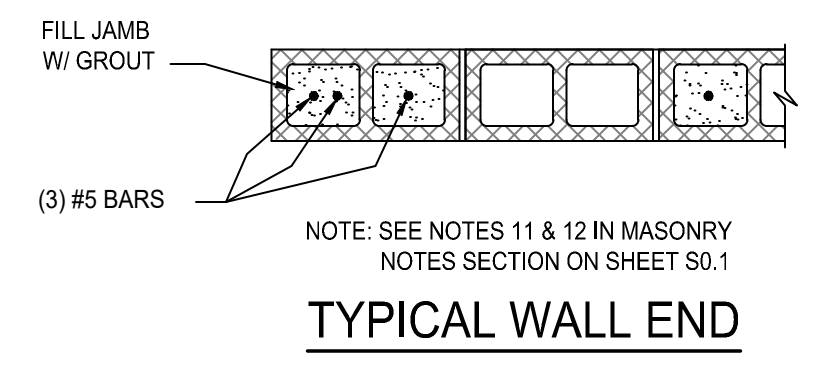


P3 DETAIL
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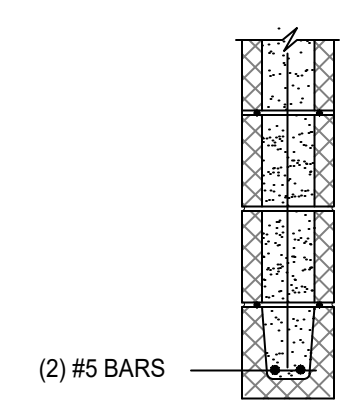
3 SECTION
S2.1 SCALE: 1/2"=1'-0"



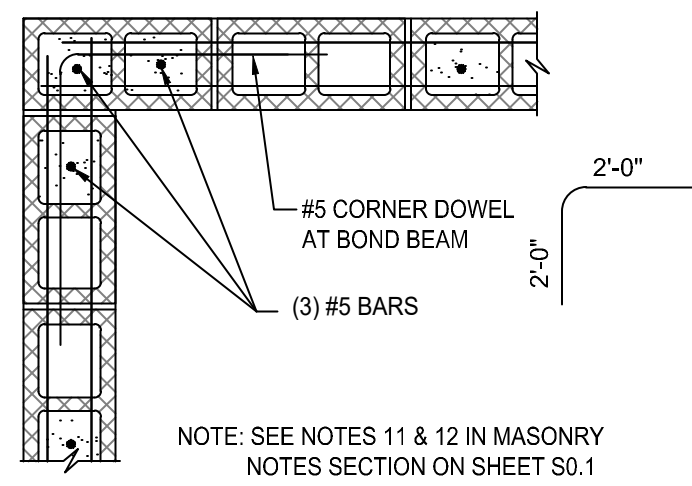
TYPICAL JAMB DETAIL



TYPICAL WALL END

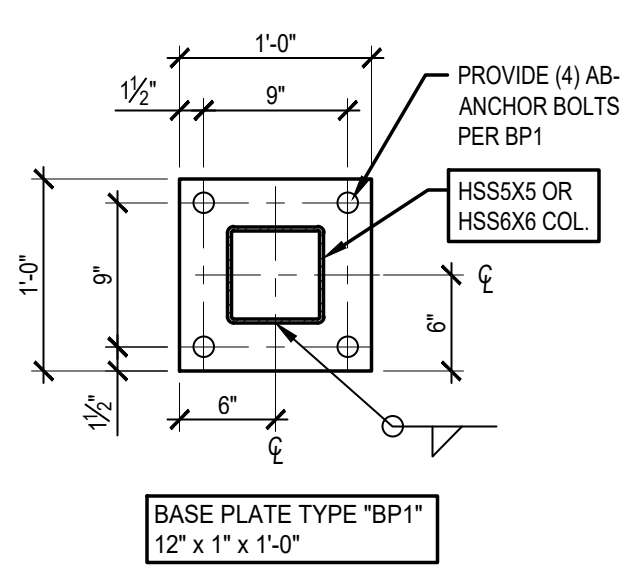
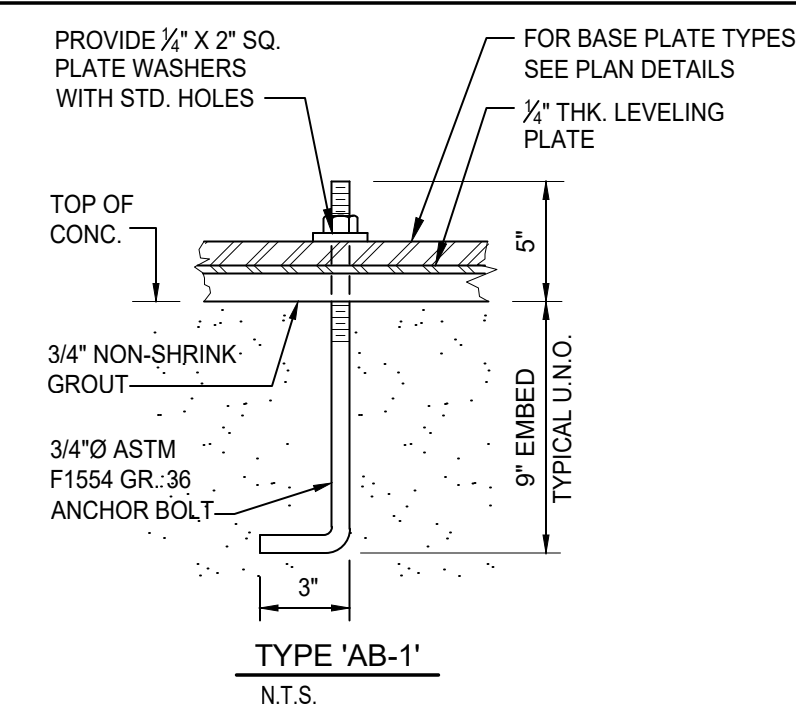


TYPICAL CMU LINTEL
4'-0" MAX. OPENING



TYPICAL BOND BEAM CORNER

ANCHOR BOLT DETAIL



BASE PLATE TYPE BP1
SCALE: 1"=1'-0"

NOT USED

BASE PLATE TYPE BP2
SCALE: 1"=1'-0"

NOT USED

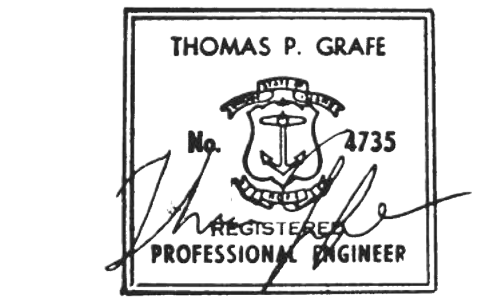
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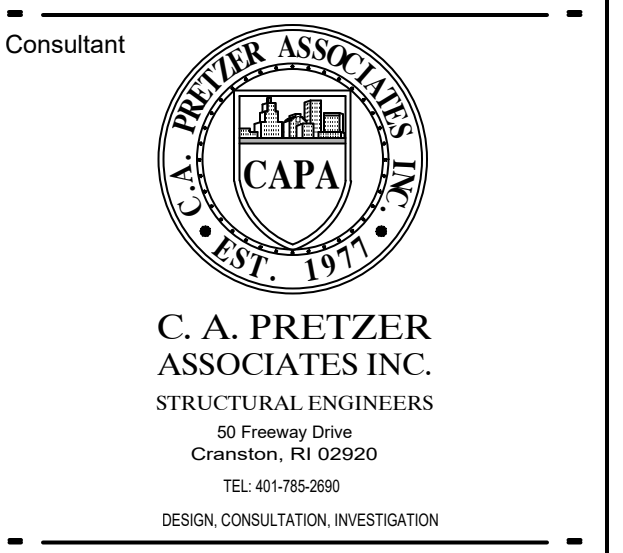
P1 DETAIL
SCALE: 1"=1'-0"

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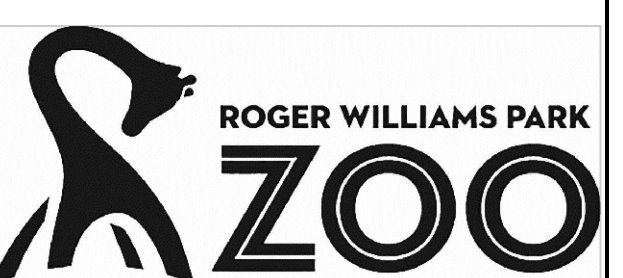
P2 DETAIL
SCALE: 1"=1'-0"



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SHEET TITLE

BASEPLATE, AND MASONRY DETAILS

DRAWN BY: JMF CAPA JOB #: 222834.20
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A-S2.1

SHEET: OF:

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NOT USED

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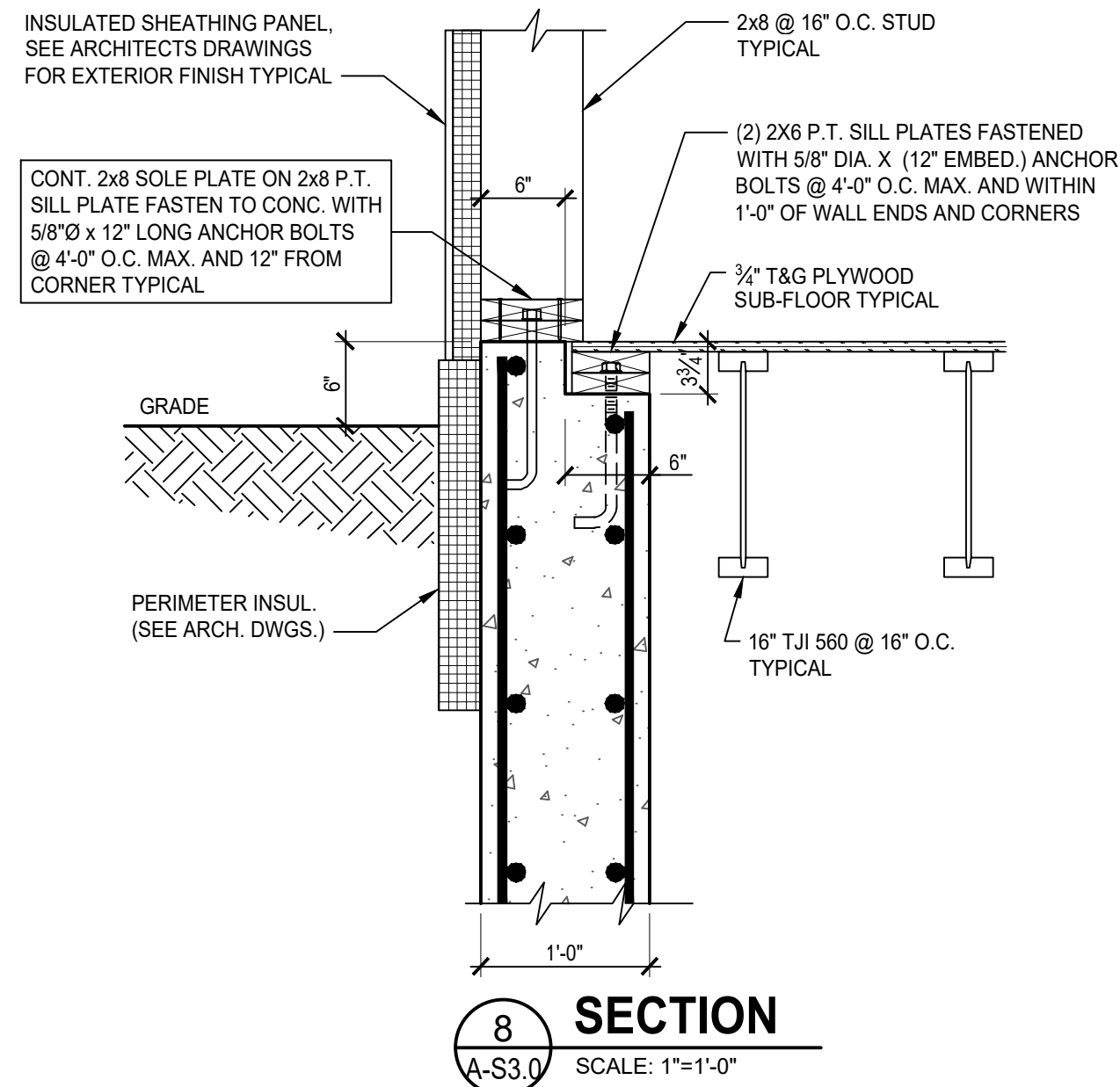
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2 SECTION
A-S3.0 SCALE: 1"=1'-0"

3 SECTION
A-S3.0 SCALE: 1"=1'-0"

4 SECTION
A-S3.0 SCALE: 1"=1'-0"

5 SECTION
A-S3.0 SCALE: 1"=1'-0"



NOT USED

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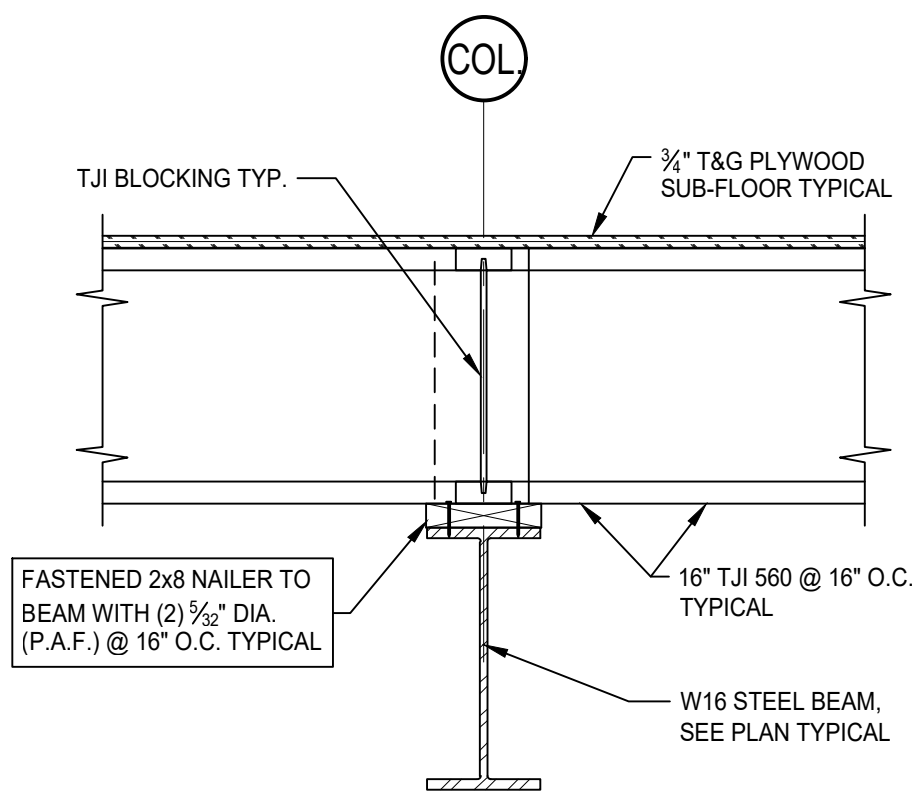
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7 SECTION
A-S3.0 SCALE: 1"=1'-0"

9 SECTION
A-S3.0 SCALE: 1"=1'-0"

10 SECTION
A-S3.0 SCALE: 1"=1'-0"



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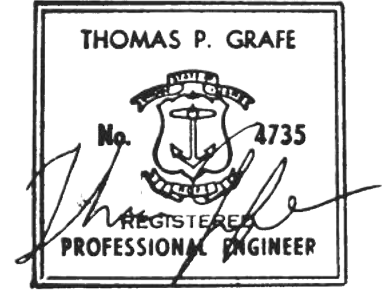
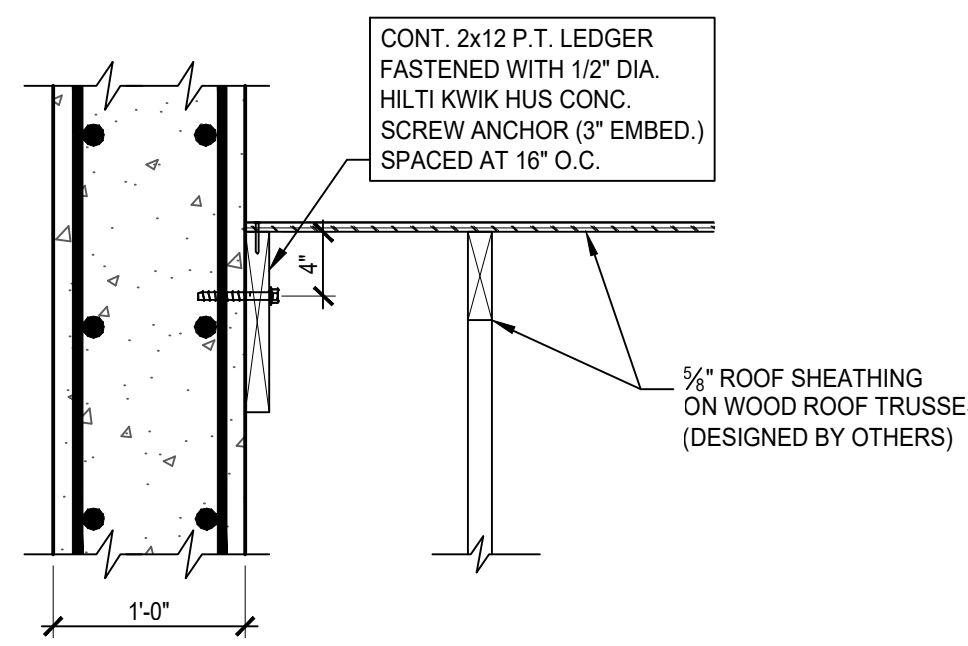
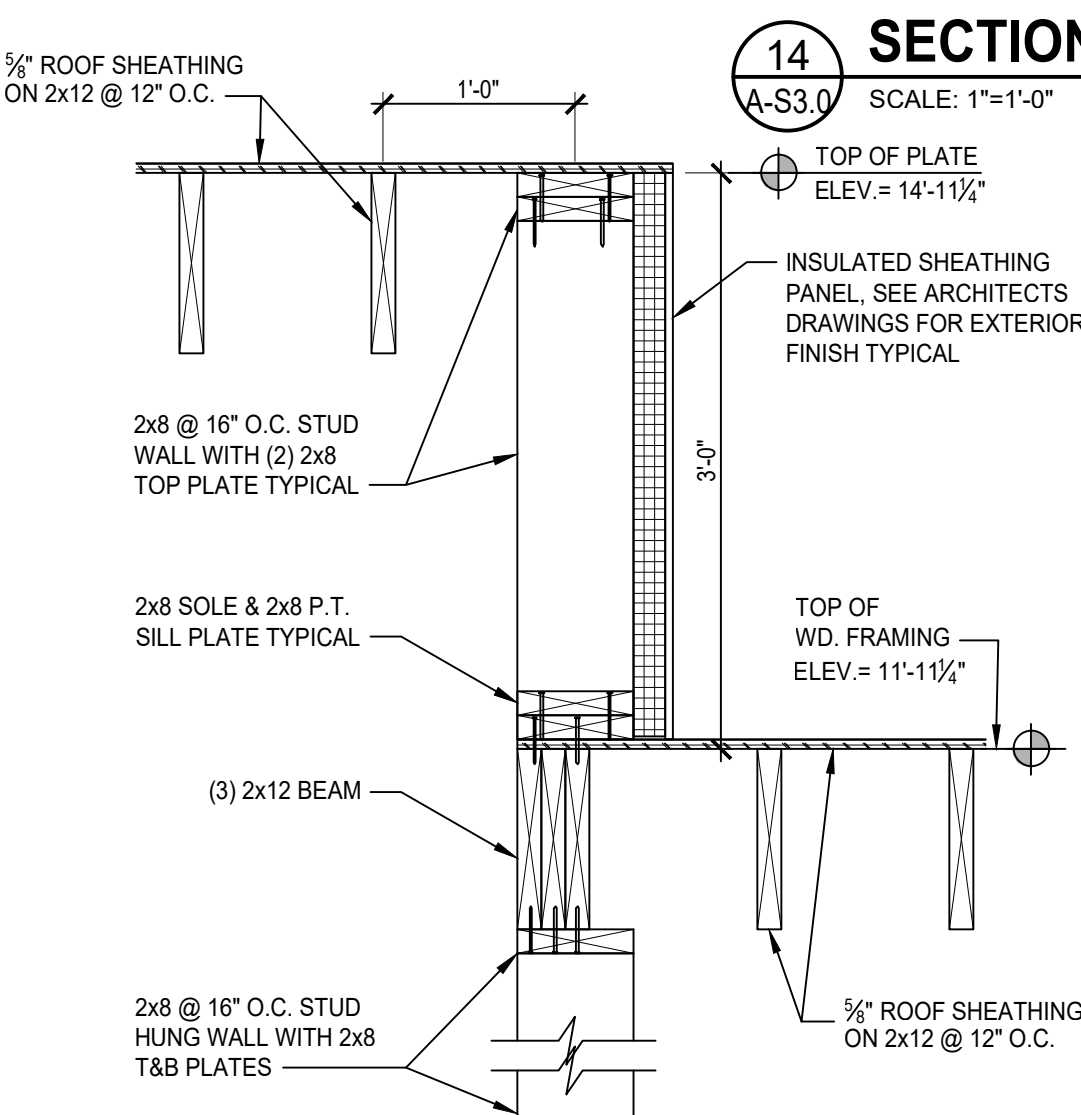
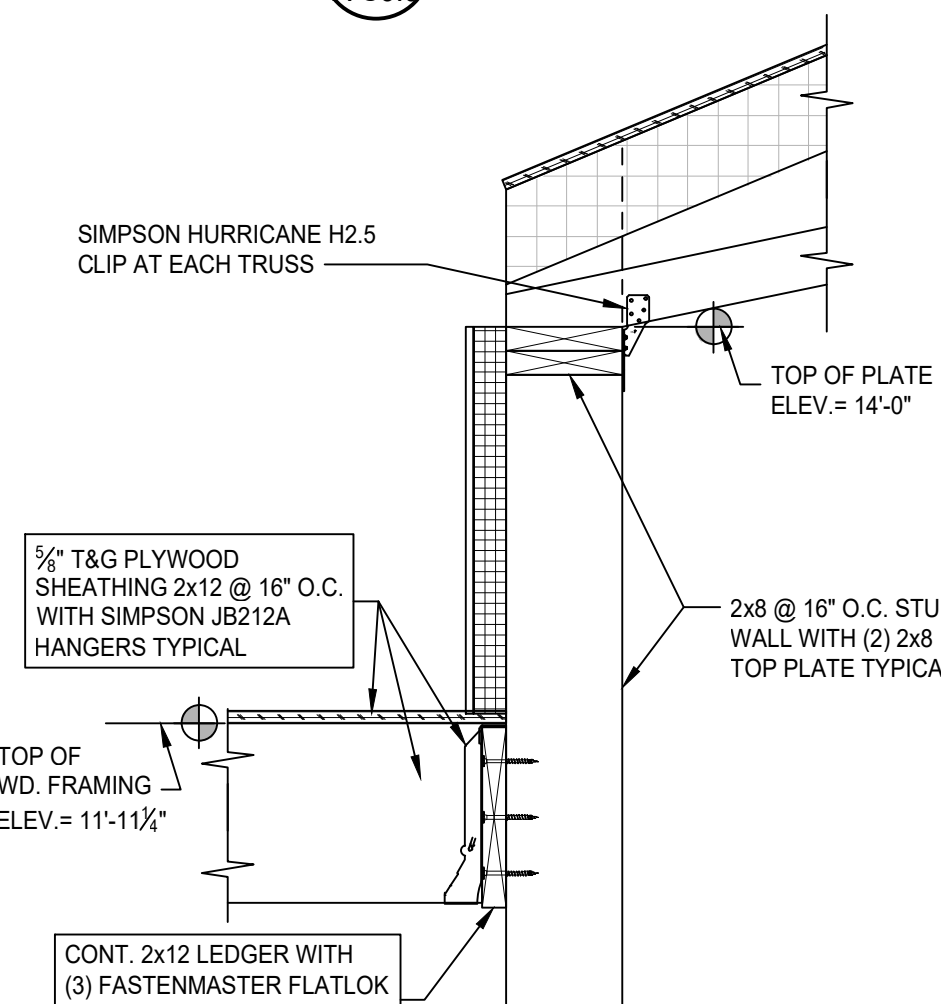
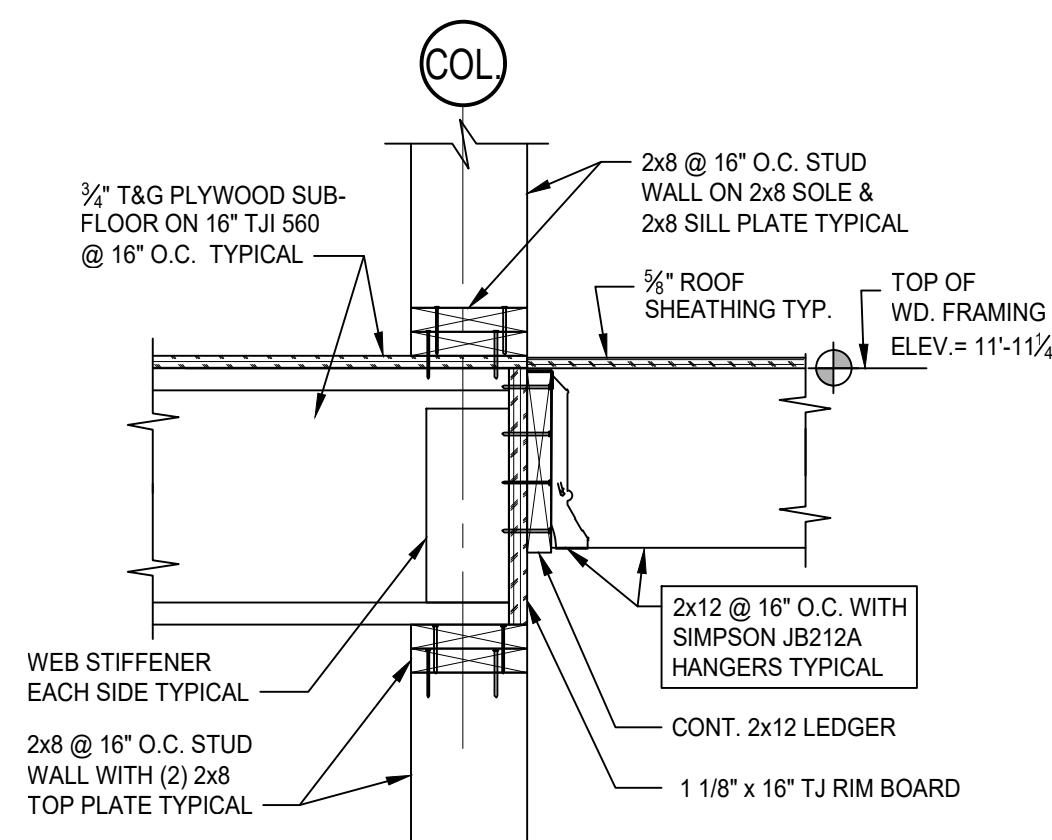
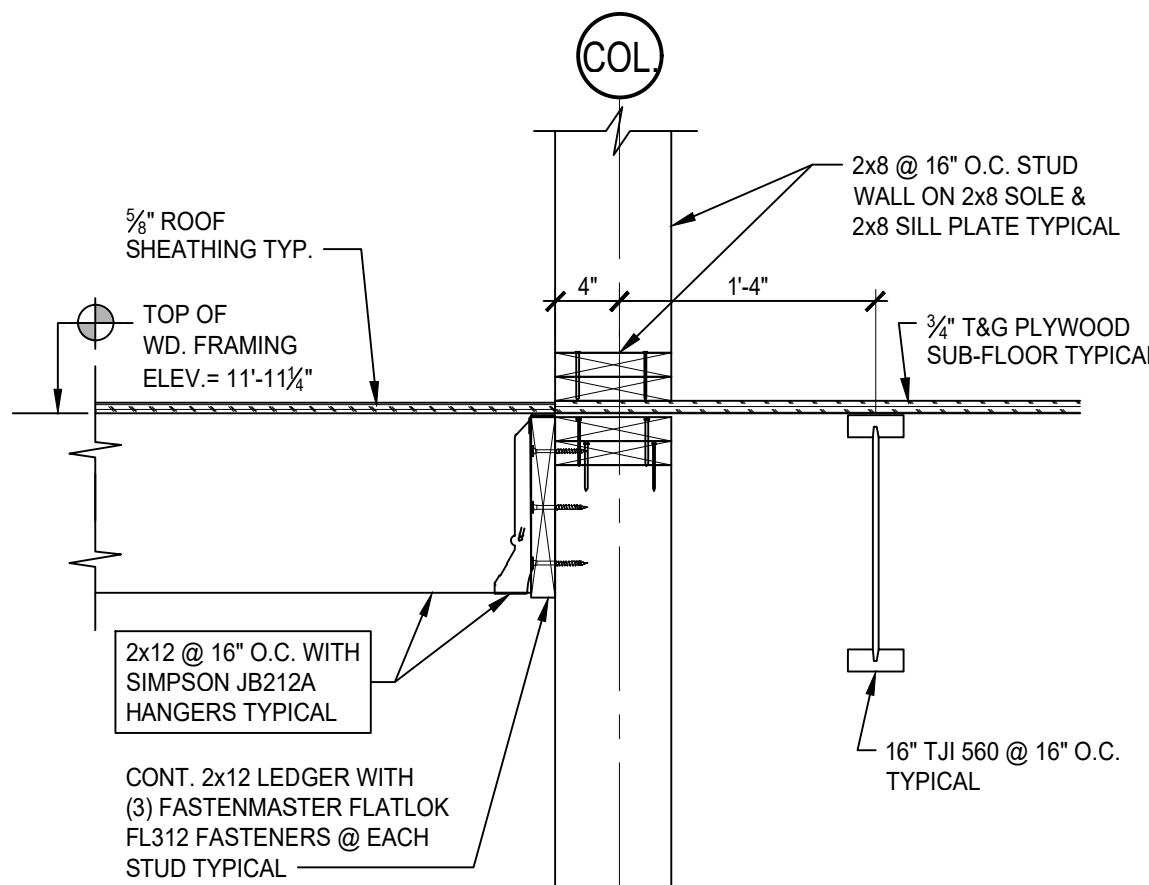
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12 SECTION
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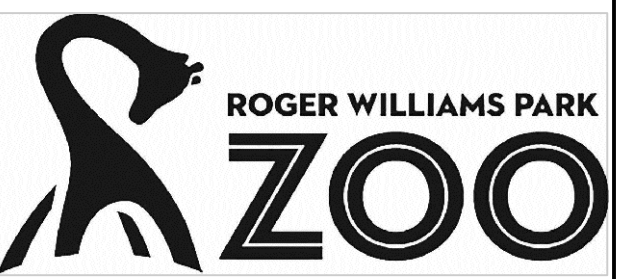
15 SECTION
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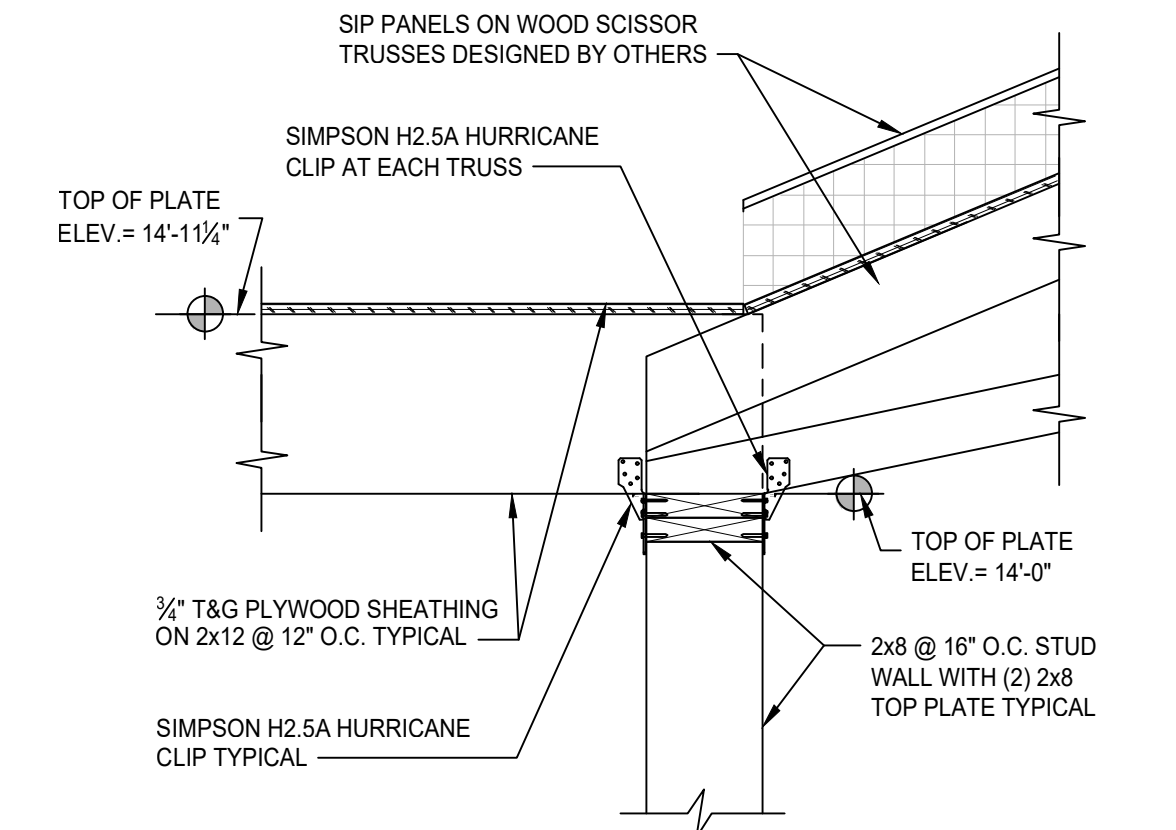
SHEET TITLE
STEEL FRAMING SECTIONS AND DETAILS

DRAWN BY: JMF CAPA JOB #: 222834.20
CHECKED BY: TPG DATE: APRIL 12, 2024

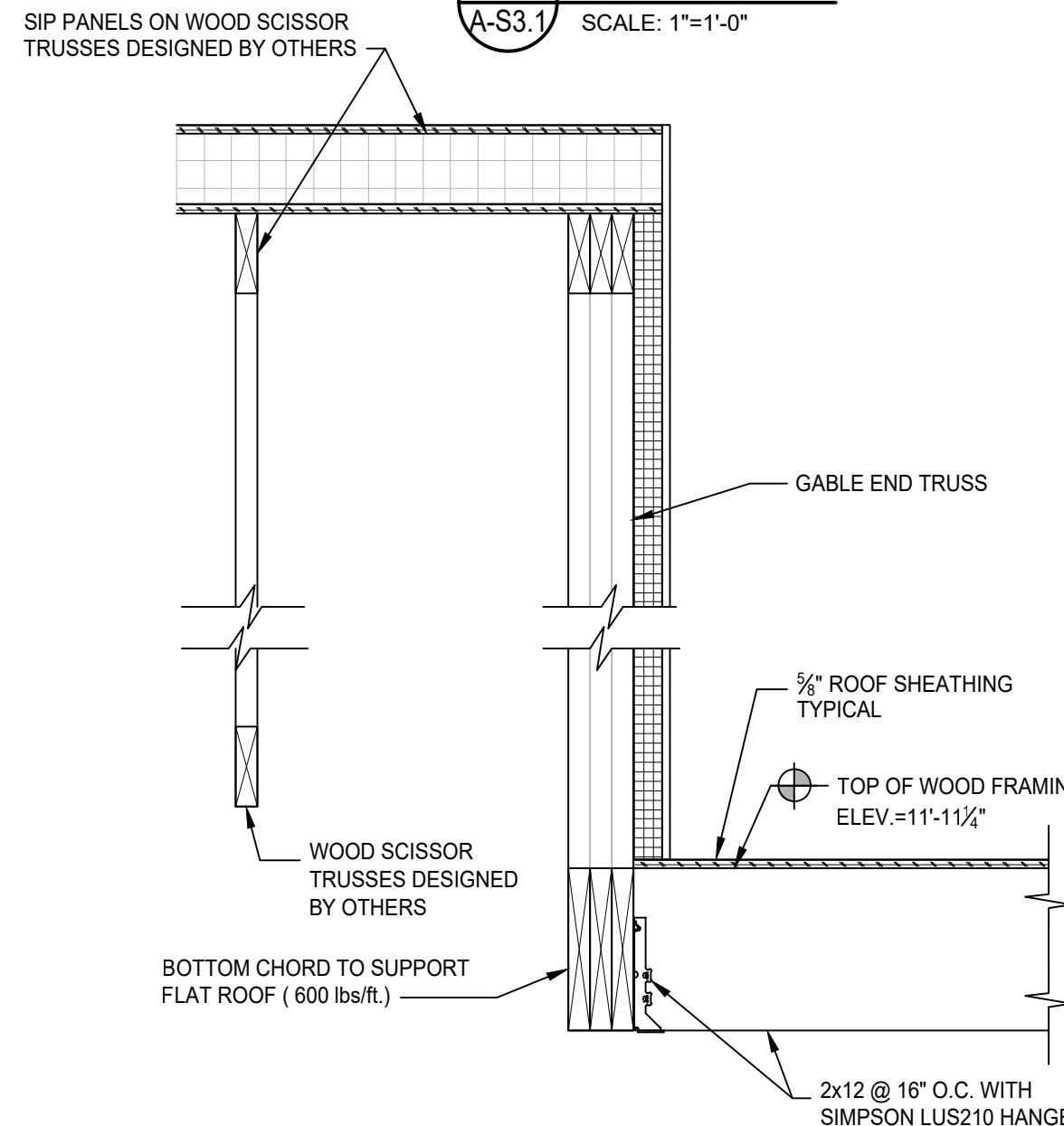
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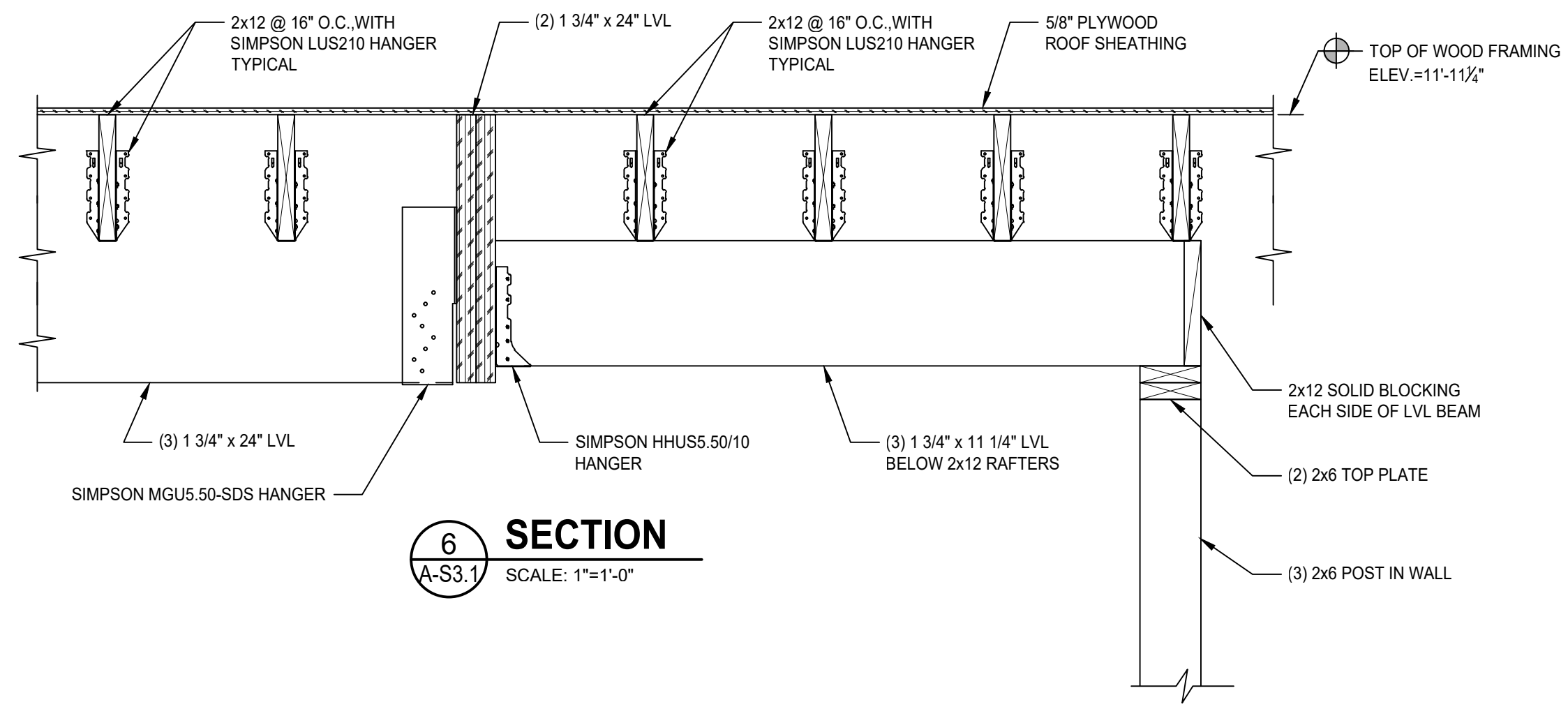
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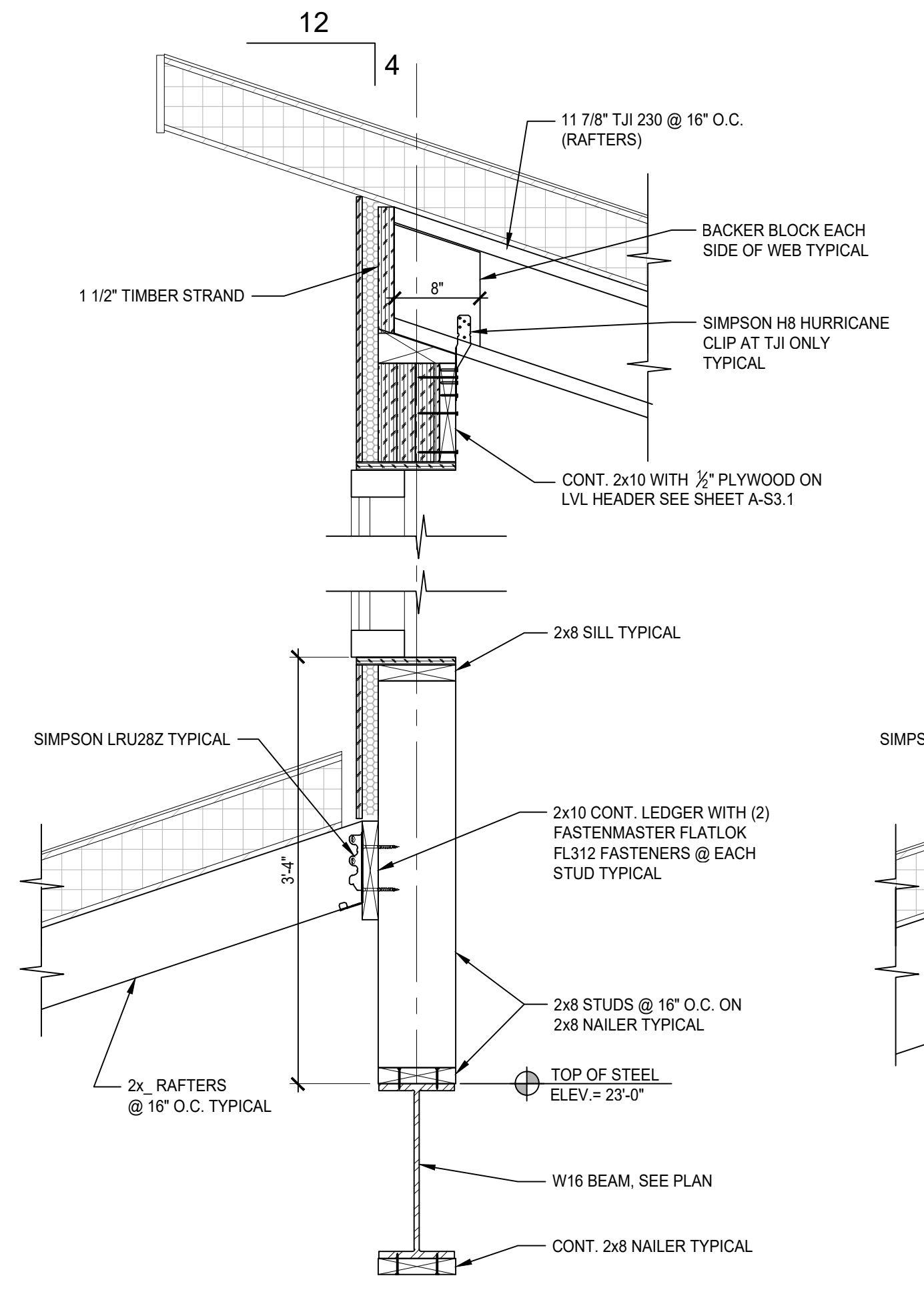
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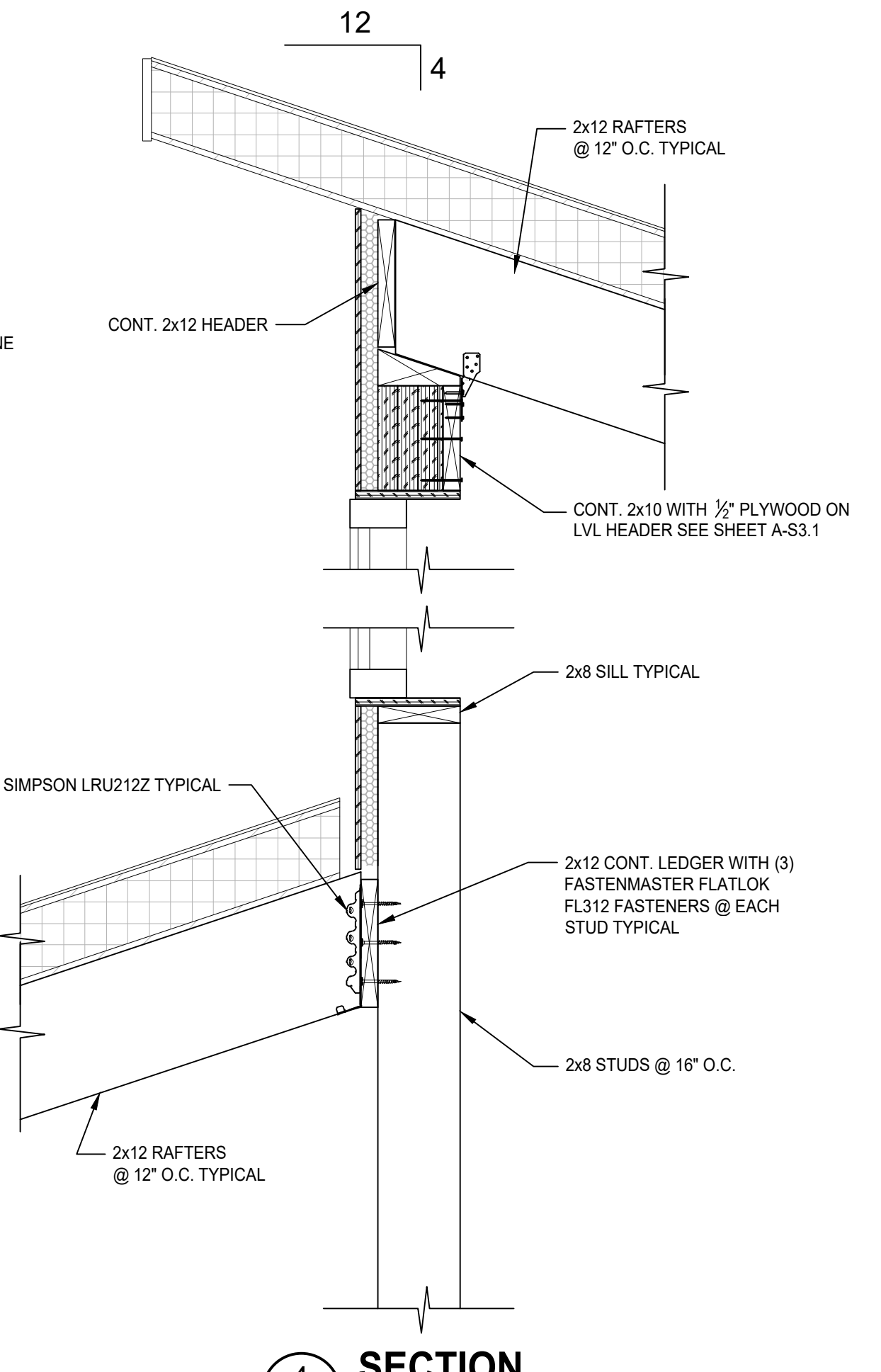
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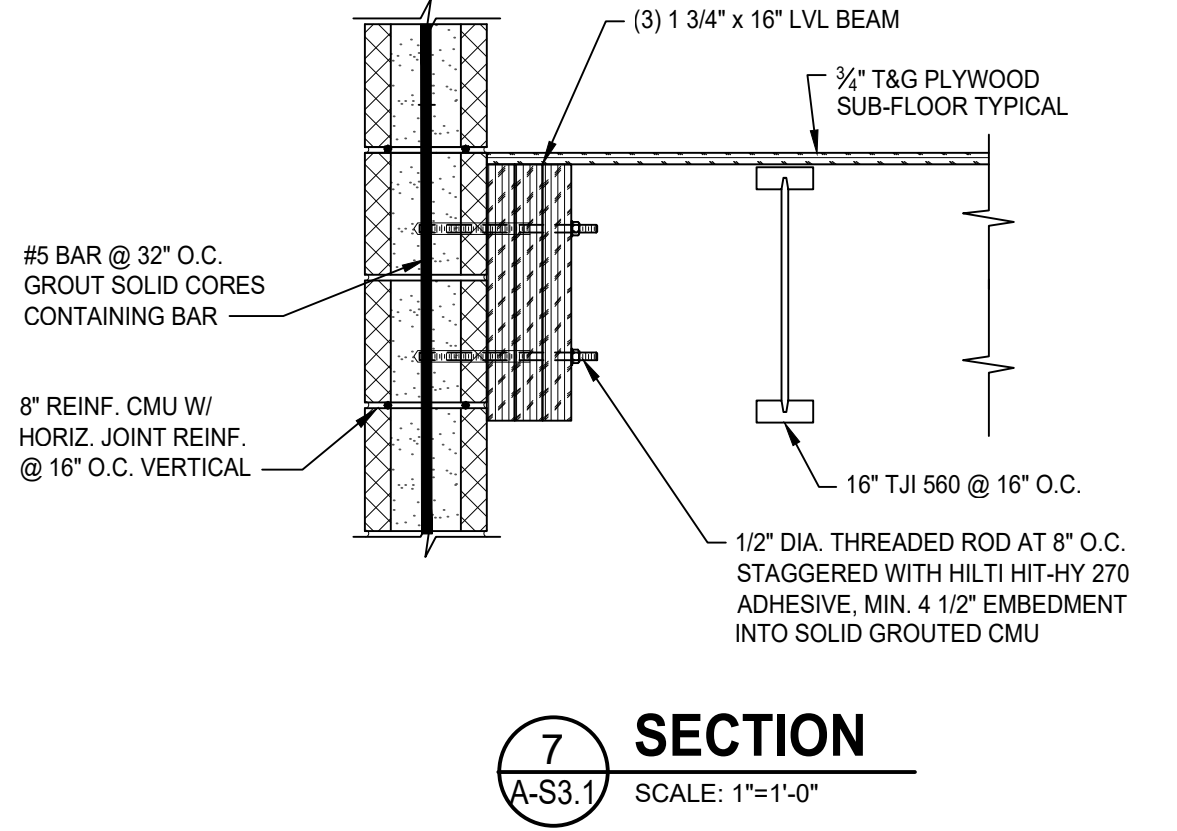
6 SECTION
A-S3.1 SCALE: 1"=1'-0"



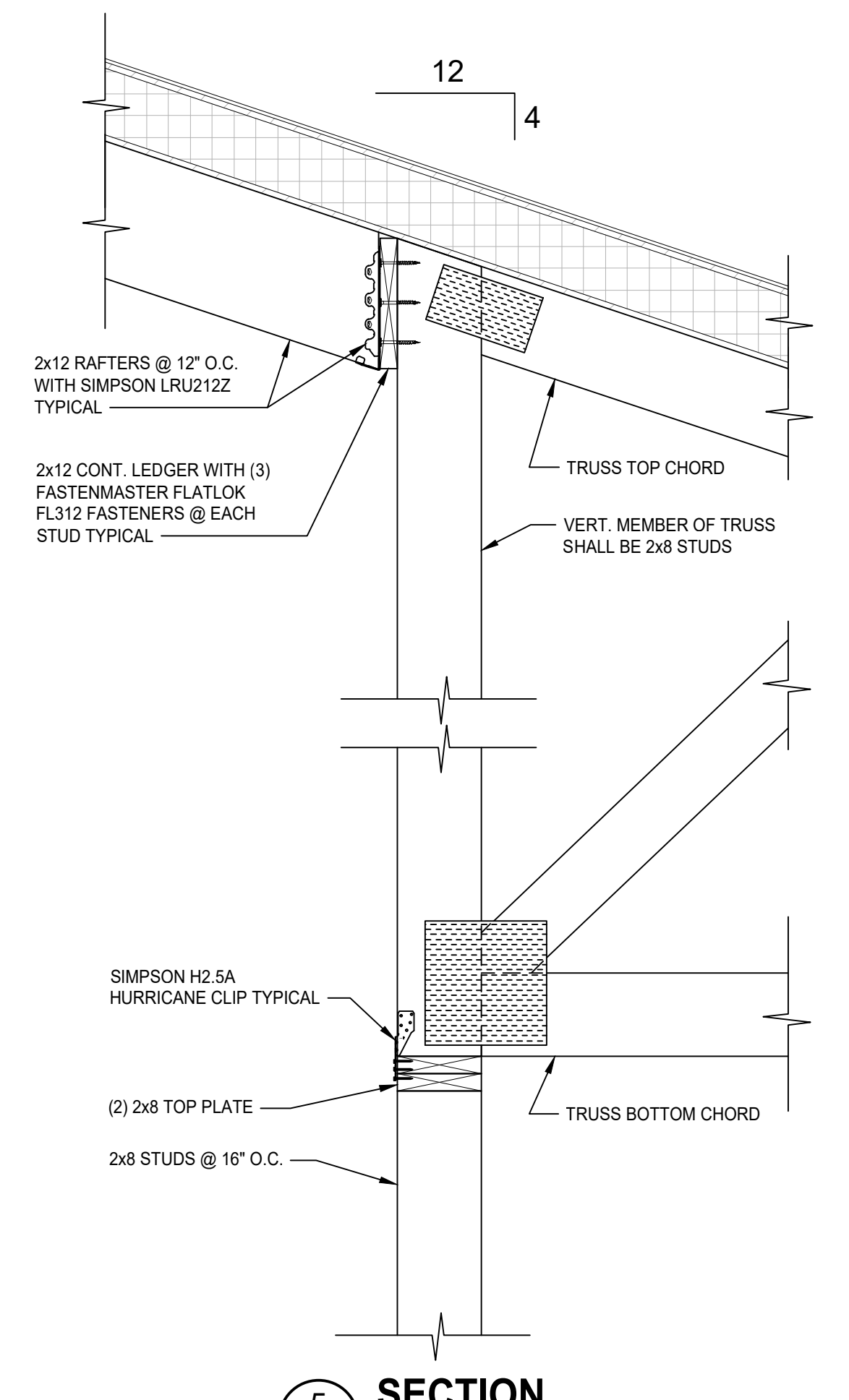
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A-S3.1 SCALE: 1"=1'-0"



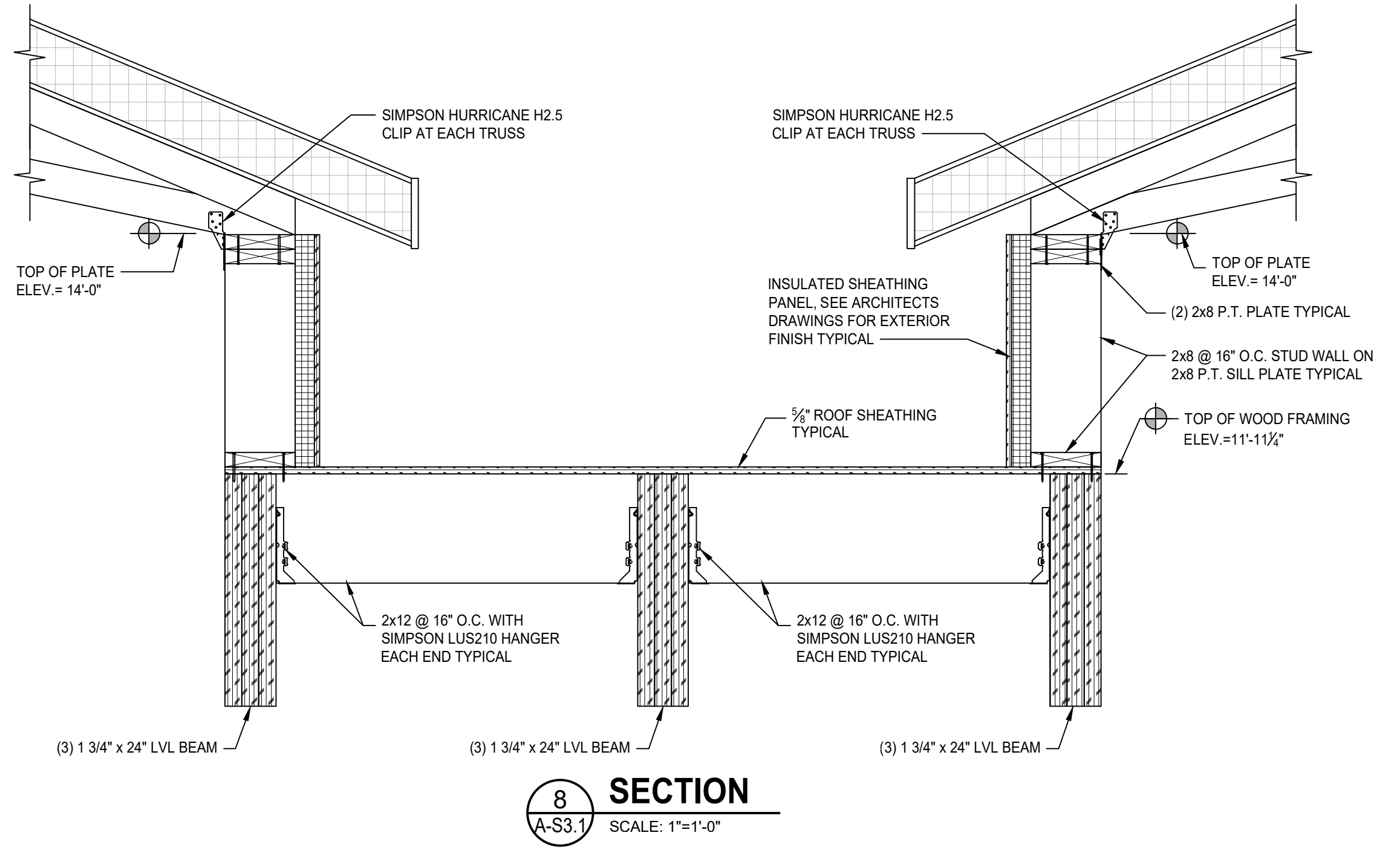
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A-S3.1 SCALE: 1"=1'-0"



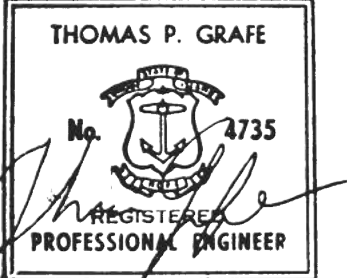
7 SECTION
A-S3.1 SCALE: 1"=1'-0"



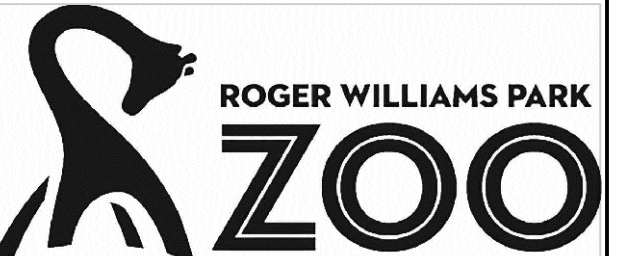
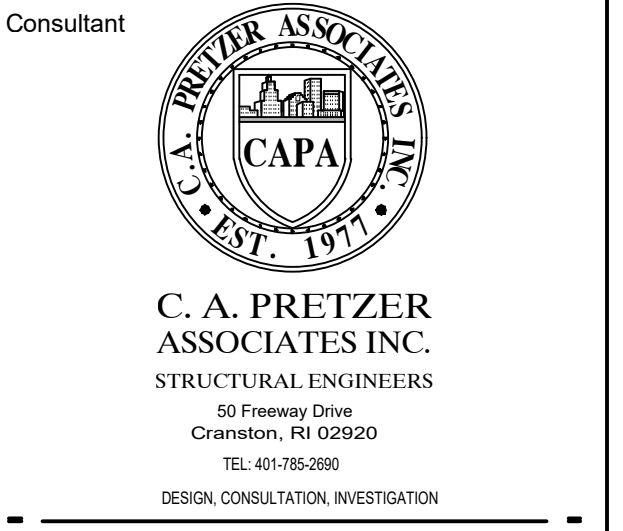
5 SECTION
A-S3.1 SCALE: 1"=1'-0"



8 SECTION
A-S3.1 SCALE: 1"=1'-0"



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APRIL 18, 2024

Revision Schedule	
Revision Number	Revision Date

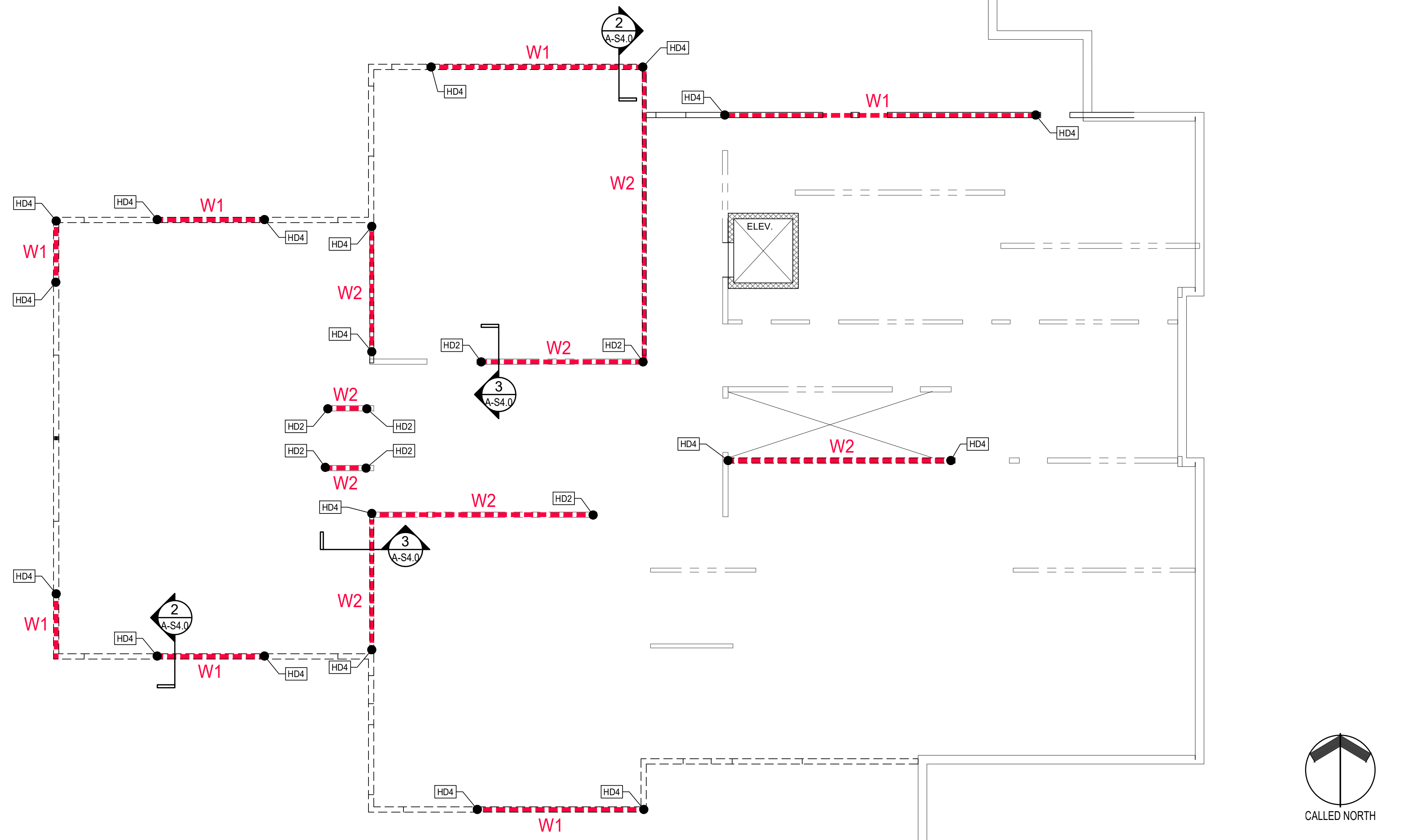
SHEET TITLE
SECTIONS AND DETAILS

DRAWN BY: JMF CAPA JOB #: 222834.20
CHECKED BY: TPG DATE: APRIL 12, 2024

A-S3.1

SHEET: OF:

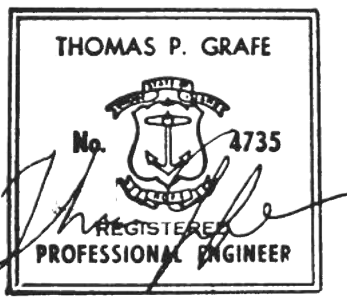
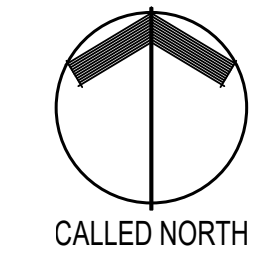
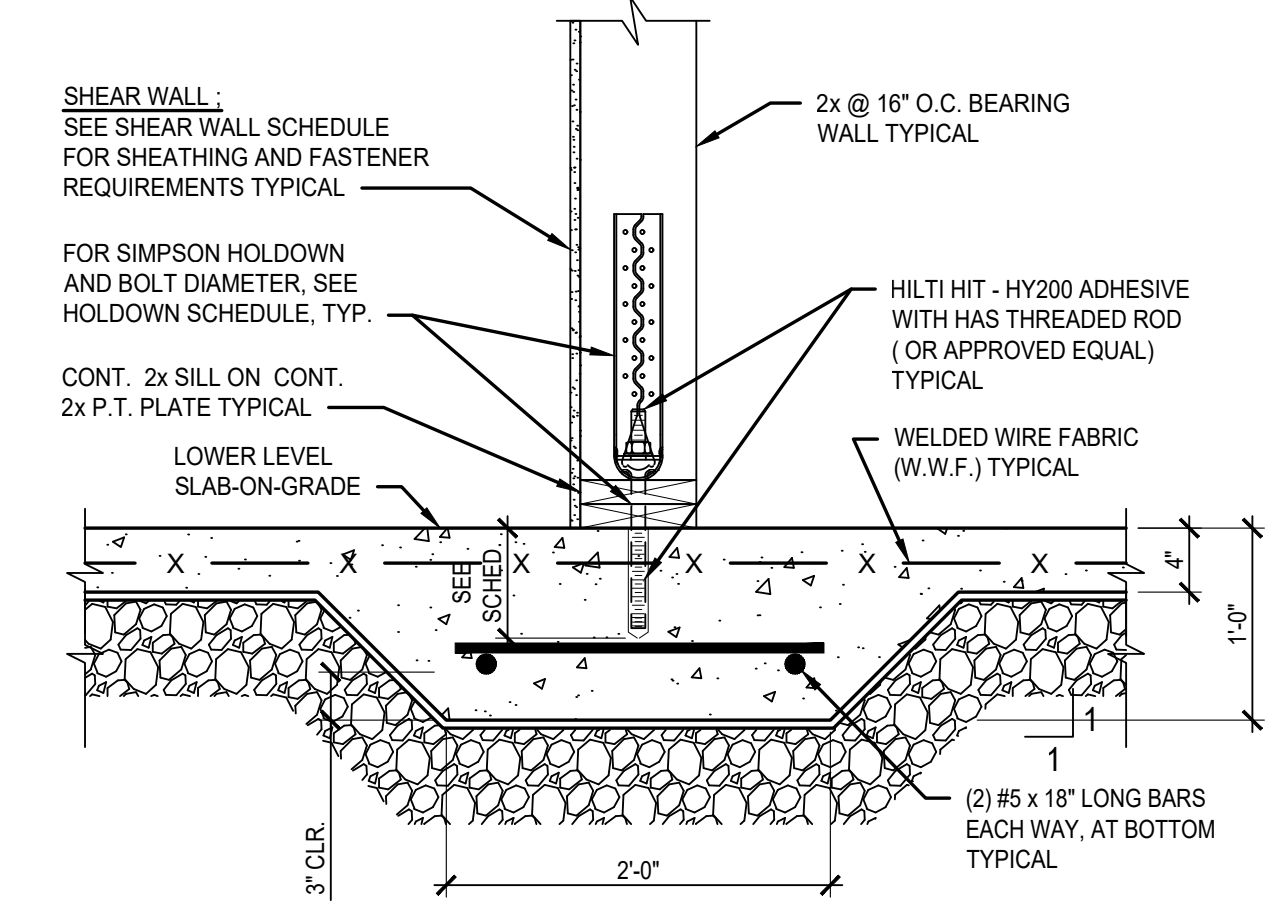
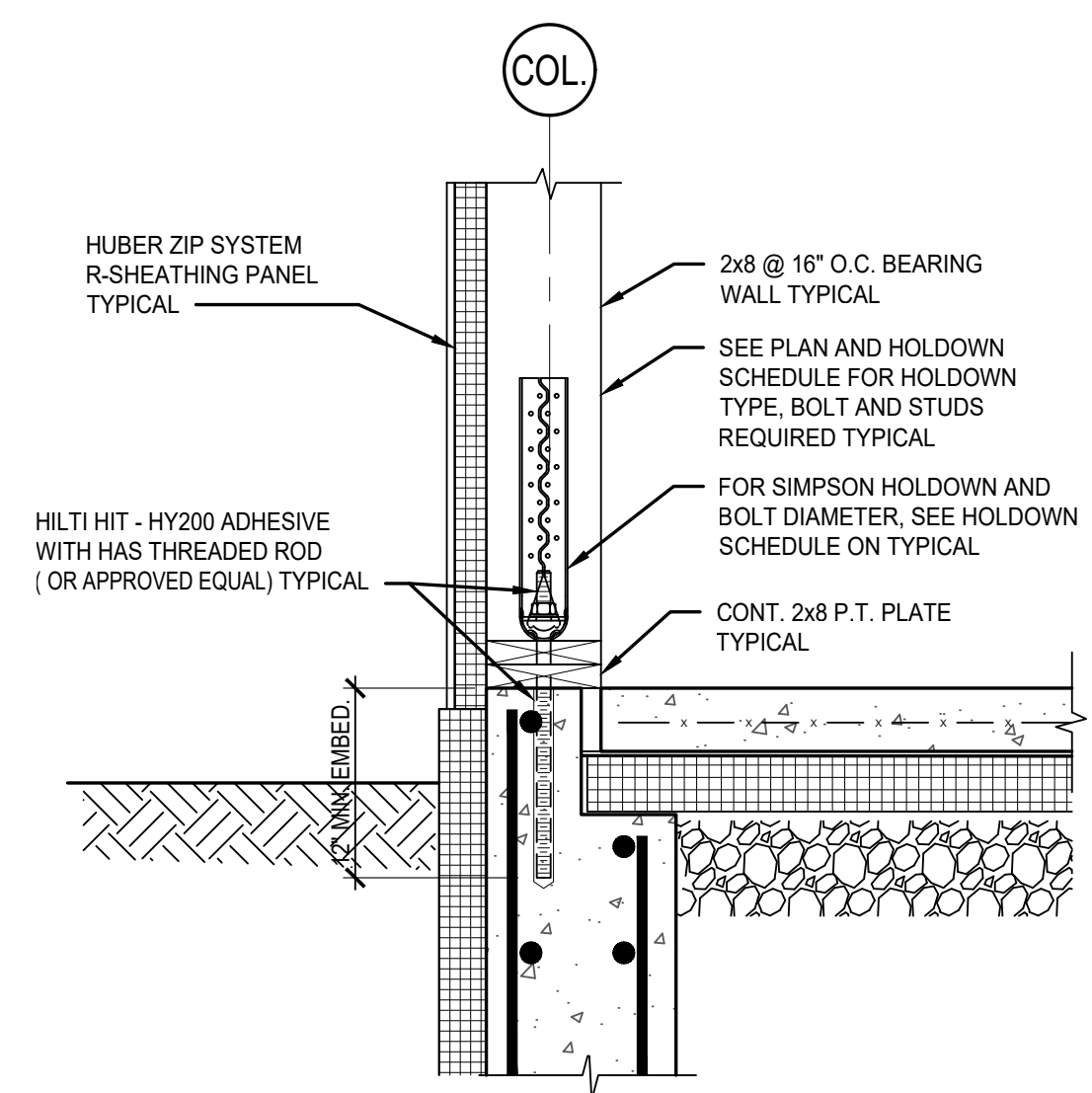
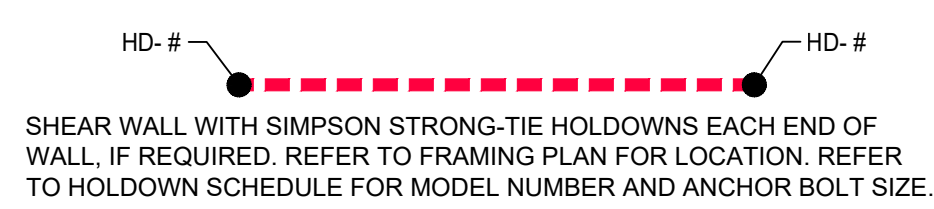
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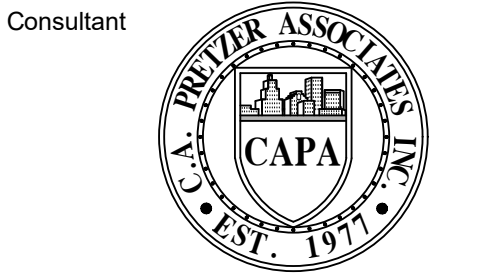
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A-S4.0
LOWER LEVEL SHEARWALL PLAN
SCALE: 1/8"=1'-0"

SHEAR WALL SCHEDULE		
NAME	DESCRIPTION	FASTENER REQUIREMENTS
W1	HUBER ZIPWALL SYSTEM R-12 (2 1/2" THICK)	0.131" DIA. SHANK NAILS FOR 1 1/2" PENETRATION INTO STUD @ 3" O.C. ALONG PANEL EDGES AND 12" O.C. AT PANEL FIELD. BLOCK ALL PANEL EDGES.
W2	5/8" THK. GYP-BOARD ON EACH SIDE	#6 DRYWALL SCREWS @ 8" O.C. ALONG PANEL EDGES AND 12" O.C. AT PANEL FIELD. BLOCK ALL PANEL EDGES.
W3	EXTERIOR SIDE: HUBER ZIPWALL SYSTEM R-12 (2 1/2" THK.) INTERIOR SIDE: 15/32" PLYWOOD SHEATHING	EXTERIOR SIDE: 0.131" DIA. SHANK NAILS FOR 1 1/2" PENETRATION INTO STUD @ 3" O.C. ALONG PANEL EDGES AND 12" O.C. AT PANEL FIELD. BLOCK ALL PANEL EDGES. INTERIOR SIDE: 10d NAILS @ 3" O.C. ALONG PANEL EDGES AND 12" O.C. AT PANEL FIELD. BLOCK ALL PANEL EDGES.
W4	5/8" THK. GYP-BOARD ON ONE SIDE	#6 DRYWALL SCREWS @ 8" O.C. ALONG PANEL EDGES AND 12" O.C. AT PANEL FIELD. BLOCK ALL PANEL EDGES.

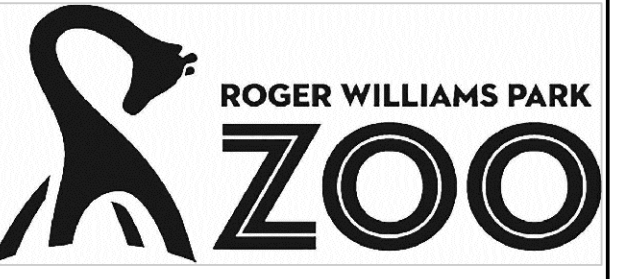
HOLDOWN SCHEDULE				
NAME	SIMPSON STRONG-TIE HOLDOWN MODEL NO.	ANCHOR BOLT DIA. (IN.)	No. OF STUDS	EMBED. DEPTH
HD2	HDU2-SDS2.5	5/8"	2	4"
HD4	HDU4-SDS2.5	5/8"	2	6"
HD5	HDU5-SDS2.5	5/8"	2	6"
HD11	HDU11-SDS2.5	1"	3	9"
HD14	HDU14-SDS2.5	1"	3	9"



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TEL: 401-985-2890
DESIGN, CONSULTATION, INVESTIGATION



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Revision Schedule	
Revision Number	Revision Date

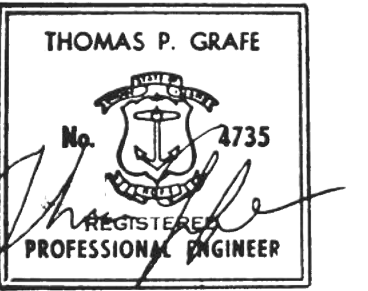
SHEET TITLE
LOWER LEVEL SHEAR WALL PLAN

DRAWN BY: JMF CAPA JOB #: 222834.20
CHECKED BY: TPG DATE: APRIL 12, 2024

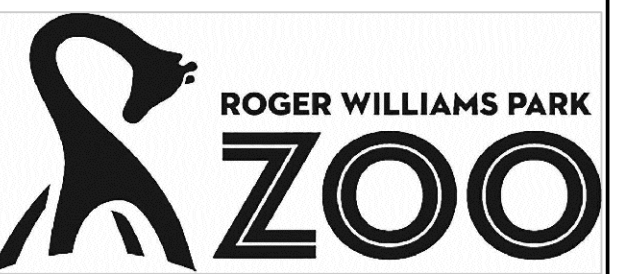
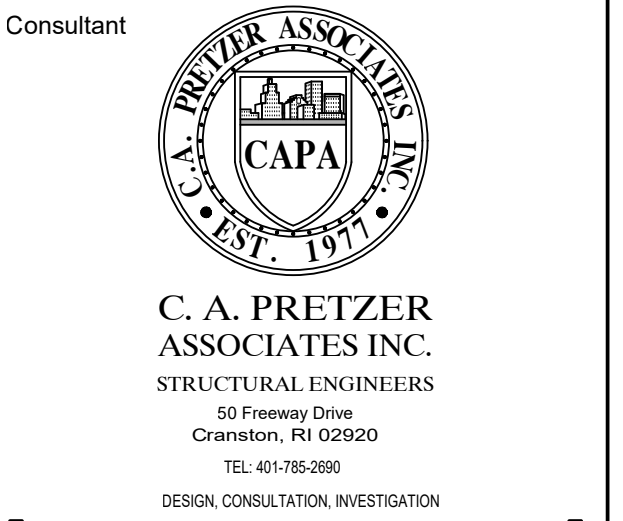
A-S4.0

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SHEET TITLE

SHEAR WALL PLANS

DRAWN BY: JMF CAPA JOB #: 222834.20

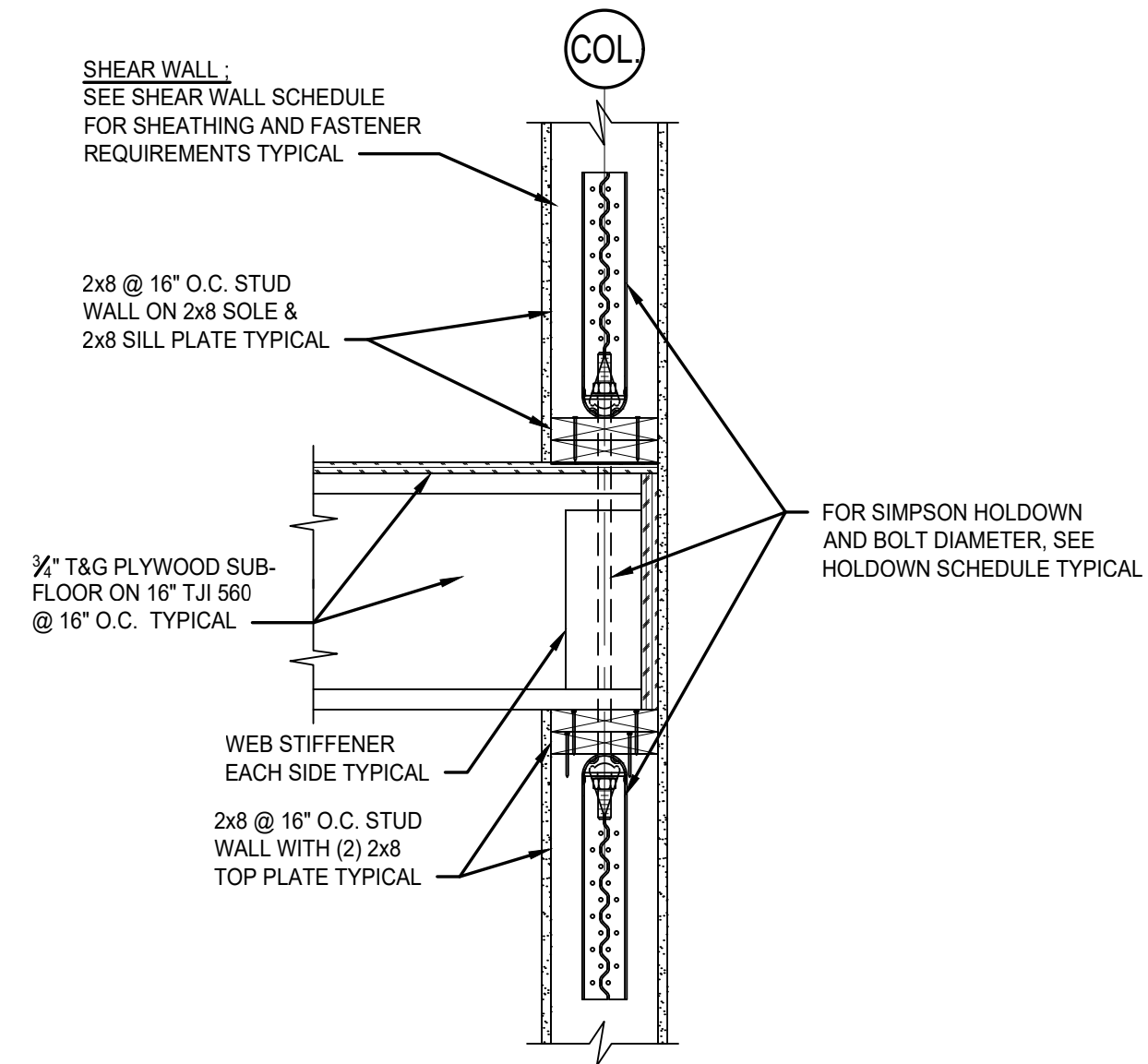
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A-S4.1

SHEET: OF:

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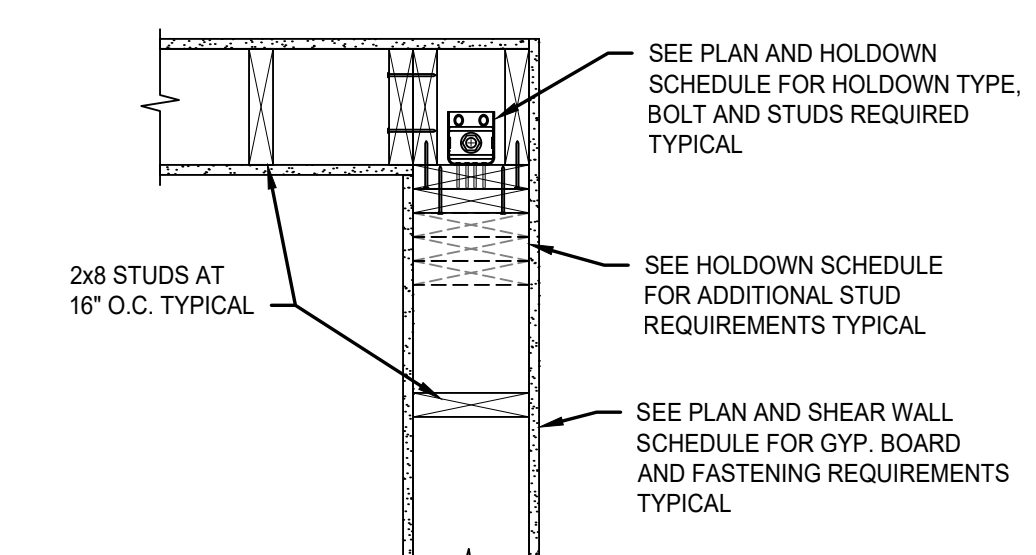
2 SHEAR WALL HOLD DOWN AT UPPER LEVEL STL. BEAM
 SCALE: 1"=1'-0"



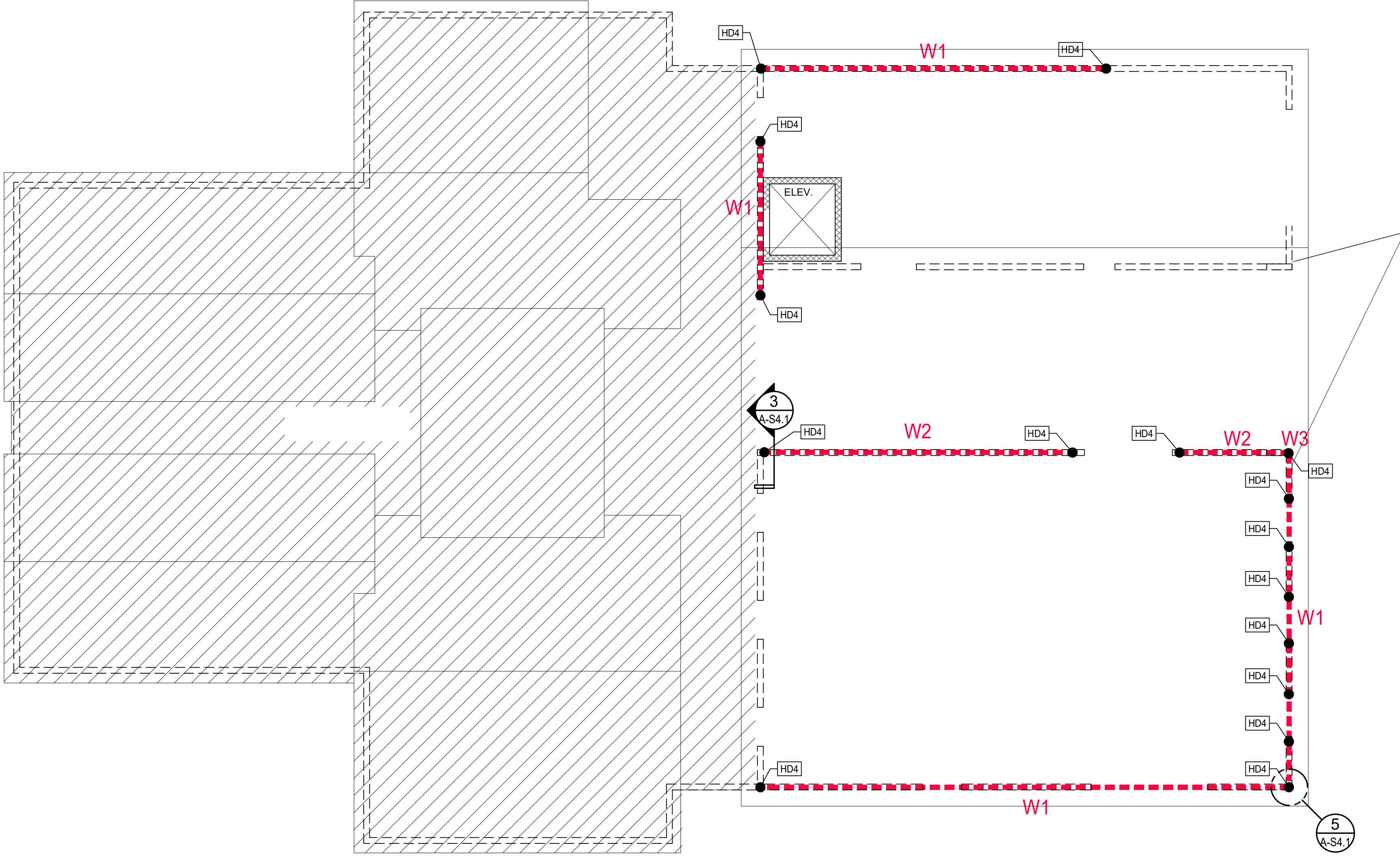
3 SHEAR WALL HOLD DOWN AT UPPER LEVEL
 SCALE: 1"=1'-0"

NOT USED

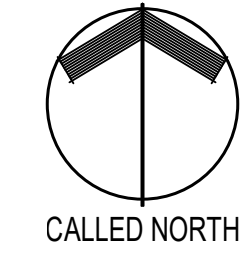
4 SHEAR WALL HOLD DOWN PLAN AT CHASE WALL INTERSECTION
 SCALE: 1"=1'-0"

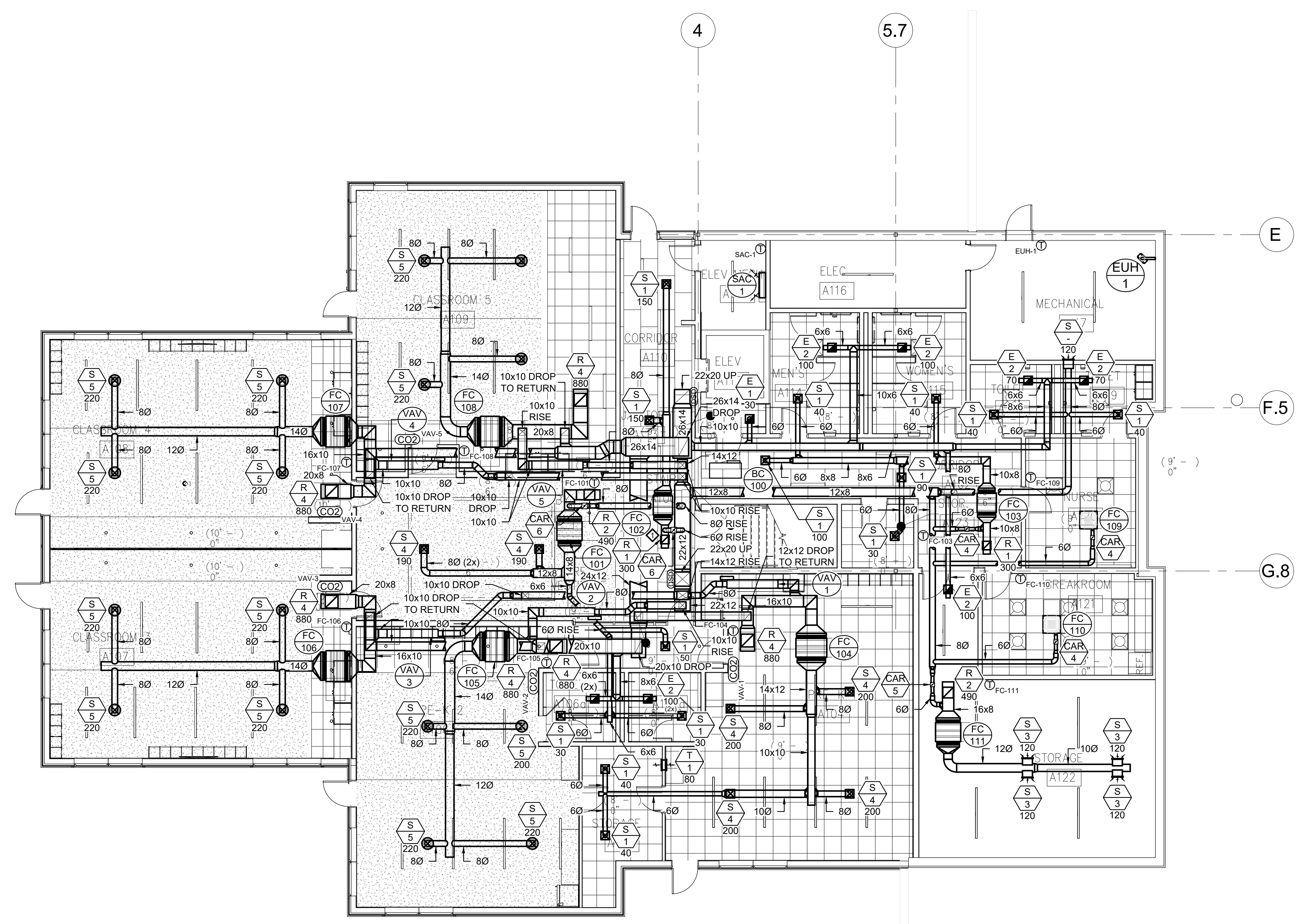


5 SHEAR WALL HOLD DOWN AT 2x8 WALL CORNER
 SCALE: 1"=1'-0"



1 UPPER LEVEL SHEARWALL PLAN
 SCALE: 1/8"=1'-0"





KEYED MECHANICAL NOTE:
 ◊ THERMOSTAT NOT SHOWN FOR CLARITY. INSTALL ON WALL ADJACENT TO UNIT RETURN GRILLE. COORDINATE FINAL LOCATION OF THERMOSTAT WITH ARCH AS REQUIRED.

MECHANICAL NOTES:
 1. FINAL LOCATION OF THERMOSTATS DETERMINED BY OWNER. COORDINATE WITH ARCH. AND MC AS REQUIRED.
 2. CONTRACTOR TO COORDINATE DUCT ROUTING AND DIFFUSER LOCATION WITH NEW LIGHTING IN FIELD. COORDINATE WITH E.C. AS REQUIRED.

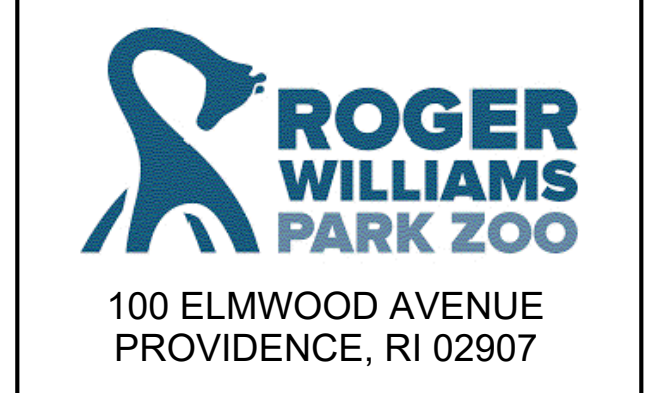


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Revision Schedule	
Revision Number	Revision Date

Issued for Bid
 05/01/2024

SHEET TITLE
MECHANICAL
EDUCATION
CENTER
LOWER LEVEL
PLAN

DRAWN BY: MFM/AJV JOB NUMBER: 18050
 CHECKED BY: WTM DATE: 04/18/2024

A-M1.1

SHEET: OF:

1
A-M1.1
EDUCATION CENTER - LOWER LEVEL PLAN
 1/8" = 1'-0"



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Revision Schedule

Revision Number	Revision Date

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05/01/2024

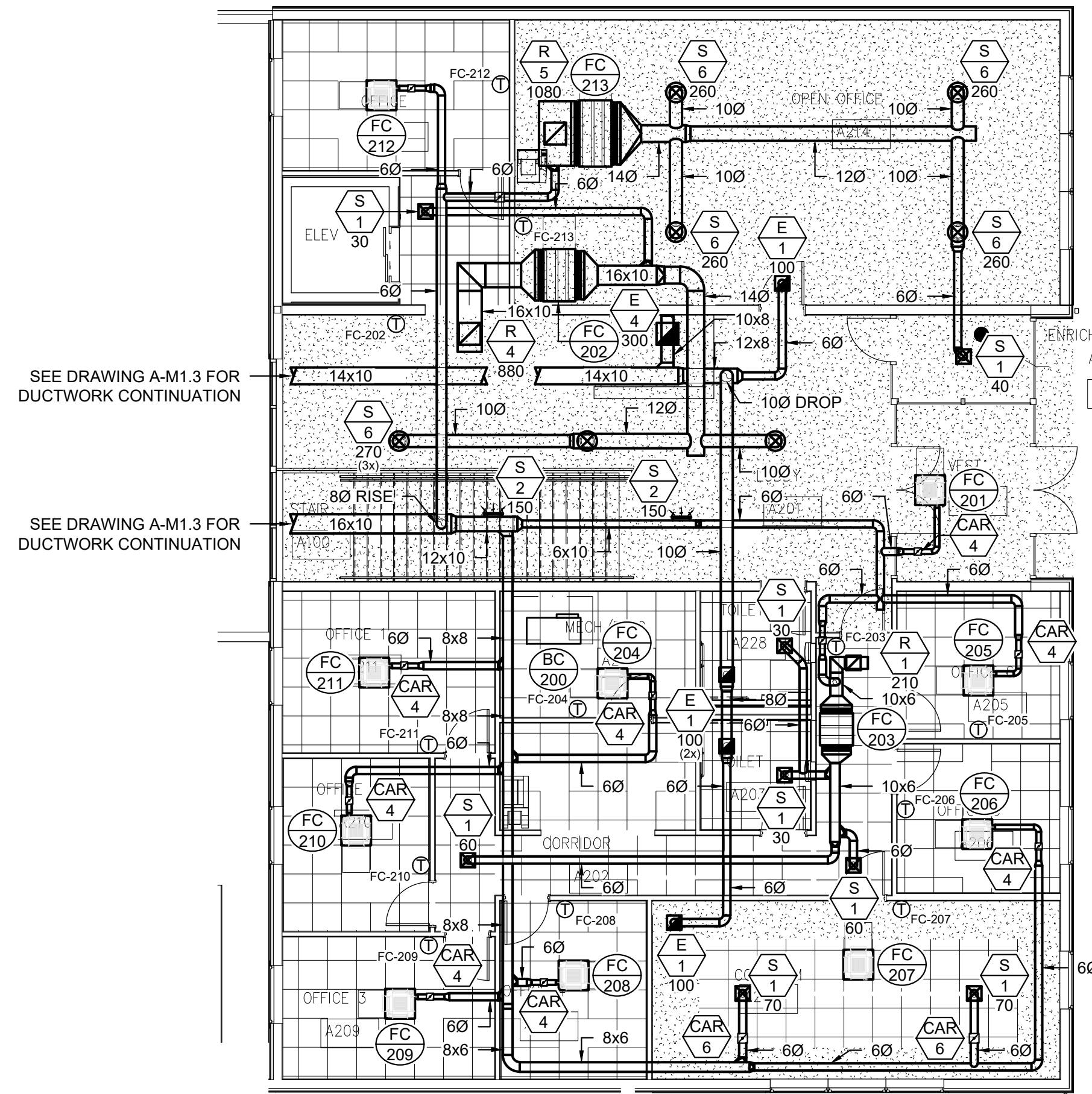
SHEET TITLE
**MECHANICAL
EDUCATION
CENTER
UPPER LEVEL
PLAN**

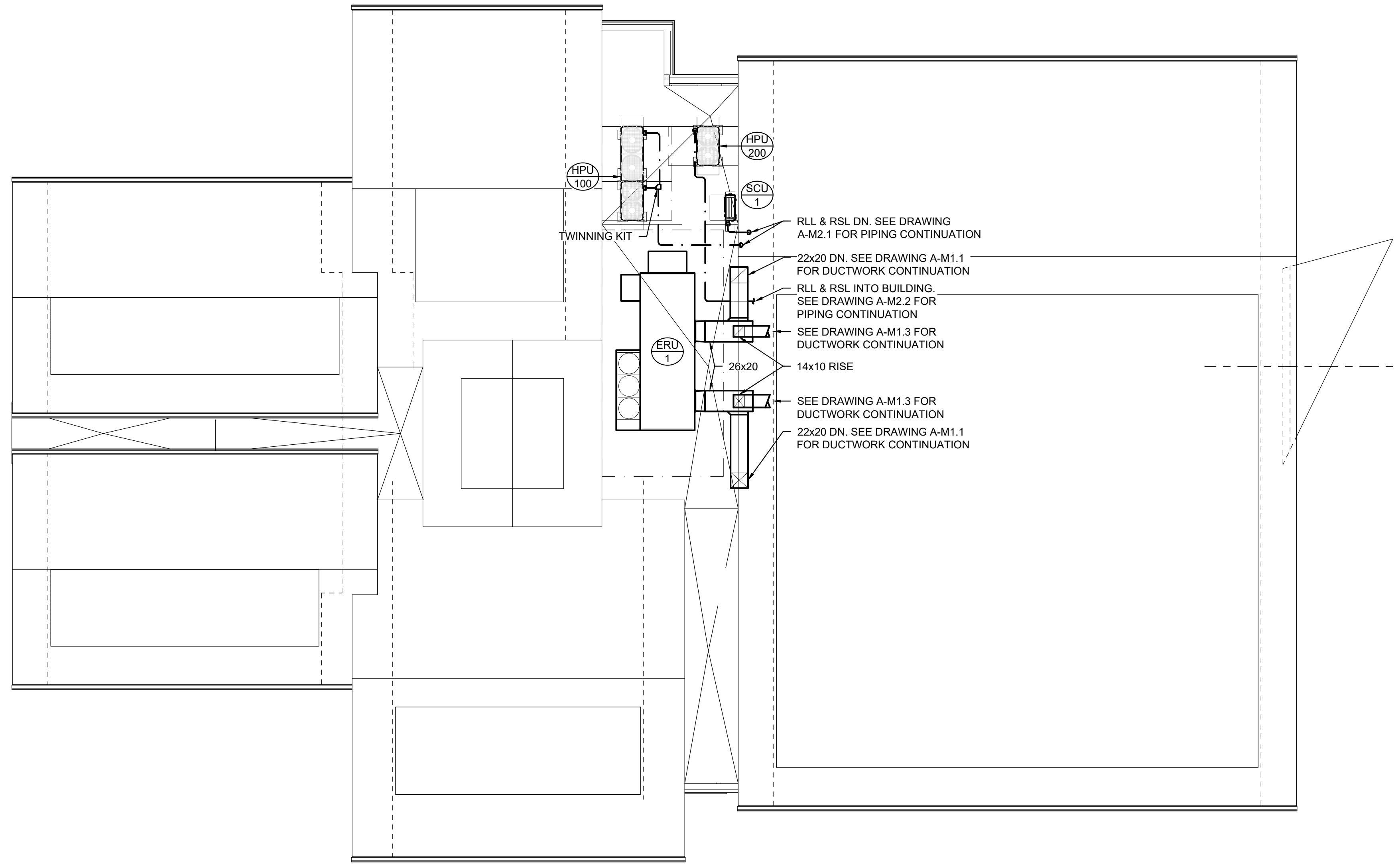
DRAWN BY: MFM/AJV JOB NUMBER: 18050

CHECKED BY: WTM DATE: 04/18/2024

A-M1.2

SHEET: OF:





MINIMUM CLEARANCE NOTES:

- ALL MECHANICAL EQUIPMENT INSTALLED ON ROOF MUST MAINTAIN A MINIMUM OF 10'-0" FROM ROOF EDGE.
- ALL EXHAUST TERMINATIONS MUST MAINTAIN A MINIMUM OF 10'-0" HORIZONTAL DISTANCE FROM ALL FA INTAKES AND OPENINGS.

1 EDUCATION BUILDING - ROOF PLAN
 A-M1.3 1/8" = 1'-0"



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Revision Number	Revision Date

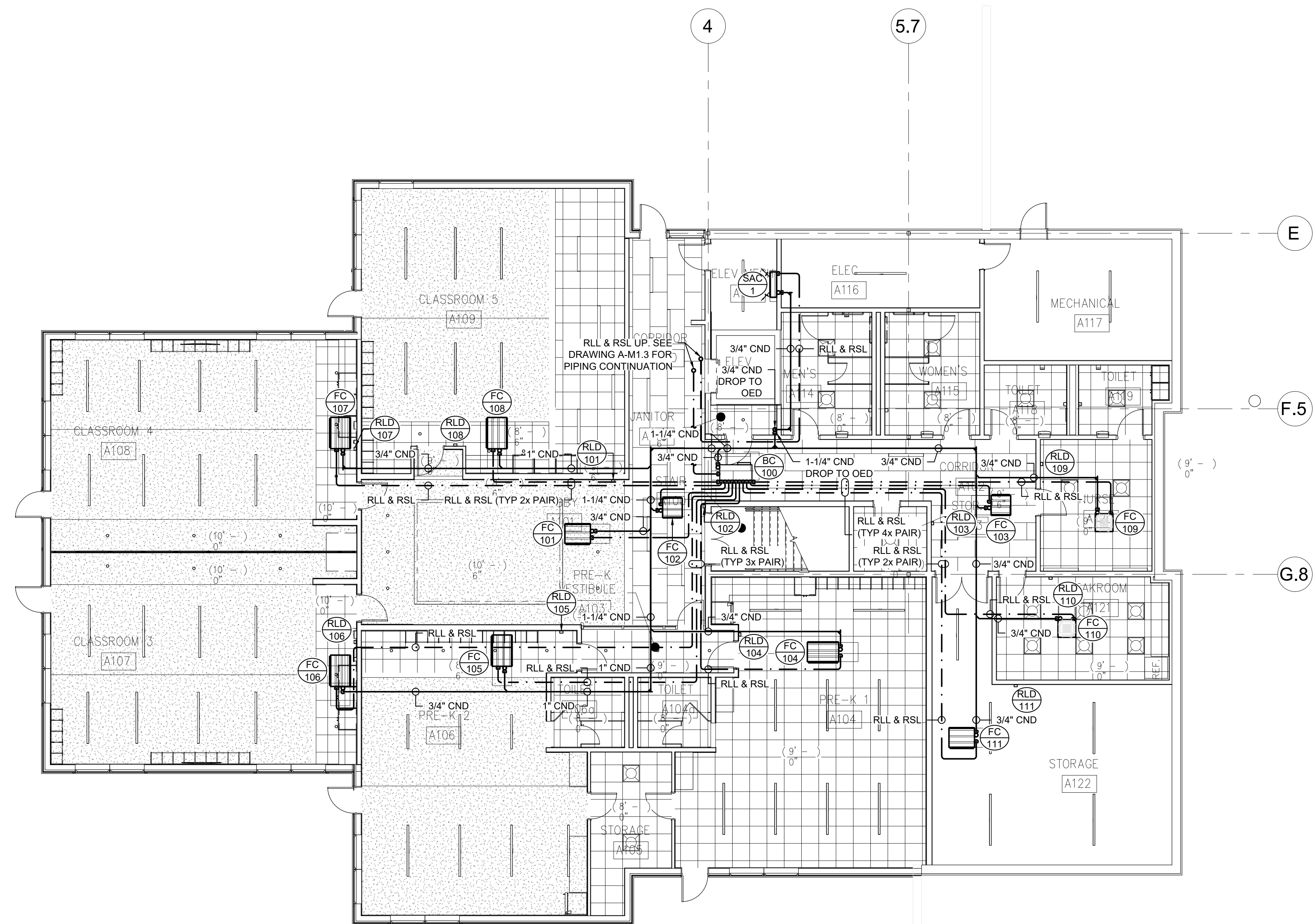
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SHEET TITLE
 MECHANICAL
 EDUCATION
 CENTER
 ROOF PLAN

DRAWN BY: MFM/AJV	JOB NUMBER: 18050
CHECKED BY: WTM	DATE: 04/18/2024

A-M1.3

SHEET: OF:



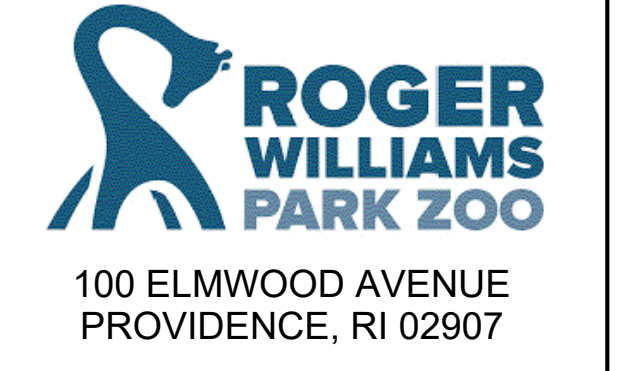
1 MECHANICAL LOWER LEVER PIPING PLAN
 A-M2.1 1/8" = 1'-0"



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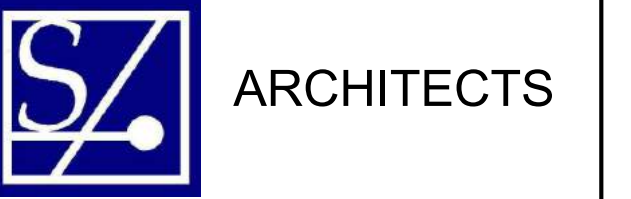
Issued for Bid
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SHEET TITLE
**MECHANICAL
 LOWER LEVEL
 PIPING PLANS**

DRAWN BY: MFMA/JV JOB NUMBER: 18050
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A-M2.1

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SHEET TITLE

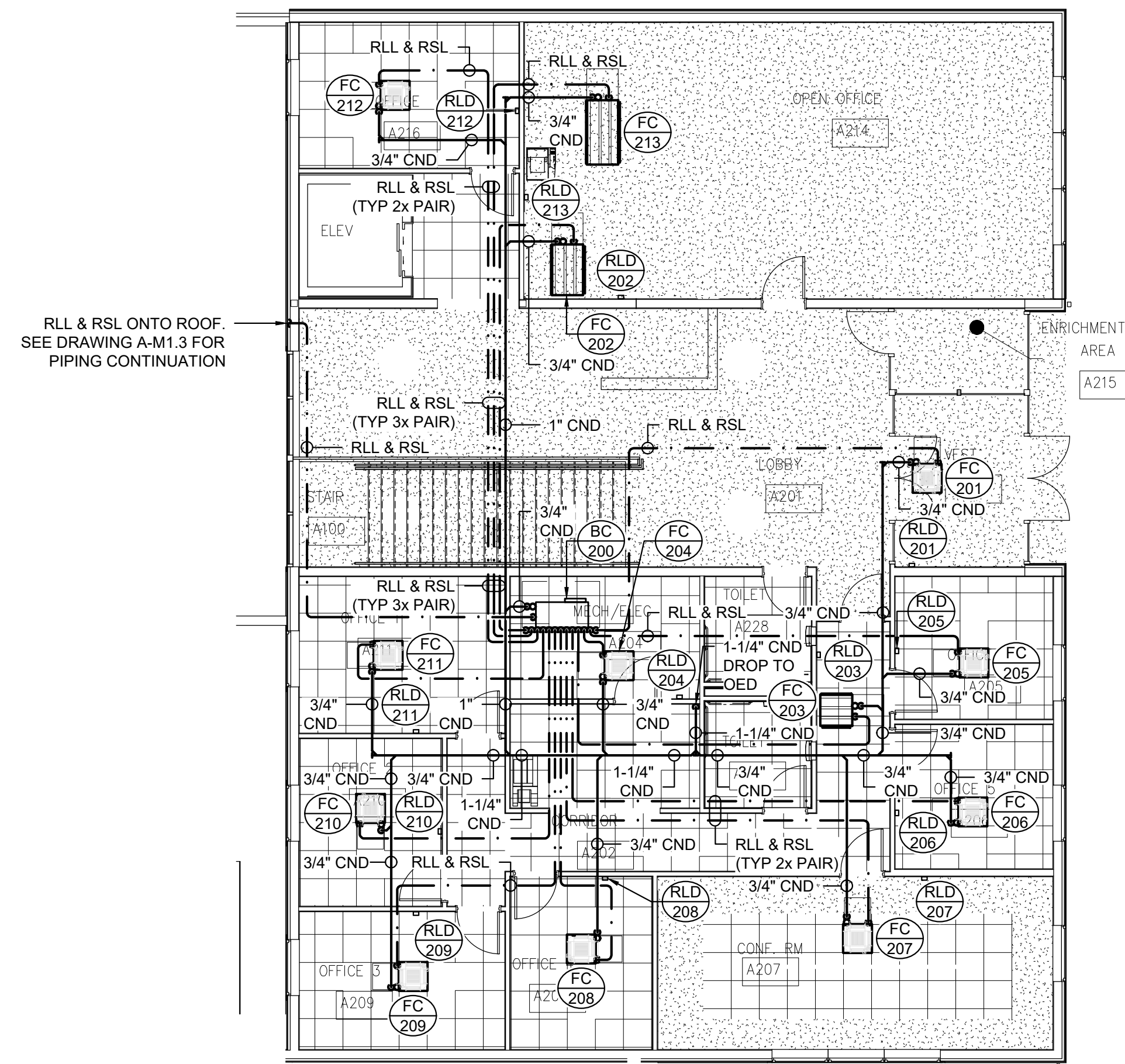
**MECHANICAL
 UPPER LEVEL
 PIPING PLAN**

DRAWN BY: MFM/AJV JOB NUMBER: 18050

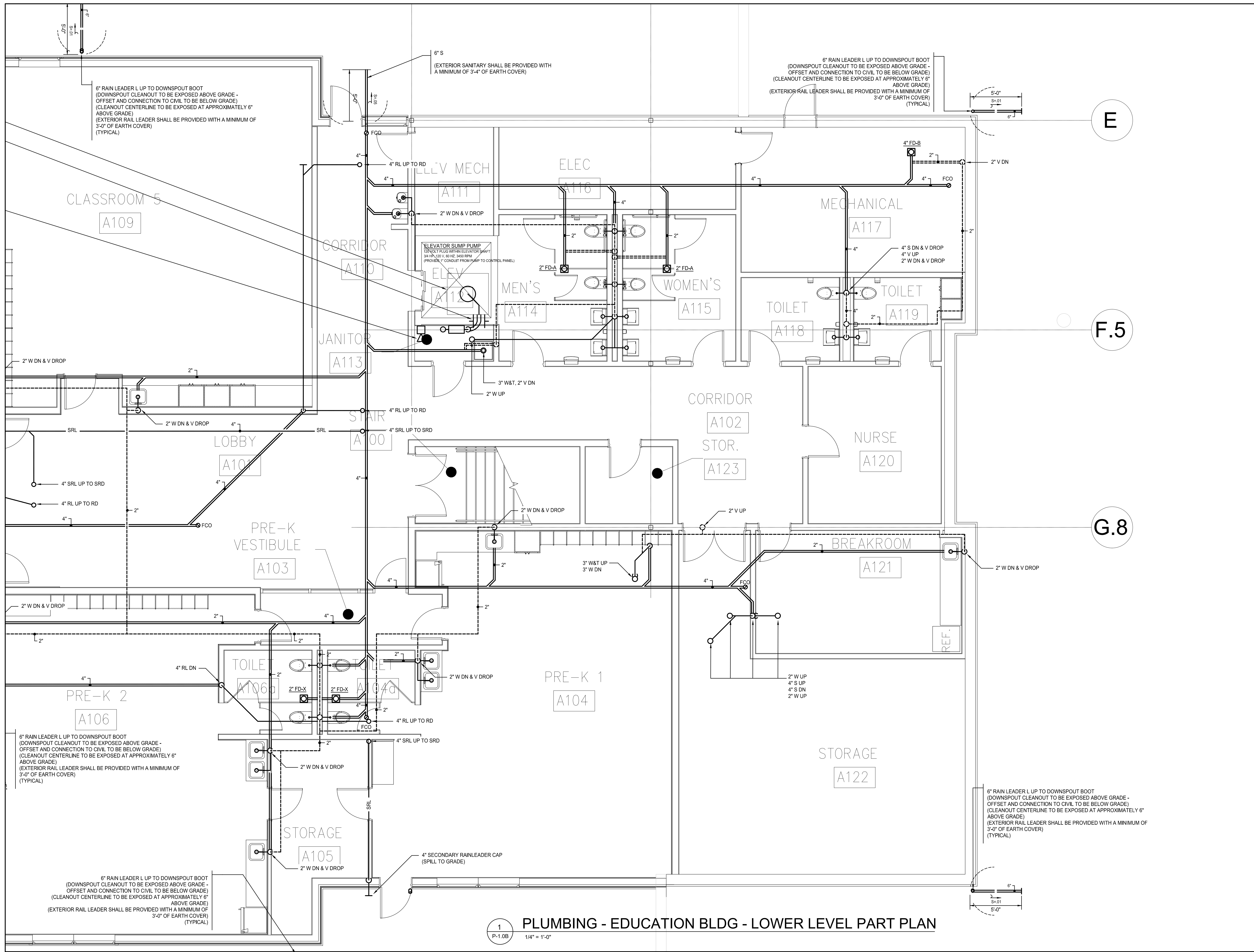
CHECKED BY: WTM DATE: 04/18/2024

A-M2.2

SHEET: OF:



1
 A-M2.2
 UPPER LEVEL PIPING PLAN
 1/8" = 1'-0"



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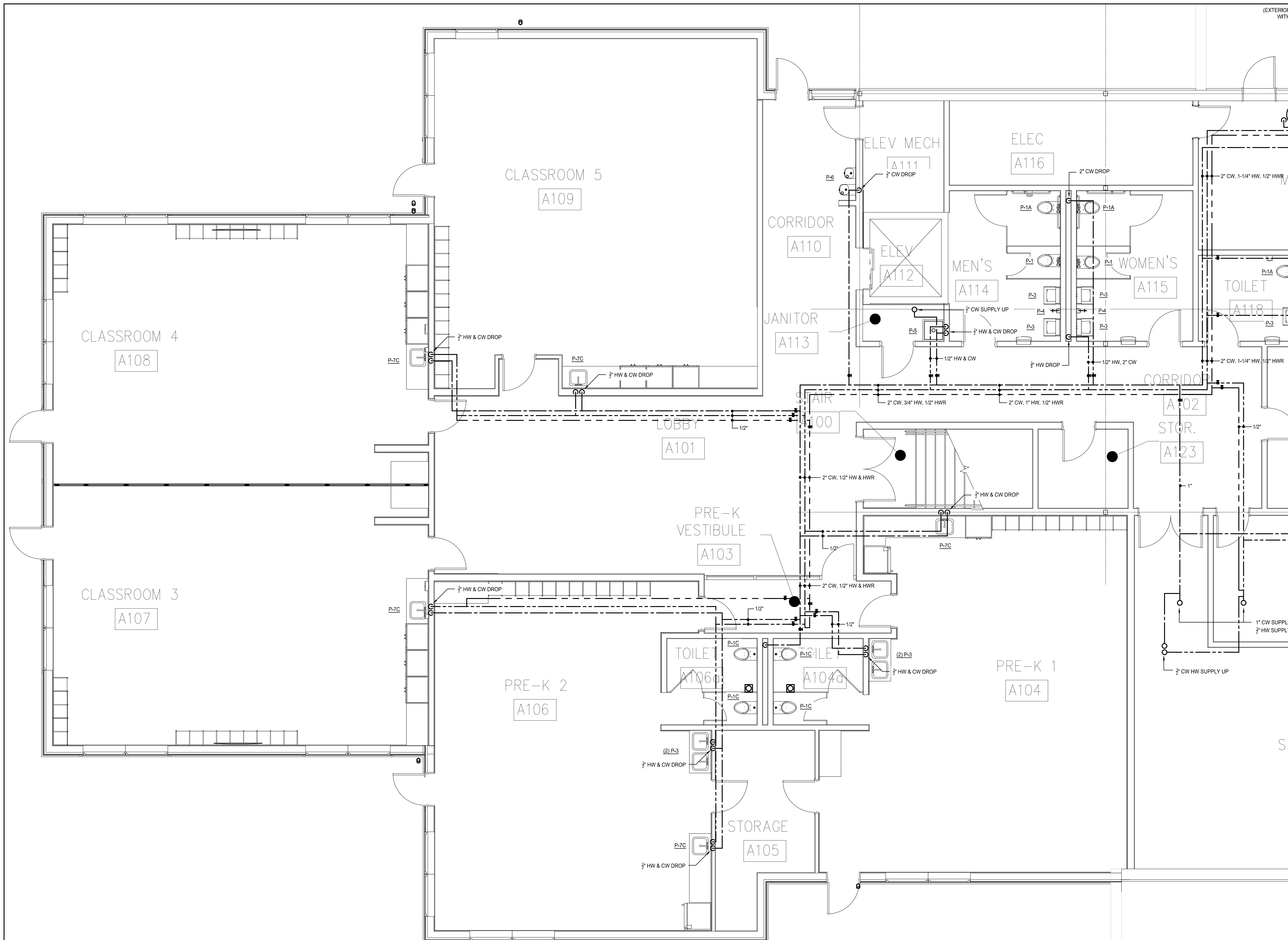
SHEET TITLE
PLUMBING
EDUCATION
BLDG
UNDERSLAB
PART PLAN B

DRAWN BY: RC JOB NUMBER: 18050
 CHECKED BY: GGM DATE: 04/18/2024

A-P1.0B

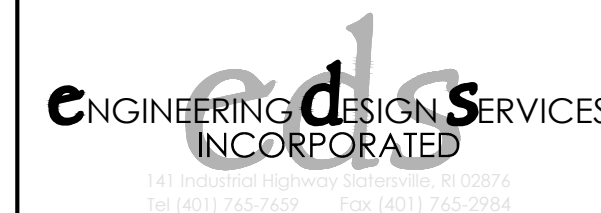
SHEET: OF:

1 PLUMBING - EDUCATION BLDG - LOWER LEVEL PART PLAN
 1/4" = 1'-0"



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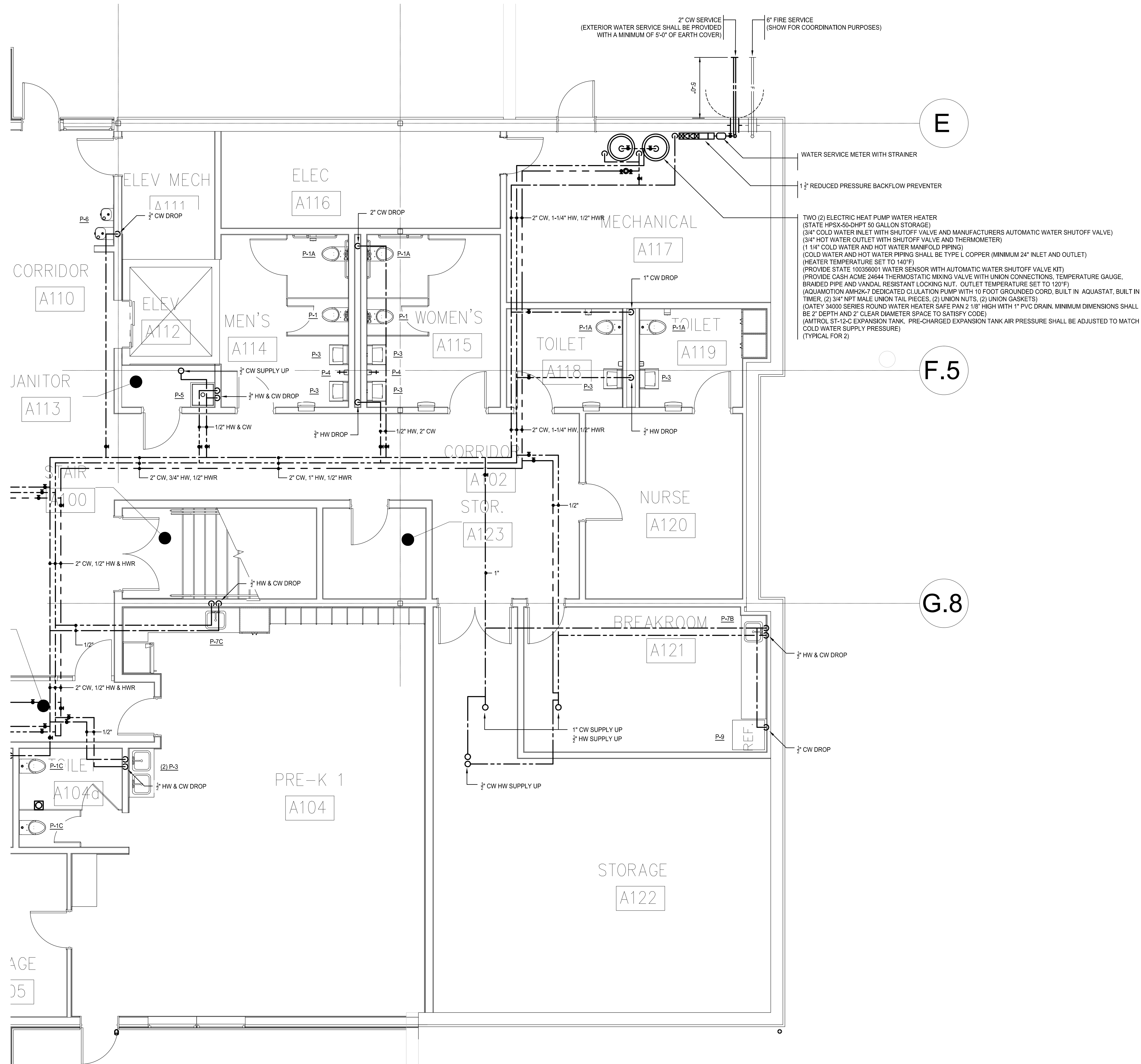
SHEET TITLE
**PLUMBING
 EDUCATION
 BLDG LOWER
 LEVEL PART
 PLAN A**

DRAWN BY: RC JOB NUMBER: 18050

CHECKED BY: GGM DATE: 04/18/2024

A-P1.1A

SHEET: OF:



2" CW SERVICE
(EXTERIOR WATER SERVICE SHALL BE PROVIDED WITH A MINIMUM OF 5'-0" OF EARTH COVER)

6" FIRE SERVICE
(SHOW FOR COORDINATION PURPOSES)

WATER SERVICE METER WITH STRAINER

1 1/2" REDUCED PRESSURE BACKFLOW PREVENTER

TWO (2) ELECTRIC HEAT PUMP WATER HEATER
(STATE HPSX-50-DHPT 50 GALLON STORAGE)
(3/4" COLD WATER INLET WITH SHUTOFF VALVE AND MANUFACTURERS AUTOMATIC WATER SHUTOFF VALVE)
(3/4" HOT WATER OUTLET WITH SHUTOFF VALVE AND THERMOMETER)
(1 1/4" COLD WATER AND HOT WATER MANIFOLD PIPING)
(COLD WATER AND HOT WATER PIPING SHALL BE TYPE L COPPER (MINIMUM 24" INLET AND OUTLET)
(HEATER TEMPERATURE SET TO 140°F)
(PROVIDE STATE 100356001 WATER SENSOR WITH AUTOMATIC WATER SHUTOFF VALVE KIT)
(PROVIDE CASH ACME 24544 THERMOSTATIC MIXING VALVE WITH UNION CONNECTIONS, TEMPERATURE GAUGE,
BRAIDED PIPE AND VANDAL RESISTANT LOCKING NUT, OUTLET TEMPERATURE SET TO 120°F)
(AQUAMOTION AMH2K-7 DEDICATED CIRCULATION PUMP WITH 10 FOOT GROUNDED CORD, BUILT IN AQUASTAT, BUILT IN
TIMER, (2) 3/4" NPT MALE UNION TAIL PIECES, (2) UNION NUTS, (2) UNION GASKETS)
(OATEY 34000 SERIES ROUND WATER HEATER SAFE PAN 2 1/8" HIGH WITH 1" PVC DRAIN. MINIMUM DIMENSIONS SHALL
BE 2" DEPTH AND 2" CLEAR DIAMETER SPACE TO SATISFY CODE)
(AMTROL ST-12-C EXPANSION TANK. PRE-CHARGED EXPANSION TANK AIR PRESSURE SHALL BE ADJUSTED TO MATCH
COLD WATER SUPPLY PRESSURE)
(TYPICAL FOR 2)

1 PLUMBING - EDUCATION BLDG - LOWER LEVEL PART PLAN

1
A-P1.1B
1/4" = 1'-0"



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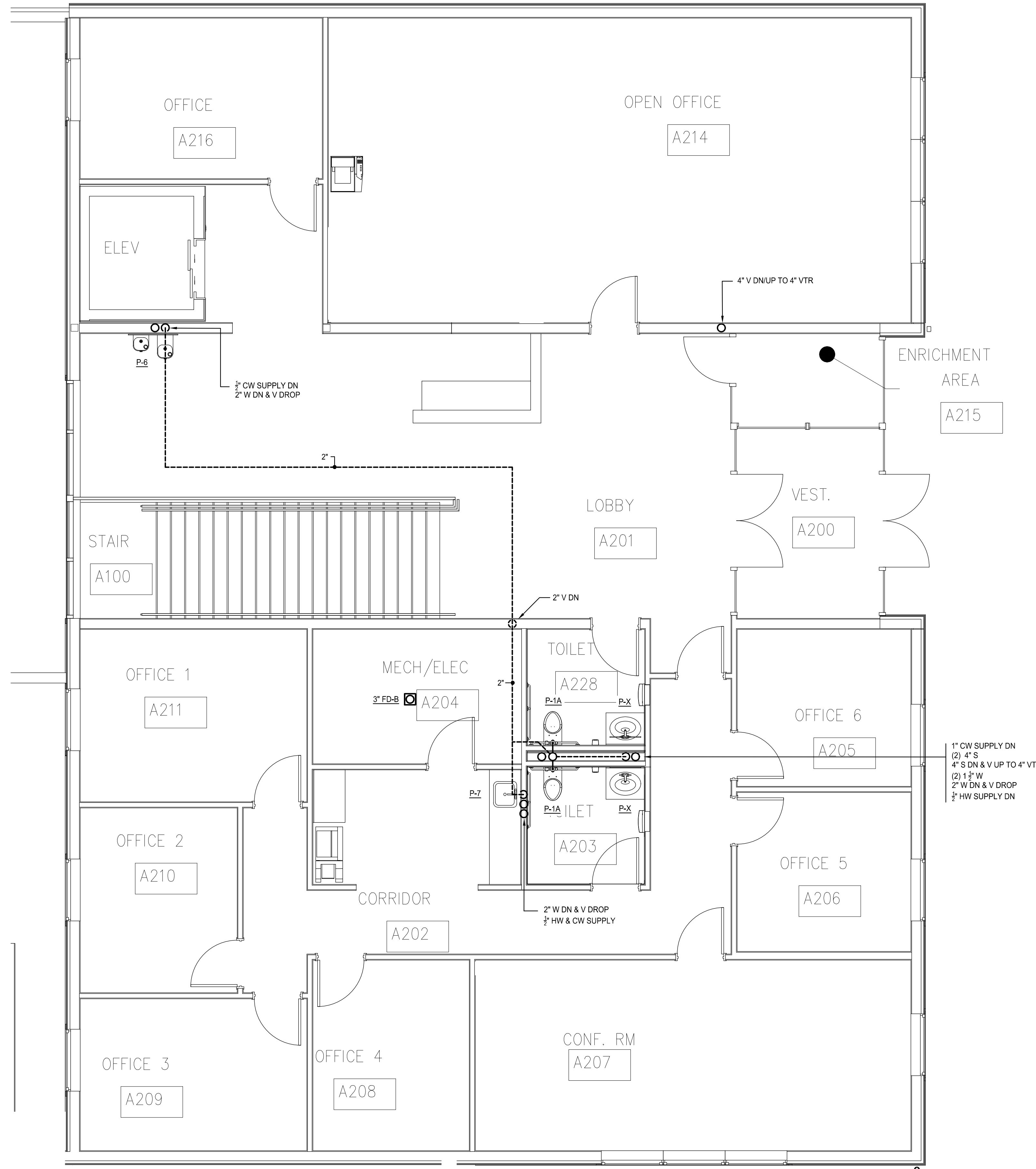
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SHEET TITLE
**PLUMBING
EDUCATION
BLDG LOWER
LEVEL PART
PLAN B**

DRAWN BY: RC JOB NUMBER: 18050
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A-P1.1B

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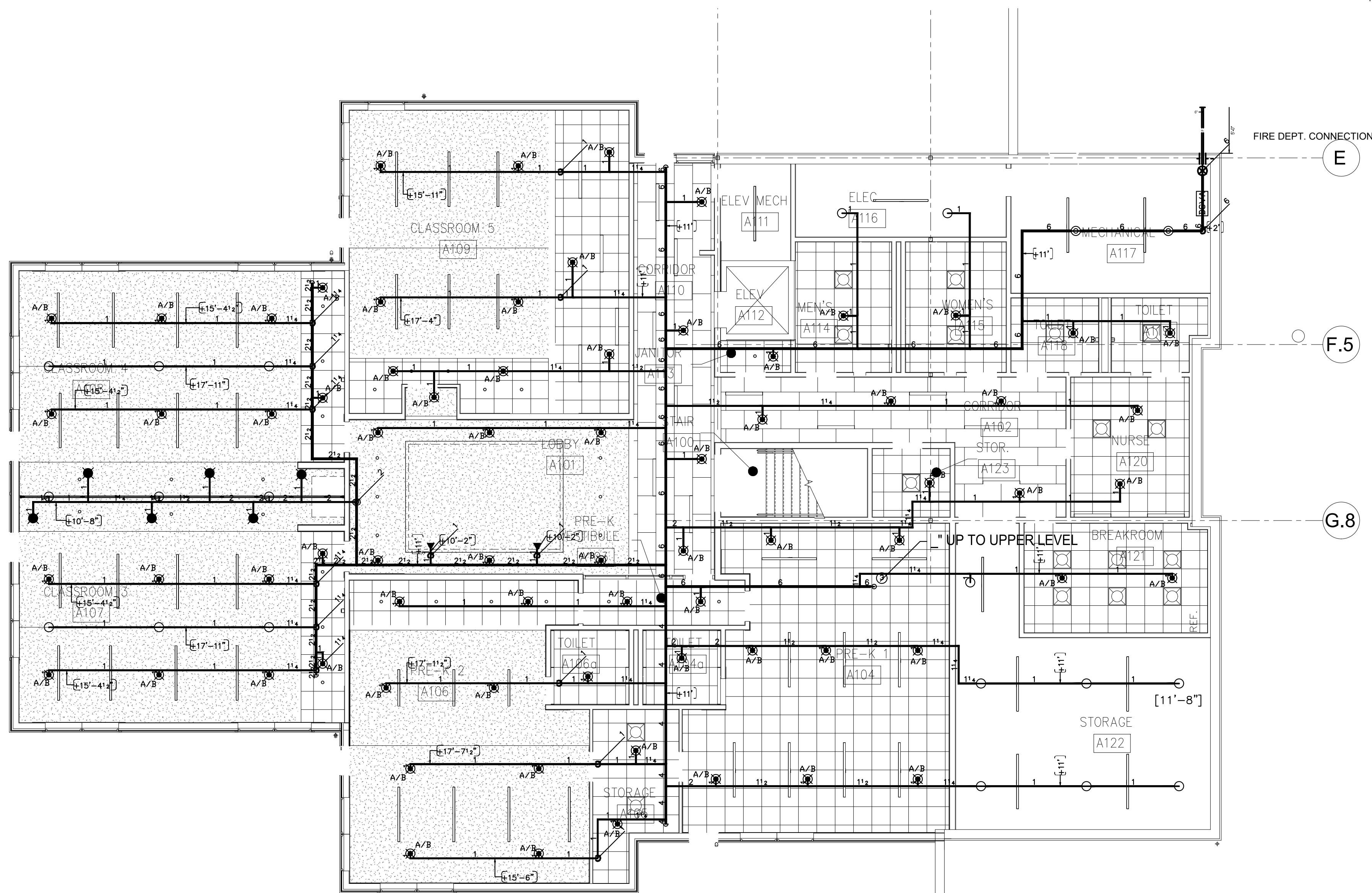
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SHEET TITLE
**PLUMBING
 EDUCATION
 BLDG
 UPPER LEVEL
 FLOOR PLAN**

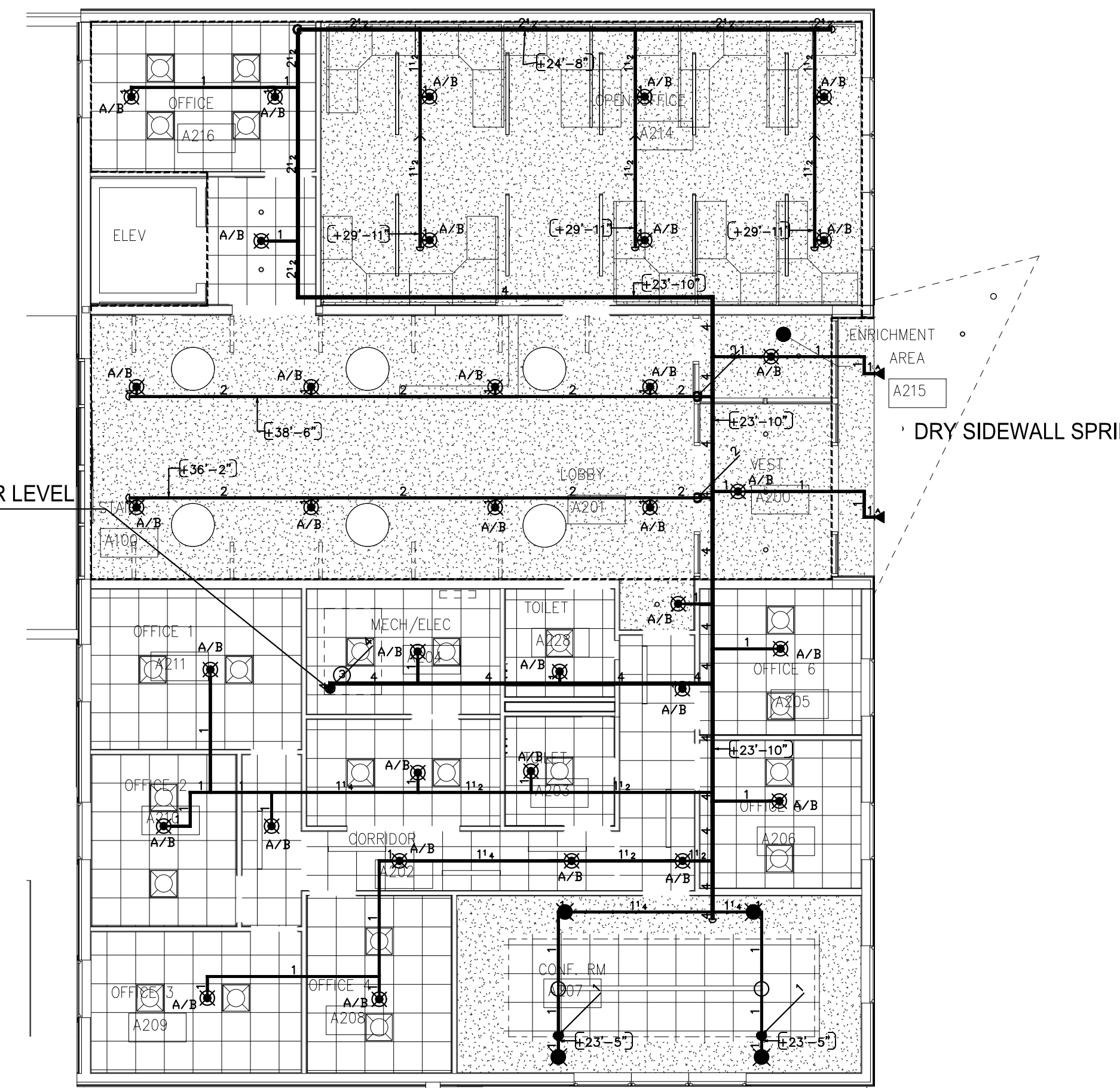
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A-P1.2

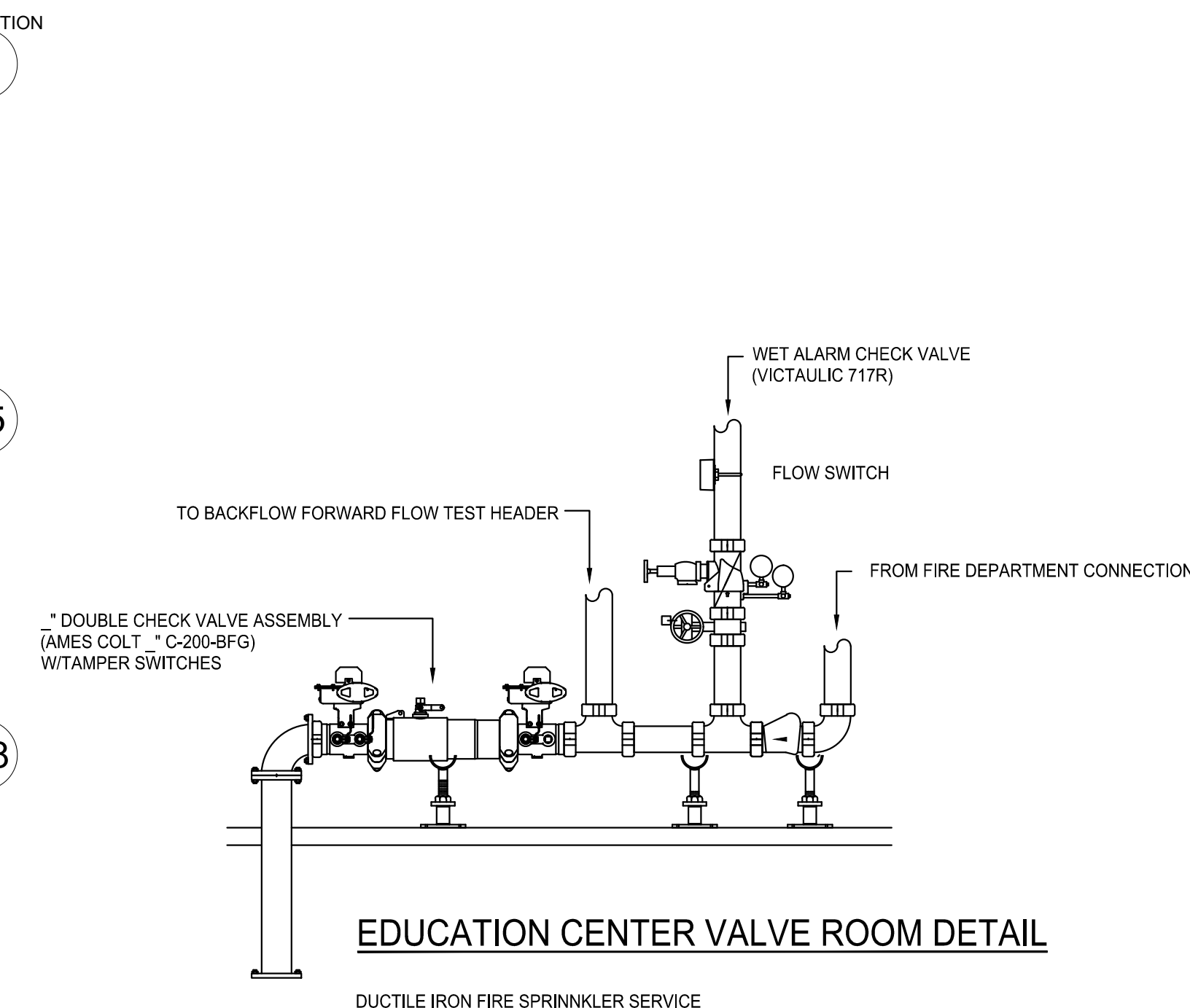
SHEET: OF:



1 LOWER LEVEL FLOOR PLAN
A-FP1.0 1/8" = 1'-0"

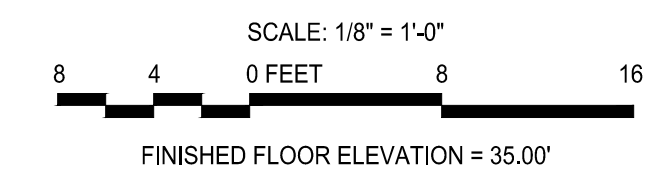


UPPER LEVEL FLOOR PLAN



EDUCATION CENTER VALVE ROOM DETAIL

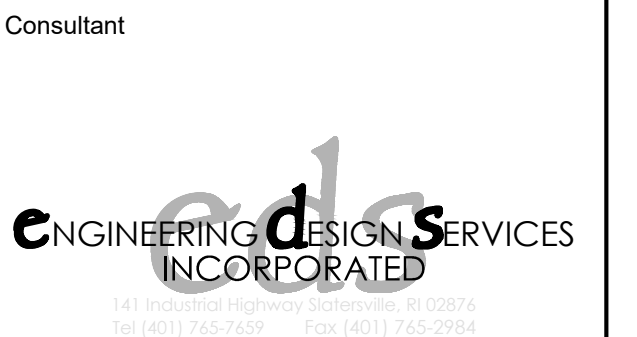
DUCTILE IRON FIRE SPRINKLER SERVICE



FINISHED FLOOR ELEVATION = 35.00'



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SHEET TITLE
FIRE PROTECTION
EDUCATION CENTER

DRAWN BY: DDL JOB NUMBER: 18050
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A-FP1.0

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SHEET TITLE

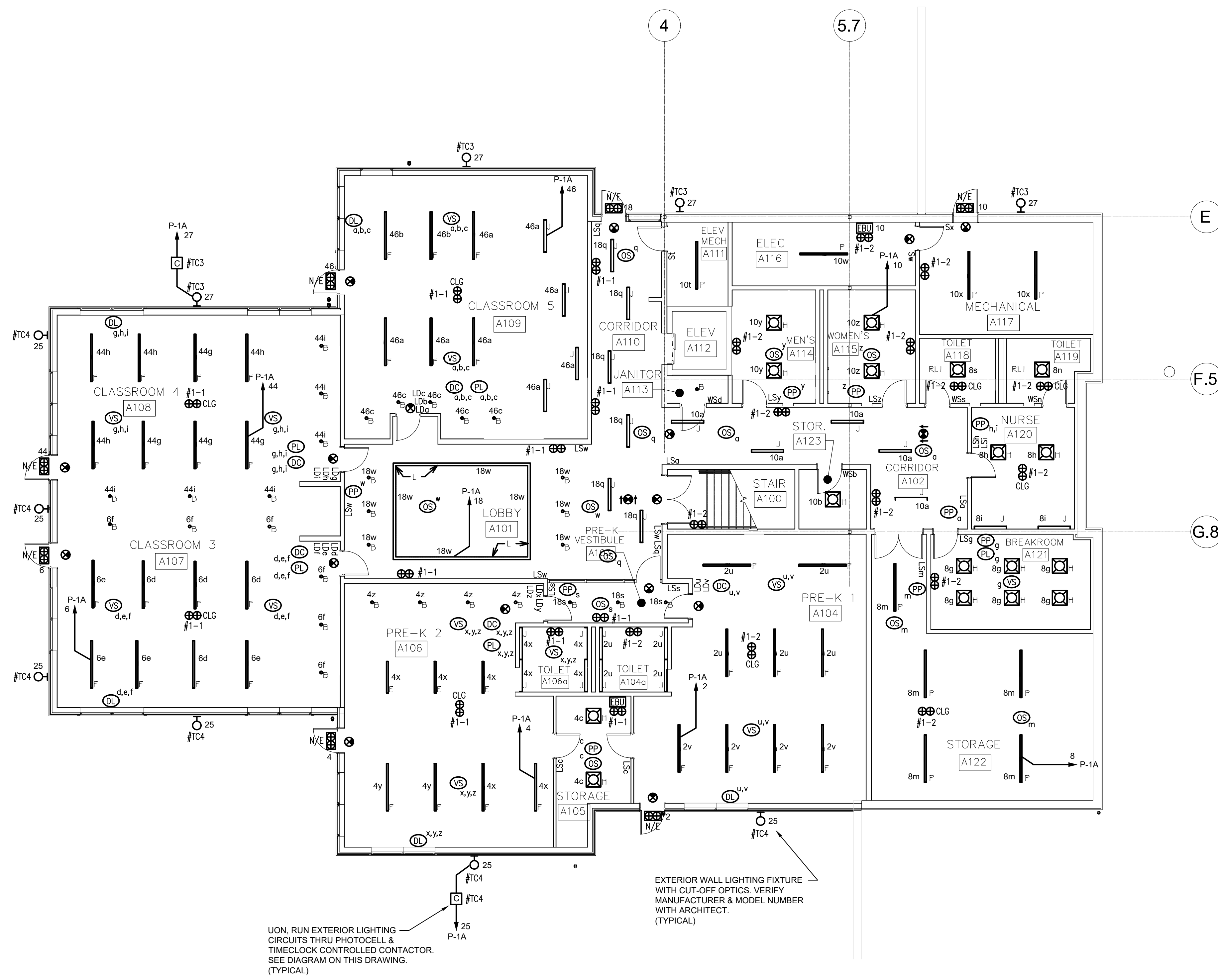
**ELECTRICAL
 LOWER LEVEL
 FLOOR PLAN -
 LIGHTING**

DRAWN BY: SPC JOB NUMBER: 18050

CHECKED BY: RWD DATE: 04/18/2024

A-E1.1

SHEET: OF:



1 LOWER LEVEL FLOOR PLAN - LIGHTING
 1/8" = 1'-0"



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100 ELMWOOD AVENUE
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Revision Schedule

Revision Number	Revision Date

Issued for Bid
 05/01/2024

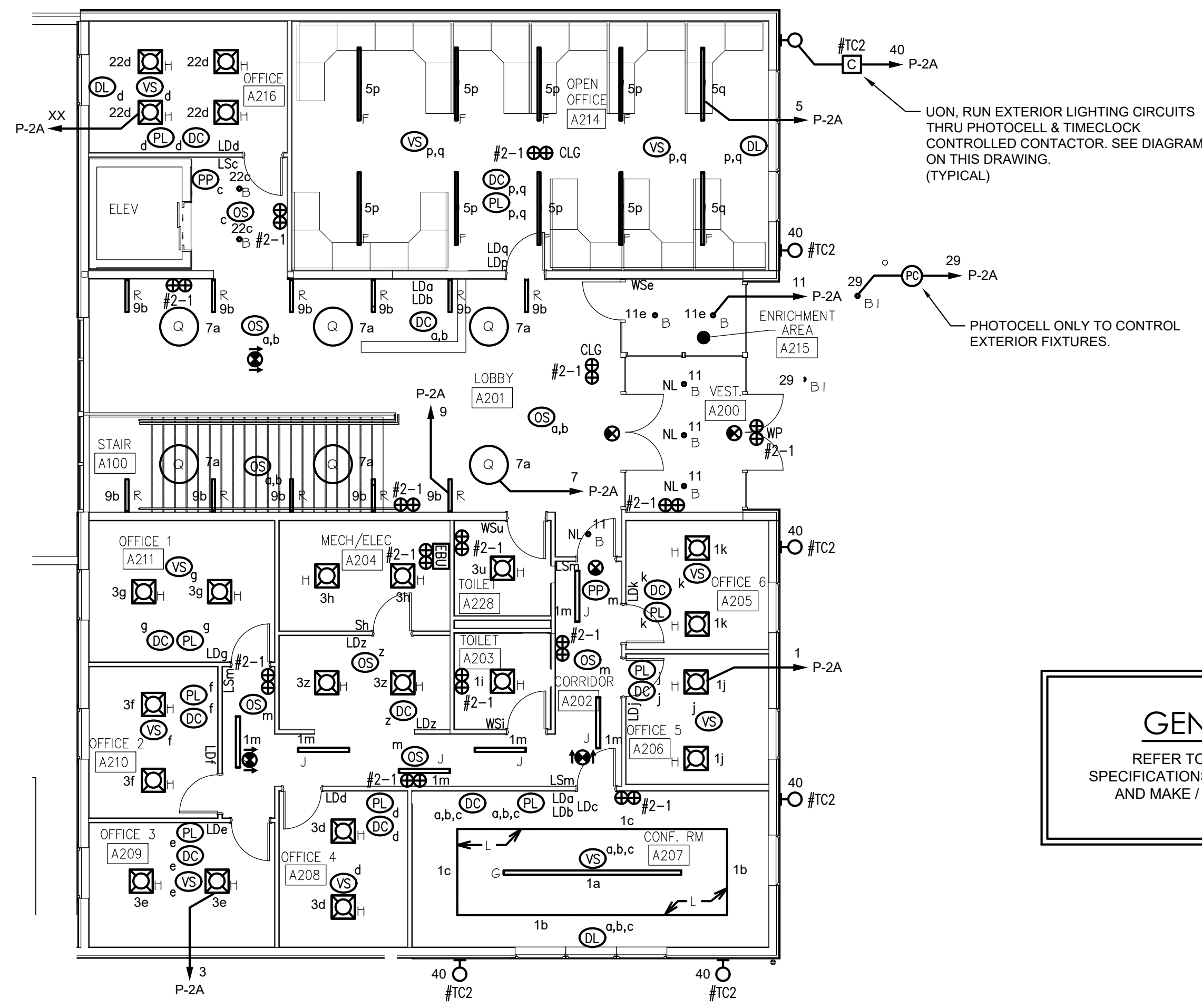
SHEET TITLE

**ELECTRICAL
 UPPER LEVEL
 FLOOR PLAN -
 LIGHTING**

DRAWN BY: SPC JOB NUMBER: 18050
 CHECKED BY: RWD DATE: 04/18/2024

A-E1.2

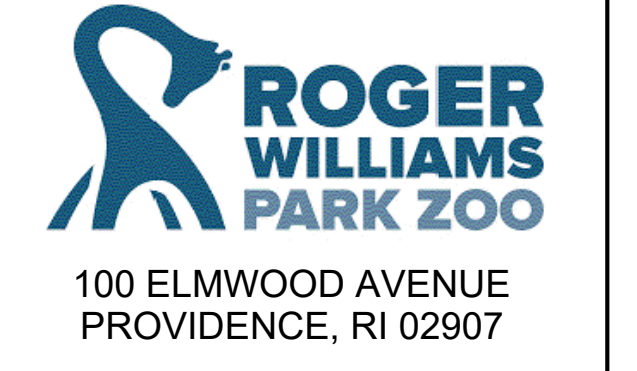
SHEET: OF:



GENERAL NOTE:
 REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR LIGHTING FIXTURE TYPES AND MAKE / MODEL NUMBERS. (TYPICAL)

1 UPPER LEVEL FLOOR PLAN - LIGHTING
 E1-2 1/8" = 1'-0"

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Revision Schedule	
Revision Number	Revision Date

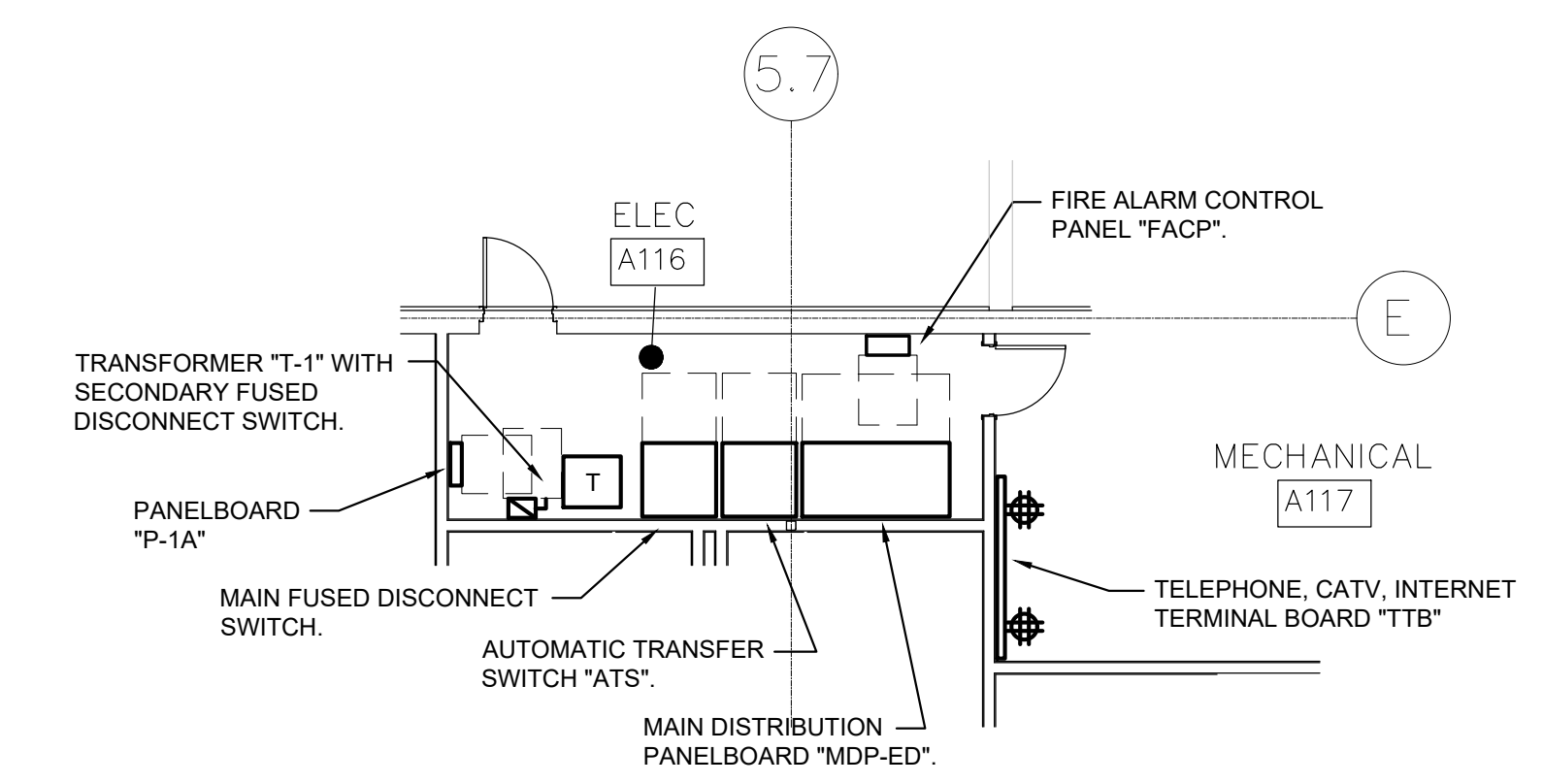
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SHEET TITLE
ELECTRICAL LOWER LEVEL FLOOR PLAN - POWER & SIGNAL

DRAWN BY: SPC JOB NUMBER: 18050
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A-E2.1

SHEET: OF:

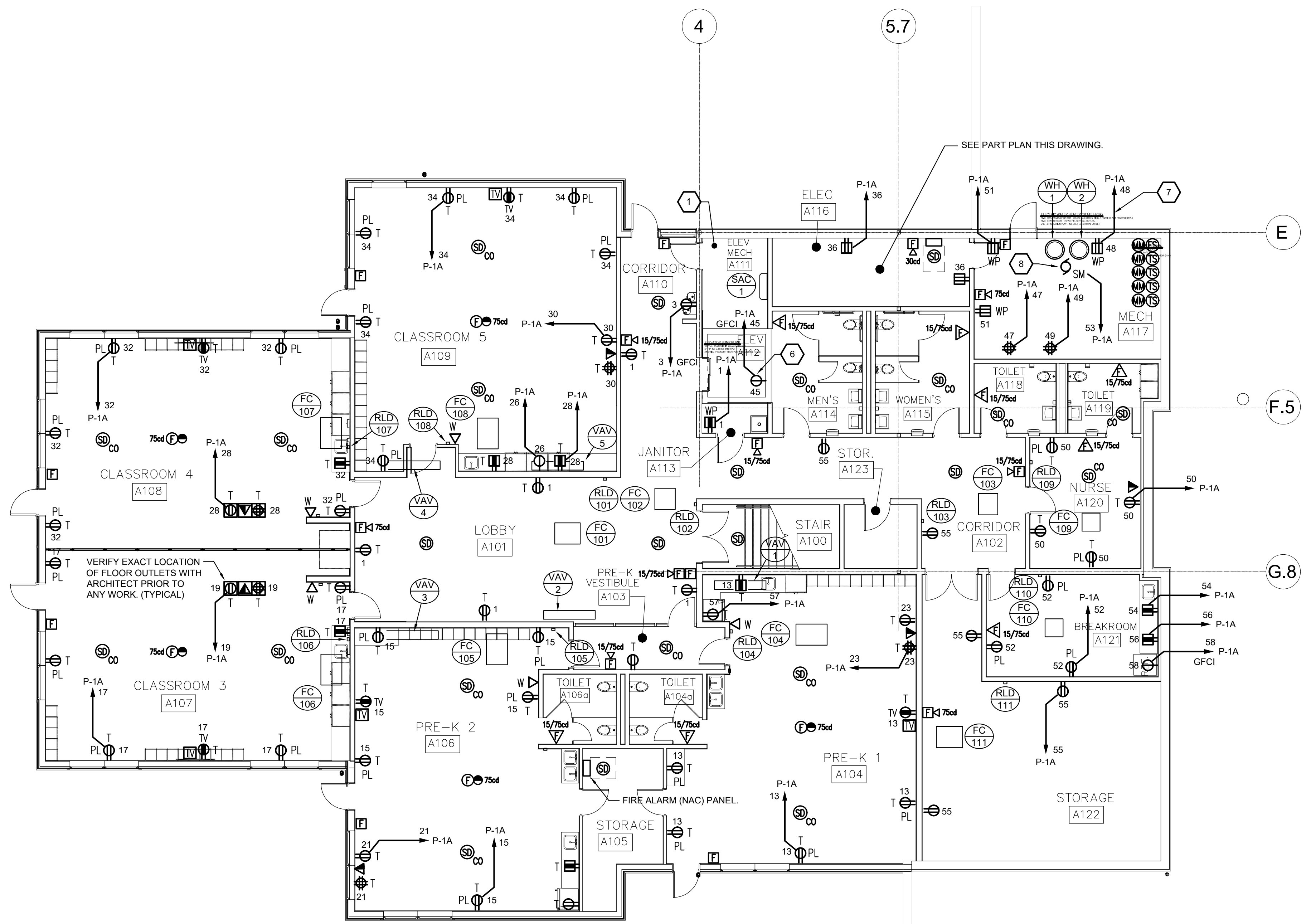


2 PART PLAN - ELEC A116
 1/8" = 1'-0"

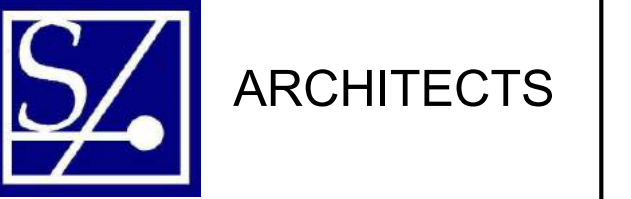
MECHANICAL EQUIPMENT CONNECTION TAG:
 REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" ON DRAWING E0.5 FOR ALL CIRCUITING INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITING WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISC. SWITCH & CIRCUIT BREAKER.

SHEET KEYED NOTES:

- 1 REFER TO DRAWING E2-4 FOR ELEVATOR ELECTRICAL AND FIRE ALARM REQUIREMENTS.
- 2 PROVIDE A MOTOR-RATED TOGGLE SWITCH IN WEATHER-PROOF ENCLOSURE & 120VAC CIRCUIT FOR DISHWASHER. LOCATE SWITCH IN CABINET UNDER SINK. ALL WIRING SHALL BE IN EMT CONDUIT. PROVIDE LABEL ON SWITCH "DISHWASHER".
- 3 DELETED
- 4 DELETED
- 5 DELETED
- 6 PROVIDE A SINGLE RECEPTACLE & DEDICATED 120V CIRCUIT CONNECTED TO A GFCI TYPE CIRCUIT BREAKER FOR SUMP PUMP BEING PROVIDED BY P.C. IN ADDITION, PROVIDE A 1" CONDUIT WITH PULL STRING FROM SUMP PUMP TO SUMP CONTROL PANEL. VERIFY EXACT LOCATIONS WITH P.C. PRIOR TO ANY WORK.
- 7 GFCI RECEPTACLE & DEDICATED CIRCUIT FOR LEAK SENSORS. VERIFY EXACT LOCATION WITH P.C. PRIOR TO ANY WORK.
- 8 MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS & DEDICATED CIRCUIT FOR CIRCULATOR PUMP. VERIFY EXACT LOCATION WITH P.C. PRIOR TO ANY WORK.



1 LOWER LEVEL FLOOR PLAN - POWER & SIGNAL
 1/8" = 1'-0"



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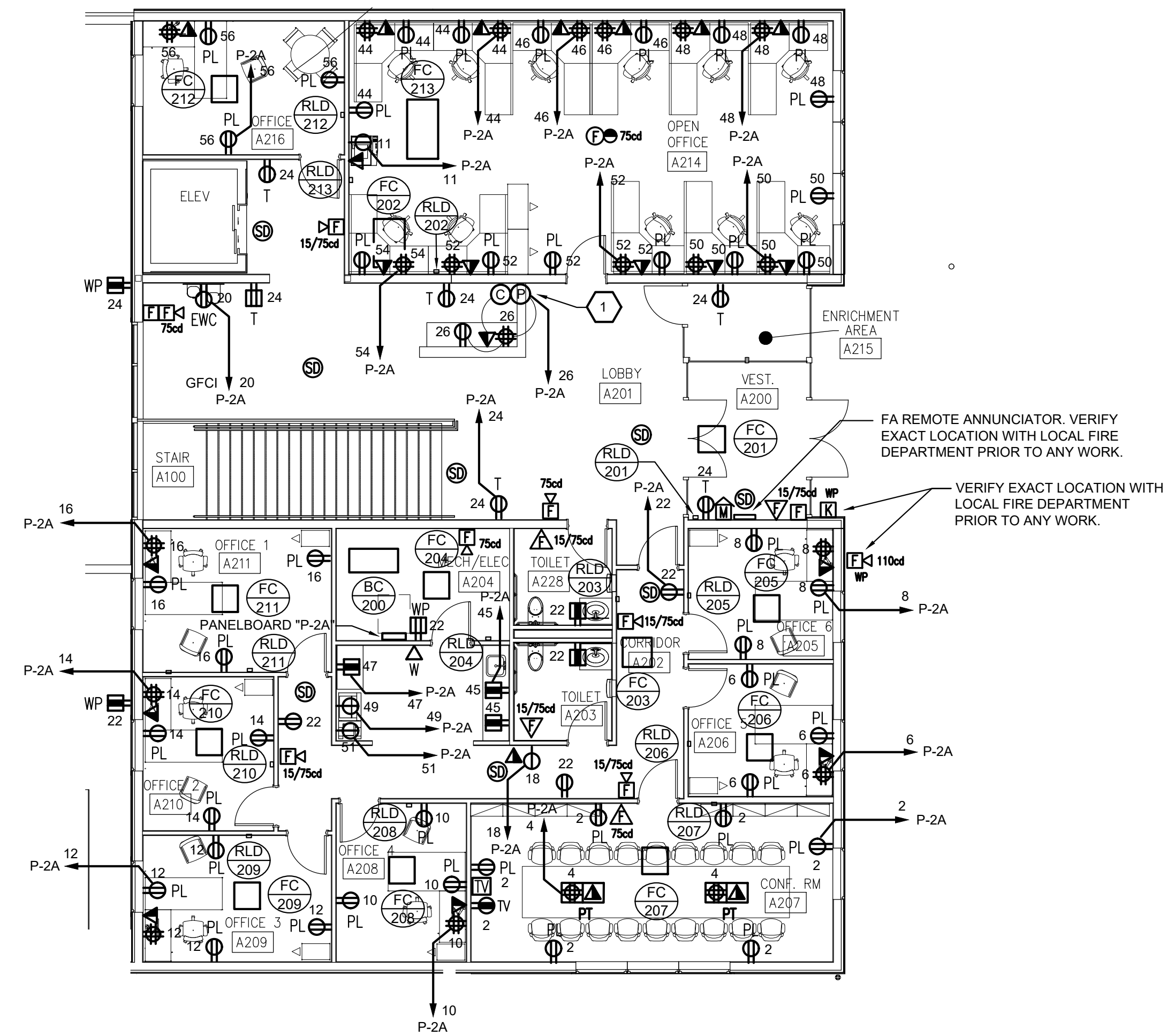
SHEET TITLE

**ELECTRICAL
UPPER LEVEL
FLOOR PLAN -
POWER & SIGNAL**

DRAWN BY: SPC JOB NUMBER: 18050
CHECKED BY: RWD DATE: 04/18/2024

A-E2.2

SHEET: OF:

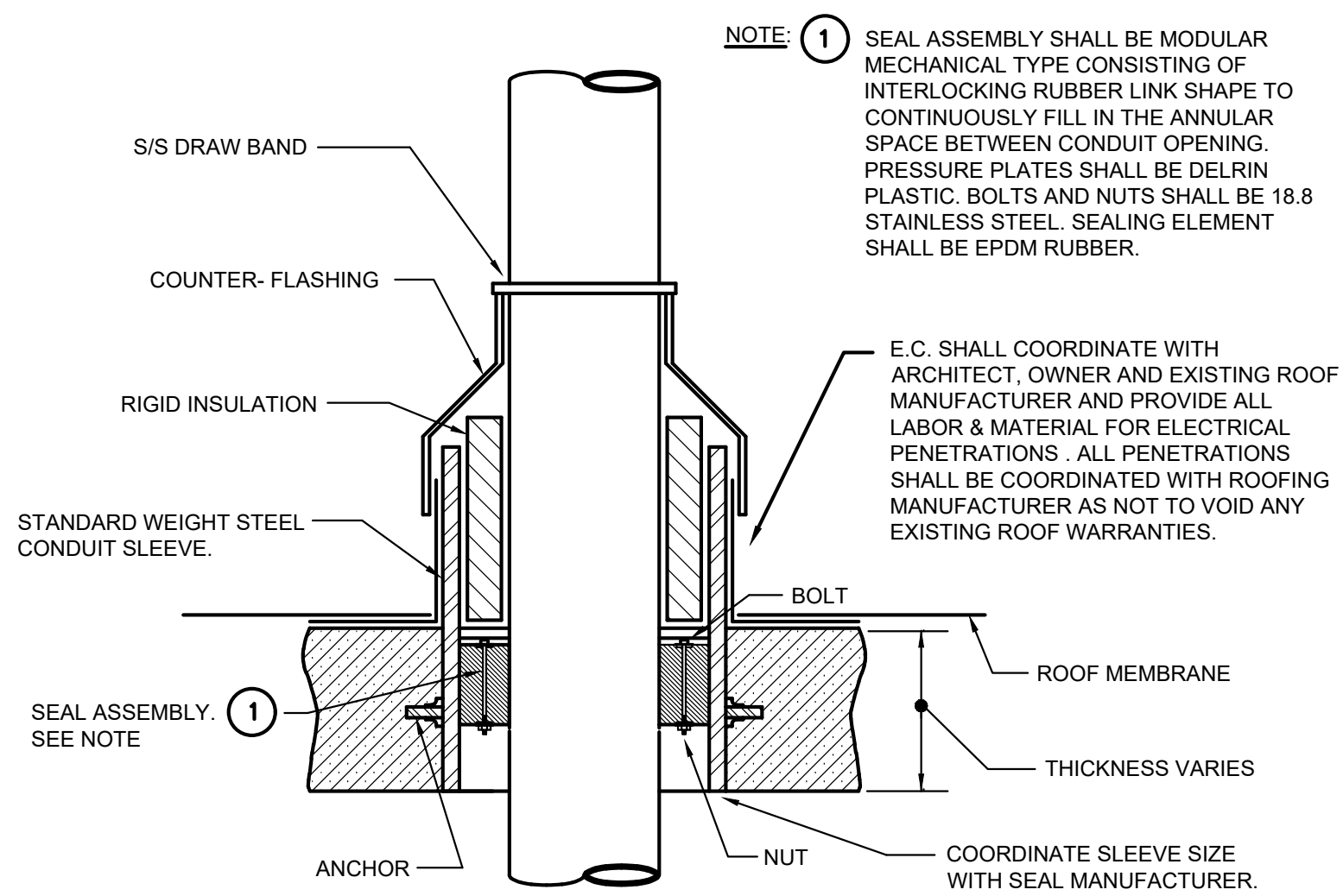


MECHANICAL EQUIPMENT CONNECTION TAG:
REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" ON DRAWING E0.5 FOR ALL CIRCUITING INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITING WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISC. SWITCH & CIRCUIT BREAKER.

- SHEET KEYED NOTES:**
- 1 PROVIDE POWER & TELE/DATA OUTLETS IN MILLWORK FED FROM ADJACENT WALL. ALL CONDUIT & WIRING SHALL BE CONCEALED FROM PUBLIC VIEW. COORDINATE & VERIFY EXACT INSTALLATION REQUIREMENTS WITH ARCHITECT & MILLWORK CONTRACTOR PRIOR TO ANY WORK. (TYPICAL)

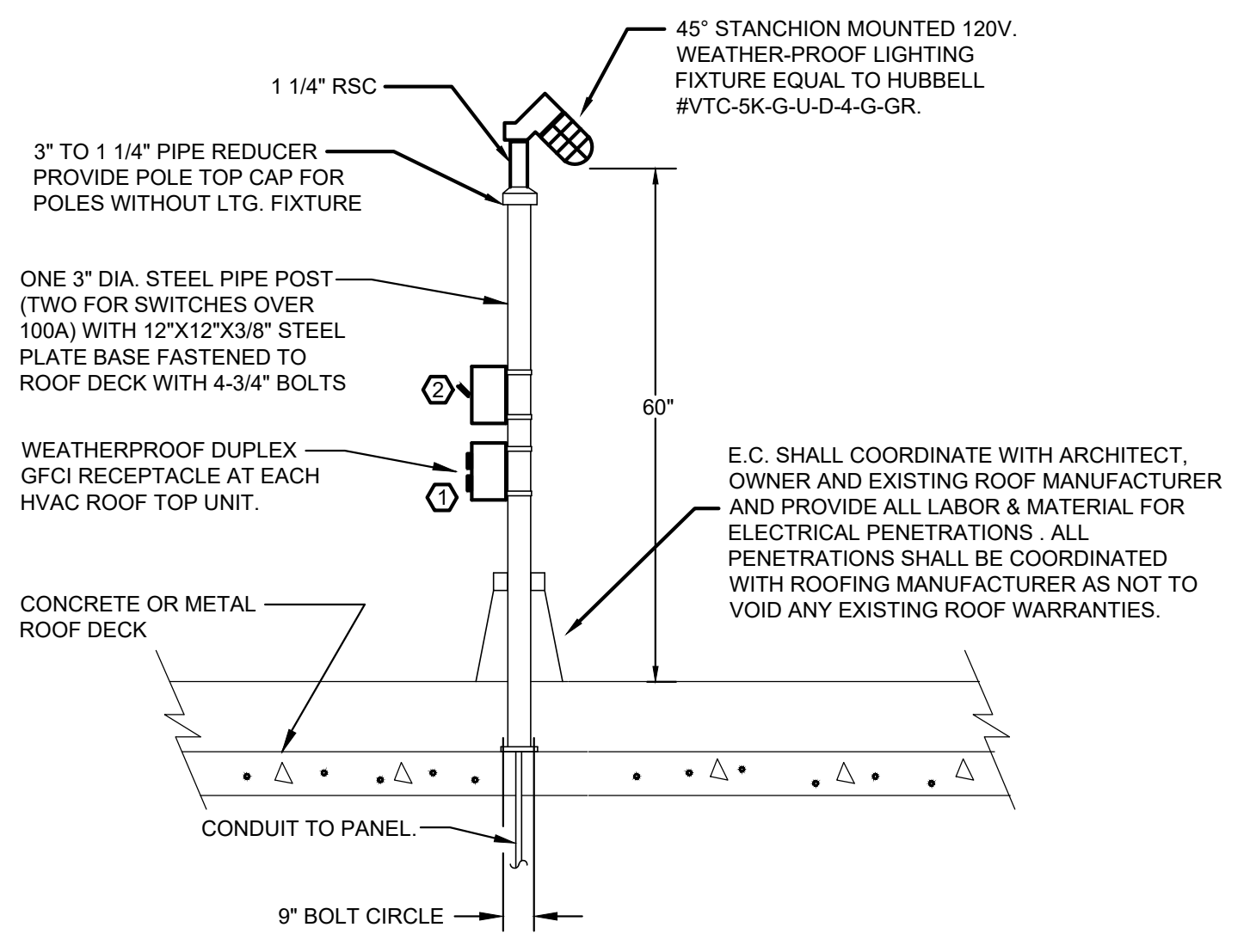
1 UPPER LEVEL FLOOR PLAN - POWER & SIGNAL
1/8" = 1'-0"

MECHANICAL EQUIPMENT CONNECTION TAG:
 REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" ON DRAWING E0.5 FOR ALL CIRCUITING INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITING WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISC. SWITCH & CIRCUIT BREAKER.

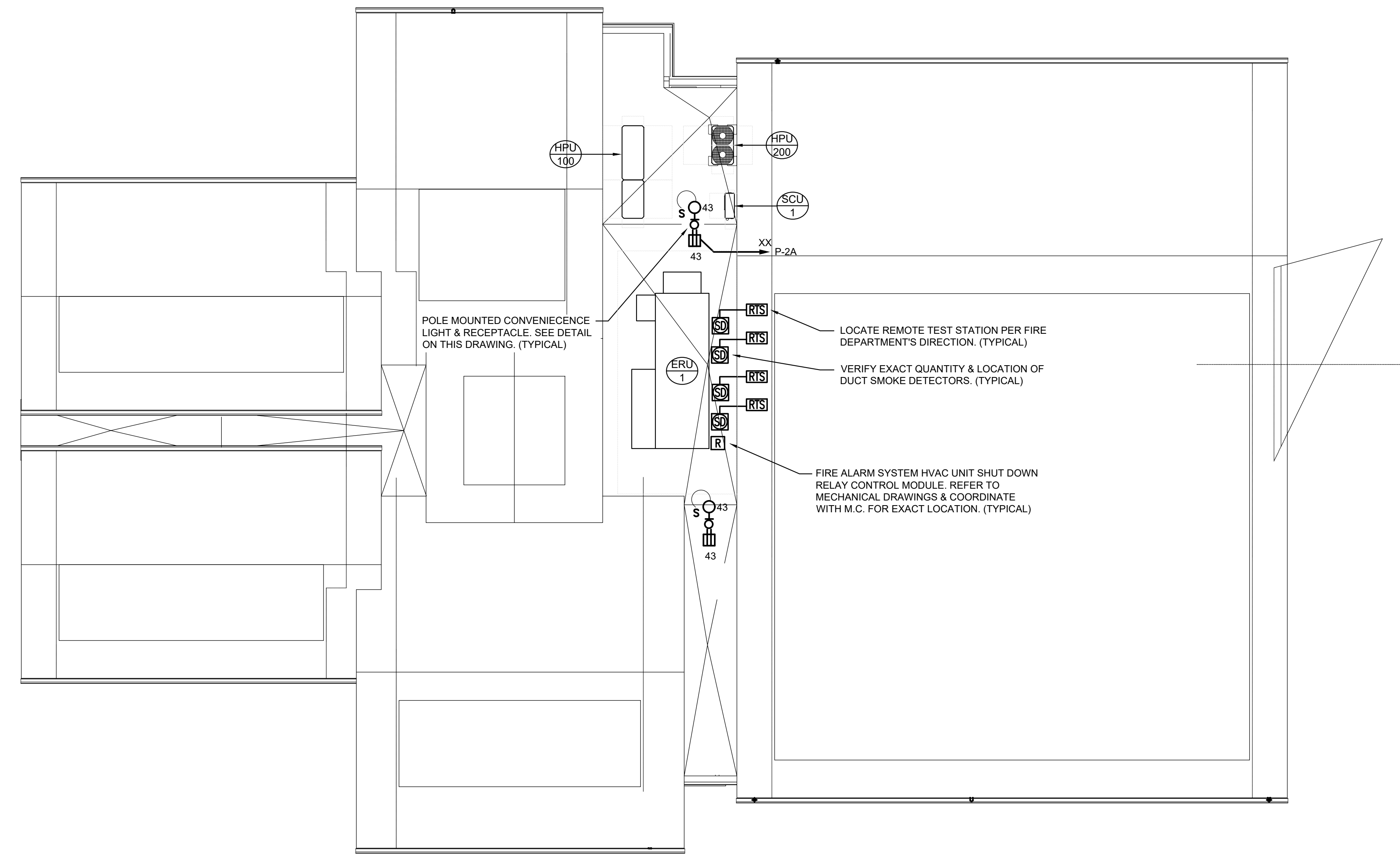


CONDUIT THRU ROOF DETAIL
 NOT TO SCALE

- NOTES:**
- ① CONTRACTOR SHALL PROVIDE A NEW GFCI RECEPTACLE MOUNTED TO THE OUTSIDE OF EACH ROOF TOP UNIT, AS DESCRIBED IN SECTION 210.63 OF THE NATIONAL ELECTRICAL CODE, 2011 EDITION.
 - ② IN ADDITION TO THIS SECTION THE CONTRACTOR SHALL PROVIDE A SUITABLE WEATHER-PROOF TOGGLE SWITCH TO CUT ALL POWER TO THE NEW GFCI RECEPTACLE.
 - ③ CONTRACTOR SHALL PROVIDE CIRCUITRY FOR GFCI RECEPTACLE AND LIGHT FIXTURE CONSISTING OF 2#12 + GND. IN 3/4" CONDUIT AND/OR MC (WHERE CONCEALED) FROM SWITCH FROM PANEL AS INDICATED. FIELD VERIFY EXACT ROUTING, LOCATION AND LENGTH OF CIRCUITRY. (TYPICAL)



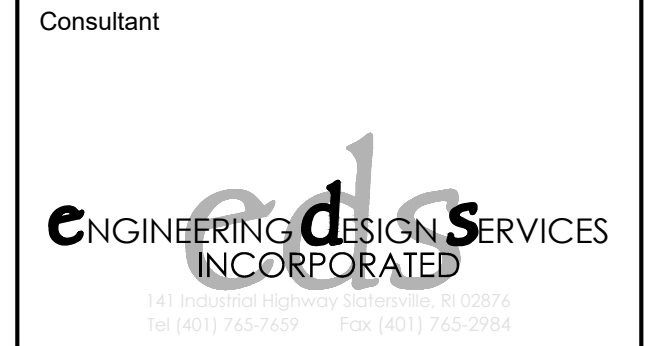
ROOF LIGHTING & RECEPTACLE DETAIL
 NOT TO SCALE



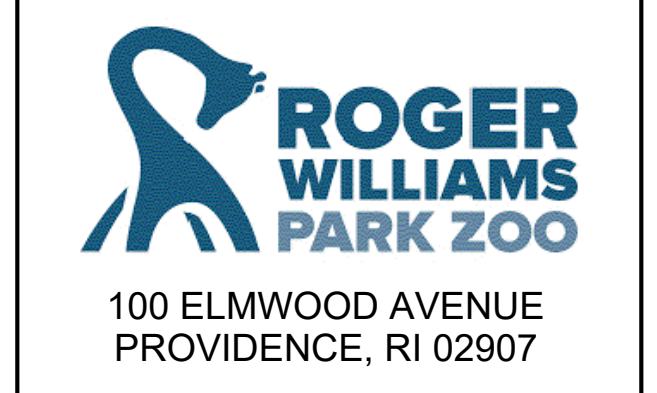
1 ROOF PLAN - ELECTRICAL
 E2-3 1/8" = 1'-0"



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SHEET TITLE
ELECTRICAL ROOF PLAN

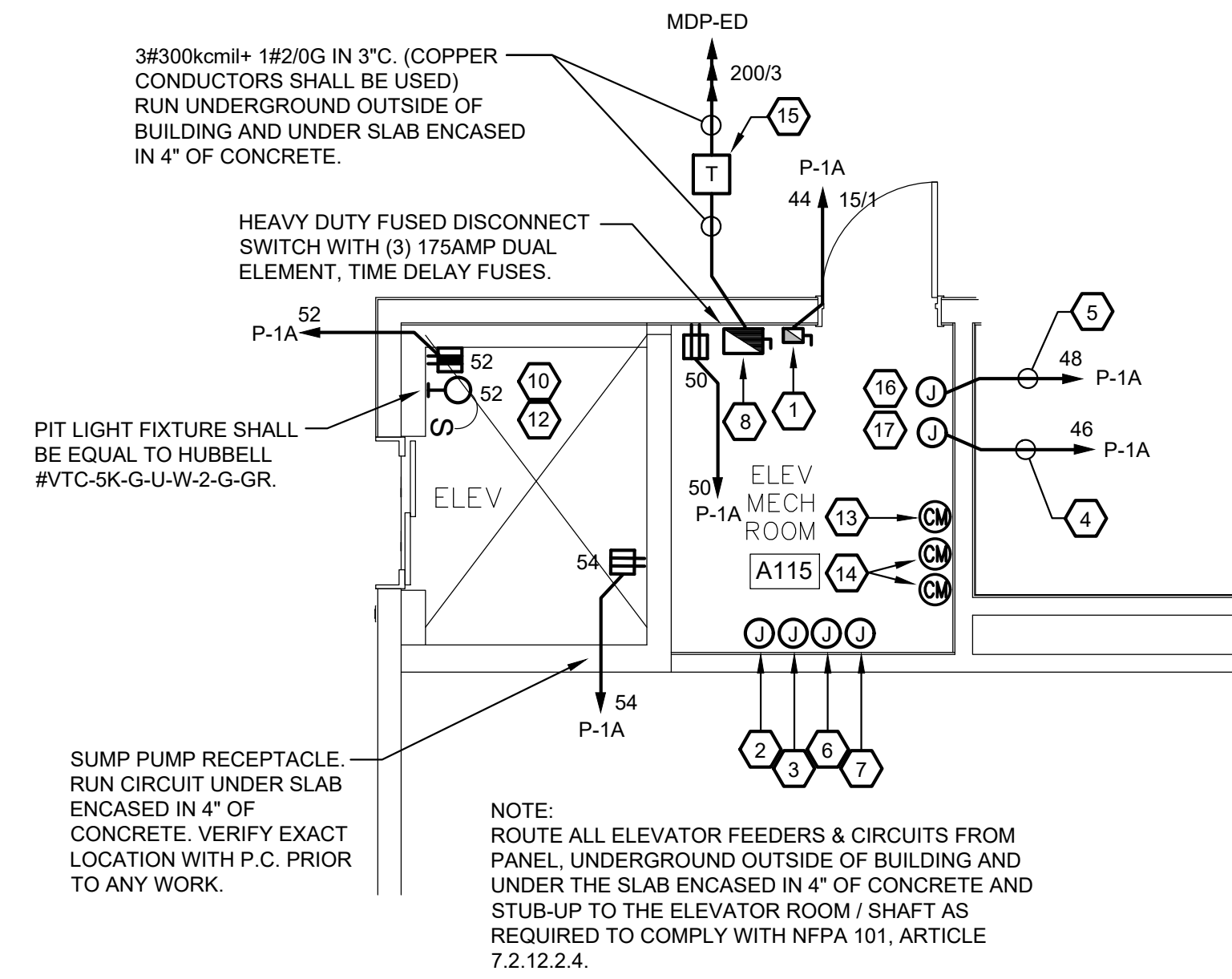
DRAWN BY: SPC	JOB NUMBER: 18050
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A-E2.3

SHEET: OF:

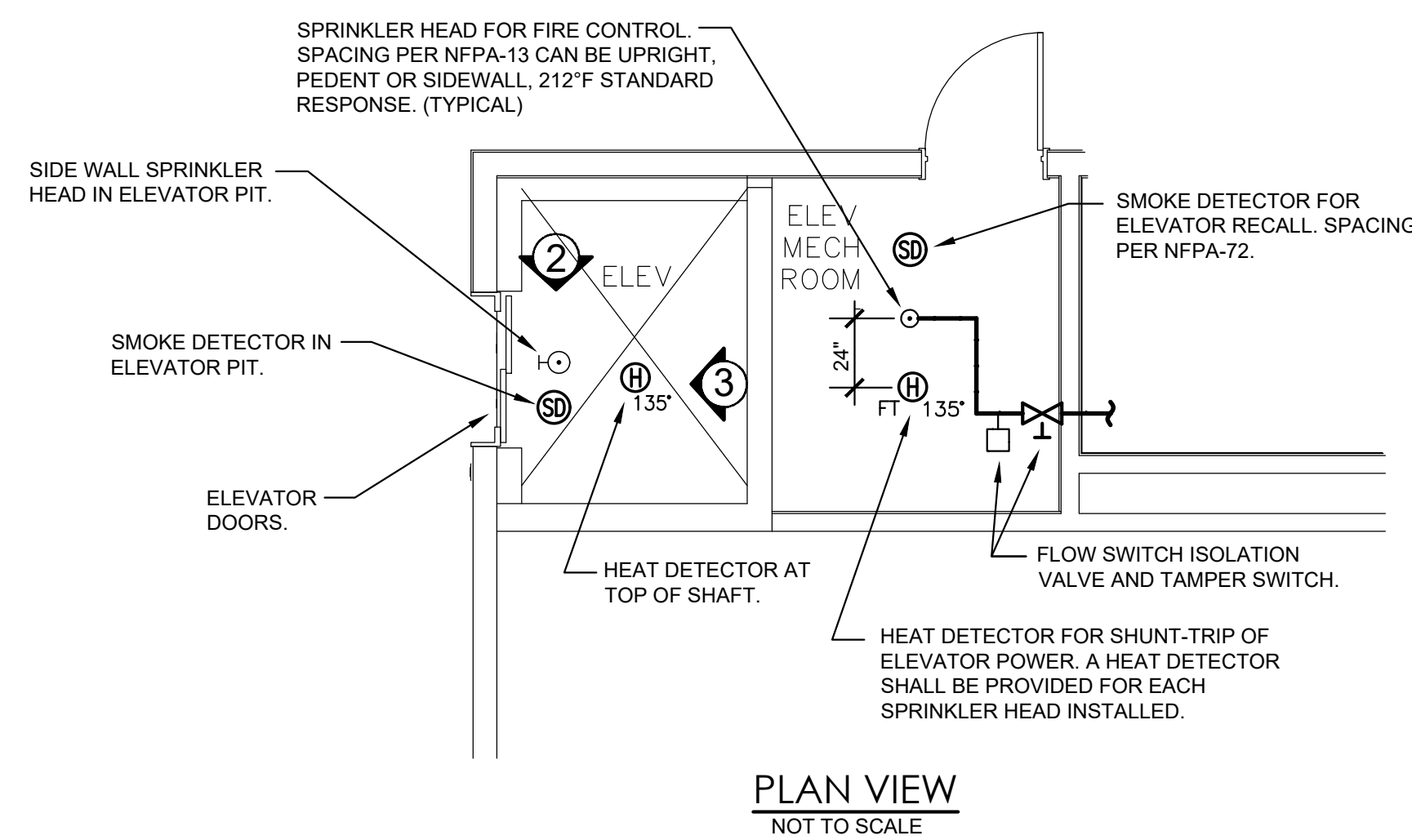
ELEVATOR MACHINE ROOM NOTES

- 1 FUSED DISCONNECT SWITCH WITH 120 VOLT CIRCUIT FOR CAB LIGHTS, FUSE SHALL BE 15 AMP. CONNECT CAB LIGHTING TO THE LINE SIDE OF THE MACHINE ROOM GFCI RECEPTACLE.
- 2 PROVIDE (1) JUNCTION BOX IN ELEVATOR MACHINE ROOM WITH 3/4" EMT CONDUIT TO TELEPHONE BACKBOARD FOR EACH ELEVATOR FOR CAB TELEPHONE. CONDUITS SHALL INCLUDE PULL STRING.
- 3 PROVIDE (1) JUNCTION BOX IN ELEVATOR MACHINE ROOM WITH 3/4" EMT CONDUIT & (4) #14 AWG FOR EACH ELEVATOR TO FIRE ALARM CONTROL PANEL FOR ELEVATOR CAPTURE.
- 4 PROVIDE 120 VOLT, 20 AMP CIRCUIT TO ELEVATOR CONTROLLER.
- 5 PROVIDE 120 VOLT, 20 AMP CIRCUIT FOR OIL HEATER.
- 6 PROVIDE (1) JUNCTION BOX WITH 3/4" C. TO TELEPHONE TERMINAL BOARD FOR EACH ELEVATOR FOR OFF SITE TELEPHONE MONITORING.
- 7 PROVIDE (1) JUNCTION BOX WITH 3/4" C. TO TELEPHONE TERMINAL BOARD FOR EACH ELEVATOR FOR INTERCOM.
- 8 E.C. SHALL PROVIDE A SET OF AUXILIARY CONTACTS WITH THE ELEVATOR DISCONNECT SWITCH AND WIRING TO THE ELEVATOR CONTROLLER. PER ANS/NFPA 70-1996, SECTION 620-91(c). THE AUXILIARY CONTACTS SHALL BE POSITIVELY OPEN WHEN THE DISCONNECT SWITCH IS OPEN. THE AUXILIARY CONTACTS SHALL CAUSE THE EMERGENCY RETURN UNIT POWER SOURCE TO BE DISCONNECTED FROM ITS LOAD WHEN THE DISCONNECTING MEANS IS IN THE OPEN POSITION.
- 9 E.C. SHALL PROVIDE WITH HEAT DETECTORS (USED TO AUTOMATICALLY DISCONNECT THE MAIN LINE POWER SUPPLY TO THE ELEVATOR PRIOR TO THE APPLICATION OF WATER FROM SPRINKLERS) A SET OF NORMALLY CLOSED CONTACTS WITH WIRING FROM THE HEAT DETECTOR TO A SHUNT TRIP CIRCUIT BREAKER IN THE PANEL SUPPLYING POWER TO THE ELEVATOR. THE NORMALLY CLOSED CONTACTS SHALL BE CLOSED WHEN THE HEAT DETECTOR IS NOT ACTIVATED AND SHALL BE OPENED WHEN THE HEAT DETECTOR IS ACTIVATED.
- 10 ALL ELECTRICAL EQUIPMENT, DEVICES, WIRING, RACEWAYS, JUNCTION BOXES, ETC. FOREIGN TO THE ELEVATOR SHALL NOT BE INSTALLED IN THE ELEVATOR MACHINE ROOM OR HOISTWAY. (TYPICAL)
- 11 IN HOISTWAYS, ALL ELECTRICAL EQUIPMENT LOCATED LESS THAN 48-INCHES ABOVE THE PIT FLOOR SHALL BE WEATHERPROOF (NEMA 4); AND WIRING SHALL BE IDENTIFIED FOR USE IN WET LOCATIONS IN ACCORDANCE WITH THE REQUIREMENTS IN NFPA 70. (TYPICAL)
- 12 LIGHTING IN HOISTWAYS SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE GFCI RECEPTACLE. LOCATE LIGHT FIXTURE TO AVOID BEING STRUCK BY THE ELEVATOR CAR OR COUNTERWEIGHT. THE SWITCH SHALL BE LOCATED SO AS TO BE READILY ACCESSIBLE FROM THE PIT DOOR.
- 13 PROVIDE FIRE ALARM SYSTEM CONNECTIONS FOR ELEVATOR CAB "FIRE-FIGHTERS HAT" INDICATOR AS REQUIRED. COORDINATE CONNECTION REQUIREMENTS WITH ELEVATOR AND FIRE ALARM SYSTEM MANUFACTURERS AS REQUIRED.
- 14 PROVIDE CONTROL MODULES THAT SHALL CAPTURE THE ELEVATOR WHEN THE FIRE ALARM SYSTEM IS ACTIVATED AND THEREFORE BRING THE ELEVATOR CAB TO A PRE-DETERMINED FLOOR & ALTERNATE FLOOR AS REQUIRED. COORDINATE WITH ELEVATOR MANUFACTURER & INSTALLER FOR CONNECTIONS AND PROGRAMMING. COORDINATE WITH FIRE DEPARTMENT & ARCHITECT FOR PRE-DETERMINED FLOOR AND ALTERNATE FLOOR.
- 15 ELEVATOR SHALL BE PROVIDED WITH A 208V INPUT / 208V OUTPUT ISOLATION TRANSFORMER FOR THE PURPOSES OF REDUCING THE AVAILABLE FAULT CURRENT AHEAD OF THE ELEVATOR EQUIPMENT TO BELOW THE SHORT CIRCUIT CURRENT RATING (SCCR) OF THE ELEVATOR EQUIPMENT.
- 16 E.C. SHALL COORDINATE & PROVIDE EMERGENCY STANDBY SYSTEM AUTOMATIC TRANSFER SWITCH (ATS) AND ELEVATOR CONTROLLER INTERFACE IN ACCORDANCE WITH BOTH SYSTEMS MANUFACTURER'S REQUIREMENTS. THE ATS SHALL HAVE TWO SETS OF NORMALLY CLOSED DRY CONTACTS, ONE TO BE OPEN WHEN THE SWITCH IS IN THE EMERGENCY (STANDBY) POSITION, THE OTHER TO OPEN UPON INITIATION OF POWER TRANSFER AND TO CLOSE WHEN TRANSFER IS COMPLETE. SWITCH SHALL HAVE AN INHERENT FUNCTION WHICH WILL DELAY TRANSFER TO NORMAL AND/OR EMERGENCY (STANDBY) POWER BY ADJUSTABLE PERIOD OF 0 - 300 SECONDS. SWITCH SHALL HAVE A PHASE MONITOR FEATURE, WHICH PROHIBITS THE TRANSFER OF POWER BETWEEN "LIVE" SOURCES UNLESS THE SOURCES ARE IN PHASE WITH EACH OTHER. IF A SHUNT-TRIP DEVICE IS PROVIDED, AN ADDITIONAL NORMALLY CLOSED CONTACT, WITH ALL ASSOCIATED WIRING AND CONDUIT TO CONTROLLER, IS REQUIRED FROM EMERGENCY (STANDBY) POWER SOURCE. THE EMERGENCY (STANDBY) POWER SYSTEM PROVIDED SHALL COMPLY WITH ANS/NFPA 70 REQUIREMENTS 620.91.
- 17 E.C. SHALL PROVIDE WIRING FROM ANY AND ALL HOISTWAY ACCESS DOORS TO THE CORRESPONDING ELEVATOR CONTROLLER. PER ANS 2 11.1, ASME A17.1, NFPA 70-SECTION 620 FOR THE PURPOSE OF PREVENTING THE OPERATION OF THE DRIVING MACHINE UNLESS THE ACCESS PANELS OR DOORS ARE CLOSED AND LOCKED. THE E.C. SHALL COORDINATE WITH THE ELEVATOR SUPPLIER AND VERIFY EXACT WIRING AND CONNECTION REQUIREMENTS PRIOR TO ANY WORK.



PARTIAL PLAN: ELEVATOR ELECTRICAL

SCALE: 1/4" = 1'-0"

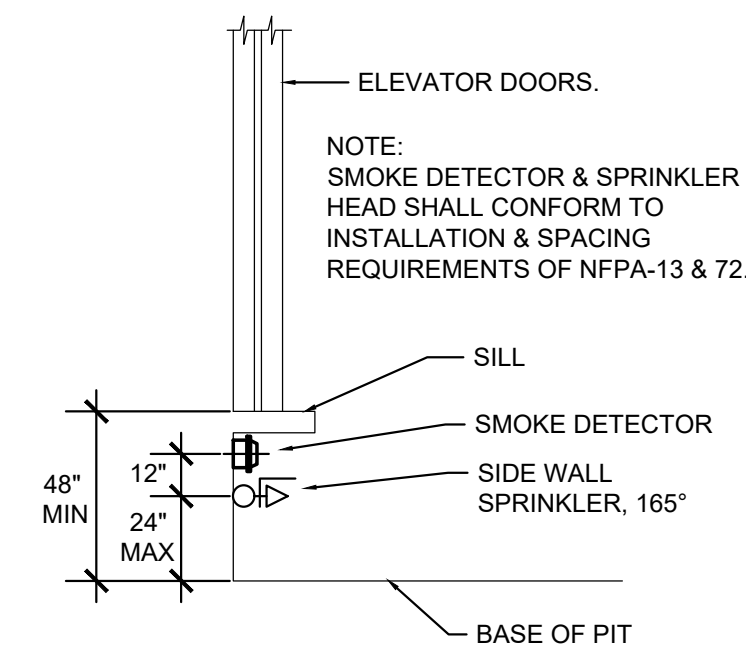


PLAN VIEW
NOT TO SCALE

ELEVATOR/FIRE ALARM SEQUENCE OF OPERATION

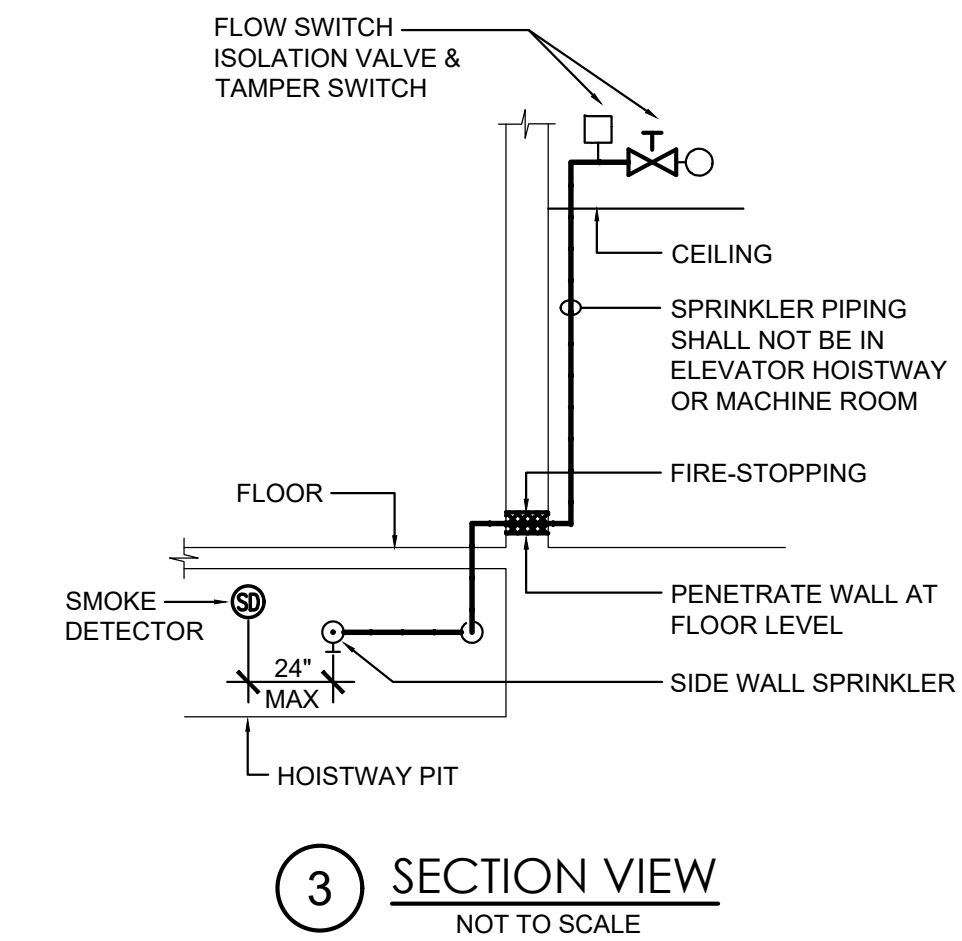
THE FLOW-SWITCH ISOLATION VALVE, SMOKE DETECTOR AND HEAT DETECTOR ASSOCIATED WITH THE ELEVATOR MACHINE ROOM SHALL BE WIRED AS REQUIRED PER THE FIRE ALARM MANUFACTURERS RECOMMENDATIONS TO HAVE THE FOLLOWING SEQUENCE OF OPERATION:

1. THE SMOKE DETECTOR SHALL CAPTURE THE ELEVATOR WHEN THE FIRE ALARM SYSTEM IS ACTIVATED AND THEREFORE BRING THE ELEVATOR TO A PREDETERMINED FLOOR OR ALTERNATE FLOOR AS REQUIRED (COORDINATE WITH ELEVATOR MANUFACTURER & INSTALLER).
2. IF THE HEAT DETECTOR IN THE ELEVATOR MACHINE ROOM IS ACTIVATED THEN THE FOLLOWING SHALL BE REQUIRED:
 - a) THE REQUIREMENTS OF NOTE 1 ABOVE.
 - b) THE HEAT DETECTOR SHALL BE WIRED TO CAUSE THE TERMINATION OF POWER TO THE LINE SIDE OF THE ELEVATOR DISCONNECT SWITCH. THE DISCONNECT SWITCH SHALL BE INDEPENDENT OF THE ELEVATOR CONTROLS AND NOT BE SELF-RESETTING.
 - c) ONCE THE REQUIREMENTS OF "a" AND "b" DESCRIBED ABOVE ARE COMPLETED AND THE ELEVATOR DOORS ARE OPEN AT THE PREDETERMINED FLOOR, A RELAY WITHIN THE FACP STARTS TIMING FOR APPROXIMATELY 30 SECONDS (EXACT TIME TO BE FIELD VERIFIED WITH LOCAL AUTHORITY HAVING JURISDICTION). UPON THE ELAPSING OF THE 30 SECONDS THE FLOW-SWITCH ISOLATION VALVE SHALL BE TRANSFERRED TO ALLOW THE FLOW OF WATER WITHIN THE ELEVATOR MACHINE ROOM.



SECTION VIEW
NOT TO SCALE

TYPICAL ELEVATOR MACHINE RM & PIT
NOT TO SCALE



SECTION VIEW
NOT TO SCALE



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SHEET TITLE

**ELECTRICAL
ELEVATOR PART
PLAN & NOTES**

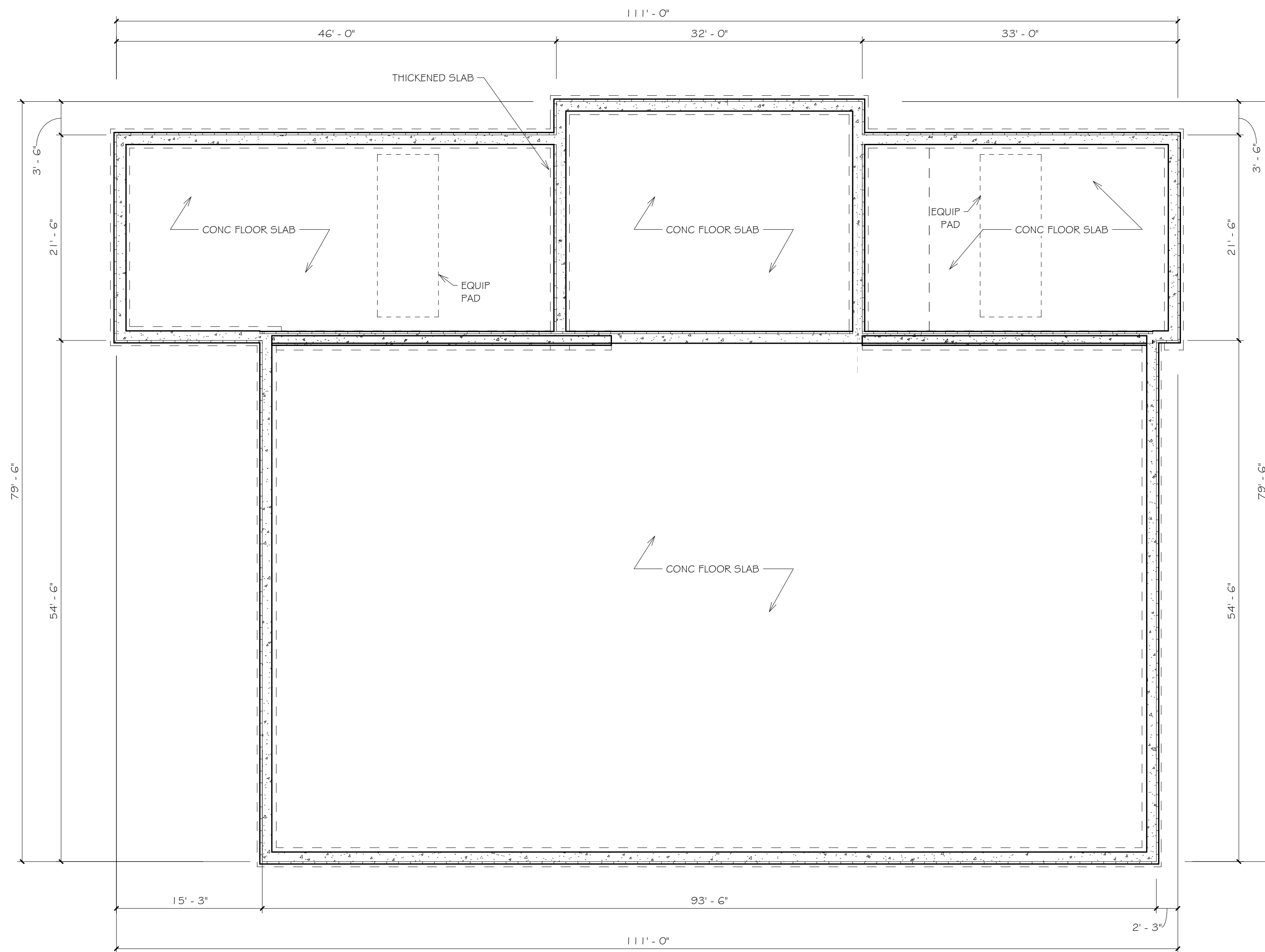
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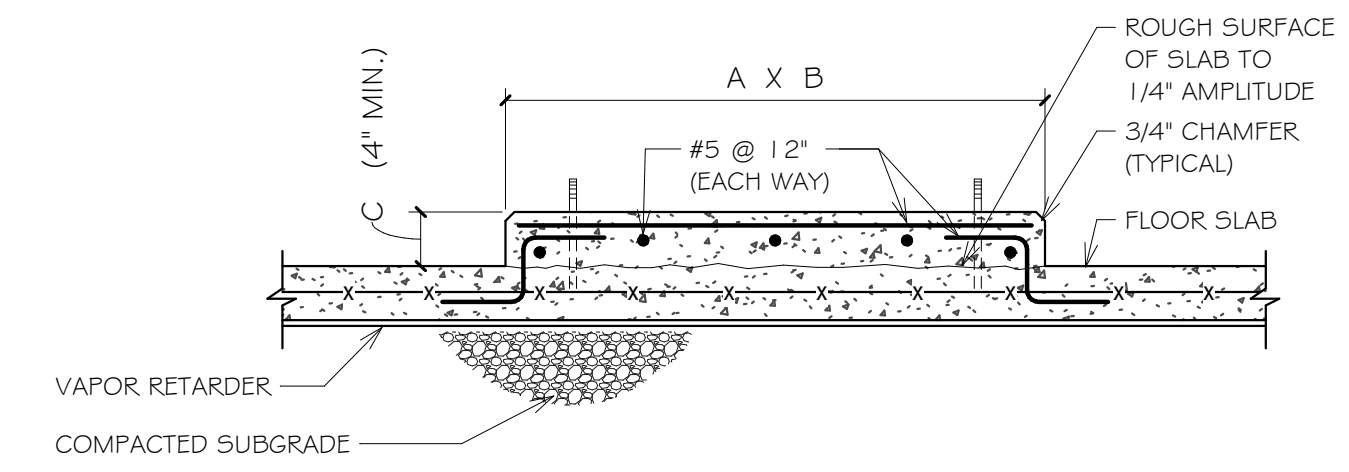
A-E2.4

SHEET: OF:

GENERAL NOTE:
 - THE ARCHITECTURAL FOUNDATION PLAN IS FOR DIMENSIONS & ARCHITECTURAL DETAILING ONLY. SEE PRE-ENGINEERED BUILDING MANUFACTURED DRAWINGS

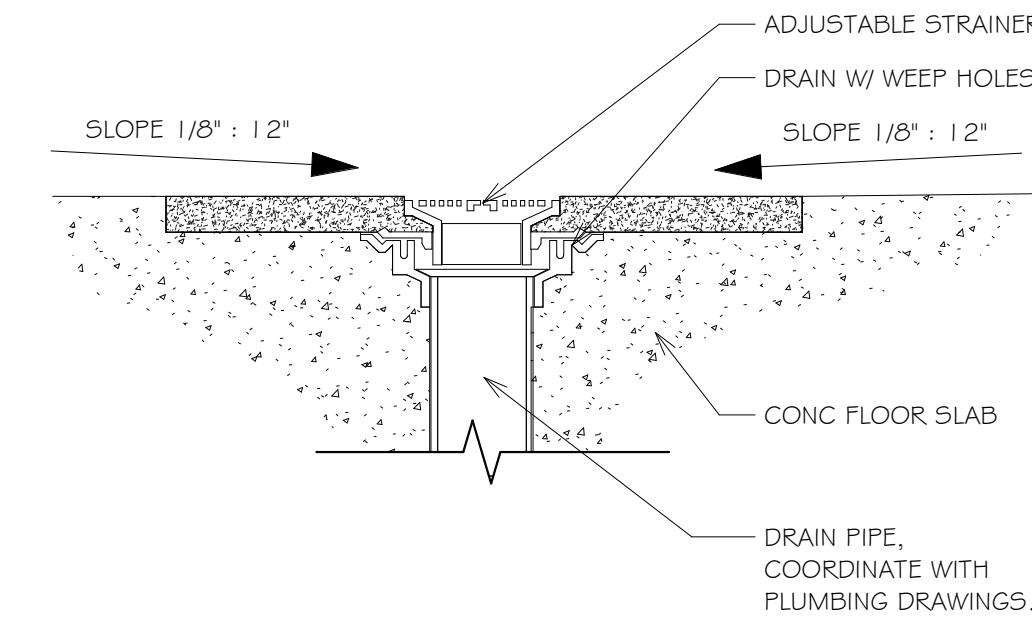


1 FOUNDATION PLAN
 B-A1.0 1/8" = 1'-0"

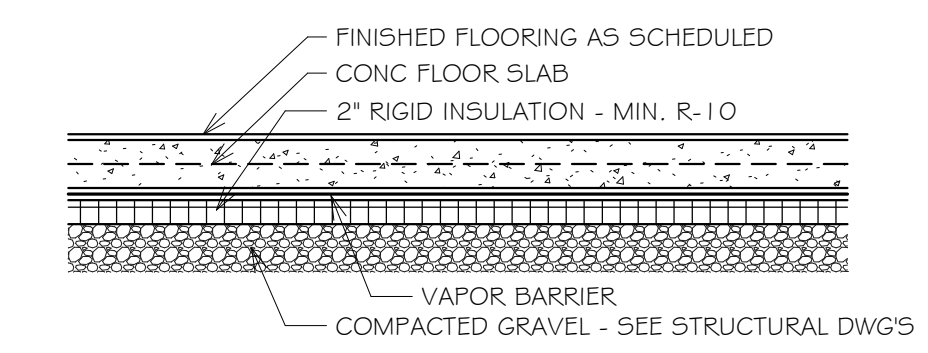


NOTES:
 1. LOCATION, SIZE OF PAD (A, B & C DIMENSIONS), AND ANCHOR RODS AS REQUIRED BY EQUIPMENT MANUFACTURER. DRILLED IN EPOXY ANCHORS MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. ANCHOR RODS TO BE PROVIDED BY THE CONCRETE CONTRACTOR.

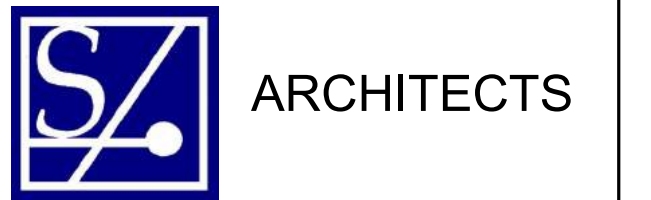
2 RAISED EQUIPMENT PAD-SLAB-ON-GRADE
 B-A1.0 3/4" = 1'-0"



3 TYPICAL FLOOR DRAIN DETAIL
 B-A1.0 3" = 1'-0"



4 UNDERSLAB INSULATION DETAIL
 B-A1.0 3/4" = 1'-0"



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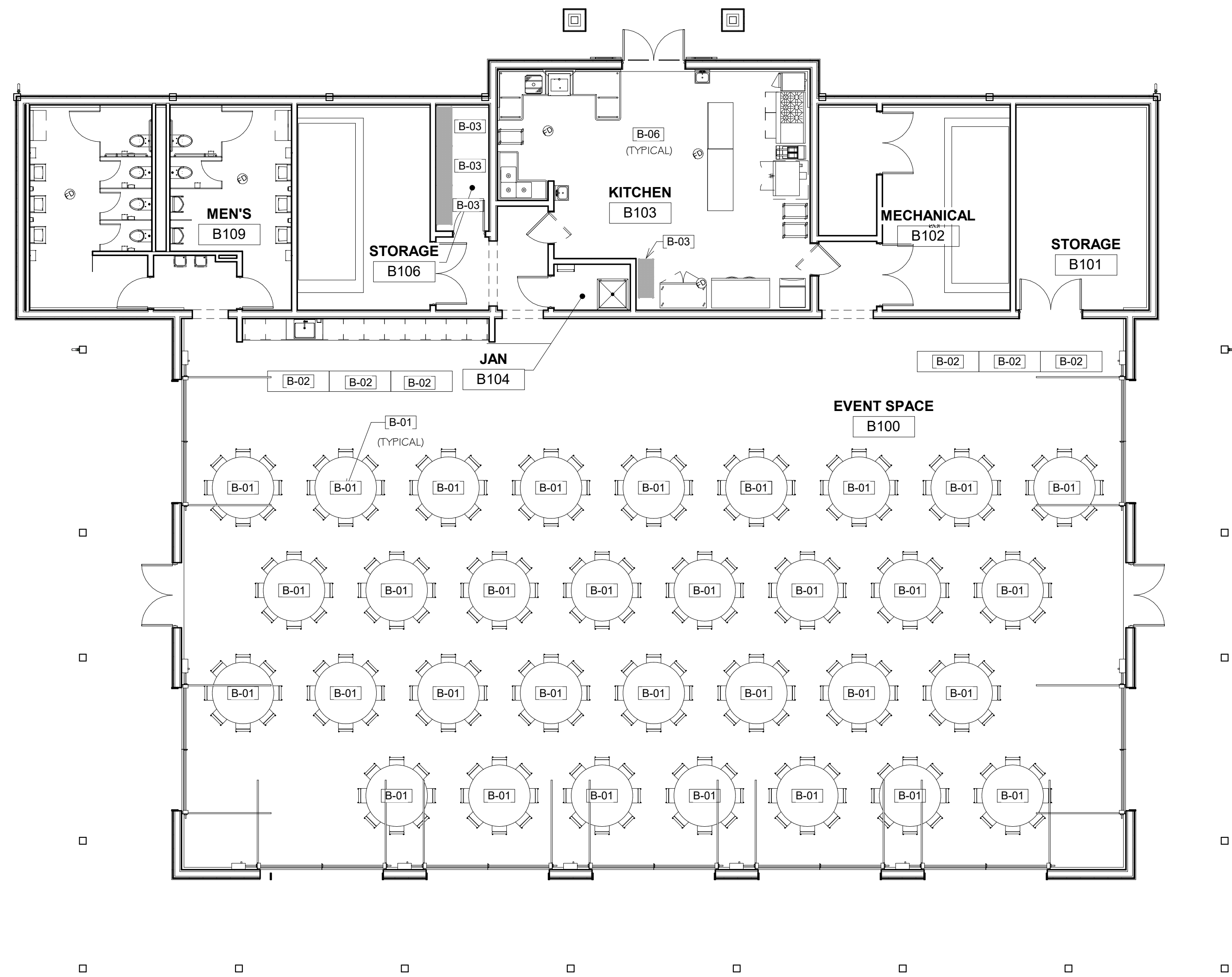
Revision Number	Revision Date

SHEET TITLE
FOUNDATION PLAN

DRAWN BY: KR JOB NUMBER: 18050
 CHECKED BY: MS DATE: 04-17-2024

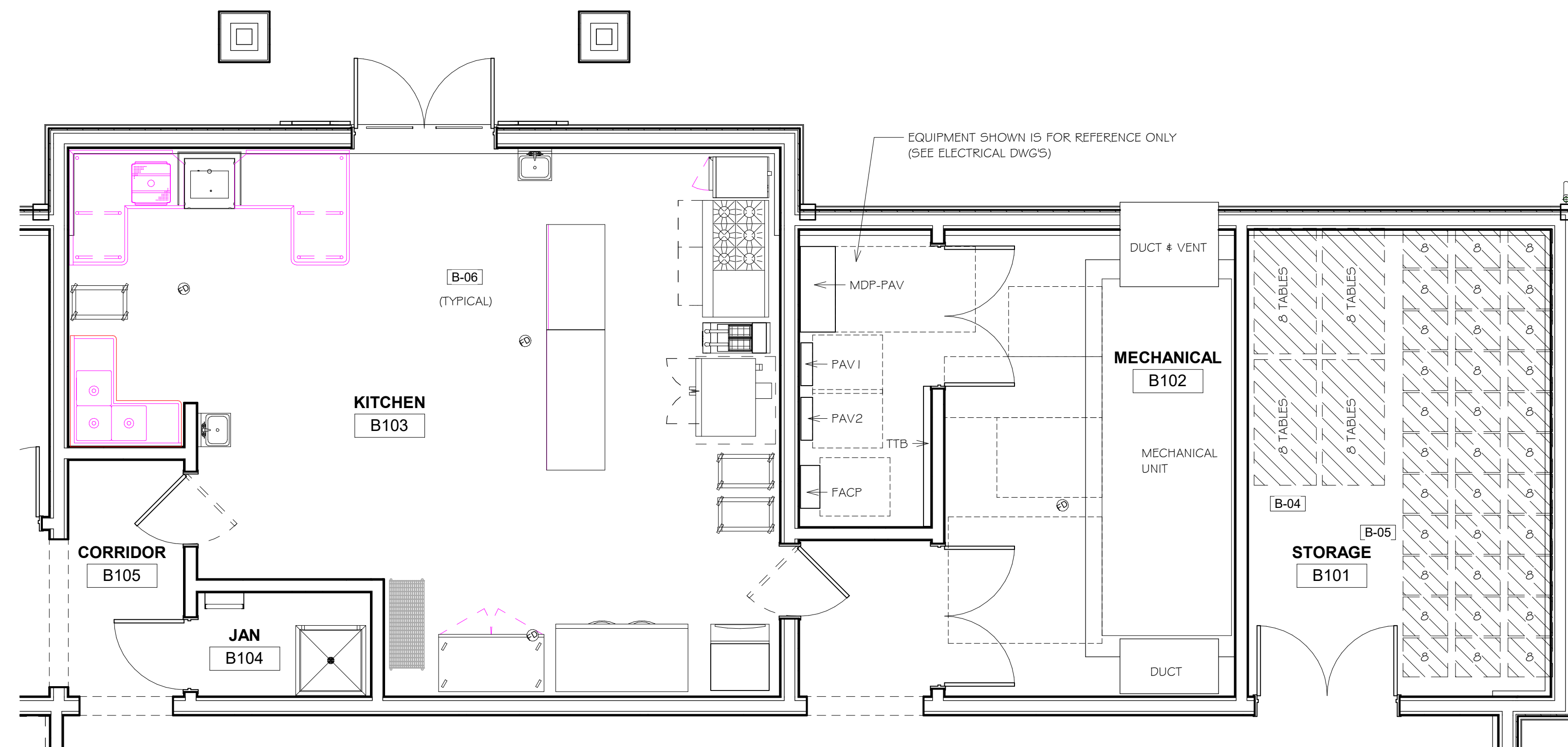
B-A1.0

SHEET: OF:



FURNITURE # EQUIPMENT SCHEDULE					
KEYNOTE	DESCRIPTION	FURNISHED BY	INSTALLED BY	FUNDED BY	COMMENTS
B-01	TABLE # CHAIRS	OWNER	GC	ALLOWANCE	
B-02	SERVING TABLES	OWNER	GC	ALLOWANCE	
B-03	WIRE SHELVES (24"x48")	OWNER	GC	ALLOWANCE	
B-04	TABLE STORAGE CARTS	OWNER	GC	ALLOWANCE	
B-05	CHAIR STORAGE CARTS	OWNER	GC	ALLOWANCE	
B-06	KITCHEN EQUIPMENT	OWNER	GC	OWNER	

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



2 ENLARGED KITCHEN & MECHANICAL ROOM
1/4" = 1'-0"

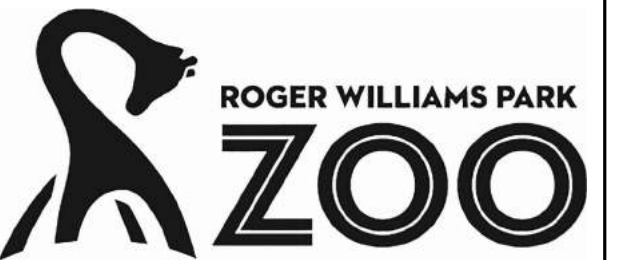


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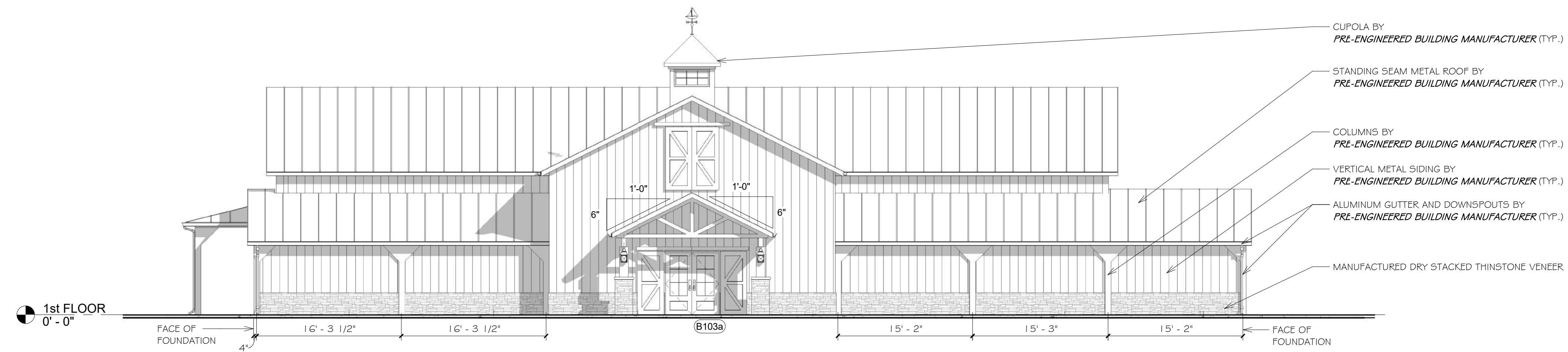
Revision Number	Revision Date

SHEET TITLE
FURNITURE PLAN

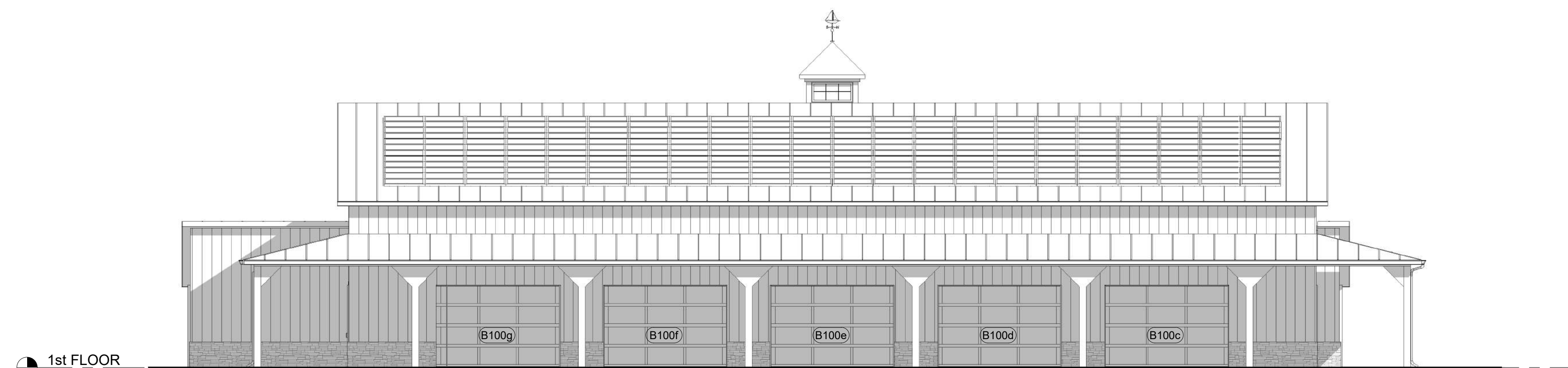
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CHECKED BY: Checker DATE: 04-17-2024

B-A1.2

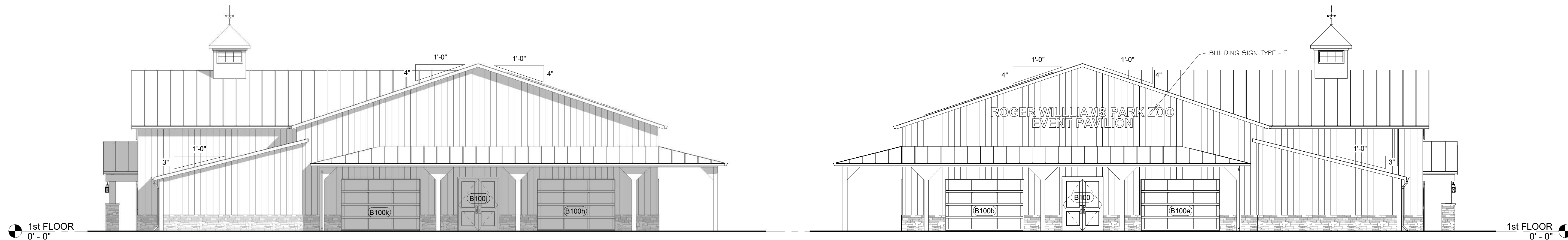
SHEET: OF:



1 NORTH ELEVATION
B-A2.1 1/8" = 1'-0"



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



3 EAST ELEVATION
B-A2.1 1/8" = 1'-0"

4 WEST ELEVATION
B-A2.1 1/8" = 1'-0"

EXTERIOR ELEVATION NOTES

1. PROVIDE FLINTH BLOCKS BEHIND ALL EXTERIOR LIGHTING, VENTS, LOUVERS, PIPES AND OTHER PENETRATIONS THROUGH THE EXTERIOR WALLS. SEE TYPICAL FLINTH BLOCK DETAILS.
2. FIRST FLOOR REFERENCE ELEVATION 2' - 0" = SURVEY ELEVATION 34'-3"
3. REFER TO OTHER SHEETS FOR WINDOW AND DOOR SCHEDULES AND DETAILS.
4. PROVIDE A CONTROL JOINT AT ALL MASONRY REENTRANT CORNERS.
5. COORDINATE FINAL LOCATIONS OF EXTERIOR HVAC UNITS, LOUVERS AND VENTS WITH ARCHITECT PRIOR TO ROUGH-IN INSTALLATION.

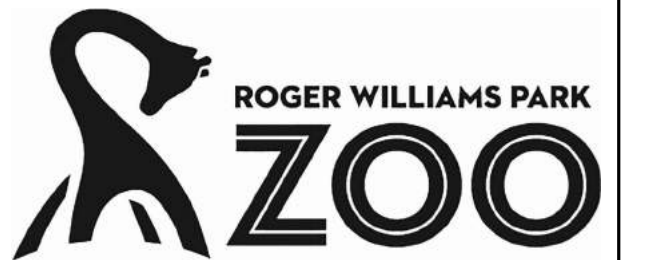


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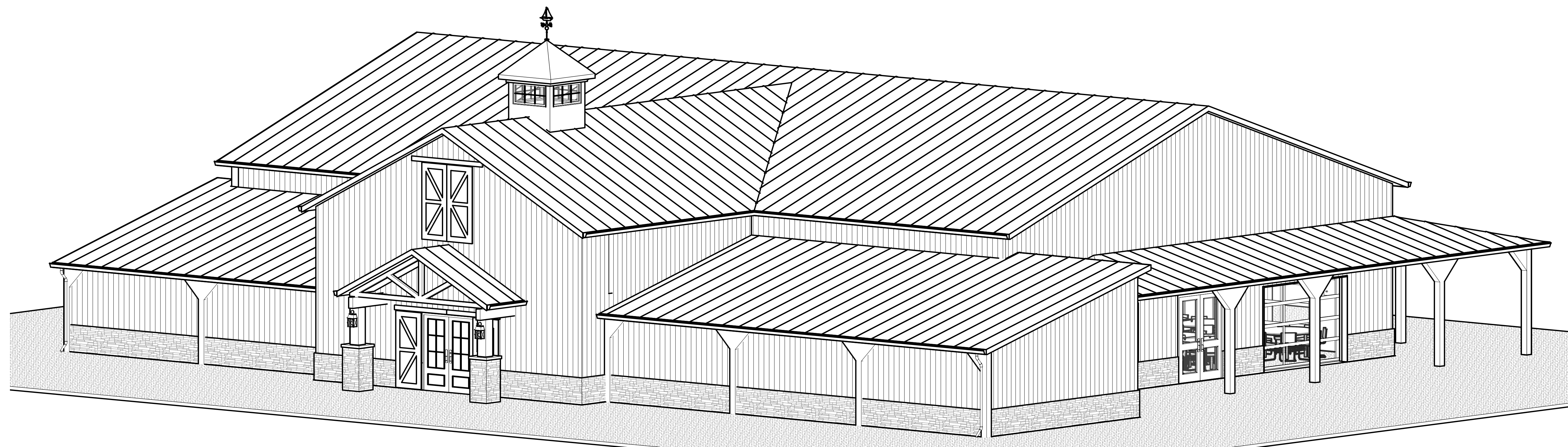
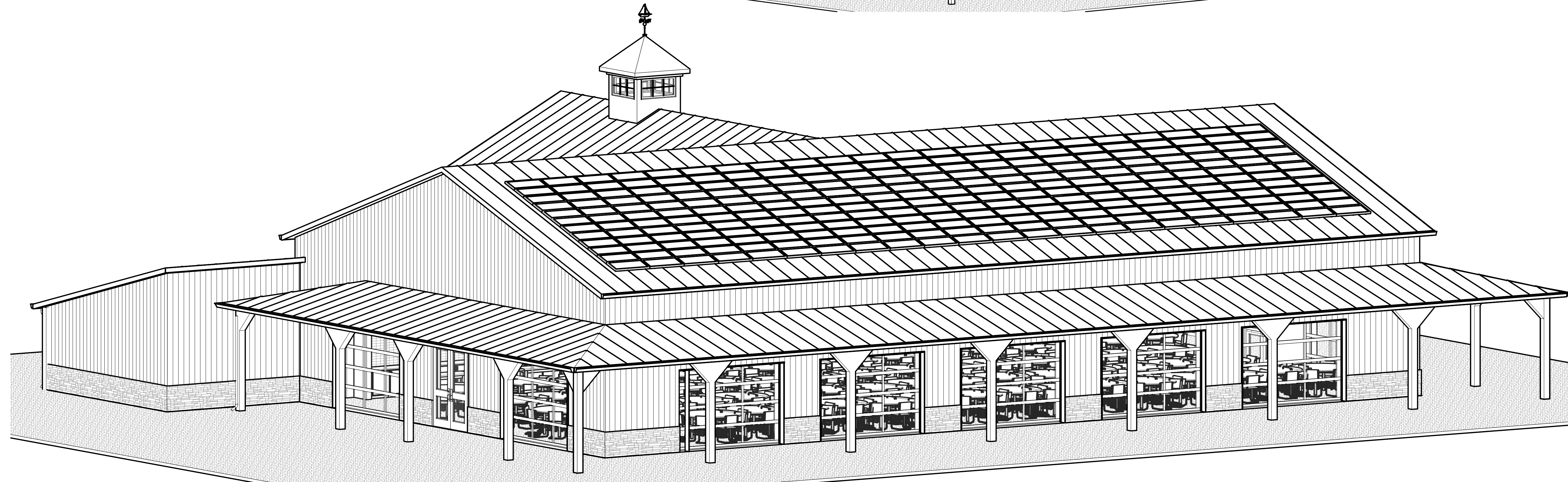
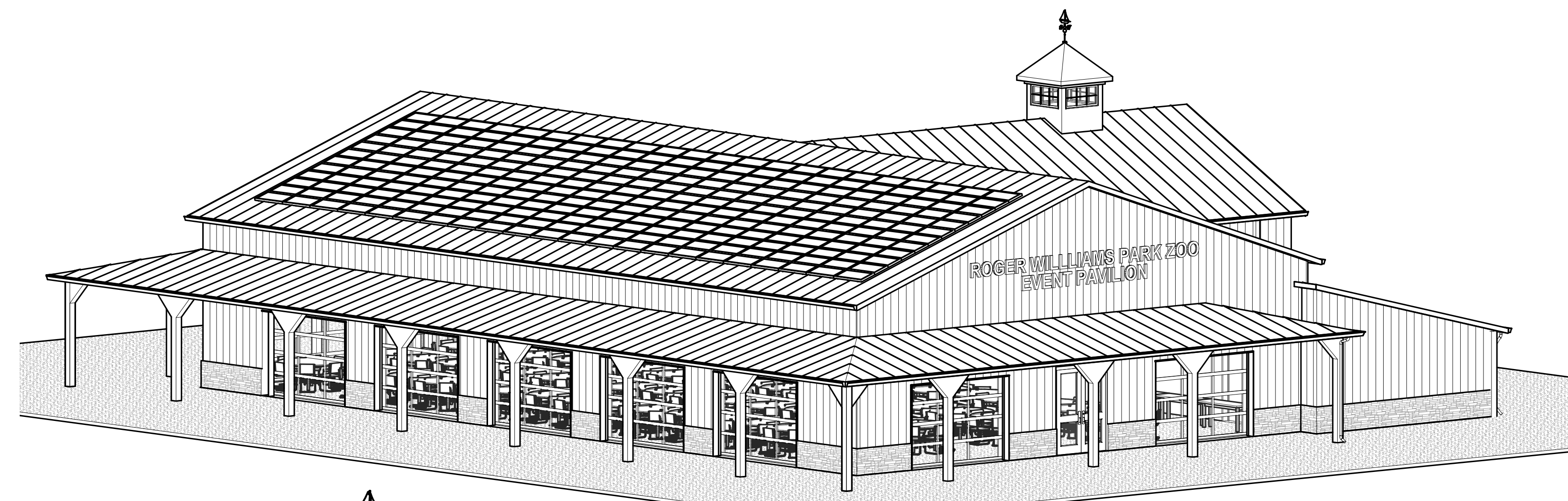
EXTERIOR ELEVATIONS

DRAWN BY: KC JOB NUMBER: 18050

CHECKED BY: MS DATE: 04-17-2024

B-A2.1

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1000 ELMWOOD AVENUE,
PROVIDENCE, RI 02907

Revision Schedule

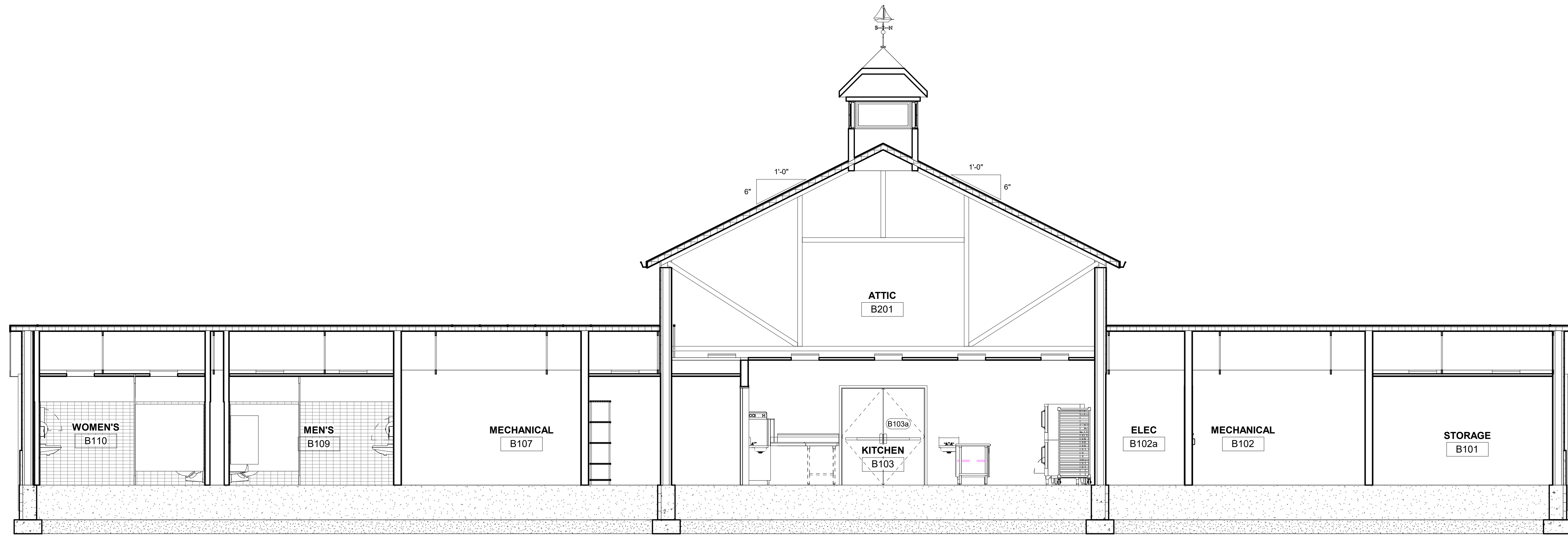
Revision Number	Revision Date

SHEET TITLE
3D Views

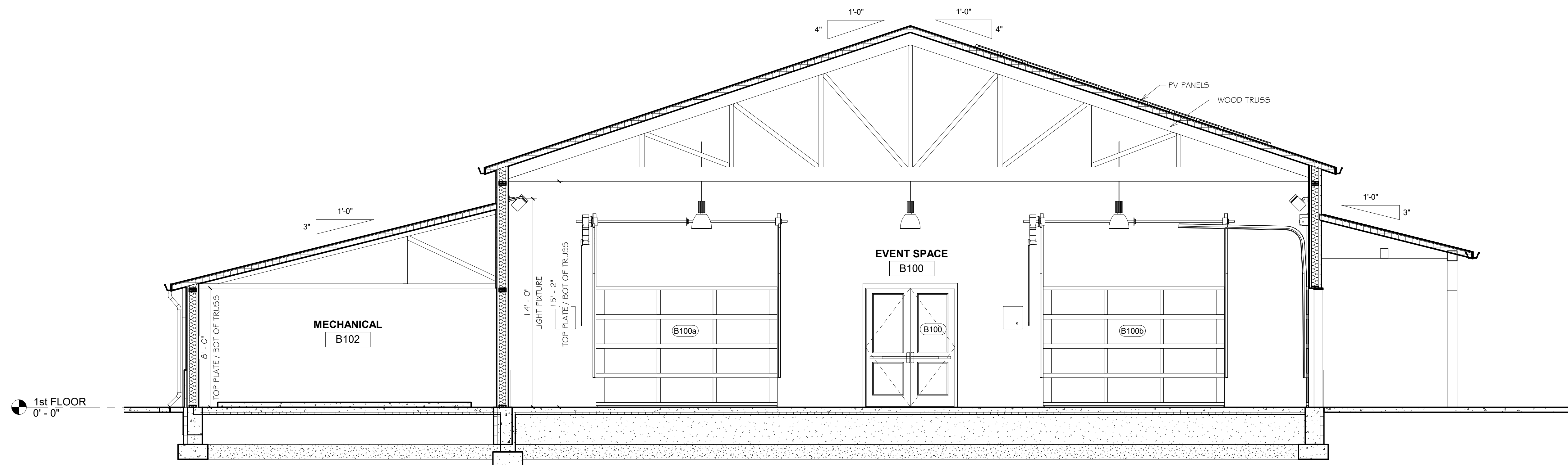
DRAWN BY: Author JOB NUMBER: 18050
CHECKED BY: Checker DATE: 04-17-2024

B-A2.2

SHEET: OF:



1 BUILDING SECTION
B-A3.0 1/4" = 1'-0"



1st FLOOR
0' - 0"

2 BUILDING SECTION
B-A3.0 1/4" = 1'-0"

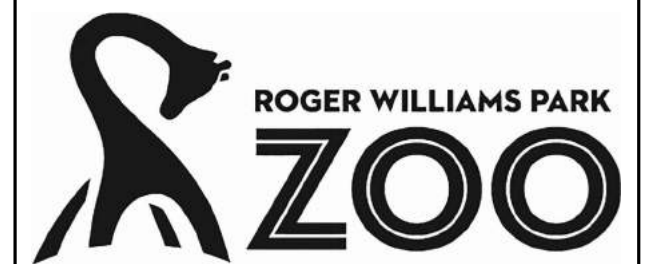


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Revision Schedule

Revision Number	Revision Date

SHEET TITLE
**BUILDING
SECTIONS**

DRAWN BY: KC JOB NUMBER: 18050
CHECKED BY: MS DATE: 04-17-2024

B-A3.0

SHEET: OF:

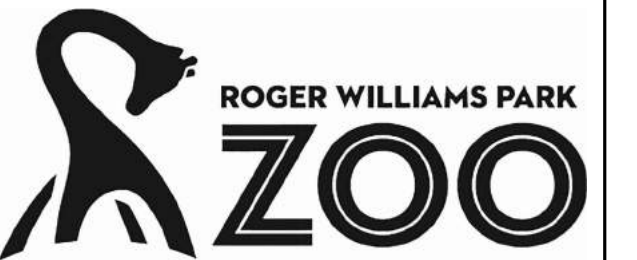


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Revision Number	Revision Date

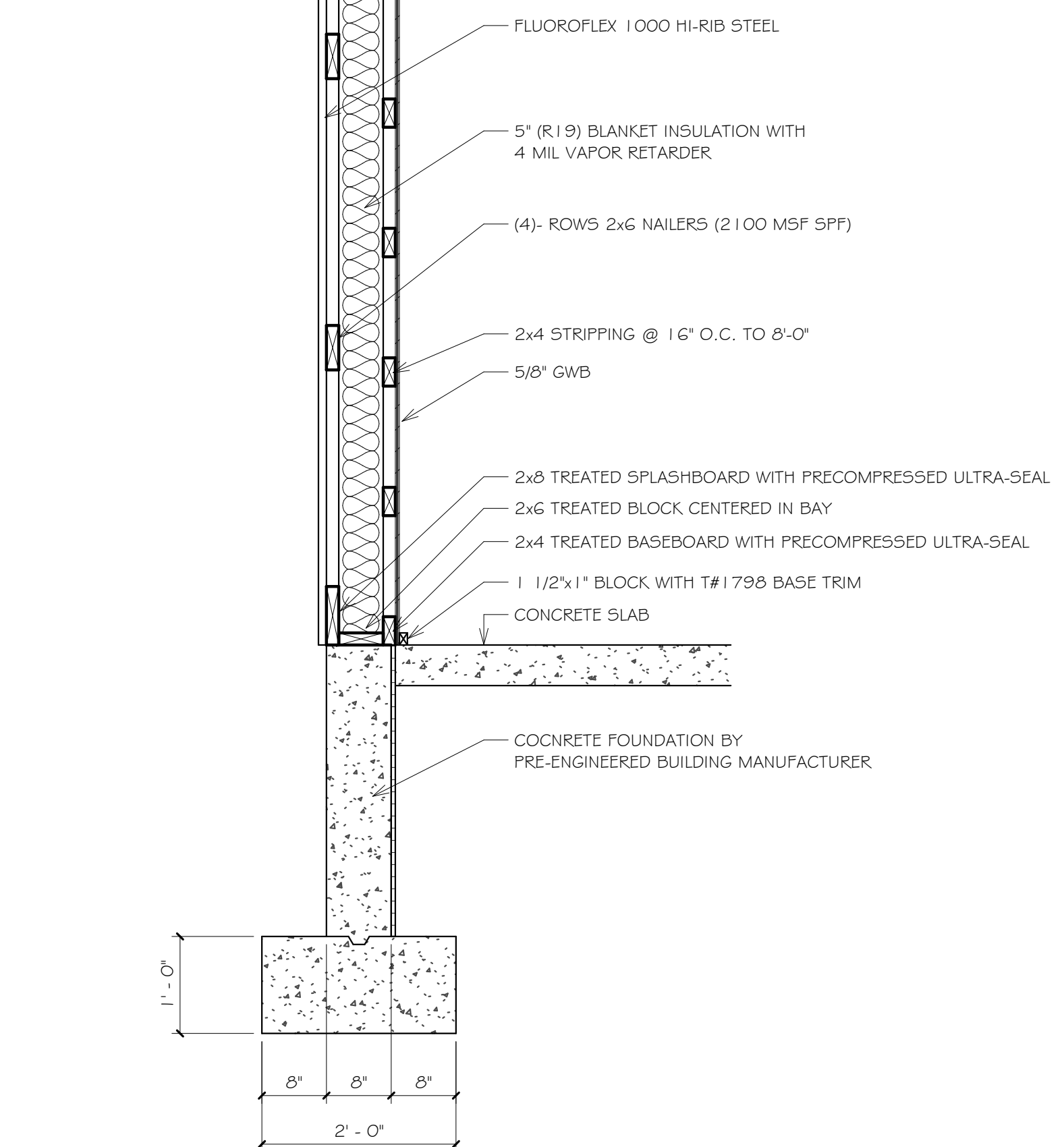
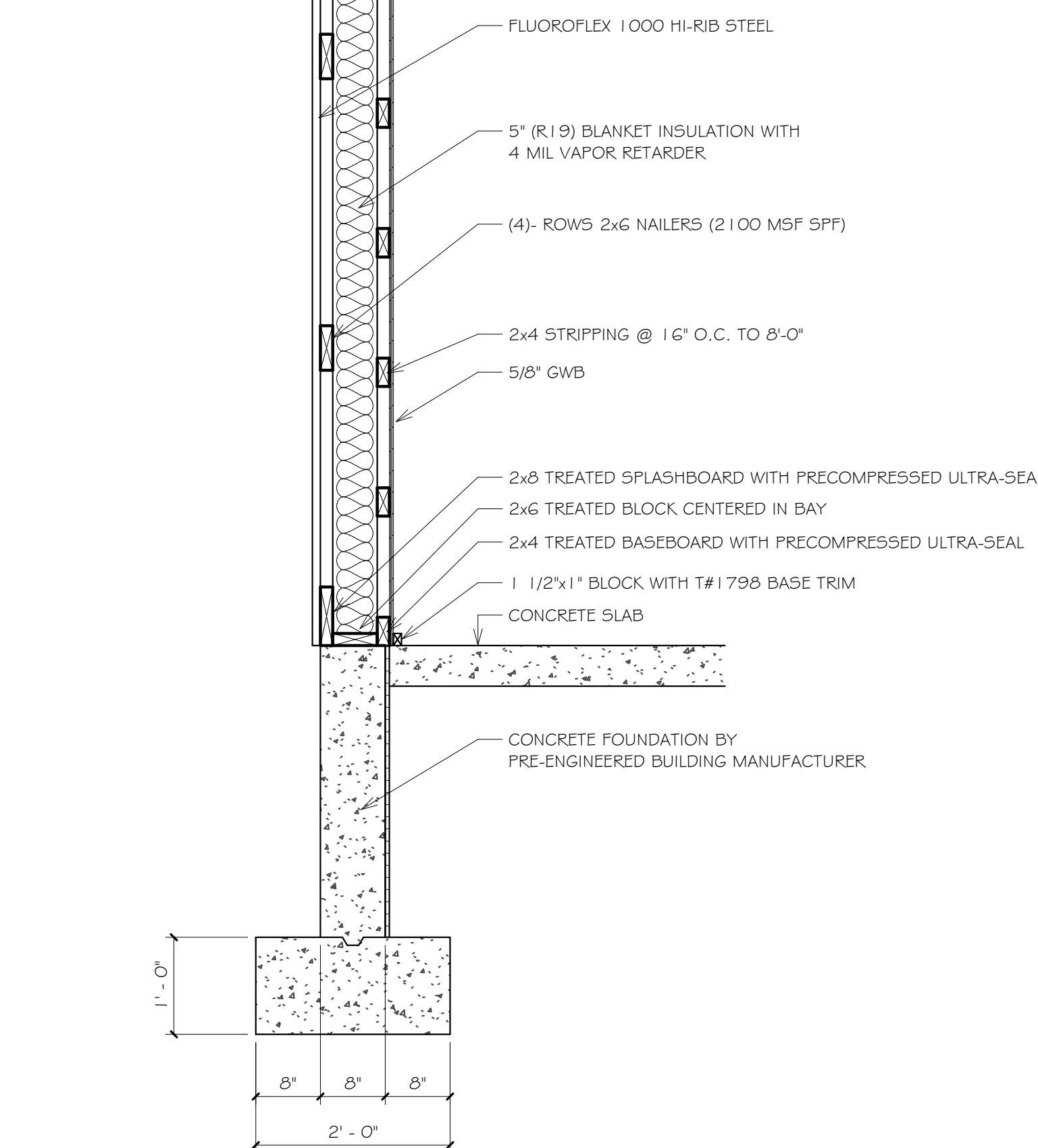
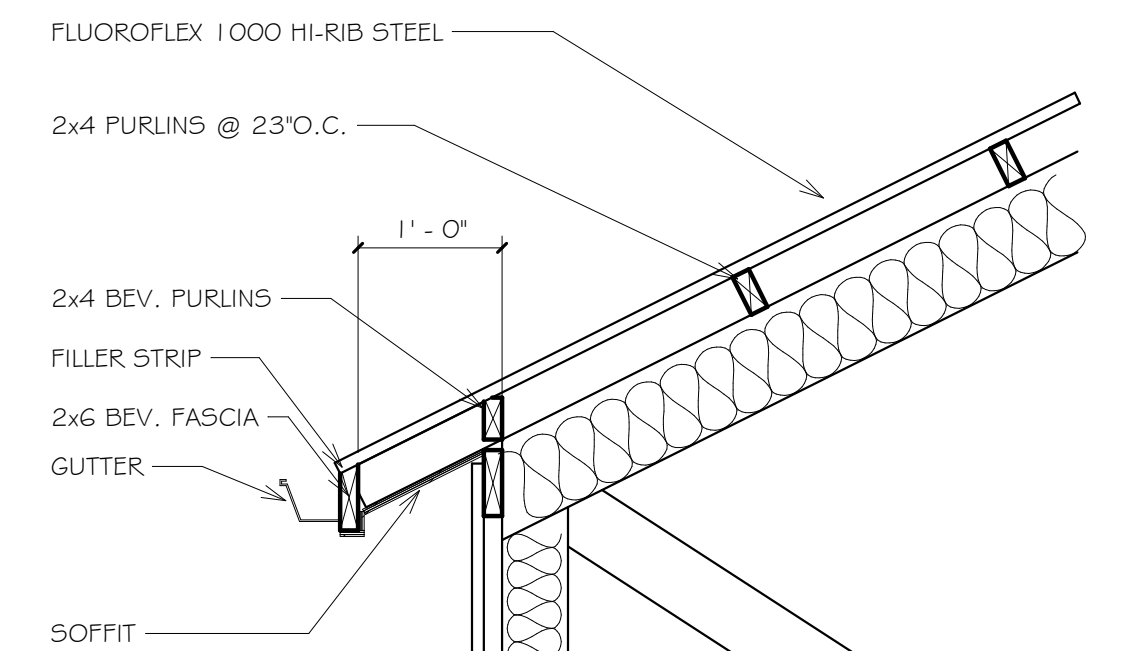
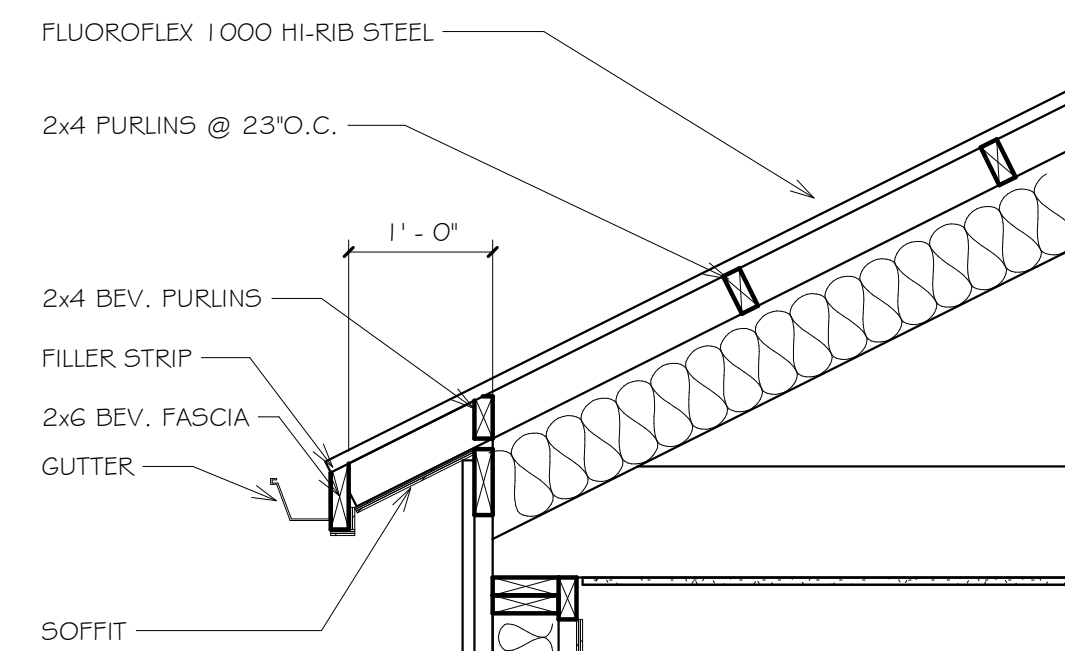
SHEET TITLE

WALL SECTIONS & DETAILS

DRAWN BY: KC JOB NUMBER: 18050
 CHECKED BY: MS DATE: 04-17-2024

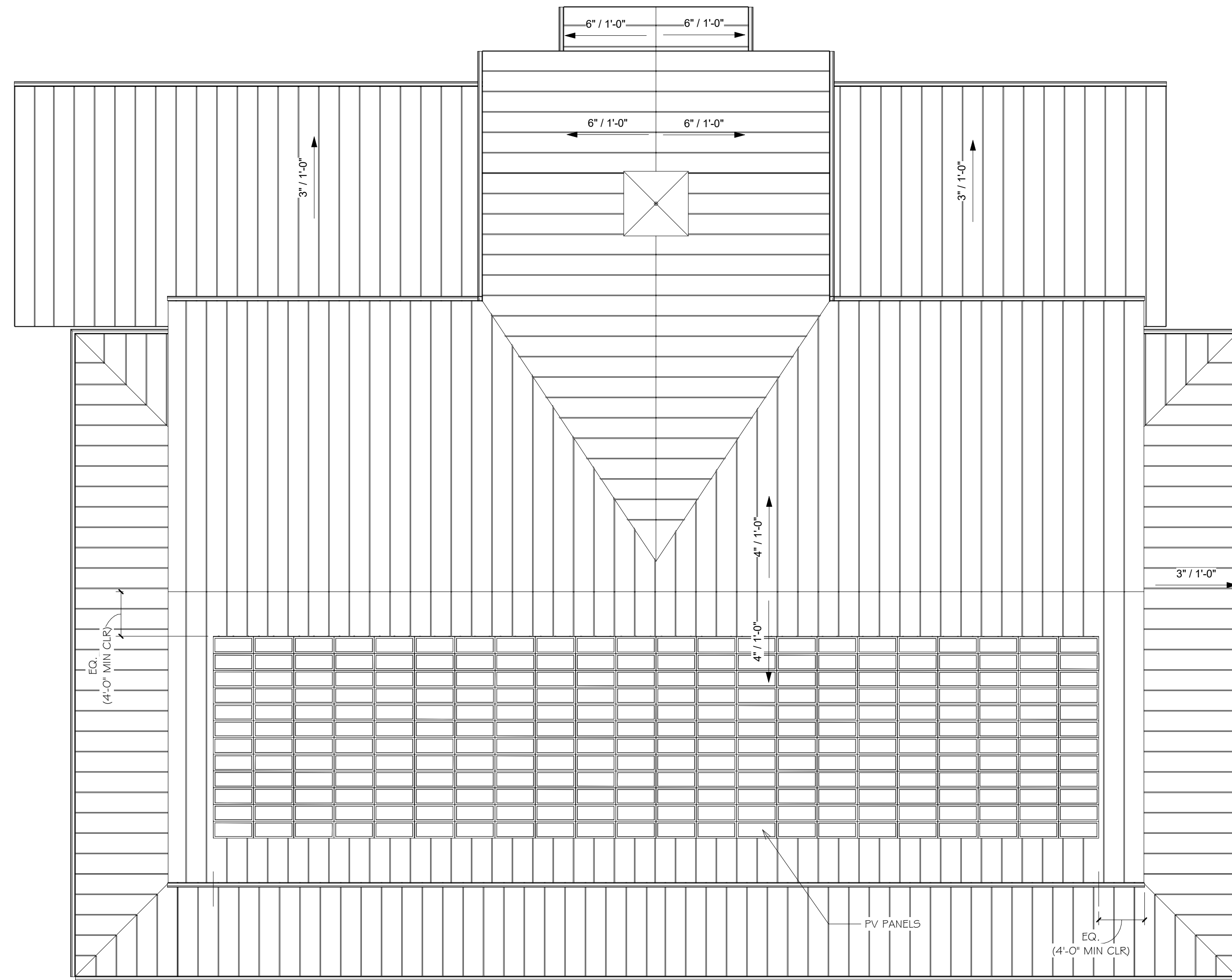
B-A3.1

SHEET: OF:



1 TYPICAL EXTERIOR WALL SECTION
 3/4" = 1'-0"

2 EXTERIOR WALL SECTION (AT ATTIC TRUSS)
 3/4" = 1'-0"



1
B-A5.0
ROOF PLAN
1/8" = 1'-0"

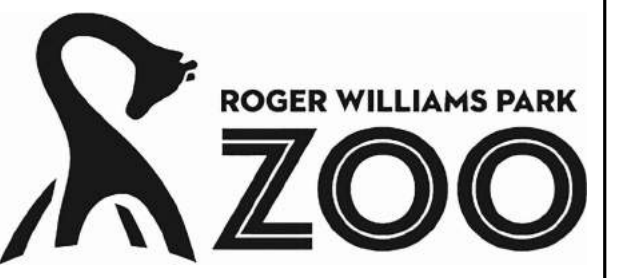


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Revision Schedule

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SHEET TITLE
ROOF PLAN & DETAILS

DRAWN BY: KC JOB NUMBER: 18050
CHECKED BY: MS DATE: 04-17-2024

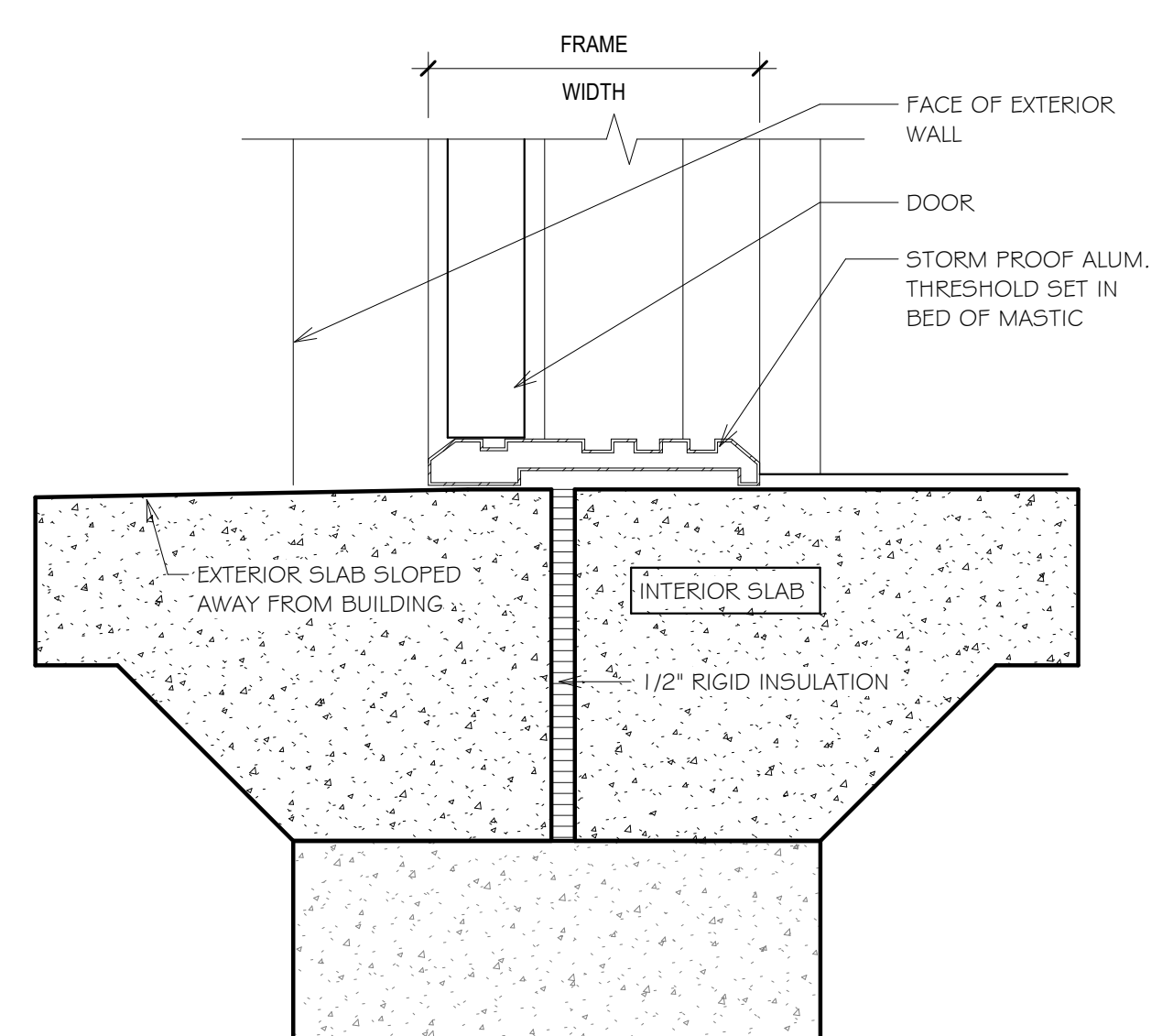
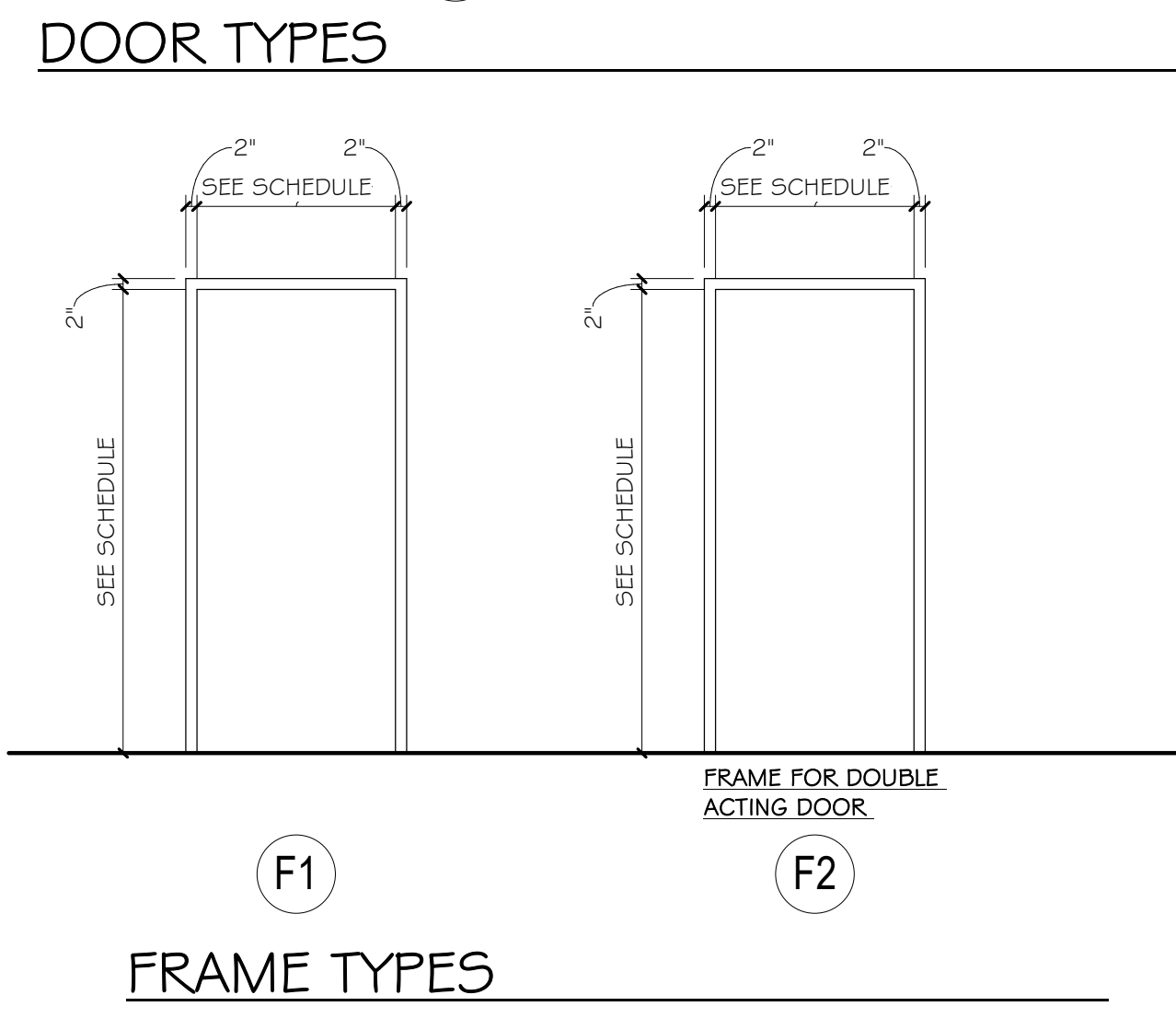
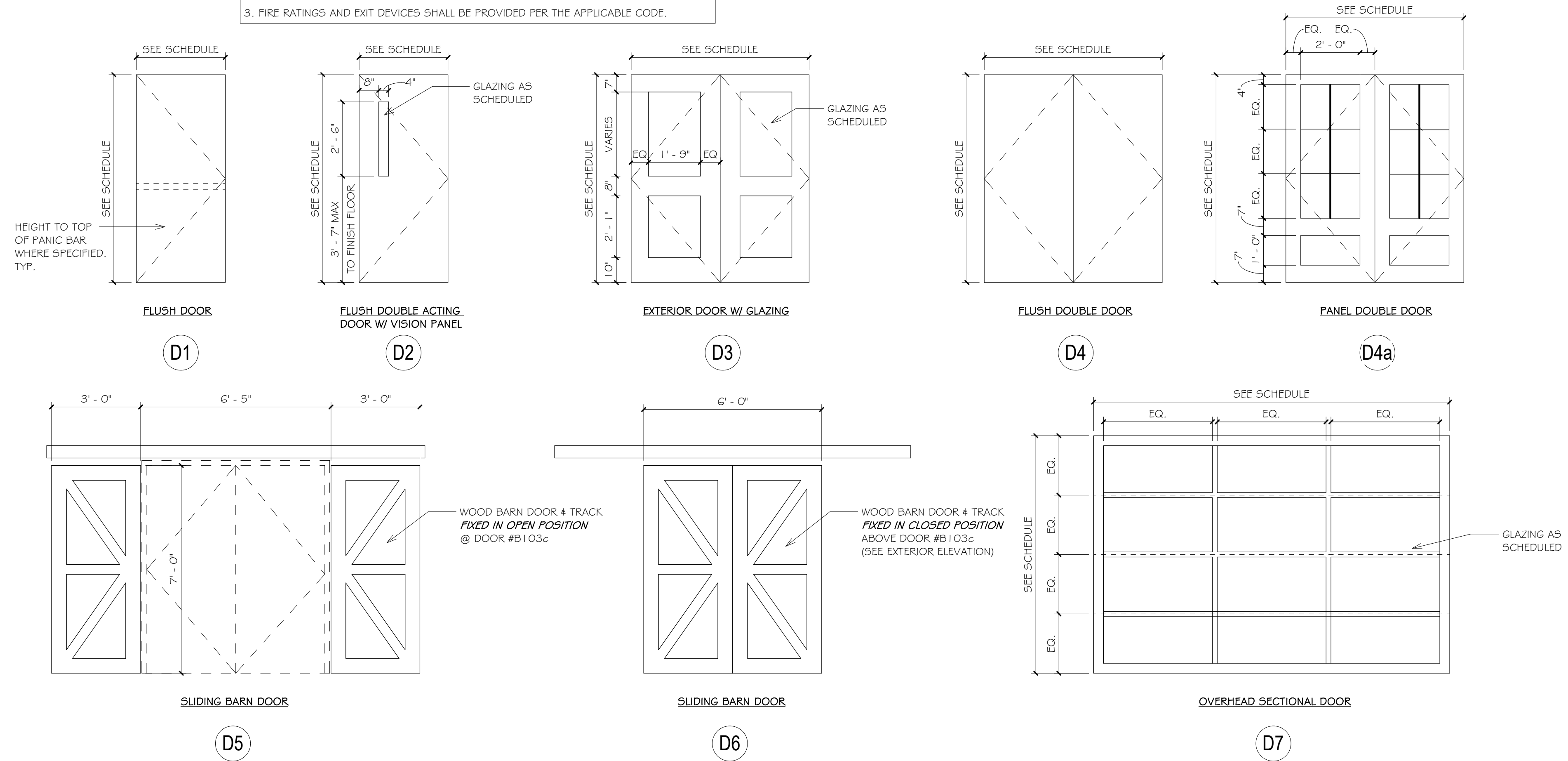
B-A5.0

SHEET: OF:

NUMBER	TO ROOM	DOOR							FRAME			DETAILS			COMMENTS	
		WIDTH	HEIGHT	THICKNESS	ELEV	MATERIAL	FINISH	GLAZING	ELEV	MATERIAL	FINISH	FIRE RATING	HEAD	JAMB		HARDWARE
B100	EVENT SPACE	6'-0"	8'-0"	0'-1 3/4"	D3	ALUM	FF	INSUL / TEMP	F1	ALUM	FF	-	-	-	1	WEATHERSTRIPPING
B100a	EVENT SPACE	12'-0"	8'-0"	0'-1 3/4"	D7	ALUM	FF	INSUL / TEMP	-	-	-	-	-	-	-	-
B100b	EVENT SPACE	12'-0"	8'-0"	0'-1 3/4"	D7	ALUM	FF	INSUL / TEMP	-	-	-	-	-	-	-	-
B100c	EVENT SPACE	12'-0"	8'-0"	0'-1 3/4"	D7	ALUM	FF	INSUL / TEMP	-	-	-	-	-	-	-	-
B100d	EVENT SPACE	12'-0"	8'-0"	0'-1 3/4"	D7	ALUM	FF	INSUL / TEMP	-	-	-	-	-	-	-	-
B100e	EVENT SPACE	12'-0"	8'-0"	0'-1 3/4"	D7	ALUM	FF	INSUL / TEMP	-	-	-	-	-	-	-	-
B100f	EVENT SPACE	12'-0"	8'-0"	0'-1 3/4"	D7	ALUM	FF	INSUL / TEMP	-	-	-	-	-	-	-	-
B100g	EVENT SPACE	12'-0"	8'-0"	0'-1 3/4"	D7	ALUM	FF	INSUL / TEMP	-	-	-	-	-	-	-	-
B100h	EVENT SPACE	12'-0"	8'-0"	0'-1 3/4"	D7	ALUM	FF	INSUL / TEMP	-	-	-	-	-	-	-	-
B100j	EVENT SPACE	6'-0"	8'-0"	0'-1 3/4"	D3	ALUM	FF	INSUL / TEMP	F1	ALUM	FF	-	-	-	2	WEATHERSTRIPPING
B100k	EVENT SPACE	12'-0"	8'-0"	0'-1 3/4"	D7	ALUM	FF	INSUL / TEMP	-	-	-	-	-	-	-	-
B101	STORAGE	6'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F		F1	HM	PT	-	-	-	21	
B102	MECHANICAL	6'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F		F1	HM	PT	45 MIN	-	-	13	
B102a	MECHANICAL	6'-0"	7'-0"	0'-1 3/4"	D1	HM	PT		F1	HM	PT	45 MIN	-	-	13	
B103	KITCHEN	3'-0"	7'-0"	0'-1 3/4"	D2	WD	S4F	TEMP	F2	HM	PT	-	-	-	22	DOUBLE ACTING
B103a	KITCHEN	6'-0"	7'-0"	0'-1 3/4"	D4a	GHM	PT		F1	GHM	PT	-	-	-	6	WEATHERSTRIPPING
B103b	KITCHEN	3'-0"	7'-0"	0'-1 3/4"	D2	WD	S4F	TEMP	F2	HM	PT	-	-	-	22	DOUBLE ACTING
B104	CORRIDOR	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F		F1	HM	PT	-	-	-	20	
B106	STORAGE	3'-0"	7'-0"	0'-1 3/4"	D1	HM	PT		F1	HM	PT	-	-	-	12	
B107	MECHANICAL	6'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F		F1	HM	PT	45 MIN	-	-	13	
B109	MENS	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F		F1	HM	PT	-	-	-	8	
B110	WOMENS	3'-0"	7'-0"	0'-1 3/4"	D1	WD	S4F		F1	HM	PT	-	-	-	8	

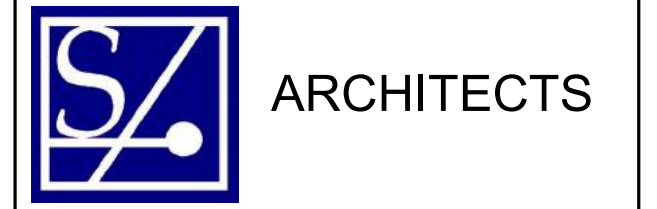
DOOR SCHEDULE NOTES

- ALL WD DOORS ARE SOLID CORE WOOD DOORS AND ARE TO RECEIVE CLEAR FINISHES.
- ALL HM DOORS AND FRAMES ARE TO BE PAINTED.
- FIRE RATINGS AND EXIT DEVICES SHALL BE PROVIDED PER THE APPLICABLE CODE.



2 B-A6.0 3\"/>

1 B-A6.0 3\"/>

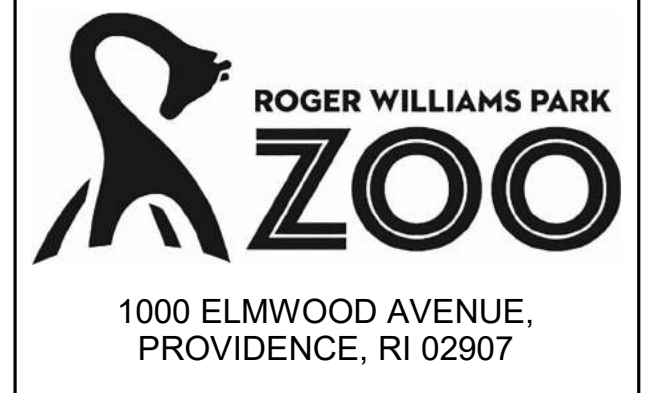


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Revision Schedule	
Revision Number	Revision Date

SHEET TITLE
 DOOR & WINDOW SCHEDULES

DRAWN BY: KC JOB NUMBER: 18050
 CHECKED BY: MS DATE: 04-17-2024

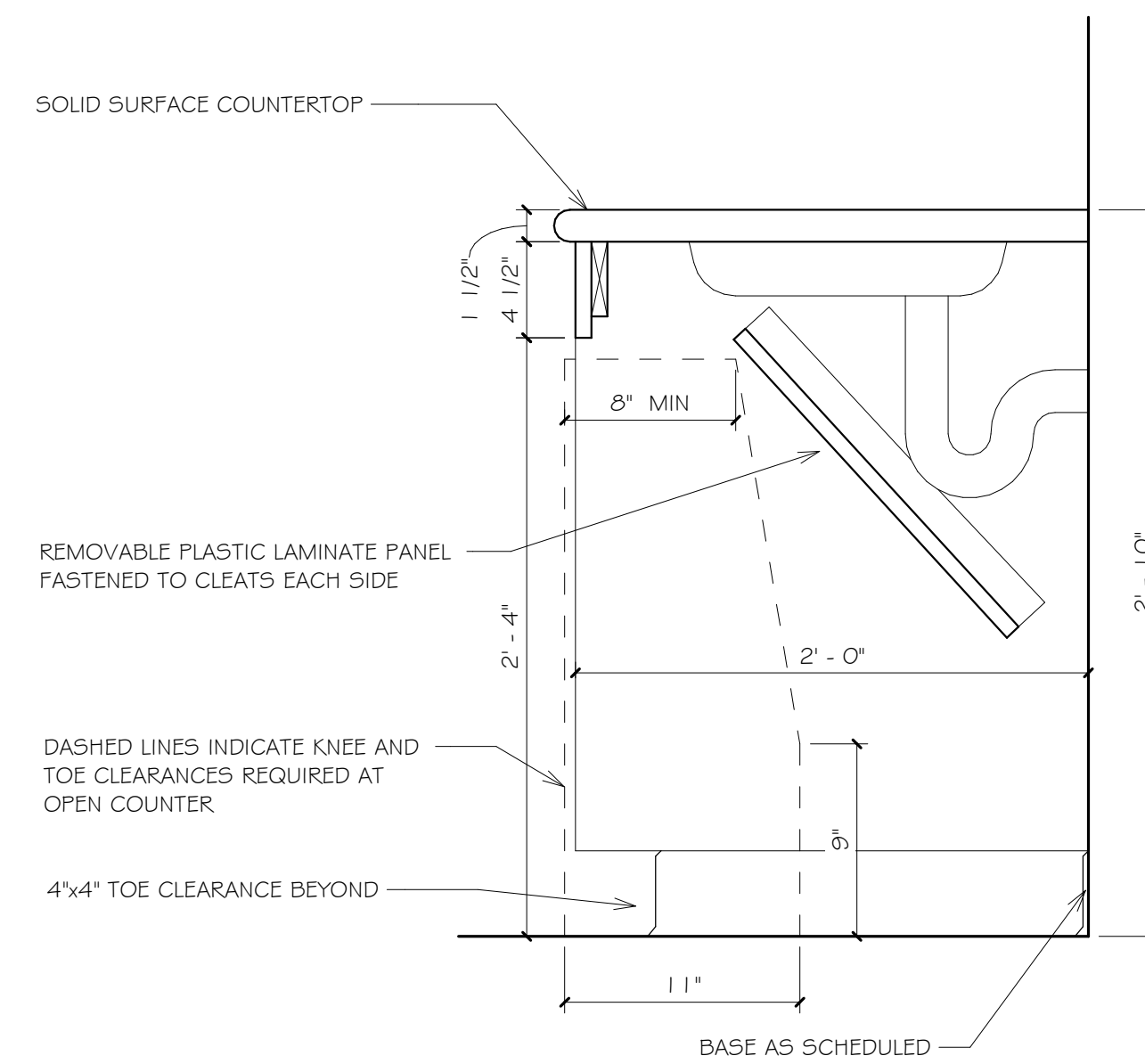
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SHEET: OF:

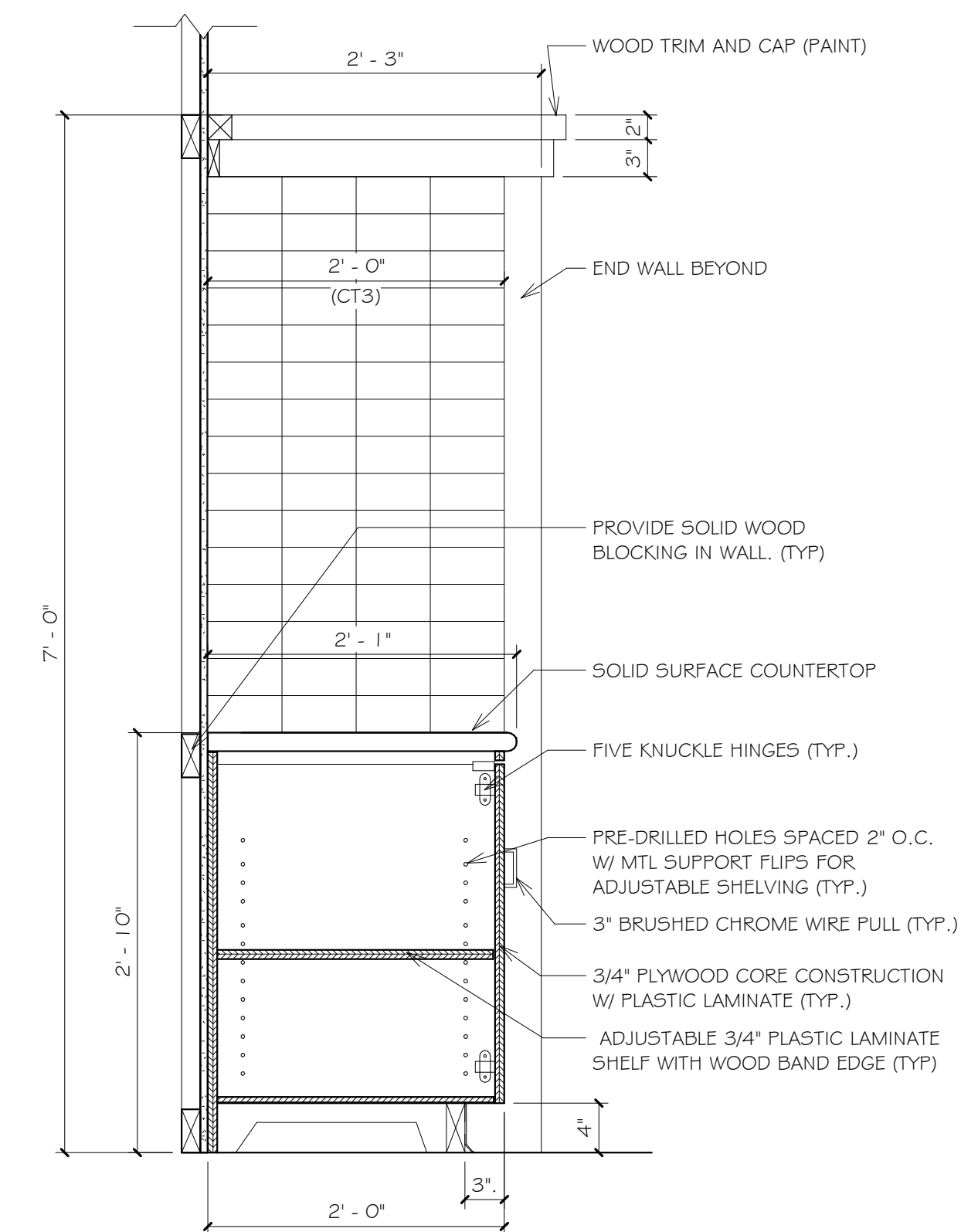
ROOM FINISH SCHEDULE										
ROOM #	ROOM NAME	WALLS				FLOOR	BASE		CEILING	COMMENTS
		NORTH	SOUTH	EAST	WEST		MATERIAL	HEIGHT		
B100	EVENT SPACE	PT5	PT5	PT5	PT5	SC5	B4	6"	OTS PG	
B101	STORAGE	PT4	PT4	PT4	PT4	SC5	B1	4"	ACT1	
B102	MECHANICAL	PT4	PT4	PT4	PT4	CONCRETE UNFINISHED	-	0"	OTS	
B102a	ELEC	PT4	PT4	PT4	PT4	CONCRETE UNFINISHED	-	0"	OTS	
B103	KITCHEN	FRP	FRP	FRP	FRP	QT	B4	6"	ACT3	
B104	JAN	FRP	FRP	FRP	FRP	SC5	B1	4"	ACT1	
B105	CORRIDOR	PT5	PT5	PT5	PT5	SC5	B4	6"	ACT1	
B106	STORAGE	PT4	PT4	PT4	PT4	SC5	B1	4"	ACT1	
B107	MECHANICAL	PT4	PT4	PT4	PT4	CONCRETE UNFINISHED	-	0"	OTS	
B108	CORRIDOR	PT5	PT5	PT5	PT5	SC5	B4	6"	ACT1	
B109	MENS	CT2, PT6	CT2, PT6	CT2, PT6	CT2, PT6	SC5	B2		ACT1	
B110	WOMENS	CT2, PT6	CT2, PT6	CT2, PT6	CT2, PT6	SC5	B2		ACT1	
B201	ATTIC	-	-	-	-	-	-		OTS	

FINISH SCHEDULE NOTES

- 5/8" GWB TO BE REPLACED w/ 5/8" CEMENTITIOUS TILE BACKER BOARD WHEREVER ANY PORTION OF A WALL OR CEILING IS SCHEDULED TO RECEIVE CT.
- ALL INTERIOR ARCHITECTURAL WOODWORK SHALL RECEIVE FINISH TO MATCH DOOR FINISH WITHIN THE SAME ROOM UNLESS OTHERWISE SPECIFIED.



1 KNEE PANEL DETAIL
1 1/2" = 1'-0"



2 CASEWORK
1" = 1'-0"



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Revision Schedule

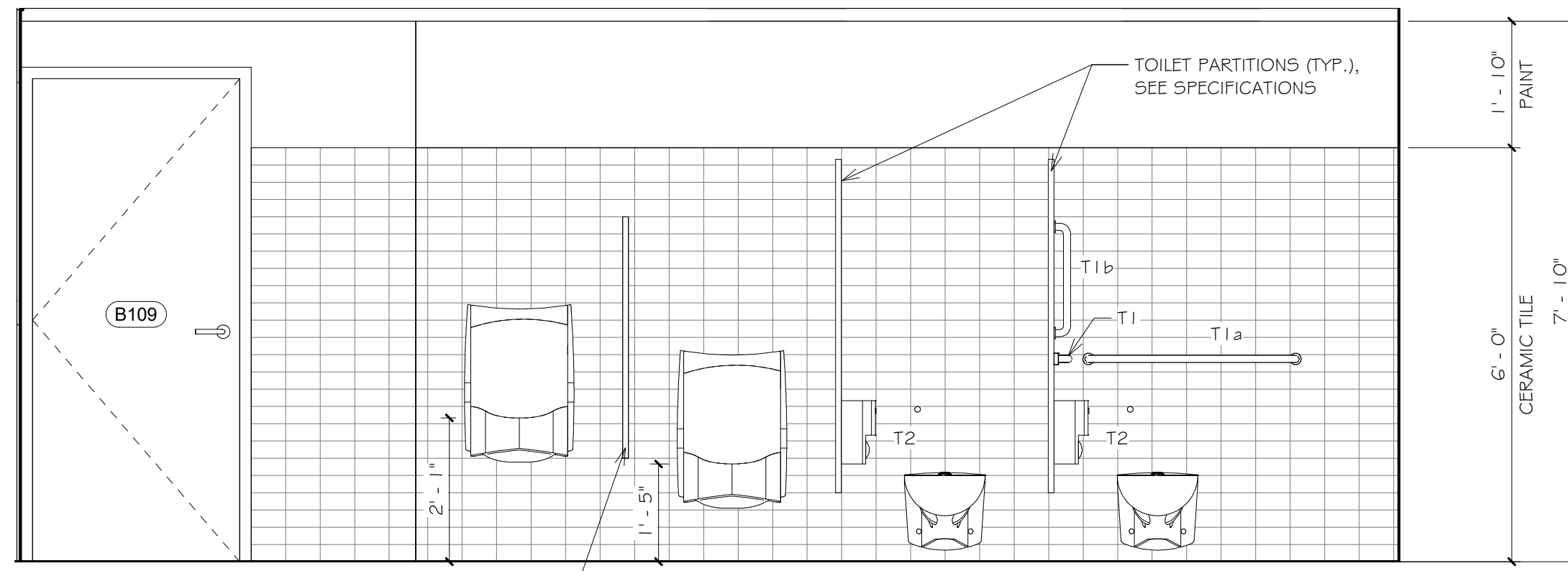
Revision Number	Revision Date

SHEET TITLE
FINISH SCHEDULE

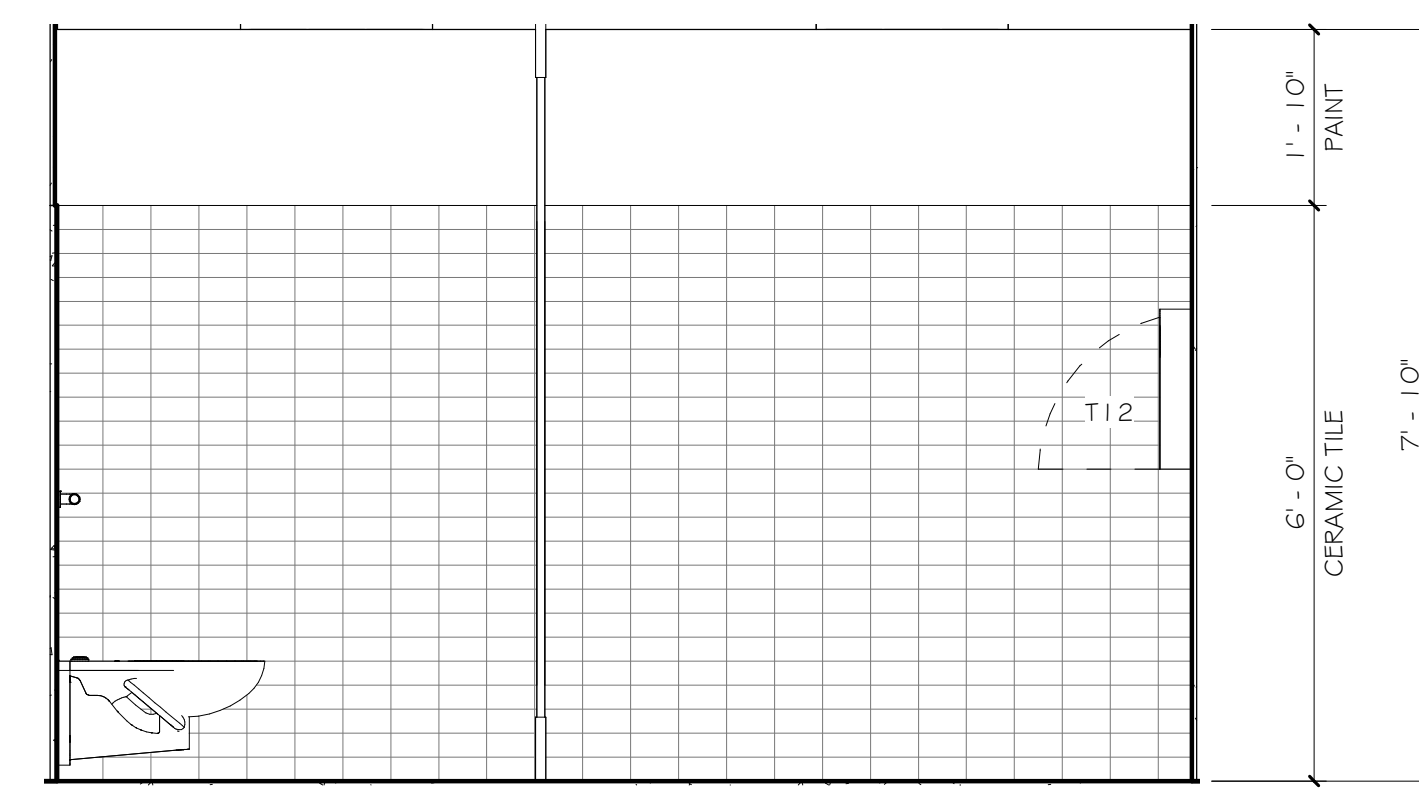
DRAWN BY: KC JOB NUMBER: 18050
CHECKED BY: MS DATE: 04-17-2024

B-A6.1

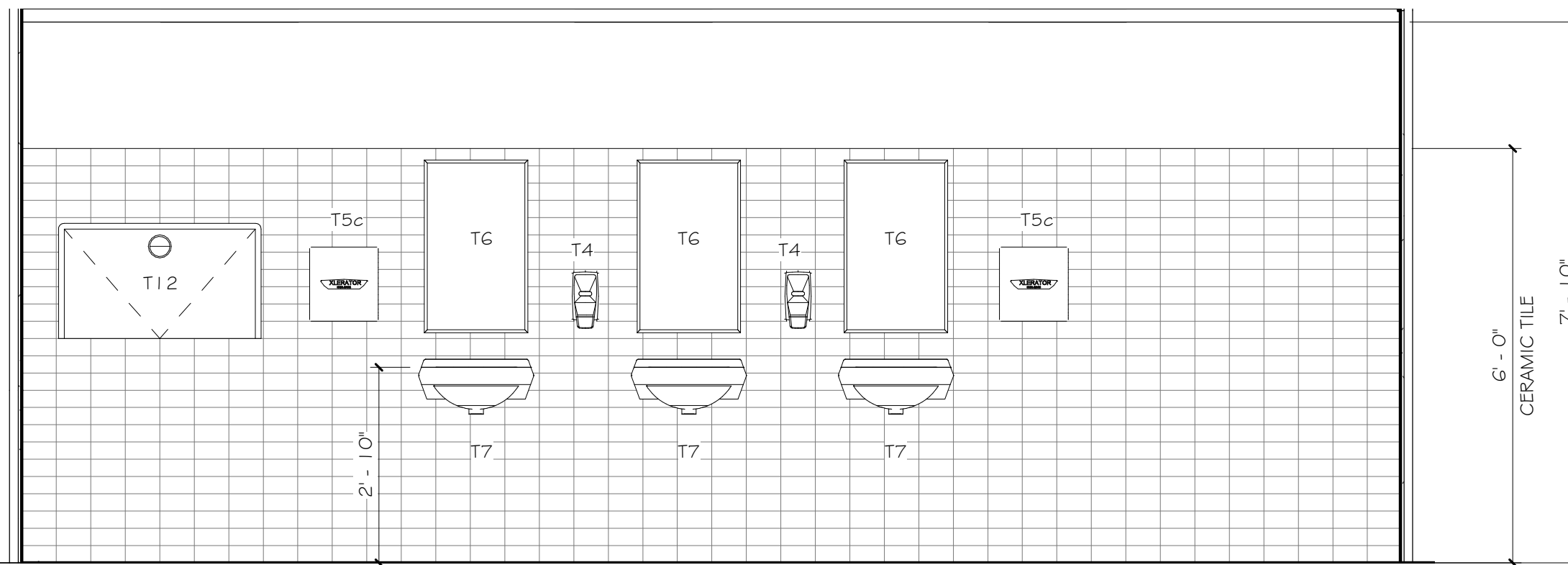
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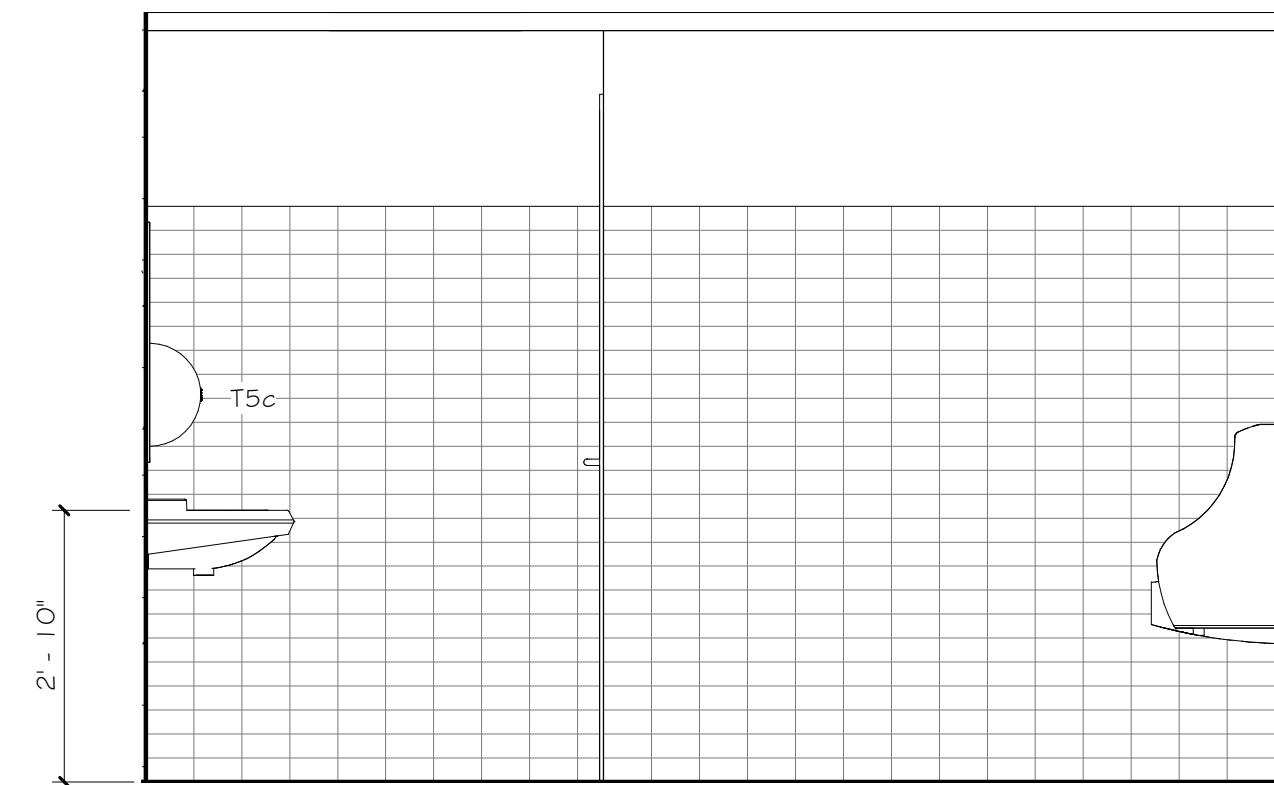
1 MENS - ELEVATION
B-A7.0 1/2" = 1'-0"



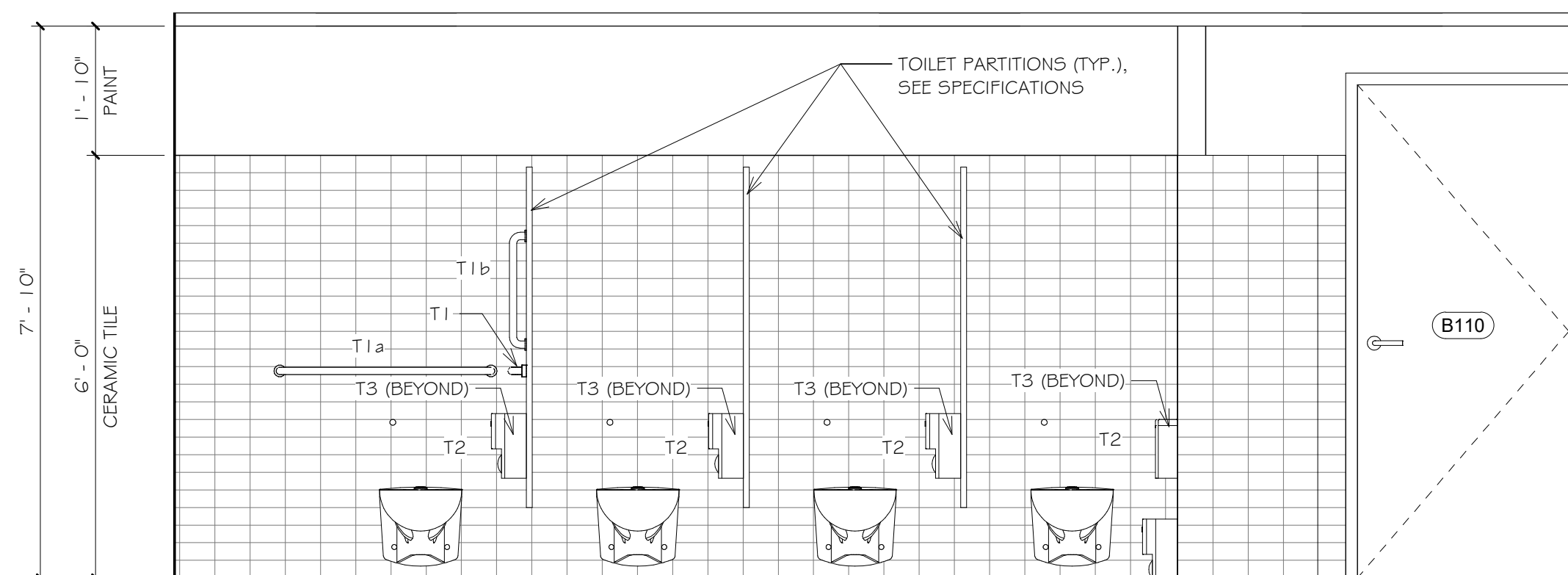
2 MENS - ELEVATION
B-A7.0 1/2" = 1'-0"



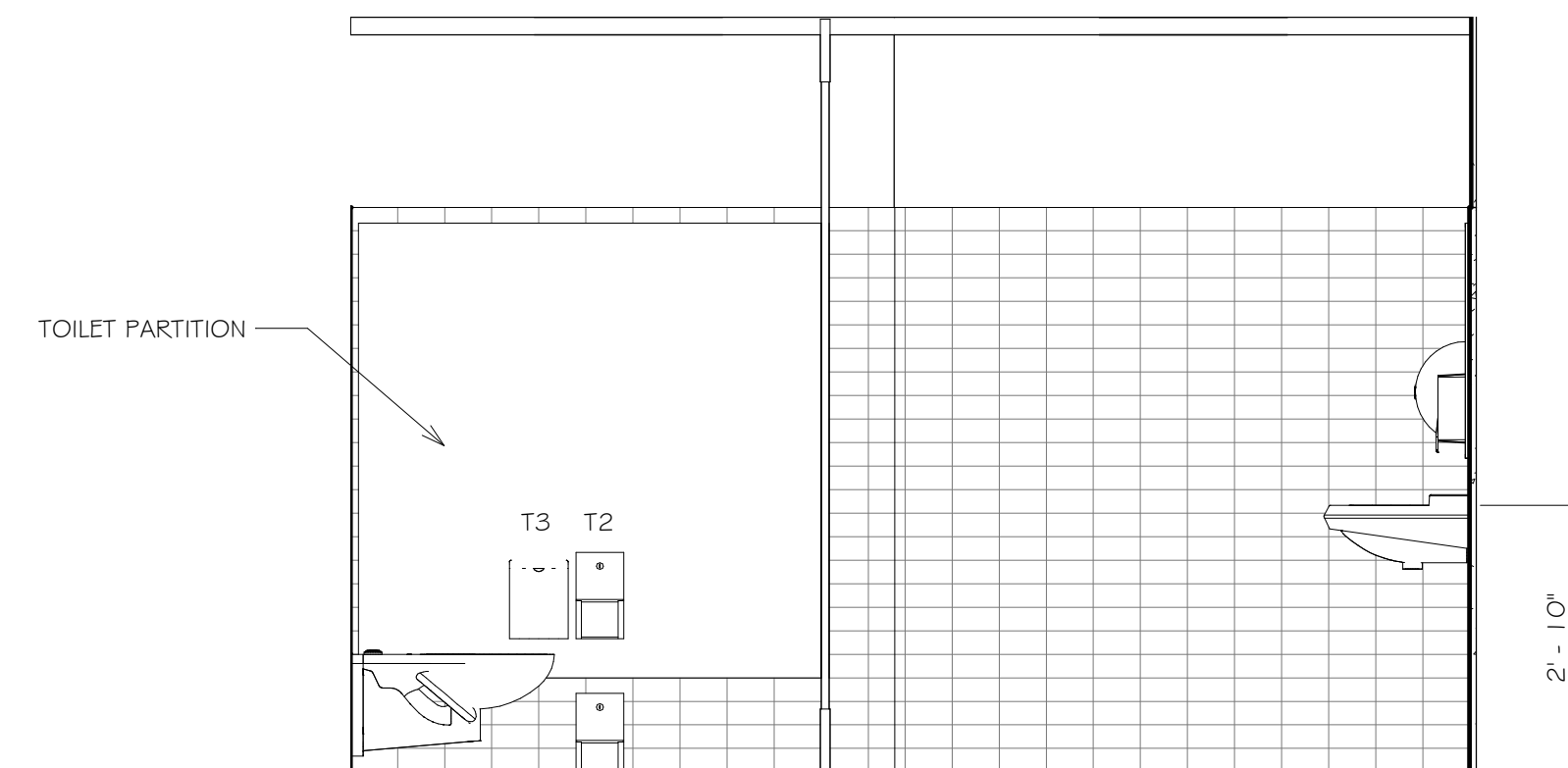
3 MENS - ELEVATION
B-A7.0 1/2" = 1'-0"



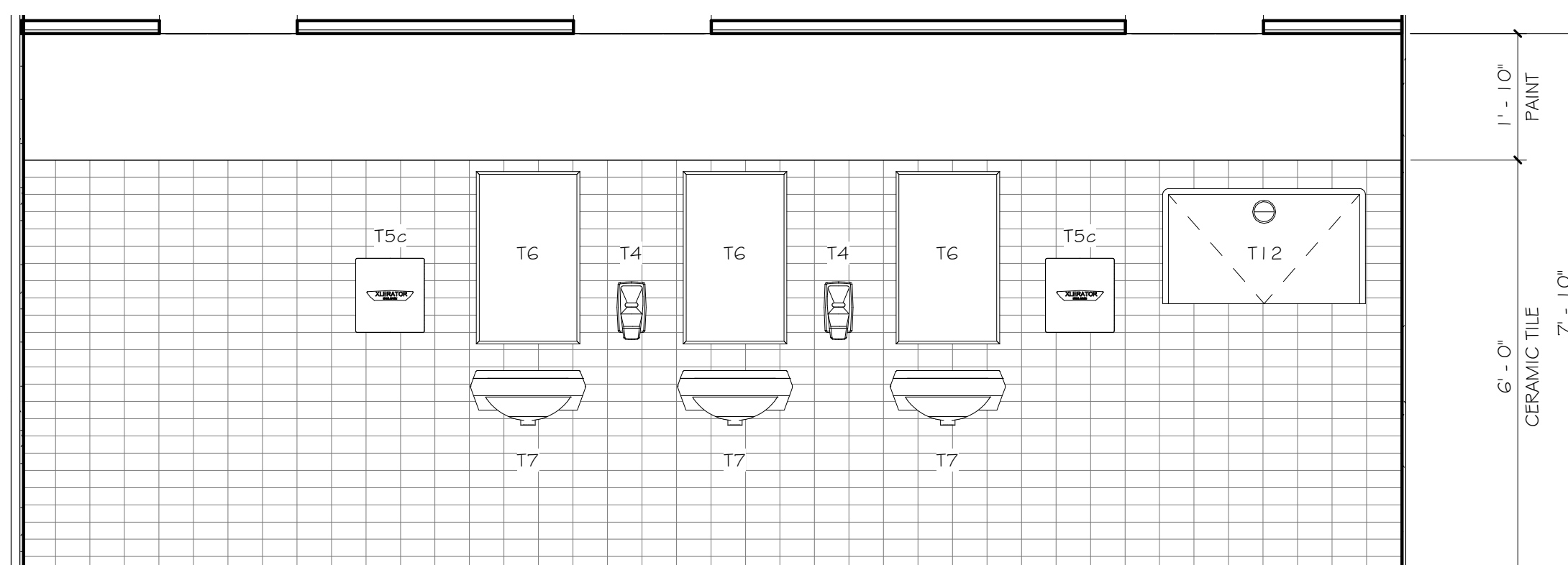
4 MENS - ELEVATION
B-A7.0 1/2" = 1'-0"



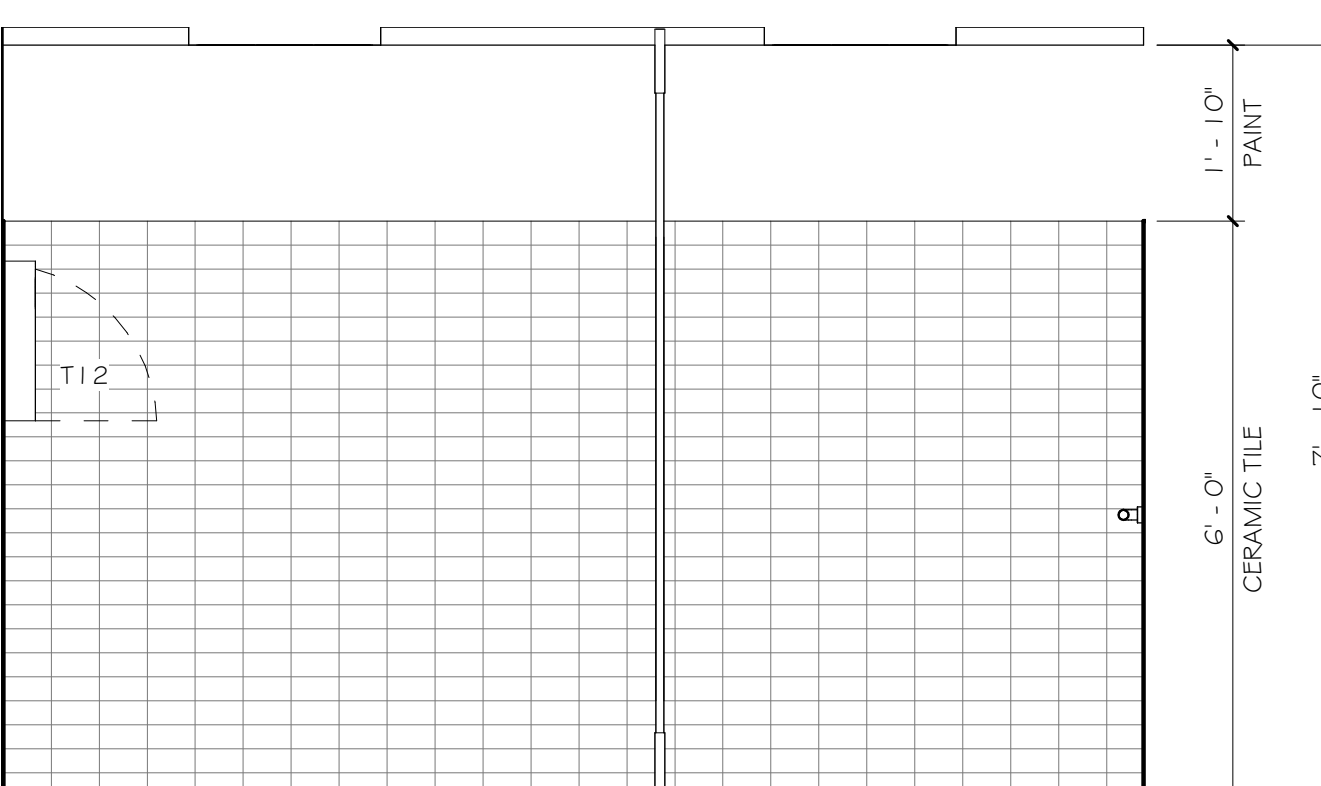
5 WOMENS - ELEVATION
B-A7.0 1/2" = 1'-0"



6 WOMENS - ELEVATION
B-A7.0 1/2" = 1'-0"



7 WOMENS - ELEVATION
B-A7.0 1/2" = 1'-0"



8 WOMENS - ELEVATION
B-A7.0 1/2" = 1'-0"

NOTE:
SEE FINISH SCHEDULE * MATERIALS
SCHEDULES FOR ADDITIONAL INFORMATION

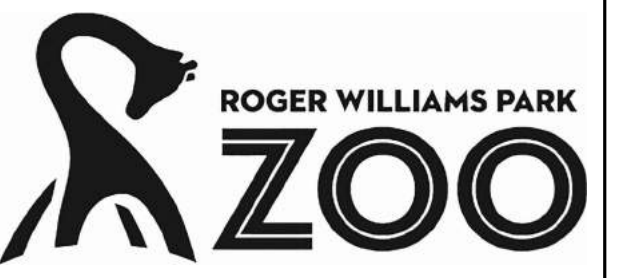


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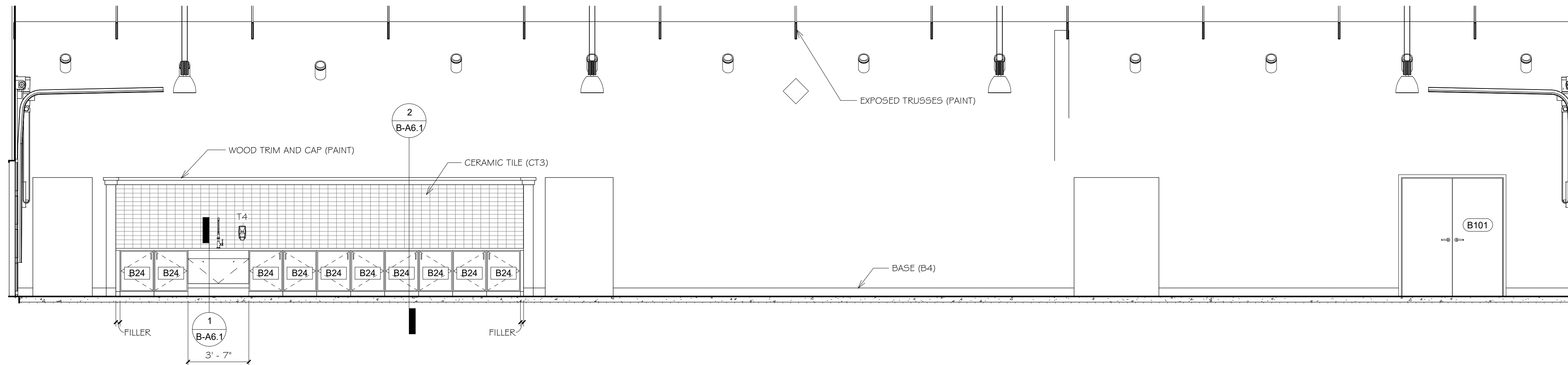
Revision Schedule	
Revision Number	Revision Date

SHEET TITLE
INTERIOR
ELEVATIONS

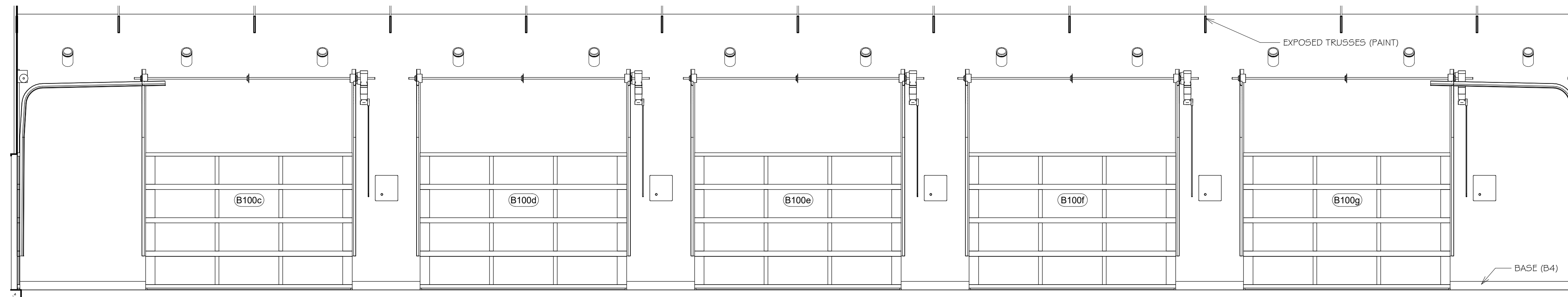
DRAWN BY: KC JOB NUMBER: 18050
CHECKED BY: MS DATE: 04-17-2024

B-A7.0

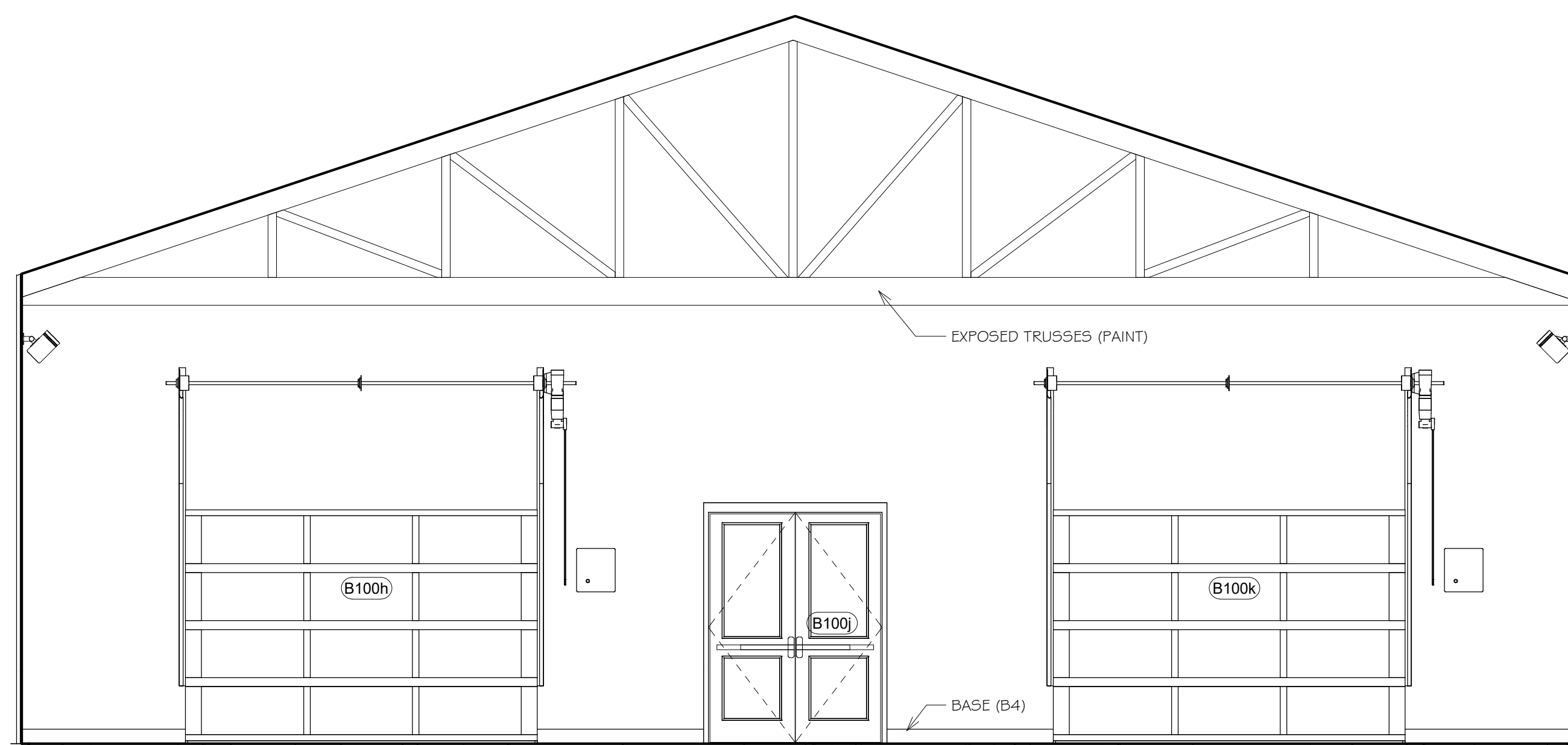
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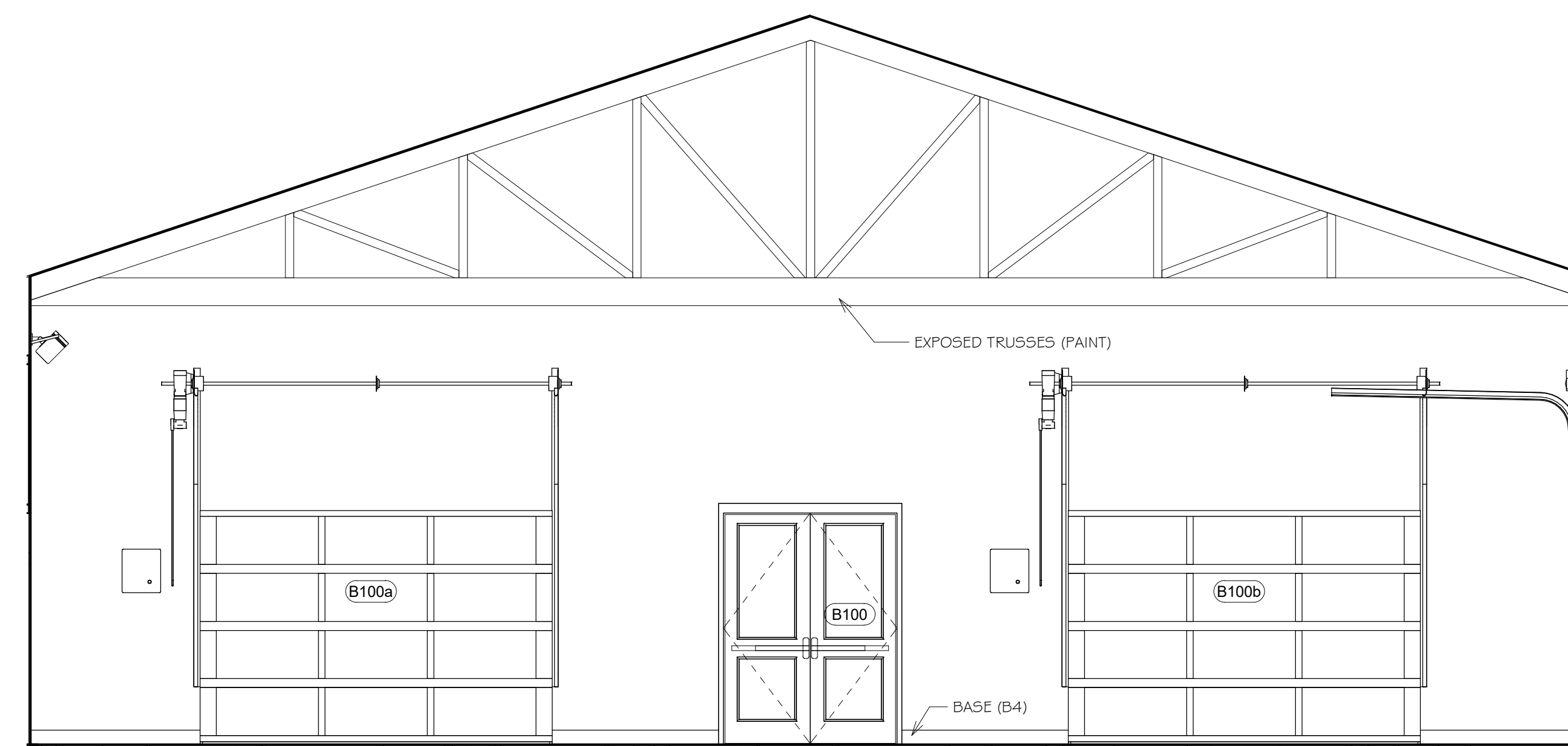
1 ELEVATION - EVENT SPACE
1/4" = 1'-0"



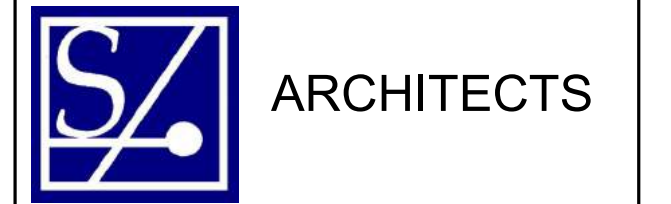
2 ELEVATION - EVENT SPACE
1/4" = 1'-0"



3 ELEVATION - EVENT SPACE
1/4" = 1'-0"



4 ELEVATION - EVENT SPACE
1/4" = 1'-0"

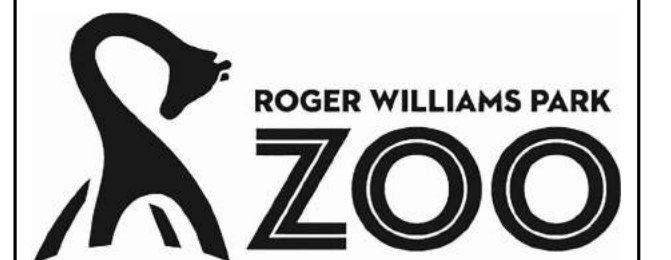


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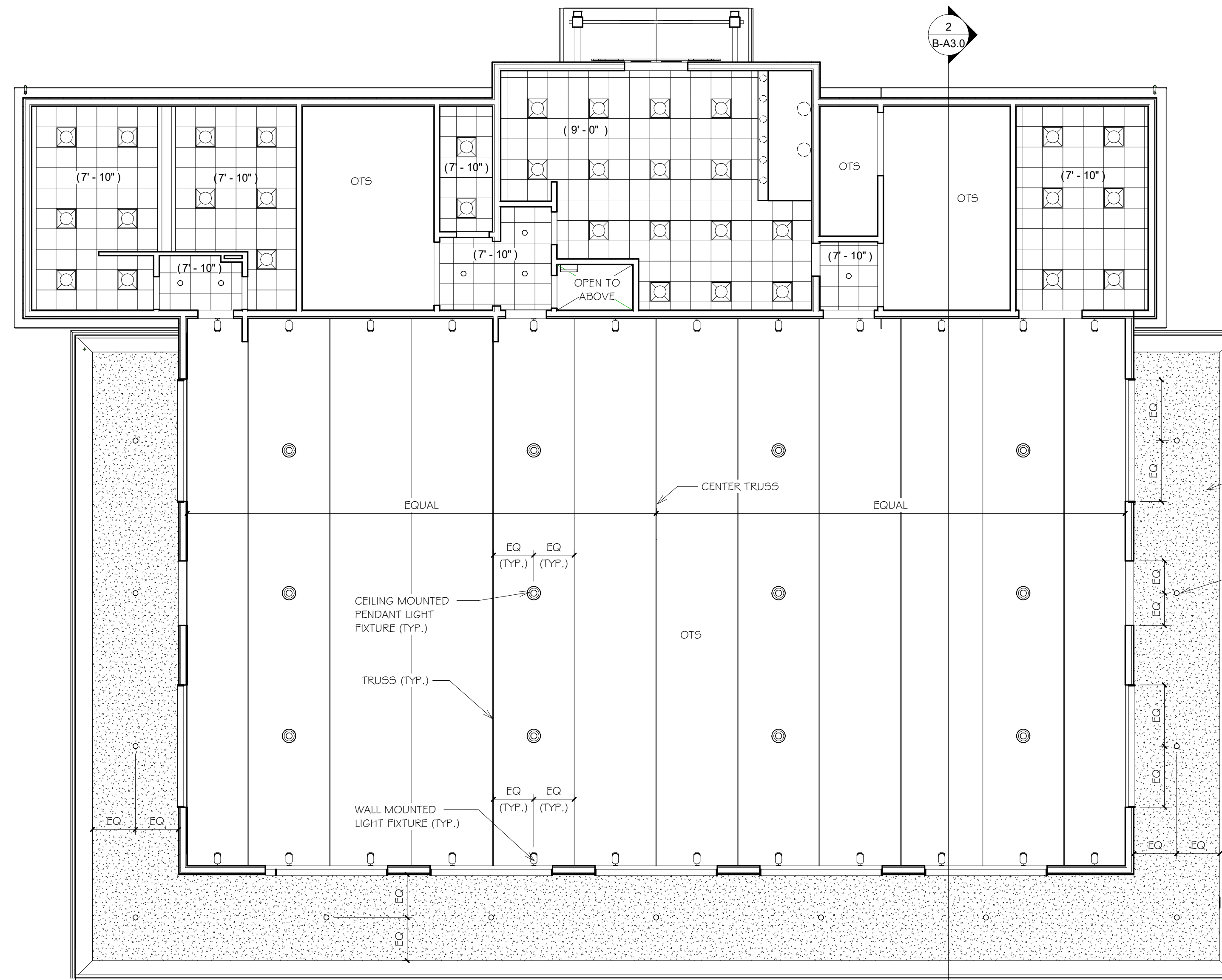
Revision Number	Revision Date

SHEET TITLE
INTERIOR
ELEVATIONS

DRAWN BY: Author JOB NUMBER: 18050
CHECKED BY: Checker DATE: 04-17-2024

B-A7.1

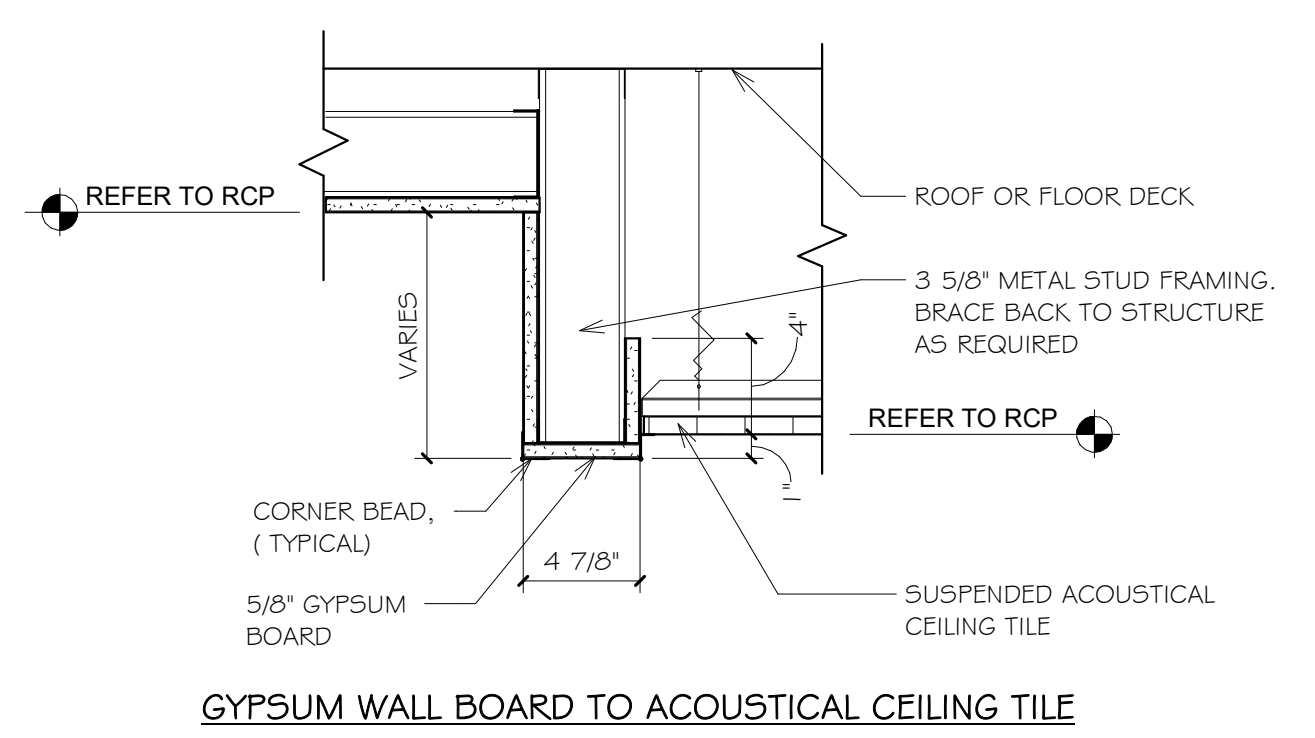
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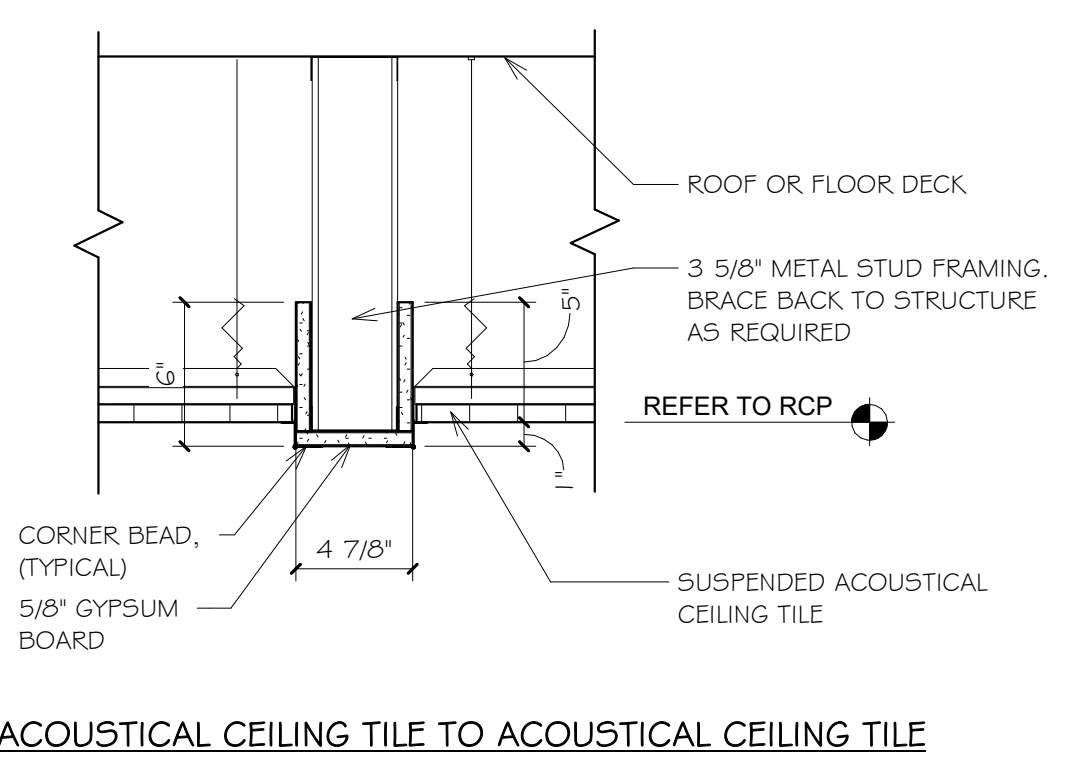
LEGEND	
	ACOUSTICAL LAY-IN TILE
	CEILING HEIGHT
OTS	= OPEN TO STRUCTURE
BOS	= BOTTOM OF STRUCTURE

- NOTES**
- SEE MEP DRAWINGS FOR OTHER FIXTURES/DEVICES/EQUIPMENT THAT MAY NOT BE SHOWN ON THESE REFLECTED CEILING PLANS.
 - PROVIDE 3 1/2" SOUND ATTENUATION BATTS IN CEILING WHERE NOTED.

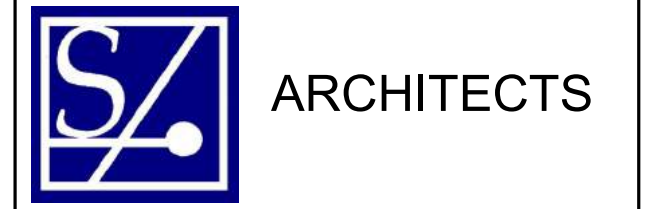
1
B-A8.0
REFLECTED CEILING PLAN
1/8" = 1'-0"



3
B-A8.0
CEILING SOFFIT TRANSITION DETAIL
1/2" = 1'-0"



2
B-A8.0
CEILING SOFFIT TRANSITION DETAIL
1/2" = 1'-0"

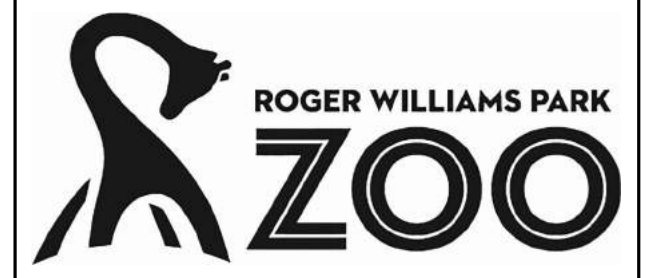


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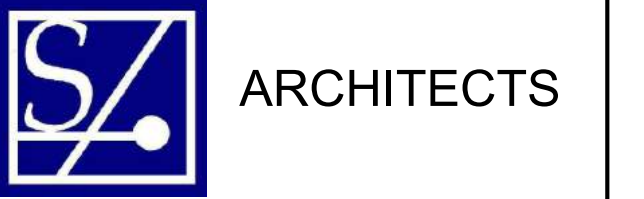
Revision Schedule	
Revision Number	Revision Date

SHEET TITLE
REFLECTED CEILING PLAN

DRAWN BY: Author JOB NUMBER: 18050
CHECKED BY: Checker DATE: 04-17-2024

B-A8.0

SHEET: OF:



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**Education Center,
 Animal Building, &
 Pavilion**



100 ELMWOOD AVENUE
 PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

Issued for Bid
 05/01/2024

SHEET TITLE

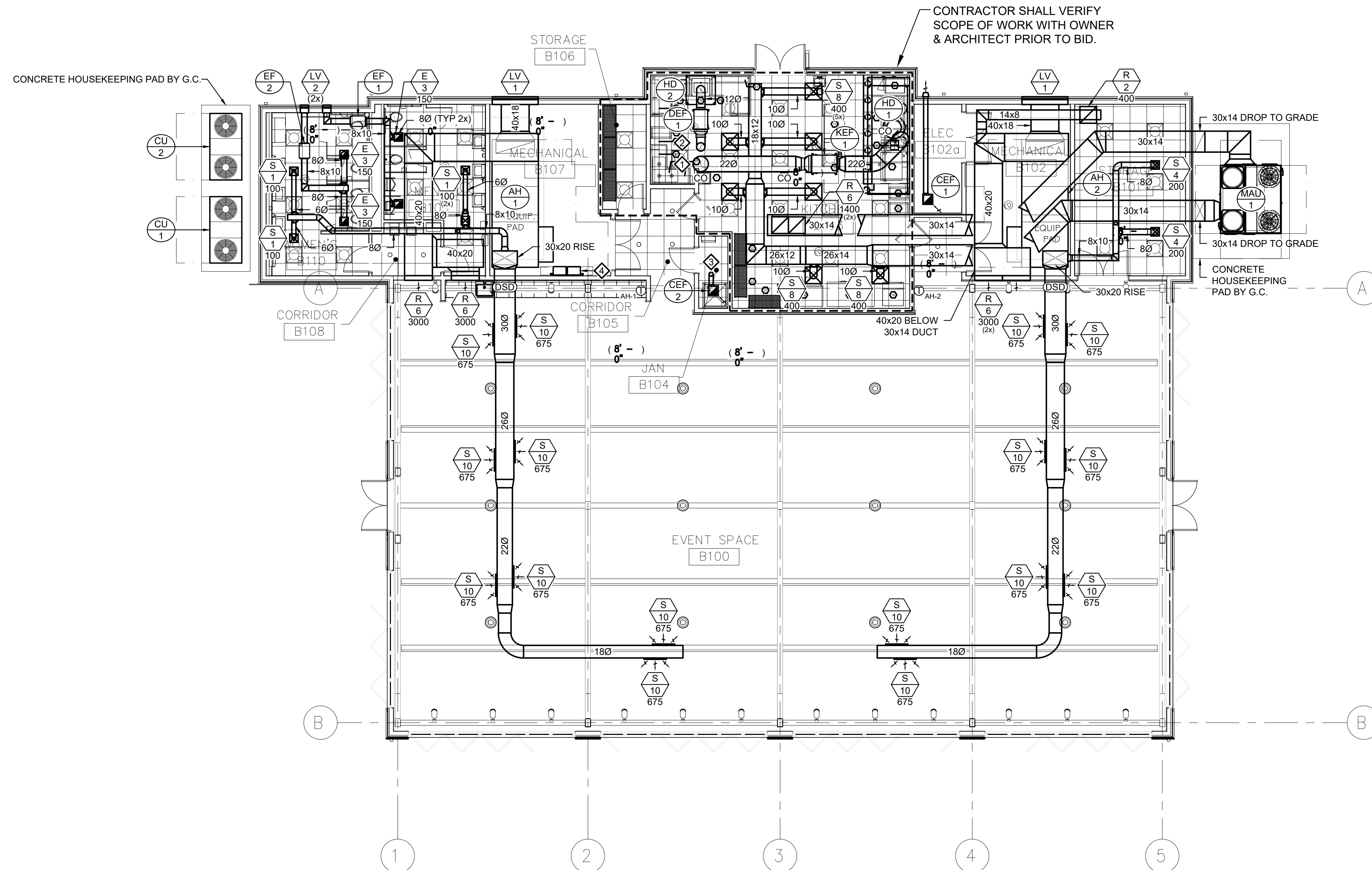
**MECHANICAL
 PAVILION
 DUCTWORK
 PLANS**

DRAWN BY: MFM/AJV JOB NUMBER: 18050

CHECKED BY: WTM DATE: 04/18/2024

B-M1.1

SHEET: OF:



MINIMUM CLEARANCE NOTES:

1. ALL MECHANICAL EQUIPMENT INSTALLED ON ROOF MUST MAINTAIN A MINIMUM OF 10'-0" FROM ROOF EDGE.
2. ALL EXHAUST TERMINATIONS MUST MAINTAIN A MINIMUM OF 10'-0" HORIZONTAL DISTANCE FROM ALL FA INTAKES AND OPENINGS.

MECHANICAL NOTE:

1. FINAL LOCATION OF THERMOSTATS DETERMINED BY OWNER. COORDINATE WITH ARCH. AND MC AS REQUIRED.
2. CONTRACTOR TO COORDINATE DUCT ROUTING AND DIFFUSER LOCATION WITH NEW LIGHTING IN FIELD. COORDINATE WITH E.C. AS REQUIRED.

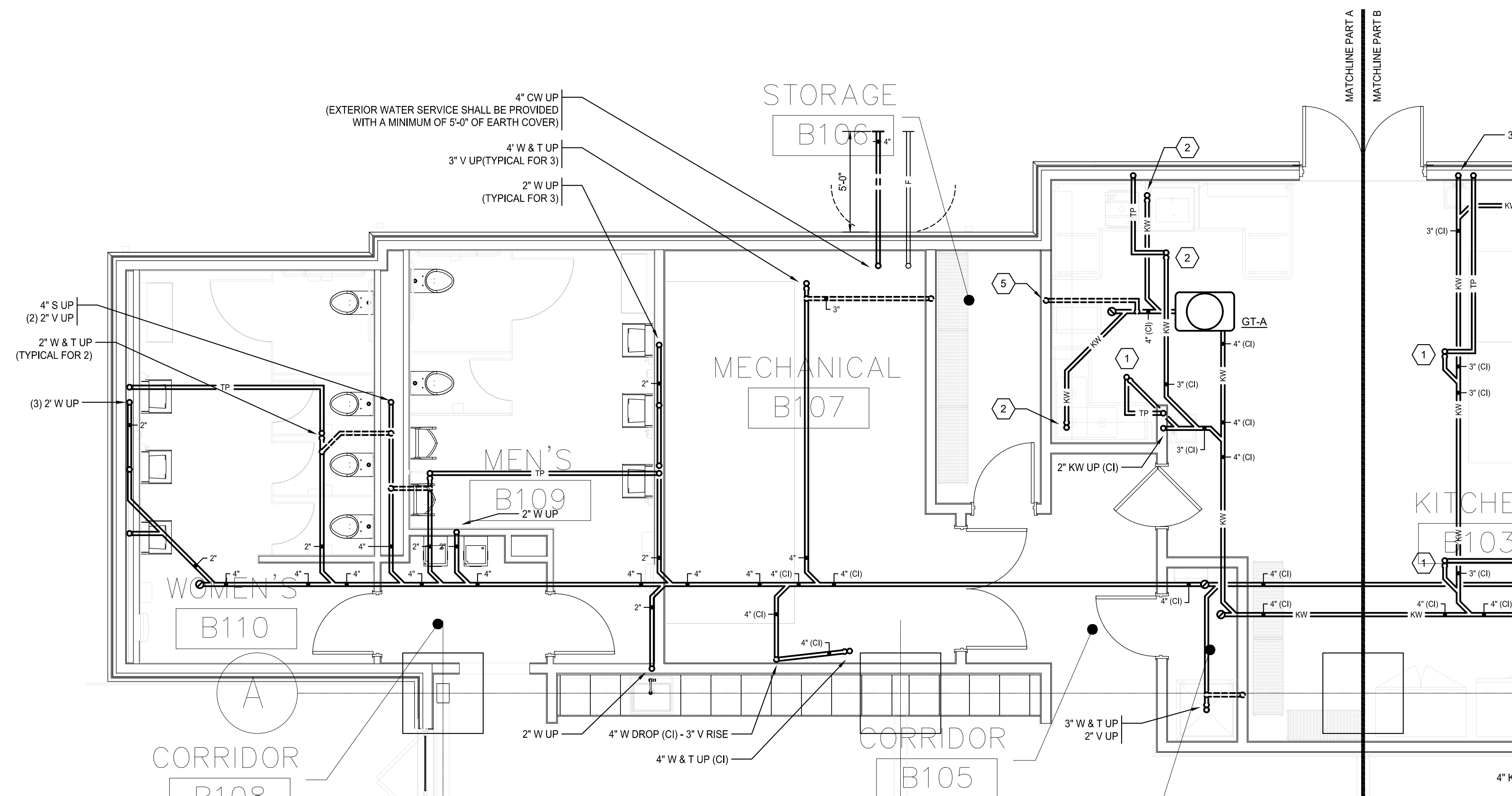
KEYED MECHANICAL NOTE:

- 22Ø UP TO GOOSENECK TERMINATION ON ROOF. MAINTAIN ALL MINIMUM CLEARANCES REQUIRED BY LOCAL CODES.
- 12Ø UP TO GOOSENECK TERMINATION ON ROOF. MAINTAIN ALL MINIMUM CLEARANCES REQUIRED BY LOCAL CODES.
- 6Ø UP TO GOOSENECK TERMINATION ON ROOF. MAINTAIN ALL MINIMUM CLEARANCES REQUIRED BY LOCAL CODES.
- CONCENTRIC VENT/FLUE FOR NEW HOT WATER HEATERS UP THROUGH ROOF. CONTRACTOR TO DETERMINE EXACT ROUTING IN FIELD. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDED INSTRUCTIONS. MAINTAIN ALL MINIMUM CLEARANCES REQUIRED BY LOCAL CODES.

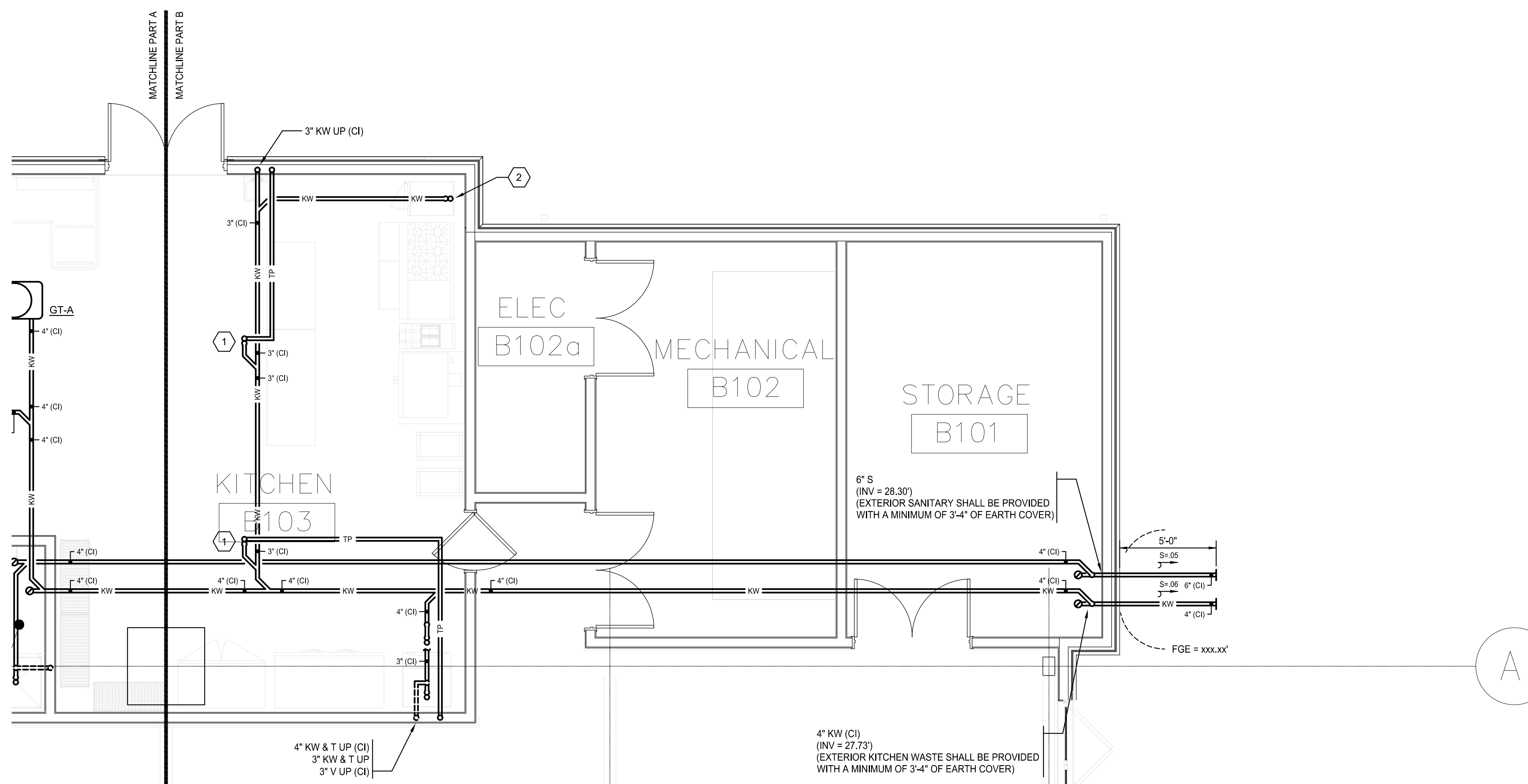
1 PAVILION DUCTWORK PLAN
 1/8" = 1'-0"

KEY NOTES

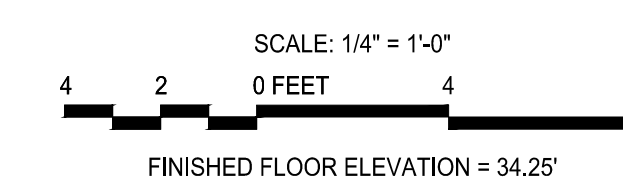
- 1 2" KW & T UP (CI)
- 2 3" KW & T UP (CI)
- 3 4" KW & T UP (CI)
- 4 2" V UP (CI)
- 5 3" V UP (CI)



1 PLUMBING UNDERSLAB PART PLAN A
B-P1.0 1/4" = 1'-0"



2 PLUMBING UNDERSLAB PART PLAN B
B-P1.0 1/4" = 1'-0"



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Education Center,
Animal Building, &
Pavilion

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Revision Schedule	
Revision Number	Revision Date

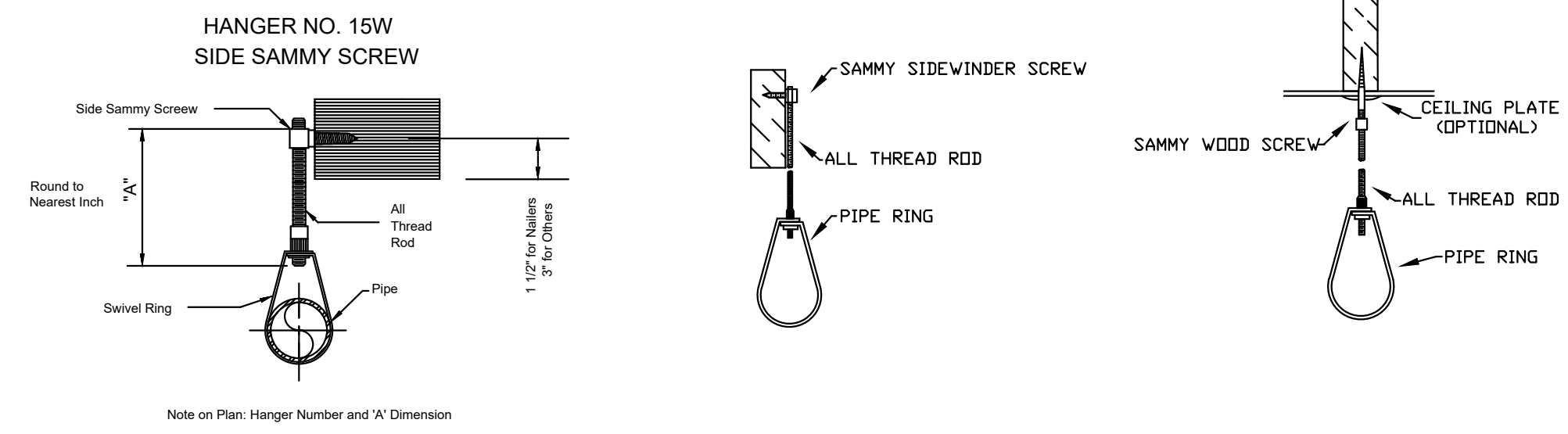
Issued for Bid
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SHEET TITLE
PLUMBING PAVILION UNDERSLAB PLAN

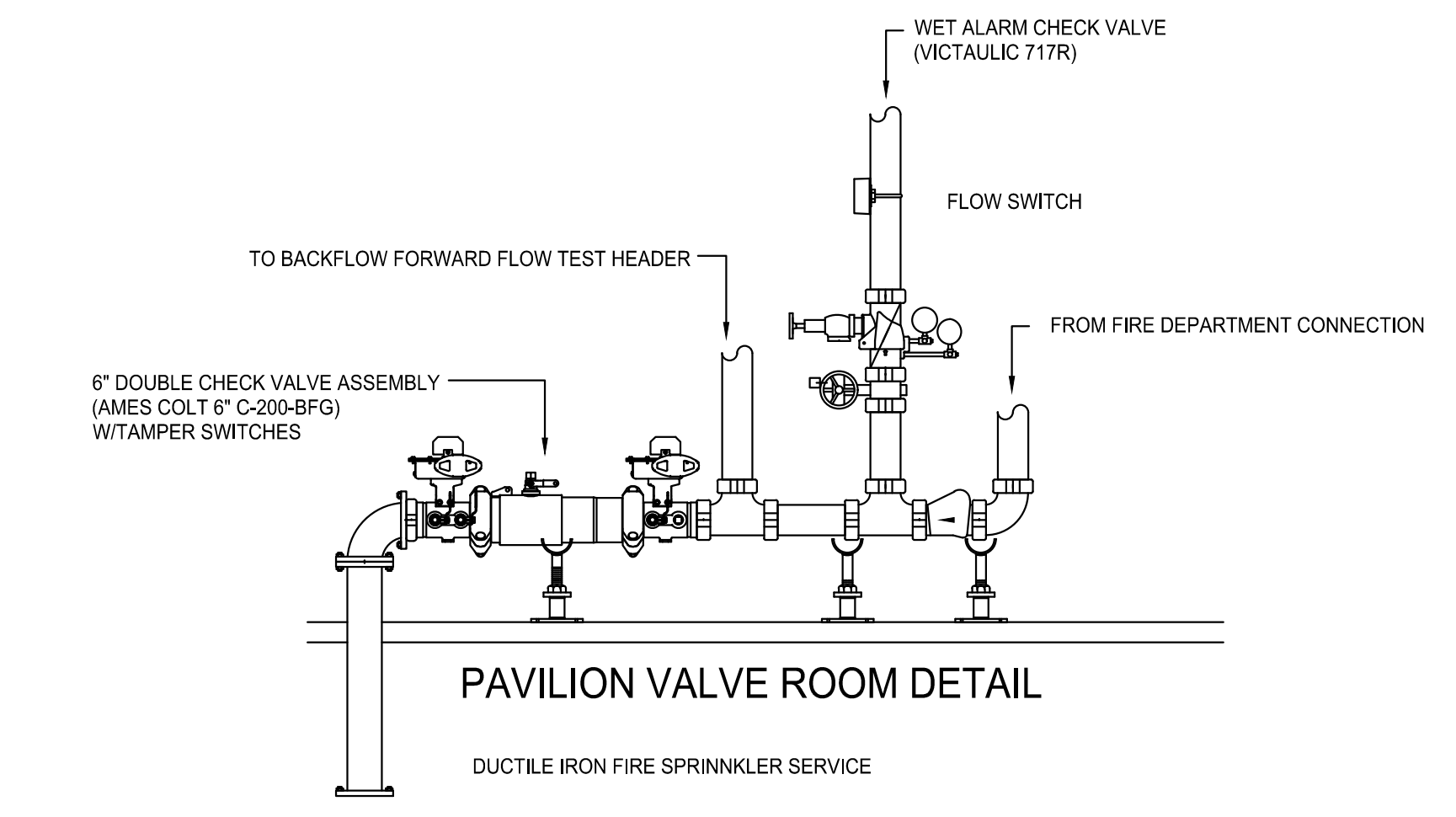
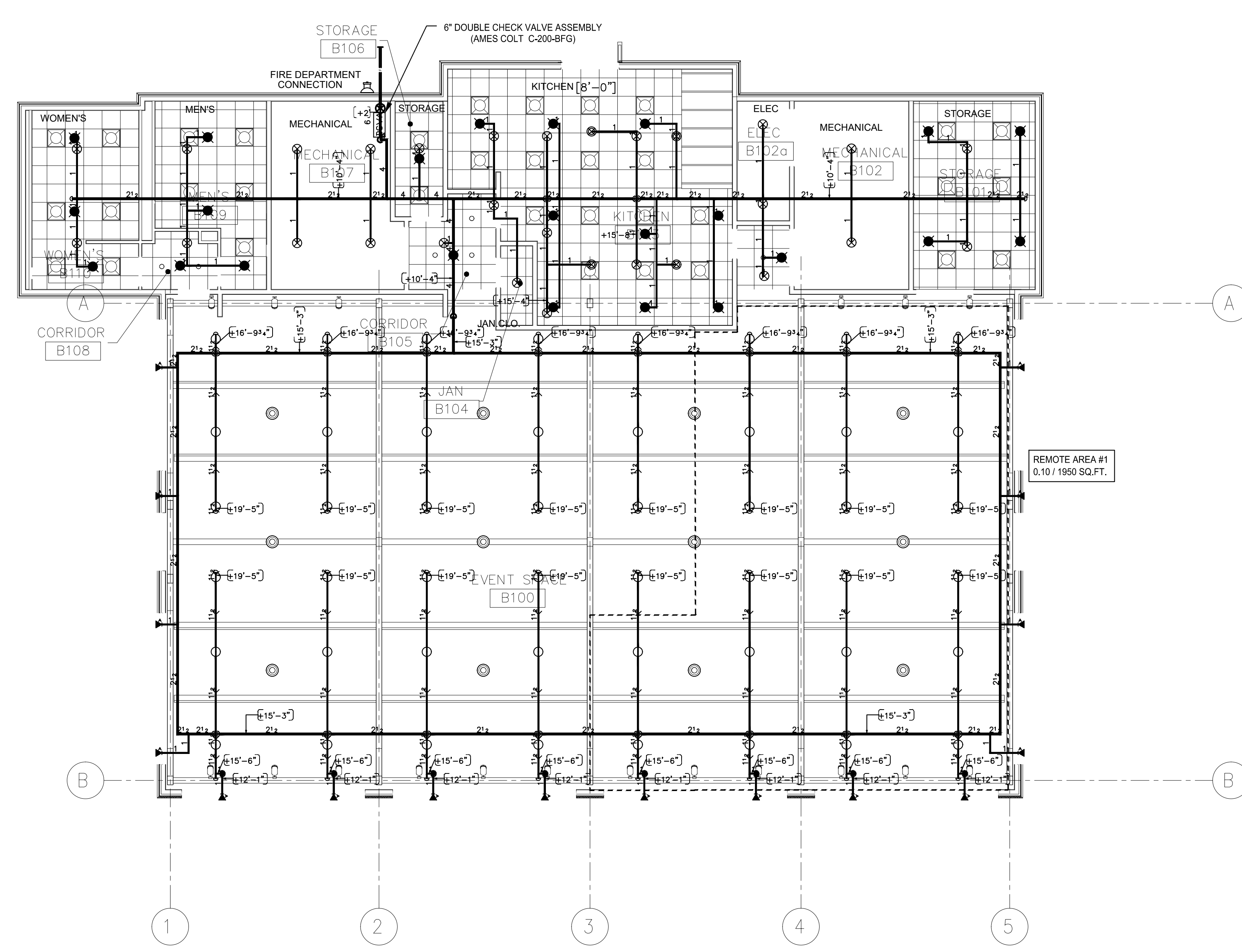
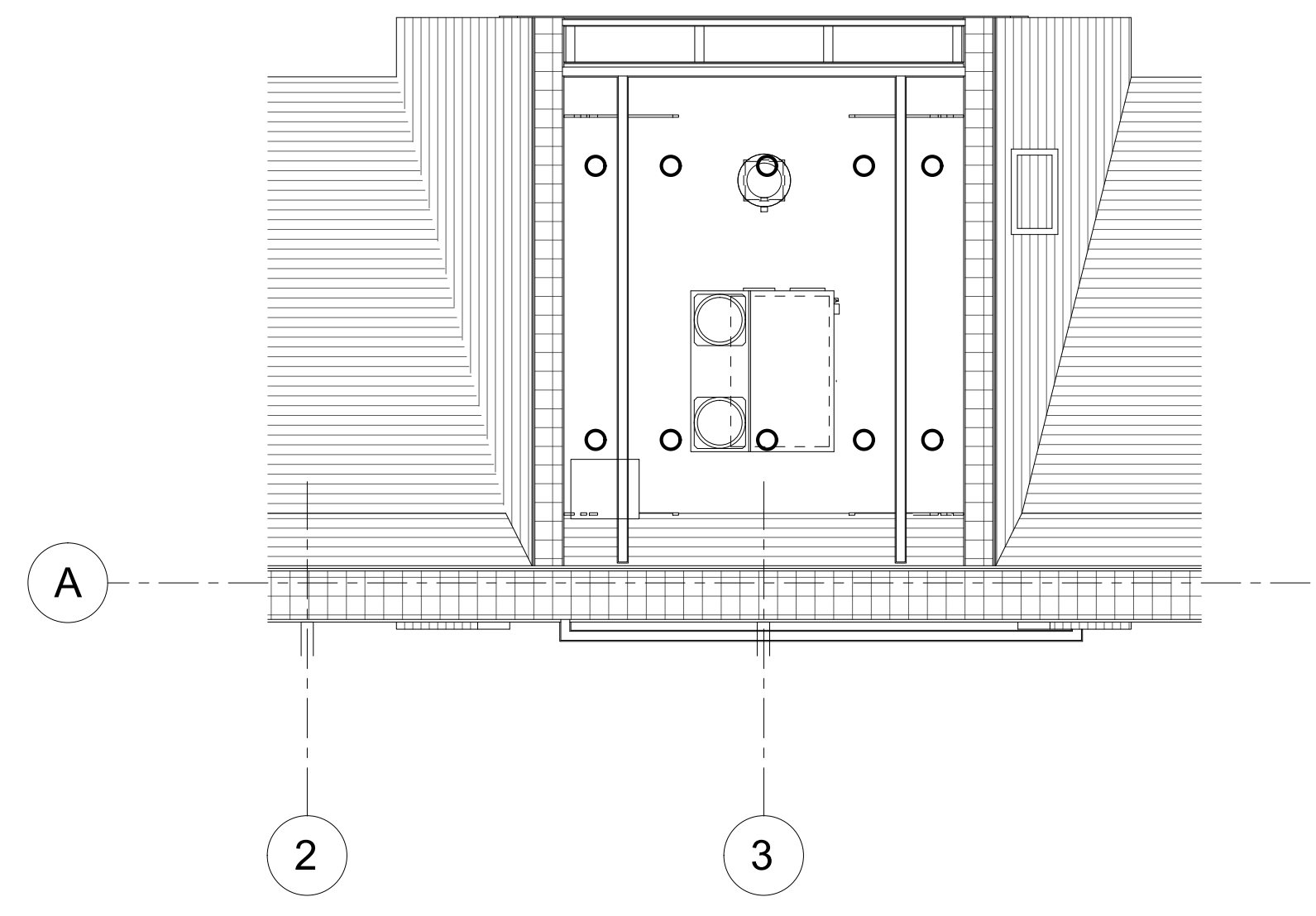
DRAWN BY: RC JOB NUMBER: 18050
CHECKED BY: GGM DATE: 04/18/2024

B-P1.0

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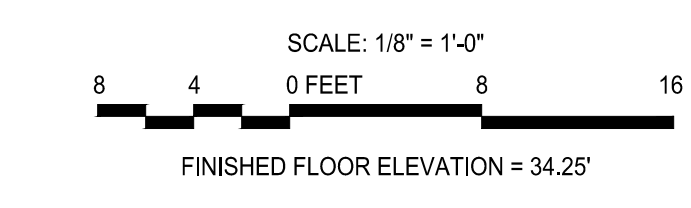


HANGER DETAILS
NOT TO SCALE



PAVILION BUILDING - SPRINKLER HEAD LEGEND

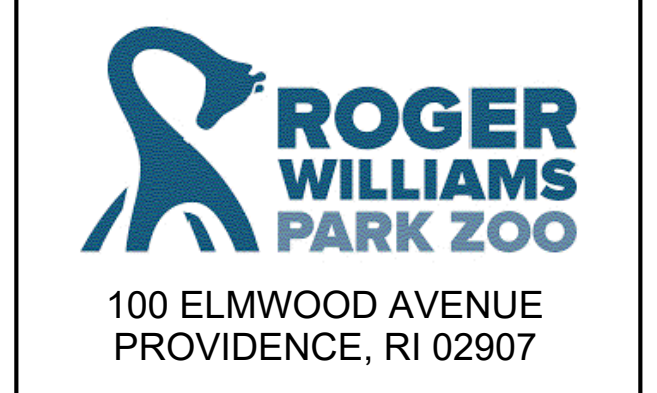
SYM	SPRINKLER TYPE	FINISH	TEMP	K	NPT
●	QUICK RESPONSE RECESSED PENDENT	WHITE	155	5.60	1/2"
⊗	QUICK RESPONSE UPRIGHT	BRASS	175	4.20	1/2"
○	QUICK RESPONSE UPRIGHT	BRASS	155	5.60	1/2"
⊙	QUICK RESPONSE UPRIGHT DN SPRIG	BRASS	155	5.60	1/2"
■	DRY SIDEWALL	CHROME	155	5.60	1/2"



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SHEET TITLE
FIRE PROTECTION PAVILION FLOOR PLAN

DRAWN BY: DDL JOB NUMBER: 18050
CHECKED BY: GGM DATE: 04/18/2024

B-FP1.0

SHEET: OF:

DIMMING/CONTROL PANEL SCHEDULE "DIM-1"

FLOOR / AREA	DIM# CIRCUIT	LUTRON CIRCUIT	ZONE/CIRCUIT DESCRIPTION	LOAD TYPE	ACTUAL LOAD (W/VA)	MAX. LOAD (W/VA)	BREAKER SIZE	CONTROLLER
EVENT SPACE	1	1	PENDANT FIXTURES	LED	600	1920	20A/1P	"GR-1" & "WS-1"
EVENT SPACE	2	2	PENDANT FIXTURES	LED	600	1920	20A/1P	"GR-1" & "WS-1"
EVENT SPACE	3	3	PENDANT FIXTURES	LED	600	1920	20A/1P	"GR-1" & "WS-1"
EVENT SPACE	4	4	WALL FIXTURES	LED	600	1920	20A/1P	"GR-1" & "WS-1"
EVENT SPACE	5	5	WALL FIXTURES	LED	600	1920	20A/1P	"GR-1" & "WS-1"
EVENT SPACE	6	6	WALL FIXTURES	LED	600	1920	20A/1P	"GR-1" & "WS-1"
EVENT SPACE	7	7	WALL FIXTURES	LED	600	1920	20A/1P	"GR-1" & "WS-1"
EVENT SPACE	8	8	WALL FIXTURES	LED	600	1920	20A/1P	"GR-1" & "WS-1"

120/208V, 3-PHASE, 4-WIRE WITH 50AMP / 3-POLE MAIN CIRCUIT BREAKER DIMMING PANEL CONTAINING MINIMUM OF (12) 20A-1POLE BRANCH CIRCUIT BREAKERS.

DIMMING SYSTEM SPECIFICATIONS:

General:

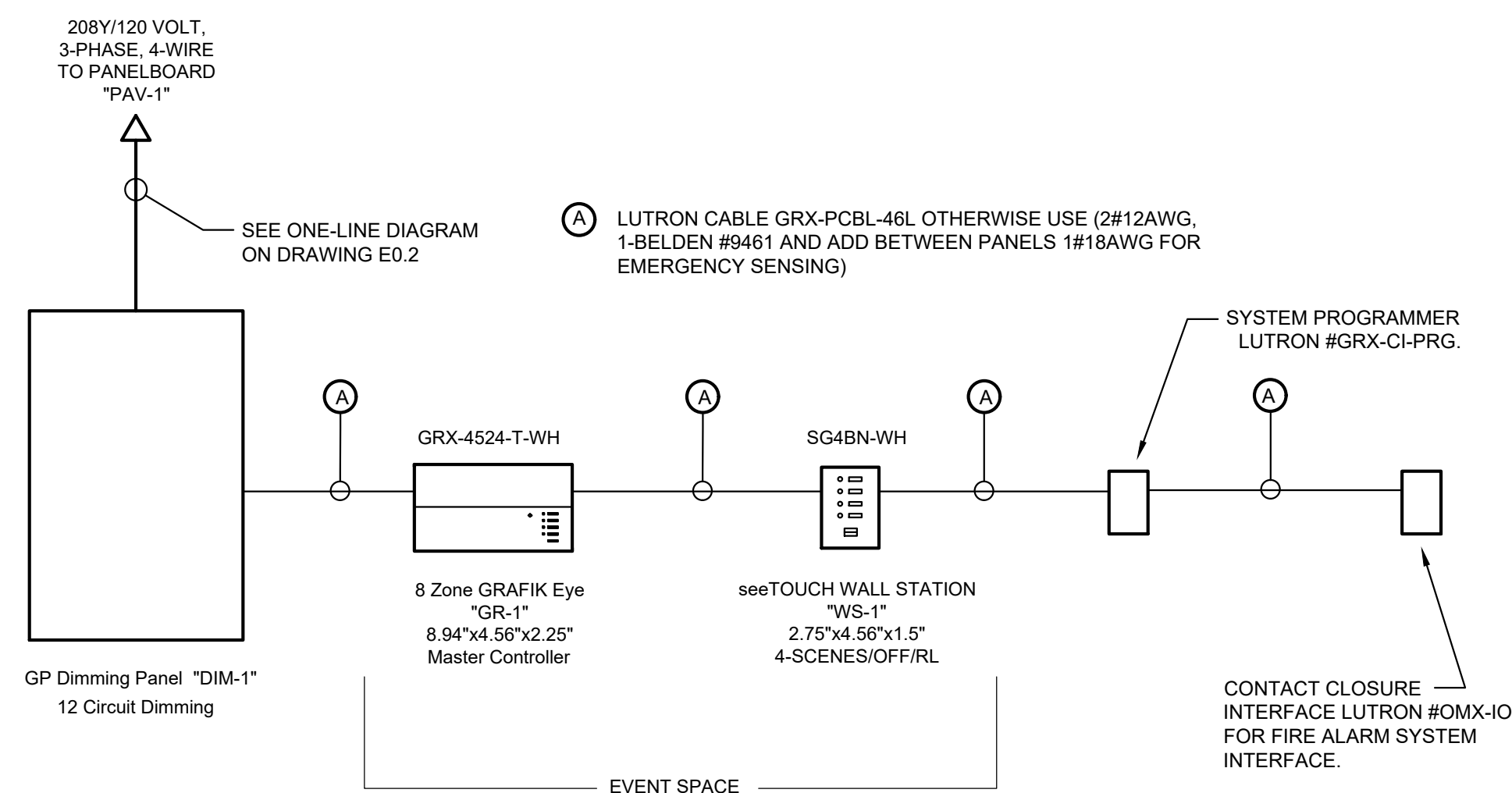
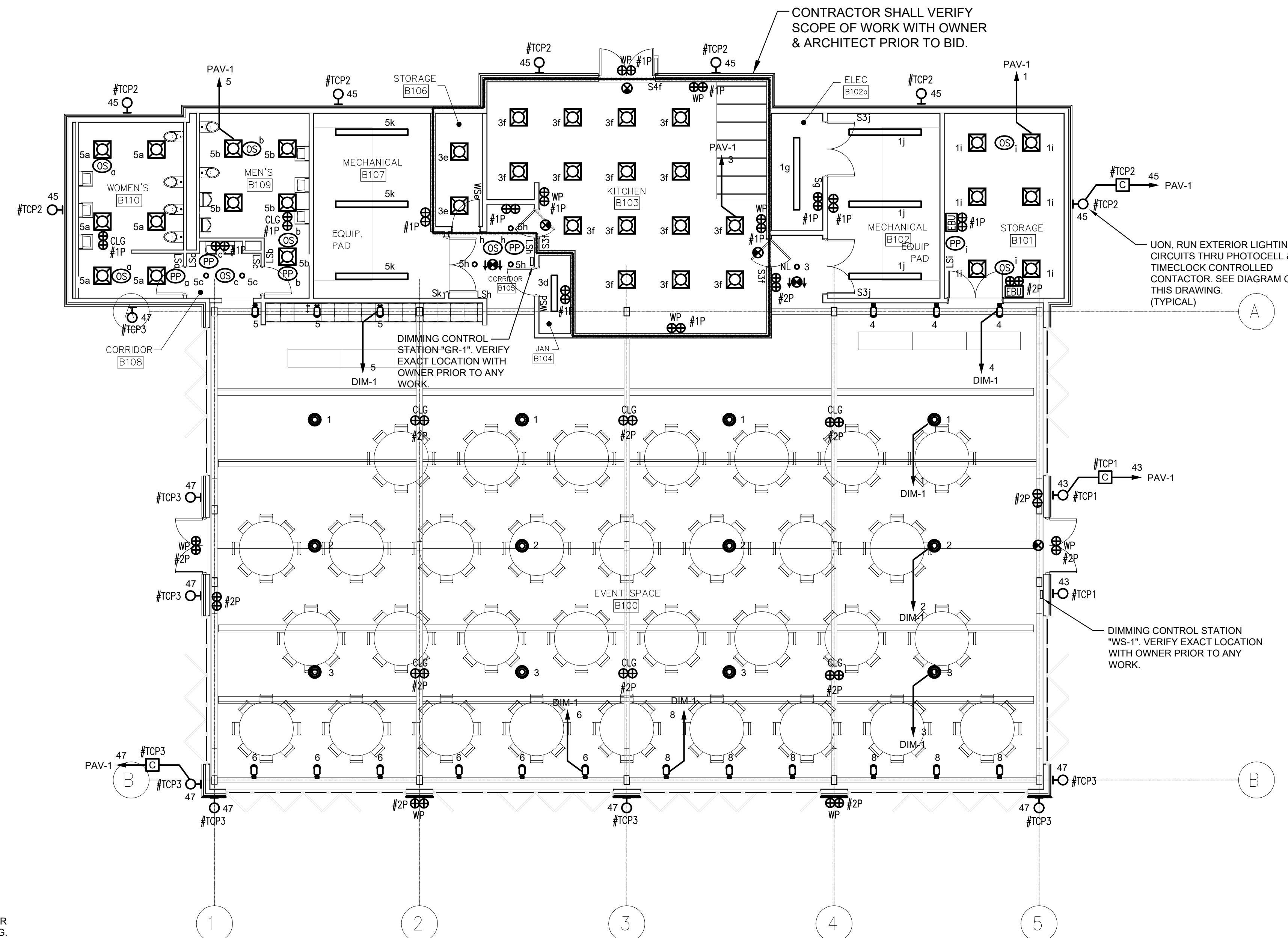
1. ALL INFORMATION INDICATED IS BASED ON LUTRON. EQUAL MANUFACTURERS ARE ACCEPTABLE.
2. THE DIMMING SYSTEM SHALL BE PROVIDED WITH FACTORY COMMISSIONING AND PROGRAMMING. THE MANUFACTURER SHALL PROVIDE A COMPLETE SYSTEM FUNCTION TEST ON THE INSTALLED SYSTEM AND A SYSTEM OPERATION AND MAINTENANCE INSTRUCTION FOR THE END USERS. THE DIMMING SYSTEM SHALL BE COVERED BY A MINIMUM ONE-YEAR WARRANTY FROM TIME OF ACCEPTANCE TEST. THE MANUFACTURER SHALL BE CAPABLE OF PROVIDING ON-SITE SUPPORT WITHIN 24-HOURS.
3. TIE ALL DIMMING PANELS INTO THE FIRE ALARM SYSTEM VIA FIRE ALARM SYSTEM CONTROL MODULES TO TURN ALL LIGHTS ON TO FULL BRIGHTNESS WHEN THE FIRE ALARM SYSTEM IS ACTIVATED. (TYPICAL)
4. SURFACE MOUNT GP DIMMING PANEL. PROVIDE REINFORCING TO WALL STRUCTURE FOR WEIGHT OF PANEL PER THE ARCHITECT'S AND STRUCTURAL ENGINEER'S DIRECTION. (TYPICAL)
5. GP DIMMING PANEL IS AIR COOLED. VENTS SHALL NOT BE BLOCKED OR COVERED IN ANY WAY. LEAVE 12-INCHES OF CLEARANCE ABOVE, BELOW AND IN FRONT OF PANEL. LEAVE CLEARANCES ON SIDES FOR IEC PELV/NEC CLASS 2 WIRING PER MANUFACTURER'S RECOMMENDATIONS. (TYPICAL)
6. GP DIMMING PANEL SHALL BE MOUNTED SO THAT LINE (MANS) VOLTAGE WIRING IS AT LEAST 6-FEET FROM SOUND OR ELECTRONIC EQUIPMENT AND WIRING. (TYPICAL)
7. LIGHTING LAYOUT, CIRCUITING INDICATED, CONTROL OF FIXTURES, ZONING, ETC. INDICATED ON THESE DOCUMENTS IS PERFORMANCE BASED. VERIFY EXACT REQUIREMENTS WITH OWNER, ARCHITECT AND LUTRON PRIOR TO ANY WORK.

Dimming Panels:

3. INTERNAL WIRING OF DIMMING PANELS BY THE MANUFACTURER. E.C. SHALL WIRE ALL LINE FEEDS, LOAD, AND CONTROL WIRING AS REQUIRED. LOW VOLTAGE CLASS 2 (PELV) WIRING SHALL CONNECT DIMMING PANELS TO OTHER COMPONENTS. COORDINATE WITH MANUFACTURER FOR ALL EXACT WIRING REQUIREMENTS. (TYPICAL)
4. PANELS SHALL BE COOLED VIA FREE-CONVECTION. UNAIDED BY FANS, AND CAPABLE OF CONTINUOUS OPERATION TO ALL OF THESE SPECIFICATIONS WITHIN AN AMBIENT TEMPERATURE RANGE OF 32-DEGREES FAHRENHEIT TO 104-DEGREES FAHRENHEIT. PANEL SHALL PROVIDE CAPABILITY TO ELECTRONICALLY ASSIGN EACH CIRCUIT TO ANY ZONE IN THE DIMMING SYSTEM. PANELS USING MECHANICAL SWITCHES, REWIRING OR EPROMS SHALL NOT BE ACCEPTABLE.
5. A POSITIVE AIR GAP RELAY SHALL BE EMPLOYED WITH EACH DIMMER TO ENSURE THAT THE LOAD CIRCUITS ARE OPEN WHEN THE "OFF" FUNCTION IS SELECTED AT A CONTROL STATION.
6. DIMMERS SHALL OPERATE THE FOLLOWING SOURCES/LOAD TYPES WITH A SMOOTH CONTINUOUS SQUARE LAW DIMMING CURVE: INCANDESCENT, TUNGSTEN AND MAGNETIC LOW VOLTAGE TRANSFORMER, ELECTRONIC LOW VOLTAGE TRANSFORMER, FLUORESCENT ELECTRONIC DIMMING BALLAST, NEON AND COLD-CATHODE.
7. DIMMERS SHALL BE CAPABLE OF OPERATING SOURCES ON A NON-DIM BASIS. DIMMERS SHALL BE ELECTRONICALLY ASSIGNED TO THE APPROPRIATE LOAD TYPE/DIMMING CURVE AND CAN BE REASSIGNED AT ANY TIME. UNIVERSAL-TYPE DIMMERS THAT DO NOT ADJUST THE DIMMING CURVE SHALL NOT BE ACCEPTABLE.

Control Units:

8. PRESET DIMMING CONTROL SHALL INCORPORATE AN AIR GAP SWITCH RELAY WHICH SHALL BE ACCESSIBLE WITHOUT REMOVING THE FACEPLATE.
9. PRESET DIMMING CONTROL SHALL MEET ANSI/IEEE Std. C62.41-1980, TESTED TO WITHSTAND VOLTAGE SURGES OF UP TO 6000V AND CURRENT SURGES OF UP TO 200A WITHOUT DAMAGE.
10. PRESET DIMMING CONTROL SHALL PROVIDE POWER FAILURE MEMORY.
11. FACEPLATE SHALL ATTACH USING NO VISIBLE MEANS OF ATTACHMENT.
12. PROGRAMMING OF PRESET SCENES SHALL BE ACCOMPLISHED WITHOUT THE USE OF AN ENTER OR STORE BUTTON.
13. see TOUCH WALL STATION CONTROLLERS SHALL BE A 4-BUTTON WITH "OFF" CONTROL UNIT.
14. PROVIDE INTEGRAL TIMECLOCK TO AUTOMATICALLY TURN LIGHTS "ON" AND "OFF" AT A PROGRAMMED TIME.
15. WHEN NORMAL UTILITY COMPANY POWER IS LOST THE EMERGENCY LIGHTING SHALL BE TURNED UP TO FULL BRIGHTNESS.



DIMMING SYSTEM ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL NOTE:

REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR LIGHTING FIXTURE TYPES AND MAKE / MODEL NUMBERS. (TYPICAL)

1 PAVILION FLOOR PLAN - LIGHTING
E3-1 1/8" = 1'-0"



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Revision Schedule

Revision Number	Revision Date

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SHEET TITLE

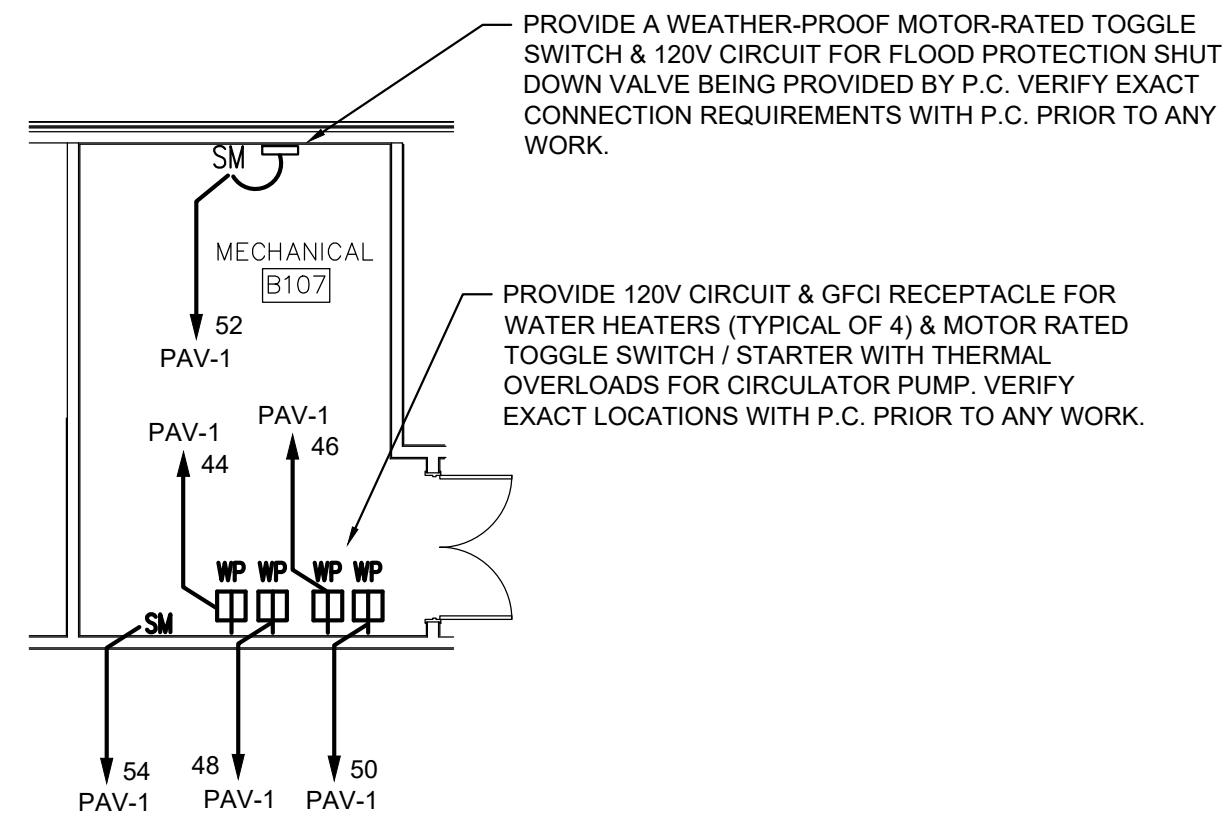
**ELECTRICAL
LOWER LEVEL
FLOOR PLAN -
LIGHTING**

DRAWN BY: SPC JOB NUMBER: 18050

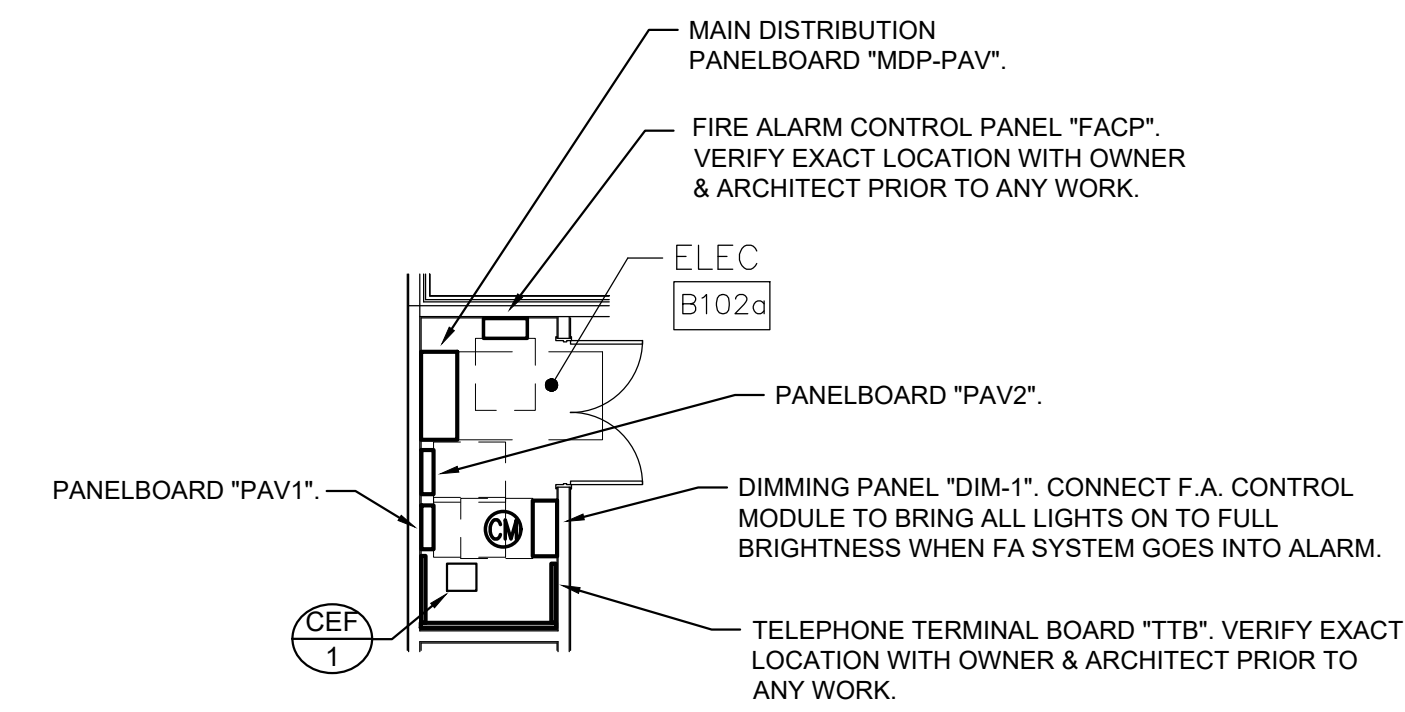
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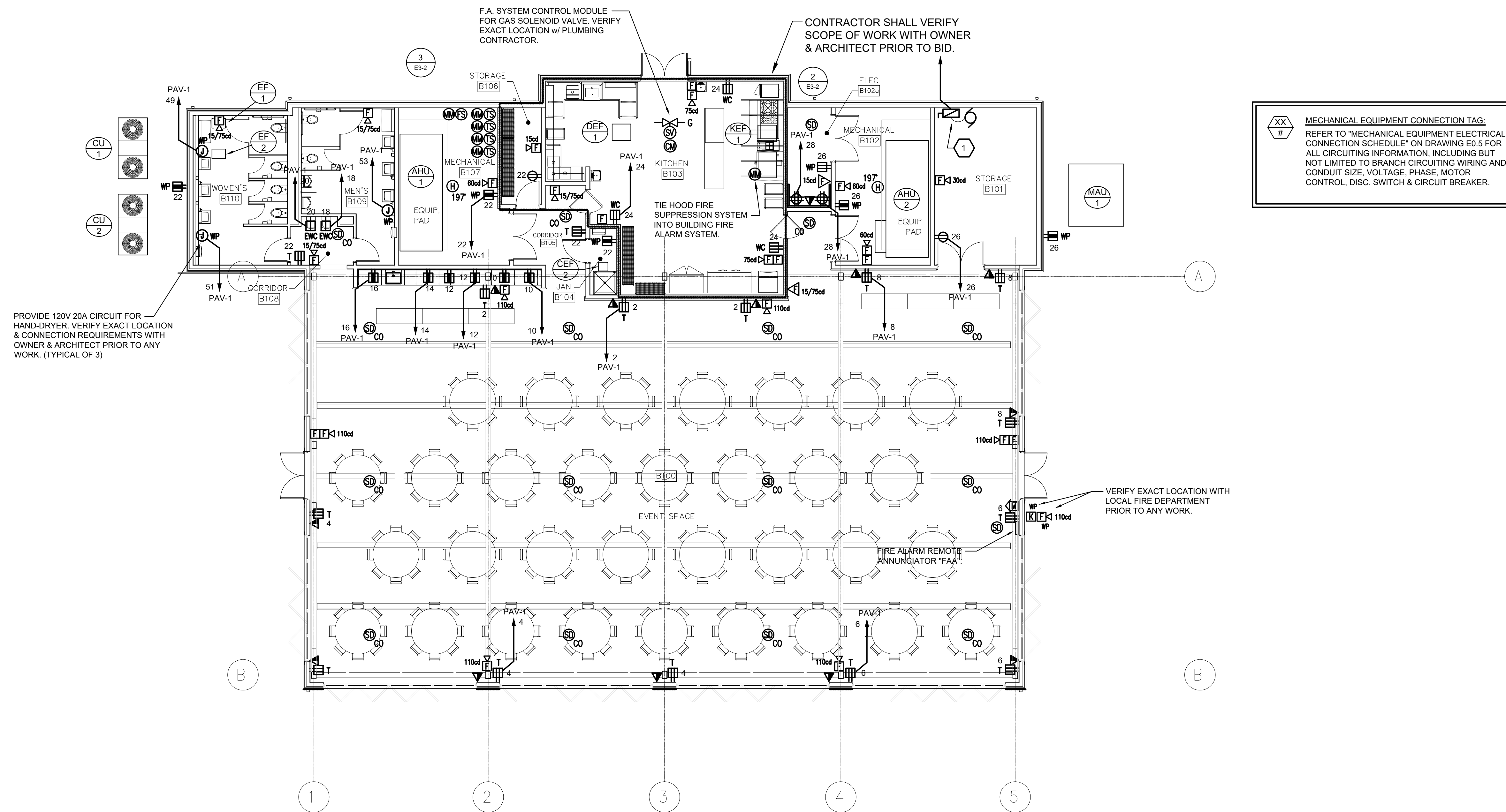
SHEET: OF:



3 PART PLAN - MECH B107
E3-2 1/8" = 1'-0"



2 PART PLAN - ELEC B102a
E3-2 1/8" = 1'-0"



1 PAVILION FLOOR PLAN - POWER & SIGNAL
E3-2 1/8" = 1'-0"



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Revision Schedule	
Revision Number	Revision Date

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SHEET TITLE
**ELECTRICAL
LOWER LEVEL
FLOOR PLAN -
POWER &
SIGNAL**

DRAWN BY: SPC JOB NUMBER: 18050
CHECKED BY: RWD DATE: 04/18/2024

B-E3.2

SHEET: OF:

KITCHEN EQUIPMENT SCHEDULE

ITEM #	QTY	DESCRIPTION	ELECTRICAL CHARACTERISTICS						CIRCUIT	CIRCUIT BREAKER (HACR TYPE)	FEEDER & CONDUIT	LOCAL DISCONNECT SWITCH / RECEPTACLE
			VOLTAGE / PHASE	AMPS	HP	KW	DIRECT	PLUG				
1	1	CONVECTION OVEN, GAS	120 / 1	8	-	-	-	X	PAV-1 / 7	15/1 (S.T.)	2#12 + 1#12G IN 3/4"C.	GFCI NEMA 5-15R RECEPTACLE
	1	CONVECTION OVEN, GAS	120 / 1	8	-	-	-	X	PAV-1 / 9	15/1 (S.T.)	2#12 + 1#12G IN 3/4"C.	GFCI NEMA 5-15R RECEPTACLE
	1	CONVECTION OVEN, GAS	120 / 1	8	-	-	-	X	PAV-1 / 11	15/1 (S.T.)	2#12 + 1#12G IN 3/4"C.	GFCI NEMA 5-15R RECEPTACLE
	1	CONVECTION OVEN, GAS	120 / 1	8	-	-	-	X	PAV-1 / 13	15/1 (S.T.)	2#12 + 1#12G IN 3/4"C.	GFCI NEMA 5-15R RECEPTACLE
2	1	FRYER, DEEP FAT, GAS	120 / 1	8	-	-	X	PAV-1 / 15	15/1 (S.T.)	2#12 + 1#12G IN 3/4"C.	HEAVY DUTY NEMA-3R MOTOR RATED TOGGLE SWITCH / STARTER	
9	1	STEAMER, CONVECTION, ELECTRIC	208 / 3	45.9	-	-	X	PAV-1 / 17,19,21	60/3 (S.T.)	3#4 + 1#8G IN 1-1/2"C.	60AF/60AT/3P/NEMA-3R	
10	1	WAREWASHER, DOOR TYPE, HIGH TEMP	208 / 3	40	-	-	X	PAV-1 / 31,33,35	50/3	3#6 + 1#8G IN 1-1/2"C.	60AF/50AT/3P/NEMA-3R	
12	1	REFRIGERATOR, ROLL-IN	120 / 1	11.8	-	-	-	X	PAV-1 / 23	15/1	2#12 + 1#12G IN 3/4"C.	GFCI NEMA 5-15R RECEPTACLE
13	1	REFRIGERATOR, REACH-IN	120 / 1	5.7	-	-	-	X	PAV-1 / 25	15/1	2#12 + 1#12G IN 3/4"C.	GFCI NEMA 5-15R RECEPTACLE
14	1	FREEZER, REACH-IN	120 / 1	9.6	-	-	-	X	PAV-1 / 27	15/1	2#12 + 1#12G IN 3/4"C.	GFCI NEMA 5-15R RECEPTACLE
18	1	ICE MAKER W/BIN	120 / 1	12.8	-	-	-	X	PAV-1 / 29	15/1	2#12 + 1#12G IN 3/4"C.	GFCI NEMA 5-15R RECEPTACLE
EH1	1	HOOD, EXHAUST	120 / 1	-	-	-	-	X	PAV-1 / 37	20/1	2#12 + 1#12G IN 3/4"C.	HEAVY DUTY NEMA-3R MOTOR RATED TOGGLE SWITCH / STARTER
	1	FIRE SUPPRESSION SYSTEM FOR ITEM #EH1	120 / 1	-	-	-	-	X	PAV-1 / 39	20/1	2#12 + 1#12G IN 3/4"C.	HEAVY DUTY NEMA-3R MOTOR RATED TOGGLE SWITCH / STARTER

NOTE:
 ALL FOODSERVICE EQUIPMENT SHALL BE PROVIDED WITH A NEW ELECTRICAL CIRCUIT, OCPD, CONNECTION, LOCAL DISCONNECTING MEANS, ETC... FOR A COMPLETE AND OPERATING ELECTRICAL INSTALLATION. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL AND CONNECTION REQUIREMENTS, INCLUDING RECEPTACLE NEMA CONFIGURATIONS, DISCONNECT SWITCH SIZES, CIRCUIT SIZES, CIRCUIT BREAKER SIZES, ETC.. FOR ALL FOODSERVICE EQUIPMENT WITH THE APPROVED FOODSERVICE EQUIPMENT SHOP DRAWING SUBMITTALS PRIOR TO ORDERING ANY ELECTRICAL MATERIAL OR PERFORMING ANY RELATED LABOR. ANY DISCREPANCIES BETWEEN THE FOODSERVICE EQUIPMENT SCHEDULE & PLANS AND THE APPROVED FOODSERVICE EQUIPMENT SHOP DRAWING SUBMITTALS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE & ARCHITECT FOR RESOLUTION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN AS-BUILT PLAN INDICATING THE LAYOUT OF THE KITCHEN EQUIPMENT AND ALL CIRCUIT INFORMATION AT THE COMPLETION OF THE CONSTRUCTION. ABBREVIATION (S.T.) INDICATES SHUNT-TRIP TYPE CIRCUIT BREAKER.

Notes: Following apply to all Kitchen & Bar Equipment.

Connections, stub-outs and dimensions shown are to be used for estimating engineering requirements only. No architectural or engineering service is intended or assumed.

The Kitchen Equipment Contractor shall provide accurate 3/8" x 1'-0" stub-outs plans showing exact sizes and locations of all service stubs through walls and/or floors. Services of fixtures shall come out of walls whenever possible allowing clearance for traps, valves, switches, and the like.

Traps, drainlines, grease interceptors, shut-off valves and connecting piping shall be provided and installed by the Plumbing Sub-Contractor.

Conduit, junction boxes, outlets, disconnects, and connecting wiring shall be provided and installed by the Electrical Sub-Contractor. Interwiring of refrigeration components and remote controls such as found on a garbage disposer shall be installed by the Electrical Sub-Contractor.

Blowers, ductwork and duct connections shall be provided and installed by the Heating and Ventilation Sub-Contractor. Controls for such systems shall be provided and installed by the specified sub-contractor.

All mounting heights to be verified with equipment specifications prior to installation of services.

All exposed utility lines and pipes shall be installed in a way that does not obstruct or prevent the cleaning of floors, walls and ceiling area. Minimum 6" off floors.

Penetrations of any countertops, bases, gables, etc. by drains to be sealed with caulking.

KITCHEN & BAR NOTES

1. PANELBOARDS SERVING KITCHEN EQUIPMENT SHALL BE FURNISHED WITH SHUNT-TRIP TYPE CIRCUIT BREAKERS WHICH SHALL BE INTERFACED WITH A SET OF CONTACTS ON THE HOOD FIRE SUPPRESSION SYSTEM TO CAUSE AUTOMATIC INTERRUPTION OF POWER WHENEVER THE FIRE SUPPRESSION SYSTEM IS ACTUATED. A PAIR OF CONDUCTORS SHALL ALSO BE RUN TO GAS SOLENOID VALVE TO CAUSE GAS SOURCE TO EQUIPMENT UNDER HOOD TO BE SHUT OFF.

2. PROVIDE SHUNT-TRIP TYPE CIRCUIT BREAKERS AS DESCRIBED IN NOTE 1, ABOVE FOR ANY EQUIPMENT LOCATED BELOW THE KITCHEN EXHAUST HOODS.

3. E.C. SHALL PROVIDE & INSTALL SWITCH TO CONTROL EXHAUST HOOD LIGHT. COORDINATE WITH ARCHITECT & VENDOR FOR EXACT SWITCH REQUIREMENTS AND LOCATION.

4. E.C. SHALL MAKE ALL DIRECT CONNECTIONS WITH LIQUID-TIGHT FLEXIBLE METAL CONDUIT UNLESS OTHERWISE NOTED. CONNECTIONS TO MOVABLE EQUIPMENT SHALL INCLUDE SUFFICIENT SLACK TO ALLOW EQUIPMENT TO BE PULLED AWAY FROM WALL FOR SERVICING.

5. E.C. SHALL COORDINATE ALL CORD & PLUG CONNECTIONS WITH THE FOOD SERVICE EQUIPMENT SUPPLIER TO ENSURE PROPER RECEPTACLE CONFIGURATIONS & LOCATIONS OF OUTLETS.

6. E.C. SHALL FURNISH AND INSTALL ALL NECESSARY 24V INTERLOCK WIRING BETWEEN THE EVAPORATOR AND CONDENSING UNITS. REFER TO FOOD SERVICE EQUIPMENT MANUFACTURER'S WIRING DIAGRAMS FOR EXACT REQUIREMENTS.

7. E.C. SHALL WIRE KITCHEN FIRE SUPPRESSION SYSTEM INTO THE FIRE ALARM SYSTEM VIA AN INDIVIDUAL ADDRESSABLE MODULE. REFER TO FIRE ALARM SYSTEM ONE-LINE DIAGRAM ON ELECTRICAL DRAWINGS.

8. E.C. SHALL REFER TO "FOOD SERVICE EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" FOR CIRCUITING INFORMATION NOT SHOWN ON PLAN.

9. E.C. SHALL PROVIDE DISCONNECT SWITCHES FOR ALL DIRECT CONNECTED EQUIPMENT TO MEET CODE.

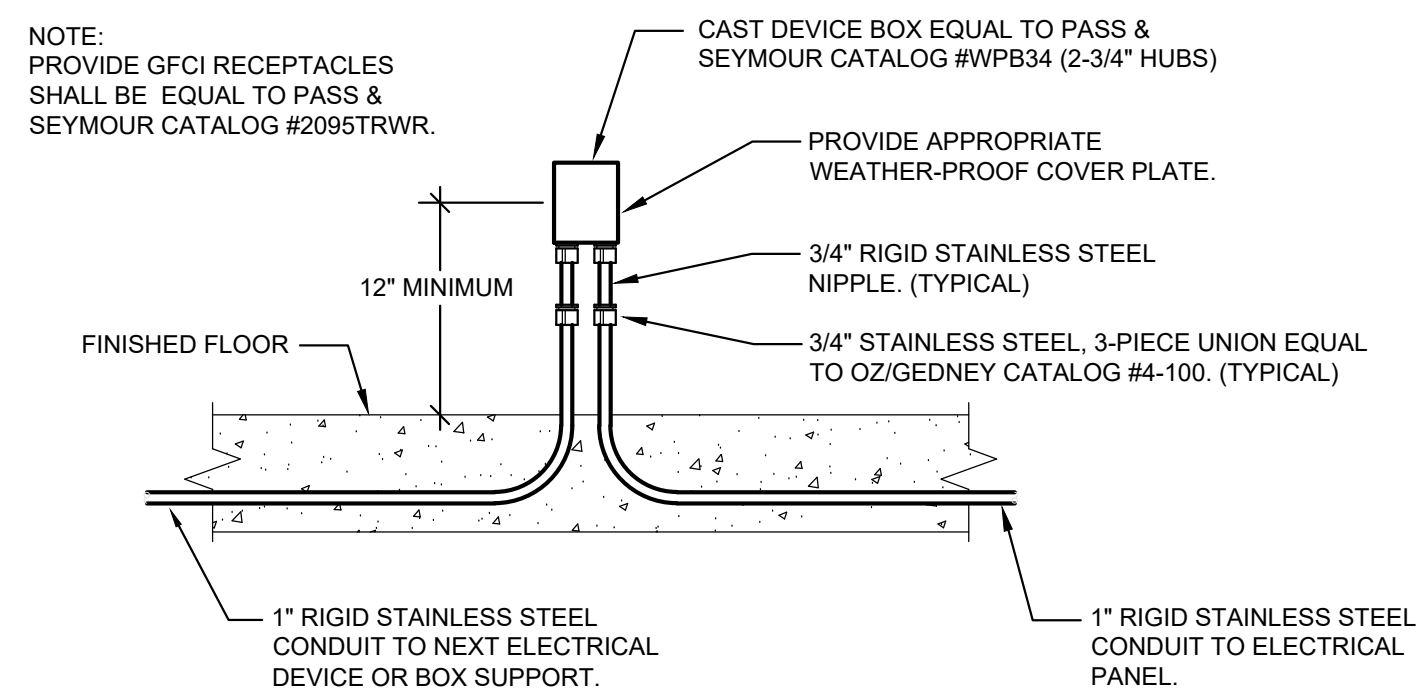
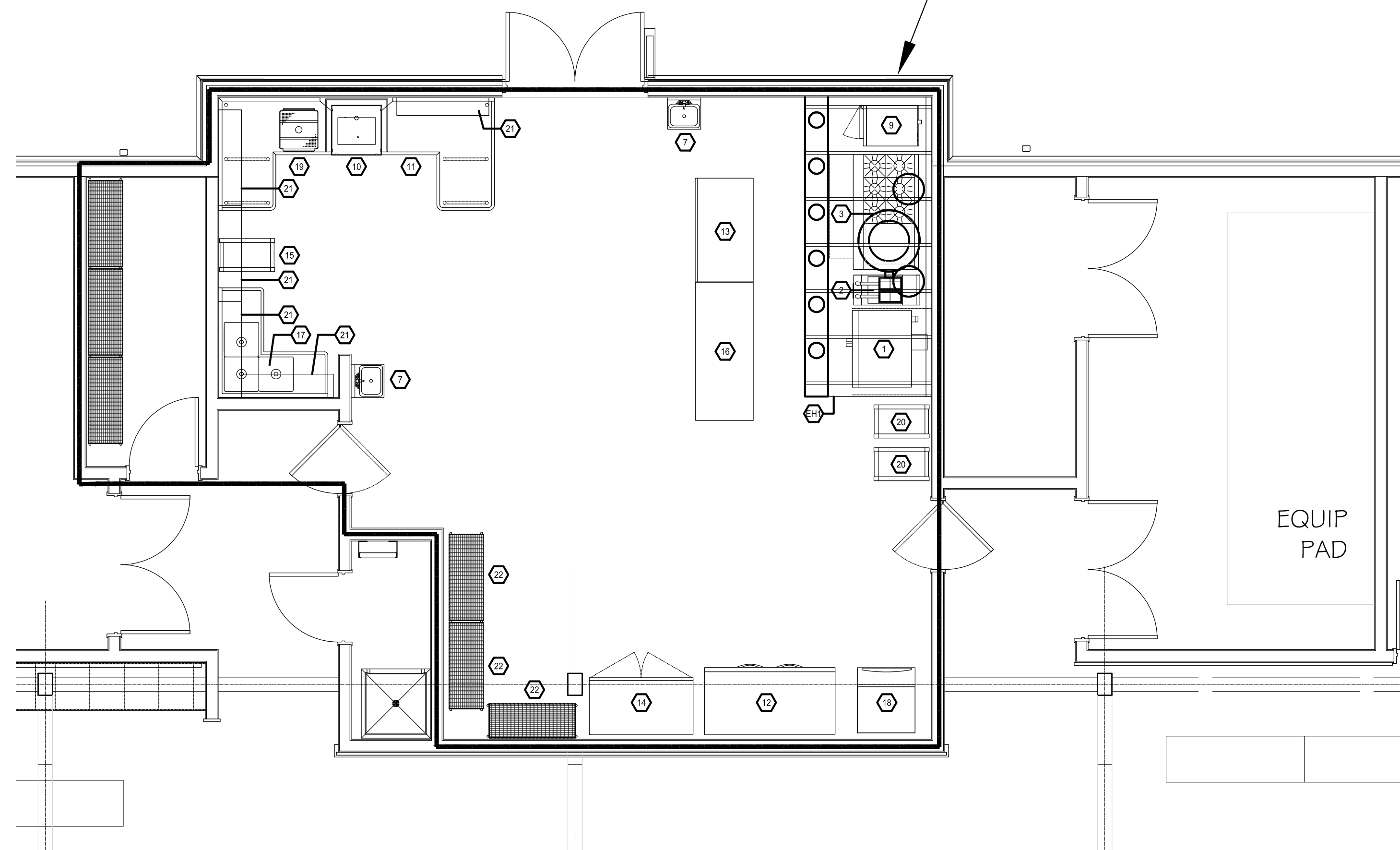
10. ALL RECEPTACLES LOCATED IN THE KITCHEN & BAR AREAS SHALL BE GFCI TYPE RECEPTACLES PER CODE. ALL GFCI RECEPTACLES DEDICATED TO EQUIPMENT SHALL BE PROVIDED WITH WEATHER-PROOF WHILE-IN-USE COVERS AND ALL CONVENIENCE GFCI RECEPTACLES SHALL BE PROVIDED WITH WEATHER-PROOF "FLIP-LID" COVERS.

FOOD SERVICE EQUIPMENT CONNECTION TAG:

REFER TO "EQUIPMENT SCHEDULE" ON THIS DRAWING FOR ALL CIRCUITING INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITING WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISC. SWITCH & CIRCUIT BREAKER. NOT ALL CONNECTION TAGS SHOWN REQUIRE ELECTRICAL CONNECTIONS.

EQUIPMENT ITEM

CONTRACTOR SHALL VERIFY SCOPE OF WORK WITH OWNER & ARCHITECT PRIOR TO BID.



FREE STANDING ELECTRICAL BOX DETAIL

NOT TO SCALE

1
E3-3

PAVILION PART PLAN - KITCHEN EQUIPMENT

1/8" = 1'-0"



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Revision Schedule

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SHEET TITLE
**ELECTRICAL
 LOWER LEVEL
 PART PLAN -
 KITCHEN
 EQUIPMENT**

DRAWN BY: SPC JOB NUMBER: 18050

CHECKED BY: RWD DATE: 04/18/2024

B-E3.3

SHEET: OF:

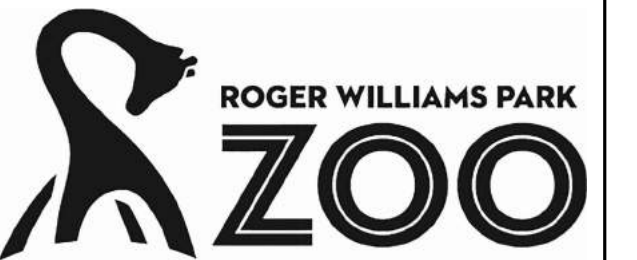


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ANIMAL BUILDING

ISSUED FOR BID
 April 18, 2024



1000 ELMWOOD AVENUE,
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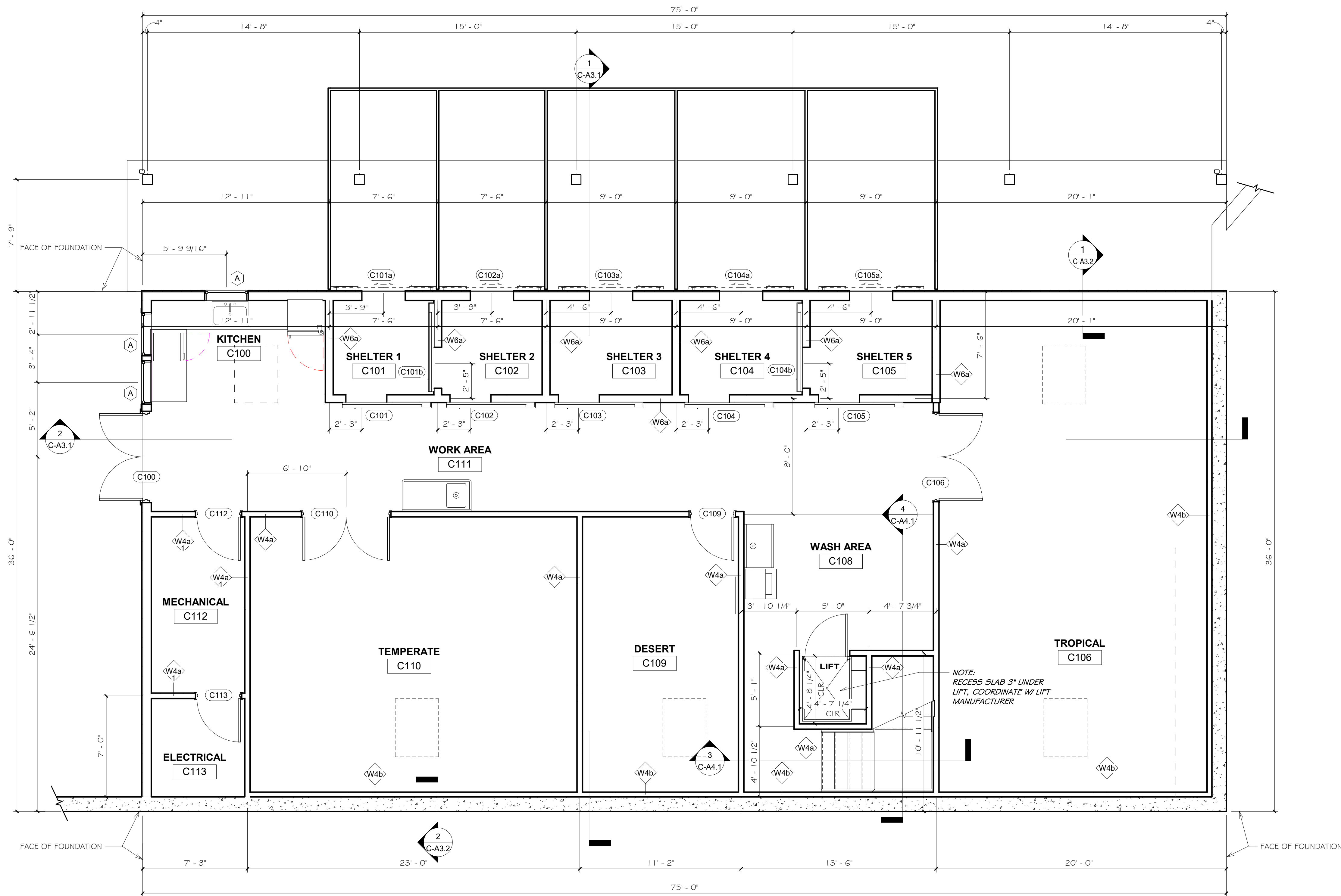
Revision Number	Revision Date

SHEET TITLE
1st FLOOR PLAN

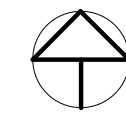
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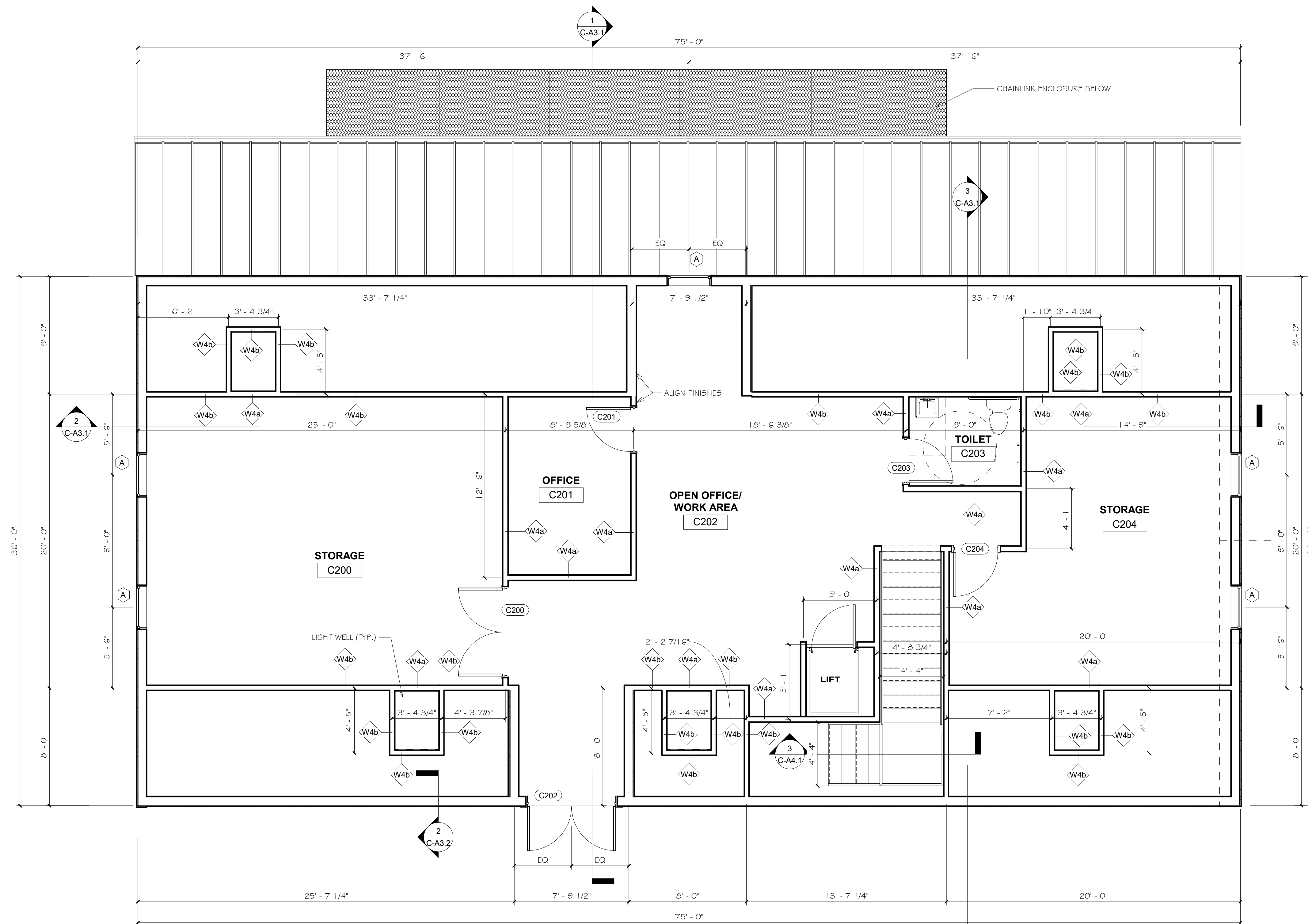
C-A1.1

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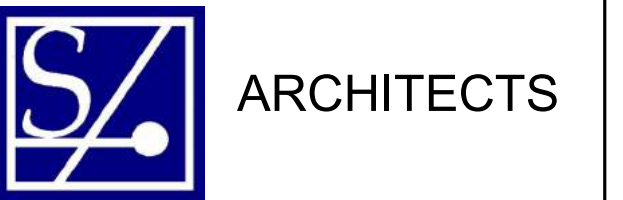


1st FLOOR PLAN
 1/4" = 1'-0"





1
C-A1.2
2nd FLOOR PLAN
1/4" = 1'-0"

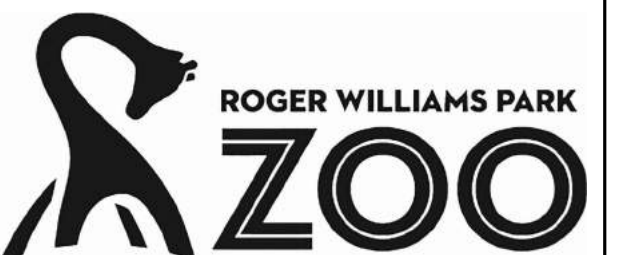


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ANIMAL BUILDING

ISSUED FOR BID
 April 18, 2024



1000 ELMWOOD AVENUE,
 PROVIDENCE, RI 02907

Revision Schedule

Revision Number	Revision Date

SHEET TITLE
2nd FLOOR PLAN

DRAWN BY: KC JOB NUMBER: 18050
 CHECKED BY: MS DATE: 02-06-2024

C-A1.2

SHEET: OF:

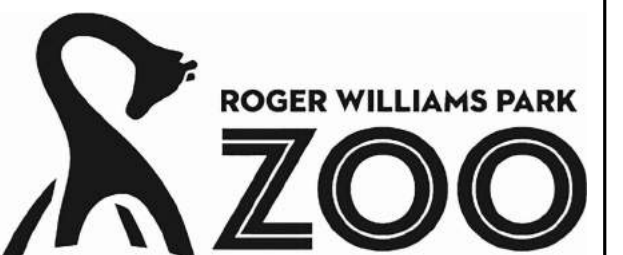


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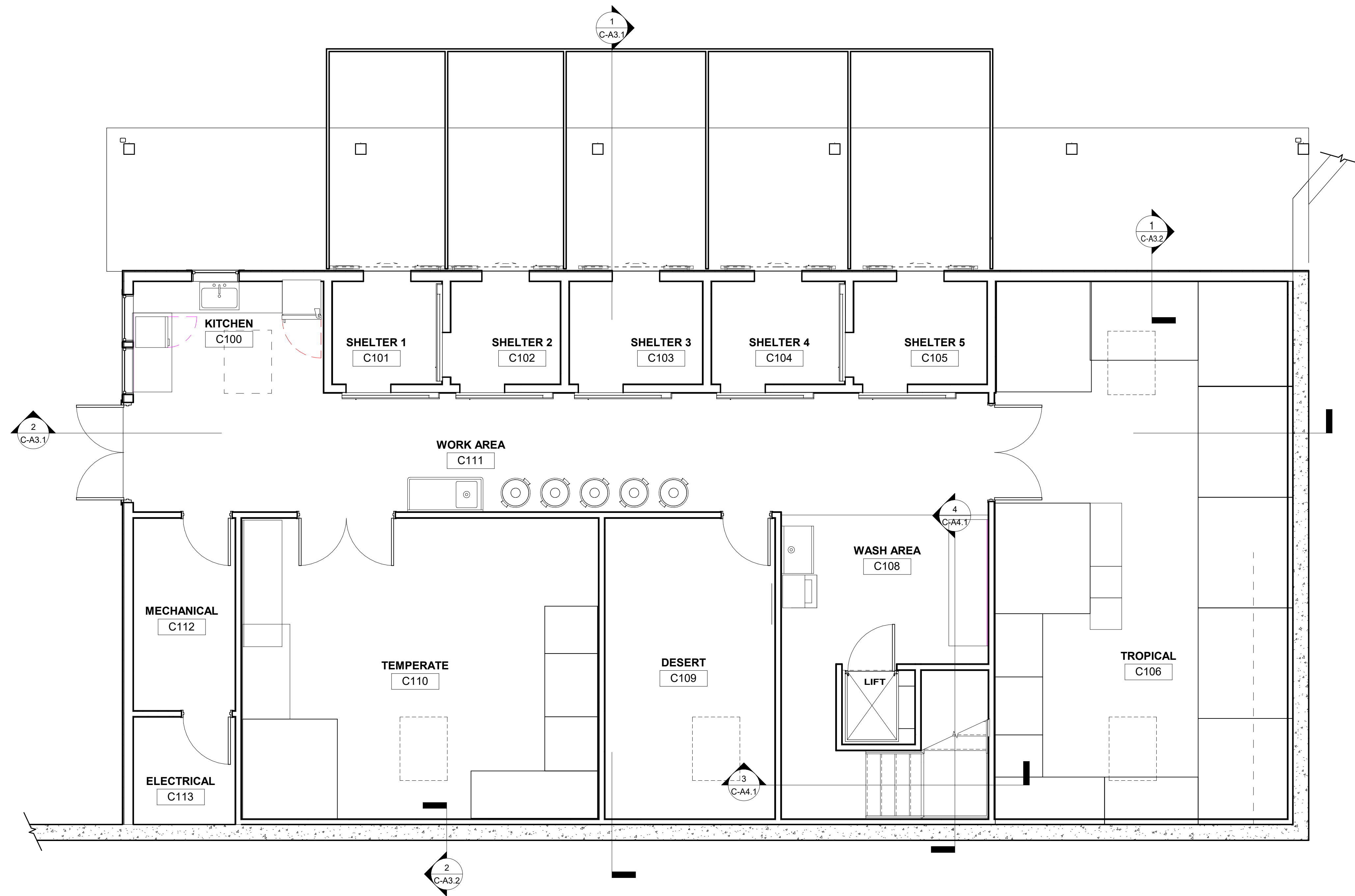
Revision Number	Revision Date

SHEET TITLE
EQUIPMENT PLAN

DRAWN BY: Author JOB NUMBER: 18050
 CHECKED BY: Checker DATE: 02-06-2024

C-A1.3

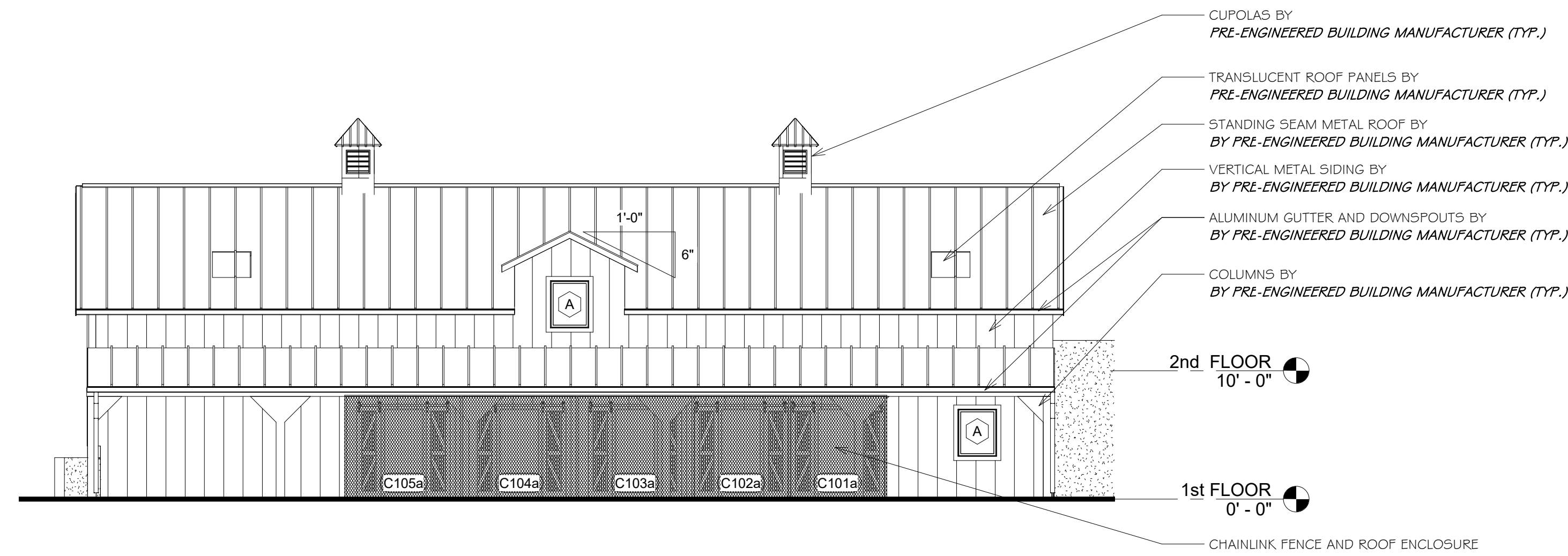
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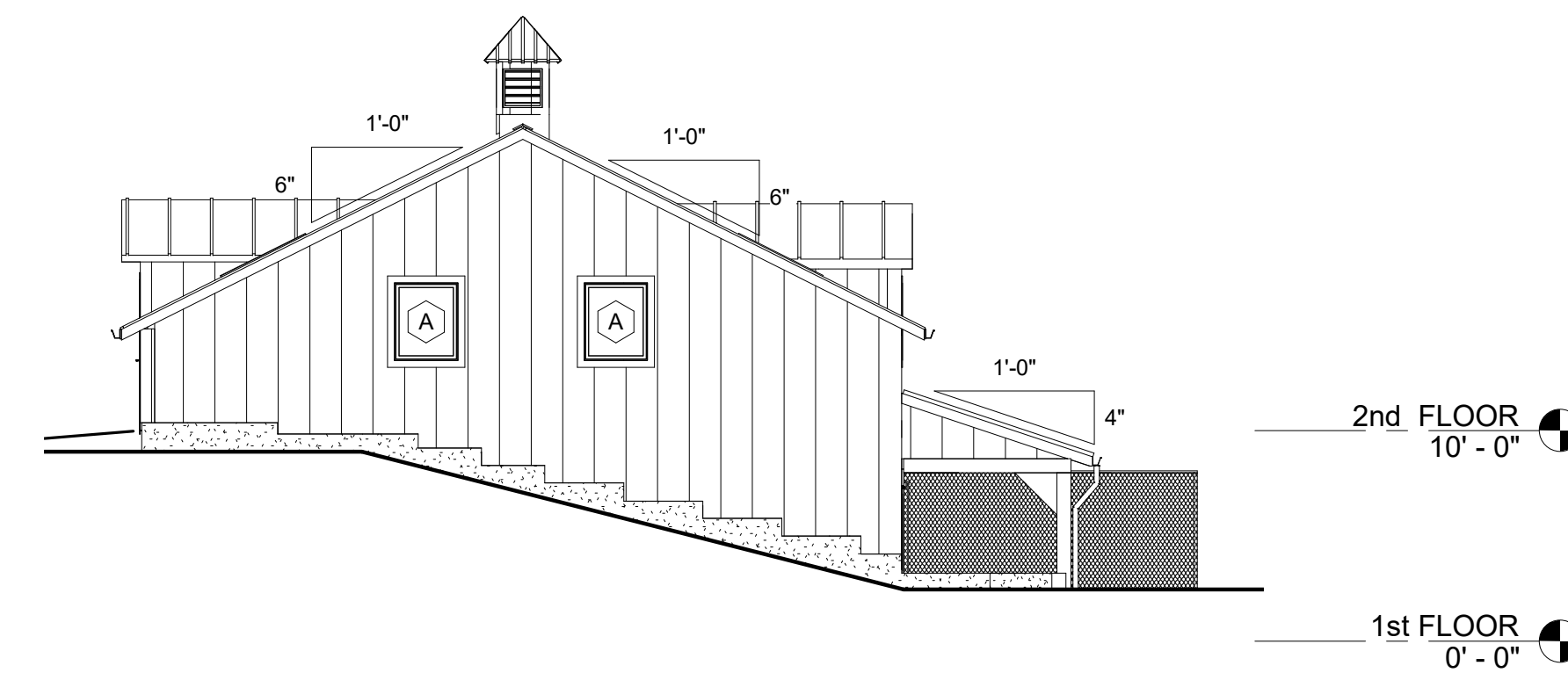
1st FLOOR EQUIPMENT PLAN
 1/4" = 1'-0"

EXTERIOR ELEVATION NOTES

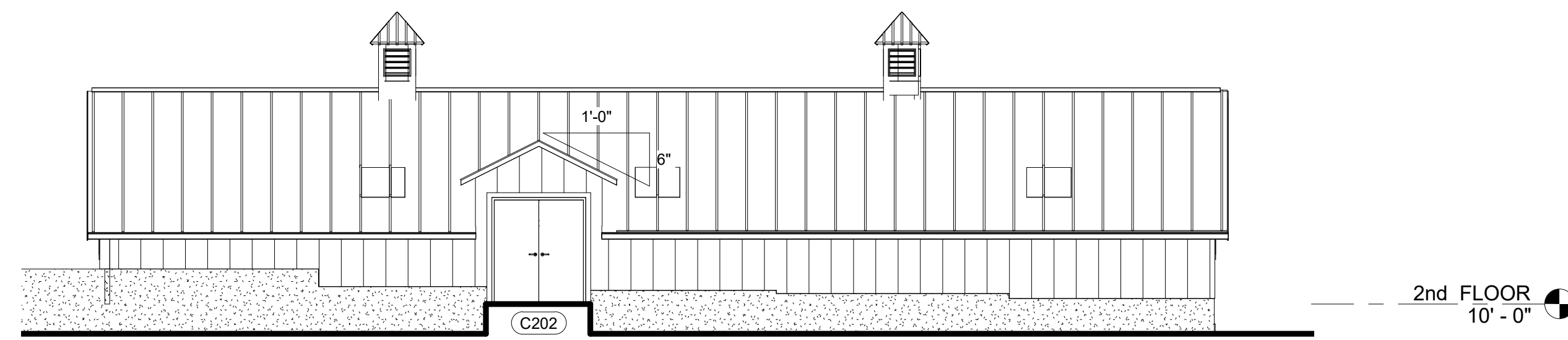
1. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION AND CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.
2. PROVIDE PLINTH BLOCKS BEHIND ALL EXTERIOR LIGHTING, VENTS, LOUVERS, PIPES AND OTHER PENETRATIONS THROUGH THE EXTERIOR WALLS. SEE TYPICAL PLINTH BLOCK DETAILS.
3. FIRST FLOOR REFERENCE ELEVATION X' - X' = SURVEY ELEVATION X.X'.
4. REFER TO OTHER SHEETS FOR WINDOW AND DOOR SCHEDULES AND DETAILS.
5. REFER TO REFLECTED CEILING PLANS FOR EXTERIOR SOFFIT INFORMATION.
6. PROVIDE A CONTROL JOINT AT ALL MASONRY REENTRANT CORNERS.
7. COORDINATE FINAL LOCATIONS OF EXTERIOR HVAC UNITS, LOUVERS AND VENTS WITH ARCHITECT PRIOR TO ROUGH-IN INSTALLATION.
8. SPACING AT ALL EXTERIOR VERTICAL MULLIONS SHALL BE DIVIDED EQUALLY, UNLESS OTHERWISE NOTED.
9. EXACT LOCATIONS OF OPENINGS MUST BE COORDINATED IN THE FIELD.



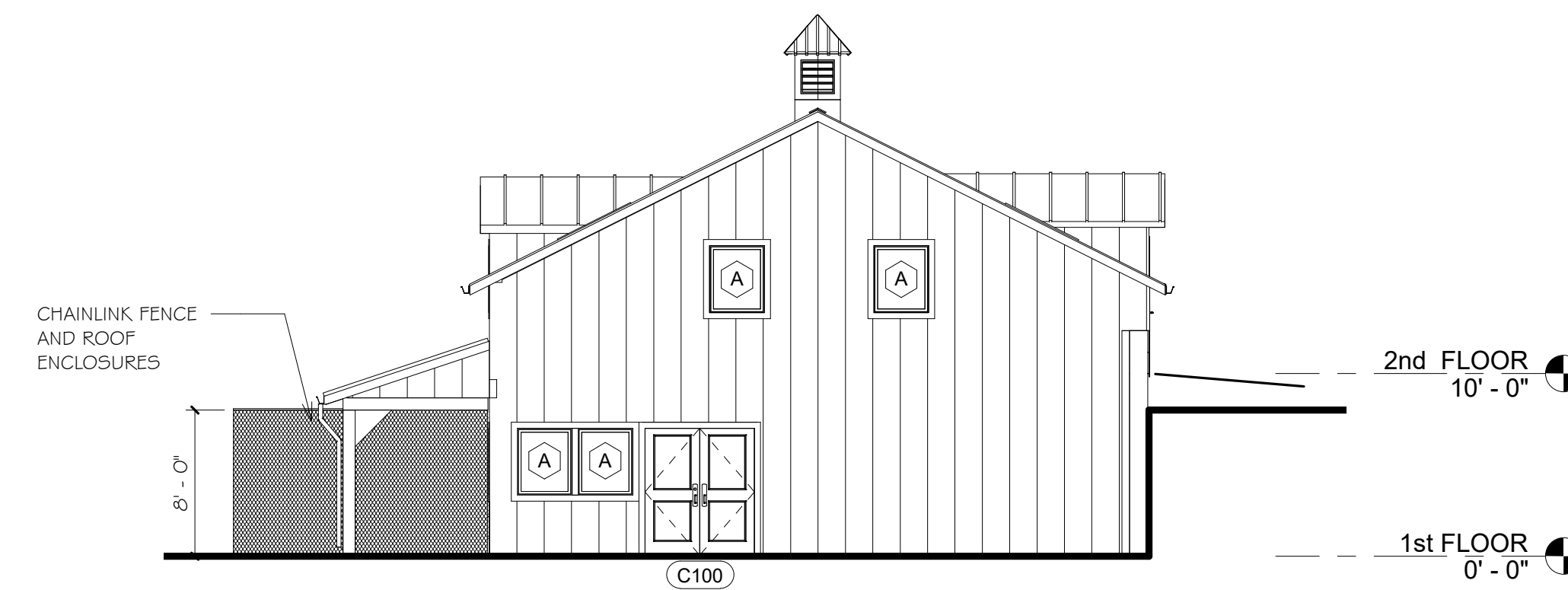
1 NORTH ELEVATION
C-A2.1 1/8" = 1'-0"



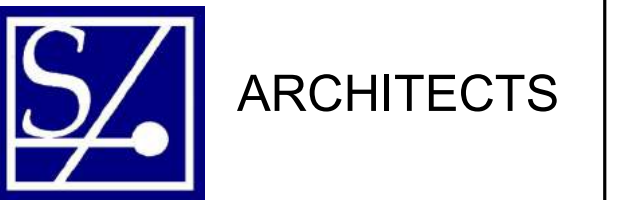
3 EAST ELEVATION
C-A2.1 1/8" = 1'-0"



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



4 WEST ELEVATION
C-A2.1 1/8" = 1'-0"



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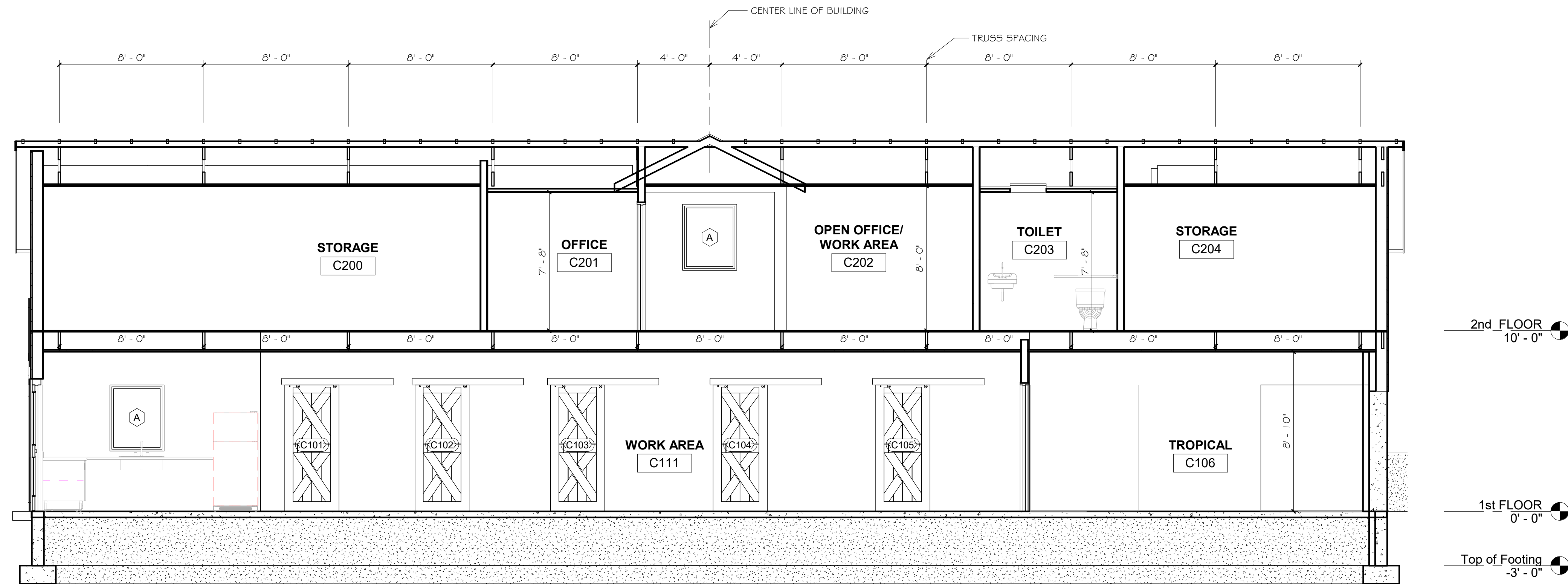
Revision Number	Revision Date

SHEET TITLE EXTERIOR ELEVATIONS

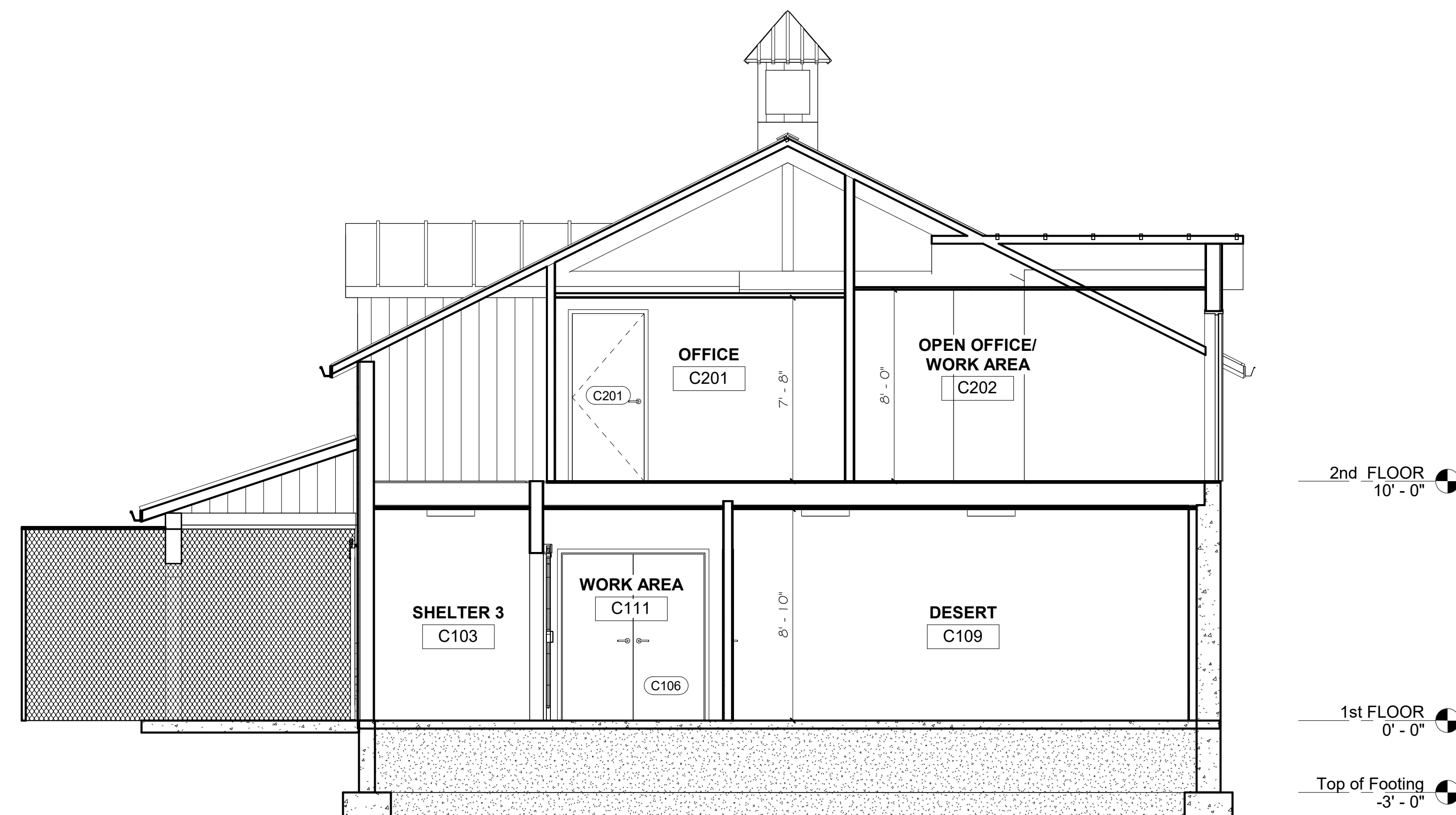
DRAWN BY: KC JOB NUMBER: 18050
CHECKED BY: MS DATE: 02-06-2024

C-A2.1

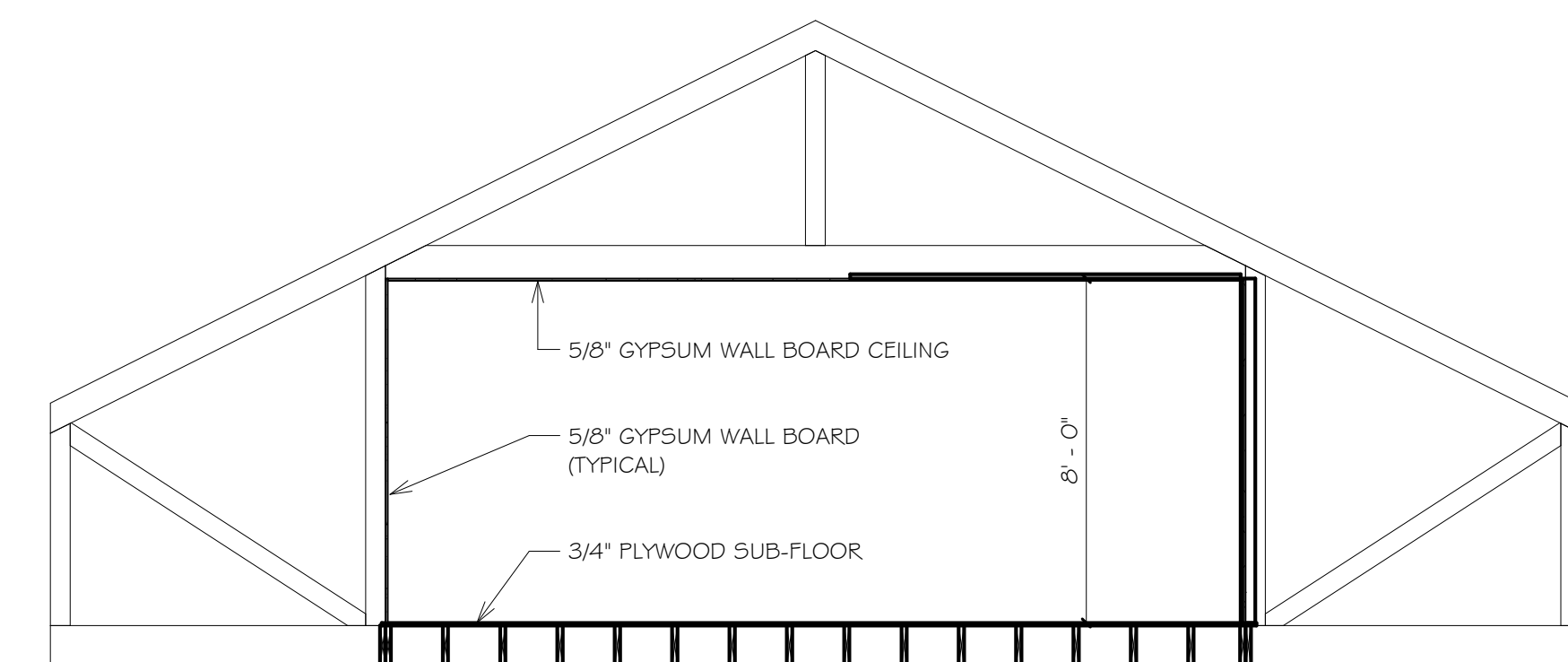
SHEET: OF:



2 BUILDING SECTION
C-A3.1 1/4" = 1'-0"



1 TYPICAL BUILDING SECTION
C-A3.1 1/4" = 1'-0"



3 SECOND FLOOR TRUSS SECTION
C-A3.1 1/4" = 1'-0"



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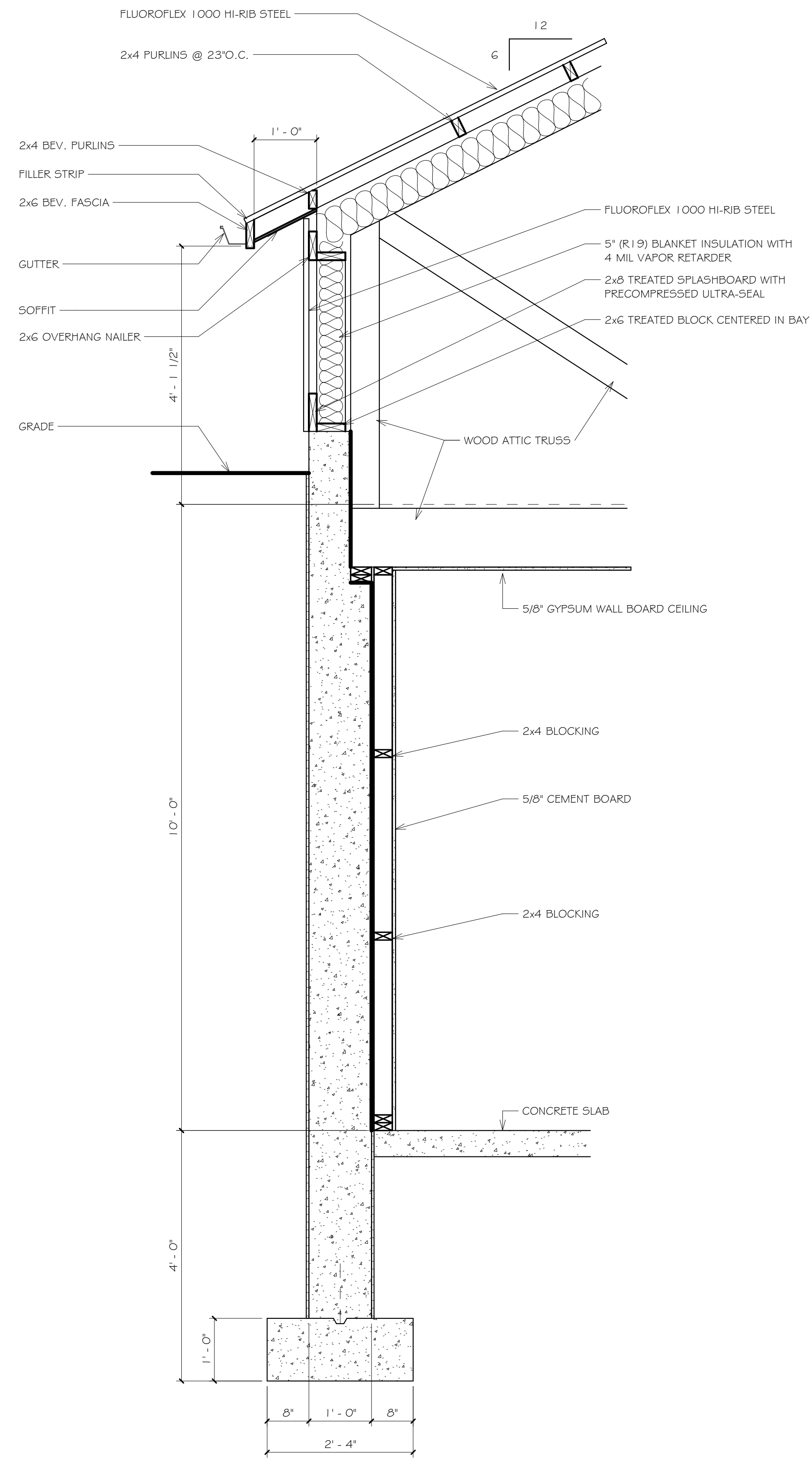
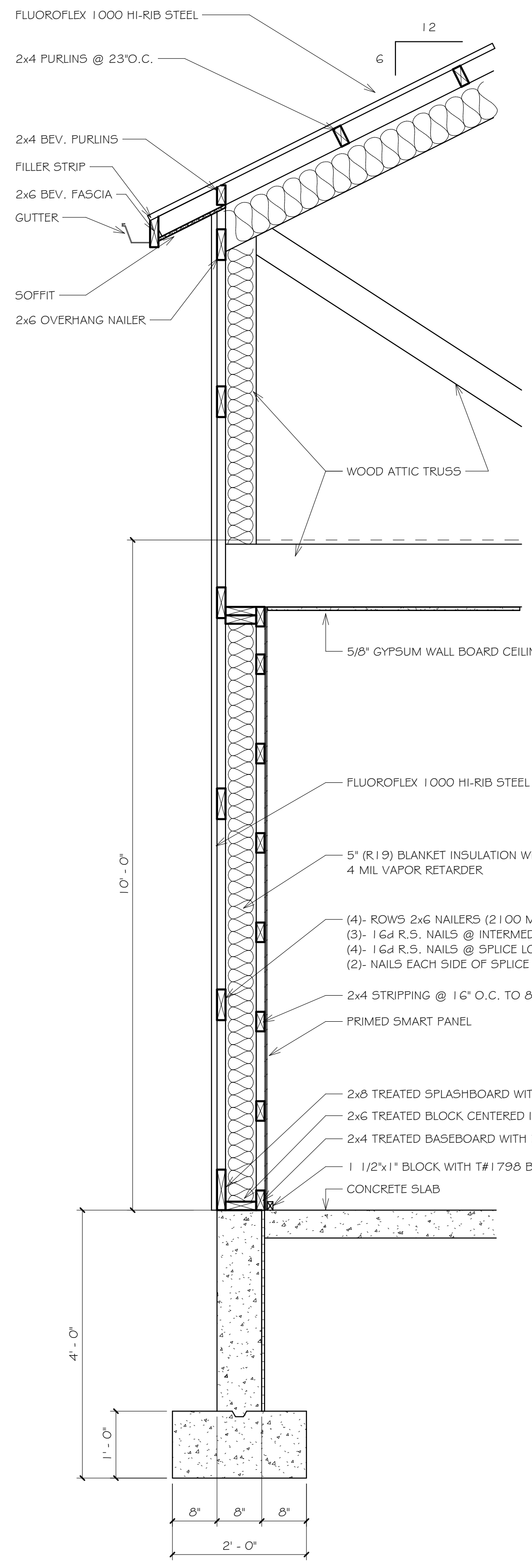
Revision Number	Revision Date

SHEET TITLE
SECTIONS & DETAILS

DRAWN BY: KC JOB NUMBER: 18050
CHECKED BY: MS DATE: 02-06-2024

C-A3.1

SHEET: OF:



1 TYPICAL EXTERIOR WALL DETAIL (LOW)
C-A3.2 3/4" = 1'-0"

2 TYPICAL EXTERIOR WALL DETAIL (RETAINING)
C-A3.2 3/4" = 1'-0"

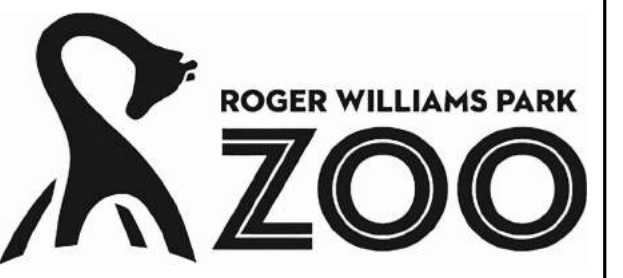


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Revision Schedule	
Revision Number	Revision Date

SHEET TITLE
SECTIONS & DETAILS

DRAWN BY: KC JOB NUMBER: 18050
CHECKED BY: MS DATE: 02-06-2024

C-A3.2

SHEET: OF:

ANIMAL BUILDING

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Revision Schedule

Revision Number	Revision Date

SHEET TITLE

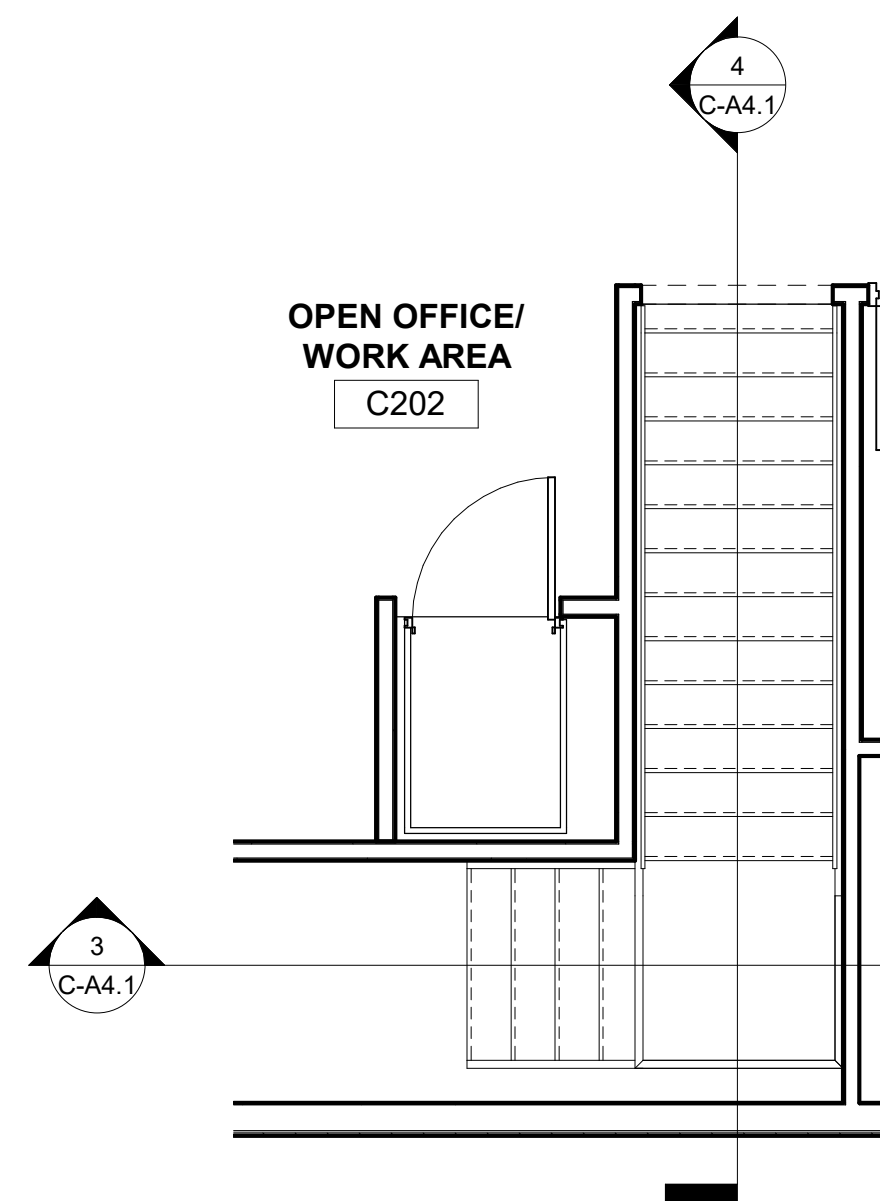
**STAIR PLANS,
 SECTIONS &
 DETAILS**

DRAWN BY: KC JOB NUMBER: 18050

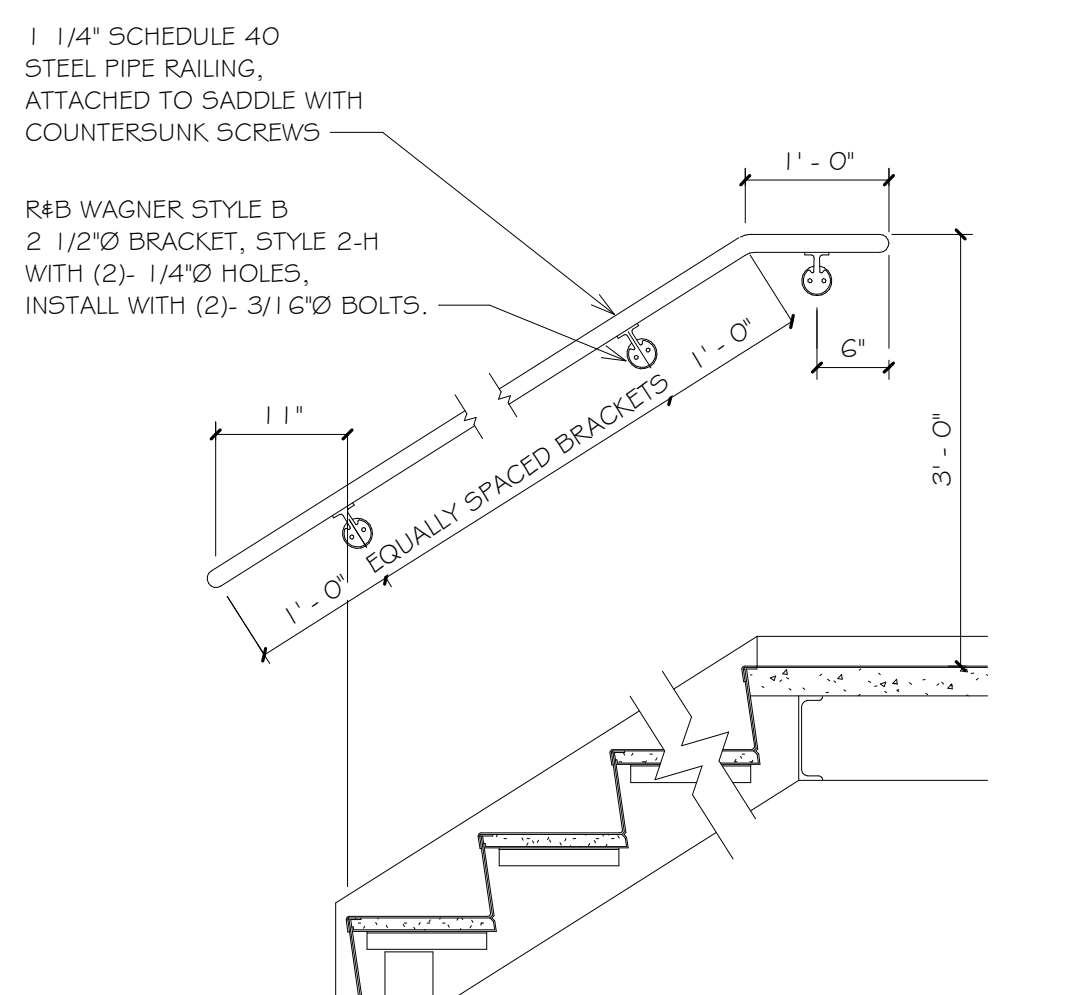
CHECKED BY: MS DATE: 02-06-2024

C-A4.1

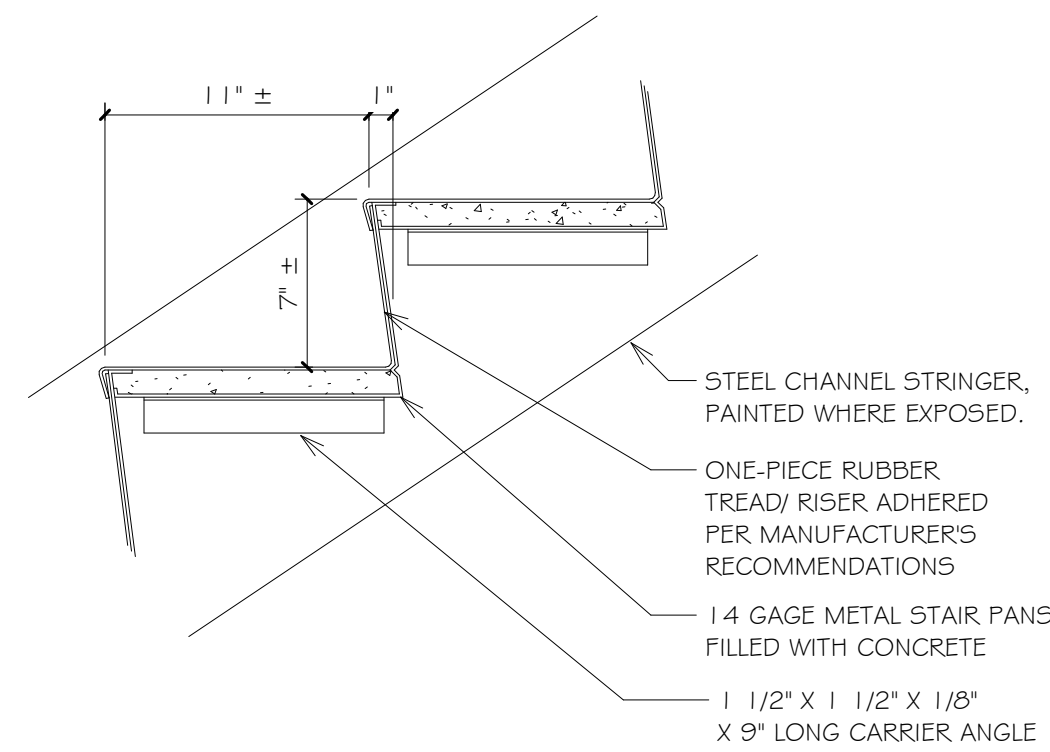
SHEET: OF:



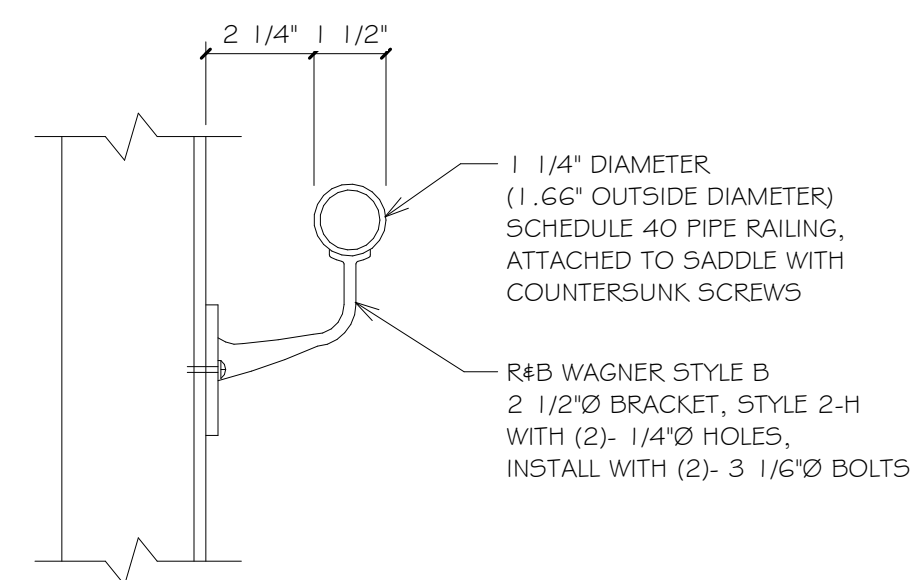
2 2nd FLOOR STAIR PLAN
 C-A4.1 1/4" = 1'-0"



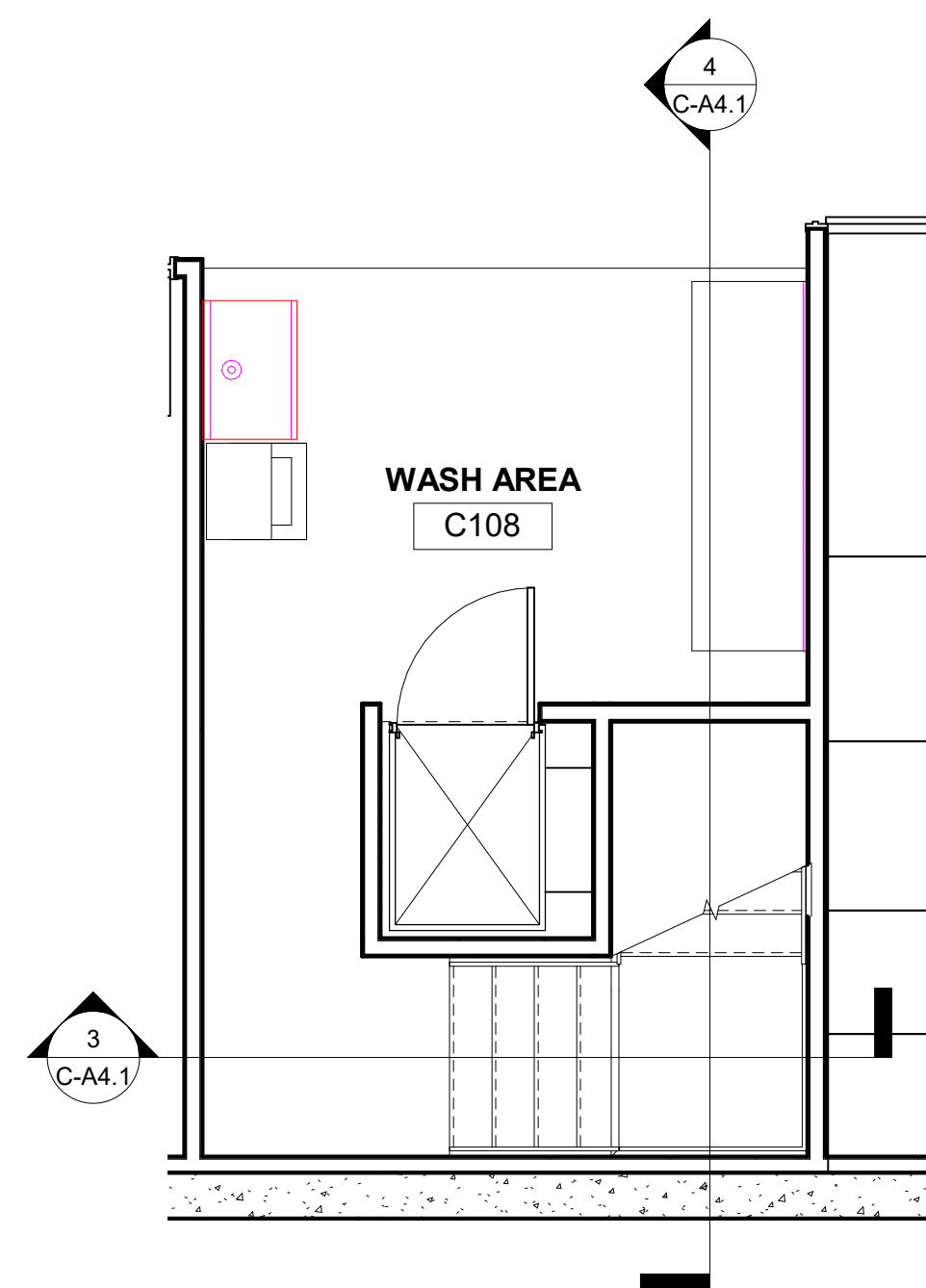
5 STAIR DETAIL
 C-A4.1 3/4" = 1'-0"



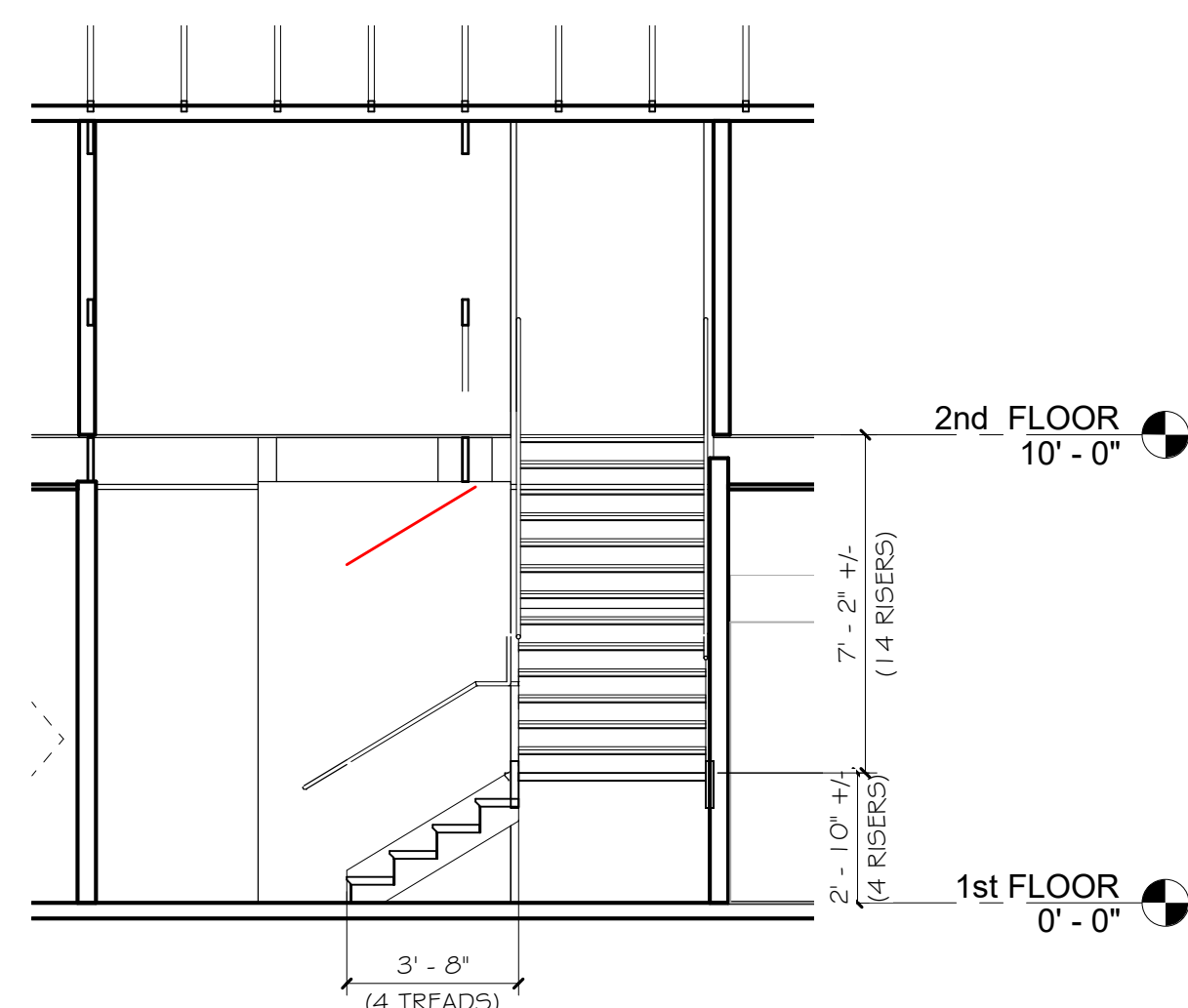
6 RISER/TREAD DETAIL
 C-A4.1 1 1/2" = 1'-0"



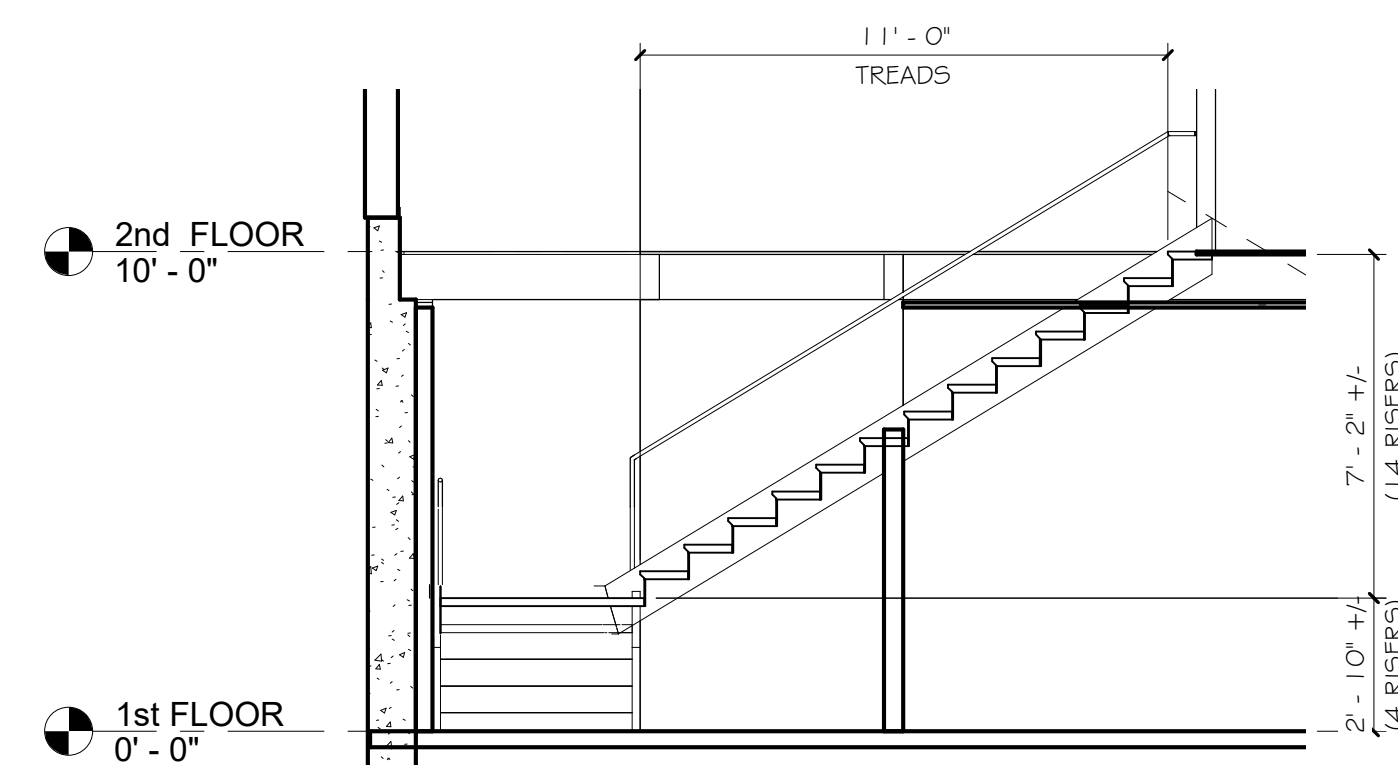
7 RAILING DETAIL
 C-A4.1 3" = 1'-0"



1 1st FLOOR STAIR PLAN
 C-A4.1 1/4" = 1'-0"



3 STAIR SECTION
 C-A4.1 1/4" = 1'-0"



4 STAIR SECTION
 C-A4.1 1/4" = 1'-0"



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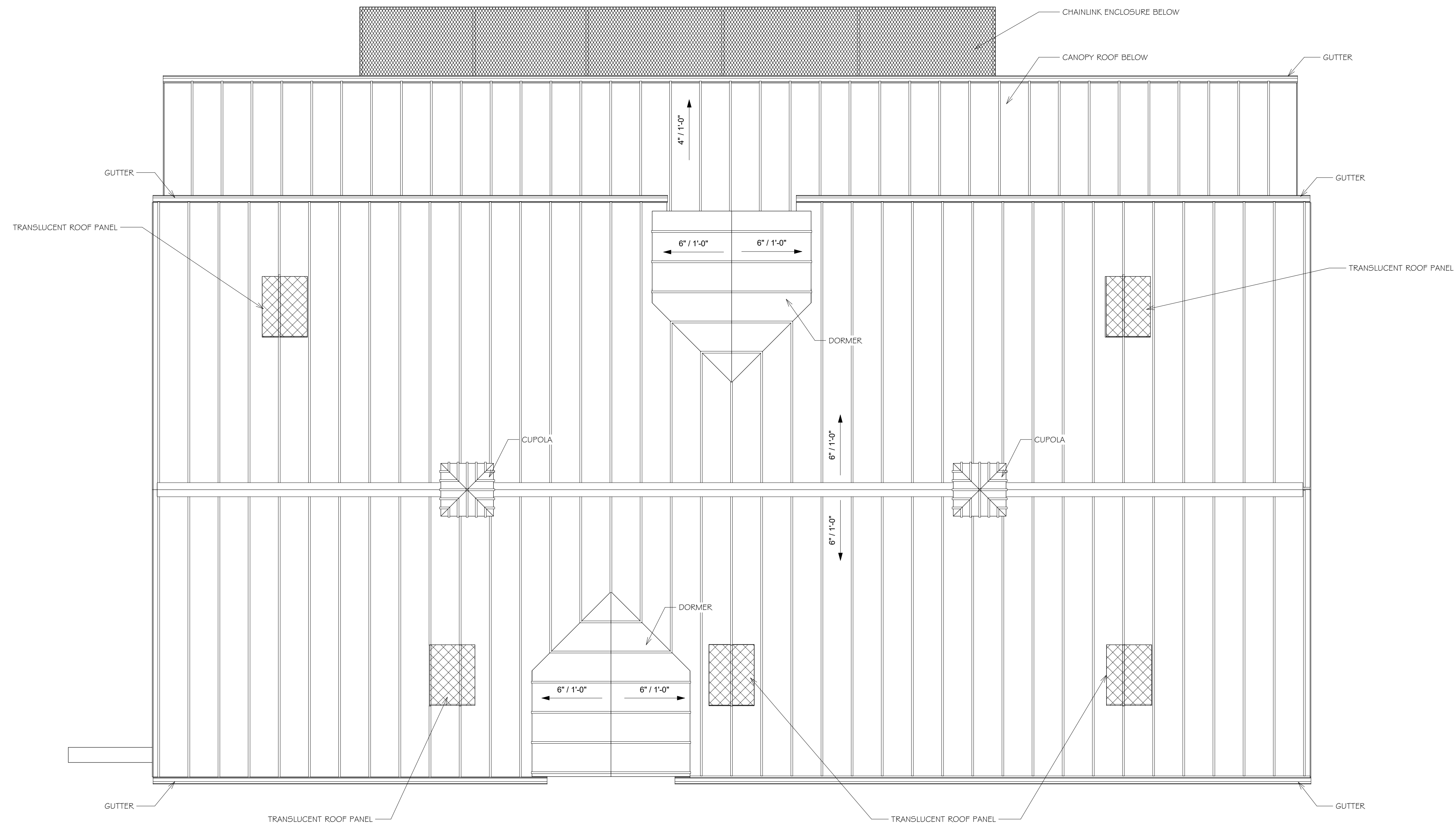
Revision Number	Revision Date

SHEET TITLE
ROOF PLAN & DETAILS

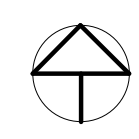
DRAWN BY: KC JOB NUMBER: 18050
 CHECKED BY: MS DATE: 02-06-2024

C-A5.1

SHEET: OF:



ROOF PLAN
 1/4" = 1'-0"





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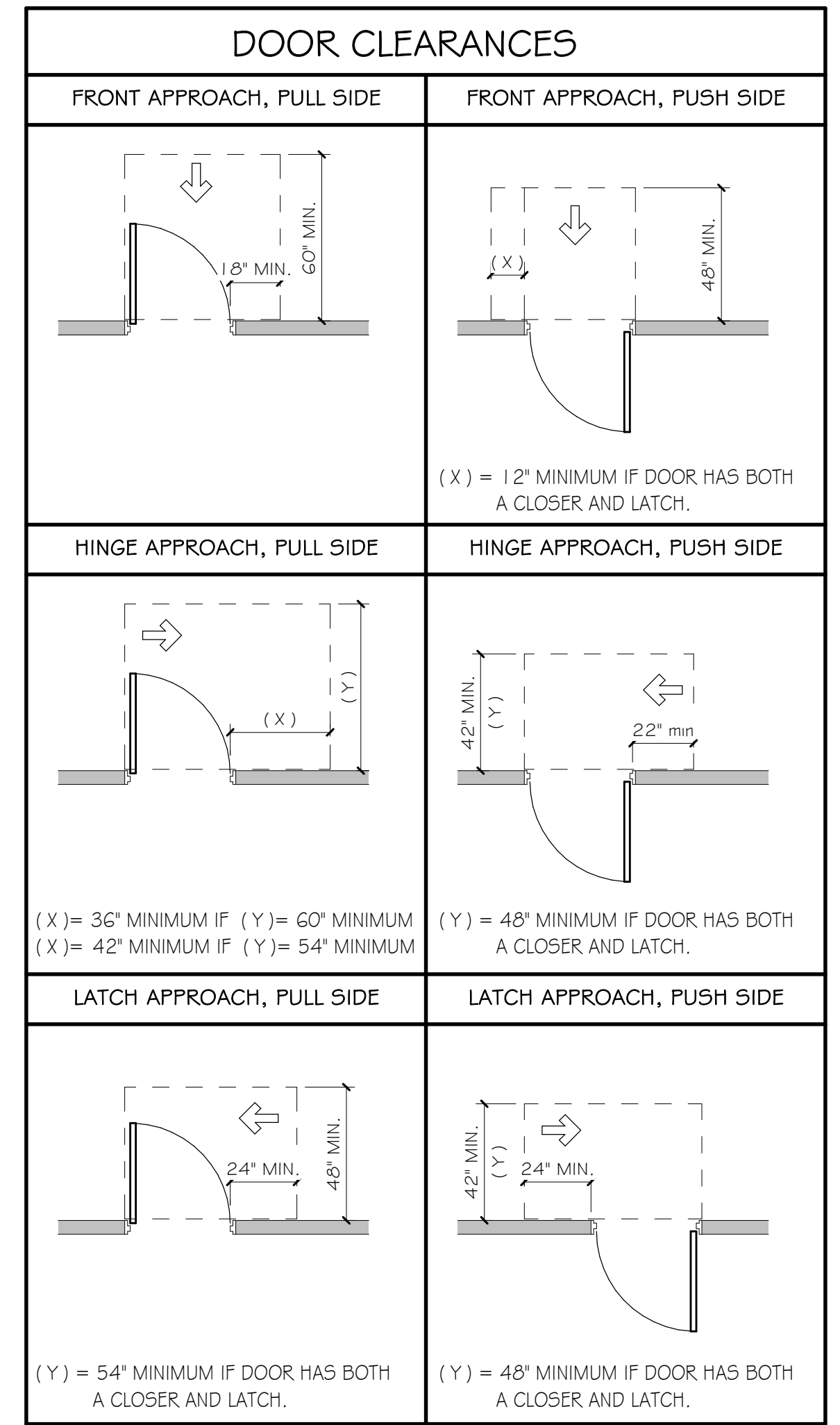
SHEET TITLE
DOOR & WINDOW SCHEDULES

DRAWN BY: KC JOB NUMBER: 18050

CHECKED BY: MS DATE: 02-06-2024

C-A6.1

SHEET: OF:



DOOR SCHEDULE LEGEND

- = NO WORK NEEDED
- ALUM = ALUMINUM
- EXT = EXISTING
- FF = FACTORY FINISH
- FIN = FINISH
- FR5 = FIRE-RATED SAFETY GLASS
- GHM = GALVANIZED HOLLOW METAL
- HM = HOLLOW METAL
- INSUL = INSULATED
- IR = IMPACT RESISTANT
- MAS = MASONRY
- MAT = MATERIAL
- PT = PAINT
- RM = ROOM
- RMK = REMARK
- S4F = STAIN & FINISH
- TEMP = TEMPERED
- VAS = VERIFY AT SITE
- WD = WOOD

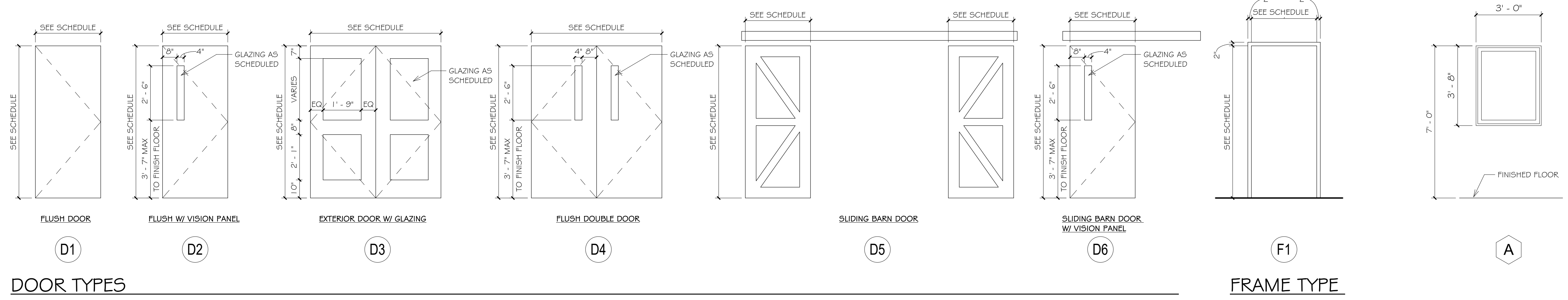
GENERAL WINDOW & DOOR NOTES:

- ALL WINDOW & DOOR FLASHING MATERIALS AND METHODS SHALL CONFORM TO THE REQUIREMENTS OF THE ENERGY & ENVIRONMENTAL BUILDING ASSOCIATION'S GUIDELINES FOR WATER MANAGEMENT AROUND OPENINGS AS WELL AS SPECIFICATIONS.
- SPACES BETWEEN WINDOW/DOOR FRAMES AND ROUGH OPENINGS ARE TO BE FILLED WITH LOW EXPANSION FOAM UNLESS WINDOW/DOOR MANUFACTURER REQUIREMENT STATES OTHERWISE.
- PROVIDE BLOCKING (FIRE-TREATED WHERE REQUIRED) AS REQUIRED FOR THE INSTALLATION OF ALL WINDOW TRIM/CASINGS, SILLS, ETC. AT ALL WINDOWS AND DOORS.

DOOR SCHEDULE NOTES

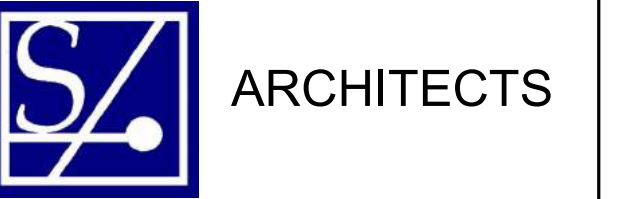
- ALL DOOR FRAME ASSEMBLIES ARE TO BE MINIMUM LABEL NOTED FOR ITS DOOR.
- ALL DOOR GLAZING IS TO BE MINIMUM LABEL NOTED FOR ITS DOOR.
- ALL WD DOORS ARE SOLID CORE WOOD DOORS AND ARE TO RECEIVE CLEAR FINISHES.
- ALL HM DOORS AND FRAMES ARE TO BE PAINTED.
- FIRE RATINGS AND EXIT DEVICES SHALL BE PROVIDED PER THE APPLICABLE CODE.

NUMBER	TO ROOM	DOOR							FRAME		DETAILS			COMMENTS	
		WIDTH	HEIGHT	THICKNESS	ELEV	MATERIAL	FINISH	GLAZING	ELEV	MATERIAL	FINISH	FIRE RATING	HEAD		JAMB
C100	WORK AREA	6'-0"	7'-0"	0'-1 3/4"	D3	ALUM	FF	INSUL / TEMP	I	ALUM	FF	-	-	-	I
C101	SHELTER 1	3'-0"	7'-0"	0'-1 3/4"	D6	METAL / INSUL	PT	INSUL / TEMP	-	-	-	-	-	-	-
C101a	SHELTER 1	3'-4"	8'-0"	0'-1 3/4"	D5	WD	PT	-	-	-	-	-	-	-	-
C101b	SHELTER 1	3'-0"	7'-0"	0'-1 3/4"	D6	HM	PT	-	-	-	-	-	-	-	-
C102	SHELTER 2	3'-0"	7'-0"	0'-1 3/4"	D6	METAL / INSUL	PT	INSUL / TEMP	-	-	-	-	-	-	-
C102a	SHELTER 2	3'-4"	8'-0"	0'-1 3/4"	D5	WD	PT	-	-	-	-	-	-	-	-
C103	SHELTER 3	3'-0"	7'-0"	0'-1 3/4"	D6	METAL / INSUL	PT	INSUL / TEMP	-	-	-	-	-	-	-
C103a	SHELTER 3	3'-4"	8'-0"	0'-1 3/4"	D5	WD	PT	-	-	-	-	-	-	-	-
C104	SHELTER 4	3'-0"	7'-0"	0'-1 3/4"	D6	METAL / INSUL	PT	INSUL / TEMP	-	-	-	-	-	-	-
C104a	SHELTER 4	3'-4"	8'-0"	0'-1 3/4"	D5	WD	PT	-	-	-	-	-	-	-	-
C104b	SHELTER 5	3'-0"	7'-0"	0'-1 3/4"	D5	HM	PT	-	-	-	-	-	-	-	-
C105	SHELTER 5	3'-0"	7'-0"	0'-1 3/4"	D6	METAL / INSUL	PT	INSUL / TEMP	-	-	PAINT	-	-	-	-
C105a	SHELTER 5	3'-4"	8'-0"	0'-1 3/4"	D5	WD	PT	-	-	-	-	-	-	-	-
C106	TROPICAL	6'-0"	7'-0"	0'-1 3/4"	D4	HM	PT	TEMP	I	HM	PT	-	-	-	23
C109	DESERT	3'-0"	7'-0"	0'-1 3/4"	D2	HM	PT	TEMP	I	HM	PT	-	-	-	10
C110	WORK AREA	6'-0"	7'-0"	0'-1 3/4"	D4	HM	PT	TEMP	I	HM	PT	-	-	-	23
C112	MECHANICAL	3'-0"	7'-0"	0'-1 3/4"	D1	HM	PT	-	I	HM	PT	45 MIN	-	-	12
C113	ELECTRICAL	3'-0"	7'-0"	0'-1 3/4"	D1	HM	PT	-	I	HM	PT	45 MIN	-	-	12
C200	STORAGE	6'-0"	7'-0"	0'-1 3/4"	D4	HM	PT	TEMP	I	HM	PT	-	-	-	14
C201	OFFICE	3'-0"	7'-0"	0'-1 3/4"	D2	HM	PT	TEMP	I	HM	PT	-	-	-	10
C202	OPEN OFFICE/ WORK AREA	6'-0"	7'-0"	0'-1 3/4"	D4	GHM	PT	INSUL / TEMP	I	GHM	PT	-	-	-	4
C203	TOILET	3'-0"	7'-0"	0'-1 3/4"	D1	HM	PT	-	I	HM	PT	-	-	-	15
C204	STORAGE	3'-0"	7'-0"	0'-1 3/4"	D2	HM	PT	TEMP	I	HM	PT	-	-	-	12



1 DOOR AND FRAME ELEVATIONS
 3/8" = 1'-0"

2 WINDOW TYPE
 3/8" = 1'-0"

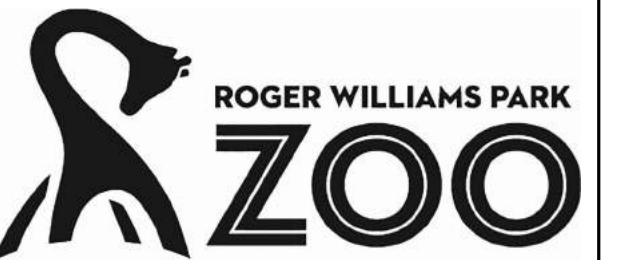


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Revision Schedule

Revision Number	Revision Date

SHEET TITLE

FINISH SCHEDULE

DRAWN BY: KC JOB NUMBER: 18050

CHECKED BY: MS DATE: 02-06-2024

C-A6.2

SHEET: OF:

ROOM FINISH SCHEDULE											
ROOM #	ROOM NAME	WALLS				FLOOR	BASE		CEILING	COMMENTS	
		NORTH	SOUTH	EAST	WEST		MATERIAL	HEIGHT			
C100	KITCHEN	DWP	DWP	DWP	DWP	SC5	-	GWB			
C101	SHELTER 1	DWP	DWP	DWP	DWP	SC5	-	DWP			
C102	SHELTER 2	DWP	DWP	DWP	DWP	SC5	-	DWP			
C103	SHELTER 3	DWP	DWP	DWP	DWP	SC5	-	DWP			
C104	SHELTER 4	DWP	DWP	DWP	DWP	SC5	-	DWP			
C105	SHELTER 5	DWP	DWP	DWP	DWP	SC5	-	DWP			
C106	TROPICAL	DWP	DWP	DWP	DWP	SC5	-	GWB			
C108	WASH AREA	DWP	DWP	DWP	DWP	SC5	-	GWB			
C109	DESERT	DWP	DWP	DWP	DWP	SC5	-	GWB			
C110	TEMPERATE	DWP	DWP	DWP	DWP	SC5	-	GWB			
C111	WORK AREA	DWP	DWP	DWP	DWP	SC9	-	GWB			
C112	MECHANICAL	PT4	PT4	PT4	PT4	UNFINISHED CONCRETE	-	GWB			
C113	ELECTRICAL	PT4	PT4	PT4	PT4	UNFINISHED CONCRETE	-	GWB			
C200	STORAGE	PT4	PT4	PT4	PT4	RUB I	B I 4"	GWB			
C201	OFFICE	PT4	PT4	PT4	PT4	RUB I	B I 4"	ACT I			
C202	OPEN OFFICE/ WORK AREA	PT4	PT4	PT4	PT4	RUB I	B I 4"	GWB	RUB I / B I @ STAIRS		
C203	TOILET	PT4	PT4	PT4	PT4	RUB I	B I 4"	ACT I			
C204	STORAGE	PT4	PT4	PT4	PT4	RUB I	B I 4"	GWB			

FINISH SCHEDULE NOTES

- ANY ROOM(S) FOUND ON OTHER PLANS AND NOT INDICATED ON FINISH SCHEDULE SHALL RECEIVE MINIMALLY VCT, VCB, ACT AND PT. NOTIFY ARCHITECT OF MISSING ROOM PRIOR TO COMMENCING ANY WORK IN THESE AREAS.
- 5/8" GWB TO BE REPLACED w/ 5/8" CEMENTITIOUS TILE BACKER BOARD WHEREVER ANY PORTION OF A WALL OR CEILING IS SCHEDULED TO RECEIVE CT OR DWP.
- ALL INTERIOR ARCHITECTURAL WOODWORK SHALL RECEIVE FINISH TO MATCH DOOR FINISH WITHIN THE SAME ROOM UNLESS OTHERWISE SPECIFIED.
- UNLESS NOTED OTHERWISE, ALL CEILINGS NOTED AS O.T.S SHALL BE PAINTED. SEE OTHER DRAWINGS FOR CEILING/FLOOR CONSTRUCTION TYPES AND MATERIALS.

ARCHITECTURAL ABBREVIATION LEGEND

- = NO WORK NEEDED	GALV = GALVANIZED	RO = ROUGH OPENING
ACT = ACOUSTICAL CEILING TILE	GB = GRAB BAR	SF = SQUARE FOOT/FEET
ACTT = ACOUSTICAL CEILING TILE-TEGULAR	GC = GENERAL CONTRACTOR	S4F = STAIN & FINISH
AFF = ABOVE FINISH FLOOR	GLU.LAM = GLUE LAMINATED	SDT = STATIC DISSIPATING TILE
ALUM = ALUMINUM	GWB = GYPSUM WALL BOARD	SEAL = SEALED CONCRETE
CBB = CEMENTITIOUS BACKER BOARD	GHM = GALVANIZED HOLLOW METAL	SGB = SUSPENDED GYPSUM BOARD
CJ = CONTROL JOINT	HB = HOSE BIBB	SIM = SIMILAR
CLR = CLEAR	HM = HOLLOW METAL	SIP = STRUCTURAL INSULATED PANEL
CMU = CONCRETE MASONRY UNIT(S)	HORIZ = HORIZONTAL	SQ = SQUARE
CO = CLEAN OUT	HR = HOUR	SS = STAINLESS STEEL
CONC = CONCRETE	HVAC = HEATING/VENTILATING/AIR CONDITIONING	STL = STEEL
CONST = CONSTRUCTION	ID = INSIDE DIAMETER	STOR = STORAGE
CORR = CORRIDOR	INSUL = INSULATED	STRUC = STRUCTURAL
CT = CERAMIC TILE	INT = INTERIOR	SV = SHEET VINYL
CPT = CARPET	JAN = JANITOR	SWG = SPECIAL WALL GLAZE
CPTT = CARPET TILE	JT = JOINT	T&G = TONGUE & GROOVE
DEMO = DEMOLISH/DEMOLITION	LAM = LAMINATE	TEMP = TEMPERED
DIA = DIAMETER	LAV = LAVATORY	TOS = TOP OF STEEL
DM = DIMENSION	LWT = LIGHTWEIGHT	TV = TELEVISION
DN = DOWN	MAS = MASONRY	TOW = TOP OF WALL
DWG = DRAWING	MAT = MATERIAL	TYP = TYPICAL
DWP = DURABLE WALL PROTECTION	MAX = MAXIMUM	UON = UNLESS OTHERWISE NOTED
ECT = ENTRANCE CARPET TILE	MECH = MECHANICAL	VAS = VERIFY AT SITE
EJ = EXPANSION JOINT	MIN = MINIMUM	VB = VINYL BASE
ELEC = ELECTRIC/ELECTRICAL	MISC = MISCELLANEOUS	VCT = VINYL COMPOSITION TILE
EPX = EPOXY	MFR = MANUFACTURER	VERT = VERTICAL
EQ = EQUAL	MO = MASONRY OPENING	VIF = VERIFY IN FIELD
ETR = EXISTING TO REMAIN	MRT = MOISTURE RESISTANT TILE	VT = VINYL TILE
EXT = EXISTING	NIC = NOT IN CONTRACT	VWG = VINYL WALL COVERING
FD = FLOOR DRAIN	NTS = NOT TO SCALE	W = WITH
FE = FIRE EXTINGUISHER	OC = ON CENTER	WC = WATER CLOSET
PEC = FIRE EXTINGUISHER & CABINET	OD = OUTSIDE DIAMETER	WD = WOOD
FF = FINISH FLOOR	OFF = OFFICE	WH = WATER HEATER
FHC = FIRE HOSE CABINET	OPNG = OPENING	WO = WITHOUT
FIN = FINISH	OPP = OPPOSITE	WP = WATERPROOF(ING)
FLR = FLOOR	OTS = OPEN TO STRUCTURE	WR = WATER RESISTANT
FOC = FACE OF CONCRETE	PLAM = PLASTIC LAMINATE	WWM = WELDED WIRE MESH
FOS = FACE OF STUD	PT = PAINT or PRESSURE TREATED	RD = ROOF DRAIN
FR = FIRE RATED	PV = PHOTOVOLTAIC PANELS	REBAR = REINFORCEMENT BAR(S)
FRP = FIBERGLASS REINFORCED PANEL	PVC = POLYVINYL CHLORIDE	REINF = REINFORCEMENT
FRS = FIRE-RATED SAFETY GLASS	QT = QUARRY TILE	RH = ROBE HOOK
FT = FOOT/FEET	R = RISER	RM = ROOM
FTG = FOOTING	RAD = RADIUS	RMK = REMARK
GA = GAUGE	RAF = RESILIENT ATHLETIC FLOORING	

ANIMAL BUILDING

ISSUED FOR BID
April 18, 2024

Revision Schedule

Revision Number	Revision Date

PROGRESS PRINT
NOT FOR CONSTRUCTION

SHEET TITLE
1st FLOOR REFLECTED CEILING PLAN

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DRAWN BY: Author JOB NUMBER: 18050

CHECKED BY: Checker DATE: 02-06-2024

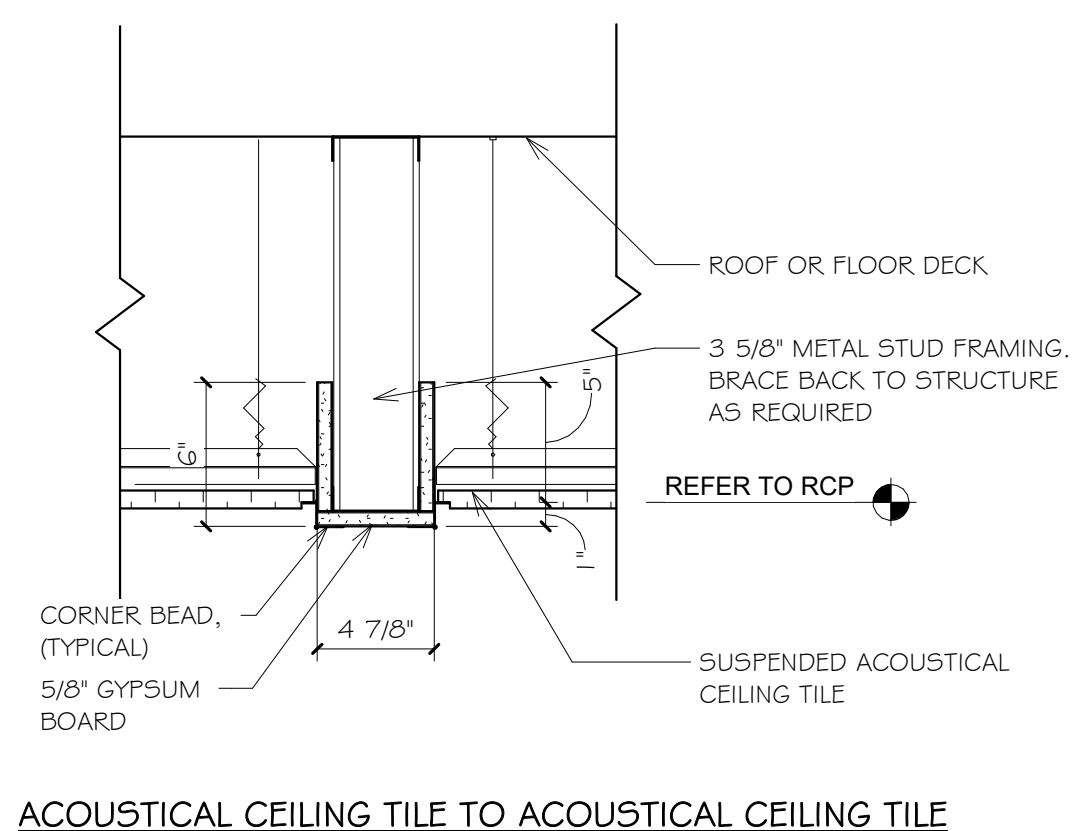
C-A8.1

SHEET: OF:

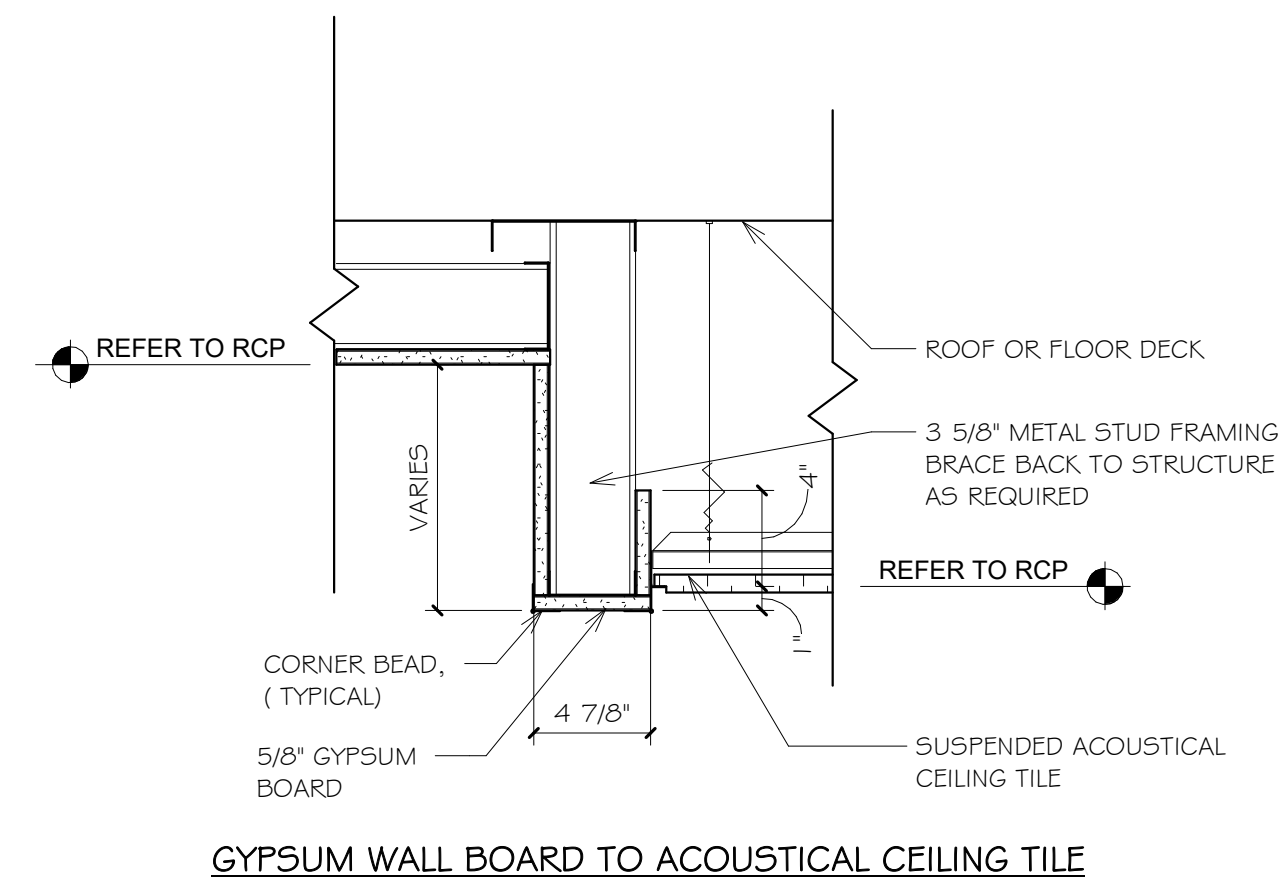
LEGEND

- ACOUSTICAL LAY-IN TILE
- NEW PAINTED 5/8" GWB OR GYPSUM FIBER PANELS. GYPSUM FIBER PANELS ARE TO BE USED IN ALL ROOMS WITH SHOWERS. PROVIDE METAL CEILING OR SOFFIT CONSTRUCTION AS REQUIRED. PROVIDE FIRE-RATED ASSEMBLIES WHERE NOTED
- DWP ON 5/8" CEMENT BOARD
- X-X" CEILING HEIGHT
OTS = OPEN TO STRUCTURE
BOS = BOTTOM OF STRUCTURE

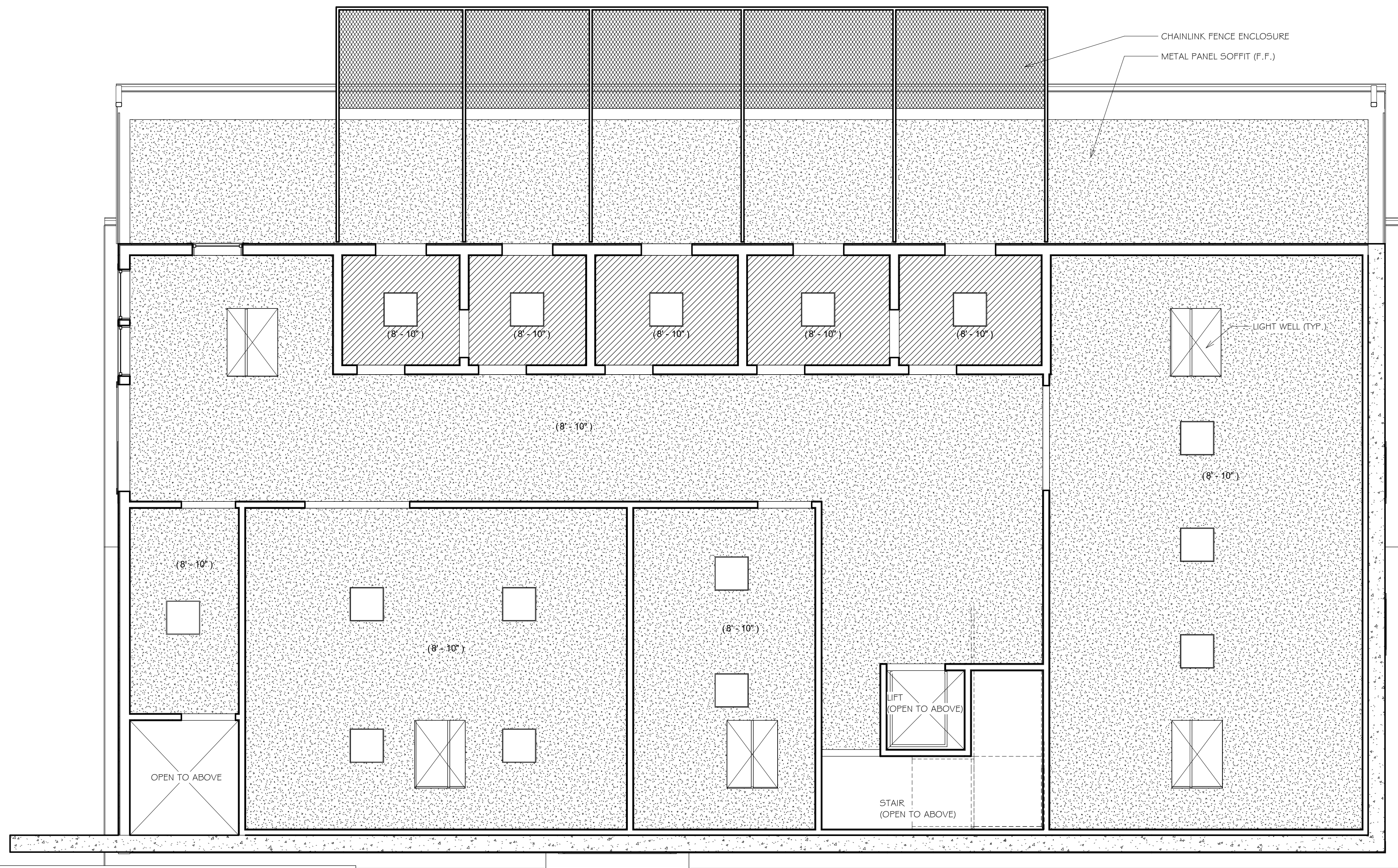
- NOTES**
- SEE MEP DRAWINGS FOR OTHER FIXTURES/DEVICES/EQUIPMENT THAT MAY NOT BE SHOWN ON THESE REFLECTED CEILING PLANS.
 - PROVIDE 3 1/2" SOUND ATTENUATION BATTS IN CEILING WHERE NOTED.
 - PROVIDE BLOCKING (FIRE-TREATED WHERE REQUIRED) FOR ALL CASEWORK, MILLWORK, FIXTURES, EQUIPMENT, AND ALL OTHER INCIDENTAL ITEMS AS REQUIRED FOR THEIR INSTALLATION IN THE CEILINGS.
 - UNLESS NOTED OTHERWISE, ALL CEILINGS NOTED AS O.T.S SHALL BE PAINTED. SEE OTHER DRAWINGS FOR CEILING/FLOOR CONSTRUCTION TYPES AND MATERIALS.



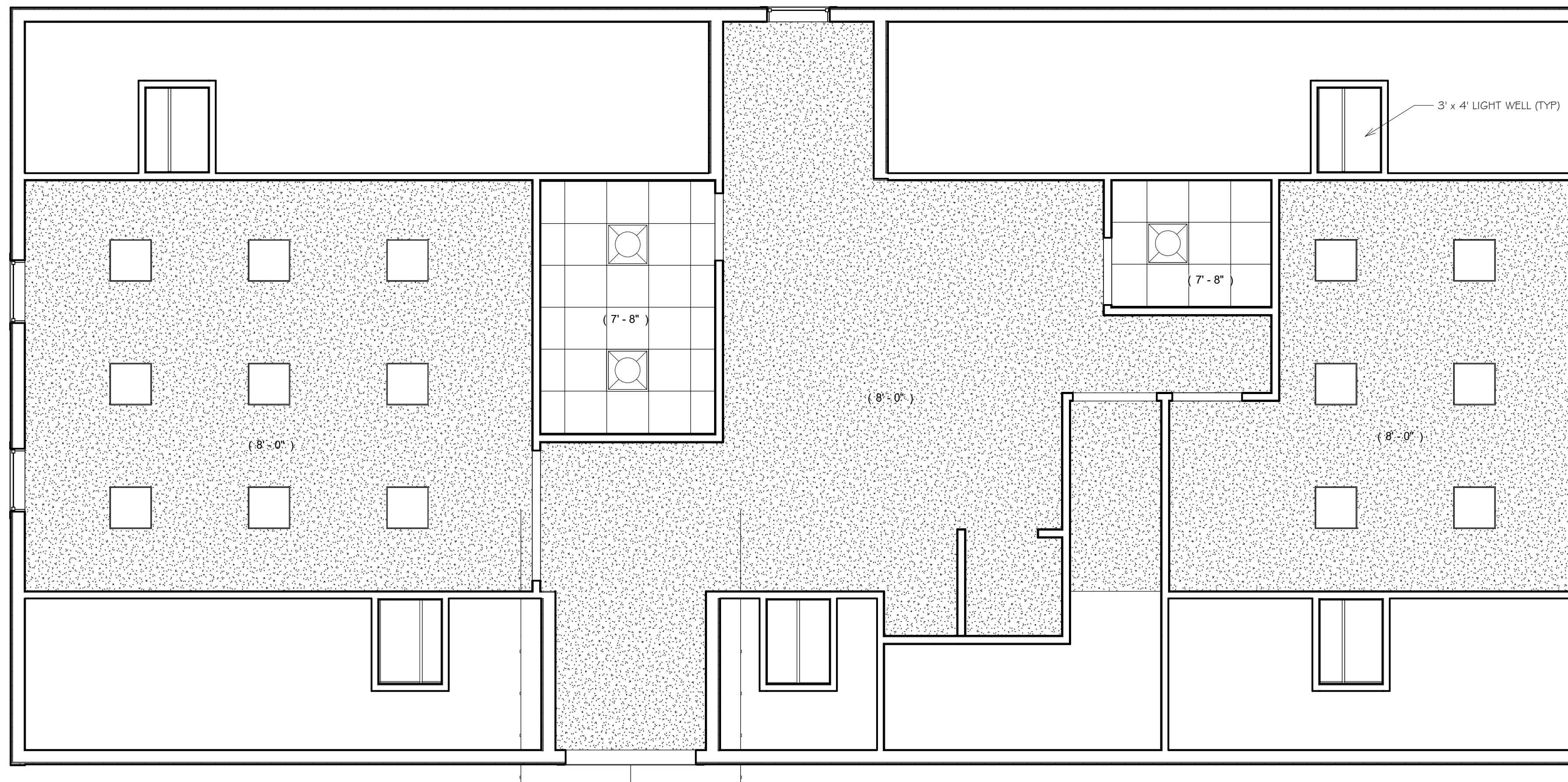
2 CEILING SOFFIT TRANSITION DETAIL
1 1/2" = 1'-0"



3 CEILING SOFFIT TRANSITION DETAIL
1 1/2" = 1'-0"

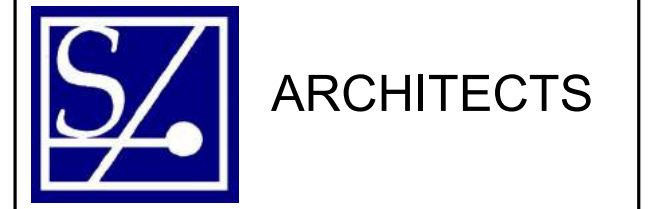


1 1st FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"



LEGEND	
	ACOUSTICAL LAY-IN TILE
	NEW PAINTED 5/8" GWB OR GYPSUM FIBER PANELS, GYPSUM FIBER PANELS ARE TO BE USED IN ALL ROOMS WITH SHOWERS. PROVIDE METAL CEILING OR SOFFIT CONSTRUCTION AS REQUIRED. PROVIDE FIRE-RATED ASSEMBLIES WHERE NOTED
	DWP ON 5/8" CEMENT BOARD
	CEILING HEIGHT OTS = OPEN TO STRUCTURE BOS = BOTTOM OF STRUCTURE

- NOTES**
- SEE MEP DRAWINGS FOR OTHER FIXTURES/DEVICES/EQUIPMENT THAT MAY NOT BE SHOWN ON THESE REFLECTED CEILING PLANS.
 - PROVIDE 3 1/2" SOUND ATTENUATION BATTS IN CEILING WHERE NOTED.
 - PROVIDE BLOCKING (FIRE-TREATED WHERE REQUIRED) FOR ALL CASEWORK, MILLWORK, FIXTURES, EQUIPMENT, AND ALL OTHER INCIDENTAL ITEMS AS REQUIRED FOR THEIR INSTALLATION IN THE CEILINGS.
 - UNLESS NOTED OTHERWISE, ALL CEILINGS NOTED AS O.T.S SHALL BE PAINTED. SEE OTHER DRAWINGS FOR CEILING/FLOOR CONSTRUCTION TYPES AND MATERIALS.



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ANIMAL BUILDING

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 April 18, 2024

Revision Schedule	
Revision Number	Revision Date

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SHEET TITLE
2nd FLOOR REFLECTED CEILING PLAN

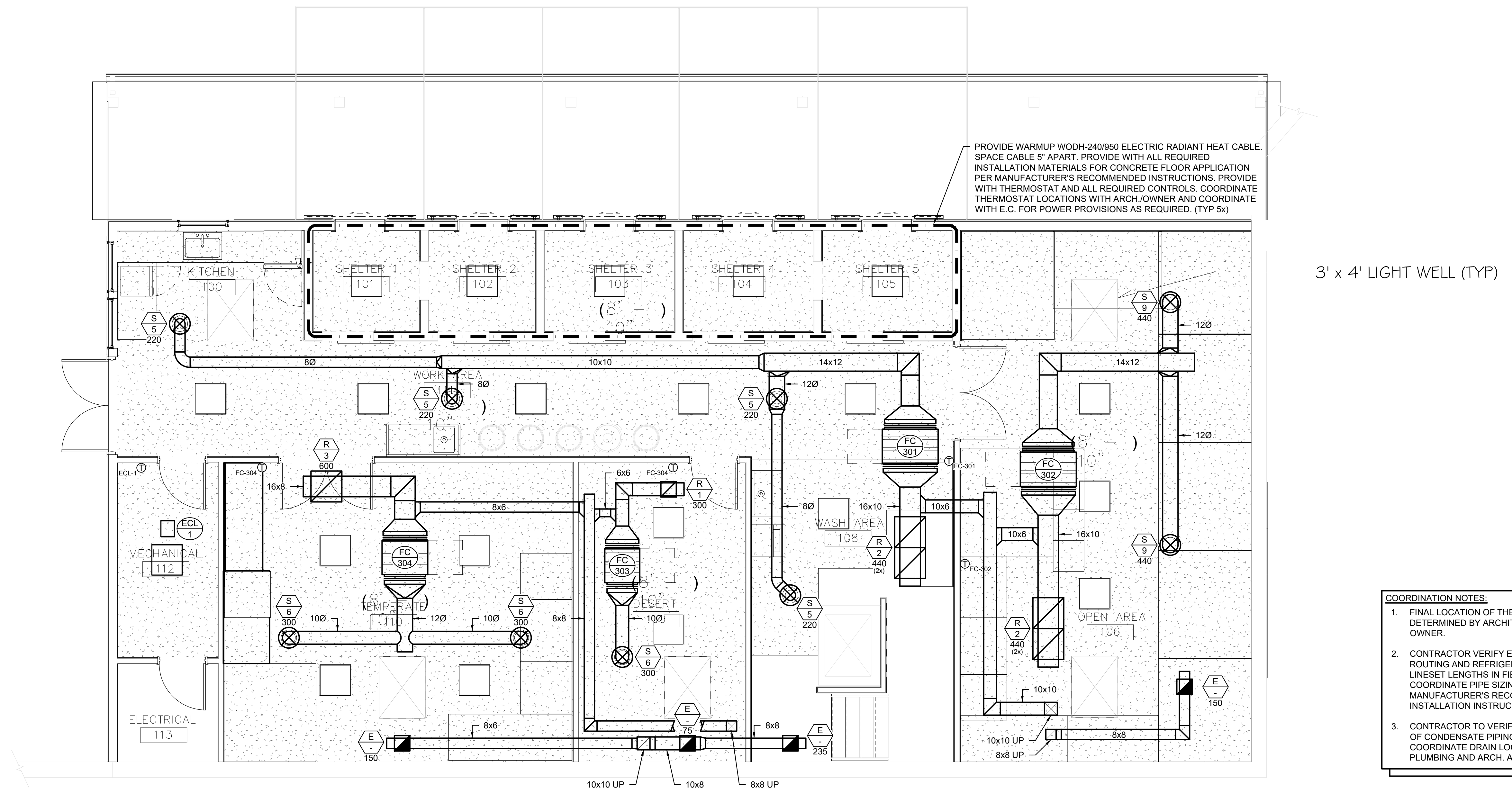
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C-A8.2

SHEET: OF:

2nd FLOOR REFLECTED CEILING PLAN
 1/4" = 1'-0"



- COORDINATION NOTES:**
1. FINAL LOCATION OF THERMOSTATS DETERMINED BY ARCHITECT AND OWNER.
 2. CONTRACTOR VERIFY EXACT ROUTING AND REFRIGERATION LINESET LENGTHS IN FIELD. COORDINATE PIPE SIZING WITH MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
 3. CONTRACTOR TO VERIFY ROUTING OF CONDENSATE PIPING IN FIELD. COORDINATE DRAIN LOCATION WITH PLUMBING AND ARCH. AS REQ'D.



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Revision Number	Revision Date

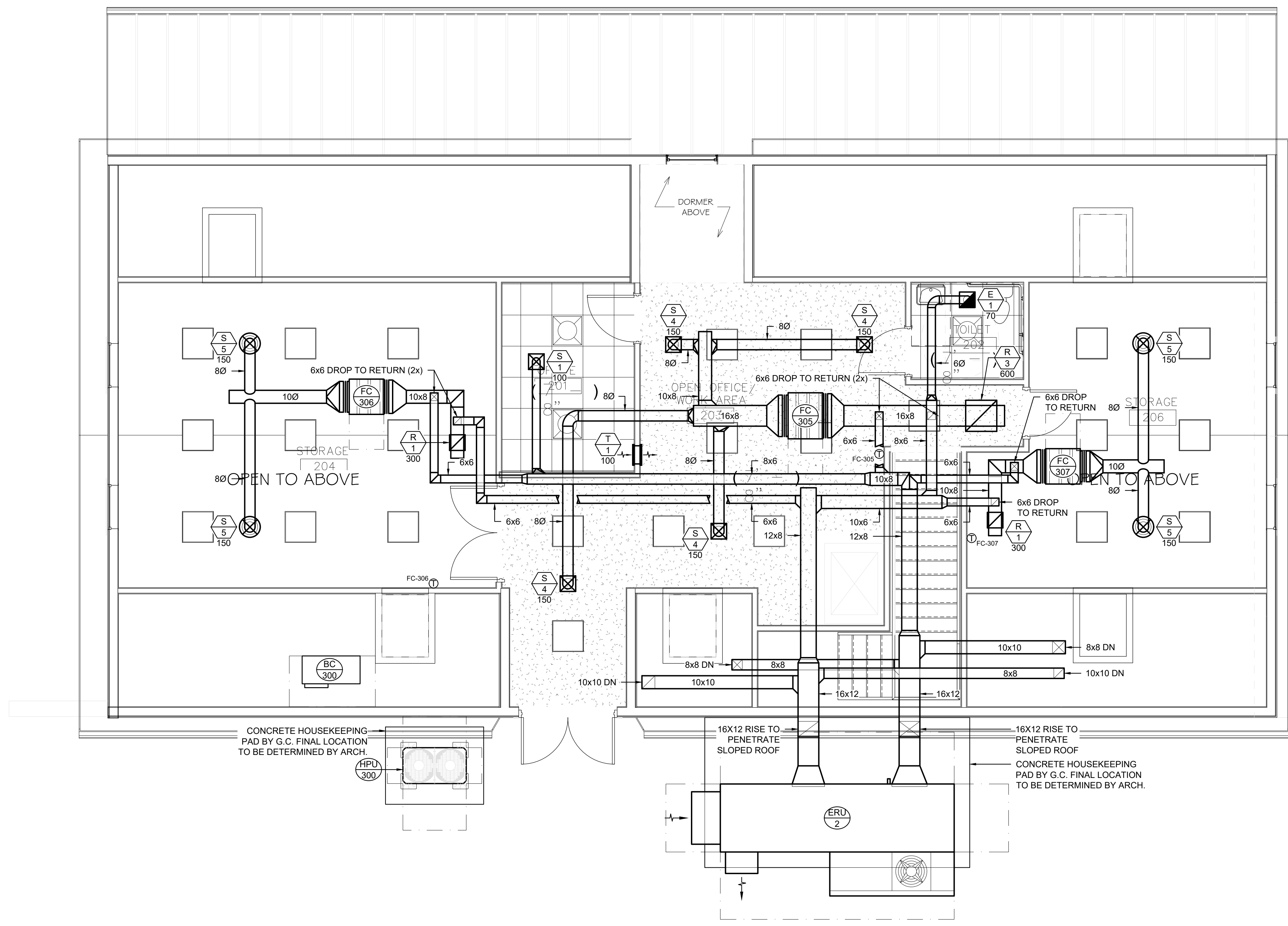
Issued for Bid
 05/01/2024

SHEET TITLE
MECHANICAL
ANIMAL
BUILDING
LOWER LEVEL
PLAN

DRAWN BY: MFM/AJV JOB NUMBER: 18050
 CHECKED BY: WTM DATE: 04/18/2024

C-M1.1

SHEET: OF:



- MINIMUM CLEARANCE NOTES:**
1. ALL MECHANICAL EQUIPMENT INSTALLED ON ROOF MUST MAINTAIN A MINIMUM OF 10'-0" FROM ROOF EDGE.
 2. ALL EXHAUST TERMINATIONS MUST MAINTAIN A MINIMUM OF 10'-0" HORIZONTAL DISTANCE FROM ALL FA INTAKES AND OPENINGS.

- COORDINATION NOTES:**
1. FINAL LOCATION OF THERMOSTATS DETERMINED BY ARCHITECT AND OWNER.
 2. FINAL LOCATION OF ANY OUTDOOR EQUIPMENT TO BE CONFIRMED WITH ARCH. CONTRACTOR TO ACCOUNT FOR ANY CHANGED IN DUCTWORK OR PIPING LENGTH AS REQ'D.
 3. CONTRACTOR VERIFY EXACT ROUTING AND REFRIGERATION LINESET LENGTHS IN FIELD. COORDINATE PIPE SIZING WITH MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
 4. CONTRACTOR TO VERIFY ROUTING OF CONDENSATE PIPING IN FIELD. COORDINATE DRAIN LOCATION WITH PLUMBING AND ARCH. AS REQ'D.



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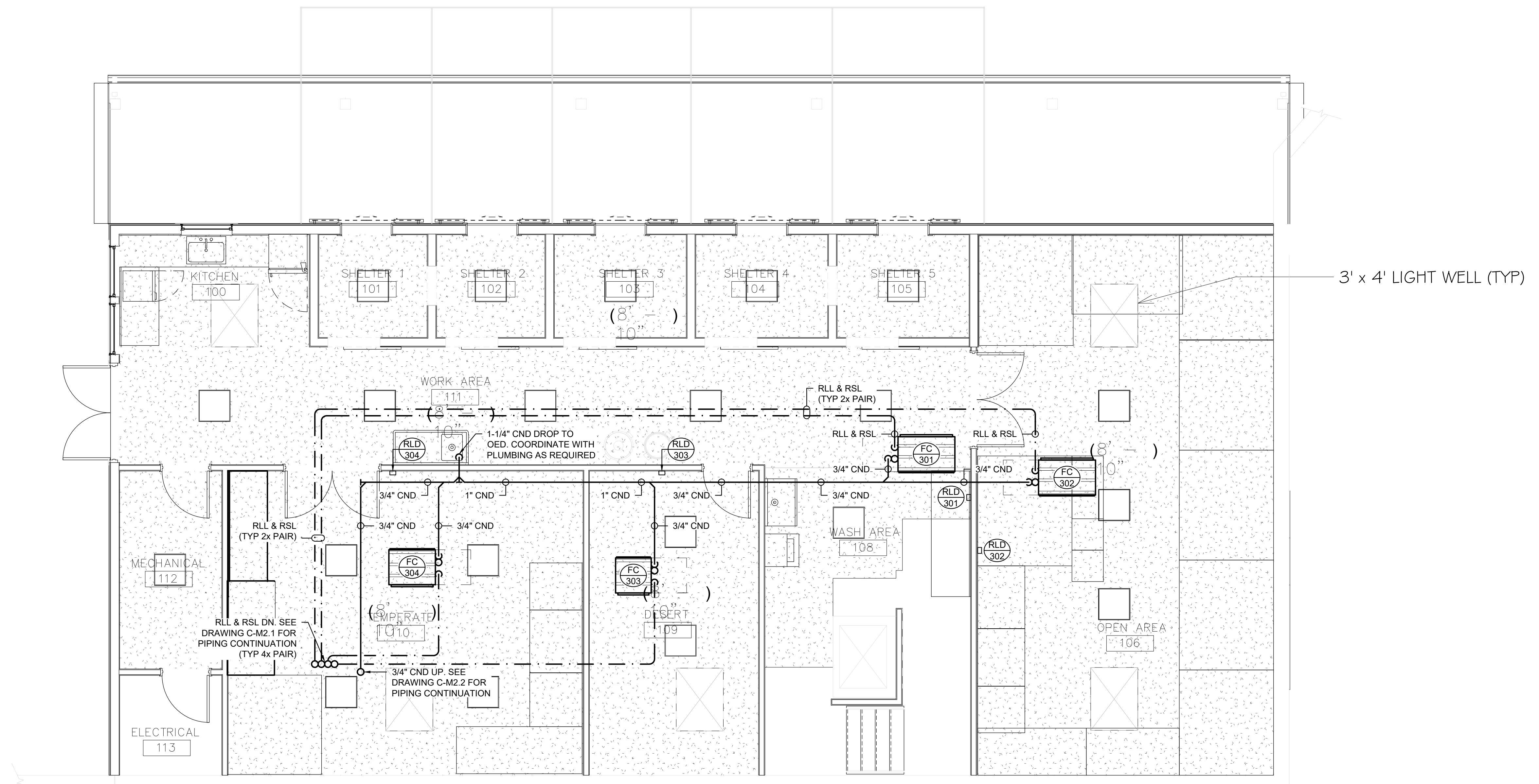
SHEET TITLE
MECHANICAL
ANIMAL
BUILDING UPPER
LEVEL PLAN

DRAWN BY: MFM/AJV JOB NUMBER: 18050
 CHECKED BY: WTM DATE: 04/18/2024

C-M1.2

SHEET: OF:

1 ANIMAL BUILDING - UPPER LEVEL PLAN
 1/4" = 1'-0"

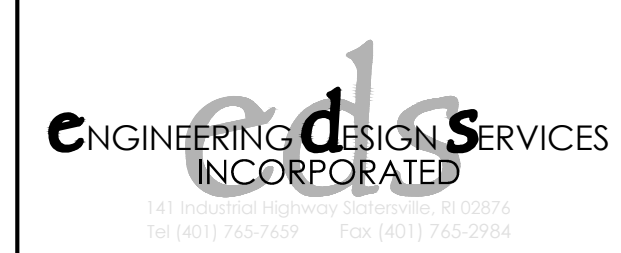


3' x 4' LIGHT WELL (TYP)



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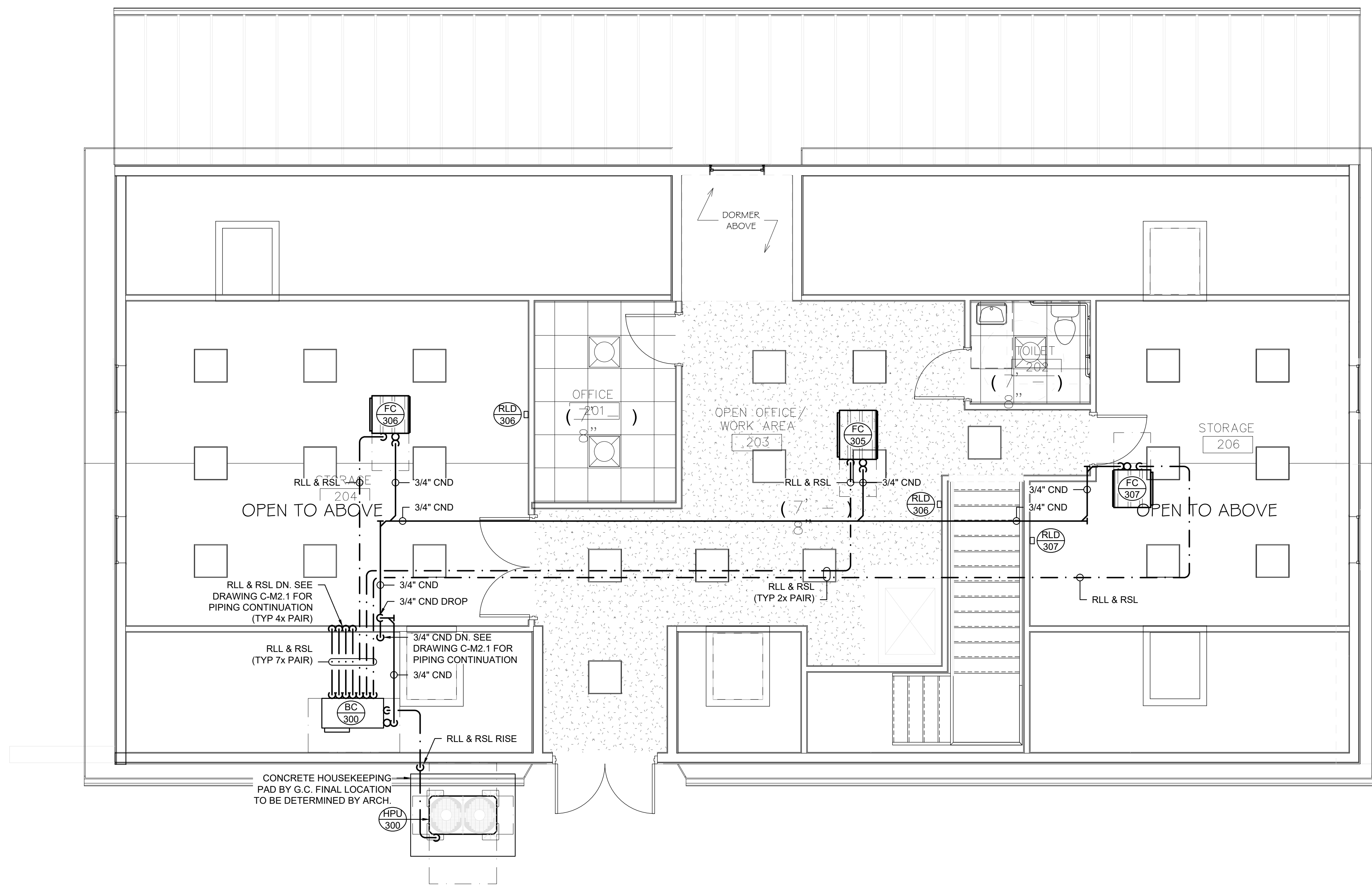
SHEET TITLE
**MECHANICAL
 ANIMAL
 BUILDING
 LOWER LEVEL
 PIPING PLAN**

DRAWN BY: MFM/AJV JOB NUMBER: 18050
 CHECKED BY: WTM DATE: 04/18/2024

C-M2.1

SHEET: OF:

1 ANIMAL BUILDING - LOWER LEVEL PIPING PLAN
 C-M2.1 1/4" = 1'-0"



1 ANIMAL BUILDING - UPPER LEVEL PIPING PLAN
 C-M2.2 1/4" = 1'-0"



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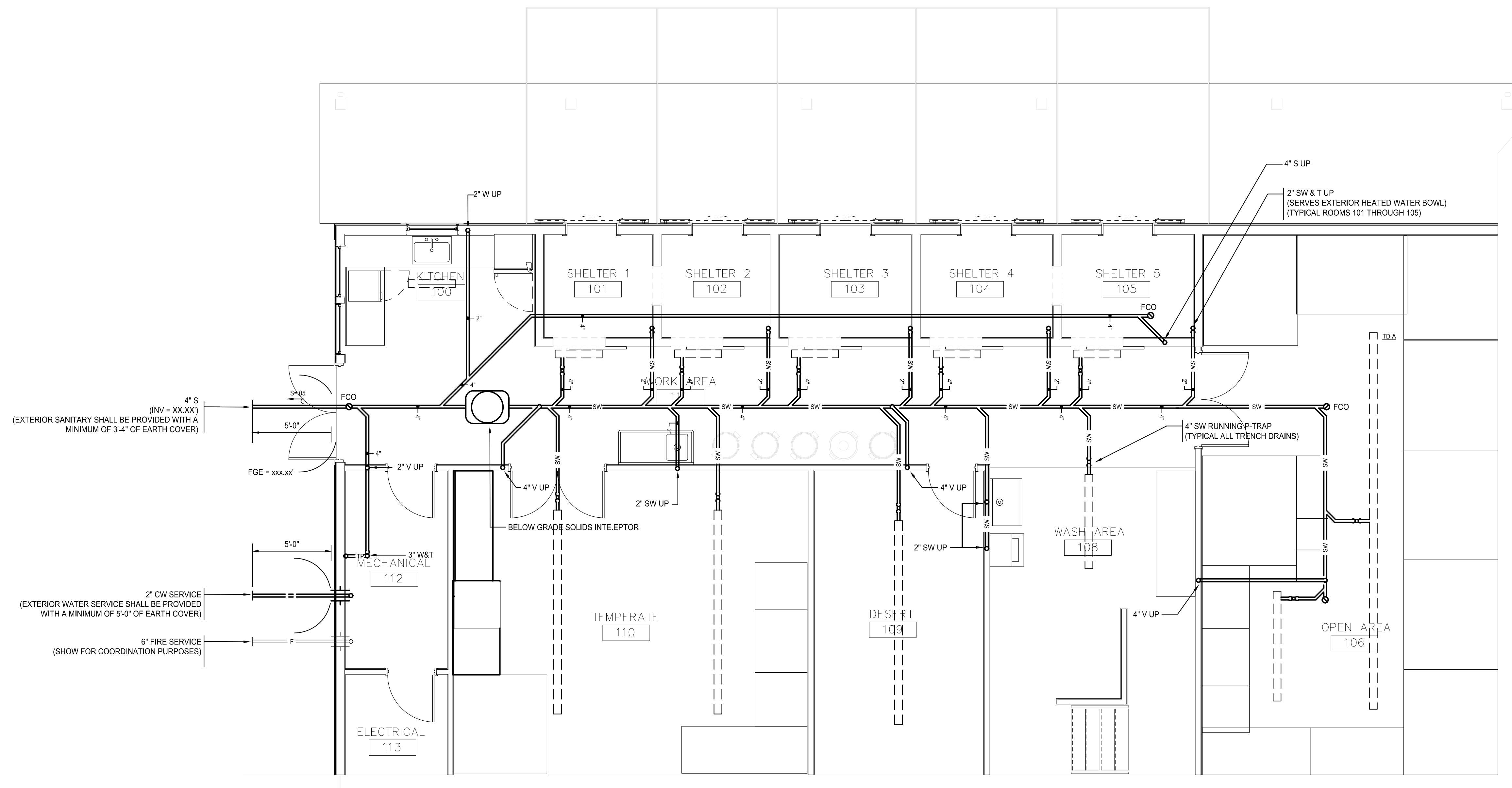
Issued for Bid
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SHEET TITLE
**MECHANICAL
 ANIMAL
 BUILDING UPPER
 LEVEL PIPING
 PLAN**

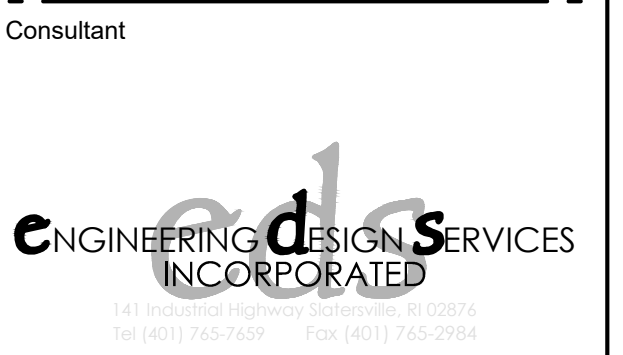
DRAWN BY: MFM/AJV JOB NUMBER: 18050
 CHECKED BY: WTM DATE: 04/18/2024

C-M2.2

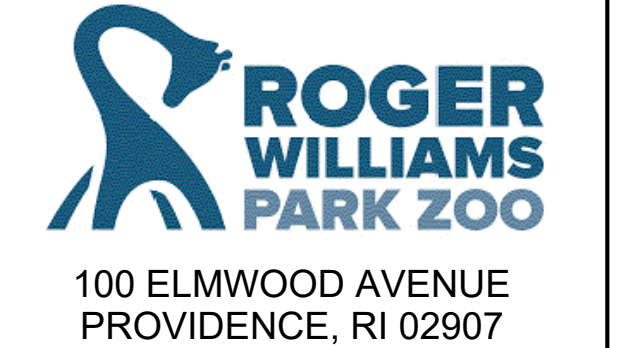
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SHEET TITLE

**PLUMBING
 ANIMAL BLDG
 UNDERSLAB
 PLAN**

DRAWN BY: RC	JOB NUMBER: 18050
CHECKED BY: GGM	DATE: 04/18/2024

C-P1.0

SHEET: OF:



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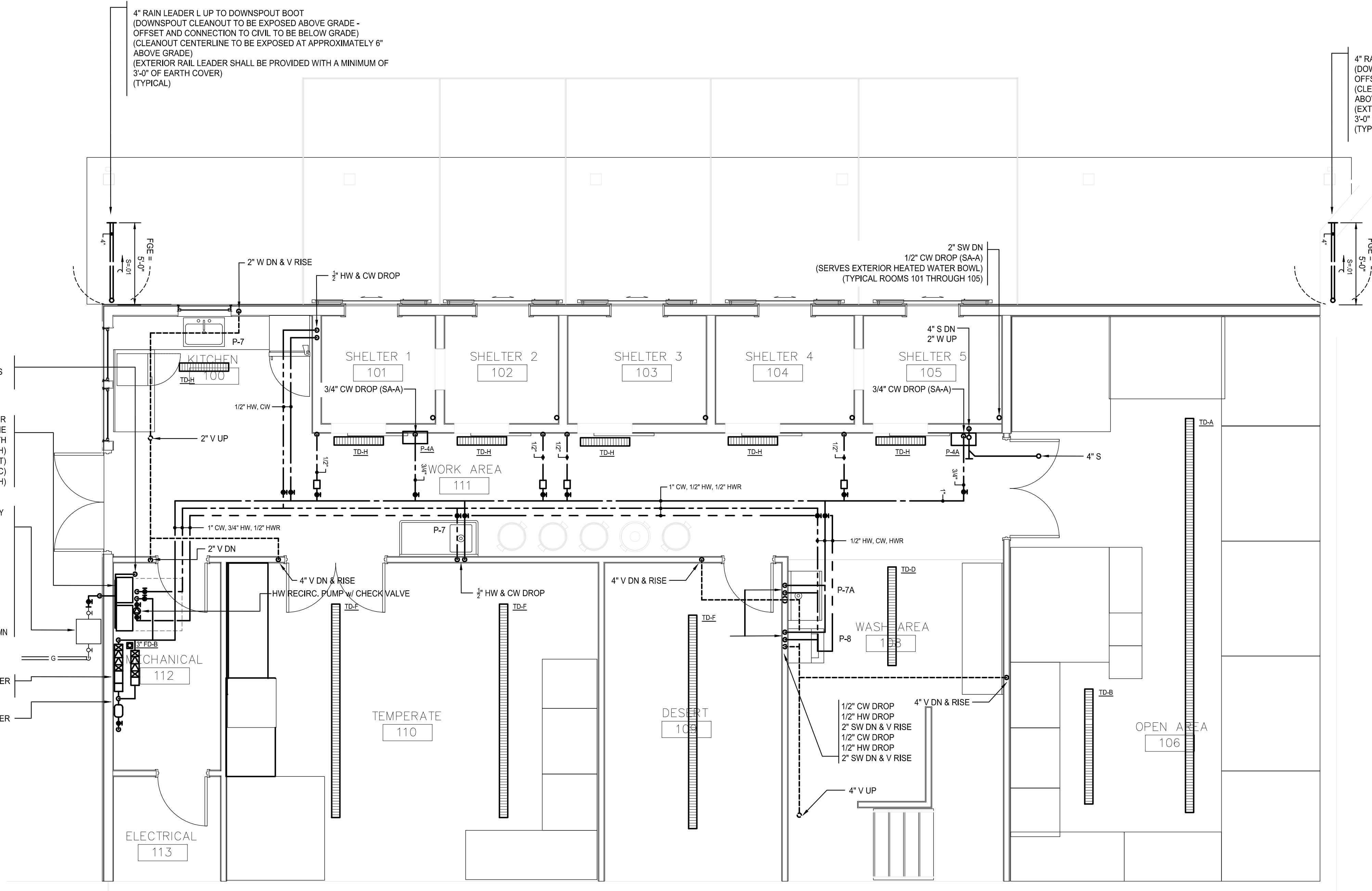
SHEET TITLE

**PLUMBING
 ANIMAL BLDG
 LOWER LEVEL
 FLOOR PLAN**

DRAWN BY: XXX JOB NUMBER: 18050
 CHECKED BY: YYY DATE: 04/18/2024

C-P1.1

SHEET: OF:



1 1/2" GAS SUPPLY DROP TO GWH-1 COMPLETE W/ GAS COCK, UNION & SED LEG.

NATURAL GAS WATER HEATER
 RINNAI TRX02CUIN 2 UNIT COMPACT WALL MOUNT FRAME
 (TWO CU1991 NATURAL GAS CONSUMPTION 199 CFH WITH A RECOVERY RATE OF 4.8 GPM AT 100°F RISE EACH)
 (97% EFFICIENT)
 (NATURAL GAS SUPPLY PRESSURE 3.5" WC TO 10.5" WC)
 (398 CFH)

NEW NATURAL GAS SERVICE LINE AND METER SET ASSEMBLY BY GAS UTILITY COMPANY
 (LOW PRESSURE SYSTEM - 14" WC OR LESS - PRESSURE AT METER OUTLET = 10" WC)
 SERVICE REQUIRES A TOTAL OF 398 CFH

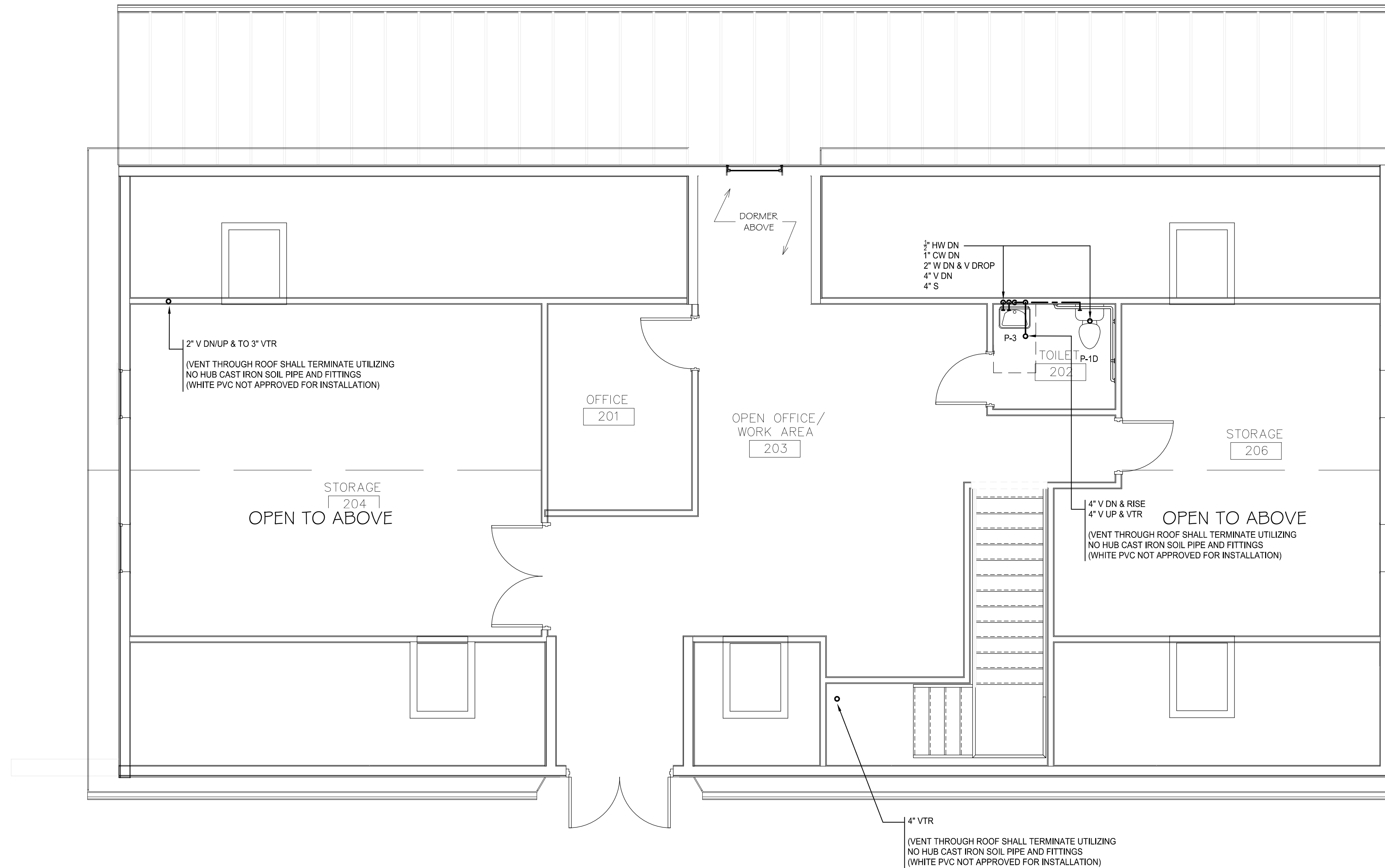
- PLUMBING WATER HEATER = 398 CFH

PIPE SIZING BASED ON THE FOLLOWING:
 LENGTH OF PIPE FROM POINT OF DELIVERY TO THE MOST REMOTE OUTLET = 50'
 FRICTION LOSS FROM VALVES AND FITTINGS = 10'
 TOTAL EQUIVALENT LENGTH = 60'

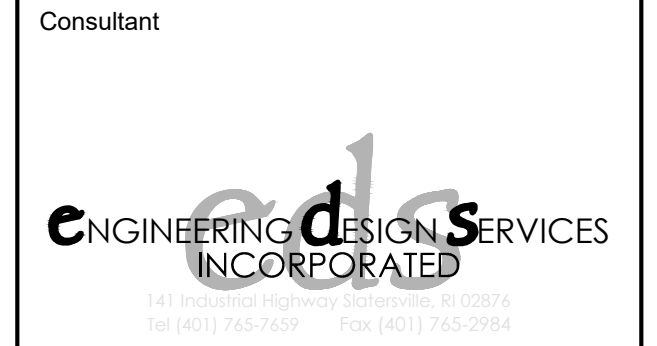
RHODE ISLAND - BASED ON 2019 RHODE ISLAND FUEL GAS CODE TABLE 402.4(2)
 INLET PRESSURE LESS THAN 2 PSI WITH PRESSURE DROP OF 0.5 INCHES WATER COLUMN

(2) 1" REDUCED PRESSURE BACKFLOW PREVENTER
 (INSTALL SECONDARY OVER PRIMARY ON WALL)

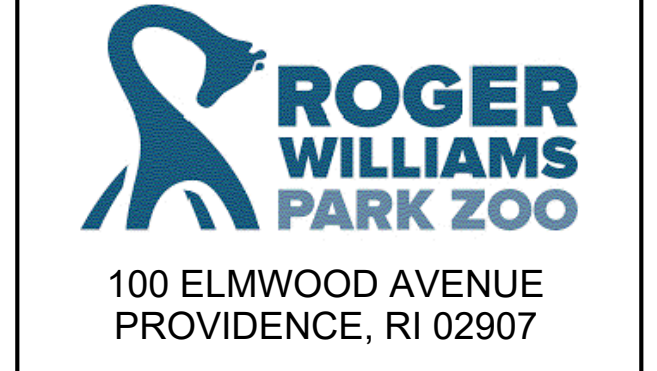
WATER SERVICE METER WITH STRAINER



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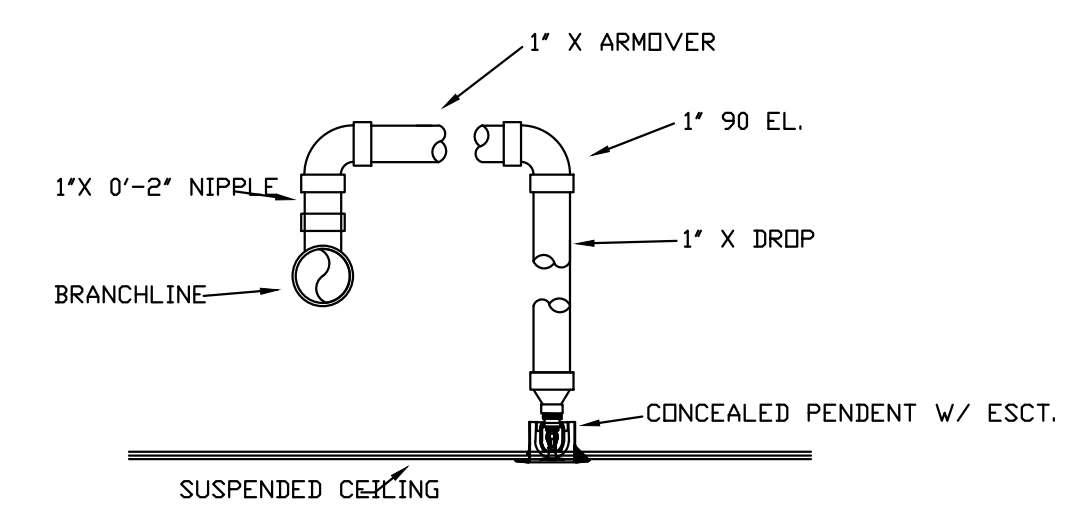
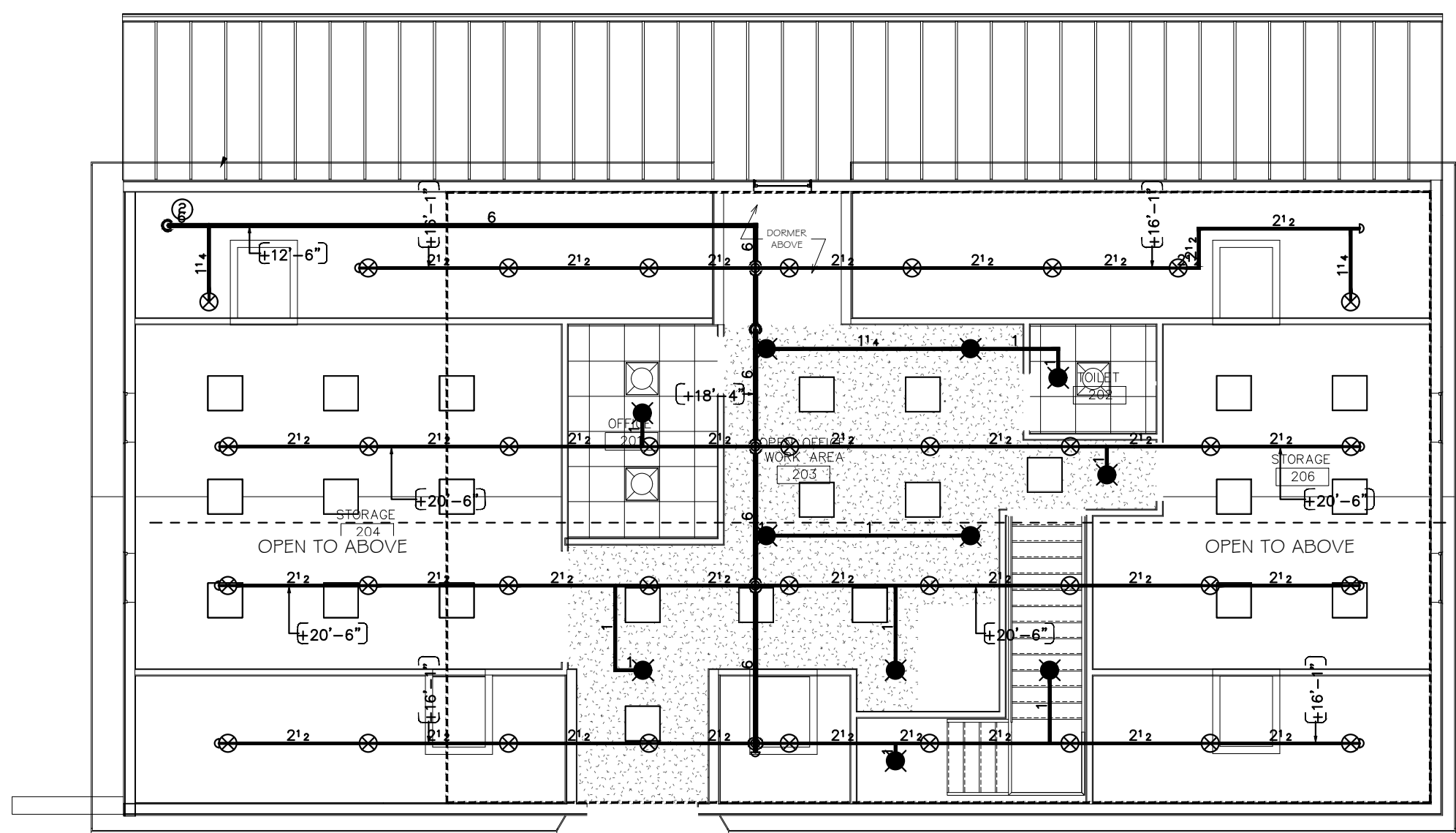
SHEET TITLE

**PLUMBING
 ANIMAL BLDG
 UPPER LEVEL
 FLOOR PLAN**

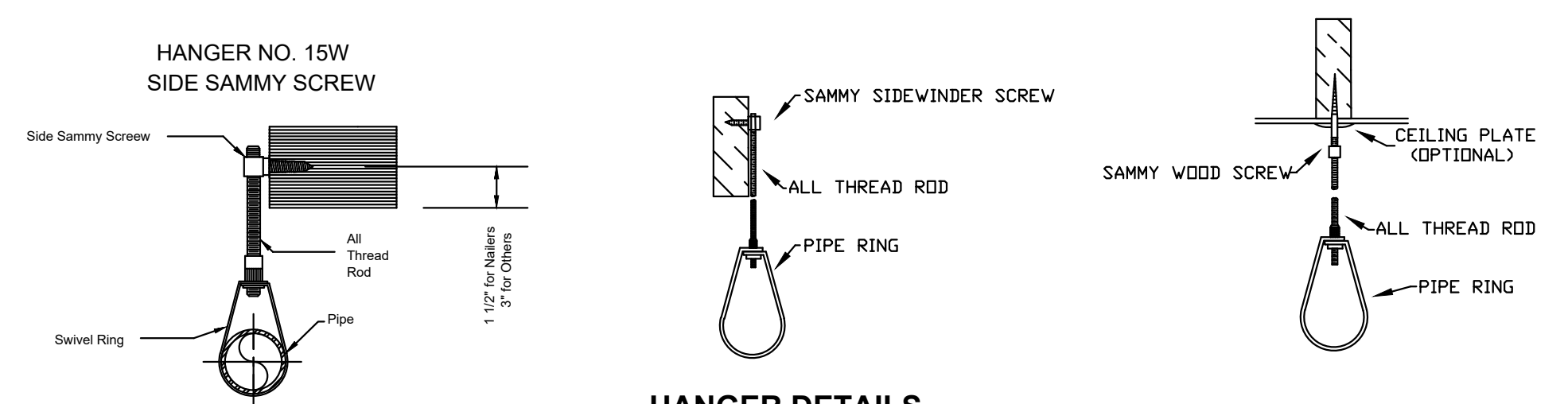
DRAWN BY: RC	JOB NUMBER: 18050
CHECKED BY: GGM	DATE: 04/18/2024

C-P1.2

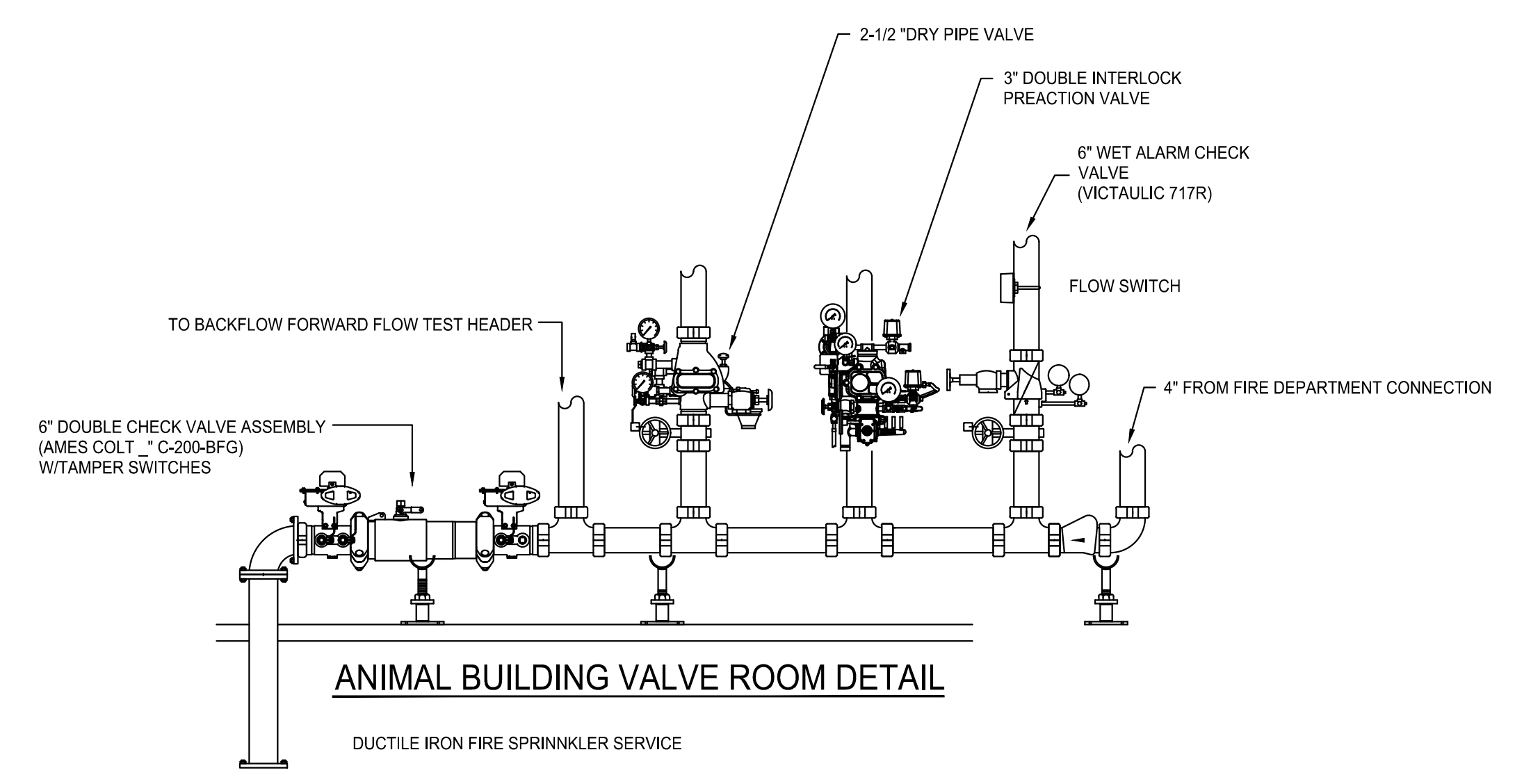
SHEET: OF:



RETURN BEND DETAIL
NOT TO SCALE



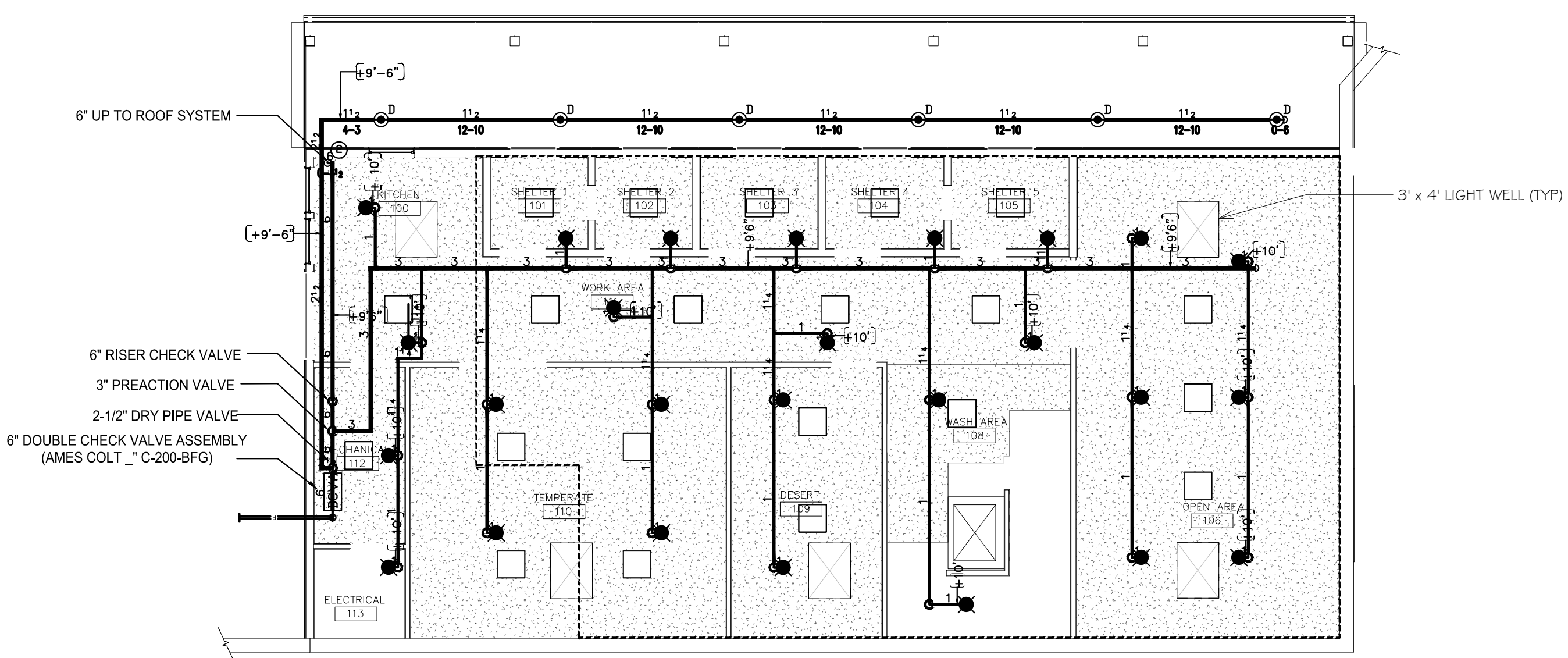
HANGER DETAILS
NOT TO SCALE



ANIMAL BUILDING VALVE ROOM DETAIL
DUCTILE IRON FIRE SPRINKLER SERVICE

ANIMAL BUILDING - SPRINKLER HEAD LEGEND

SYM	SPRINKLER TYPE	FINISH	TEMP	K	NPT
⊗	QUICK RESPONSE UPRIGHT	BRASS	175	4.20	1/2"
⊙	QUICK DRY PENDENT	WHITE	155	5.60	1/2"
●	QUICK RESPONSE PENDENT	WHITE	155	5.60	1/2"

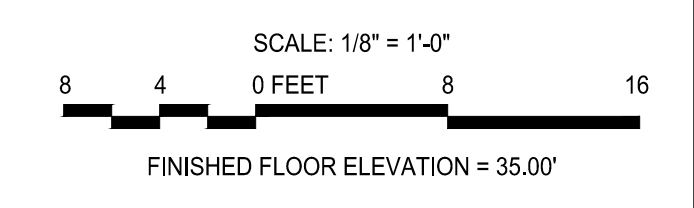


CEILING ARE ATTACHED DIRECTLY TO OR WITHIN 6" BOTTOM OF WOOD FLOOR JOISTS - NO UPRIGHT SPRINKLER PROTECTION REQUIRED ACCORDING TO NFPA 13, SECTION 8.15.1.2.5

PER SECTION 11.2.3.4.2 - WHERE AN AREA IS TO BE PROTECTED BY A SINGLE LINE OF SPRINKLERS, THE DESIGN AREA SHALL INCLUDE ALL SPRINKLERS ON THE LINE UP TO A MAXIMUM OF SEVEN.

ALL PENDENT SPRINKLERS ON PREACTION SYSTEM SHALL BE INSTALLED ON RETURN BENDS IN ACCORDANCE WITH NFPA 13, SECTION 7.3.2.5(3).

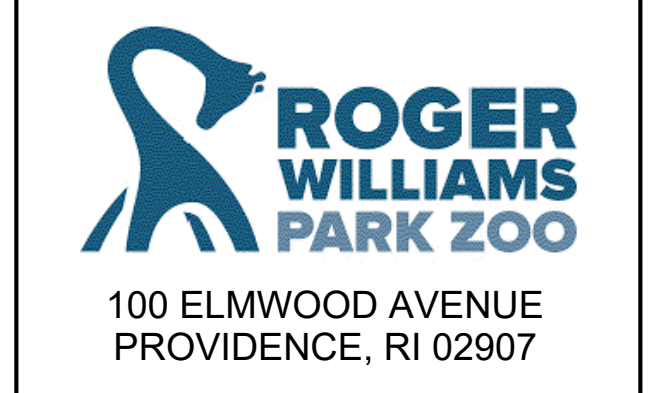
1 LOWER & UPPER LEVEL FLOOR PLAN
C-FP1.1 1/8" = 1'-0"



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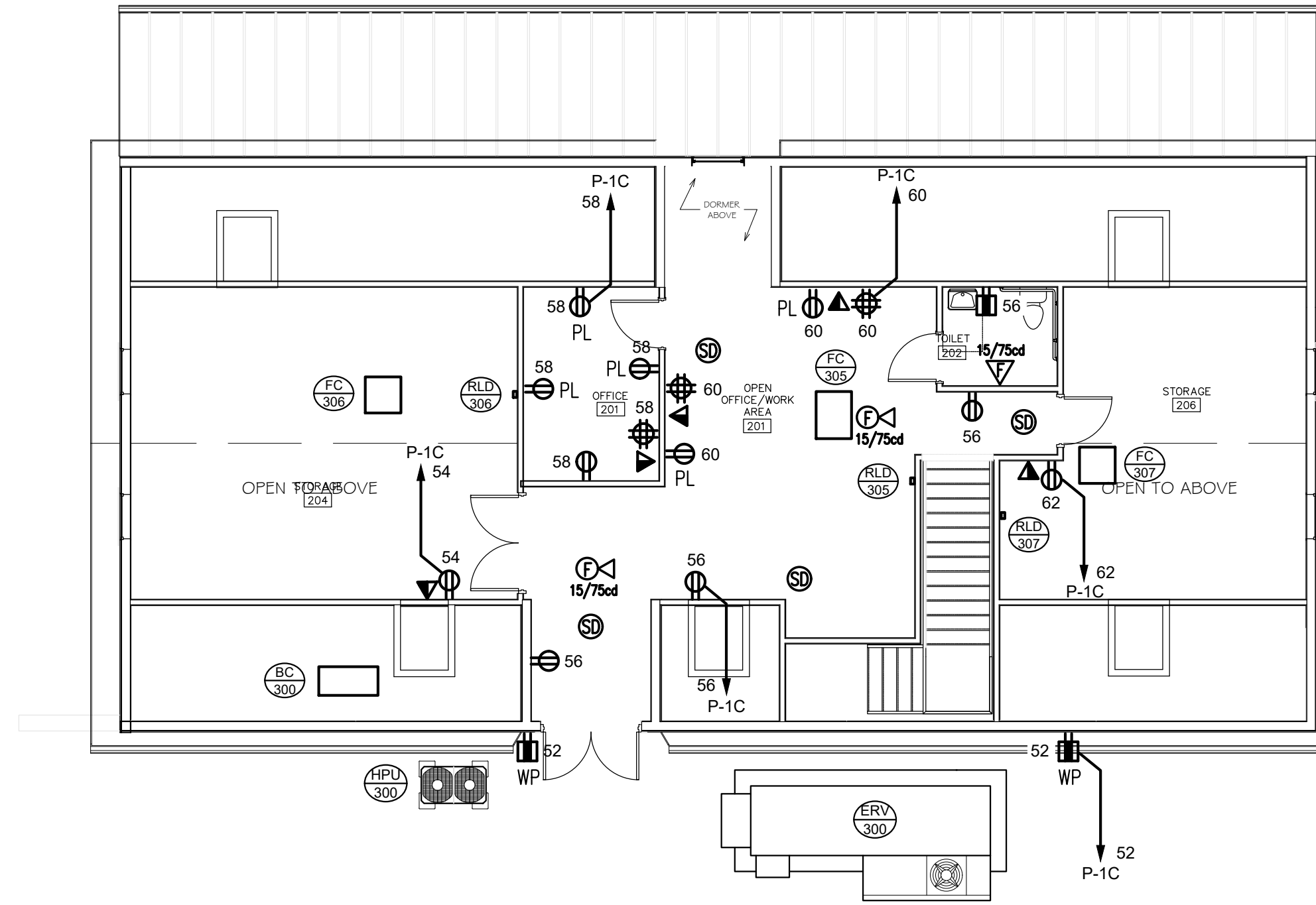
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SHEET TITLE
**FIRE PROTECTION
ANIMAL BUILDING**

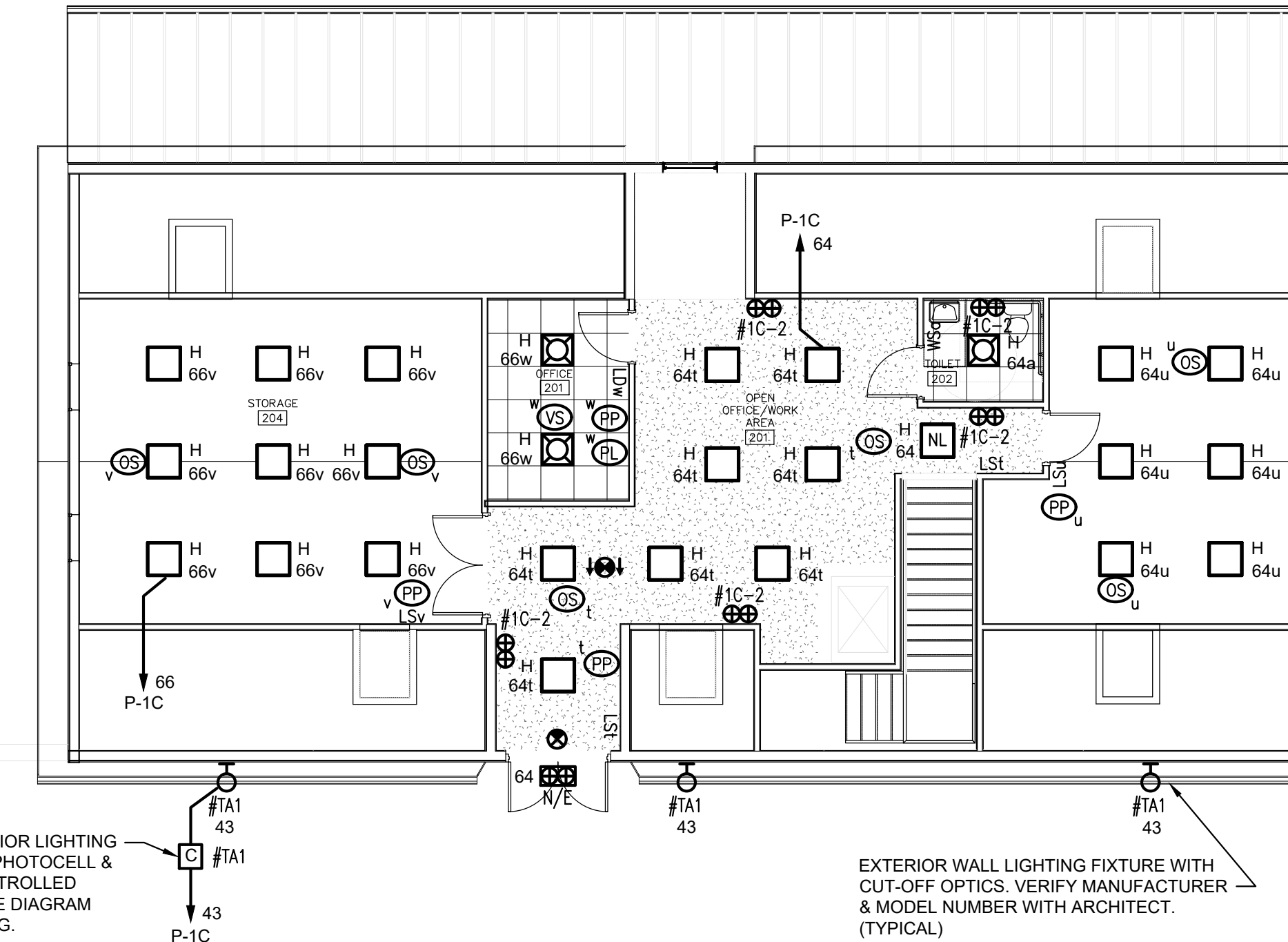
DRAWN BY: DDL JOB NUMBER: 18050
CHECKED BY: GGM DATE: 04/18/2024

C-FP1.0

SHEET: OF:



4
E4-1
1/8" = 1'-0"
ANIMAL BUILDING UPPER LEVEL PLAN - POWER & SIGNAL

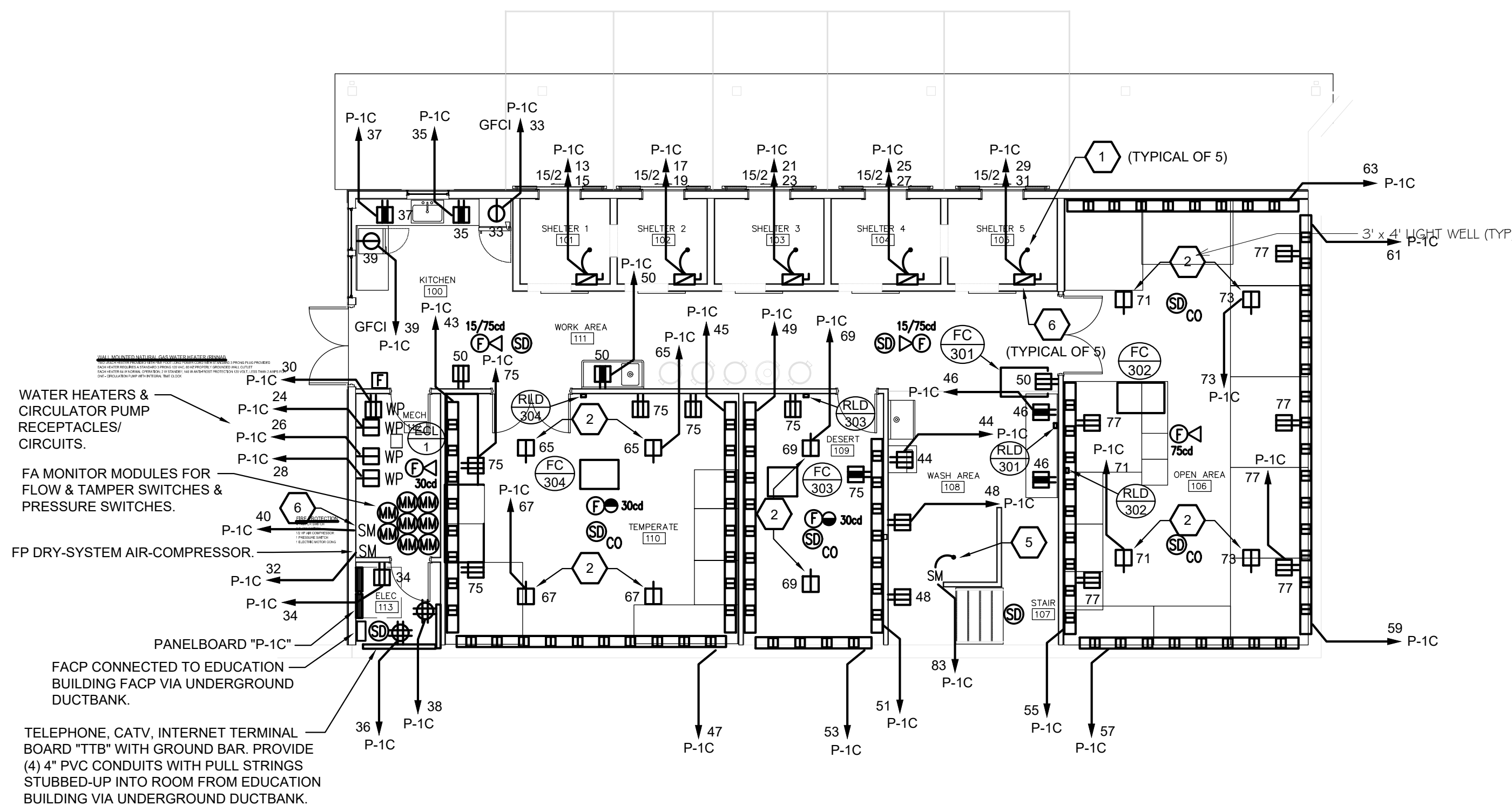


2
E4-1
1/8" = 1'-0"
ANIMAL BUILDING UPPER LEVEL PLAN - LIGHTING

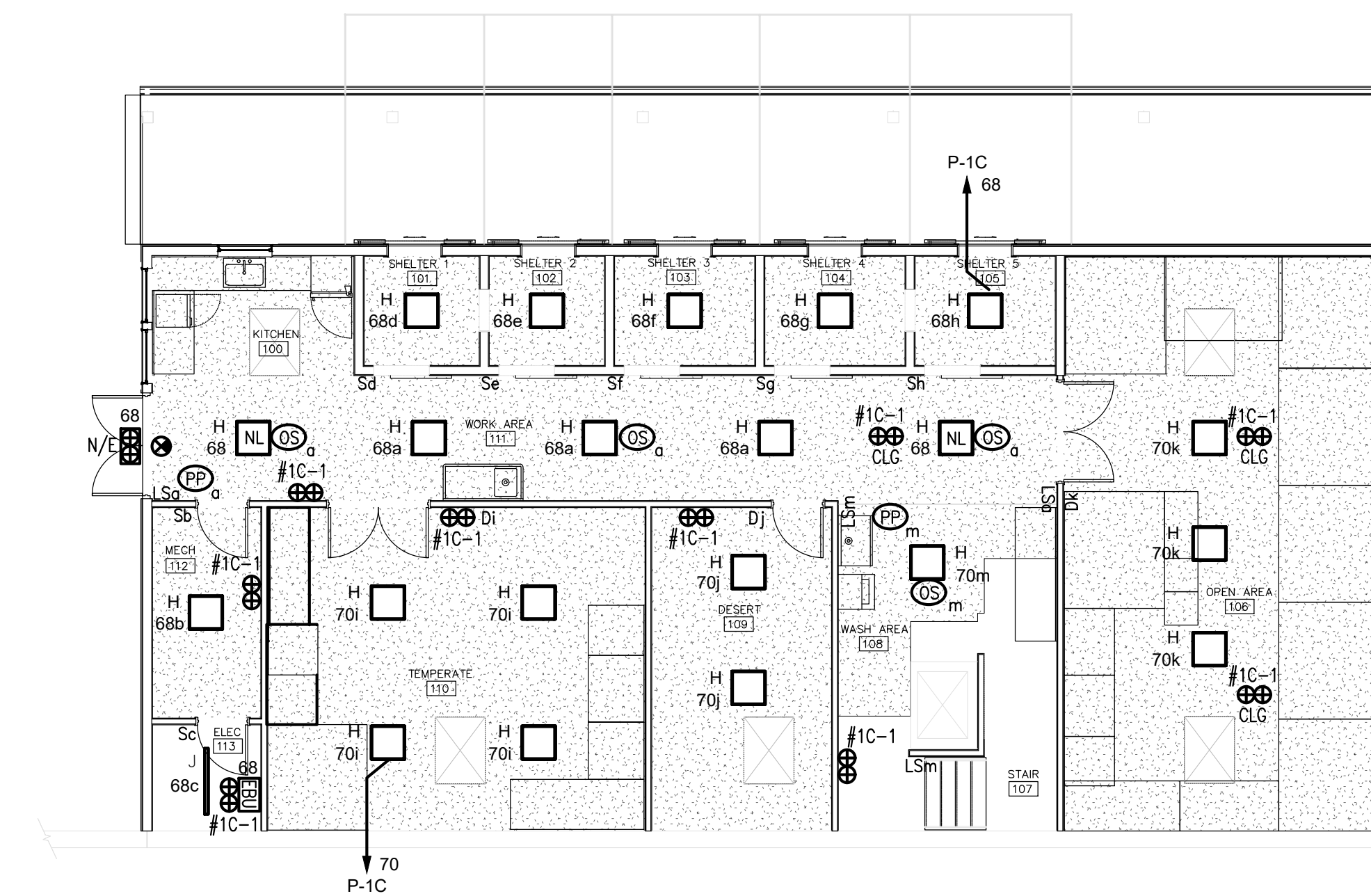
SHEET KEYED NOTES:

- 1 PROVIDE A WEATHER-PROOF FUSED DISCONNECT SWITCH & 208V, 15AMP CIRCUIT FOR RADIANT HEAT BEING PROVIDED BY M.C. VERIFY EXACT CONNECTION REQUIREMENTS WITH M.C. PRIOR TO ANY WORK.
- 2 PROVIDE A GFCI 125 VOLT 20A GROUNDING SLOT RECEPTACLE ON THE CEILING FOR A PULL DOWN, COILING CORD & PLUG SET. COORDINATE & VERIFY EXACT INSTALLATION REQUIREMENTS WITH ARCHITECT & LOCATIONS WITH THE OWNER PRIOR TO ANY WORK. (TYPICAL)
- 3 PROVIDE A SURFACE MOUNTED RACEWAY WITH GFCI 125 VOLT 20A GROUNDING SLOT RECEPTACLES 2'-0" ON CENTER HIGH UP ON WALL. COORDINATE & VERIFY EXACT INSTALLATION REQUIREMENTS WITH ARCHITECT & LOCATIONS WITH THE OWNER PRIOR TO ANY WORK. (TYPICAL)
- 4 GFCI RECEPTACLES SHOWN OUTSIDE OF RACEWAY ARE 18" AFF IN WALL. COORDINATE & VERIFY EXACT LOCATIONS WITH THE OWNER PRIOR TO ANY WORK. (TYPICAL)
- 5 PROVIDE DEDICATED 120V CIRCUIT CONSISTING OF 2#10 + 1#10G IN 3/4" C. AND MOTOR RATED TOGGLE SWITCH / STARTER RATED DOR 30AMPS FOR WHEELCHAIR LIFT. COORDINATE & VERIFY EXACT LOCATION WITH THE OWNER PRIOR TO ANY WORK. (TYPICAL)
- 6 PROVIDE A WEATHER-PROOF MOTOR RATED TOGGLE SWITCH / STARTER & 120V CIRCUIT FOR SPRINKLER PRE-ACTION SYSTEM AIR-COMPRESSOR BEING PROVIDED BY F.P.C. VERIFY EXACT CONNECTION REQUIREMENTS WITH F.P.C. PRIOR TO ANY WORK.

MECHANICAL EQUIPMENT CONNECTION TAG:
REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" ON DRAWING E0.5 FOR ALL CIRCUITING INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITING WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISC. SWITCH & CIRCUIT BREAKER.



3
E4-1
1/8" = 1'-0"
ANIMAL BUILDING LOWER LEVEL PLAN - POWER & SIGNAL



1
E4-1
1/8" = 1'-0"
ANIMAL BUILDING LOWER LEVEL PLAN - LIGHTING



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SHEET TITLE
ELECTRICAL ANIMAL BUILDING FLOOR PLANS - LIGHTING, POWER & SIGNAL

DRAWN BY: SPC JOB NUMBER: 18050
CHECKED BY: RWD DATE: 04/18/2024

C-E4.1

SHEET: OF: