# AND PAVILION FOR THE

# EDUCATION CENTER ROGER WILLIAMS PARK ZOO





ARCHITECTS

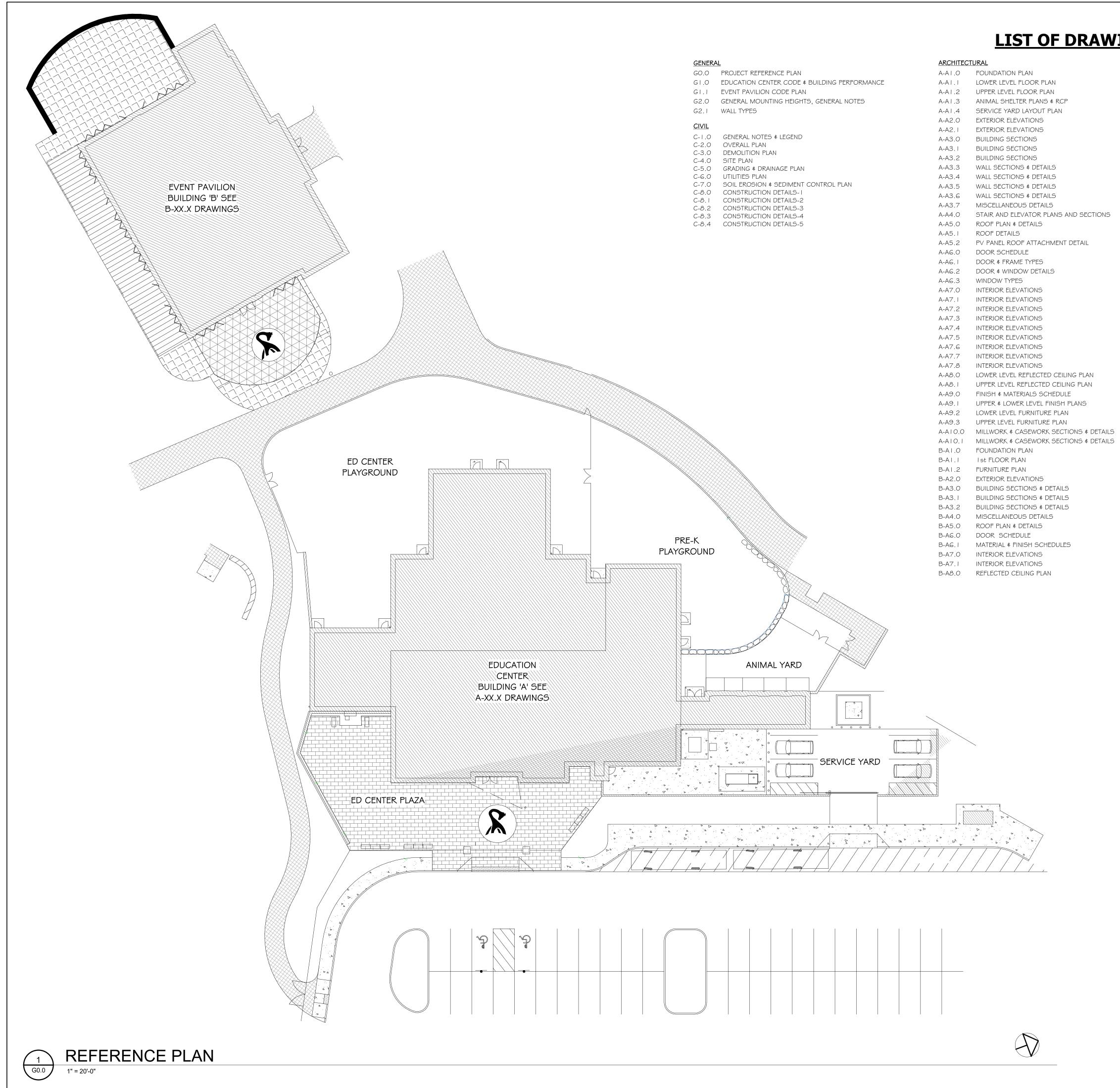
SACCOCCIO & ASSOCIATES, INC. CRANSTON, RI 02910 1085 PARK AVENUE

CIVIL ENGINEERING & SURVEYING

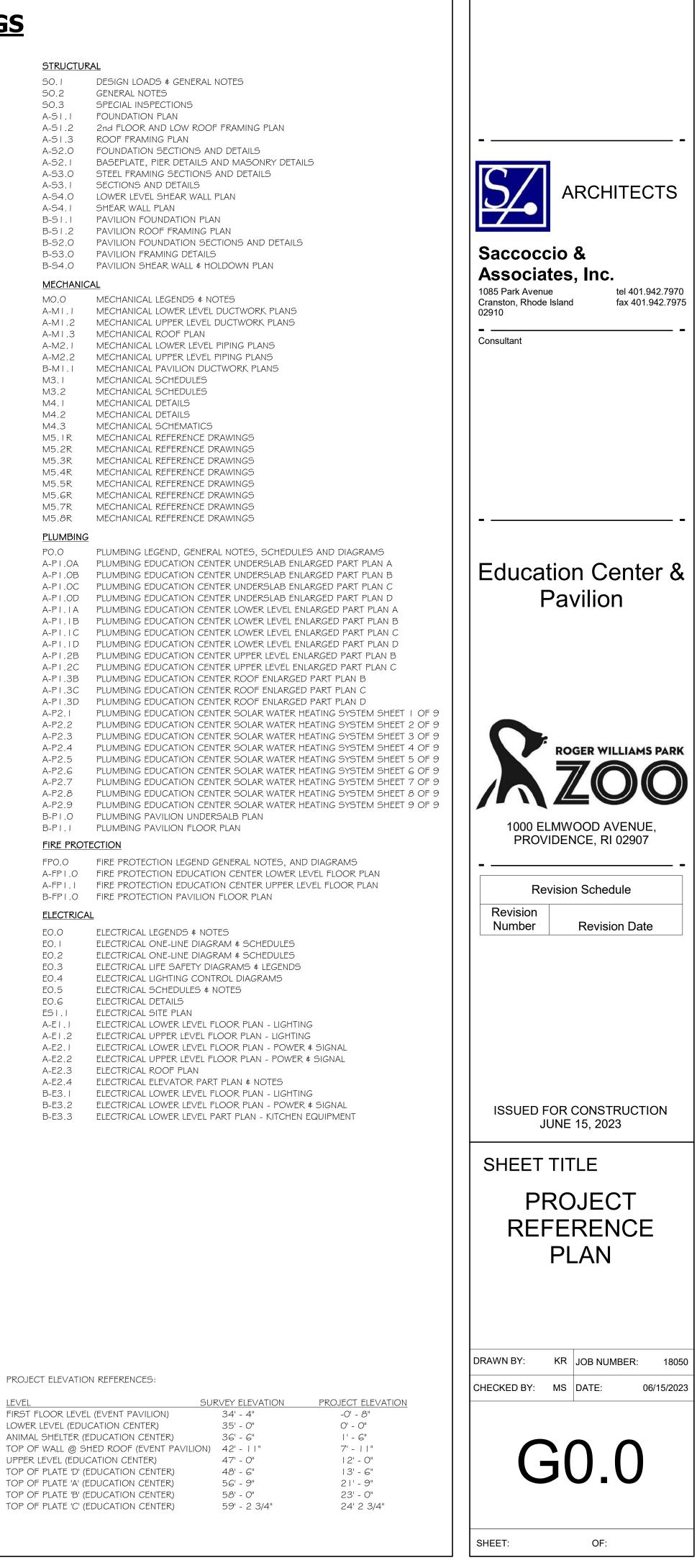
STRUCTURAL

Garofalo & Associates, Inc. C.A.Pretzer Associates Inc. Engineering Design Services MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION ENGINEERS

FOR CONSTRUCTION MAY 31, 2023



# LIST OF DRAWINGS



- ALLOWABLE AIR LEAKAGE - 0.10 CFM AT 75 PASCALS TEST PRESSURE PER SQ. FT. OF BUILDNIG ENCLOSURE

- 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)

- WALLS BETWEEN ANIMAL HOLDING ROOMS - MINIMUM R-20

- BETWEEN UPPER & LOWER LEVEL - MINIMUM R-20

EDUCATION CENTER BUILDING ENERGY CONSERVATION REQUIREMENTS (TYP. UNLESS NOTED OTHERWISE ON DRAWINGS:

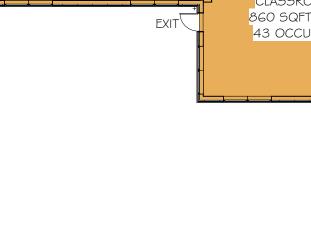
CLASSROOM I

947 SQFT NET =

48 OCCUPENTS

(2) G1.0

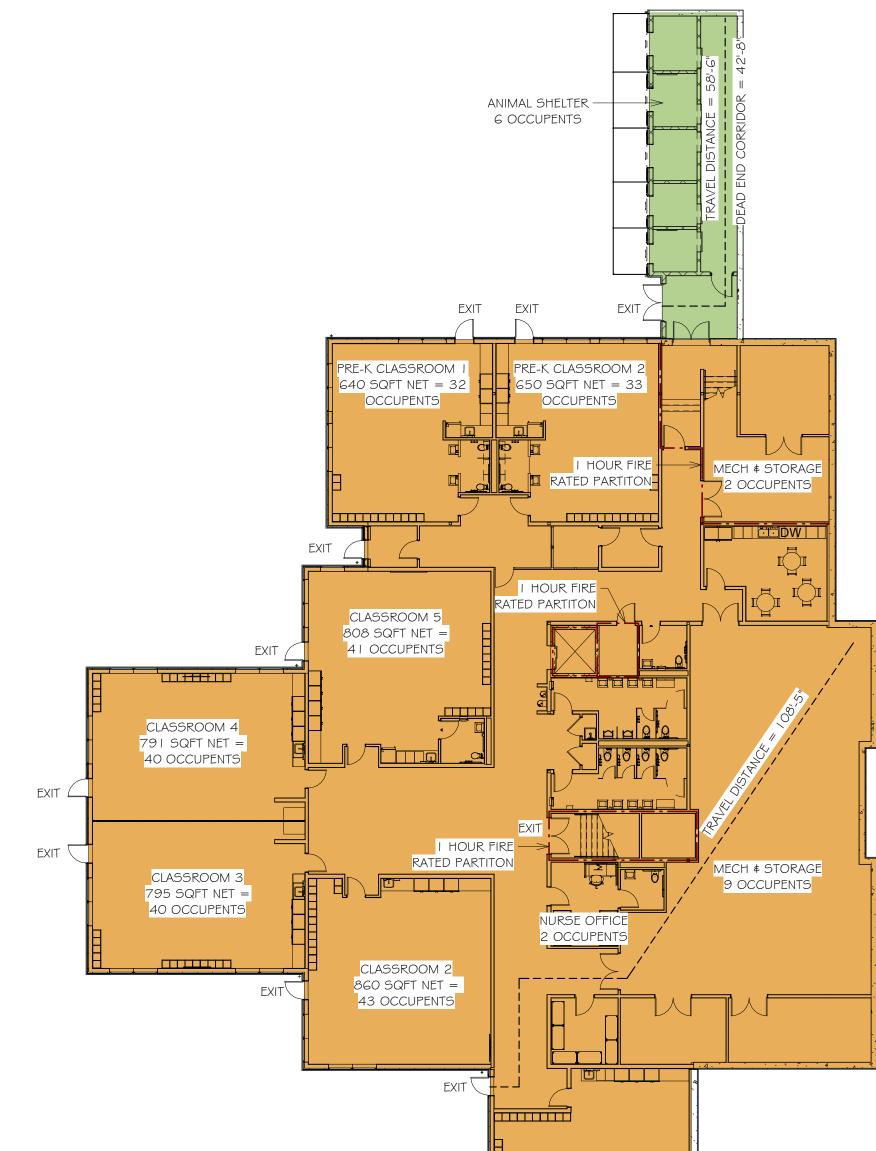
EXIT 🚄



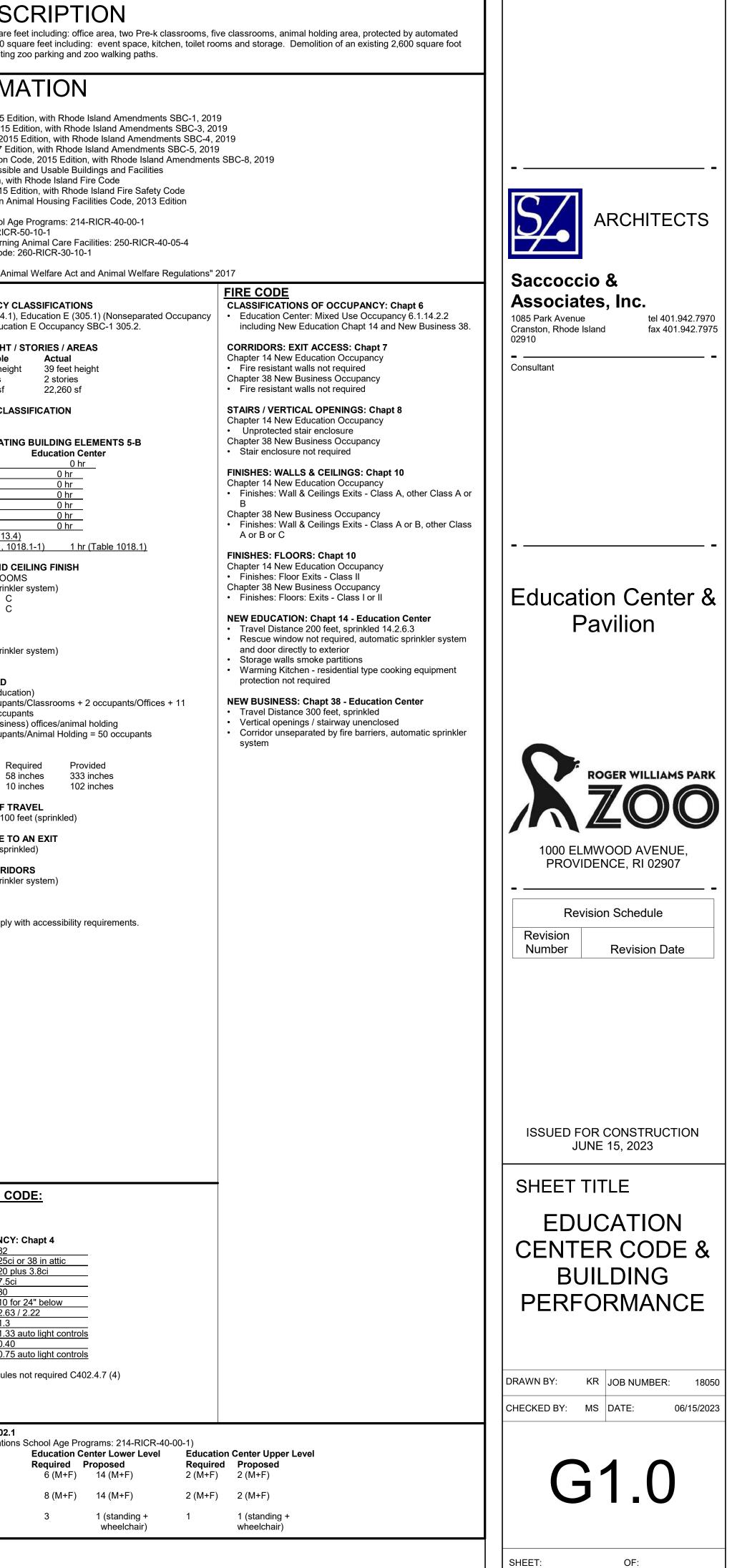
LOWER FLOOR PLAN

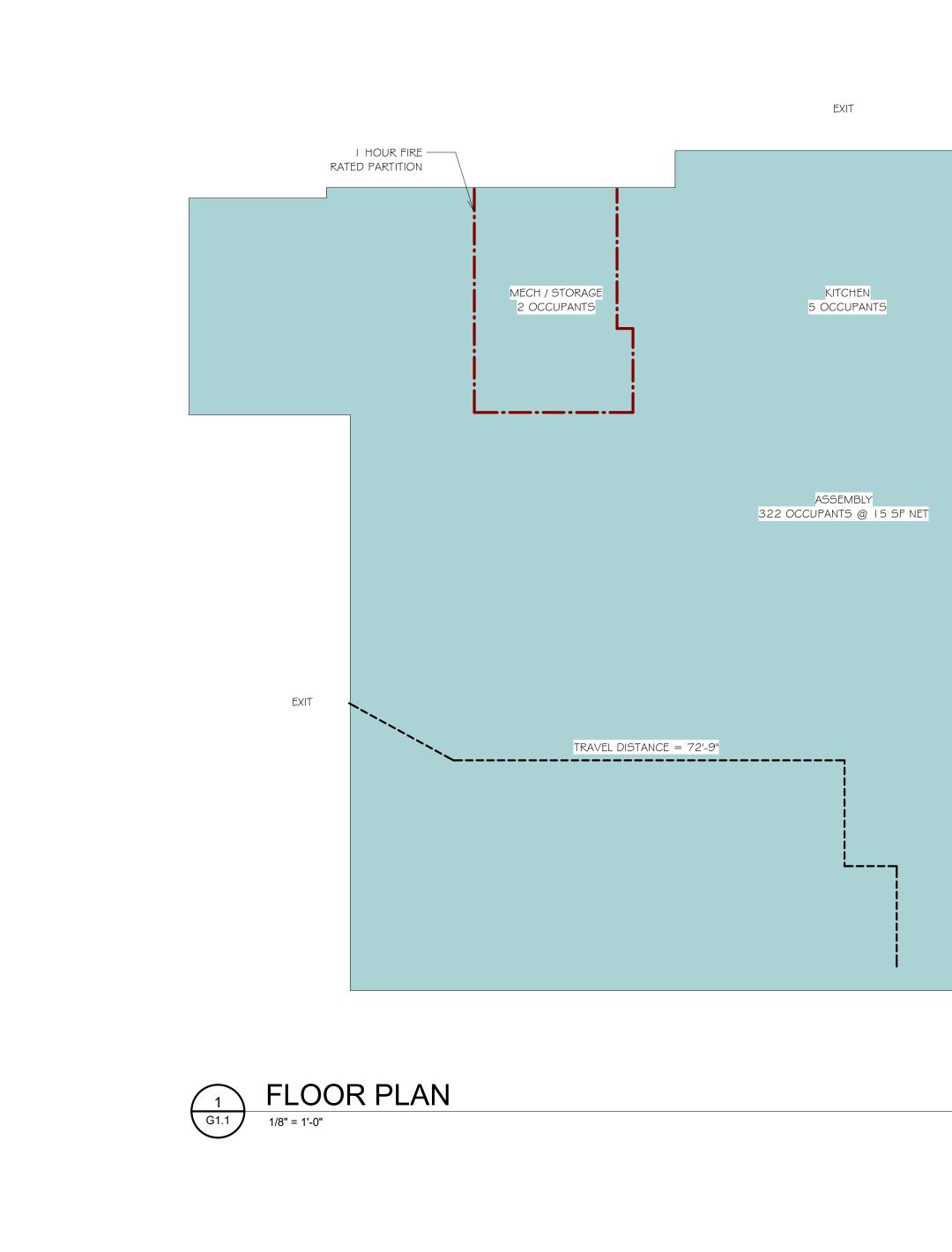
(1) G1.0

1/16" = 1'-0"



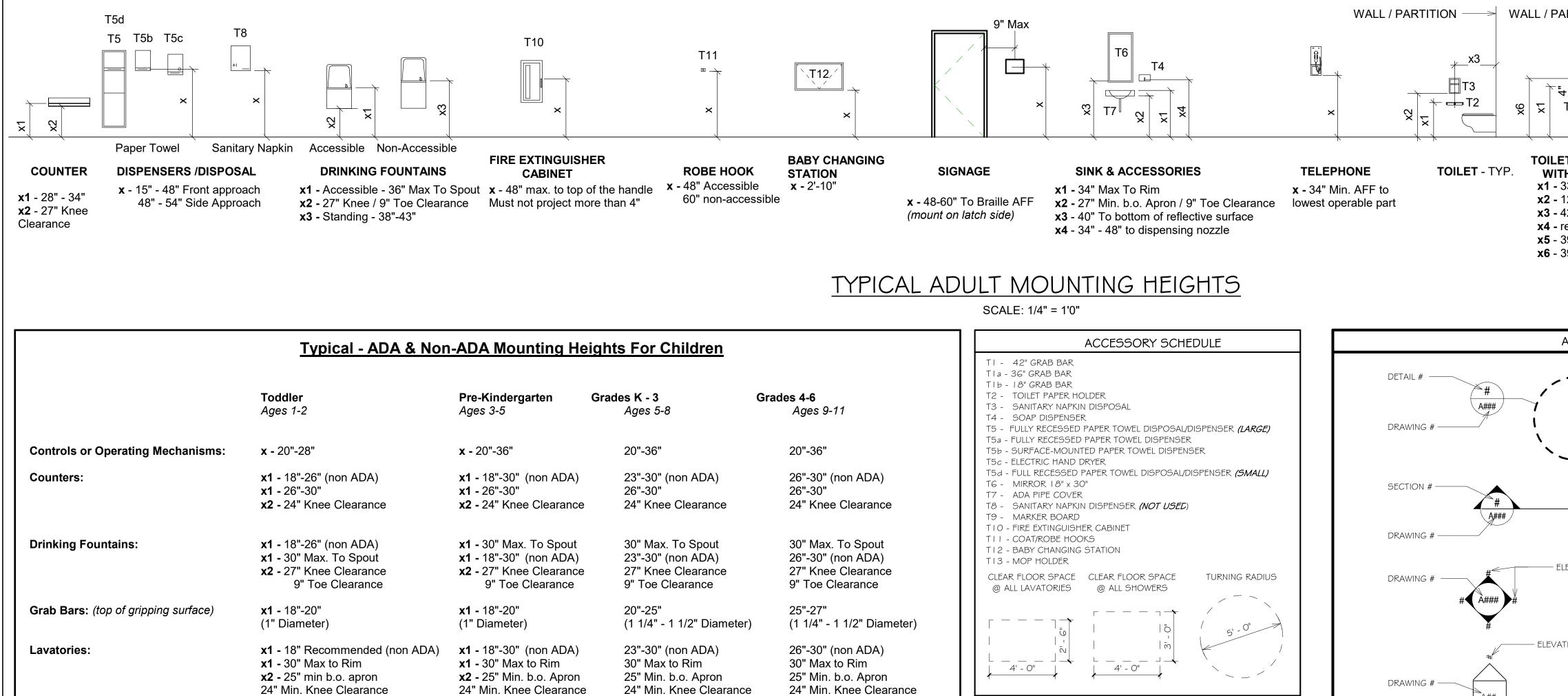
	<b>PROJECT DES</b> Education Center: 2- story 22,260 square f sprinkler system. Event Pavilion: 7,000 sq green house. Modifications to the existing
	CODE INFORM
	<ul> <li>International Building Code, 2015 Ed International Plumbing Code, 2015 Ed International Mechanical Code, 2017 Ed International Electric Code, 2017 Ed International Energy Conservation C ICC/ ANSI A117.1 - 2009, Accessibl</li> <li>NFPA-1 Fire Code, 2015 Edition, with NFPA-101 Life Safety Code, 2015 Edition</li> </ul>
	<ul> <li>NFPA-150 Fire and Life Safety in An</li> <li>Rhode Island Regulations School Ag</li> <li>Rhode Island Food Code: 216-RICR</li> <li>Rhode Island Regulations Governing</li> <li>Rhode Island Elevator Safety Code:</li> </ul>
I HOUR FIRE RATED FLOOR I HOUR FIRE RATED FLOOR CONSTRUCTION TYPE B CONSTRUCTION TYPE A CONSTRUCTION TYPE A C	<ul> <li>U.S. Department of Agriculture "Anir</li> <li>BUILDING CODE: SECTION 3 - USE AND OCCUPANCY C</li> <li>Education Center: Business B (304.1) 508.3), Day Care classified as Educat</li> <li>SECTION 503 - ALLOWABLE HEIGHT / Allowable</li> <li>Education Center: 5-B 40 feet heigt Nonseparated E: 2 stories (sprinklered) 38,000 sf</li> <li>SECTION 602 - CONSTRUCTION CLAS:</li> <li>Construction Type = Type VB</li> <li>TABLE 601 - FIRE RESISTANCE RATIN</li> <li>Structural Frame =</li> <li>Exterior Bearing Walls =</li> <li>Interior Bearing Walls =</li> <li>Nonbearing interior walls =</li> <li>Nonbearing interior walls =</li> <li>Roof Construction =</li> <li>Elevator Shaft Enclosure = 1 hr (713.4 Corridor Wall = 0 hr (Table 1018.1, 10)</li> <li>TABLE 803.9 INTERIOR WALL AND C EXIT CORRIDOR ROOF</li> <li>Education Center: (with automatic sprinkl B: B C C</li> <li>E: Cass II and DOC-FF-1</li> <li>TABLE 1004.1.2 - OCCUPANT LOAD</li> <li>Education Center: (with automatic sprinkl B, E Class II and DOC-FF-1</li> <li>TABLE 1005.3.2 - EGRESS SIZE</li> <li>E: 65 occupants/Pre-K + 212 occupant occupants/Storage/Mech = 290 occup Education Center-Lower Level: E (educa B: 27 occupants/Offices + 23 occupant</li> <li>TABLE 1015.3.2 - EGRESS SIZE</li> <li>E ducation Center - Lower Level: E (busine B: 27 occupants/Offices + 23 occupant</li> <li>TABLE 1016.2 - TRAVEL DISTANCE TO C Education Center - Lower Level: 10</li> <li>TABLE 1016.2 - TRAVEL DISTANCE TO C Education Center: Wax 250 feet (sprint SECTION 1020.4 - DEAD END CORRID</li> <li>Education Center: Wax 250 feet (sprint SECTION 1020.4 - DEAD END CORRID</li> <li>Exception 2: 50 feet maximum</li> </ul>
	<b>SECTION 11 - ACCESSIBILITY</b> Education Center: building shall comply v
) UPPER LEVEL FLOOR PLAN	
	ENERGY CONSERVATION CO CLIMATE ZONE: Chapt 3 Zone 5, Providence County
I. SEE DRAWING A501 FOR WALL TYPES AND DET	COMMERCIAL ENERGY EFFICIENCY         Low slope roof SRI =       82         Roof R-value =       25ci         Walls R-value =       20 pl         Walls below grade R-value =       7.5ci         Floors R-value =       30         Slab on Grade R-value =       10 fc         Window fixed/operable R-value =       2.63         Entrance door R-value =       1.3         Skylights R-value =       1.33         SHGC windows, doors =       0.40
	SHGC skylights = 0.75 Education Center: lower level vestibules
ACCESS AISLE TRAVEL DISTANCE      O     ACTUAL OCCUPANT LOAD     OOO     EGRESS CAPACITY - ACTUAL	PLUMBING FIXTURES: TABLE 2902.1 (Pre-School: Rhode Island Regulation
000       EGRESS CAPACITY - ACTUAL         000       EGRESS CAPACITY - ALLOWABLE         EGRESS CAPACITY - ALLOWABLE         SMOKE PARTITION         I HR PARTITION	<ul> <li>Water Closet (Male)</li> <li>Water Closet (Female)</li> <li>Lavatories (Male)</li> <li>Lavatories (Female)</li> <li>Drinking Fountains</li> </ul>





		PROJECT DESCRIP
		Education Center: 2- story 22,260 square feet including sprinkler system. Event Pavilion: 7,000 square feet including green house. Modifications to the existing zoo parking a
		CODE INFORMATIC
I HOUR FIRE		CODE LIST:     International Building Code, 2018 Edition, with Rt
		<ul> <li>International Plumbing Code, 2018 Edition, with F</li> <li>International Mechanical Code, 2018 Edition, with</li> <li>International Electric Code, 2018 Edition, with Rh</li> </ul>
		<ul> <li>International Energy Conservation Code, 2018 Ed</li> <li>ICC/ ANSI A117.1 - 2009, Accessible and Usable</li> <li>NFPA-1 Fire Code, 2018 Edition, with Rhode Isla</li> </ul>
MECH / STORAGE 3 OCCUPANTS		<ul> <li>NFPA-101 Life Safety Code, 2018 Edition, with R</li> <li>NFPA-150 Fire and Life Safety in Animal Housing</li> </ul>
		<ul> <li>Rhode Island Regulations School Age Programs:</li> <li>Rhode Island Food Code: 216-RICR-50-10-1</li> </ul>
		<ul> <li>Rhode Island Regulations Governing Animal Car.</li> <li>Rhode Island Elevator Safety Code: 260-RICR-30</li> </ul>
		U.S. Department of Agriculture "Animal Welfare A BUILDING CODE:
		<ul> <li>SECTION 3 - USE AND OCCUPANCY CLASSIFICAT</li> <li>Event Pavilion: Assembly A-2 (303.3)</li> </ul>
		SECTION 503 - ALLOWABLE HEIGHT / STORIES / Allowable         Allowable       Actual         • Event Pavilion: 5-B       60 feet height       30 feet         2 stories       1 stor         24,000 sf       7,575
		SECTION 602 - CONSTRUCTION CLASSIFICATION • Construction Type = Type VB
		TABLE 601 - FIRE RESISTANCE RATING BUILDING
		<u>Structural Frame</u> <u>Exterior Bearing Walls</u>
		<ul> <li>Interior Bearing Walls</li> <li>Nonbearing exterior walls</li> <li>Nonbearing interior walls</li> </ul>
		Floor Construction     Roof Construction
	EXIT	TABLE 803.9 - INTERIOR WALL AND CEILING FINISEXITCORRIDORROOMSEvent 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
		<ul> <li>Event Pavilion: A-2 non-fixed seating/ Kitchen/ Mech-</li> <li>A-2: 322 occupants/ K: 5 occupants/ M: 5 occupant</li> </ul>
		TABLE 1005.3.2 - EGRESS SIZERequired• Event Pavilion:67 inches
		TABLE 1016.2 - TRAVEL DISTANCE TO AN EXIT         Event Pavilion: Max 200 feet
		<ul> <li>SECTION 11 - ACCESSIBILITY</li> <li>Event Pavilion: building shall comply with accessib</li> </ul>
		ENERGY CONSERVATION CODE: CLIMATE ZONE: Chapt 3 Zone 5, Providence County
		COMMERCIAL ENERGY EFFICIENCY: Chapt 4
		Low slope roof SRI =82Roof R-value =25ci or 38 in atticWalls R-value =20 plus 3.8ci
1		Walls below grade R-value =7.5ciFloors R-value =30Slab on Grade R-value =10 for 24" below
	FIRE SAFETY LEGEND	Window fixed/operable R-value =2.63 / 2.22Entrance door R-value =1.3
	1. SEE DRAWING A501 FOR WALL TYPES AND DETAILS.	Skylights R-value =1.33 auto light colSHGC windows, doors =0.40SHGC skylights =0.75 auto light col
	<b>4</b> – 199' – – TRAVEL DISTANCE	
	←	
	0 ACTUAL OCCUPANT LOAD	PLUMBING FIXTURES: TABLE 2902.1 Event Pavilion
	000 - EGRESS CAPACITY - ACTUAL 000 - EGRESS CAPACITY - ALLOWABLE	Water Closet (Male)     Required Propose     3 4
		Lavatories (Male) 1 3     Lavatories (Female) 1 3
		Drinking Fountains     1     1

CRIPTION		
eet including: office area, two Pre-k classrooms, fi	ve classrooms, animal holding area, protected by automated oms and storage. Demolition of an existing 2,600 square foot	
ATION		
dition, with Rhode Island Amendments SBC-1, 202 Edition, with Rhode Island Amendments SBC-3, 20 3 Edition, with Rhode Island Amendments SBC-4, ition, with Rhode Island Amendments SBC-5, 202 code, 2018 Edition, with Rhode Island Amendment e and Usable Buildings and Facilities th Rhode Island Fire Code Edition, with Rhode Island Fire Safety Code himal Housing Facilities Code, 2018 Edition ge Programs: 214-RICR-40-00-1 2-50-10-1 g Animal Care Facilities: 250-RICR-40-05-4 260-RICR-30-10-1	21 2021 1	 ARCHITECTS Saccoccio &
mal Welfare Act and Animal Welfare Regulations"	2017 FIRE CODE	Associates, Inc.
CLASSIFICATIONS	CLASSIFICATIONS OF OCCUPANCY: Chapt 12     Event Pavilion: New Assembly	1085 Park Avenue         tel 401.942.7970           Cranston, Rhode Island         fax 401.942.7975           02910
Actual Actual nt 30 feet height 1 stories 7,575 sf SSIFICATION AG BUILDING ELEMENTS 5-B Event Pavilion 0 hr 0 hr	<ul> <li>FINISHES: WALLS &amp; CEILINGS: Chapter 12 New Assembly Occupancy</li> <li>Finishes: Wall &amp; Ceilings Exits - Class A or B, other Class A or B or C</li> <li>FINISHES: FLOORS: Chapter 14 New Assembly Occupancy</li> <li>Finishes: Floor Exits - Class II</li> <li>NEW ASSEMBLY A-2: Chapt 12 - Pavilion</li> <li>Construction Type V-000, sprinklered - Table 12.1.6</li> <li>Table Storage: low combustibility materials, rated walls not required 12.3.2.1.1</li> </ul>	Consultant
EILING FINISH MS		Education Center & Pavilion
tchen/ Mech-Stor /: 5 occupants = 332 occupants		
equired Provided inches 171 inches		
with accessibility requirements		ROGER WILLIAMS PARK ZOOO 1000 ELMWOOD AVENUE, PROVIDENCE, RI 02907
		Revision Schedule         Revision         Number       Revision Date
		ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE
ODE:		EVENT PAVILION
<b>cr 24</b> " below / 2.22		CODE PLAN
auto light controls auto light controls		DRAWN BY: KR JOB NUMBER: 1805 CHECKED BY: MS DATE: 06/15/202
avilion d Proposed 4 3 3 1		G1.1
		SHEET: OF:



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

#### GENERAL NOTES:

THE CONTRACTOR/S SHALL:
. UNDERSTAND THAT THE TERM "PROVIDE" AS LISTED ON THE ARCHITECTURAL DRAWINGS SHALL MEAN "FURNISH AND INSTALL".
2. 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.
3. 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.
4. 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.
O. 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.
I I. 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.

#### 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.

30" Flush Control 15"-17"

12" Toe Clearance

36"

12"-17"

17"-19"

14"

FTG = FOOTING GA = GAUGE

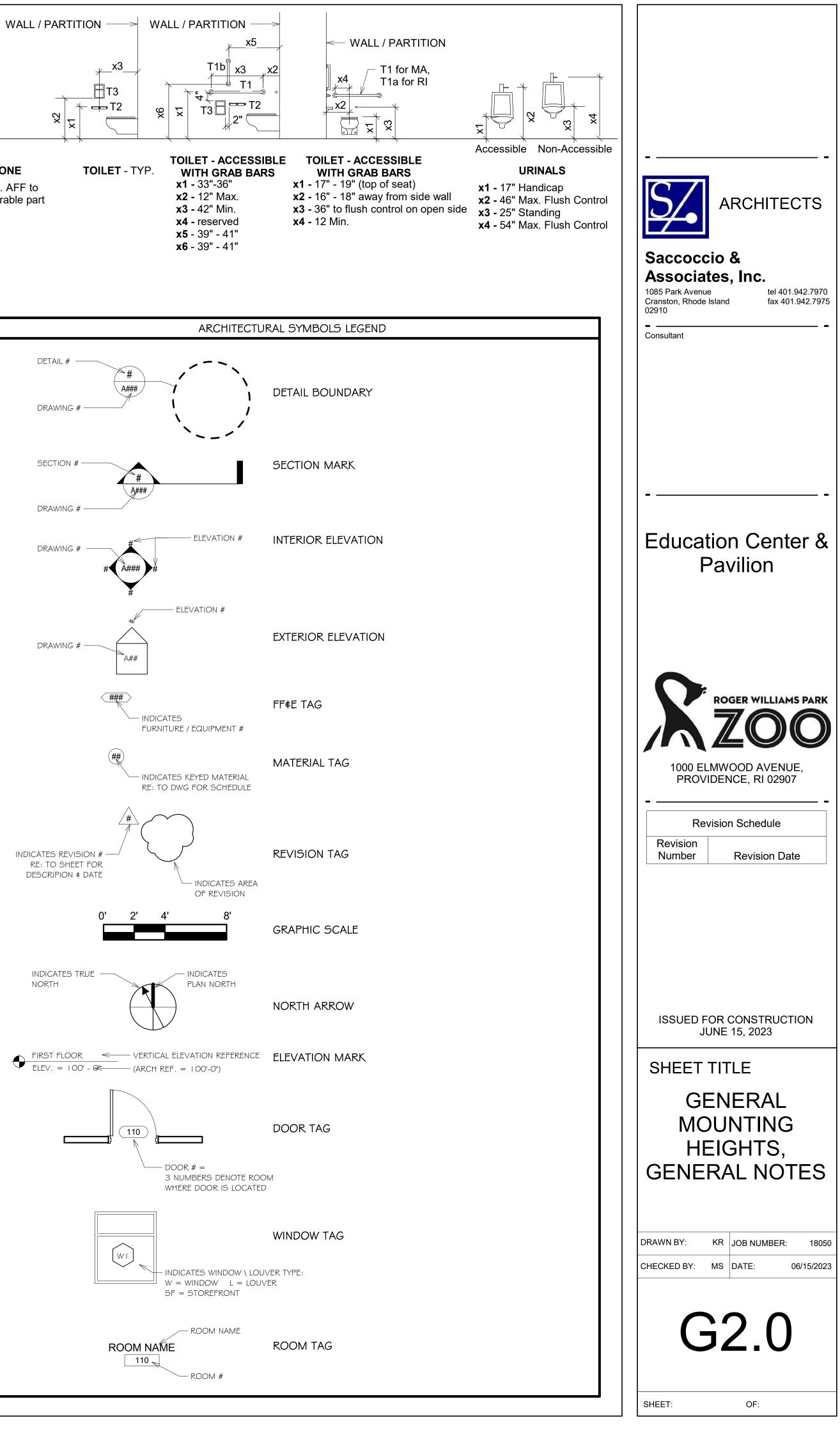
60" On Center

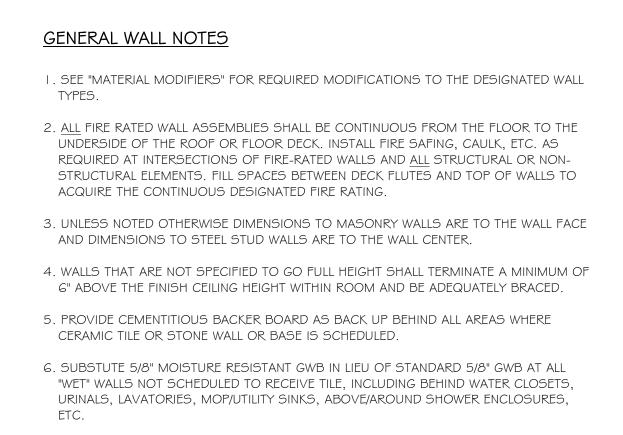
34" Max. To Bottom Edge

15"-48" (ADA & non ADA)

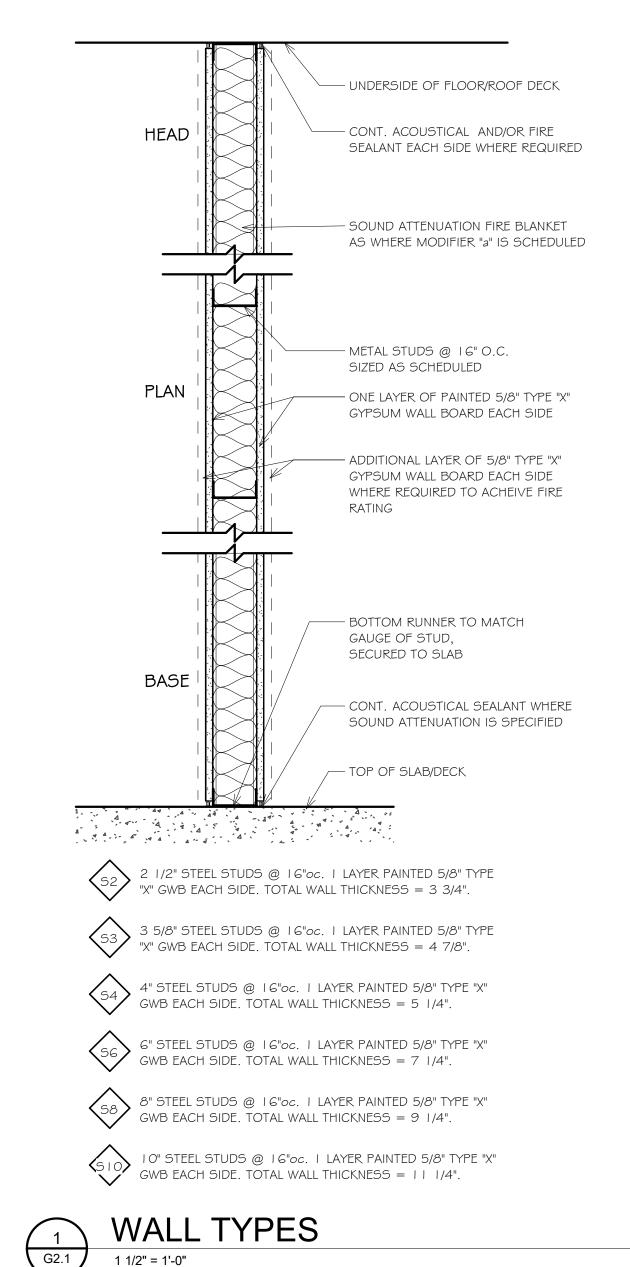
de Wall 15"-18" Away From Side Wall

ARCHIT	ECTURAL ABBREVIATION L	_EGEND
EDED	GALV = GALVANIZED	RO = ROUGH OPENING
AL CEILING TILE	GB = GRAB BAR	SF = SQUARE FOOT/FEET
CAL CEILING TILE-TEGULAR	GC = GENERAL CONTRACTOR	S¢F = STAIN ¢ FINISH
IISH FLOOR	GLU.LAM = GLUE LAMINATED	SDT = STATIC DISSIPATING TILE
IM	GWB = GYPSUM WALL BOARD	SEAL = SEALED CONCRETE
IOUS BACKER BOARD	GHM = GALVANIZED HOLLOW METAL	SGB = SUSPENDED GYPSUM BOARD
DINT	HB = HOSE BIBB	SIM = SIMILAR
	HM = HOLLOW METAL	SIP = STRUCTURAL INSULATED PANEL
E MASONRY UNIT(S)	HORIZ = HORIZONTAL	SQ = SQUARE
	HR = HOUR	SS = STAINLESS STEEL
TE	HVAC = HEATING/VENTILATING/AIR CONDITIONING	STL = STEEL
RUCTION	ID = INSIDE DIAMETER	STOR = STORAGE
DR	INSUL = INSULATED	STRUC = STRUCTURAL
LE	INT = INTERIOR	SV = SHEET VINYL
	JAN = JANITOR	SWG = SPECIAL WALL GLAZE
ILE	JT = JOINT	T¢G = TONGUE ¢ GROOVE
6H/DEMOLITION	LAM = LAMINATE	TEMP = TEMPERED
	LAV = LAVATORY	TOS = TOP OF STEEL
N	LWT = LIGHTWEIGHT	TV = TELEVISION
	MAS = MASONRY	TOW = TOP OF WALL
	MAT = MATERIAL	TYP = TYPICAL
WALL PROTECTION	MAX = MAXIMUM	UON = UNLESS OTHERWISE NOTED
CARPET TILE	MECH = MECHANICAL	VAS = VERIFY AT SITE
JOINT	MIN = MINIMUM	VB = VINYL BASE
ELECTRICAL	MISC = MISCELLANEOUS	VCT = VINYL COMPOSITION TILE
	MFR = MANUFACTURER	VERT = VERTICAL
	MO = MASONRY OPENING	VIF = VERIFY IN FIELD
O REMAIN	MRT = MOISTURE RESISTANT TILE	VT = VINYL TILE
	NIC = NOT IN CONTRACT	VWC = VINYL WALL COVERING
IN	NTS = NOT TO SCALE	W = WITH
UISHER	OC = ON CENTER	WC = WATER CLOSET
GUISHER ∉ CABINET	OD = OUTSIDE DIAMETER	WD = WOOD
DR	OFF = OFFICE	WH = WATER HEATER
E CABINET	OPNG = OPENING	W/O = WITHOUT
	OPP = OPPOSITE	WP = WATERPROOF(ING)
	OTS = OPEN TO STRUCTURE	WR = WATER RESISTANT
CONCRETE	PLAM = PLASTIC LAMINATE	WWM = WELDED WIRE MESH
STUD	PT = PAINT or PRESSURE TREATED	RD = ROOF DRAIN
	PV = PHOTOVOLTAIC PANELS	REBAR = REINFORCEMENT BAR(S)
S REINFORCED PANEL	PVC = POLYVINYL CHLORIDE	REINF = REINFORCEMENT
D SAFETY GLASS	QT = QUARRY TILE	RH = ROBE HOOK
	R = RISER	RM = ROOM
	RAD = RADIUS	RMK = REMARK
	RAF = RESILIENT ATHLETIC FLOORING	





- 7. ALL EXPOSED CORNERS OF CMU WALLS SHALL HAVE A 1" RADIUS.
- 8. ALL STEEL STUD WALLS THAT CONTINUE TO THE UNDERSIDE OF DECK SHALL HAVE DEFLECTION TRACKS AS REQUIRED.
- 9. ALL WOOD BLOCKING IS TO BE FIRE-RESISTANT.
- 10. ALL WOOD COMING IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- I I. 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.
- I 2. 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.
- 13. ANY WALL NOT HAVING A WALL-TYPE TAG SHALL BE CONSIDERED TO BE AT A MINIMUM 3 5/8" STEEL STUDS @ 16" OC WITH 5/8" TYPE X' GWB ON EACH SIDE. NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTING ANY UNDESIGNATED WALL.
- 14. 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" OC VERTICALLY.



MATERIAL MODIFIERS (also see general wall notes)

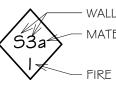
"a" =	FILL STUD CAVITY FULL HE ASSEMBLIES HAVING THIS THE UNDERSIDE OF THE R AS REQUIRED FOR CONTIN WALLS SHALL NOT BE BAC
"b" =	OMIT GWB ON ONE SIDE.

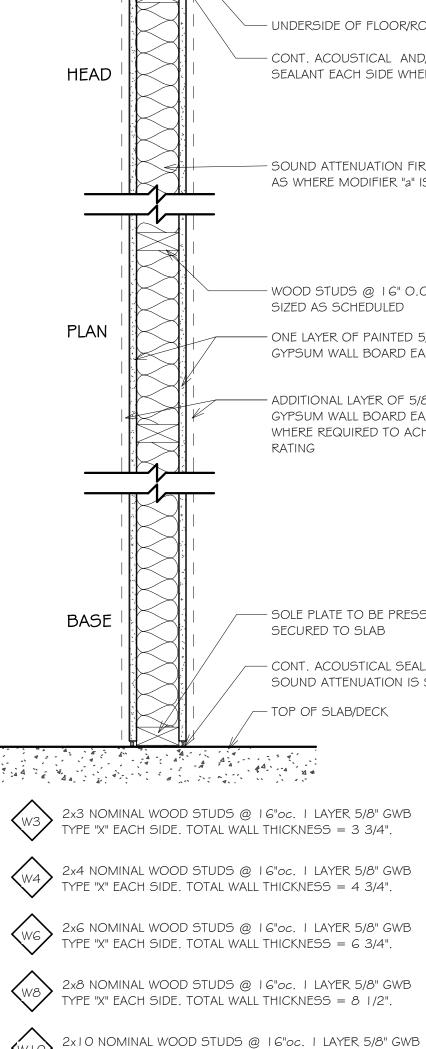
- NOTED OTHERWISE.
- WALLS, FLOOR/ROOF DECKS, ETC.

#### FIRE RATING MODIFIERS (also see general wall notes)

- "|" = WALL TO HAVE A MINIMUM OF ONE 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.
- "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.

#### WALL TAG LEGEND





FILL STUD CAVITY FULL HEIGHT WITH SOUND ATTENUATION BATTING. WALL S MODIFIER SHALL BE CONTINUOUS FROM THE FLOOR TO ROOF OR FLOOR DECK ABOVE. PROVIDE CAULKING/SEALANT INUOUS MEMBRANE. ELECTRICAL OUTLETS IN ACOUSTICAL CK-TO-BACK.

"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 WALL/S. 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

"**f**" = ADD 7/8" METAL FURRING VERTICALLY @ 16" OC 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.

"q" = PARTITION TO BE A SMOKE ENCLOSURE AND SHALL BE COMPLETELY SEALED WITH AN APPROVED SEALANT AT ENTIRE PERIMETER INCLUDING THE INTERSECTIONS OF ALL

UL DESIGN #U415 SYSTEM "A" WHERE 2 1/2" C-H SHAPED STEEL STUDS ARE USED.

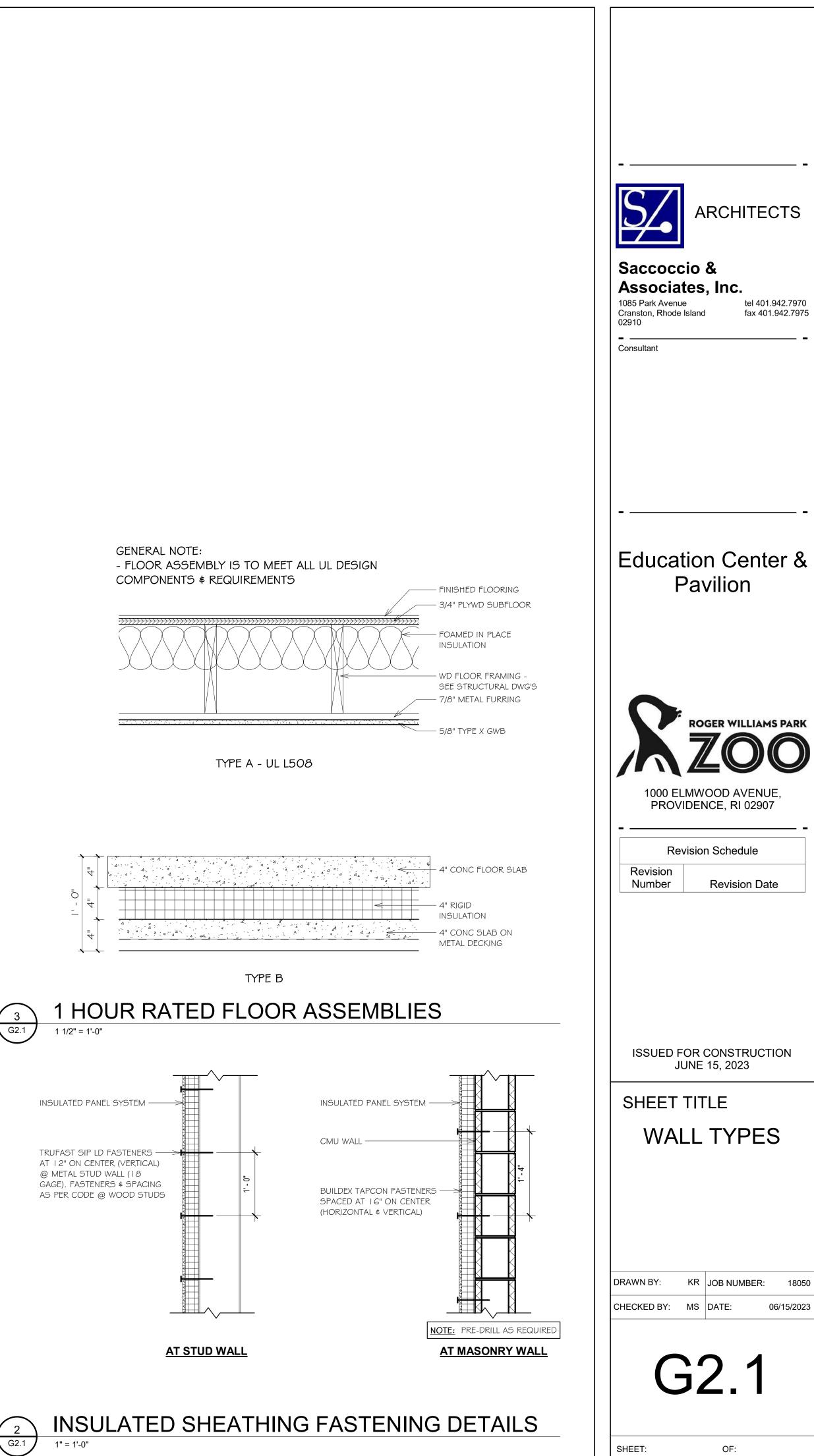
UL DESIGN #U906 WHERE 6" NOMINAL CMU IS USED.

- WALL TYPE DESIGNATION - MATERIAL MODIFIER(S)

- COMPRESSIBLE FIRESTOPPING - UNDERSIDE OF FLOOR/ROOF DECK - FIRE RATING MODIFIER SEE STRUCTURAL DRAWINGS, WHERE NOT IN STRUCTURAL PROVIDE LATERAL SUPPORT -4"X4"X1/4"X10" LONG GALVANIZED STEEL CLIP ANGLE, STAGGERED @ 2'-6" O.C. SECURE EACH SIDE OF THE WALL WITH EXPANSION ANCHORS (TYPICAL) SEE STRUCTURAL DRAWING FOR GROUT - UNDERSIDE OF FLOOR/ROOF DECK AND REINFORCING REQUIREMENTS - CONT. ACOUSTICAL AND/OR FIRE HEAD Xeleľ - BOND BEAM SEALANT EACH SIDE WHERE REQUIRED - SOUND ATTENUATION FIRE BLANKET AS WHERE MODIFIER "a" IS SCHEDULED PREMOLDED JOINT FILLER AND SEALANT (TYP.) SEALANT AND FILLER TO HAVE FIRESTOPPING SYSTEM @ RATED WALLS TO MATCH WALL RATING WOOD STUDS @ 16" O.C. SIZED AS SCHEDULED - ONE LAYER OF PAINTED 5/8" TYPE "X" - FURRING AND PAINTED GWB WHERE GYPSUM WALL BOARD EACH SIDE PLAN MODIFIER "f" IS SCHEDULED - ADDITIONAL LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD EACH SIDE WHERE REQUIRED TO ACHEIVE FIRE RATING - DOUBLE FACED CONCRETE MASONRY BLOCK. SIZED AS SCHEDULED 3 ` G2.1 1 1/2" = 1'-0" - SEE STRUCTURAL DRAWINGS, WHERE NOT IN STRUCTURAL PROVIDE #9 REINFORCING TRUSS - SOLE PLATE TO BE PRESSURE TREATED, TYPE REINFORCING EVERY OTHER COURSE BASE SECURED TO SLAB - SEE STRUCTURAL DRAWING FOR GROUT - CONT. ACOUSTICAL SEALANT WHERE AND REINFORCING REQUIREMENTS SOUND ATTENUATION IS SPECIFIED INSULATED PANEL SYSTEM -- TOP OF SLAB/DECK TOP OF SLAB/DECK @ METAL STUD WALL (18 (M4) 4" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS. MG 6" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS. M8 8" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS. I O" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS.

TYPE "X" EACH SIDE. TOTAL WALL THICKNESS = 10 1/2".

I 2" NOMINAL CMU. SEE STRUCTURAL DWGS FOR REINFORCEMENT REQUIREMENTS.



# GENERAL CONSTRUCTION NOTES:

- 1. 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.
- 2. SITEWORK 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 (NARRAGANTSETT BAY COMMISSION) SEWER CONNECTION, PROVIDENCE WATER SERVICE CONNECTION, RIDEM RIPDES/STORMWATER APPROVAL.
- 3. 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.
- 4. 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.
- 5. 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 CONTRACTORS 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.
- 6. 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.
- 7.1. 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", OR AT HTTPS: //WWW.PROVIDENCERI.GOV/WP-CONTENT/ UPLOADS/2019/06/PROVIDENCE-DPW-STANDARD-DETAILS.PDF.
- 7.2. 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.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT, DRIVEWAYS, SIDEWALKS, WALL, CURBS, ETC. DAMAGED DURING CONSTRUCTION WITH MATCHING MATERIALS.
- 9. 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.
- 10. 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.
- 11. 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 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.
- 12. 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.
- 13. 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.)
- 14. ALL RI HIGHWAY BOUNDS AND PERMANENT SURVEY MARKERS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.
- 15. 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.
- 16. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2003 INCLUDING ALL REVISIONS.
- 17. REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL PLANS FOR ALL BUILDING INFORMATION.
- 18. THERE ARE KNOWN WETLAND AREAS ON OR ADJACENT TO THE PROJECT SITE. THE WETLANDS INDICATED HAVE BEEN FLAGGED IN THE FIELD.
- 19. ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED ON THE SITE PLAN.
- 20. 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.
- 21. PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION. SHOP DRAWINGS OF PRECAST STRUCTURES SHALL BE REVIEWED BY THE ENGINEER AND APPROVED BEFORE USE.
- 22. 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:

- 1. 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, ET. 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 PAST CONSTRUCTION WITHIN AND ADJACENT TO THE WORK ZONE. FIELD SURVEY WAS PREFORMED BY GAROFALO & ASSOCIATES WITHIN THE ZEBRA EXHIBIT IN OCTOBER, 2019 TO SUPPLEMENT THE BASE MAPPING PROVIDED.
- 2. 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 TOPOGRAPHIC SURVEY ACCURACY

- CLASS III T-2
- 3. SITEWORK HAS BEEN PERFORMED ON AND IN THE IMMEDIATE VICITITY 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

- WHETHER OR NOT SHOWN ON THE DRAWINGS.
- EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.
- DISCREPANCIES OR ERRORS DISCOVERED IN THE PLANS.
- BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.

- ENGINEER.
- THE LOCAL FIRE MARSHALL AND/OR THE BUILDING OFFICIAL.
- III RCP WITH "O" RING GASKET JOINTS
- ON ALL UNDERGROUND ELECTRIC.
- ELECTRIC.
- SITE LIGHTING PLANS PLANS FOR INSTALLATION REQUIREMENTS.

### **GENERAL DRAINAGE & GRADING NOTES:**

- IS WATERTIGHT.
- GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- FIT AND CONTINUOUS GRADE.
- PAVED AREAS.
- UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- ALL BUILDING ENTRANCES.
- DIRECTION.
- 8. INSTALL SILT SACKS AT ALL INLETS AFTER INSTALLATION

1. 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

2. 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

3. 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

4. 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

5. 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.

6. 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 FILL THICKNESS. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF PROJECT APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

7. 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.

8. 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.

9. 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

10. ALL FIRE AND PLUMBING FIXTURES MUST CONFORM TO LOCAL SPECIFICATIONS AND AS STIPULATED BY

11. 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 c900 BLUE BRUTE PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF CROSSING.

12. 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

13. 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.

14. 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

15. 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

16. SITE LIGHTING ELEMENTS ARE SHOWN FOR APPROXIMATE ONLY. SITE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WORKING OF LIGHT IN LOCATIONS INDICATED. REFER TO

1. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE

2. 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

3. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH

4. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND

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

6. 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 ADAAG PARKING SPACES AND LOADING SPACES SHALL BE 2% MAXIMUM SLOPE IN ANY

#### 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 FULL 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)

- 1. 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.
- 2. PAVED AREAS: PARKING LOTS. PUBLIC & PRIVATE ROADWAYS AND GUTTERS SHALL BE SWEPT CLEAN OF ALL SEDIMENT & DEBRIS. SWEEPING & REMOVAL OF DEBRIS SHALL BE PERFORMED ON A WEEKLY BASIS AT A MINIMUM.
- 3. 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.
- 4. 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.
- 5. 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' (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 SWEPT CLEAN OF ALL SEDIMENT AND DEBRIS ON BI-ANNUAL BASIS IN SPRING AND FALL OF EACH YEAR. OR AS NECESSARY.
- 2. 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.

3. 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.

- 4. SUBSURFACE INFILTRATION BASINS AND ISOLATOR ROWS:
- SUBSURFACE INFILTRATION BASIN SHALL BE INSPECTED ON A BIANNUAL 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):

- 1. THE INFILTRATION AREAS SHALL NOT BE USED AS A CONSTRUCTION SEDIMENTATION SYSTEM.
- 2. 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.
- 3. 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.
- 4. 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.provide	nceri.gov/wp-content/uploads/2019/06/Providence-DPW-S	Standard-De	ails.pdf	CI
BCP	BITUMINOUS CONCRETE PAVEMENT 2" CLASS 12.5 HMA SURFACE	7.3.0	GRANITE CURB	CLDI CLF CTE
	2" CLASS 12.5 HMA SURFACE 3" CLASS 19 HMA BASE 12" GRAVEL BORROW SUBBASE	7.6.0	CURB SETTING DETAIL	D.I.
(12"W)	12" PAVEMENT MARKINGS-CROSSWALKS & STOP BAR	9.9.0	CONSTRUCTION ACCESSS	ESHWT ETR
LS	4" LOAM AND SEEDING, TYPE 2	20.1.0	PAVEMENT MARKINGS-ARROWS AND ONLY	EX.
6.1.0	LIGHT – DUTY ROUND FRAME AND COVER	43.1.0	CEMENT CONCRETE SIDEWALK	F&I HDPE
6.2.1	HEAVY - DUTY ROUND FRAME AND COVER	43.3.0	WHEELCHAIL RAMP	INV. MTE
6.3.2	HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)	43.3.1	WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS	NIC NTS
6.4.0	ROUND FRAME AND GATE	48.1.0	DETECTIBLE WARNING PANEL PLACEMENT	PVC
7.1.0	PRECAST CONCRETE CURB	CLF	CHAIN LINK FENCE	rcp Vif
		DMF	DECORATIVE METAL FENCE	WQS

## SITE LEGEND

# EXISTING \_\_\_\_\_ G \_\_\_\_\_ \_\_\_\_\_ F \_\_\_\_\_ \_\_\_\_\_ G \_\_\_\_\_ \_\_\_\_\_ OHW \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ S \_\_\_\_\_ \_\_\_\_\_\_ SI \_\_\_\_\_ \_\_\_\_\_ T \_\_\_\_\_ \_\_\_\_\_ W \_\_\_\_\_ ×64.0 ×64.0(BC) ×64.5(TC) 64.5(BW) 64.5(TW) BCC CCB PCC PCSMC SGC \_\_\_\_\_ 🗌 CB CB(DG) CTB 🗠 $\bigcirc$ DMH SMH $\bigcirc$ Ю SEV ₯FDC

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CTB ► ① DMH FES ⑤ SMH *℃
CTB ► ① DMH FES SMH <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>3</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>6</sup> <sup>5</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>7</sup> <sup>7</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>7</sup> <sup>7</sup> <sup>7</sup> <sup>6</sup> <sup>6</sup> <sup>7</sup> <sup>7</sup> <sup>7</sup> <sup>7</sup> <sup>8</sup> <sup>8</sup> <sup>7</sup> <sup>8</sup> <sup>8</sup> <sup>8</sup> <sup>8</sup> <sup>8</sup> <sup>8</sup> <sup>8</sup> <sup>8</sup>
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CTB ► ① DMH FES ⑤ SMH <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>3</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>5</sup> <sup>6</sup> <sup>5</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>7</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup>
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CTB ► ① DMH FES SMH <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>3</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>6</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup>
CTB ► ① DMH FES ③ SMH <sup>1</sup> <sup>2</sup> <sup>3</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>5</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup>
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CTB ► ① DMH FES ③ SMH <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>3</sup> <sup>3</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>4</sup> <sup>5</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>5</sup> <sup>6</sup> <sup>6</sup> <sup>7</sup> <sup>7</sup> <sup>7</sup> <sup>8</sup> <sup>8</sup> <sup>8</sup> <sup>8</sup> <sup>8</sup> <sup>9</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>
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CTB ► ① DMH FES ③ SMH <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>3</sup> <sup>3</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>5</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup> <sup>4</sup>
CTB ► ① DMH FES ③ SMH <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup>
CTB ► ① DMH FES ③ SMH <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup>
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CTB ► ① DMH FES ③ SMH <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup> <sup>*</sup>
CTB ► ① DMH FES S SMH V C S SMH V C S S S MH V C S S S MH V C S S MH V C S S MH V C S S S MH V C S S S MH V C S S S MH V C S S S MH V C S S S MH V C S S S S MH V C S S S S S S MH V C S S S S S S S S S S S S S
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CTB D DMH FES SMH C C C SMH C C S SMH C C S S S S S S S S S S S S S
CTB O DMH FES S SMH C C C S SMH C C S S S MH C C S S S MH C C S S S MH C C S S S MH C C S S S MH C C S S S MH C C S S S MH C C S S S S S S S S S S S S S
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DESCRIPTION
CENTERLINE (LAYOUT) STORM DRAIN ELECTRIC (UNDERGROUND) FIRE SERVICE FOOTING 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

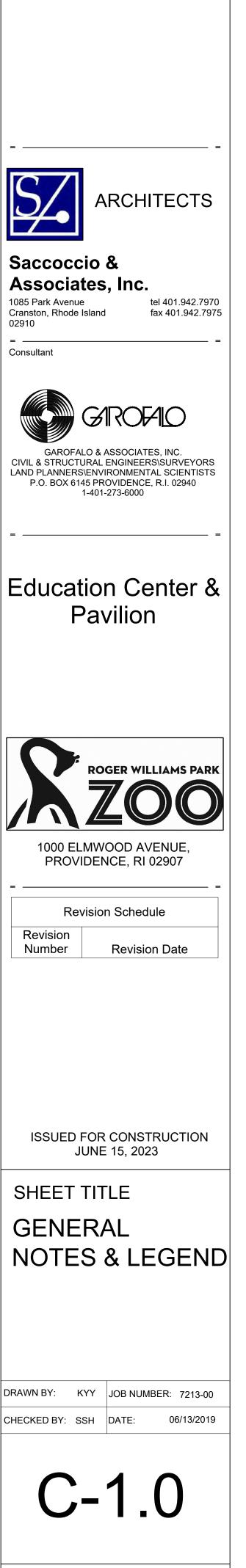
POST INDICATOR VALVE (PIV)

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 TTT PAVEMENT SAWCUT & MATCH TO EXISTING RIDOT/PROVIDENCE STD DETAIL REFERENCE

# **ABBREVIATIONS**

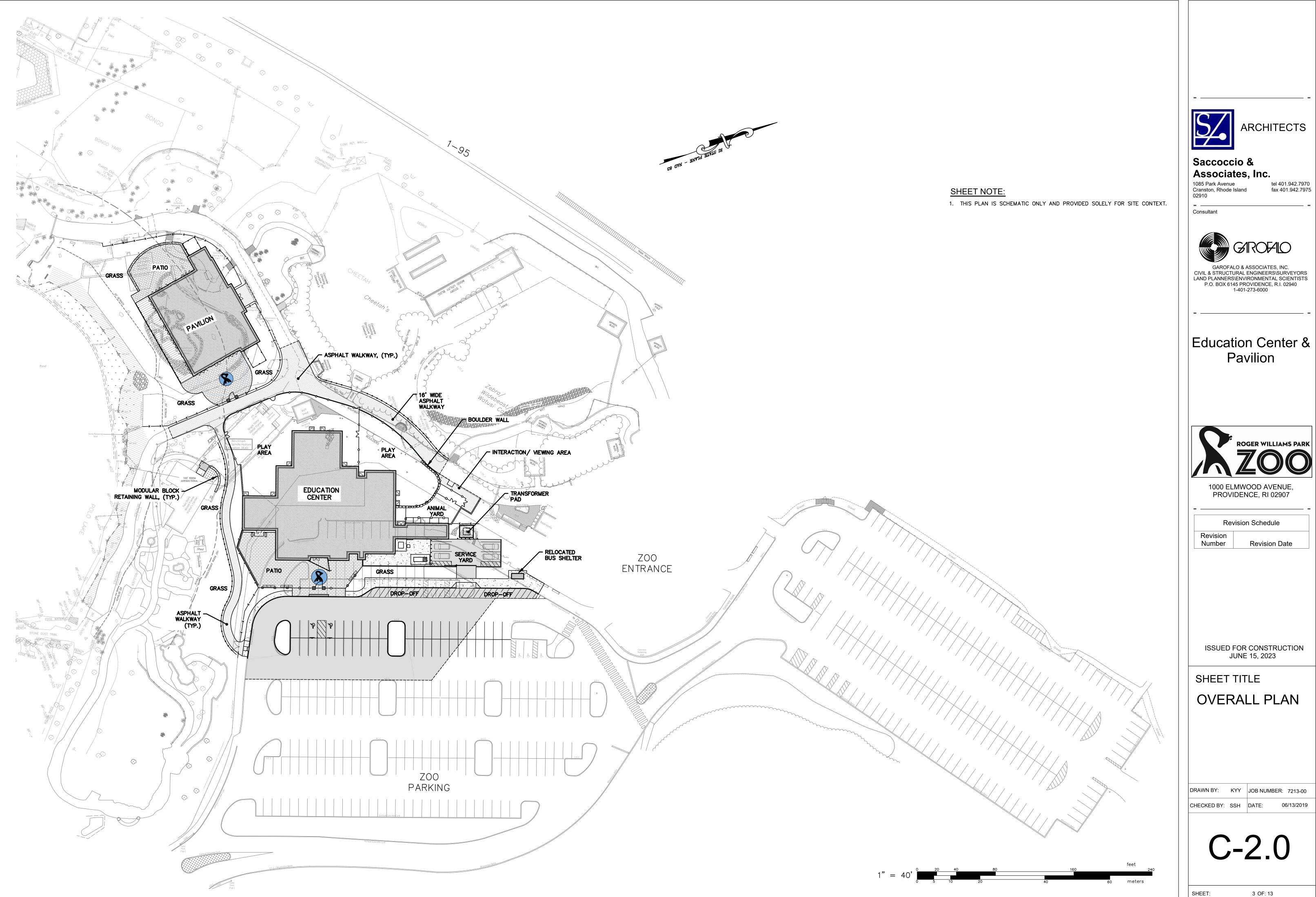
(X.X.X)

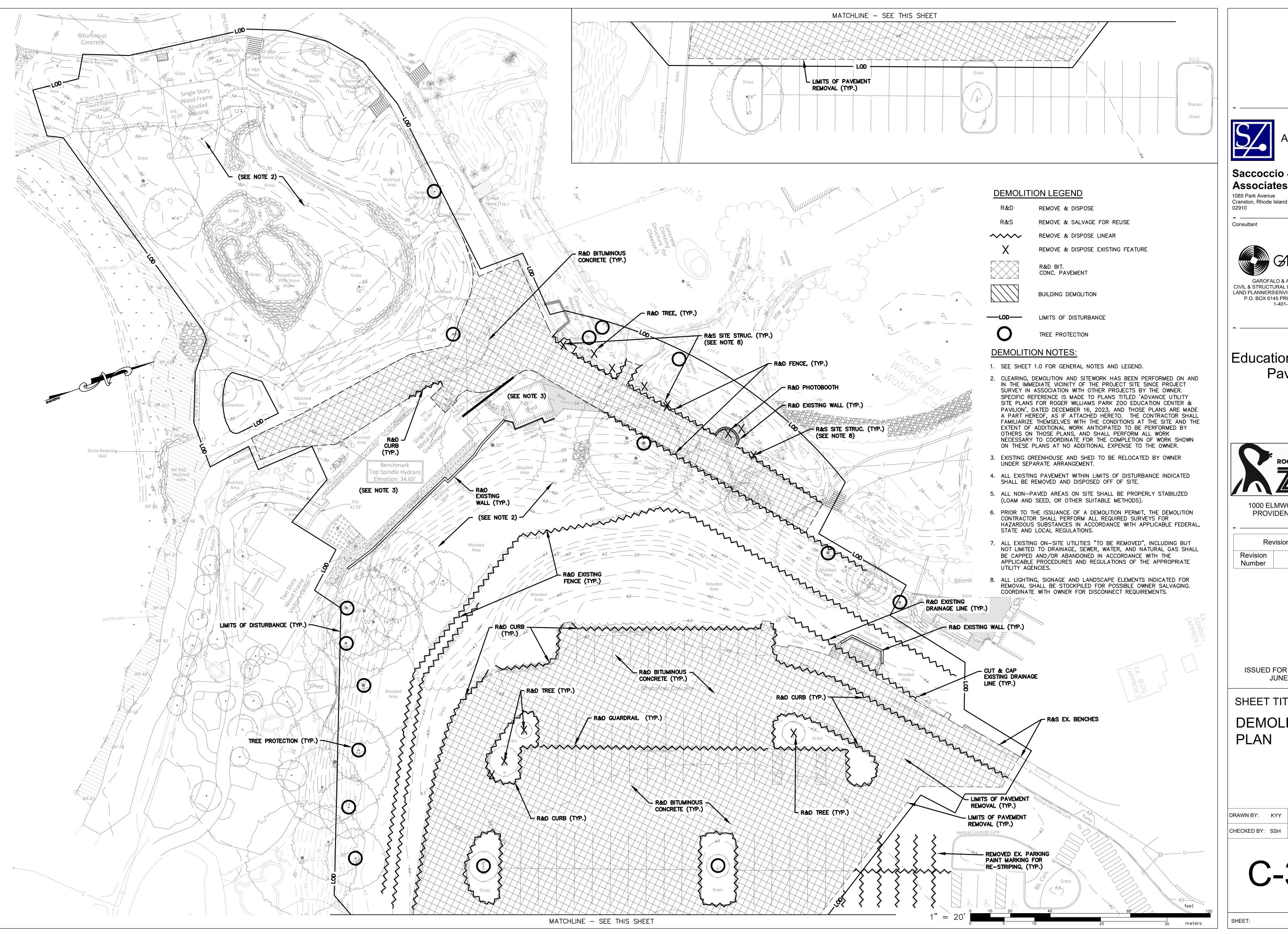
CAST IRON PIPE CEMENT LINED DUCTILE IRON PIPE CHAINLINK FENCE POINT OF CONNECTION TO EXISTING DUCTILE IRON PIPE ESTIMATED SEASONAL HIGH WATER TABLE EXISTING TO REMAIN EXISTING FURNISH AND INSTALL HIGH DENSITY POLYETHYLENE PIPE INVERT ELEVATION MATCH TO EXISTING NOT IN CONTRACT NOT TO SCALE POLYVINYL CHLORIDE PIPE REINFORCED CONCRETE PIPE VERIFY IN FIELD WATER QUALITY STRUCTURE



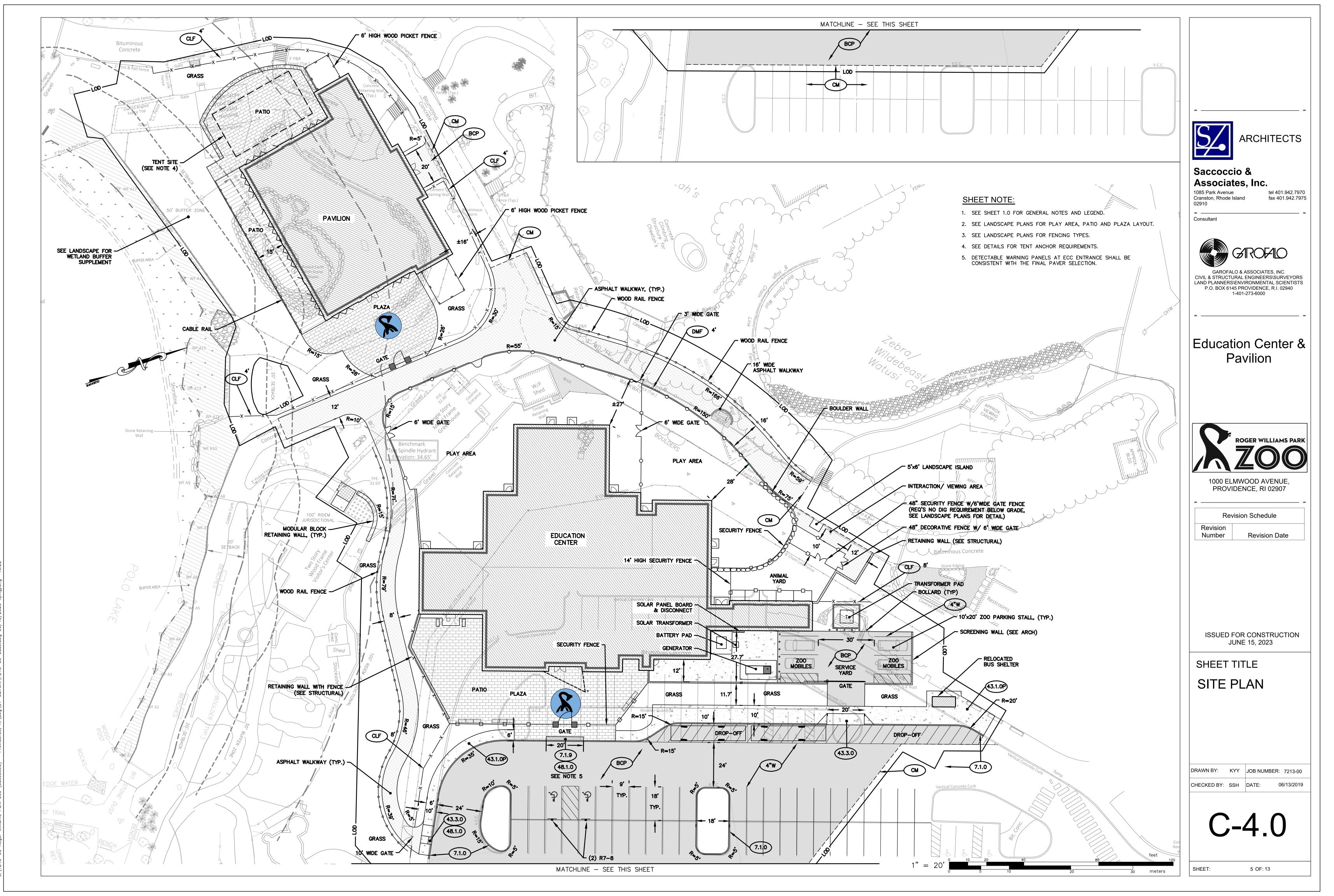
SHEET:

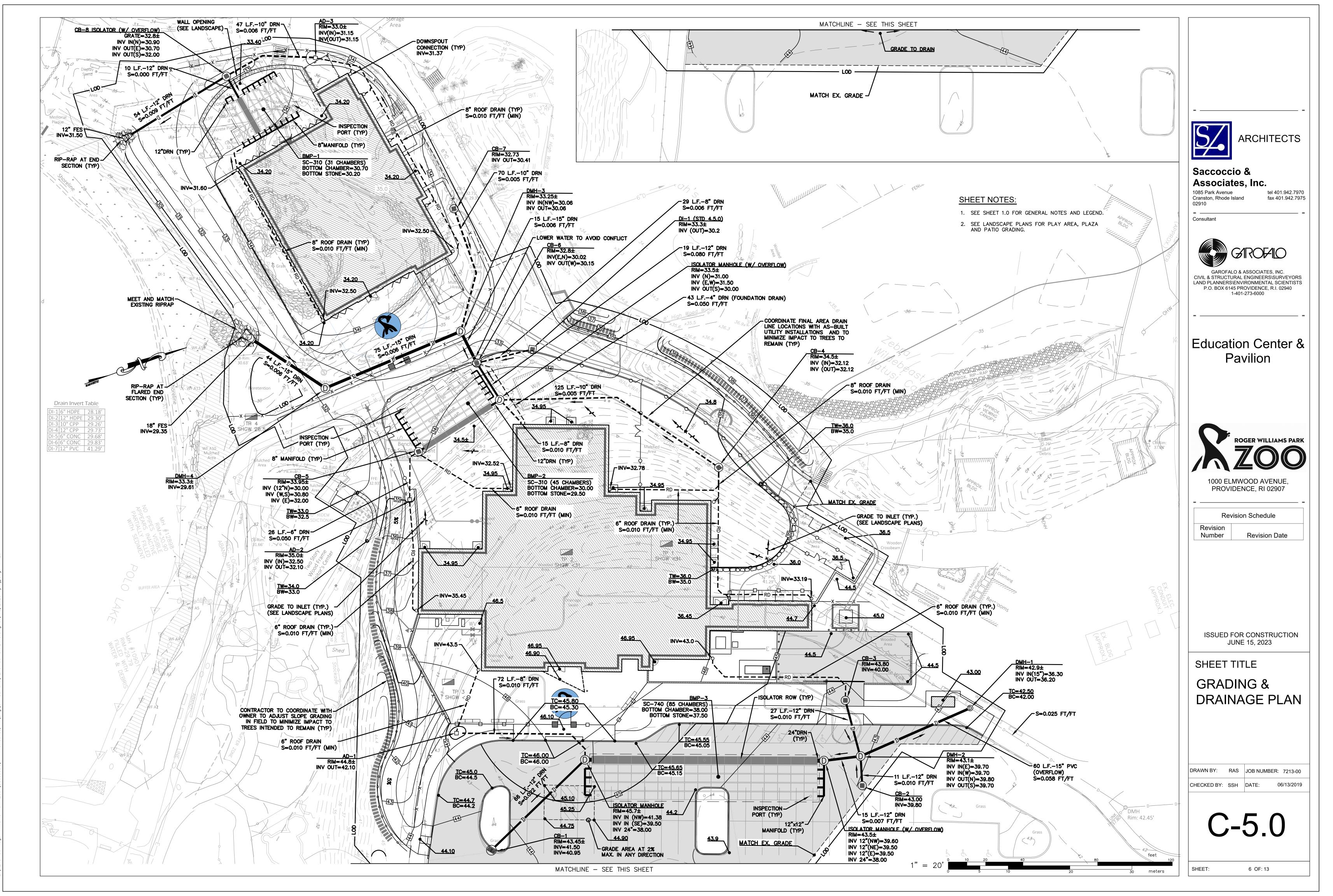
2 OF: 13

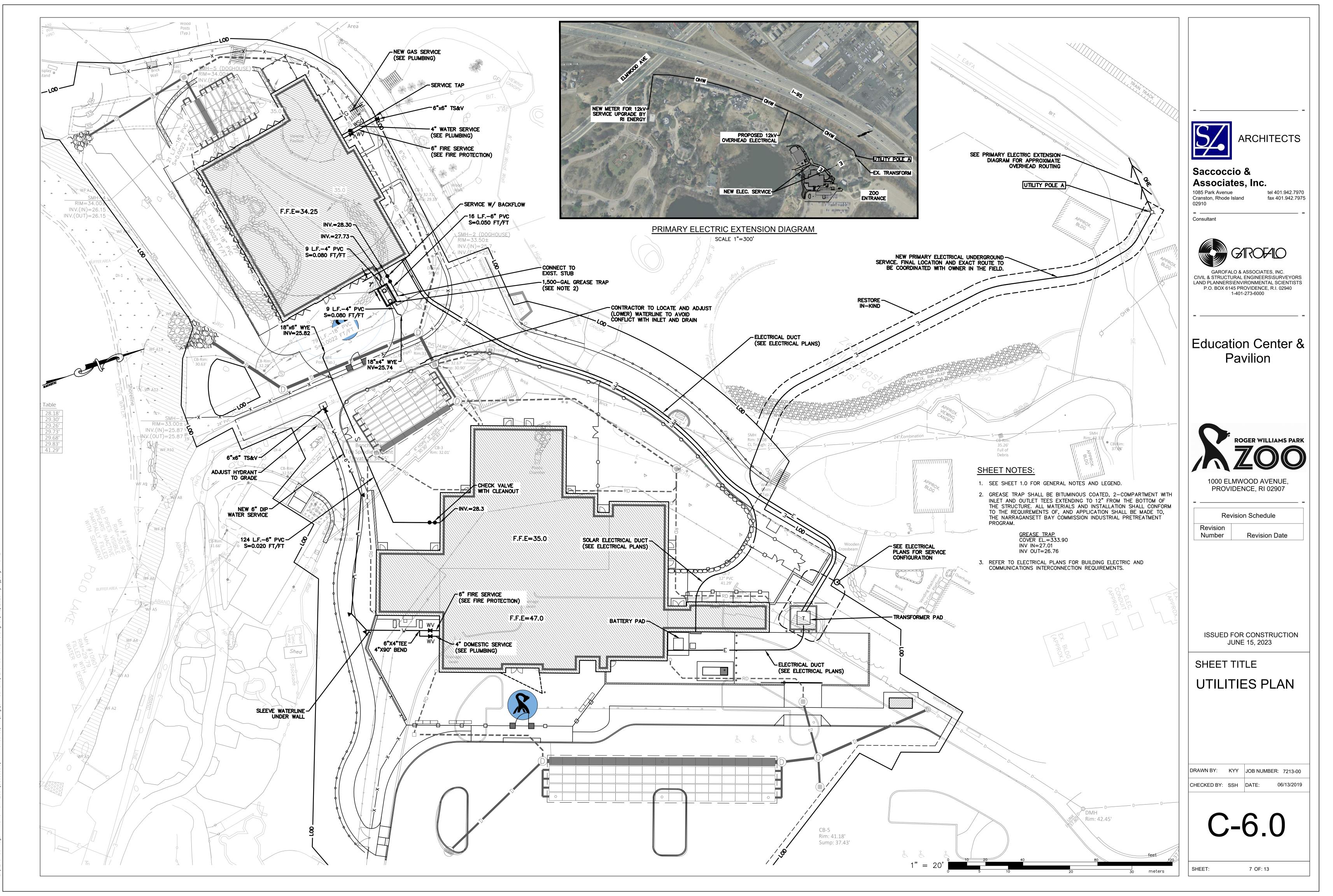


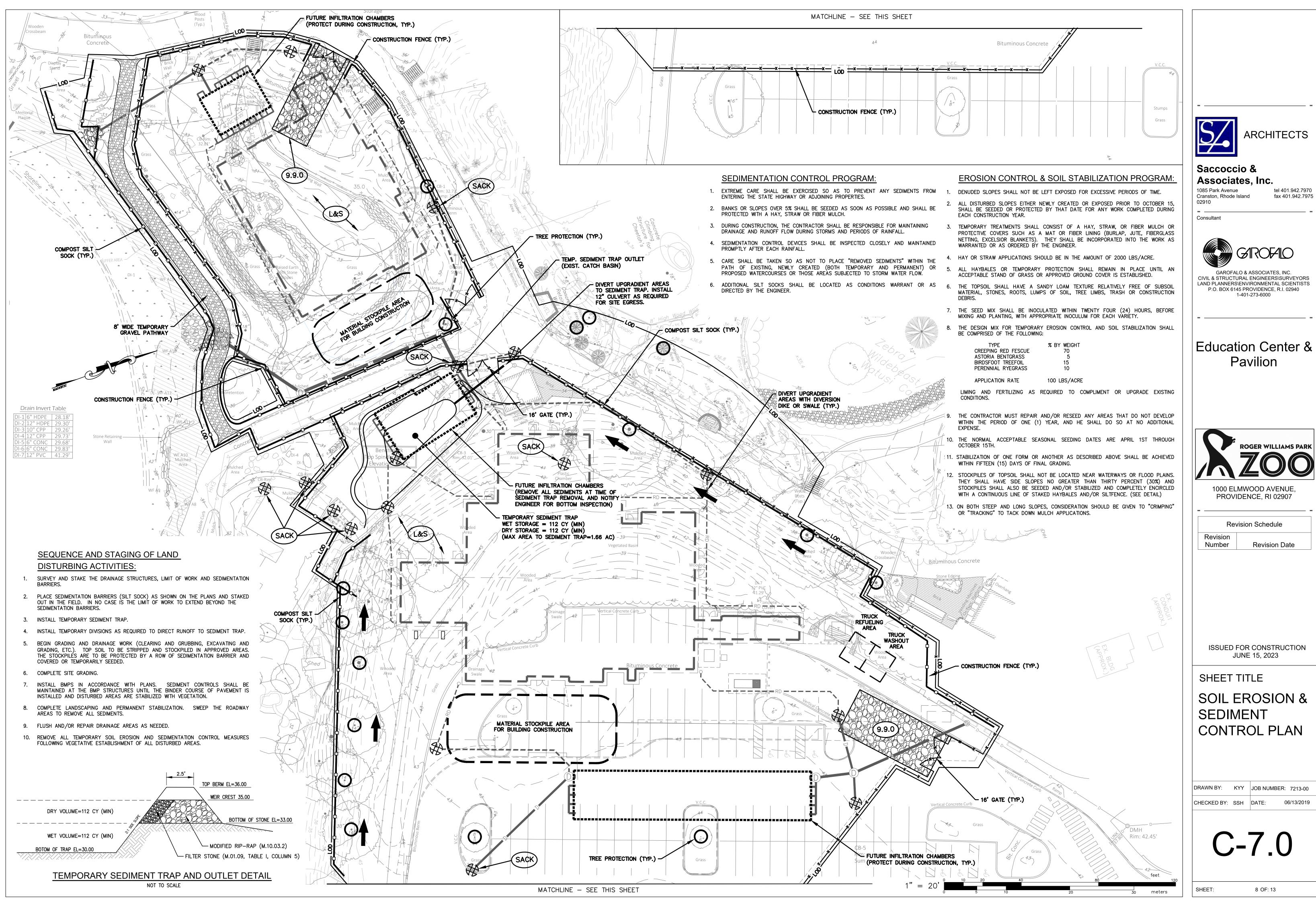


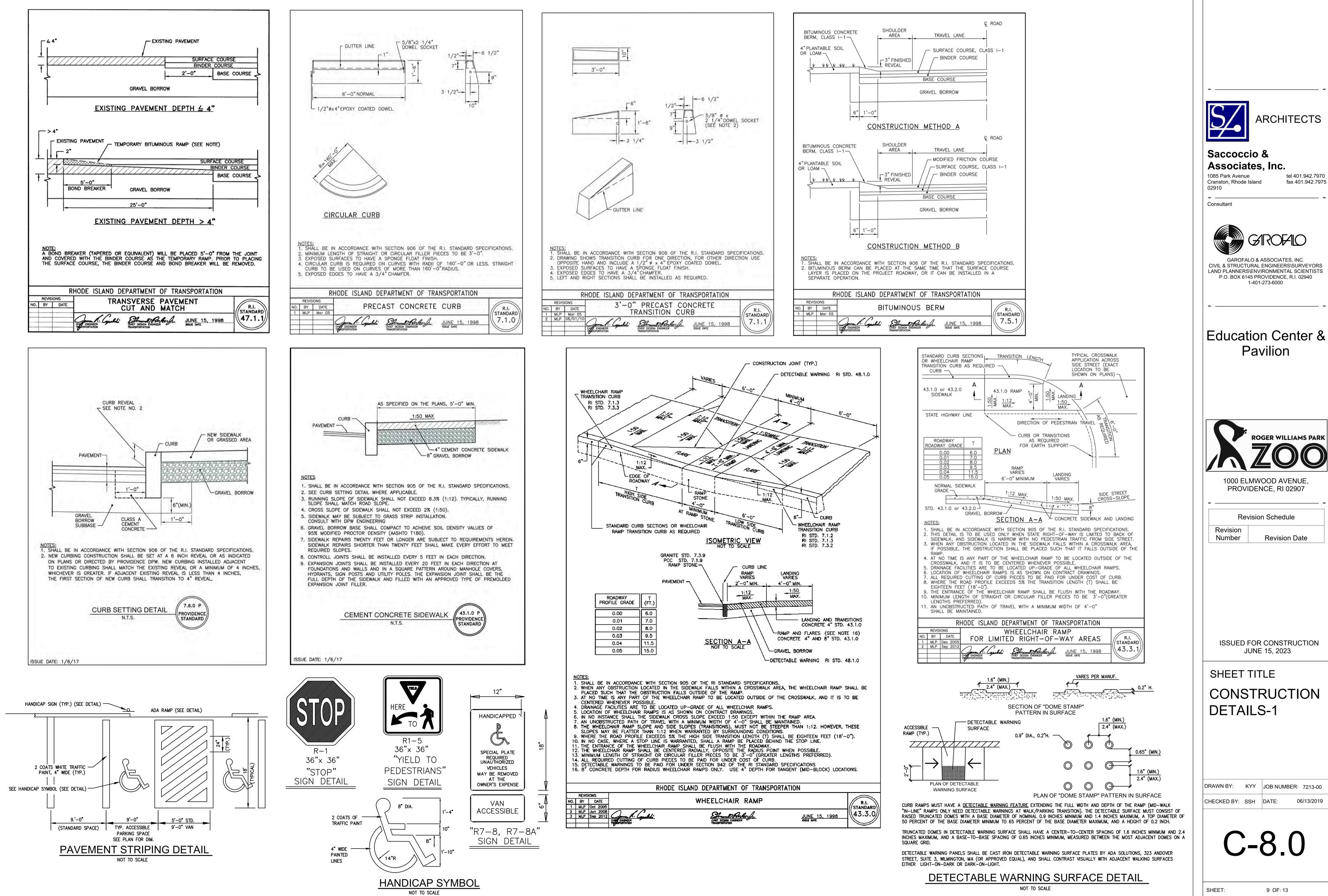
= =
S ARCHITECTS
Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910
GAROFALO & ASSOCIATES, INC. CIVIL & STRUCTURAL ENGINEERS\SURVEYORS LAND PLANNERS\ENVIRONMENTAL SCIENTISTS P.O. BOX 6145 PROVIDENCE, R.I. 02940 1-401-273-6000
Education Center & Pavilion
ROGER WILLIAMS PARK
1000 ELMWOOD AVENUE, PROVIDENCE, RI 02907
Revision Schedule Revision Number Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023
SHEET TITLE DEMOLITION PLAN
DRAWN BY: KYY JOB NUMBER: 7213-00 CHECKED BY: SSH DATE: 06/13/2019
C-3.0
SHEET: 4 OF: 13

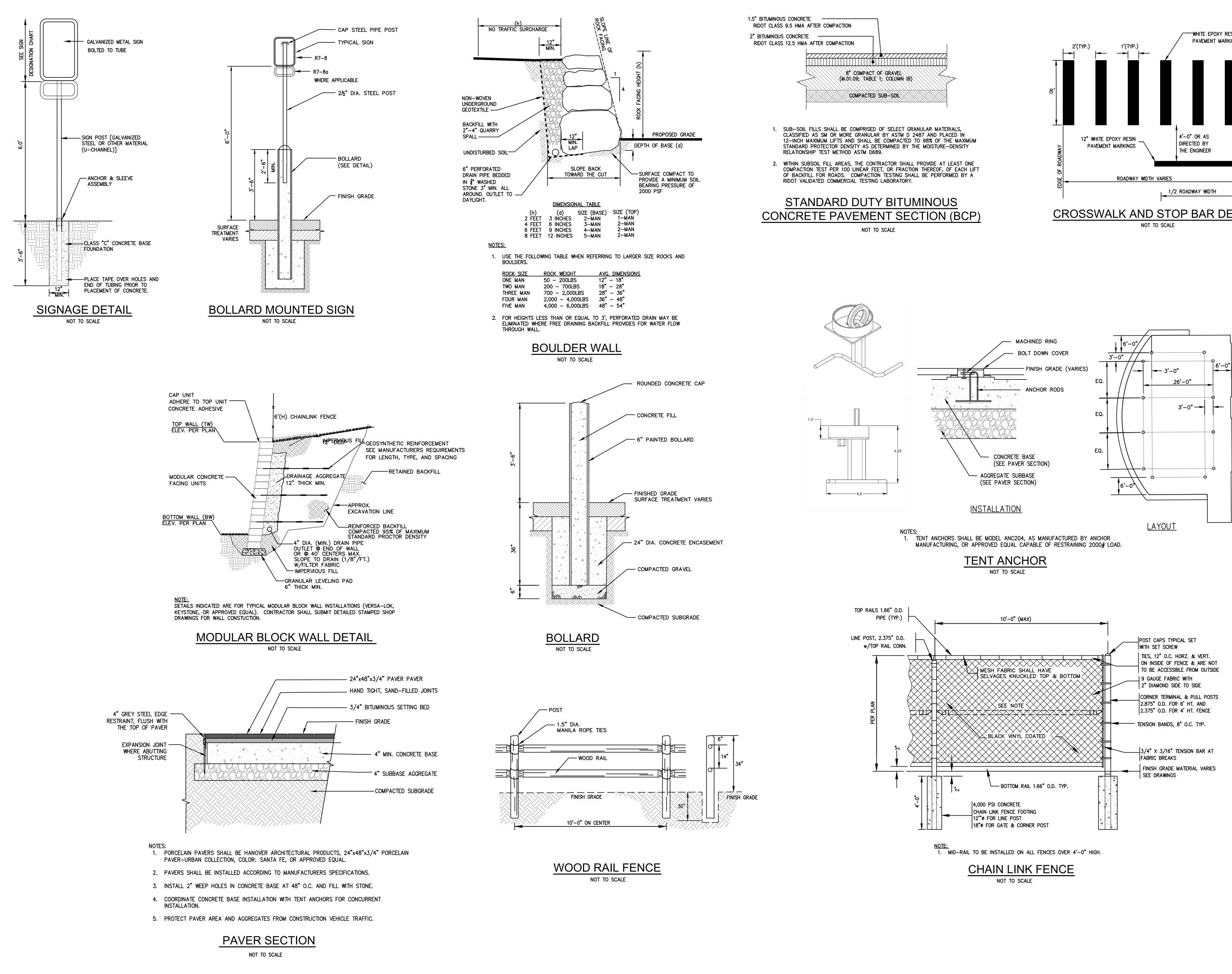


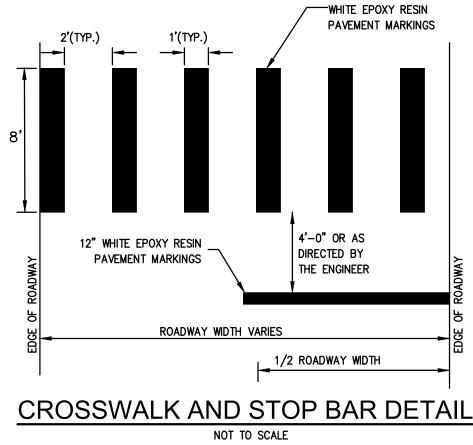


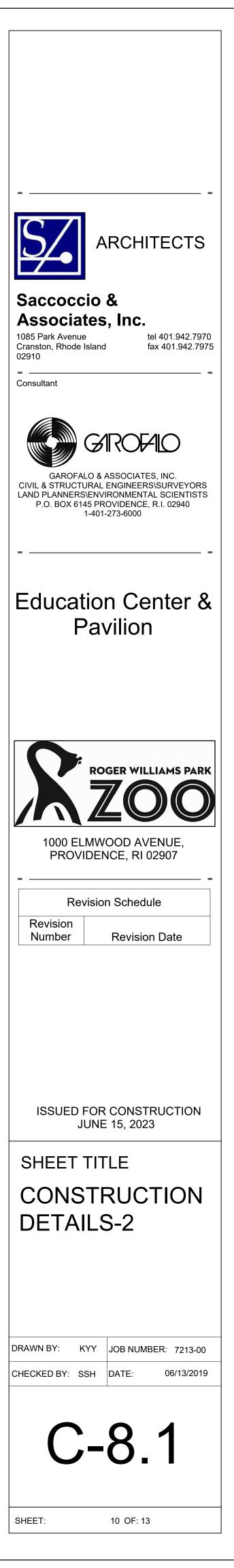


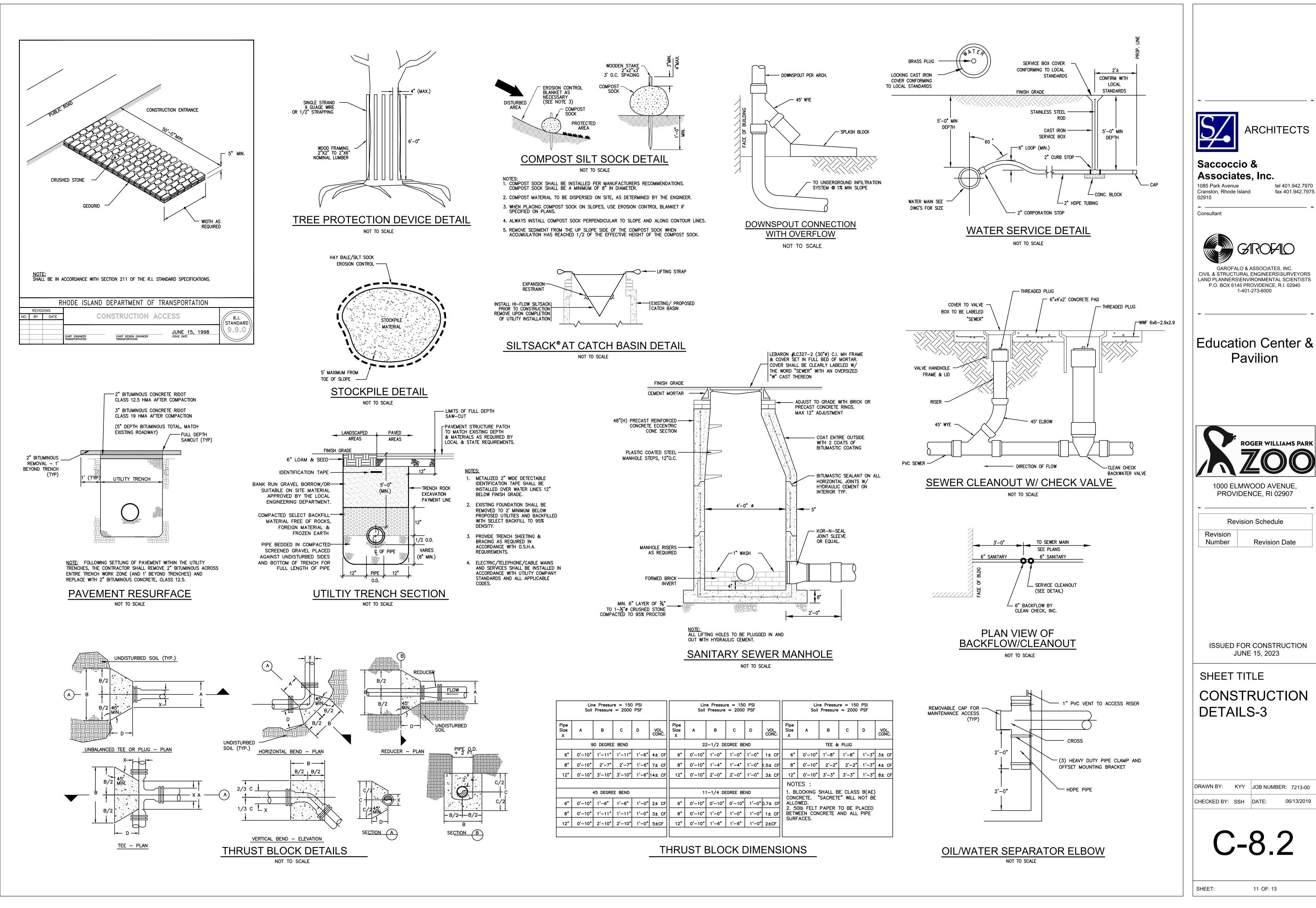


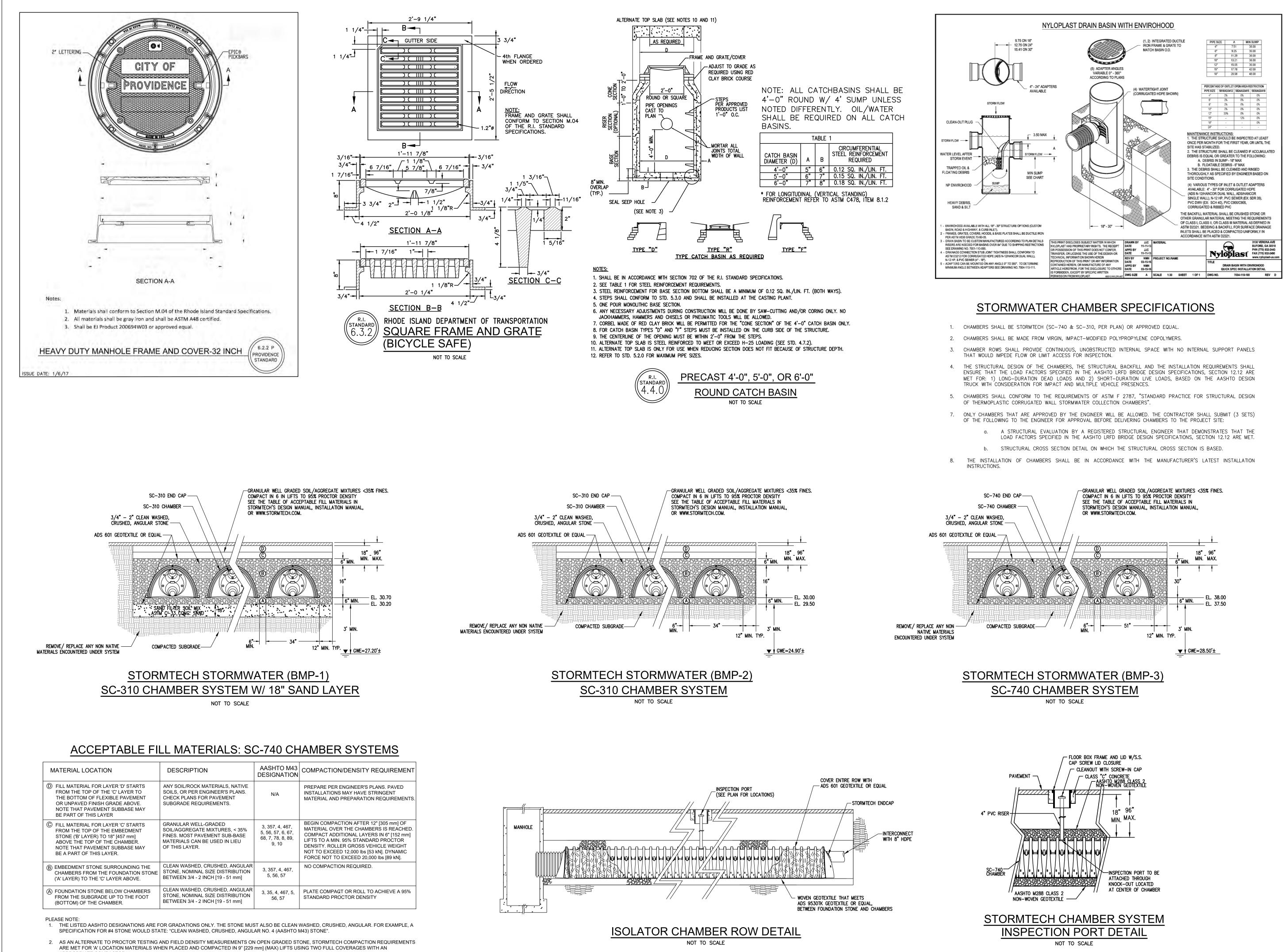




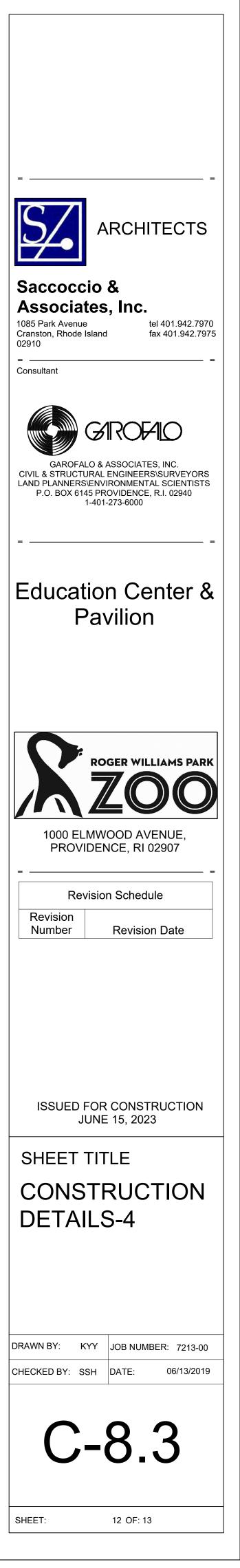


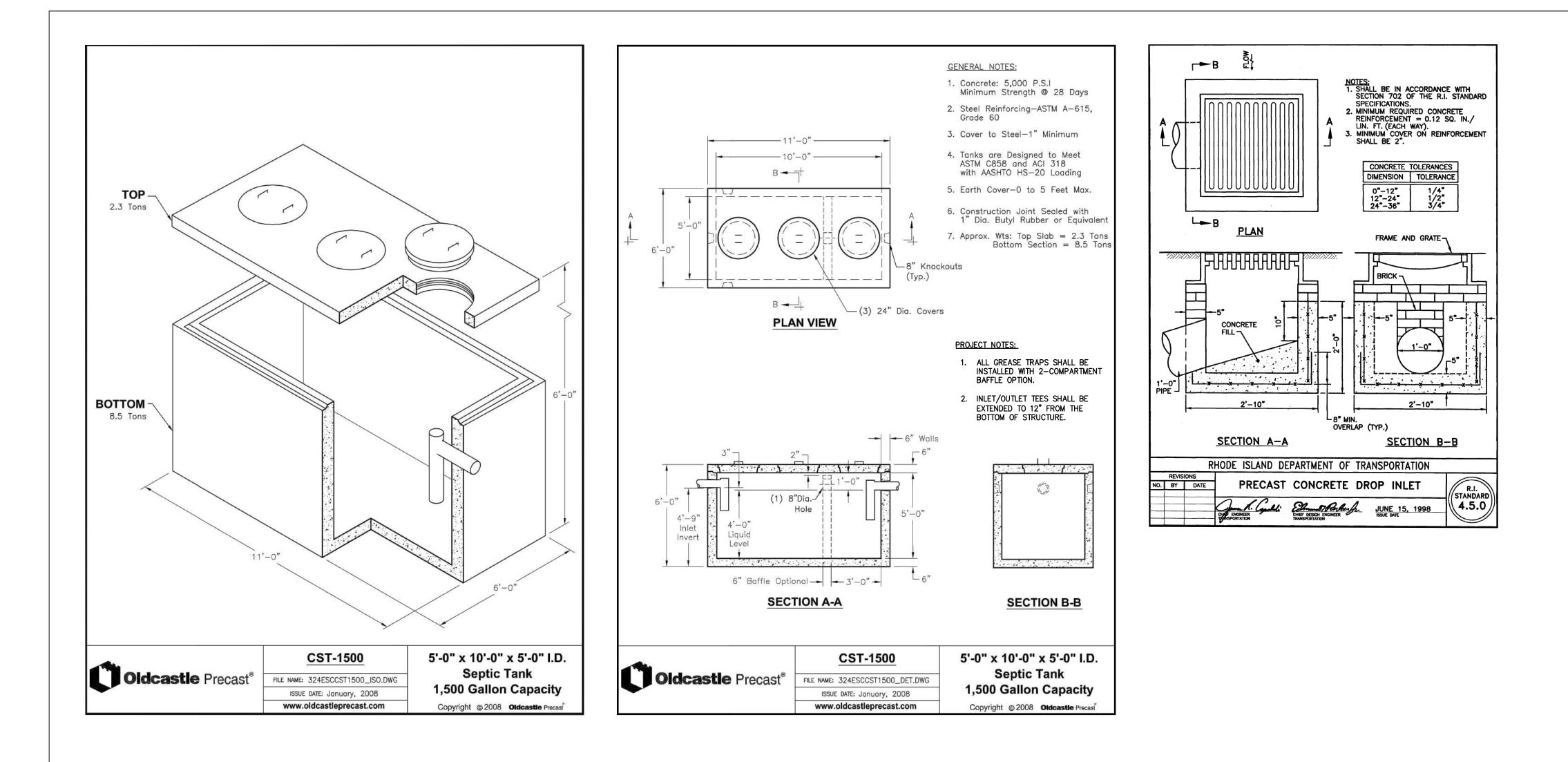


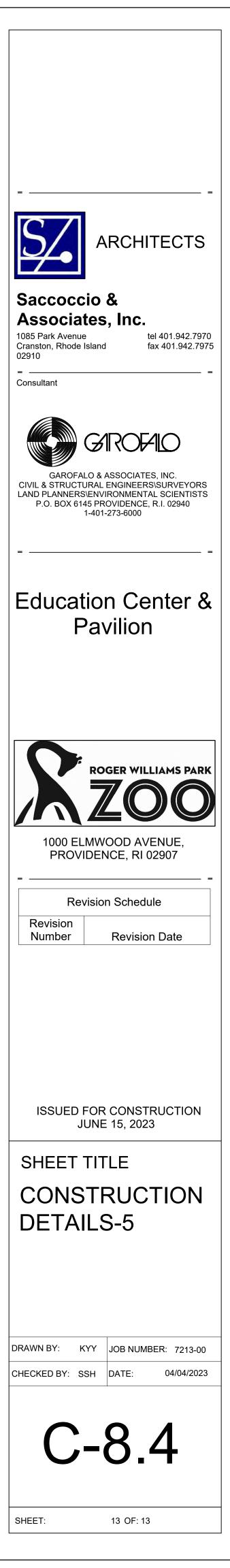


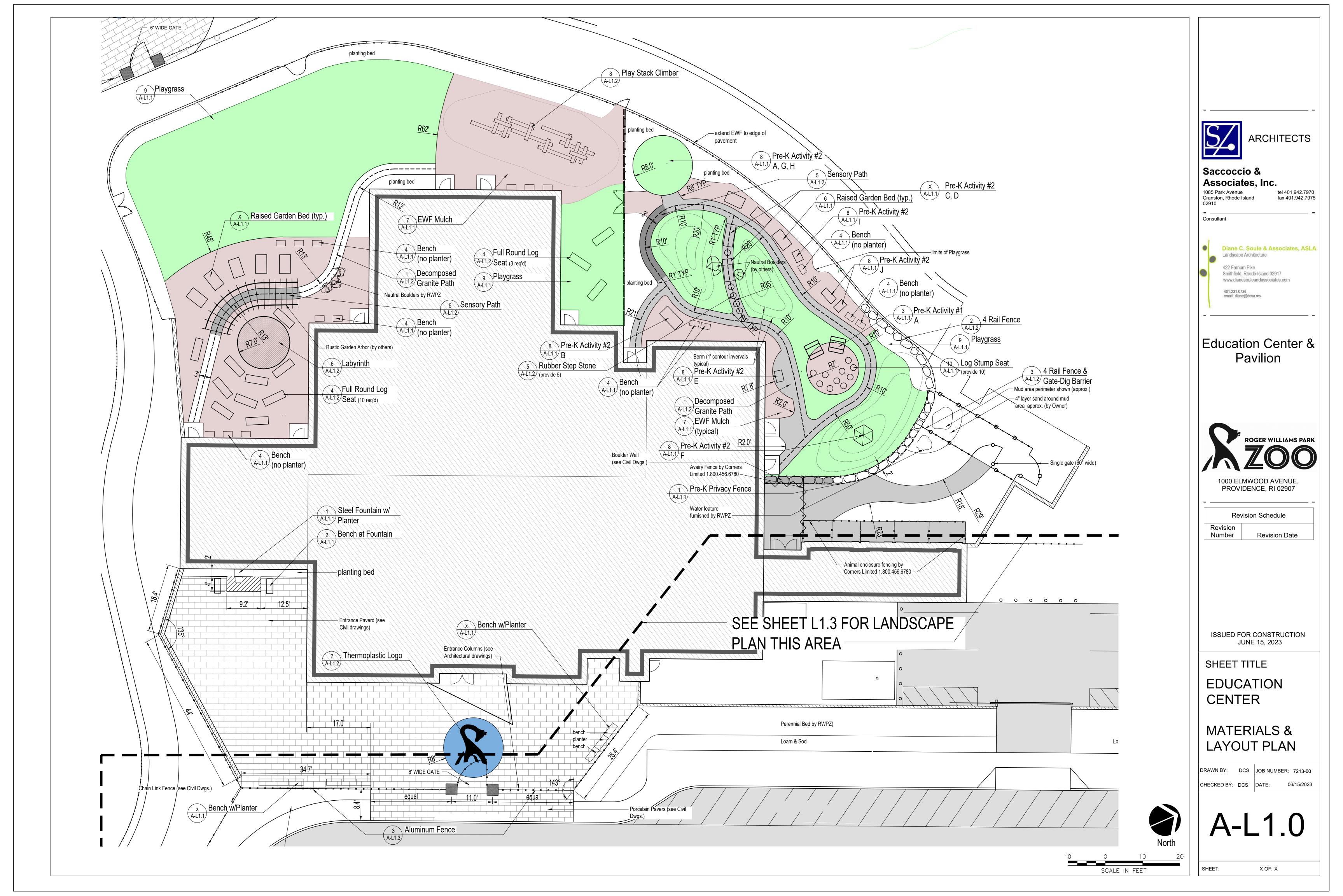


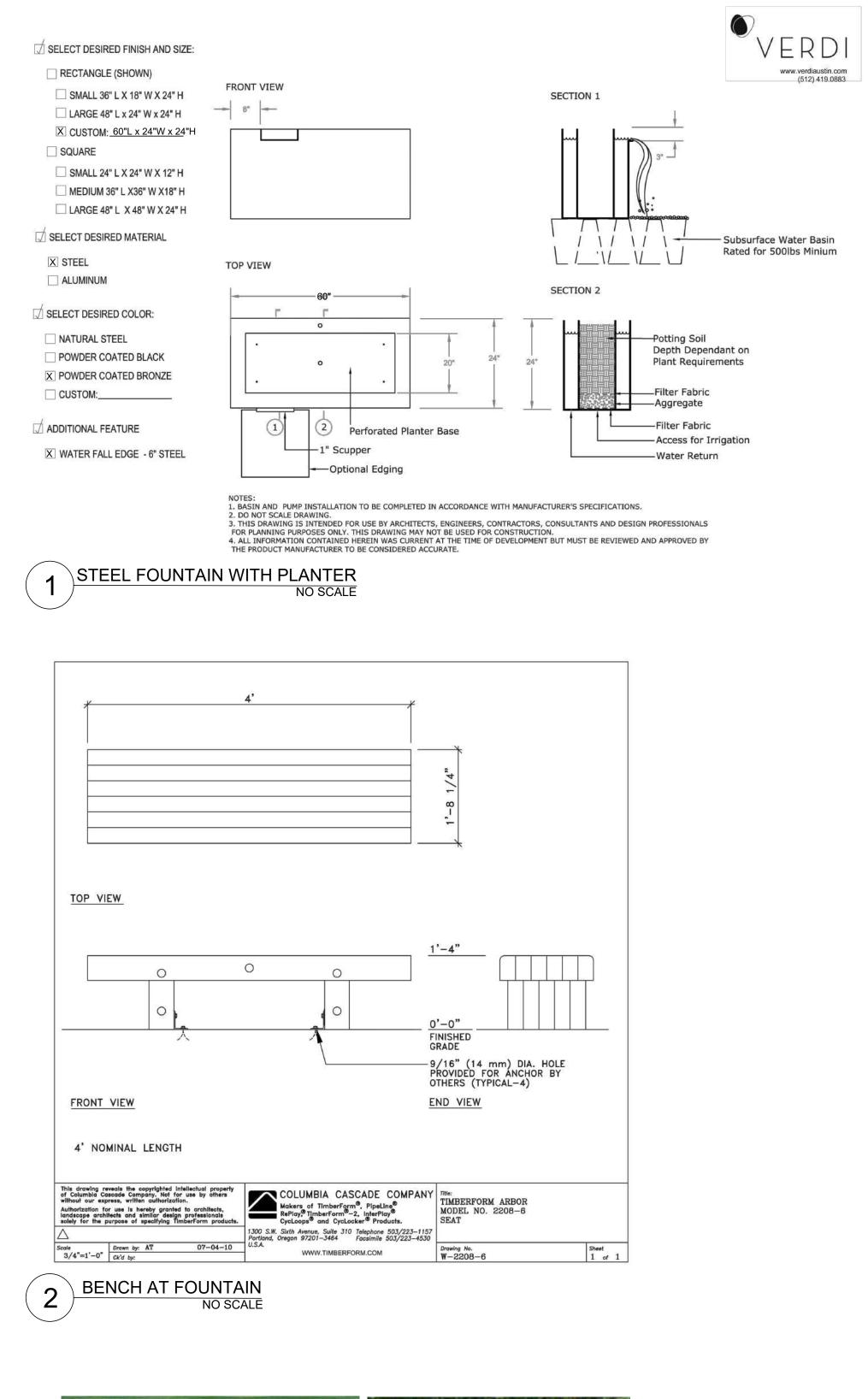
APPROPRIATE COMPACTOR.













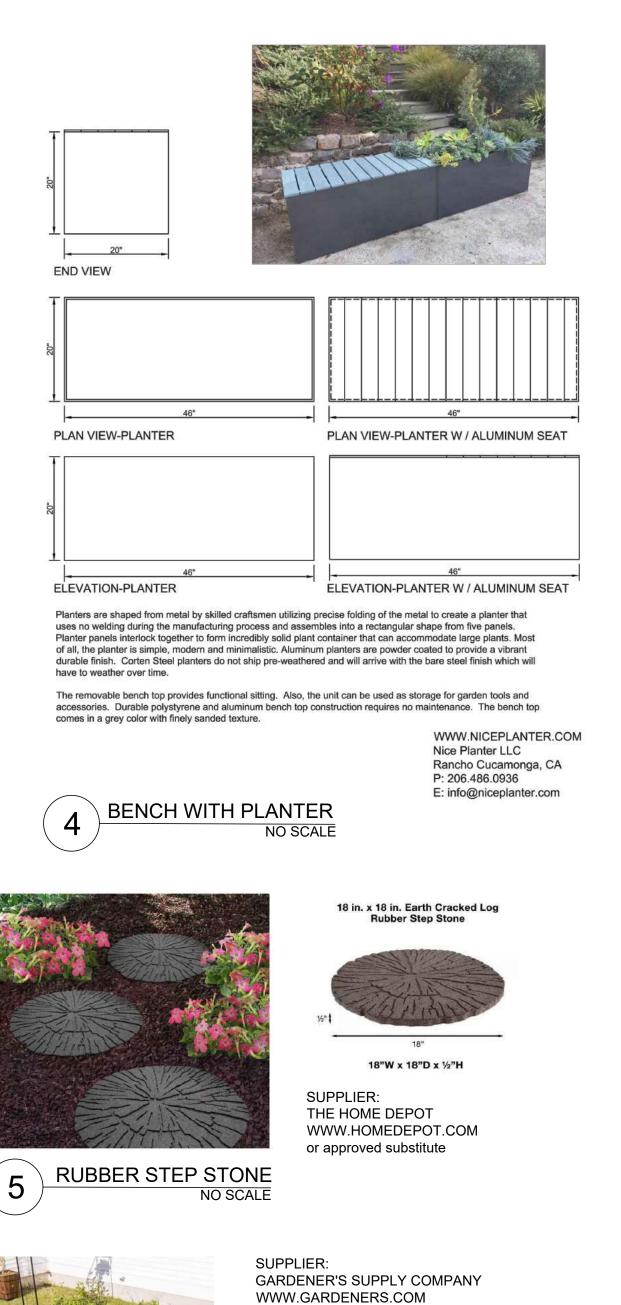


**B-BALANCE BEAM** 

SUPPLIER: CedarWorks www.cedarworks.com (800) 733-6711 (207) 593-0527 or approved substitute EWF —

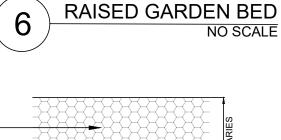




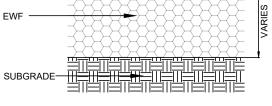


or approved substitute





3'X6' COPPER CAP CEDAR BED



NOTE: DEPTH OF EWF IN OUTDOOR ACTIVITY YARD IS 12" AFTER COMPACTION. DEPTH OF EWF IN PRE-K YARD IS 4" AFTER COMPACTION. EWF (Engineered Wood Fiber Playground Surfacing) must meet the following

Composition: Engineered wood fiber. No chemical treatments or additives. Compliance: Meet or exceed CPSC guidelines for impact attenuation. Recycled Content: 100 percent pre-consumer recovered materials.

Dimensions: Per sieve analysis, ASTM F2075 / 4.4 Hazardous Metal, ASTM F 2075 / 4.5 Tramp Metal, ASTM F 2075 / 4.6 Coefficient of Permeability, ASTM D 2434: Greater than 0.6 cm/s.
 When bonded: Permeability per falling head test, EM1110-2-1906-VII-13: 191.19 Moisture Absorption: Maximum of 150 percent by weight.

0. Moisture Content: 25 to 60 percent by weight. Density: 15 to 24 pounds per cubic foot. 2. Impact Attenuation: ASTM F 1292. 13. IPEMA Certification: 8 inch thickness rated to 8 feet and 12 inch thickness to 12 feet.

ENGINEERED WOOD FIBER (EWF) 3/4" = 1'-0"





A-FORT BUILDING ACTIVITY CENTER B-WATER WORKS CENTER





F-WILLOW HUT



PRE-K ACTIVITY #2

NO SCALE



I-GARDEN ACTIVITY CENTER

8

9

'PLAYBOUND TURF LAWN, EWF OR TOP' SYNTHETIC TURF -----PLANTING BED — CRUSHED STONE -----SUBGRADE-

3/16" x 4" HIGH X 16' LONG ALUMINUM

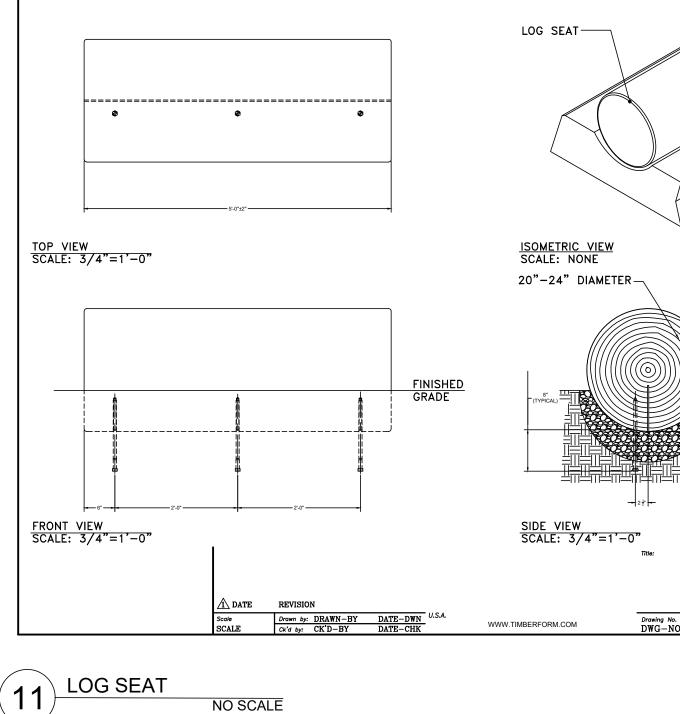
PLAYGRASS

3/4" = 1'-0"

EDGING W/6 ANCHOR STAKES PER



SECTION-







C-OUTLAST BRIDGE

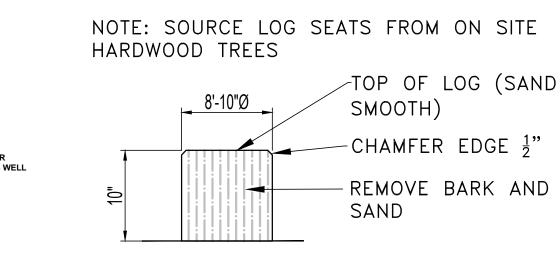


G-FORT BUILDING MATERIAL STORAGE

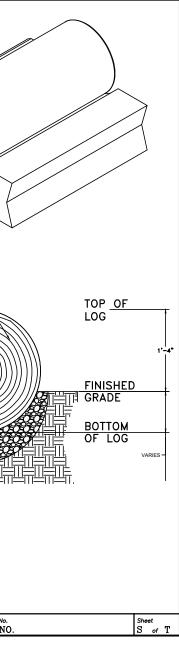


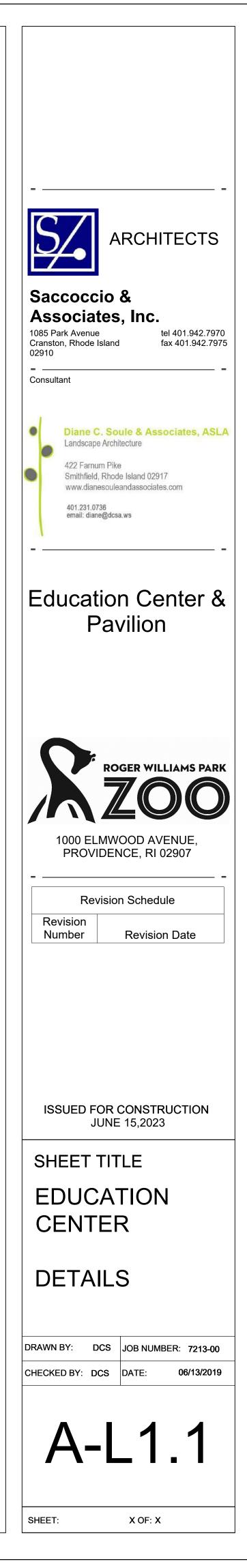
J-MUD KITCHEN SUPPLIER:

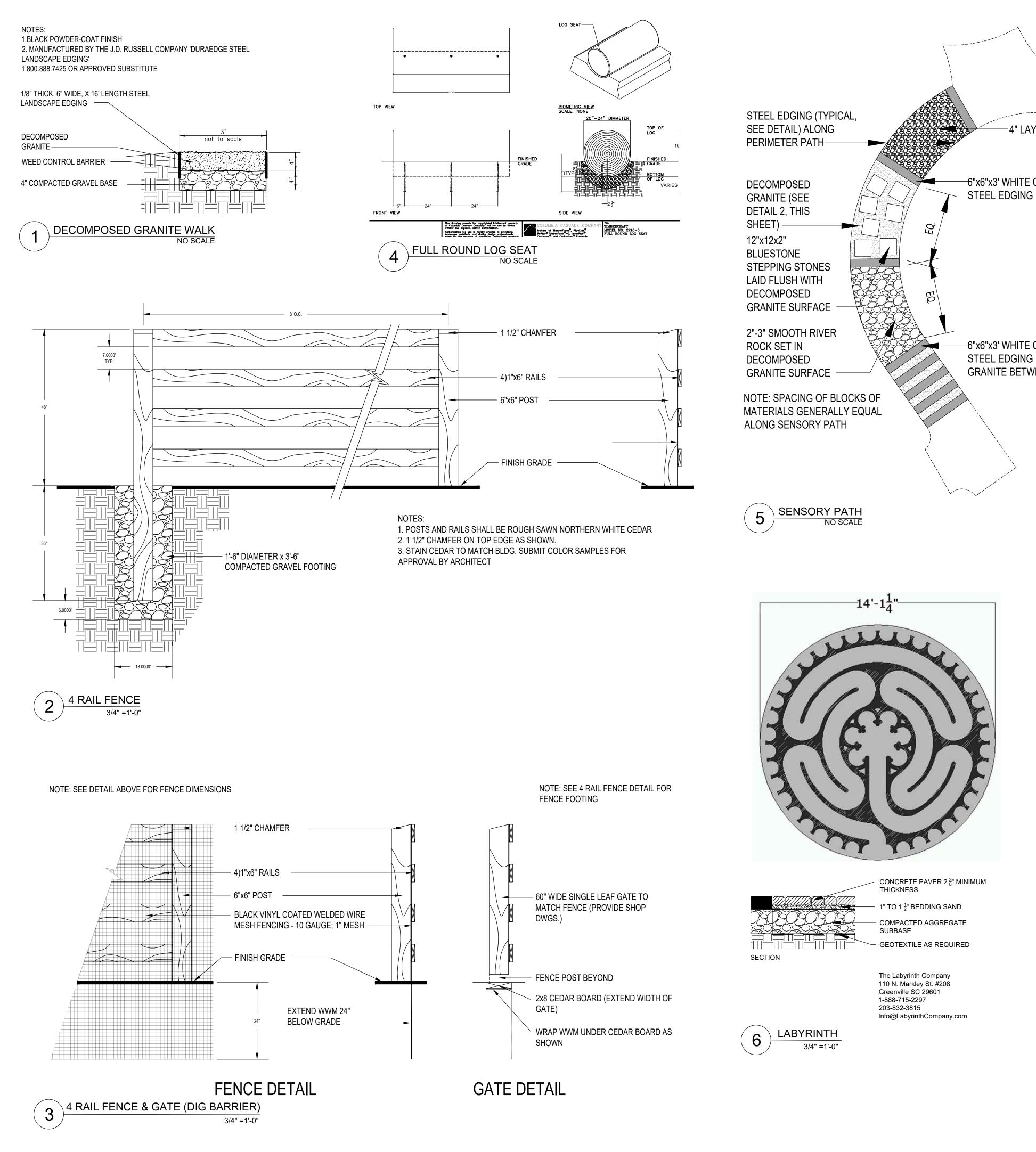
LOUISE KOOL & GALT WWW.LOUISEKOOL.COM 1.800.268.4011 or approved substitute





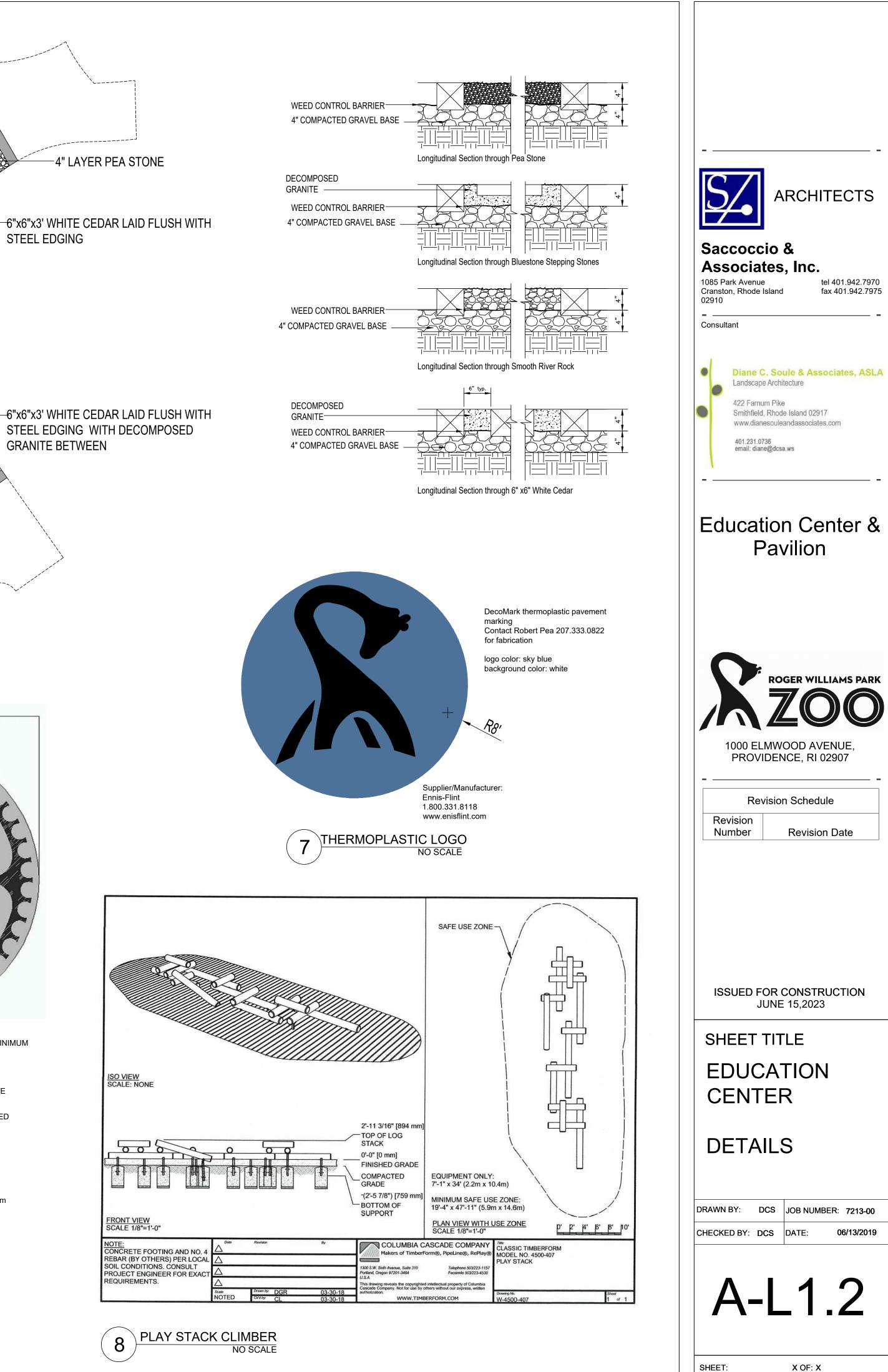




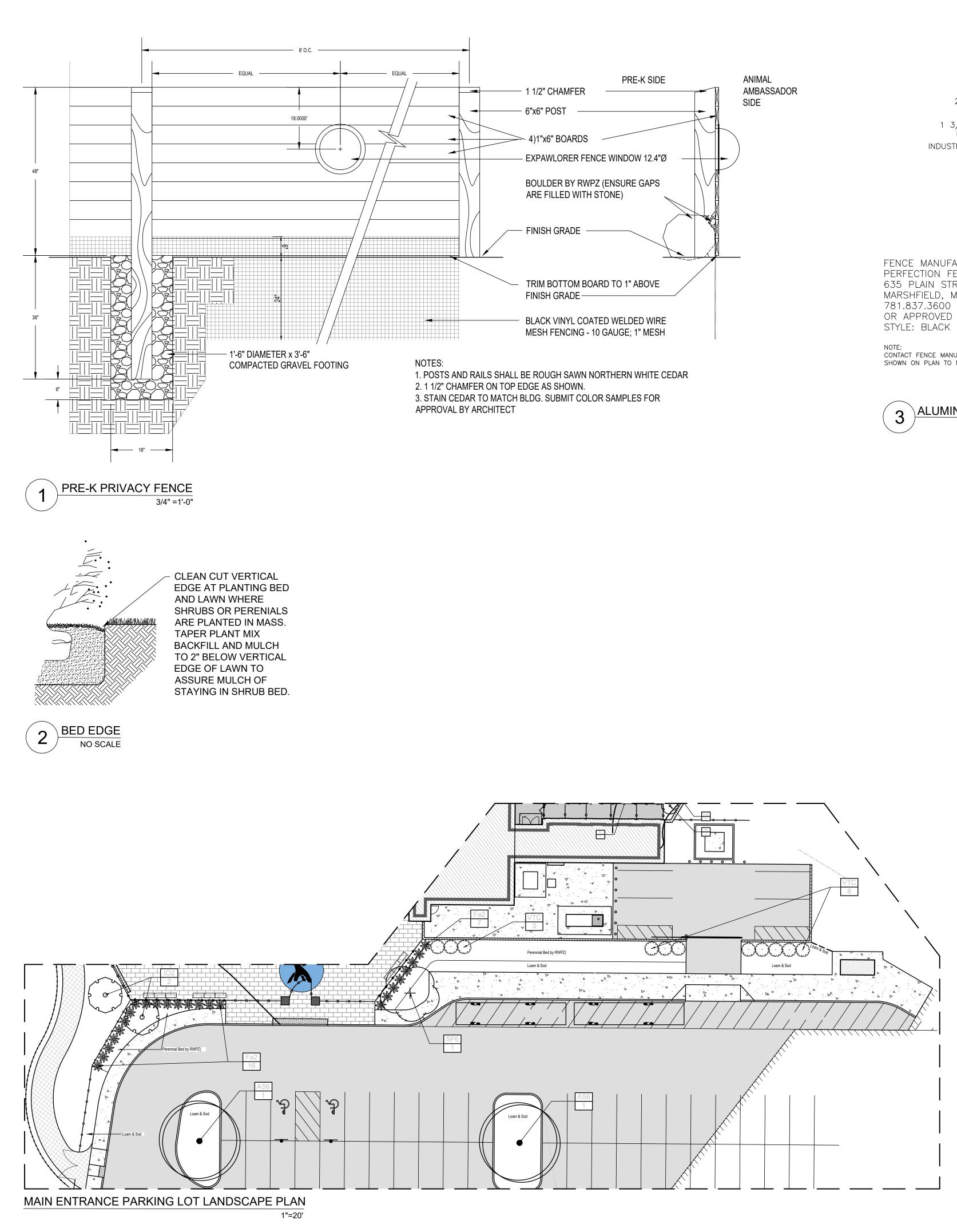


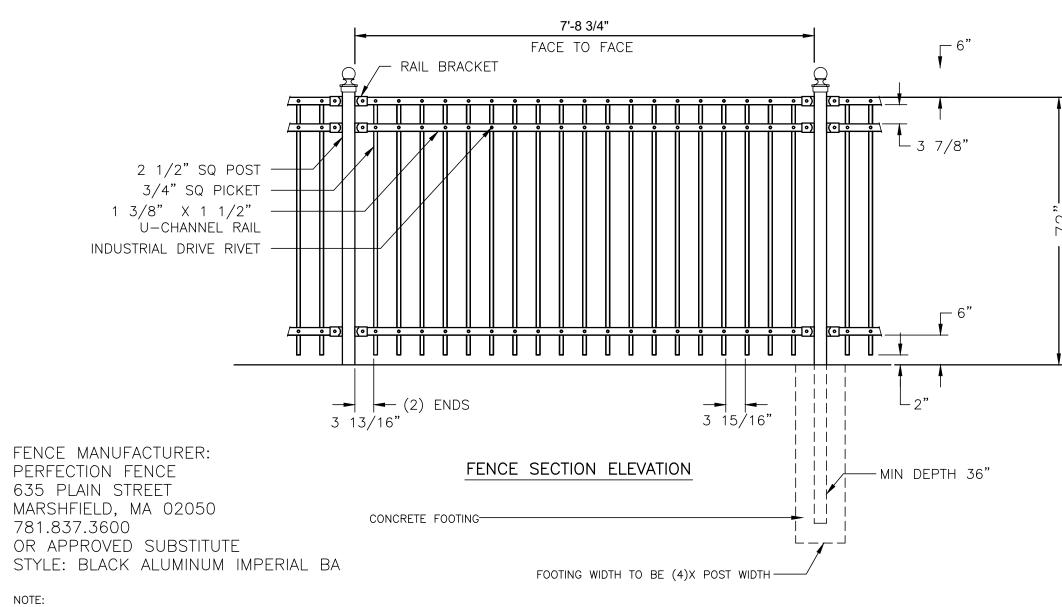
-6"x6"x3' WHITE CEDAR LAID FLUSH WITH STEEL EDGING WITH DECOMPOSED **GRANITE BETWEEN** 

> ISO VIEW SCALE: NONE 00 FRONT VIEW SCALE 1/8"=1'-0" CONCRETE FOOTING AND NO. 4 REBAR (BY OTHERS) PER LOCAL SOIL CONDITIONS. CONSULT PROJECT ENGINEER FOR EXACT REQUIREMENTS.



X OF: X

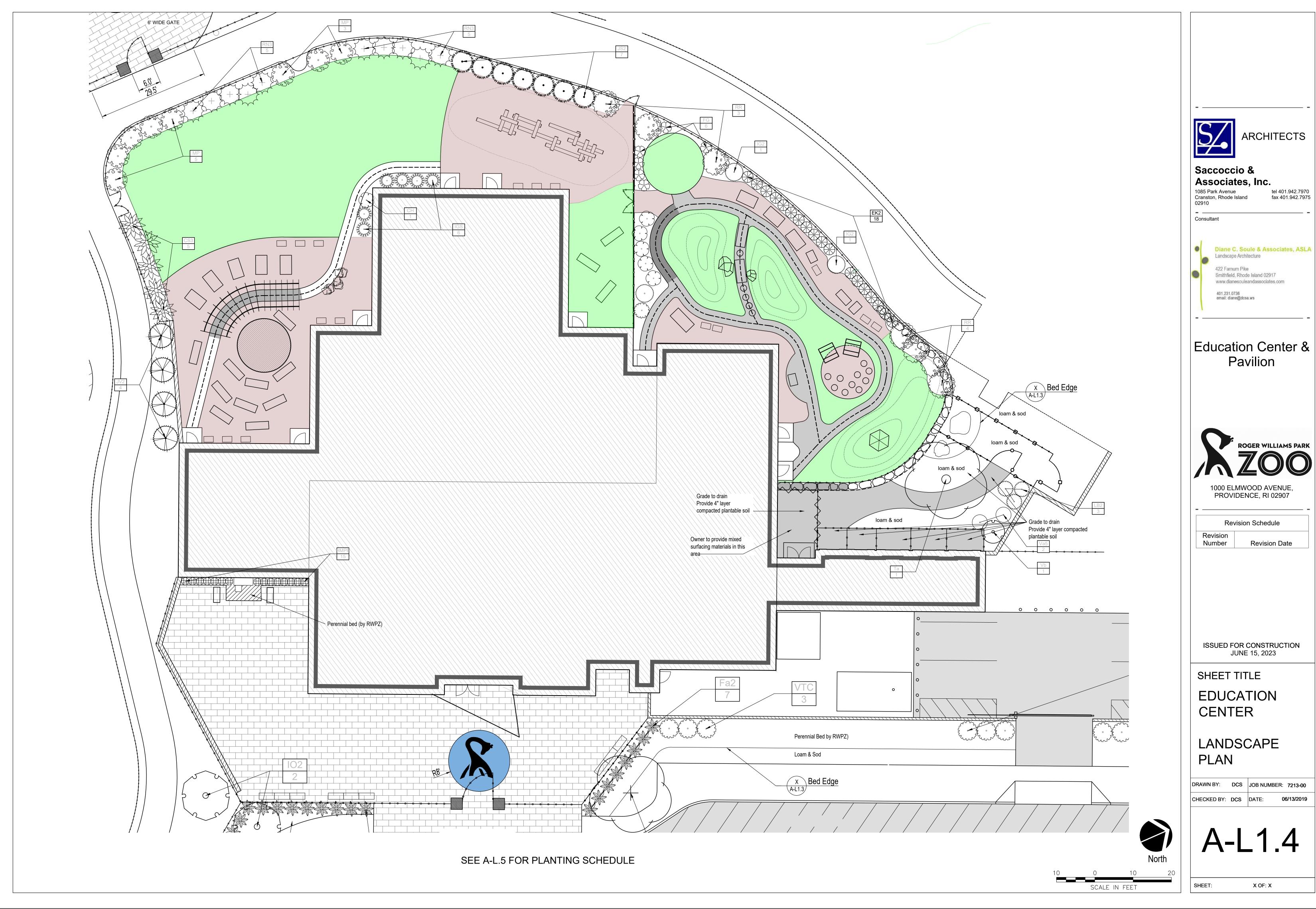


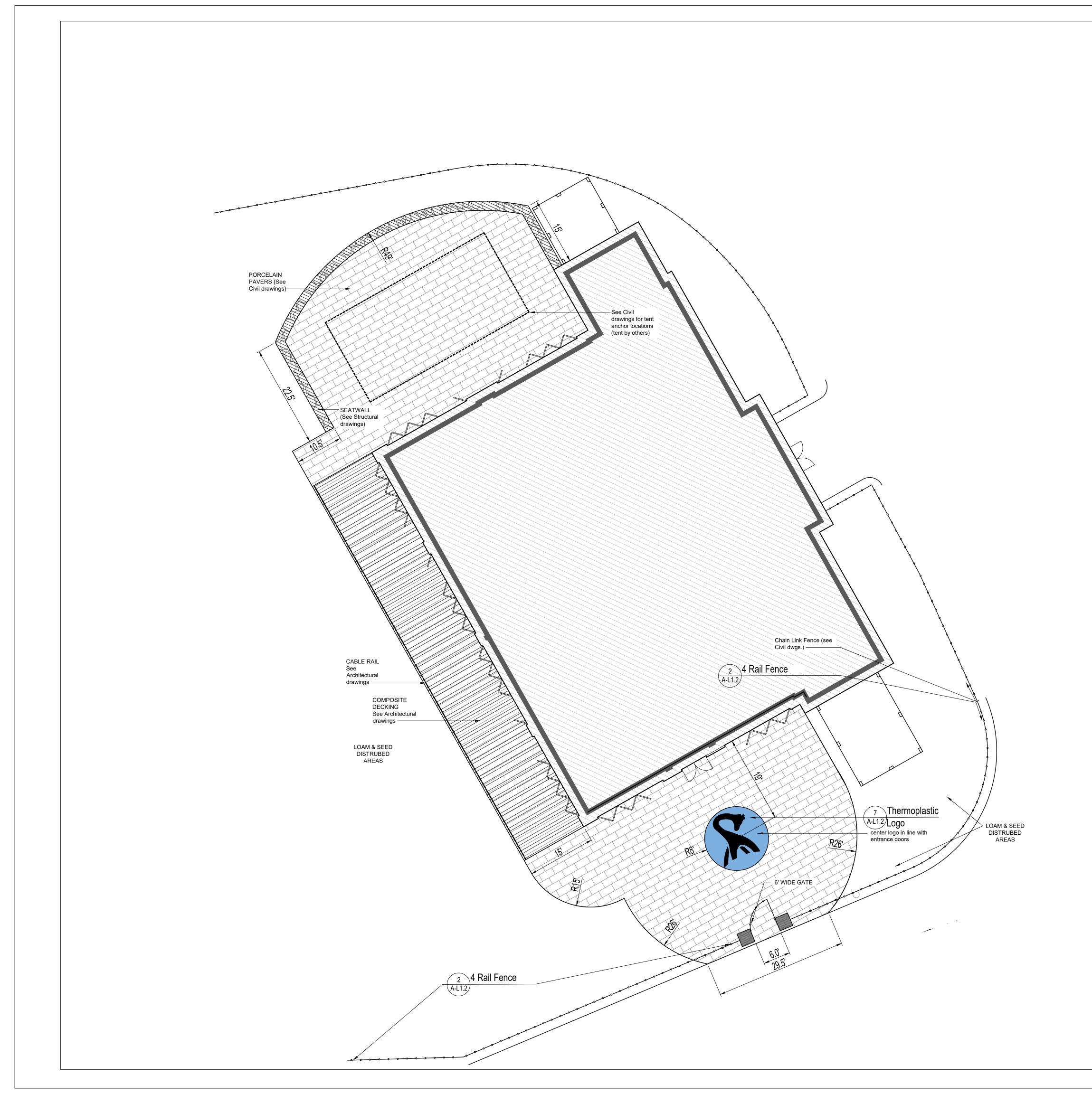


CONTACT FENCE MANUFACTURER FOR INSTALLATION DETAILS. PROVIDE GATES AS SHOWN ON PLAN TO MATCH FENCE. SUBMIT SHOP DRAWINGS FOR APPROVAL.

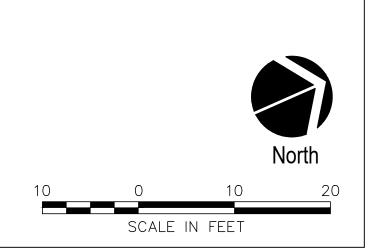


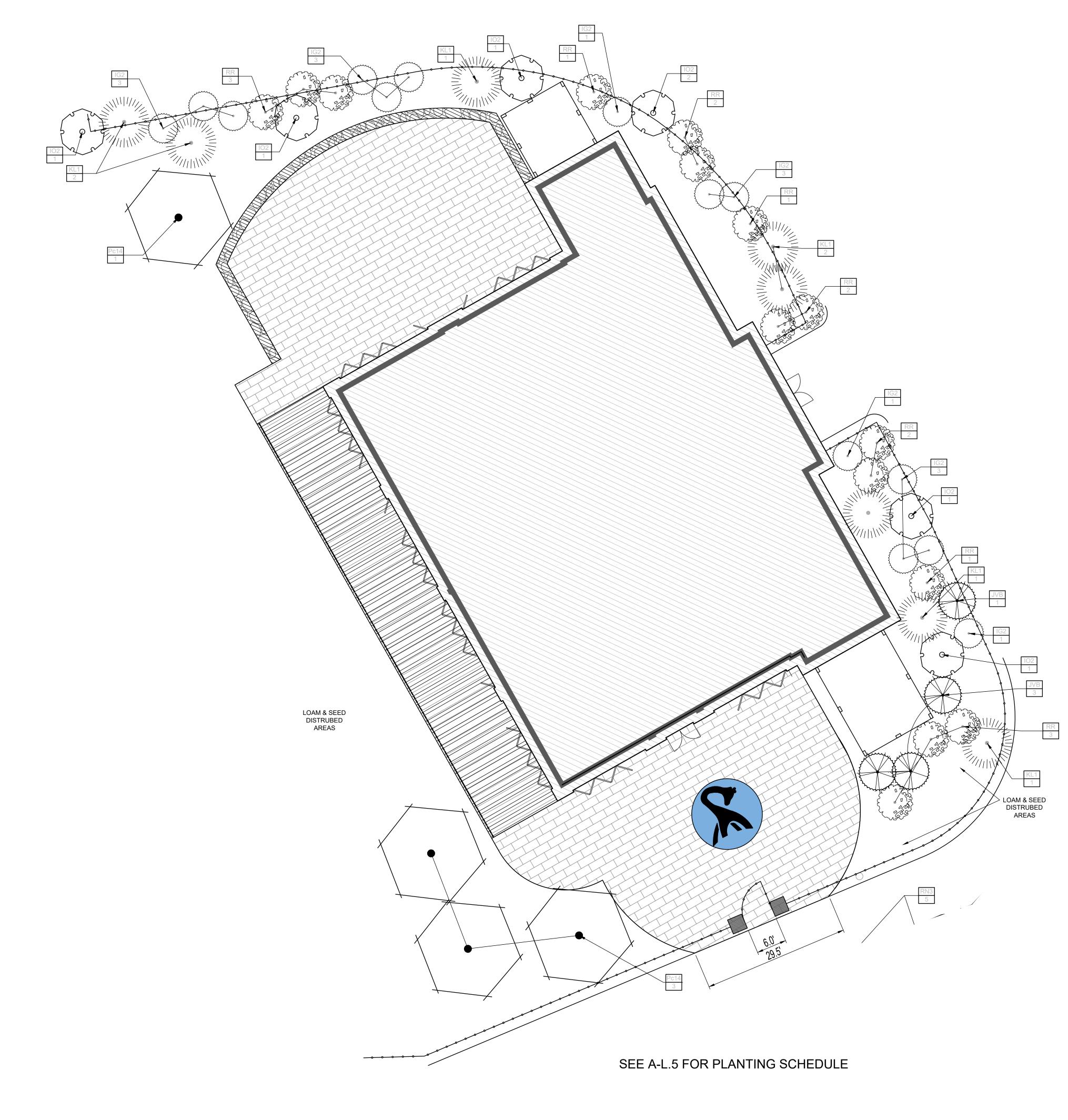
-       -         Image: Solution of the system       ARCHITECTS         ARCHITECTS       Saccoccio & Saccoccio & Saccoccio & Saccocciates, Inc.         1085 Park Avenue       tel 401.942.7970         Cranston, Rhode Island       tel 401.942.7975         02910       -         -       -         Consultant       -
Diane C. Soule & Associates, ASLA Landscape Architecture 422 Farnum Pike Smithfield, Rhode Island 02917 www.dianesouleandassociates.com 401.231.0736 email: diane@dcsa.ws
Education Center & Pavilion
ROGER WILLIAMS PARK ZOOOO AUDOO ELMWOOD AVENUE, PROVIDENCE, RI 02907
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE EDUCATION CENTER
DETAILS DRAWN BY: DCS JOB NUMBER: 7213-00 CHECKED BY: DCS DATE: 06/13/2019
<b>A-L1.3</b> Sheet: X OF: X



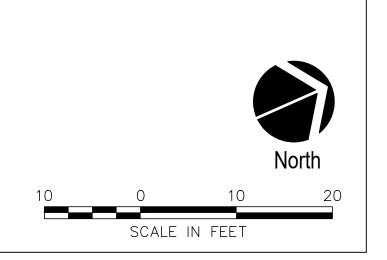


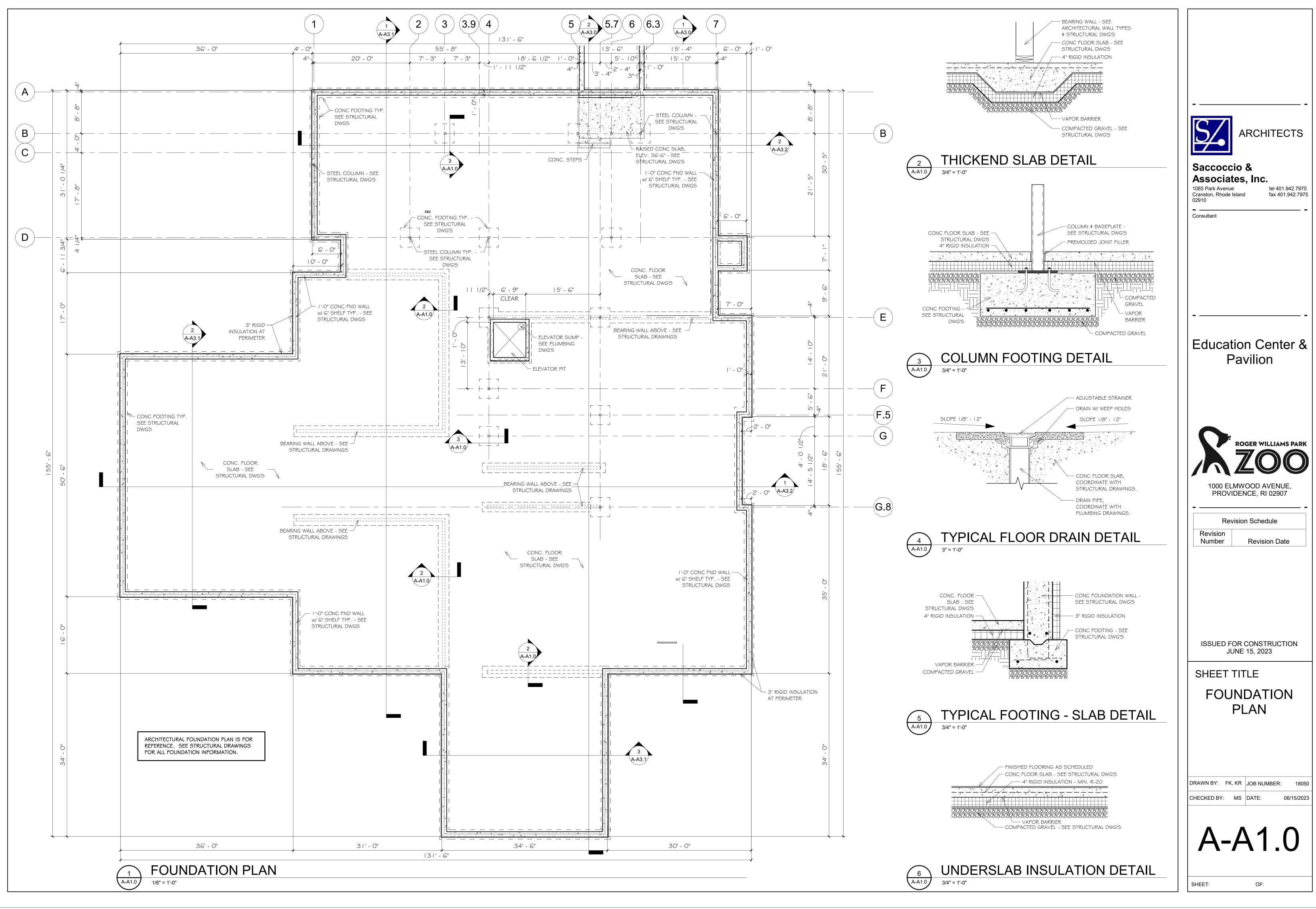
ARCHITECTS
Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910 = = Consultant
Diane C. Soule & Associates, ASLA Landscape Architecture 422 Farnum Pike Smithfield, Rhode Island 02917 www.dianesouleandassociates.com 401.231.0736 email: diane@dcsa.ws
Education Center & Pavilion
Revision Schedule Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE PAVILION
MATERIALS & LAYOUT PLAN
DRAWN BY: DCS JOB NUMBER: 7213-00 CHECKED BY: DCS DATE: 06/13/2019 B-L1.0
SHEET: X OF: X

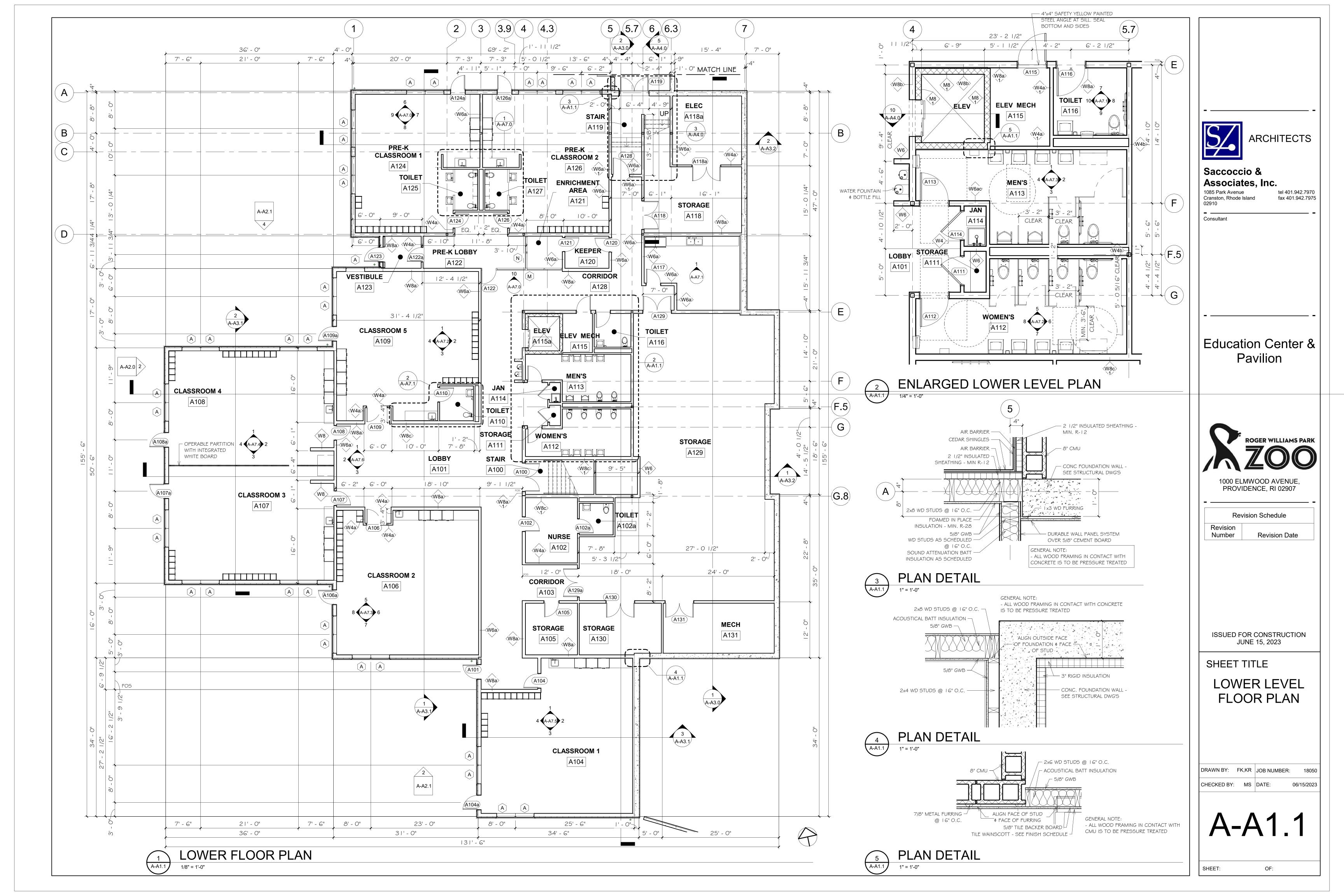


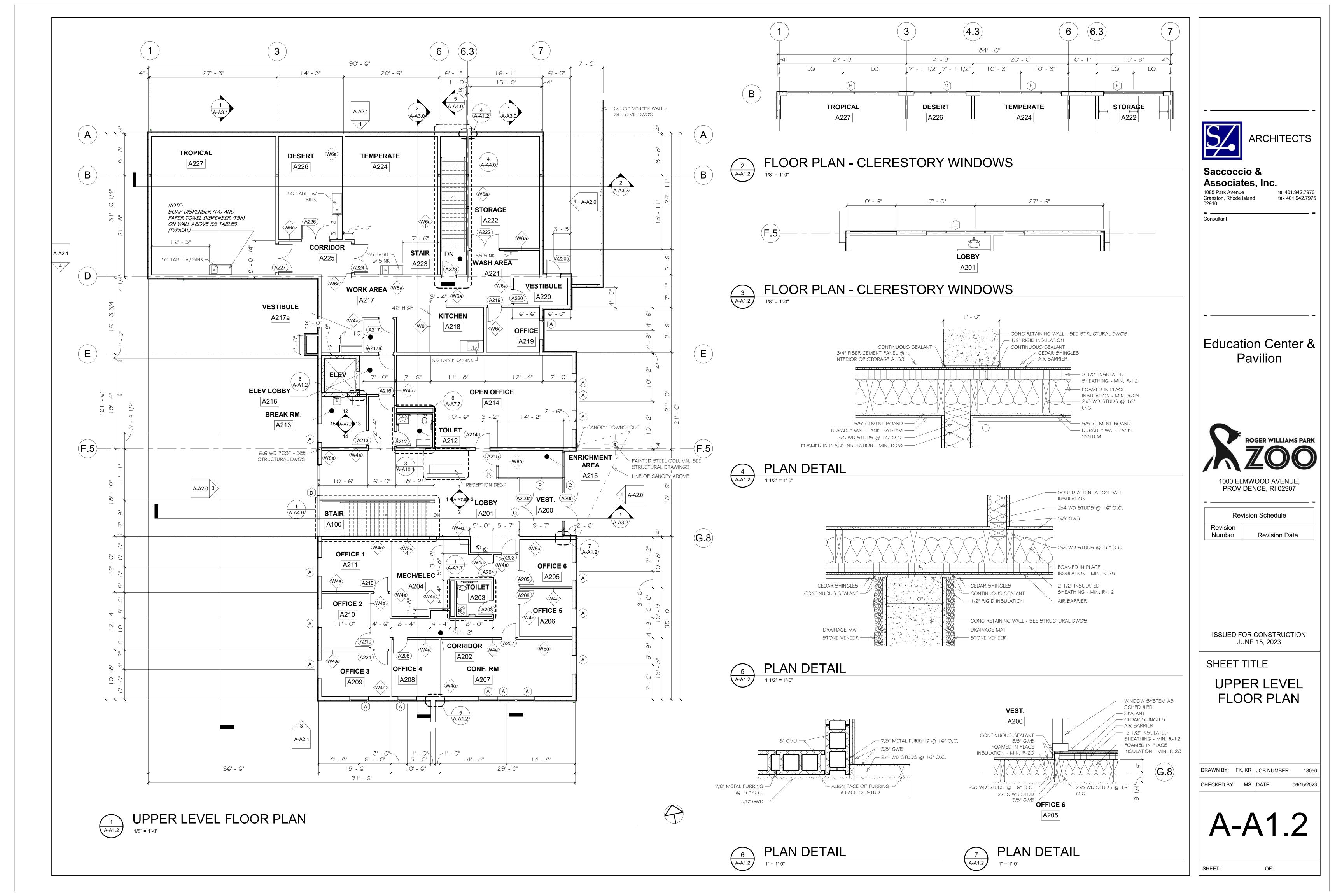


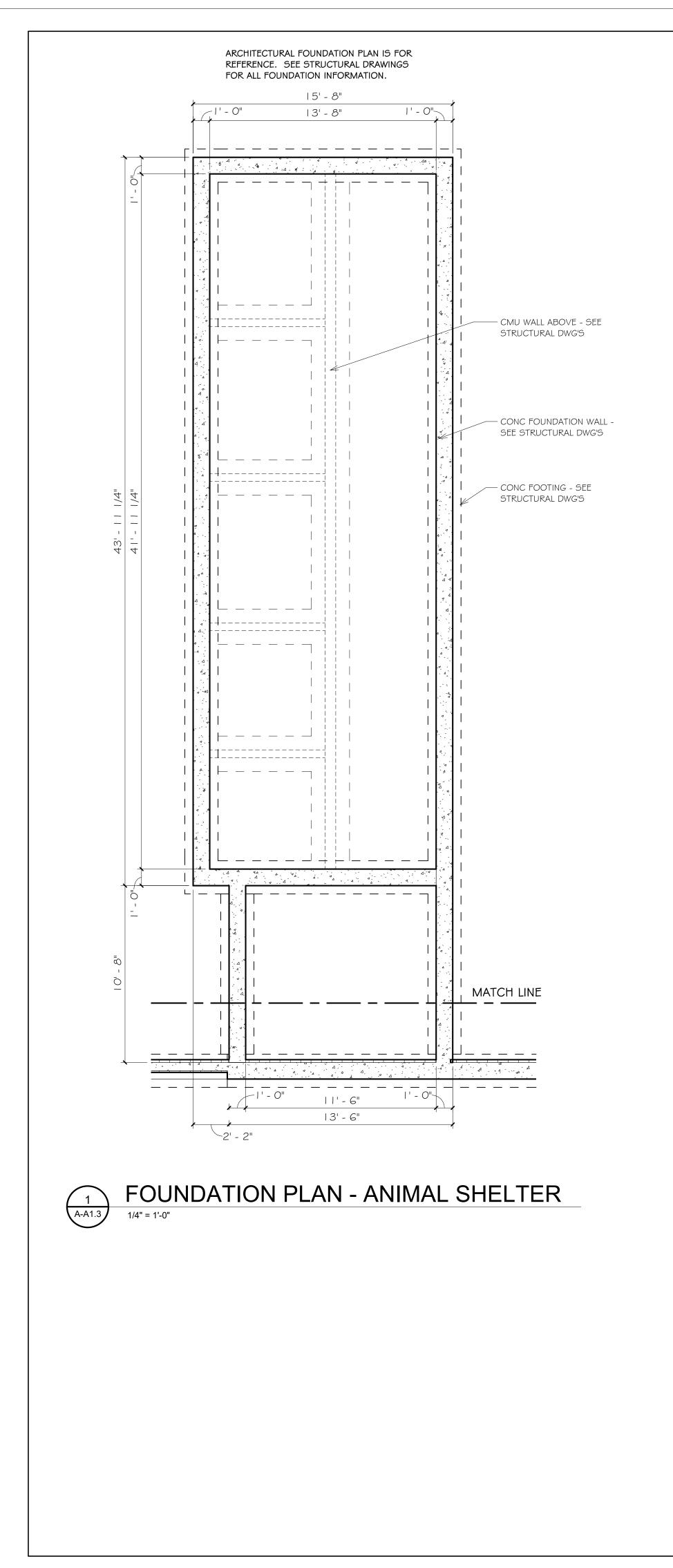
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Education Center & Pavilion
ROGER WILLIAMS PARK ZOOOO 1000 ELMWOOD AVENUE, PROVIDENCE, RI 02907
ISSUED FOR CONSTRUCTION JUNE 15, 2023
SHEET TITLE PAVILION
LANDSCAPE PLAN
DRAWN BY: DCS JOB NUMBER: 7213-00 CHECKED BY: DCS DATE: 06/13/2019
B-L1.1
SHEET: X OF: X

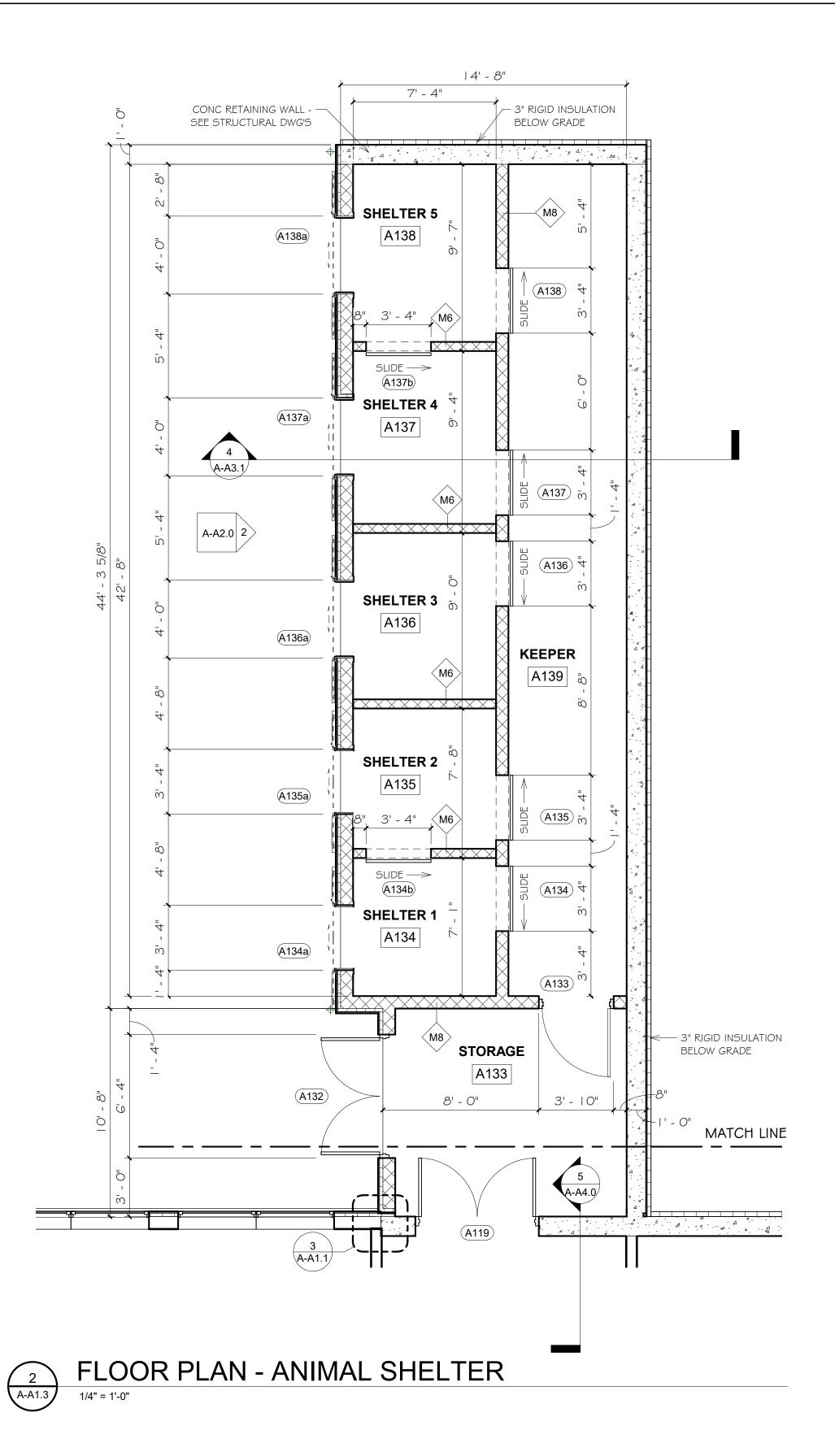


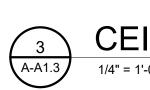


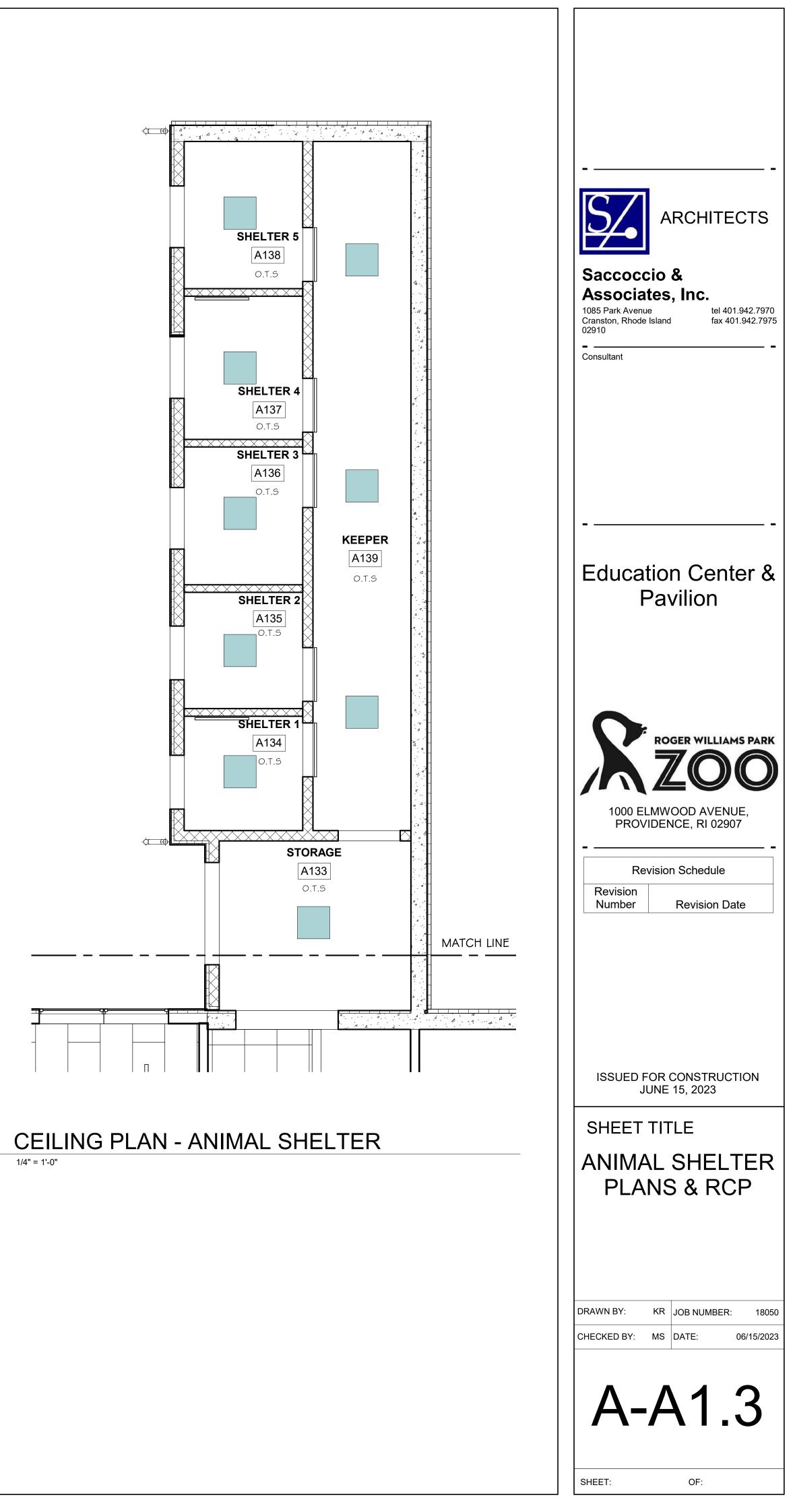


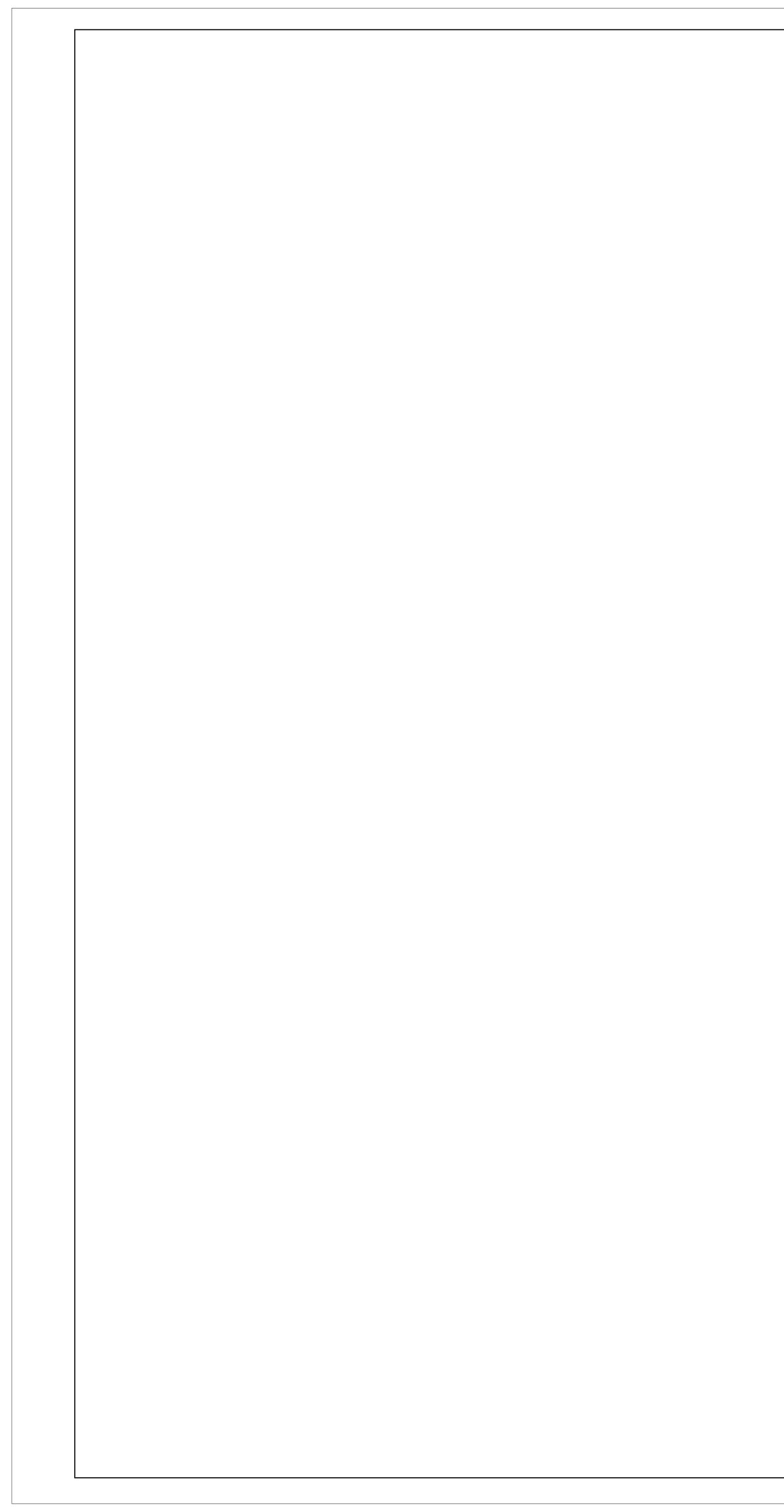


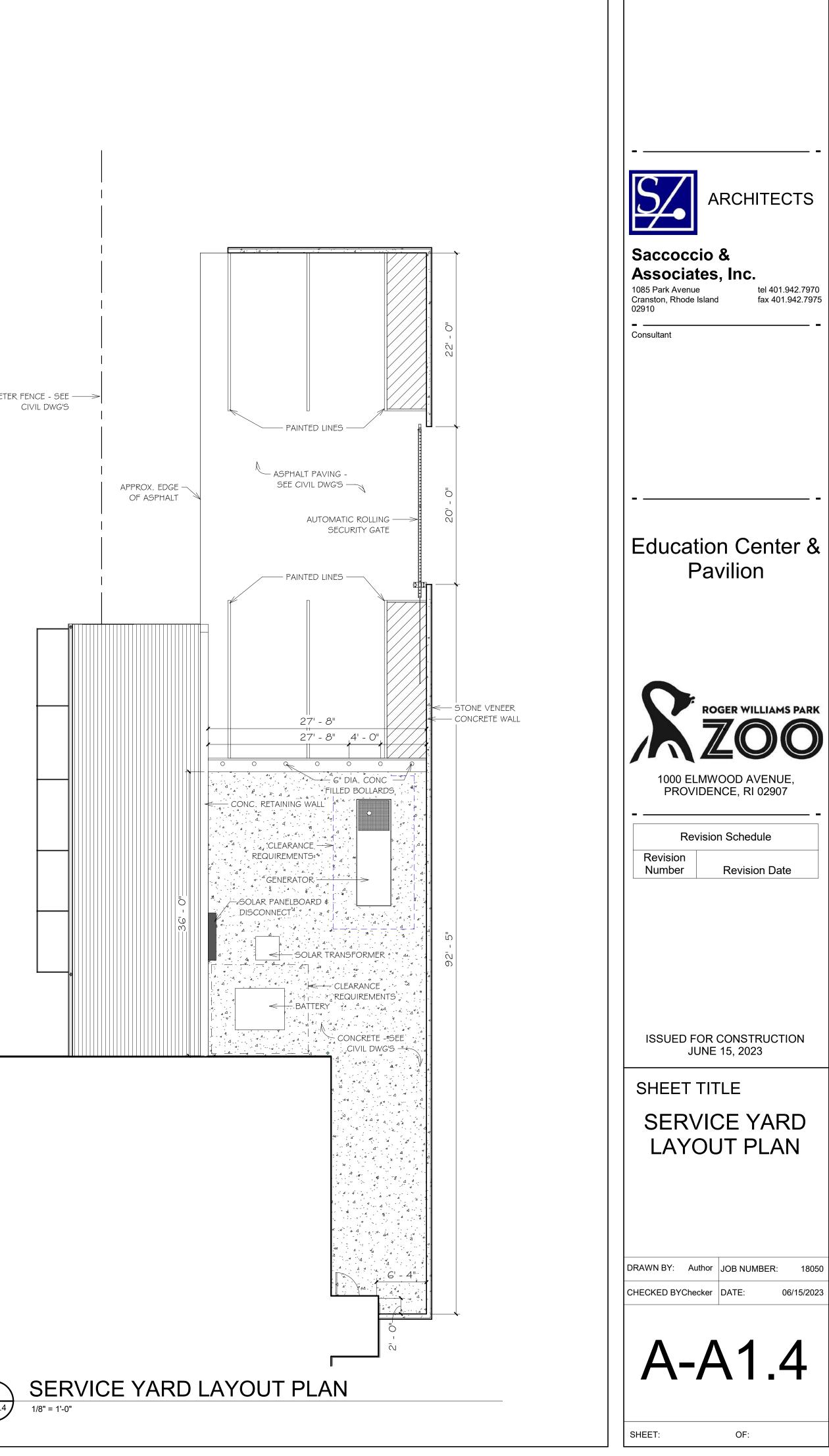


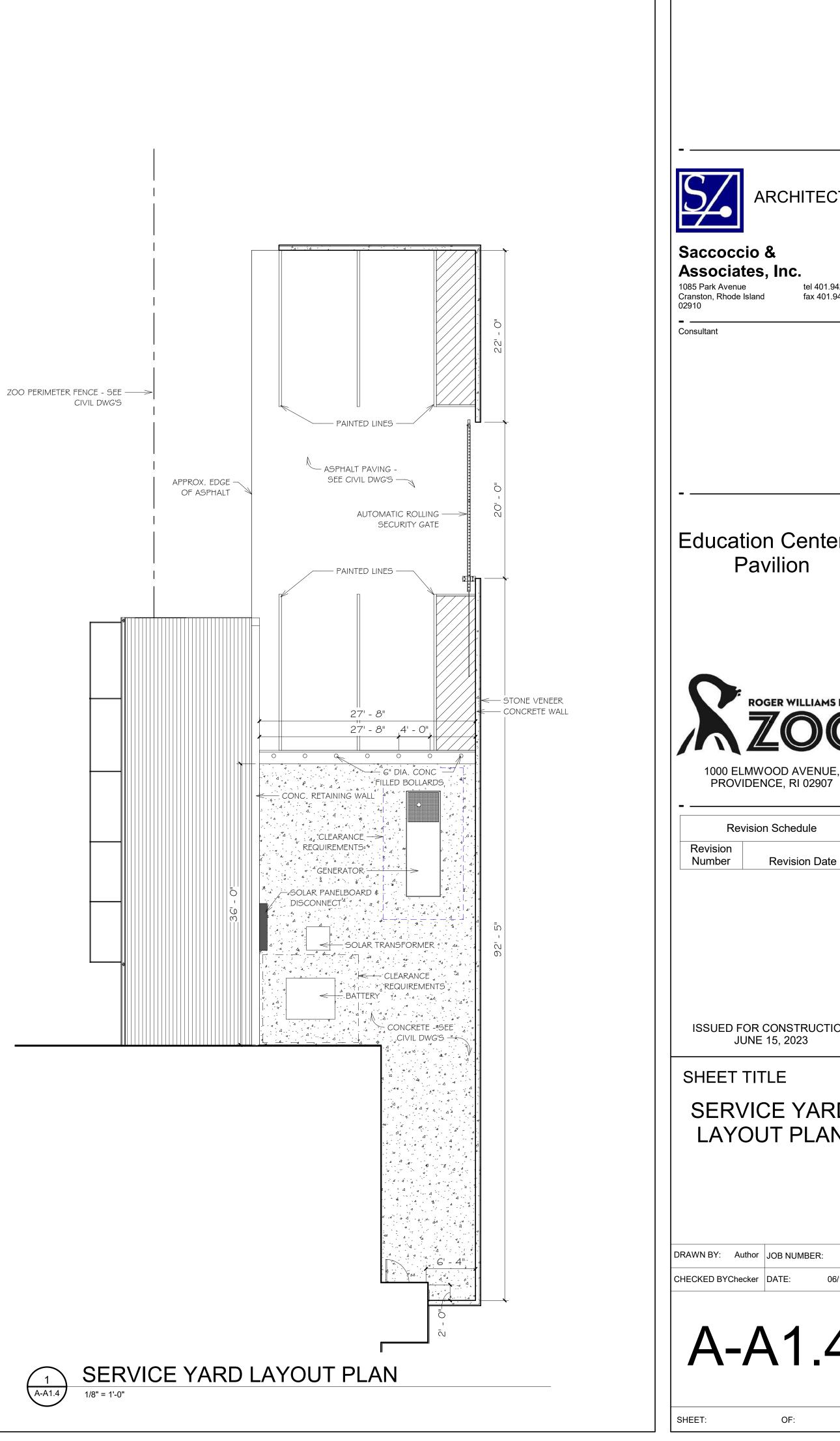


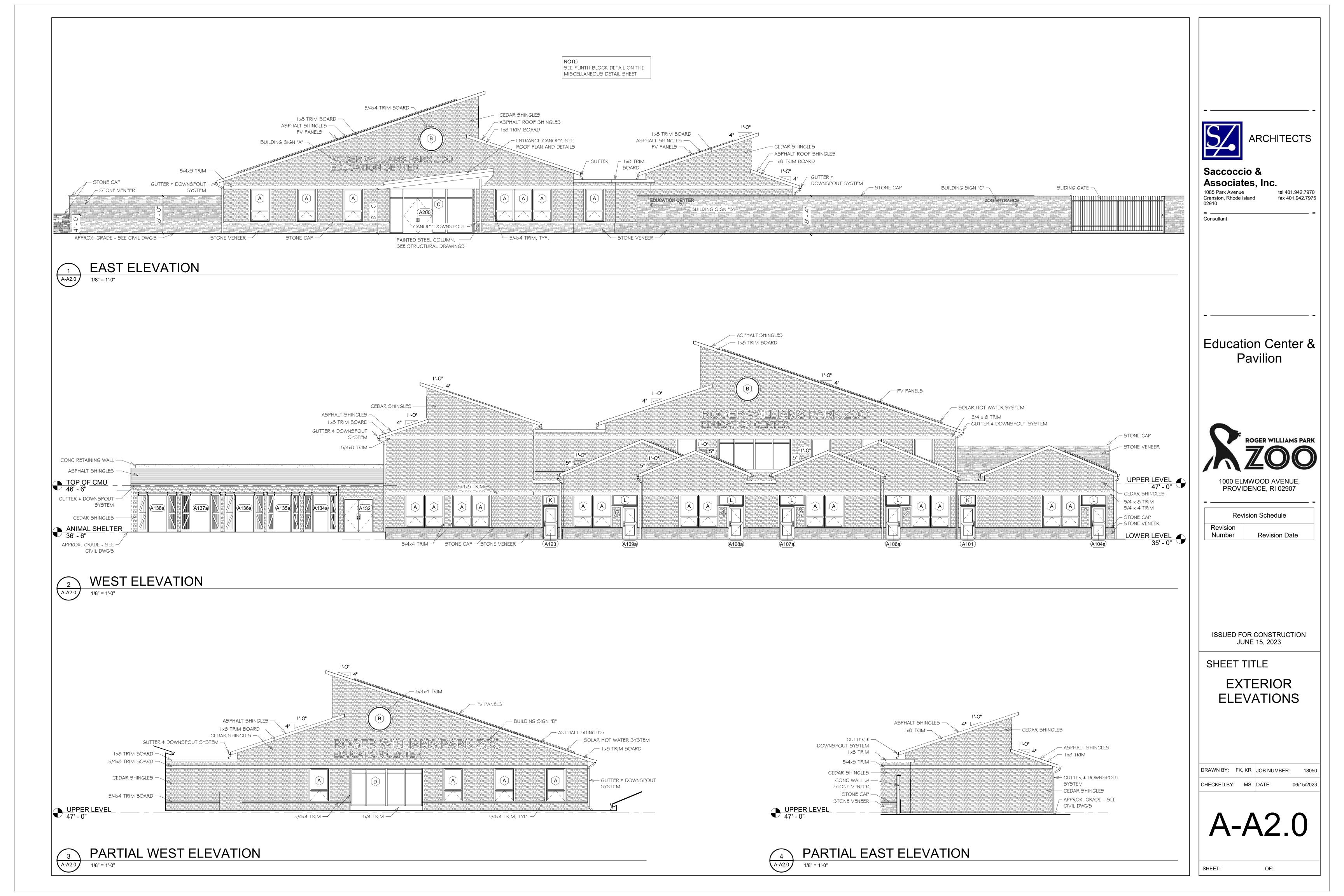


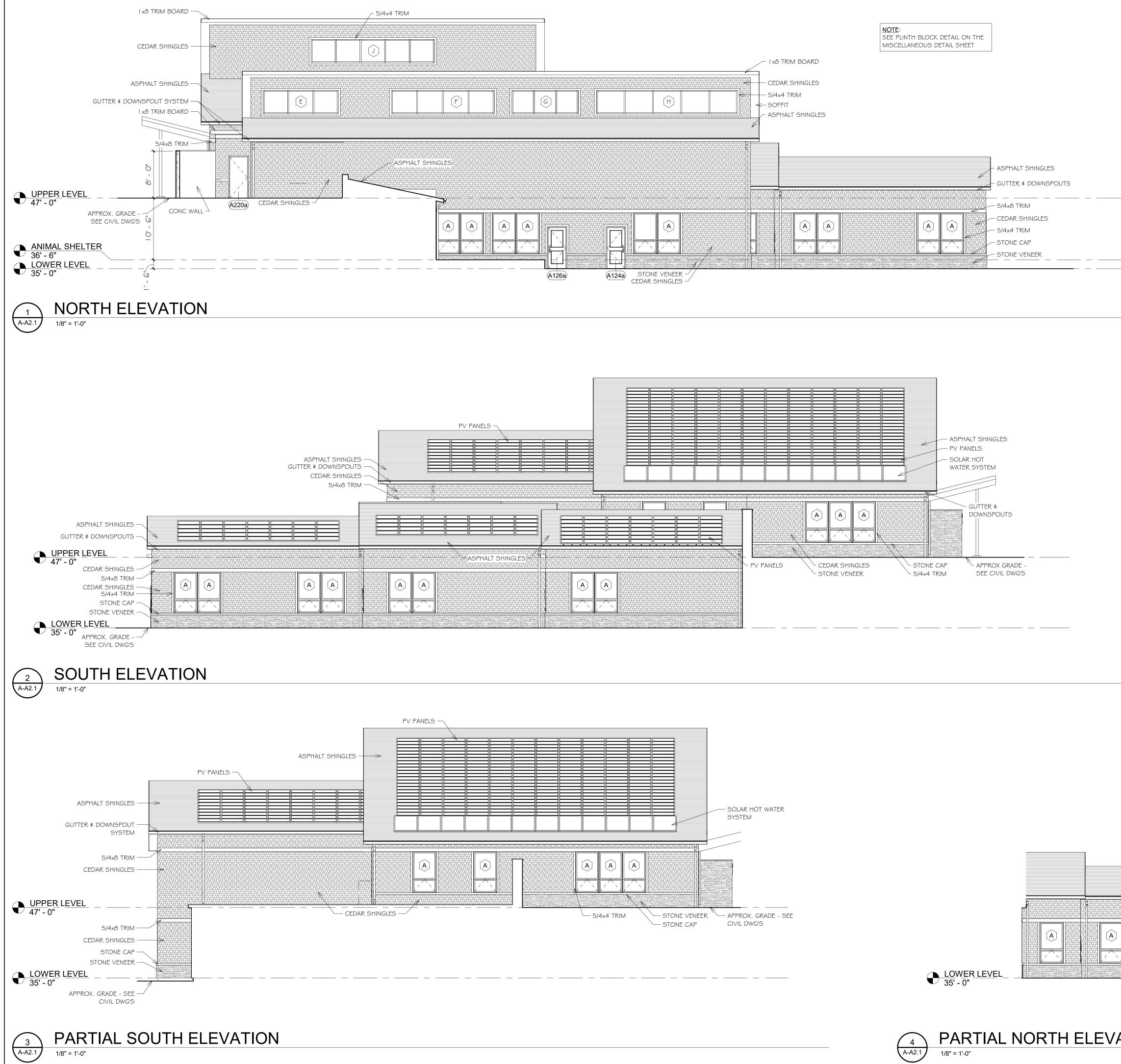




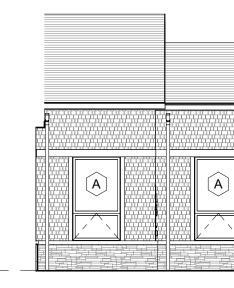




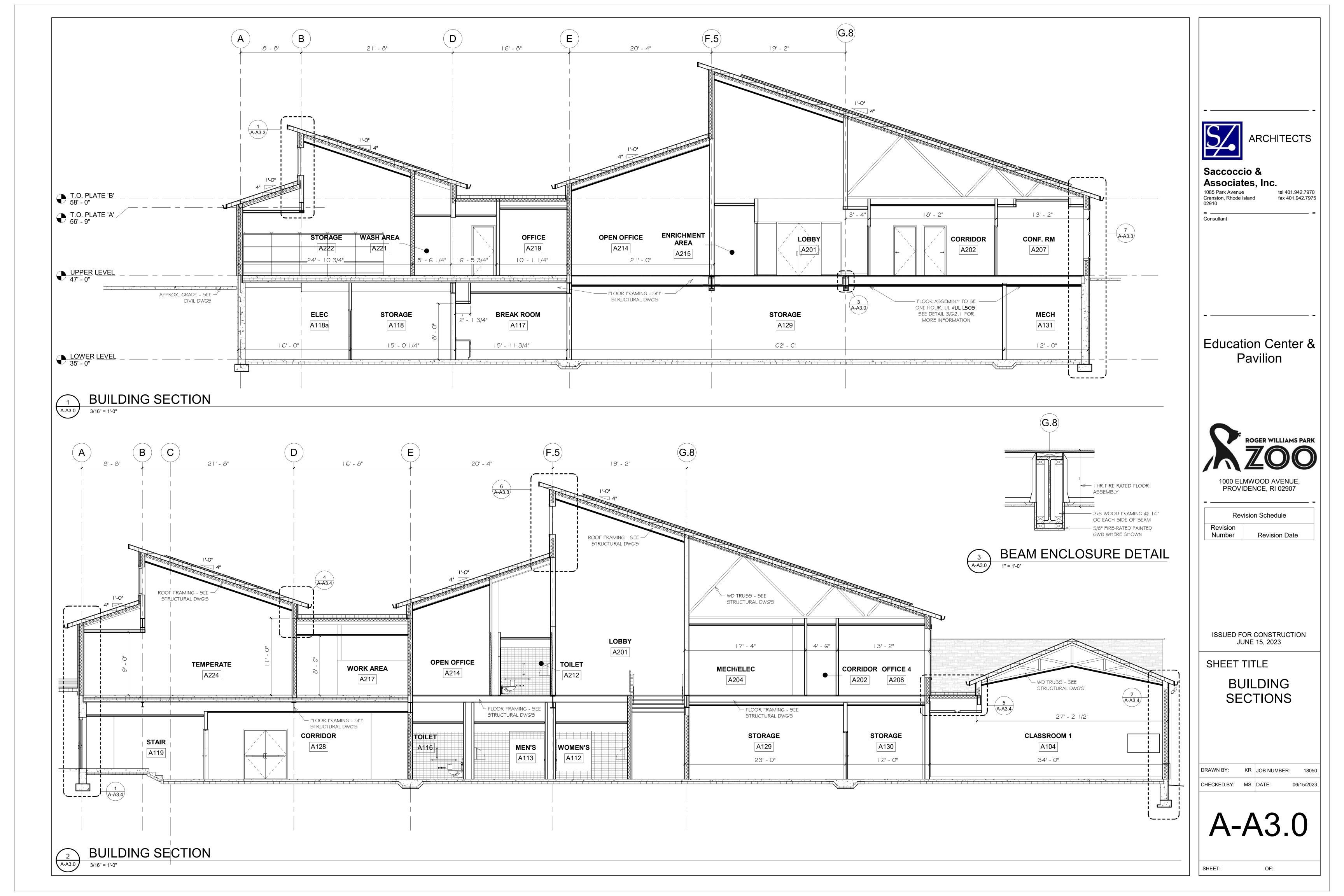


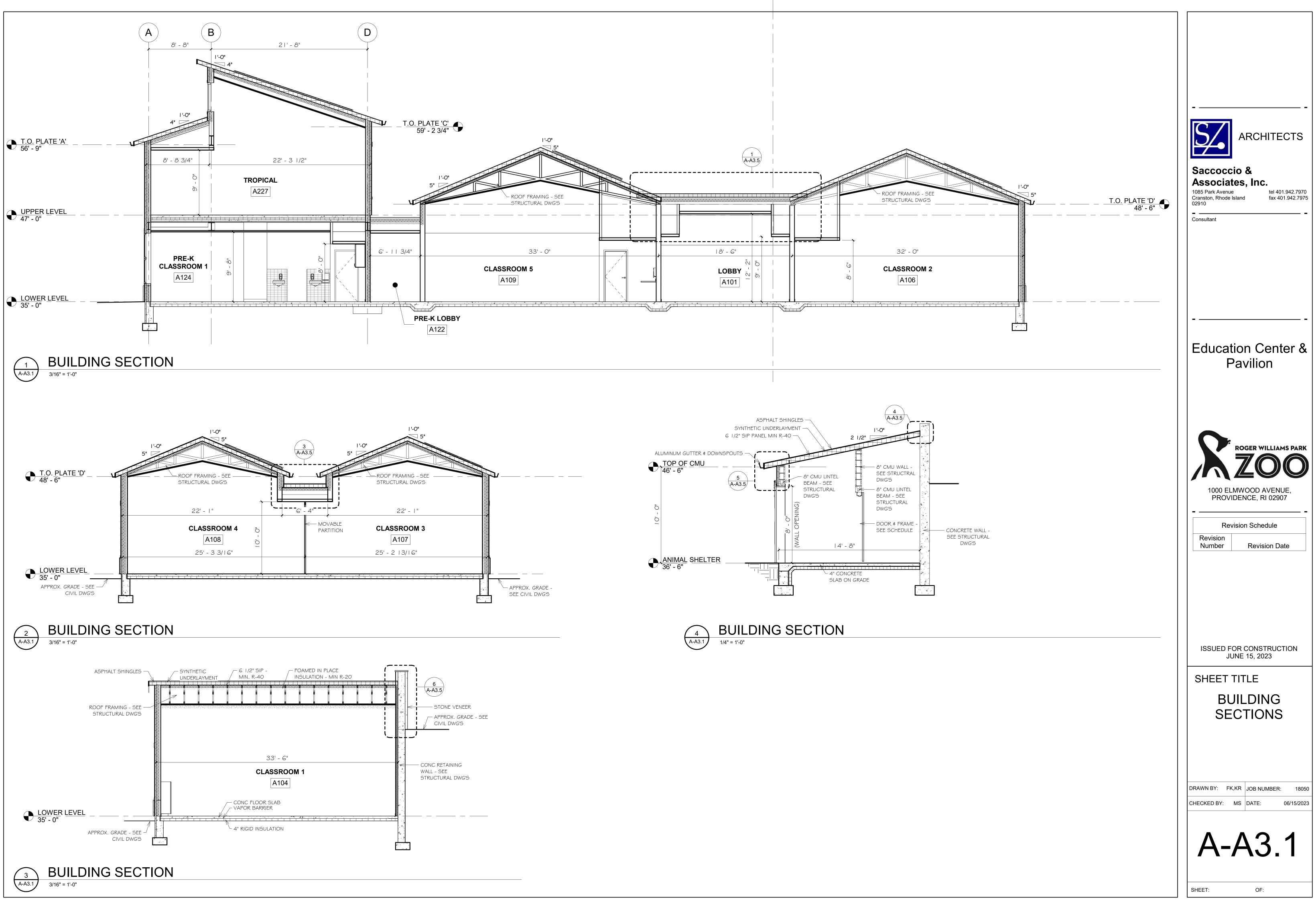


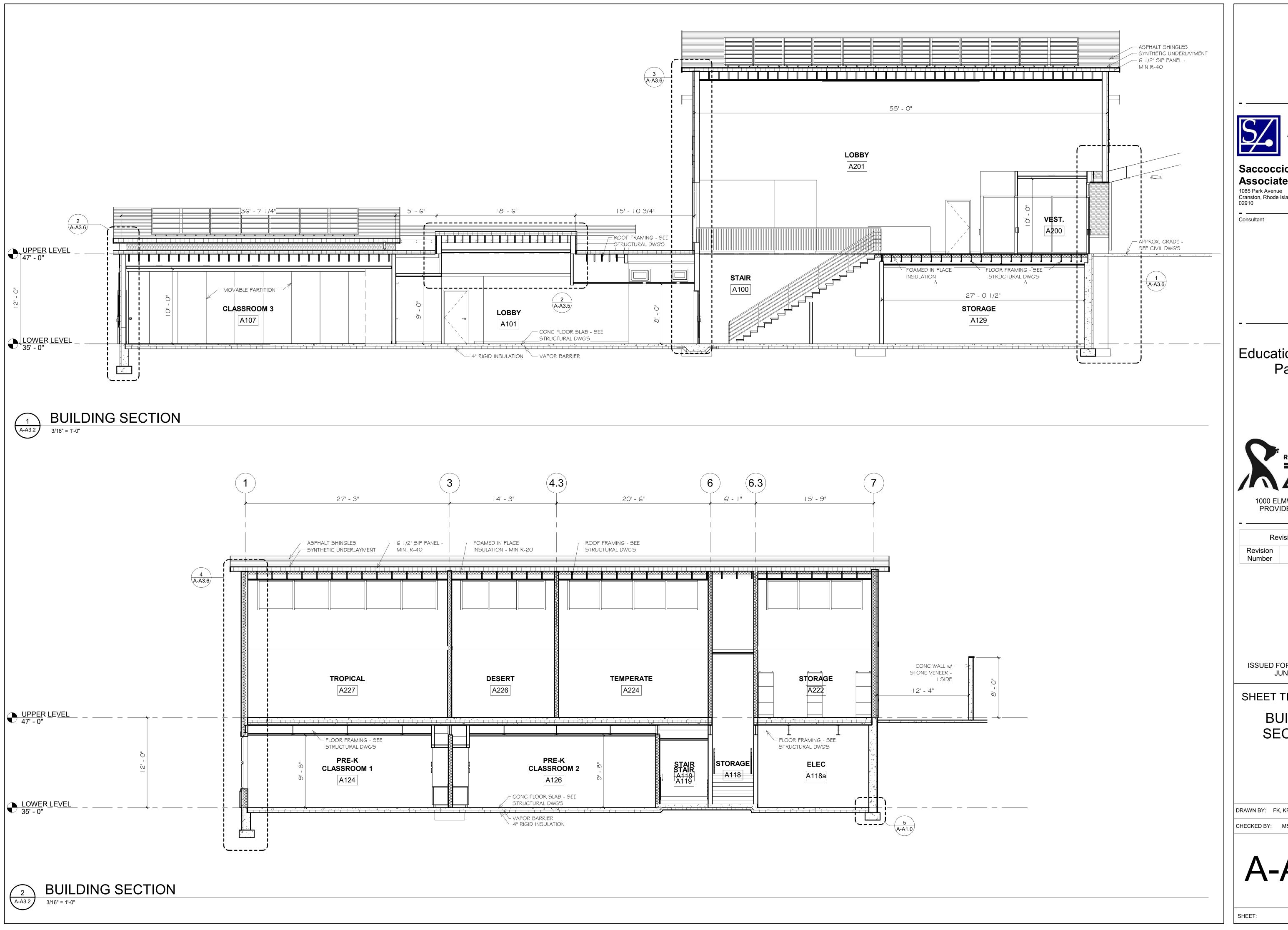




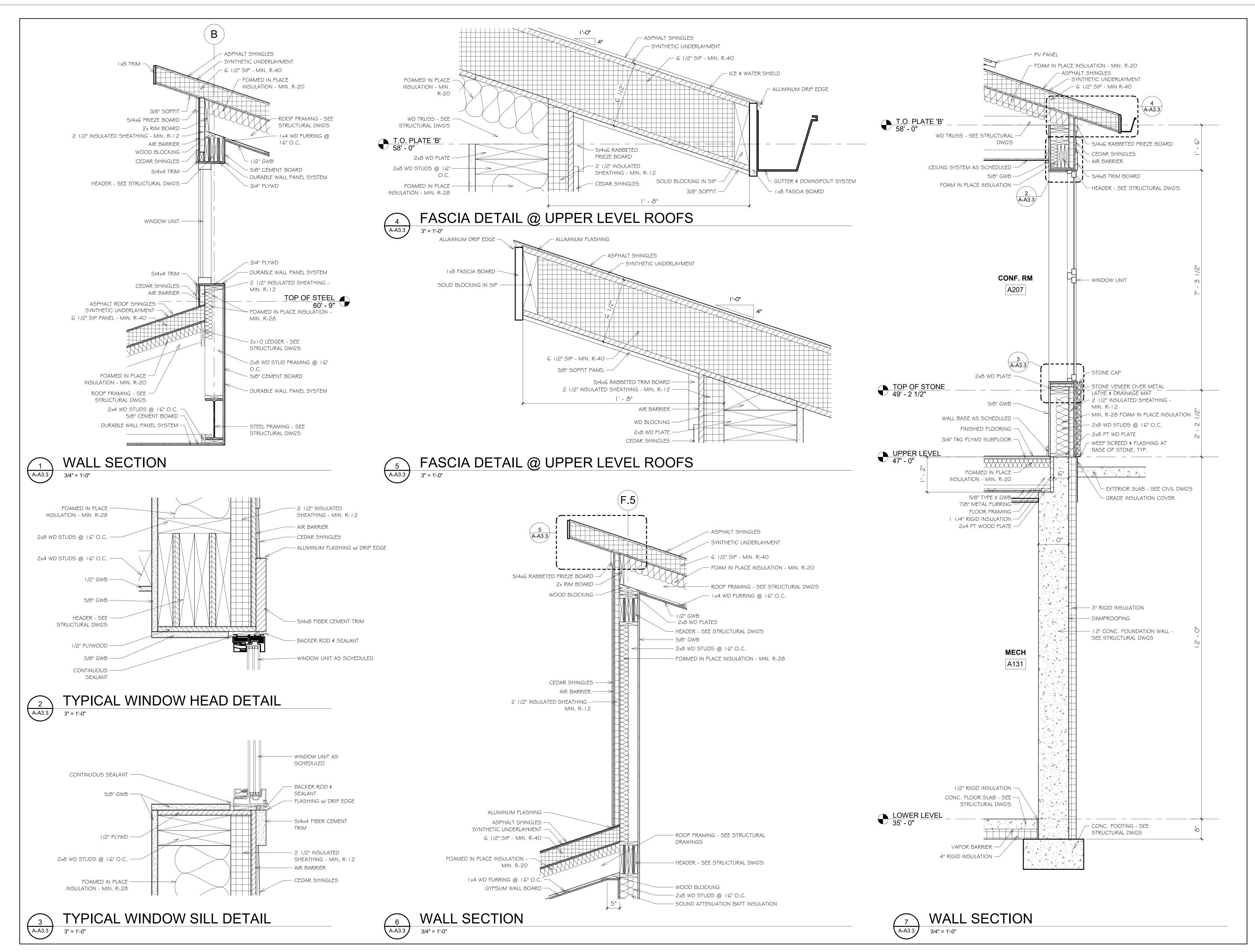
	SolutionARCHITECTSSaccocio & Saccocio Saccocio
-	 Education Center & Pavilion
	Roger Williams Park   ZOOO   J000 ELMWOOD AVENUE, PROVIDENCE, RI 02907     Revision Schedule   Revision   Number   Revision Date
	ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE EXTERIOR ELEVATIONS
ASPHALT SHINGLES GUTTER & DOWNSPOUT SYSTEM CEDAR SHINGLES 5/4x6 TRIM CEDAR SHINGLES 5/4x4 TRIM STONE CAP STONE VENEER APPORX GRADE - SEE CIVIL DWG'S	DRAWN BY: FK,KR JOB NUMBER: 18050 CHECKED BY: MS DATE: 06/15/2023 AA-A21
TION	SHEET: OF:



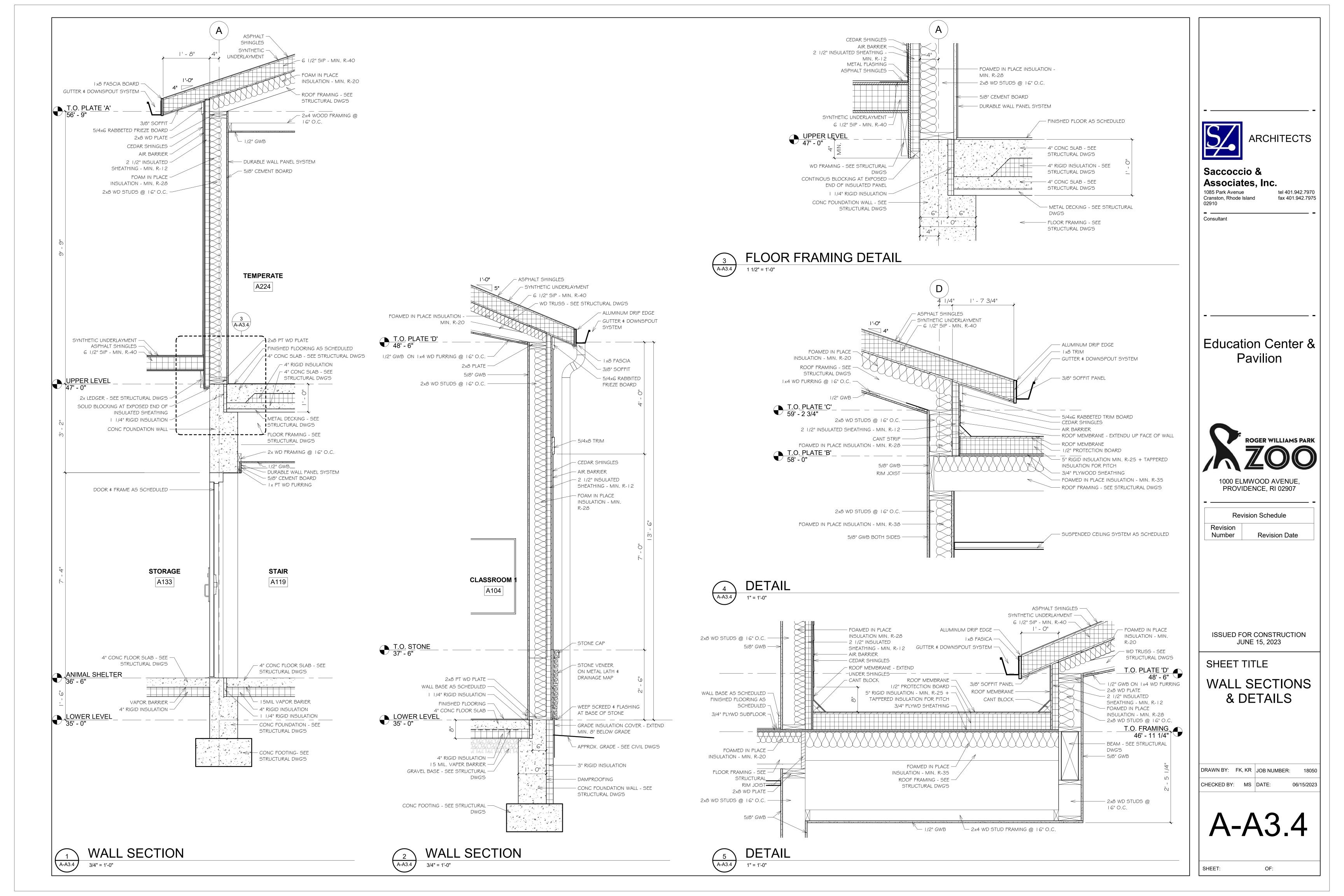


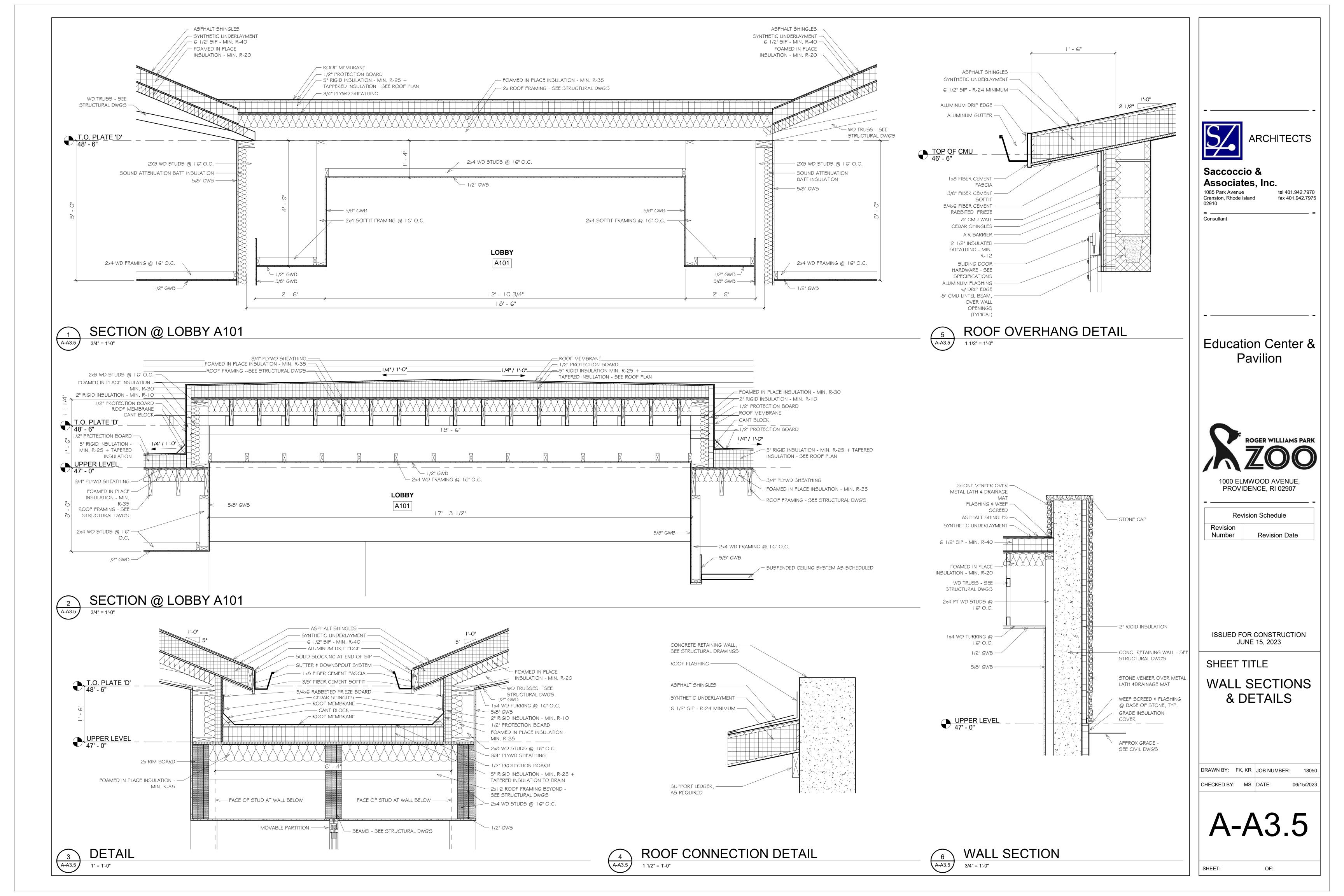


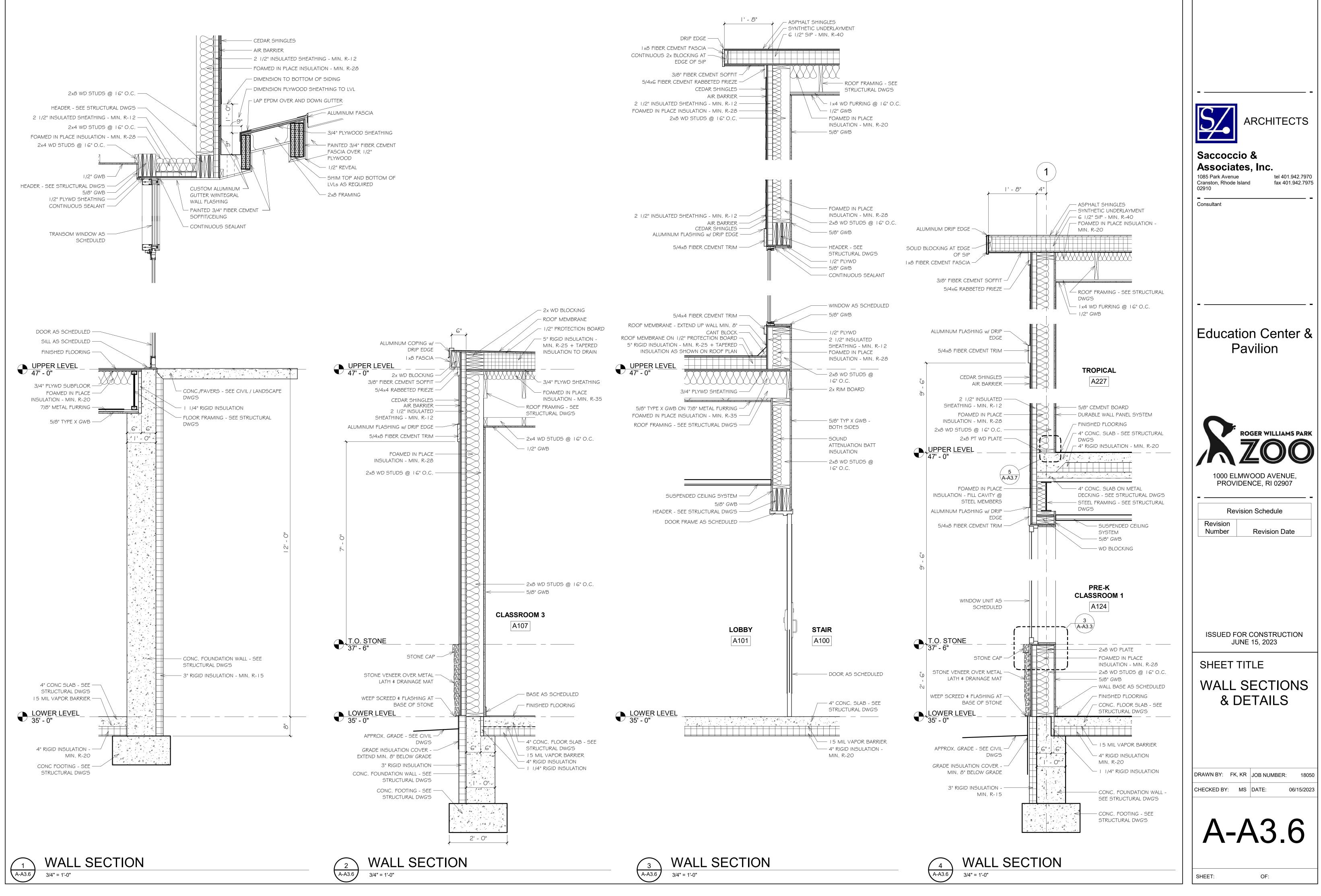
S ARCHITECTS	
Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910	
Consultant	
=	
Education Center & Pavilion	
ROGER WILLIAMS PARK ZOOO 1000 ELMWOOD AVENUE,	
PROVIDENCE, RI 02907   Revision Schedule  Revision Number Revision Date	
ISSUED FOR CONSTRUCTION	
JUNE 15, 2023 SHEET TITLE BUILDING SECTIONS	
DRAWN BY: FK, KR JOB NUMBER: 18050 CHECKED BY: MS DATE: 06/15/2023	
A-A3.2	
SHEET: OF:	

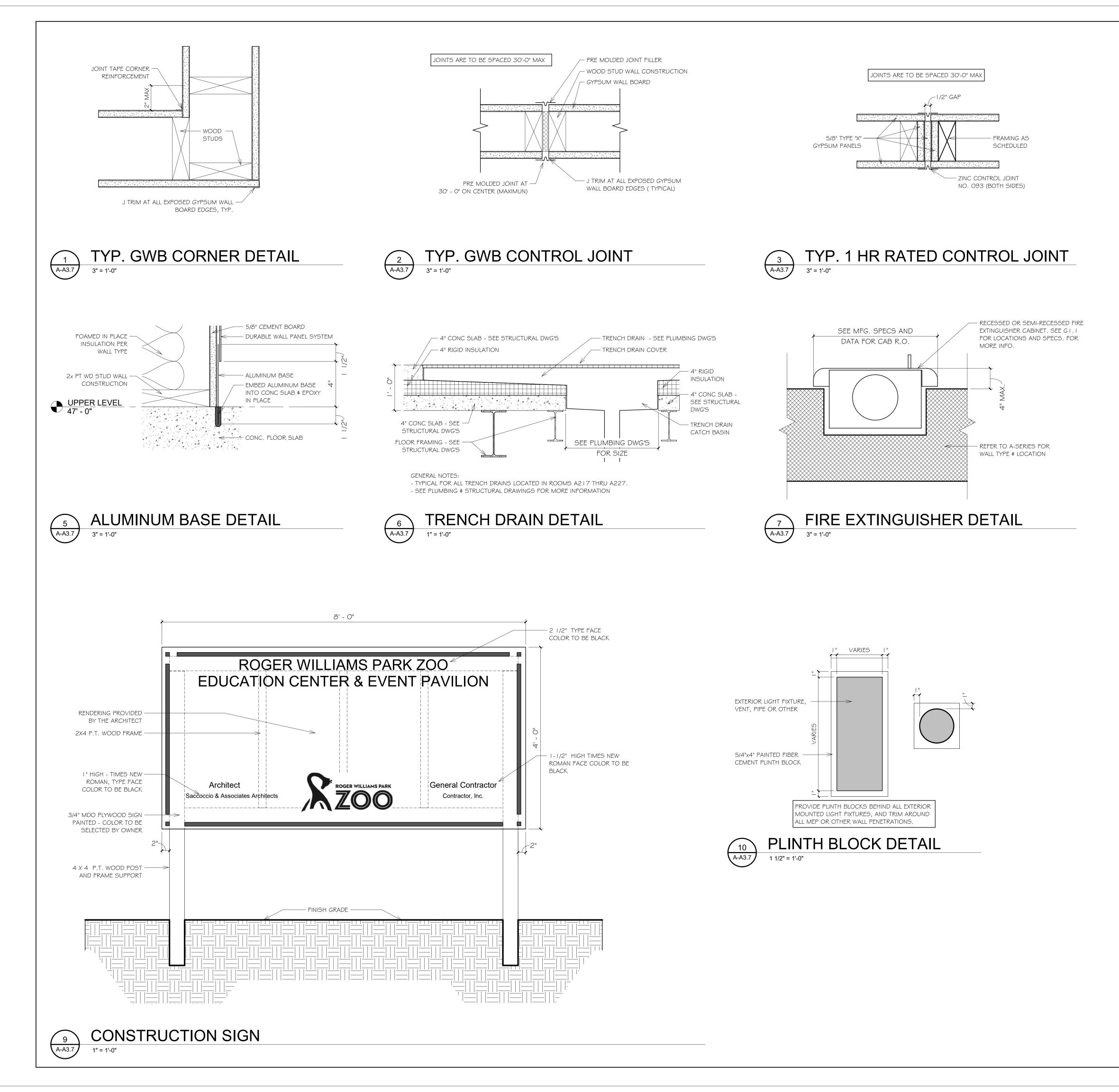


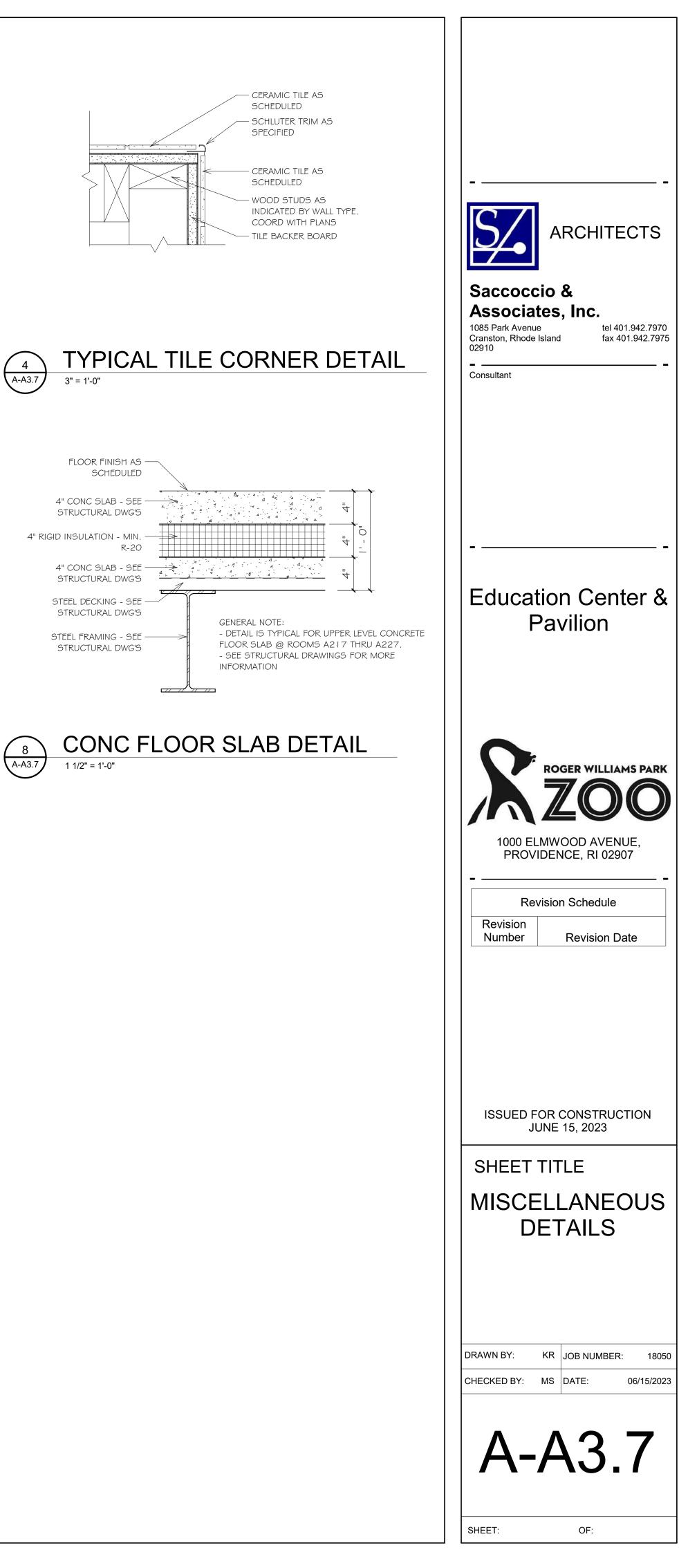
Signature       ARCHITECTS         Saccoccio &       Saccoccio &         Saccoccio &       Lossection         1085 Park Avenue       tel 401.942.7970         Cranston, Rhode Island       tel 401.942.7975         02910       tel 401.942.7975
Consultant
Education Center & Pavilion
Revision Schedule
Revision NumberRevision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023
SHEET TITLE WALL SECTIONS & DETAILS
DRAWN BY: FK, KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 06/15/2023
SHEET: OF:

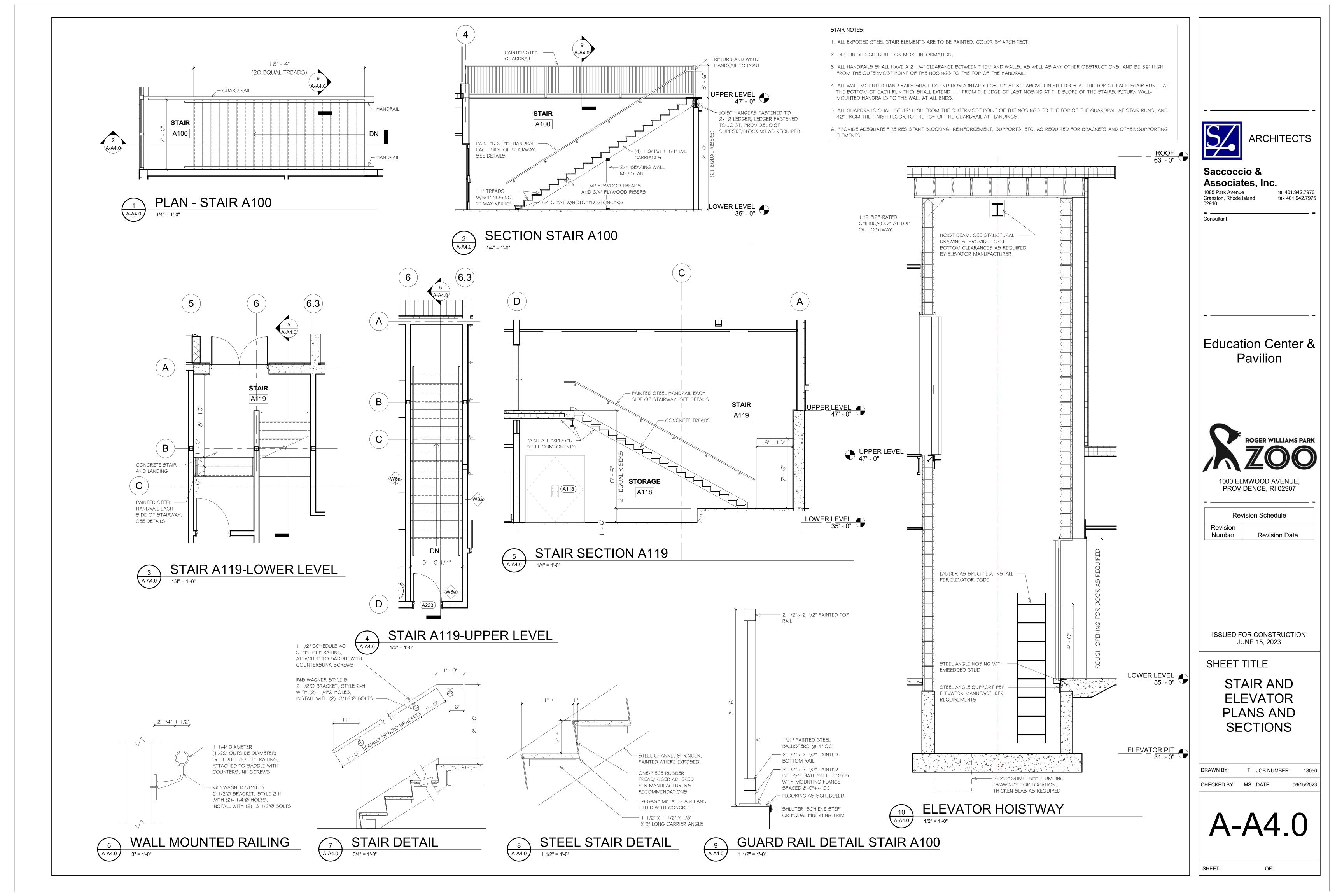


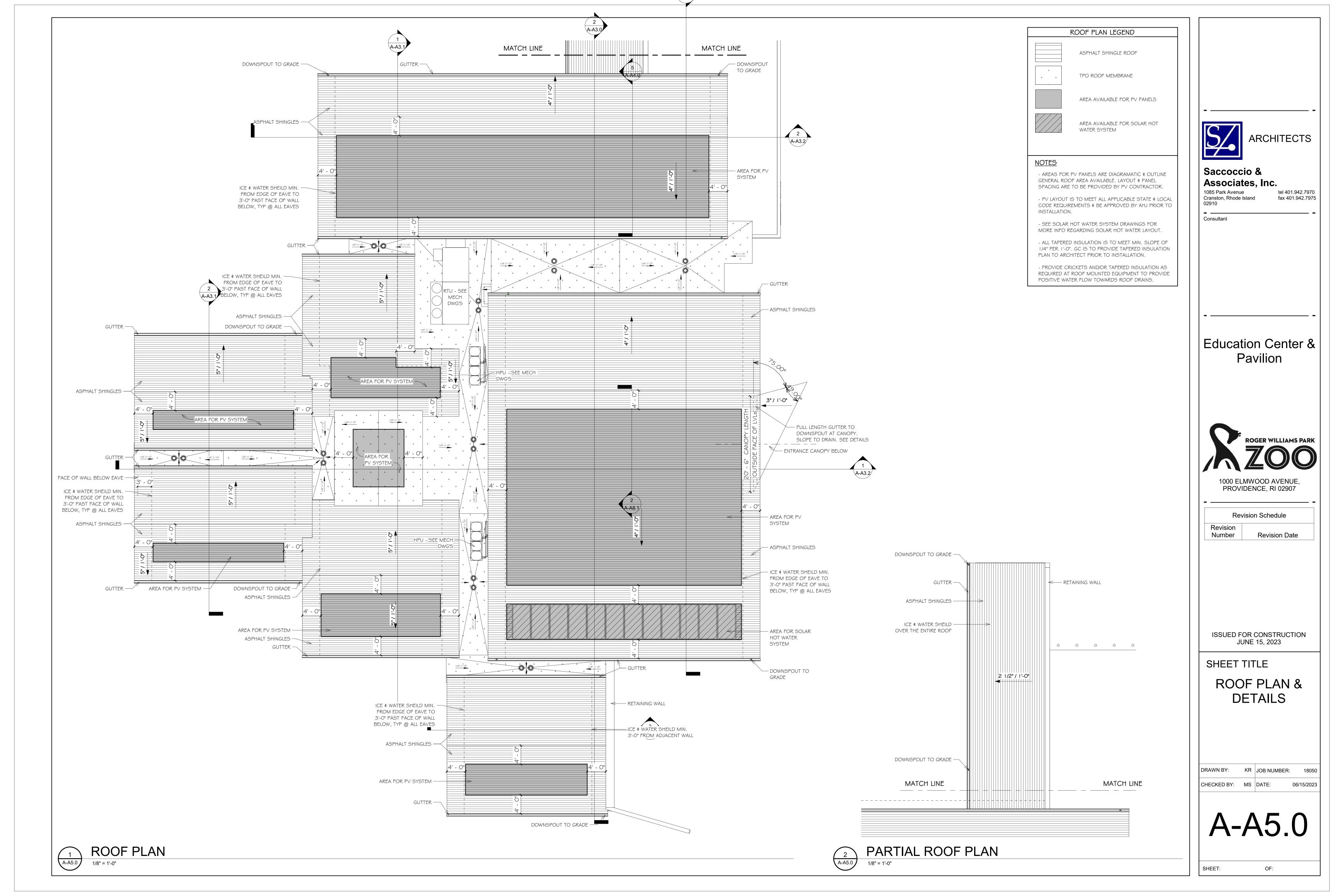


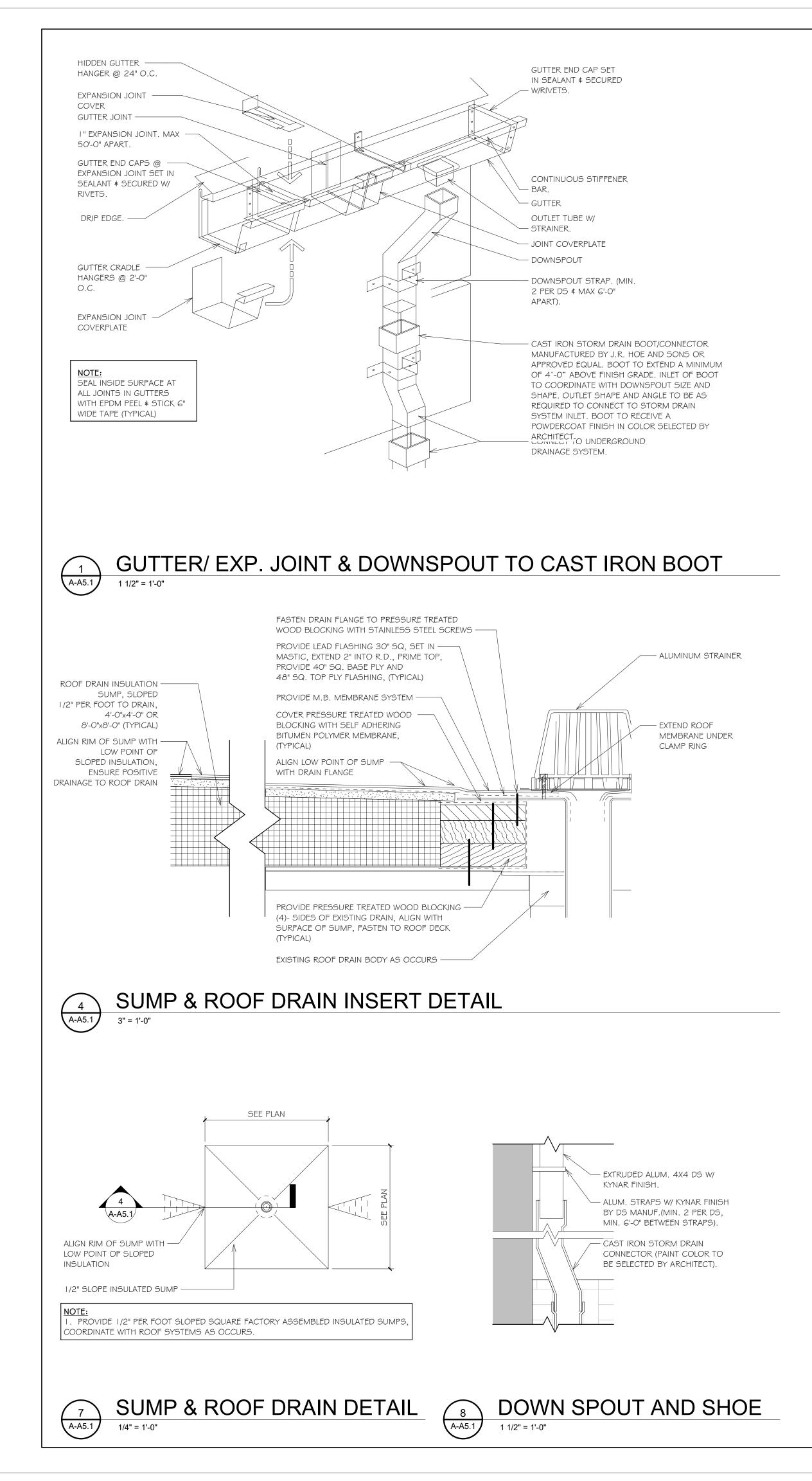


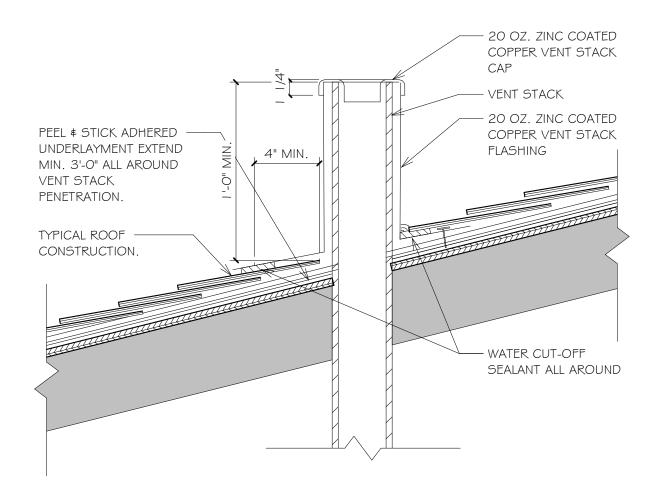


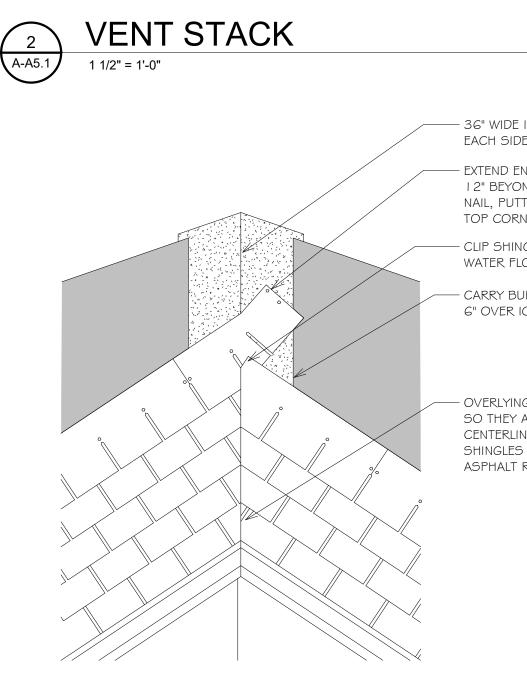












CAULK ALL AROUND -STAINLESS STEEL DRAW BAND CAULK ALL AROUND -RAIN COLLAR -METAL FLANGE – 2X NOMINAL KILN DRIED WD BLOCKING INTEGRAL METAL FLANGE -BY MANUF. GROMMETED FASTENERS AT 4" O.C. METAL EXTENSION LEG -WITH DRIP EDGE. 20 OZ. ZINC COATED COPPER FLASHING EXTEND ONTO TOP OF CURB W/ FULLY SOLDERED SFANA PLYWOOD PEEL & STICK ADHERED -UNDERLAYMENT EXTEND MINIMUM

A-A5.1 1 1/2" = 1'-0"

- 36" WIDE ICE AND WATER SHIELD EACH SIDE OF CENTERLINE OF VALLEY

- EXTEND END SHINGLE AT LEAST I 2" BEYOND THE VALLEY CENTERLINE. NAIL, PUTTING EXTRA FASTENER IN TOP CORNER OF SHINGLE.

- CLIP SHINGLE CORNERS 45° TO KEEP WATER FLOW IN THE VALLEY CENTER.

- CARRY BUILDING FELT AT LEAST 6" OVER ICE AND WATER SHIELD.

- OVERLYING SHINGLES MUST BE CUT SO THEY ARE 2" AWAY FROM VALLEY CENTERLINE. EMBED THE VALLEY SHINGLES IN 2" WIDE STRIP OF ASPHALT ROOFING CEMENT.

BRACKET -HIDDEN GUTTER HANGER @ 18" O.C.



GALV. STEEL

FACTORY CURB

WITH FACTORY

INSTALLED P.T.

MECHANICAL

INSULATION

P.T. WOOD

BLOCKING

9 A-A5.1

RIGID —

WOOD NAILER; SEE

1 1/2" = 1'-0"

VALLEY DETAIL - CLOSED CUT 1 1/2" = 1'-0"

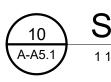
> - .040 ALUM. FLASHING - CONT. BEAD ASPHALTIC MASTIC - CONT. NEOPRENE ROD STOCK ADHERED IN PLACE BY ROOFING CONTRACTOR - BONDING ADHESIVE – CURB FLANGE SET IN WATER CUT-OFF MASTIC - HOT AIR WELDED MEMBRANE FLASHING — HOT AIR WELD - ROOFING MEMBRANE

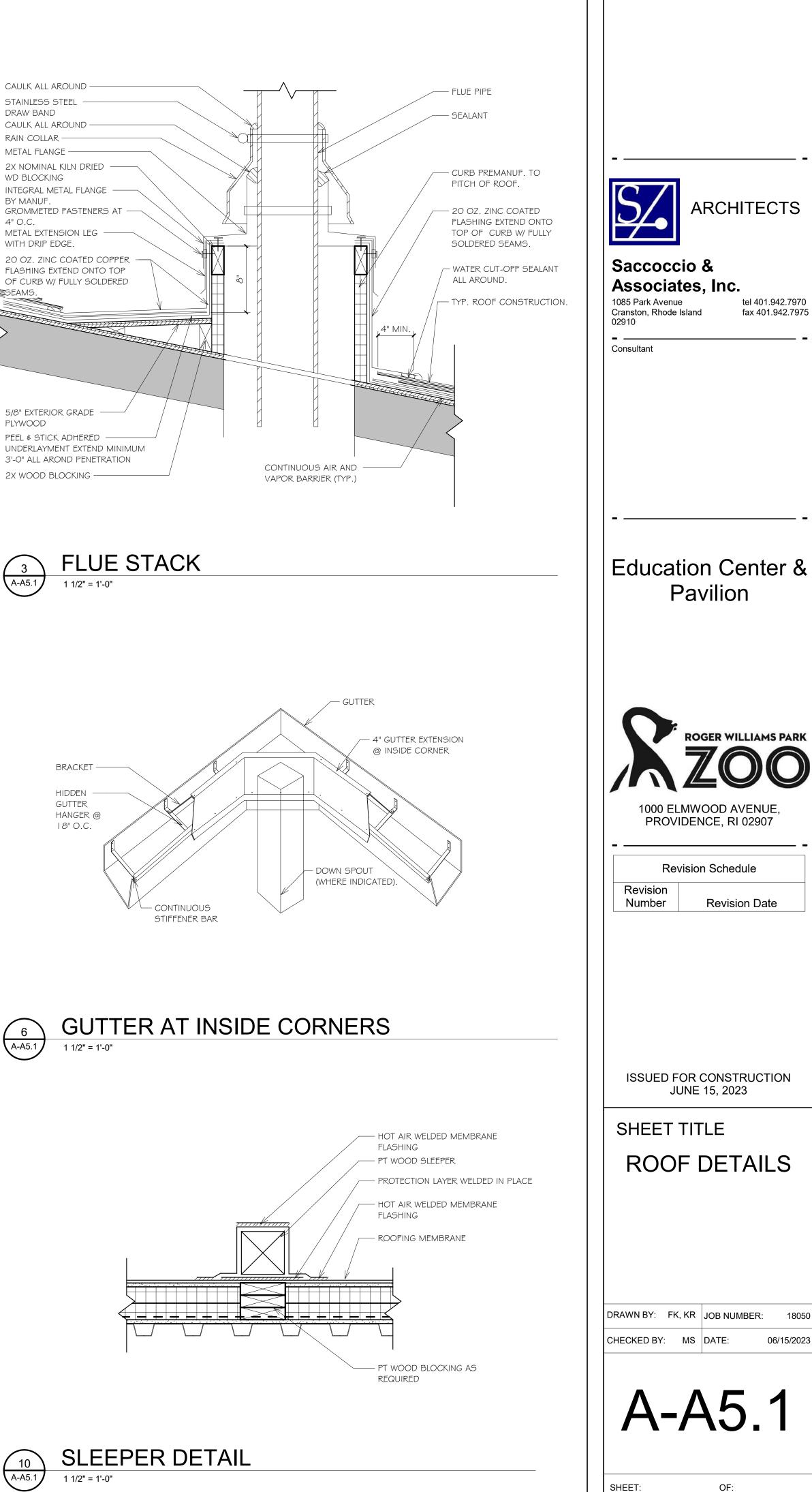
> > - PROTECTION BOARD - RIGID INSULATION - WOOD SHEATHING NEW 2x8 FRAMING AROUND OPENING, COORDINATE WITH STRUCTURAL DRAWINGS



1 1/2" = 1'-0"







SNAPNRACK FLASHED L FOOT FOR COMPOSTION ROOF MOUNTING

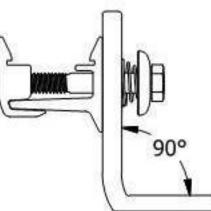
REFER TO SNAPNRACK ENGINEERING CHARTS FOR APPLICABLE RAIL SPANS. "BIN" NUMBER ON CHART SHOULD MATCH "BIN" NUMBER ON THIS DRAWING

 $\frac{5}{16}$  % S.S. LAG SCREW MUST EMBED A MIN. OF  $2\frac{1}{2}$ " INTO STRUCTURAL MEMBER

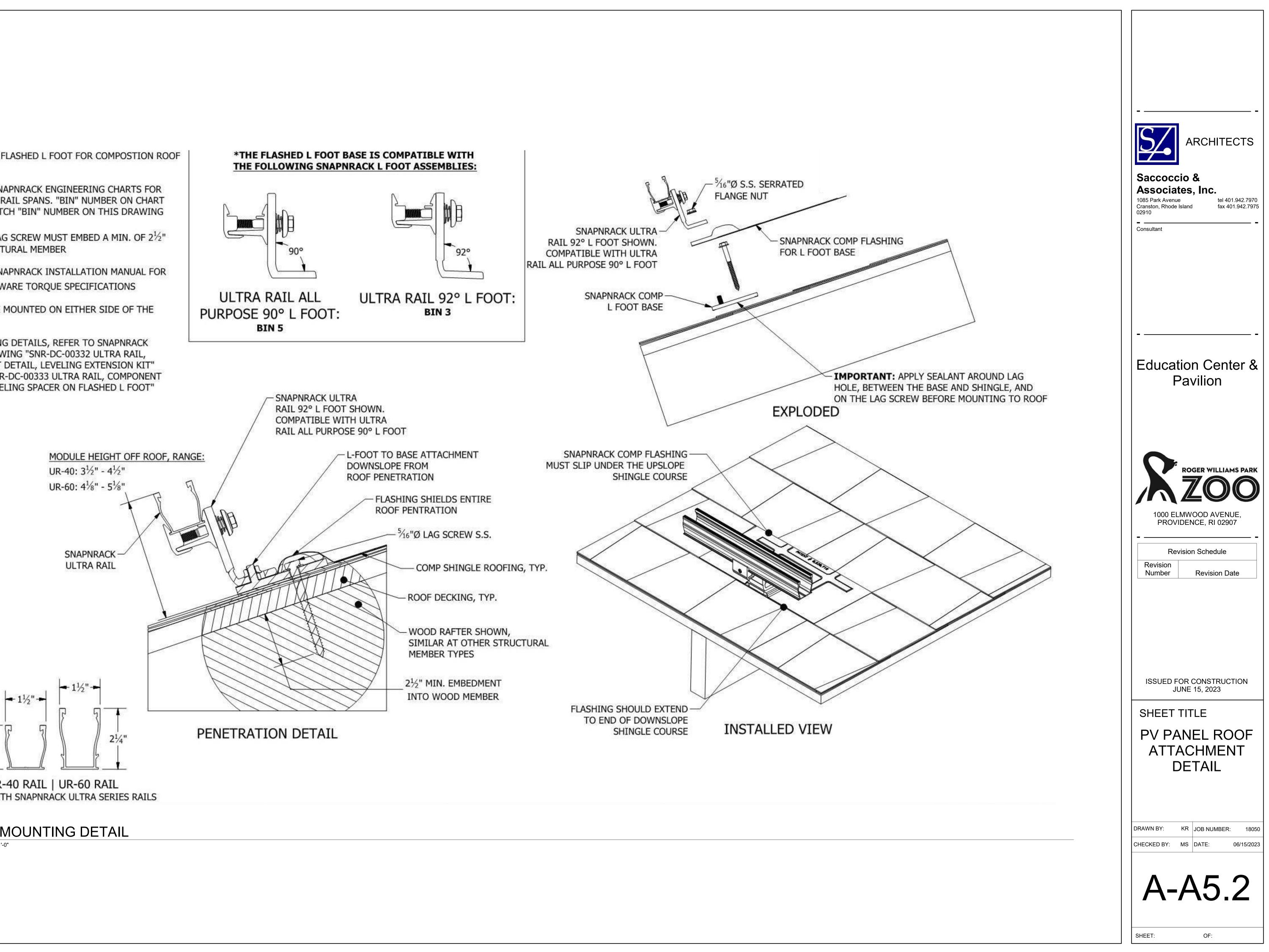
REFER TO SNAPNRACK INSTALLATION MANUAL FOR <sup>5</sup>/<sub>16</sub>"Ø HARDWARE TORQUE SPECIFICATIONS

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"



BIN 5



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



15/8"

DOOR SCHEDULE																
NUMBER	TO ROOM	<b>WIDTH</b>	<b>HEIGHT</b>	0' -   3/4"	DOOR ELEV D7	MATERIAL	FINISH PT	GLAZING FR/SFTY	ELEV F3	FRAME MATERIAL	<b>FINISH</b> PT	FIRE RATING	DET HEAD H2	AILS JAMB	HARDWARE	COMMENTS
A100 A101	LOBBY	3' - 0"	7' - 0"	0' -   3/4"	D7 D5	ALUM	FF	INSUL	F5	ALUM	FF	43 10111	112	JZ	4	WEATHERSTRIPING
A102	NURSE	3' - 0"	7' - 0"	0' -   3/4"	D2	WD	SŧF	TEMP	FI	HM	PT		H2	J2	10	
A102a	TOILET	3' - 0"	7' - 0"	0' -   3/4"	DI	WD	SŧF		FI	HM	PT		H2	J2	16	
A104	CLASSROOM I	3' - 0"	7' - 0"	0' -   3/4"	DE						55				1	
A104a A105	CLASSROOM I STORAGE	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' -   3/4"	D5 D1	ALUM	F S¢F	INSUL	FG FI	ALUM HM	FF PT		H2	J2	10	WEATHERSTRIPING
A105 A106	CLASSROOM 2	3' - 0"	7' - 0"	0' -   3/4"	D1 D3	WD		TEMP	F7	HM	PT		H2	J2 J2	7	
A106a	CLASSROOM 2	3' - 0"	7' - 0"	0' -   3/4"	D5	ALUM	FF	INSUL	F6	ALUM	FF					WEATHERSTRIPING
A107	CLASSROOM 3	3' - 0"	7' - 0"	0' -   3/4"	D3	WD	S¢F	TEMP	F7	HM	PT		H2	J2	7	
A107a	CLASSROOM 3	3' - 0"	7' - 0"	0' -   3/4"	D5	ALUM	FF	INSUL	F6	ALUM	FF					WEATHERSTRIPING
A108 A108a	CLASSROOM 4 CLASSROOM 4	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' -   3/4"	D3 D5	ALUM	S¢F FF	TEMP INSUL	F7 F6	ALUM	PT FF		H2	J2	7	WEATHERSTRIPING
A100a A109	CLASSROOM 5	3' - 0"	7' - 0"	0' -   3/4"	D3	WD	S¢F	TEMP	F7	HM	PT		H2	J2	7	
A109a	CLASSROOM 5	3' - 0"	7' - 0"	0' -   3/4"	D5	ALUM	FF	INSUL	FG	ALUM	FF					WEATHERSTRIPING
A110	TOILET	3' - 0"	7' - 0"	0' -   3/4"	DI	WD	S¢F		F١	HM	PT		H2	J2	16	
A	STORAGE	3' - 0"	7' - 0"	0' -   3/4"	DI	WD	S¢F		FI	HM	PT		H2	J2	20	
A112	WOMEN'S	3' - 0"	7' - 0"	0' -   3/4"	DI	WD	S¢F		FI	HM	PT		H2	J2	8	
AII3	MEN'S	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' -   3/4"	DI	WD	S¢F S¢F		FI	HM	PT PT		H2	J2	8	
AII4 AII5	JAN ELEV MECH	3' - 0"	7 - 0	0' -   3/4"		WD WD	5¢1 S¢F		FI FI	HM HM	PT	45 MIN	H2 H2	J2 J2	20	
AII6	TOILET	3' - 0"	7' - 0"	0' -   3/4"	DI	WD	S¢F		FI	HM	PT		H2	J2 J2	15	
AI17	BREAK ROOM	3' - 0"	7' - 0"	0' -   3/4"	D2	WD	S#F	TEMP	FI	HM	PT		H2	J2	9	
A118	STORAGE	6' - 0"	7' - 0"	0' -   3/4"	DG	WD	SŧF		F3	HM	PT	45 MIN	H2	J2	13	
AII8a	ELEC	6' - 0"	7' - 0"	0' -   3/4"	DG	HM	PT		F3	HM	PT		H2	J2	13	
AI 19	STAIR	6' - 0"	7' - 0"	0' -   3/4"	D8	HM	PT	TEMP	F3	HM	PT		H4	J4	5	
A120	KEEPER	3' - 0"	7' - 0"	0' -   3/4"	DI	WD	S¢F		FI	HM	PT		H2	J2	10	
A121 A122	ENRICHMENT AREA PRE-K LOBBY	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' -   3/4"	DI D5	HM ALUM	PT FF	TEMP	FI	HM ALUM	PT FF		H2 H2	J2 J2	10	
A122a	PRE-K LOBBY	3' - 0"	7' - 0"	0' -   3/4"	D5	ALUM	FF	TEMP	FI	ALUM	FF		H2	J2	2	
A123	VESTIBULE	3' - 0"	7' - 0"	0' - 1 3/4"	D5	ALUM	FF	INSUL	F5	ALUM	FF					WEATHERSTRIPING
A124	PRE-K CLASSROOM I	3' - 0"	7' - 0"	0' -   3/4"	D3	WD	S∉F	TEMP	FI	HM	PT		H2	J2	7	
AT24a	PRE-K CLASSROOM I	3' - 0"	7' - 0"	0' - 1 3/4"	D5	ALUM	FF	INSUL	FI	ALUM	FF					WEATHERSTRIPING
A126	PRE-K CLASSROOM 2	3' - 0"	7' - 0"	0' -   3/4"	D3	WD	S¢F	TEMP	FI	HM	PT		H2	J2	7	
A126a A128	PRE-K CLASSROOM 2 STAIR	3' - 0" 3' - 6"	7' - 0" 7' - 0"	0' -   3/4"	D5 D8	ALUM WD	F	INSUL TEMP	FI F3	ALUM HM	FF PT	45 MIN	H2	J2	17	WEATHERSTRIPING
AT 20 AT 29	STORAGE	6' - 0"	7 - 0	0' -   3/4"	DI	WD		I LIVII	F3	HM	PT	43 1/111	H2	J2 J2	17	
A129a	STORAGE	6' - 0"	6' - 8"	0' -   3/4"	DI	WD	S≰F		F3	HM	PT		H2	J2	13	
A130	STORAGE	6' - 0"	6' - 8"	0' -   3/4"	DI	HM	PT		F3	HM	PT		H2	J2	14	
A131	MECH	6' - 0"	6' - 8"	0' - 1 3/4"	DI	HM	PT		F3	HM	PT		H2	J2	14	
A132	STORAGE	6' - 0"	7' - 0"	0' - 1 3/4"	D8	HM	PT	INSUL	F4	HM	PT				5	WEATHERSTRIPING
A133	KEEPER	3' - 6" 3' - 0"	7' - 0"	0' -   3/4"	D2	GHM	PT FF	TEMP	F2	HM	PT		HI	JI	18	
A134 A134a	SHELTER I SHELTER I	3' - 0"	7' - 0" 8' - 0"	0' -   3/4"	D2 D9	GHM WD	PT	INSUL	F2	HM	PT		HI	JI	18	SLIDING SHIFT DOOR BARN DOOR
A134b	SHELTER 2	3' - 4"	3' - 4"	0' -   3/4"	DJ	GHM	FF									SLIDING SHIFT DOOR
A135	SHELTER 2	3' - 0"	7' - 0"	0' -   3/4"	D2	GHM	FF	INSUL	F2	HM	PT		HI	JI		SLIDING SHIFT DOOR
A135a	SHELTER 2	3' - 4"	8' - 0"	0' - 2 1/4"	D9	WD	PT								-	BARN DOOR
A136	SHELTER 3	3' - 0"	7' - 0"	0' -   3/4"	D2	GHM	FF	INSUL	F2	HM	PT		ΗI	JI	18	SLIDING SHIFT DOOR
AI36a	SHELTER 3	4' - 0"	8' - 0"	0' - 2 1/4"	D9	WD	PT								-	BARN DOOR
A137 A137a	SHELTER 4 SHELTER 4	3' - 0" 4' - 0"	7' - 0" 8' - 0"	0' -   3/4"	D2	GHM WD	FF PT	INSUL	F2	HM	PT		HI	JI		SLIDING SHIFT DOOR BARN DOOR
A137a A137b	SHELTER 4	3' - 4"	0 - 0 3' - 4"	0' - 2 1/4"	D9 DI	GHM	FF									SLIDING SHIFT DOOR
A138	SHELTER 5	3' - 0"	7' - 0"	0' -   3/4"	D1 D2	GHM	FF	INSUL	F2	HM	PT		НЛ	JI		SLIDING SHIFT DOOR
A138a	SHELTER 5	4' - O"	8' - 0"	0' - 2 1/4"	D9	WD	PT								-	BARN DOOR
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' -   3/4"	D7	ALUM	FF	TEMP		ALUM	FF		H2	J2		
A202		3' - 0"	7' - 0"	0' -   3/4"	D4	WD WD	S¢F	TEMP	FI	HM	PT		H2	J2	3	
A2O3 A2O4	TOILET MECH/ELEC	3' - 0"	7' - 0" 7' - 0"	0' -   3/4"		WD WD	S¢F S¢F		FI FI	HM HM	PT PT		H2 H2	J2 J2	15	
A204 A205	OFFICE 6	3' - 0"	7' - 0" 7' - 0"	0' -   3/4"	D1 D3	WD		TEMP	FI FI	HM	PT		н2 Н2	J2 J2	12	
A206	OFFICE 5	3' - 0"	7' - 0"	0' -   3/4"	D3	WD	S\$F	TEMP	FI	HM	PT		H2	J2	10	
A207	CONF. RM	3' - 0"	7' - 0"	0' -   3/4"	D4	WD	SŧF	TEMP	F١	HM	PT		H2	J2	10	
A208	OFFICE 4	3' - 0"	7' - 0"	0' -   3/4"	D3	WD	S¢F	TEMP	FI	HM	PT		H2	J2	10	
A210	OFFICE 2	3' - 0"	7' - 0"	0' -   3/4"	D3	WD	S¢F	TEMP	FI	HM	PT		H2	J2	10	
A212	TOILET	3' - 0"	7' - 0"	0' -   3/4"	DI	WD	S¢F	TEMO	FI	HM	PT		H2	J2	15	
A213 A214	BREAK RM. OPEN OFFICE	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' -   3/4"	D2 D4	WD WD	S¢F S¢F	TEMP TEMP	FI FI	HM HM	PT PT		H2 H2	J2 J2	9	
A214 A215	ENRICHMENT AREA	3' - 0"	7 - 0	0' -   3/4"	D4 D4	ALUM	FF	TEMP	1 1	ALUM	FT FF		H2	J2 J2		
A216	ELEV LOBBY	3' - 0"	7' - 0"	0' -   3/4"	D2	WD	S¢F	TEMP	FI	HM	PT		H2	J2	9	
A217		3' - 0"	7' - 0"	0' -   3/4"	D2	HM	PT	TEMP	FI	HM	PT		H2	J2	9	
A217a	ELEV LOBBY	3' - 0"	7' - 0"	0' -   3/4"	D2	HM	PT	TEMP	F١	HM	PT		H2	J2	3	
A218	OFFICE I	3' - 0"	7' - 0"	0' -   3/4"	D3	WD	S≰F	TEMP	FI	HM	PT		H2	J2	10	
A219		3' - 0"	7' - 0"	0' -   3/4"	D3	HM	PT	TEMP	FI	HM	PT		H2	J2	10	
A220 A220a	VESTIBULE VESTIBULE	3' - 0" 3' - 0"	7' - 0" 7' - 0"	0' -   3/4"	D2 D2	HM	PT PT	TEMP INSUL	FI FI	HM HM	PT PT		H2	J2	9	
A220a A221	OFFICE 3	3' - 0"	7 - 0	0' -   3/4"	D2 D3	WD	 S¢F	TEMP	FI	HM	PT		H2	J2	10	
A222	STORAGE	6' - 0"	7' - 0"	0' -   3/4"	DG	HM	PT		F3	HM	PT		H2	J2	13	
A223	STAIR	3' - 0"	7' - 0"	0' -   3/4"	D2	HM	PT	TEMP	FI	HM	PT		H2	J2	9	
A224	TEMPERATE	6' - 0"	7' - 0"	0' -   3/4"	D2	HM	PT	TEMP	F3	HM	PT		H2	J2	19	
A226	DESERT	6' - 0"	7' - 0"	0' -   3/4"	D2	HM	PT	TEMP	F3	HM	PT		H2	J2	19	
A227	TROPICAL	6' - 0"	7' - 0"	0' -   3/4"	D2	HM	PT	TEMP	F3	HM	PT		H2	J2	19	1

### DOOR SCHEDULE NOTES

I. ANY DOOR (UNLESS EXISTING) FOUND ON OTHER DRAWINGS BUT NOT INDICATED ON THE DOOR SCHEDULE SHALL BE CONSIDERED MINIMALLY AS A 3'-O" x 7'-O" 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.

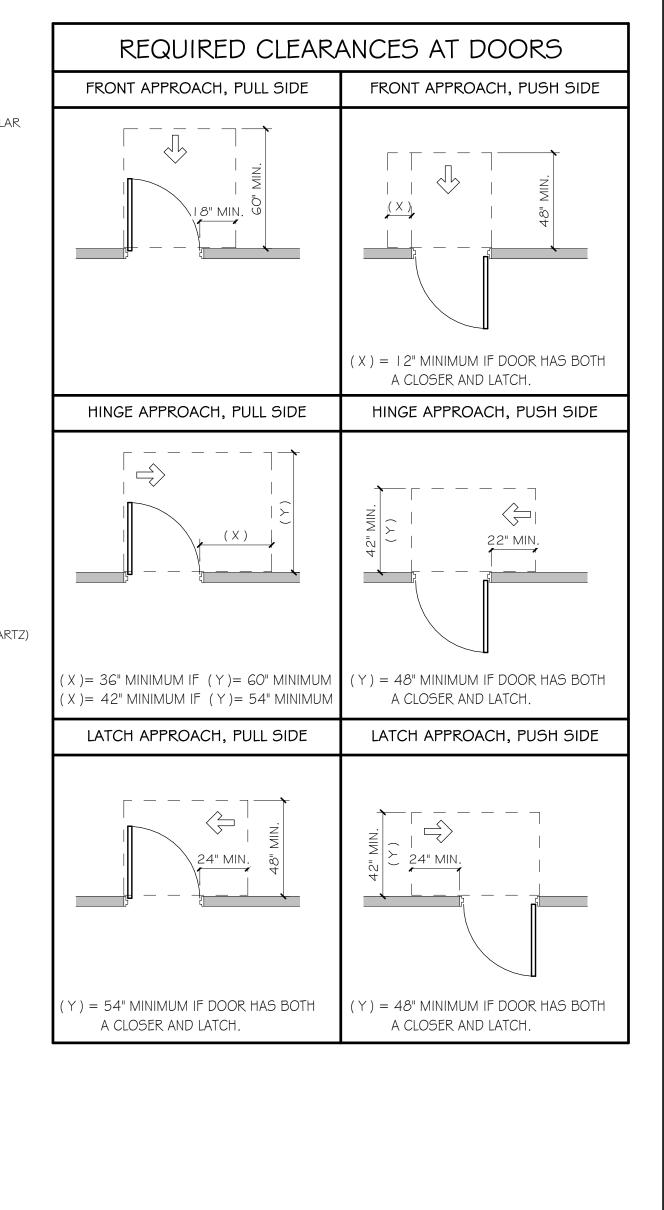
5. ALL WD DOORS ARE SOLID CORE WOOD DOORS AND ARE TO RECEIVE CLEAR FINISHES.

6. ALL HM DOORS AND FRAMES ARE TO BE PAINTED.

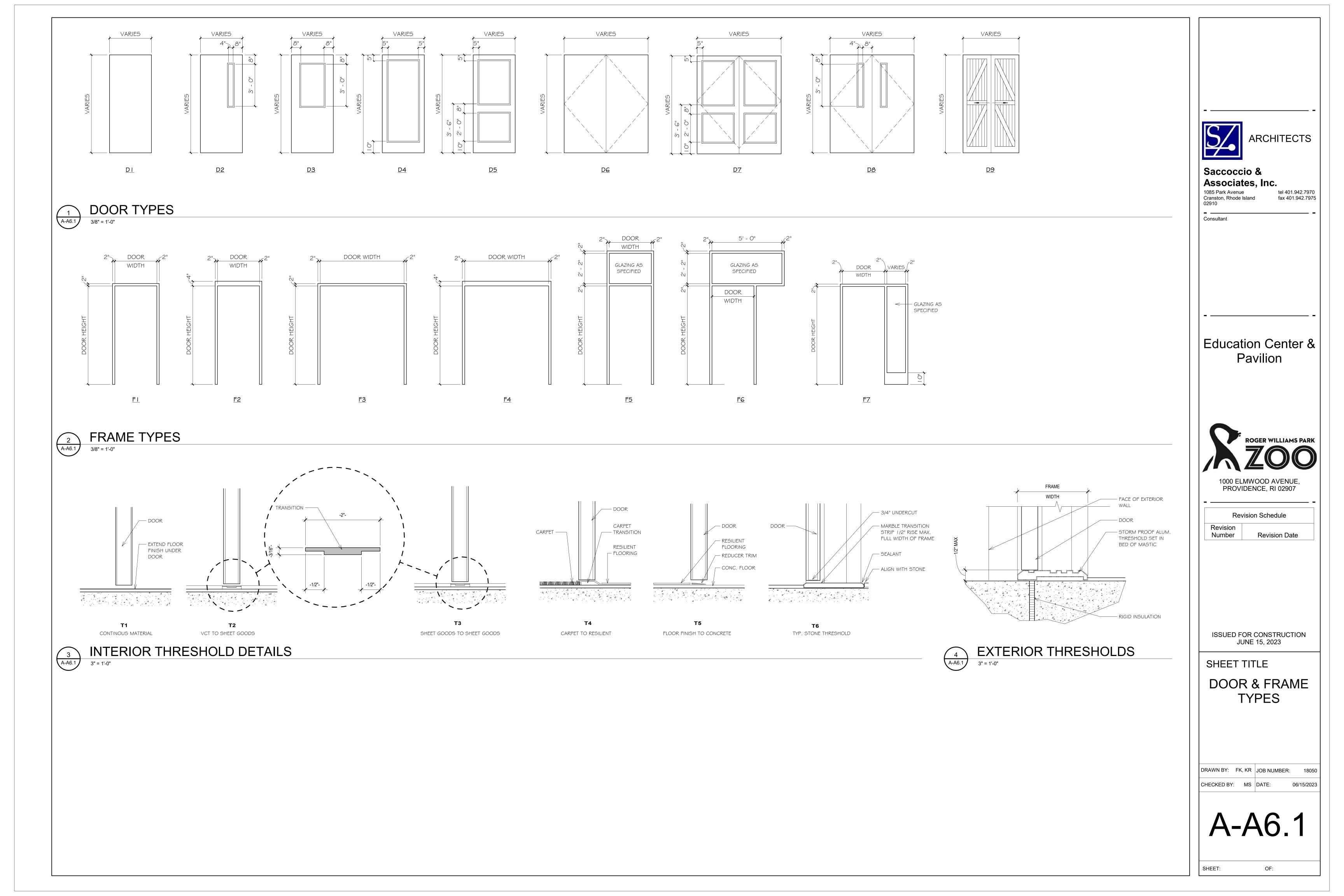
7. FIRE RATINGS AND EXIT DEVICES SHALL BE PROVIDED PER THE APPLICABLE CODE.

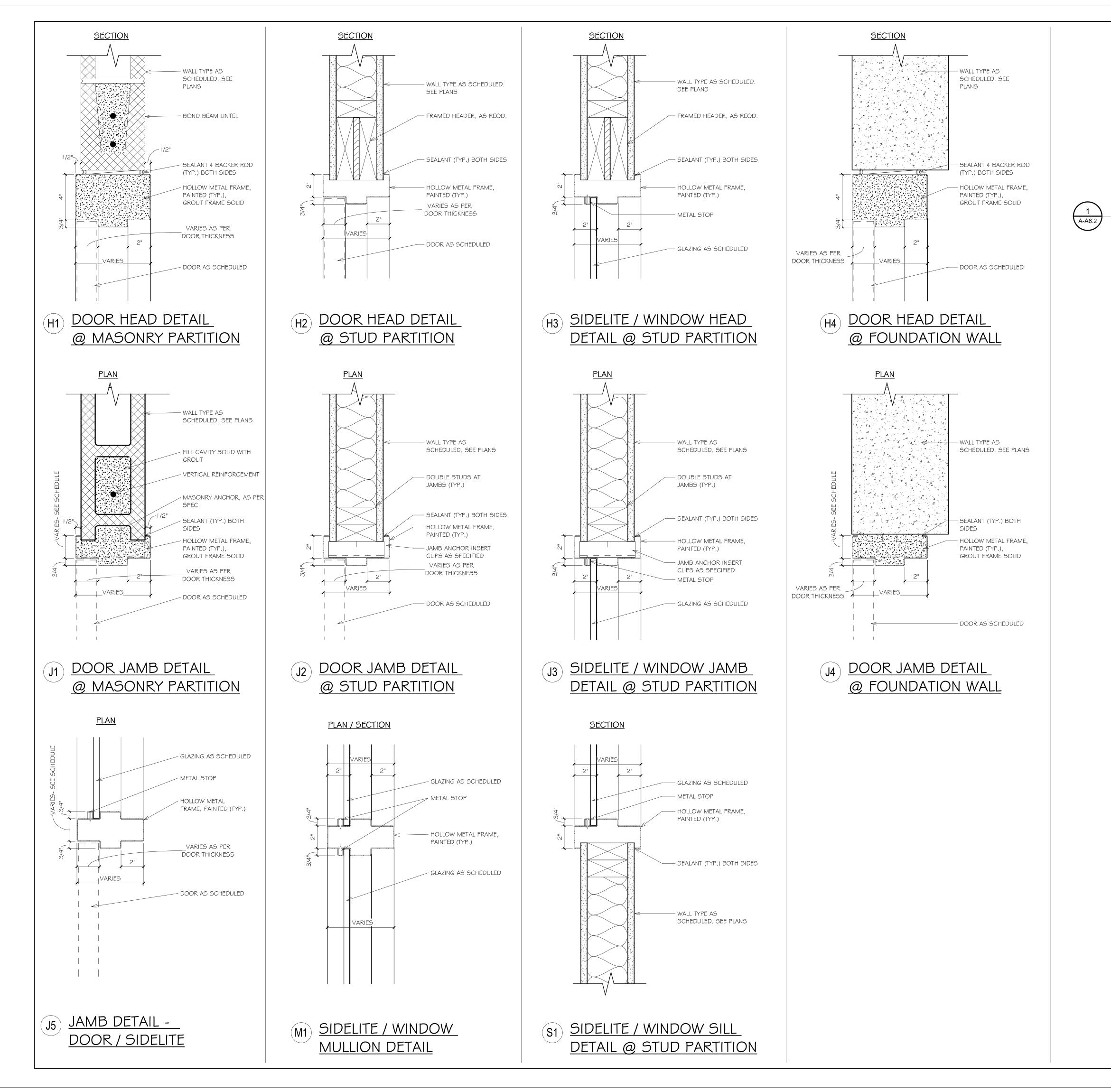
### SCHEDULE LEGEND

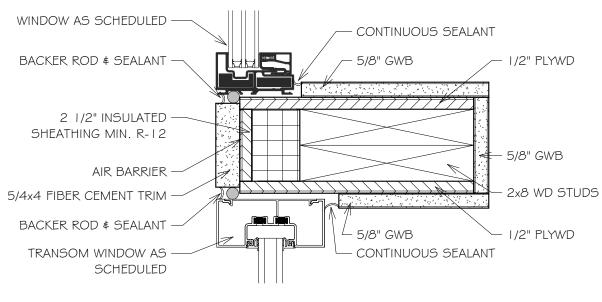
- = NO WORK NEEDED ACT = ACOUSTICAL CEILING TILE ACTT = ACOUSTICAL CEILING TILE-TEGULARALUM = ALUMINUMB = BASE CBB = CEMENTITIOUS BACKER BOARDCMU = CONCRETE MASONRY UNIT CONC = CONCRETE CFT = CERAMIC FLOOR TILE CWT = CERAMIC WALL TILE CRPT = BROADLOOM CARPET CPTT = CARPET TILEECT = ENTRANCE CARPET TILE EXT = EXISTINGFF = FACTORY FINISHED FIN = FINISHFLR = FLOORFRP = FIBERGLASS REINFORCED PANEL FRS = FIRE-RATED SAFETY GLASS GWB = GYPSUM WALL BOARDGHM = GALVANIZED HOLLOW METALHM = HOLLOW METALINSUL = INSULATED MAS = MASONRYMAT = MATERIALMRT = MOISTURE RESISTANT TILE OTS = OPEN TO STRUCTURE PT = PAINTRAF = RESILIENT ATHLETIC FLOORING RM = ROOMRMK = REMARK S¢F = STAIN ¢ FINISH SDT = STATIC DISSIPATING TILE SEAL = SEALED CONCRETE SS = SOLID SURFACING MATERIAL (QUARTZ) SV = SHEET VINYL SWG = SPECIAL WALL GLAZETEMP = TEMPERED VAS = VERIFY AT SITEVCB = VINYL COVE BASEVCT = VINYL COMPOSITE TILE VT = VINYL TILEVWC = VINYL WALL COVERING WD = WOOD



ARCHITECTS
Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910
Consultant
 Education Center &
Pavilion
ROGER WILLIAMS PARK
1000 ELMWOOD AVENUE, PROVIDENCE, RI 02907
Revision Number Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023
SHEET TITLE
DRAWN BY: KR JOB NUMBER: 18050 CHECKED BY: MS DATE: 06/15/2023
A-A6.0
SHEET: OF:

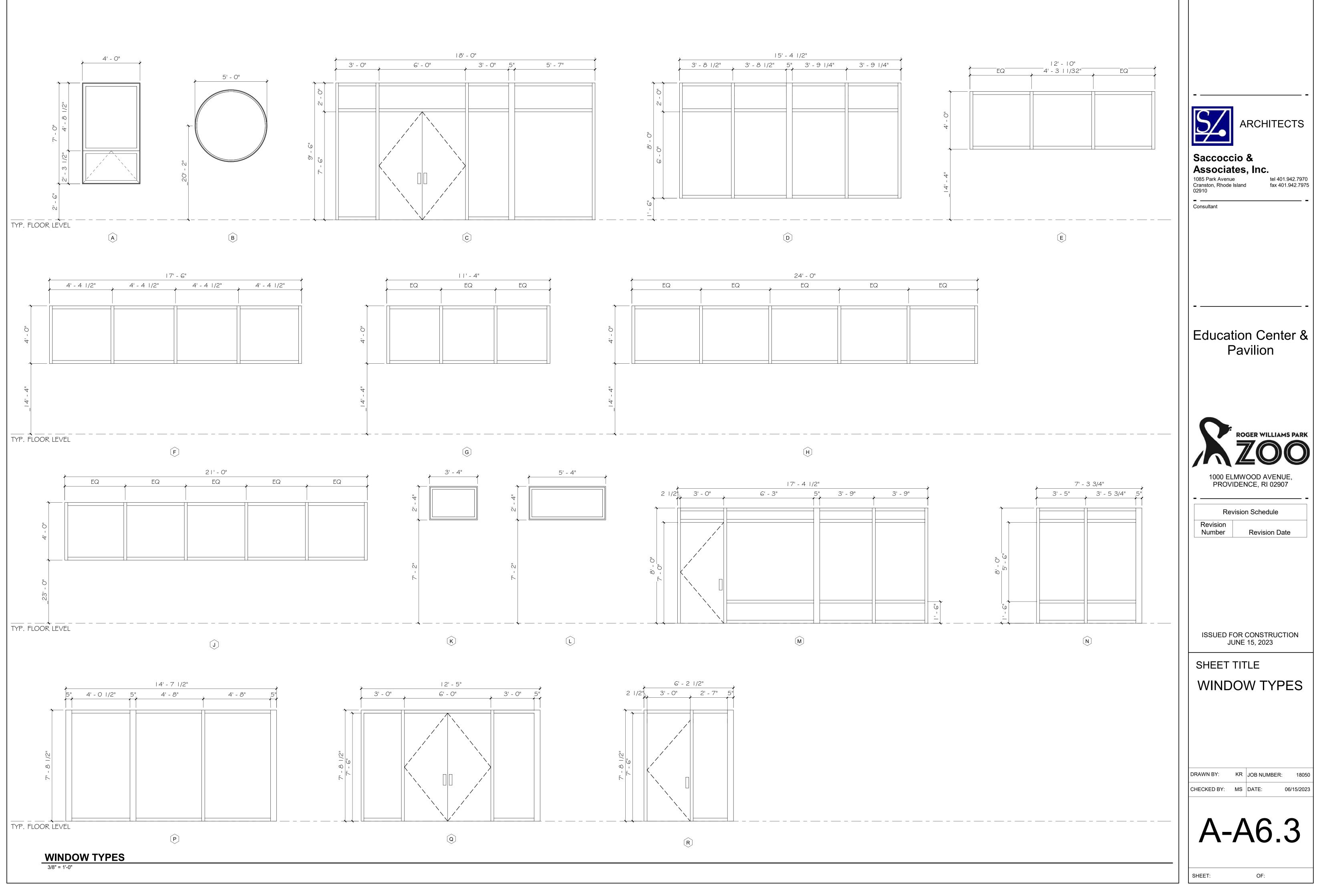


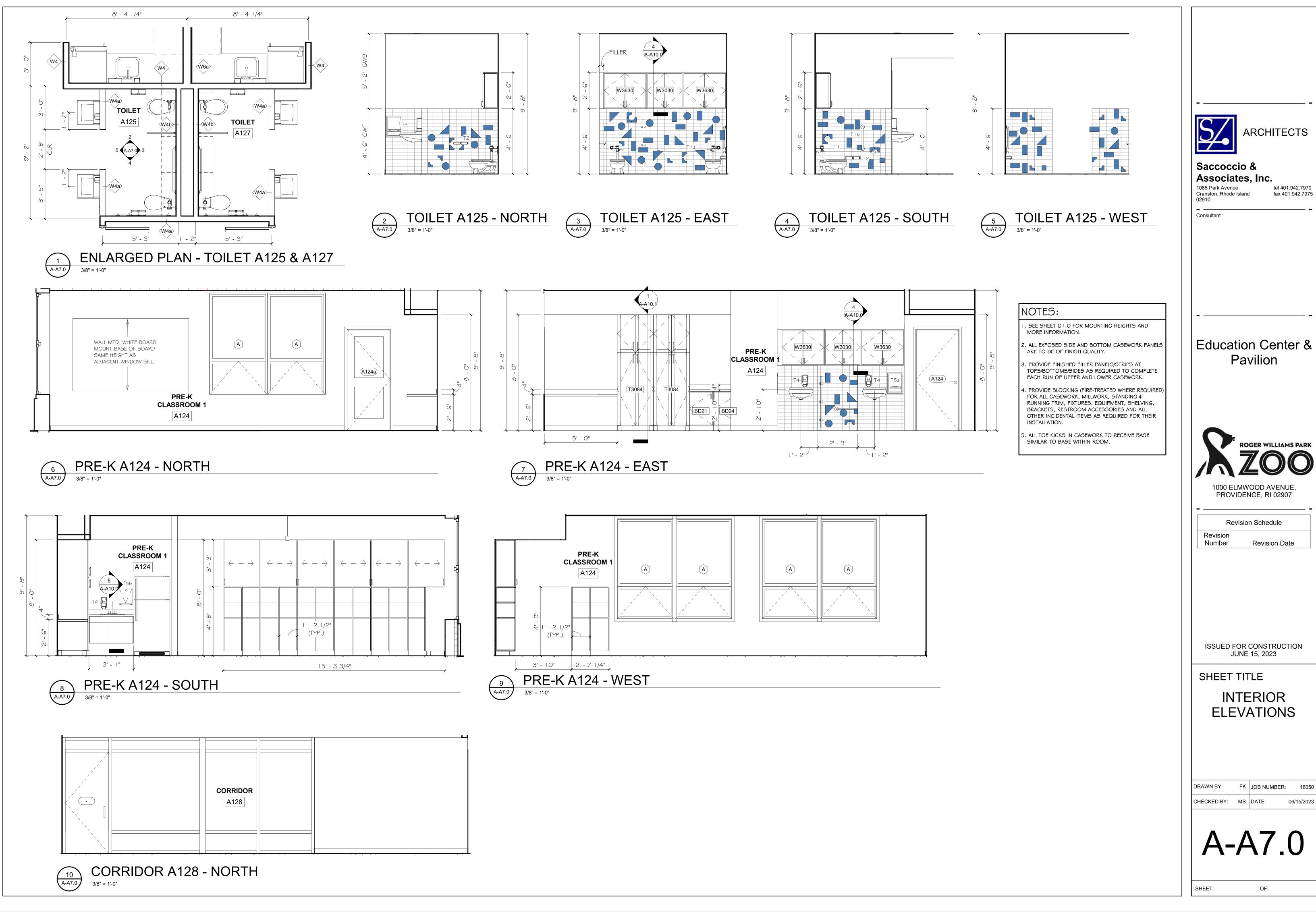


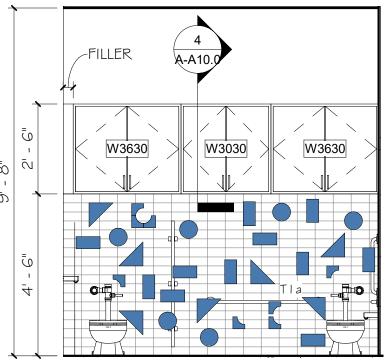


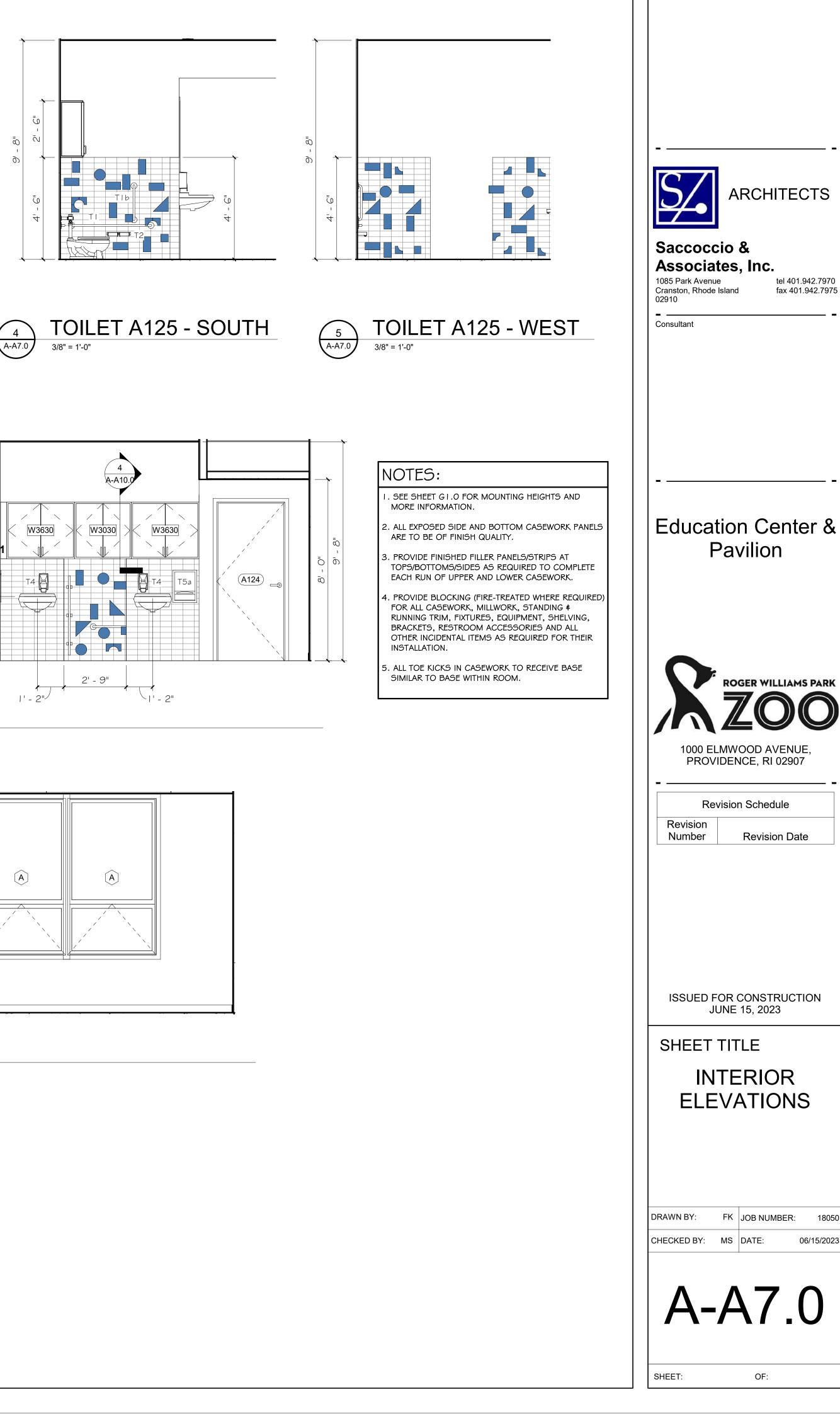
## DOOR FRAME TO WINDOW DETAIL 3" = 1'-0"

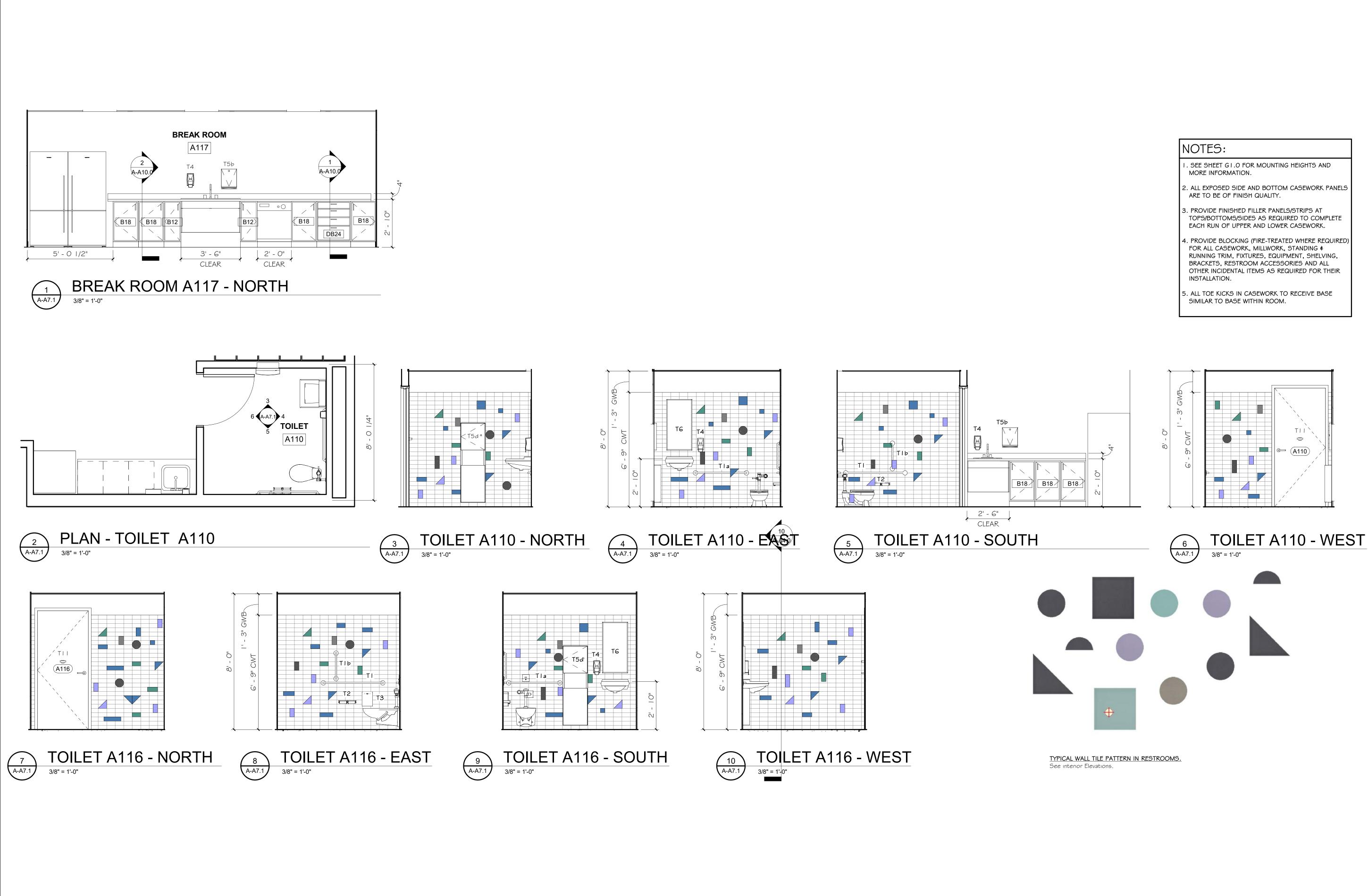
Image: Symplectic symple
 Education Center & Pavilion
Roger williams park   ZOOO   Automatical Structure Struc
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE DOOR & WINDOW DETAILS
DRAWN BY: KR JOB NUMBER: 18050 CHECKED BY: MS DATE: 06/15/2023 AA-AA6.2 SHEET: OF:

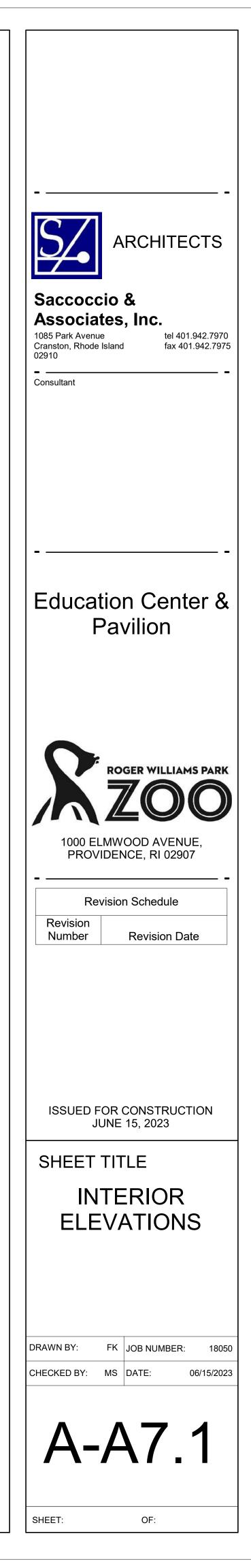




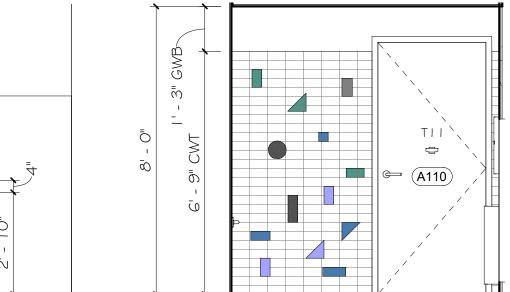


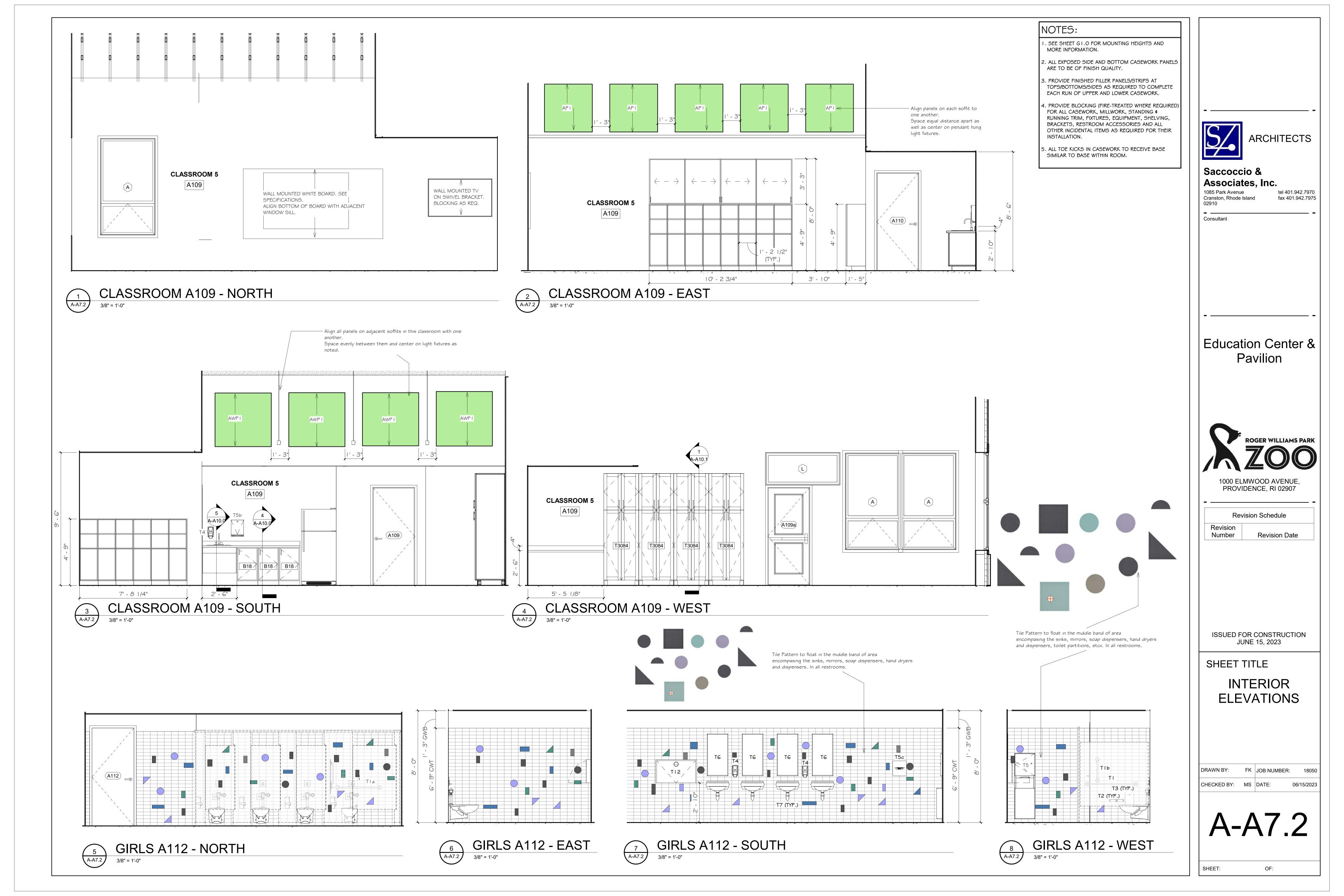


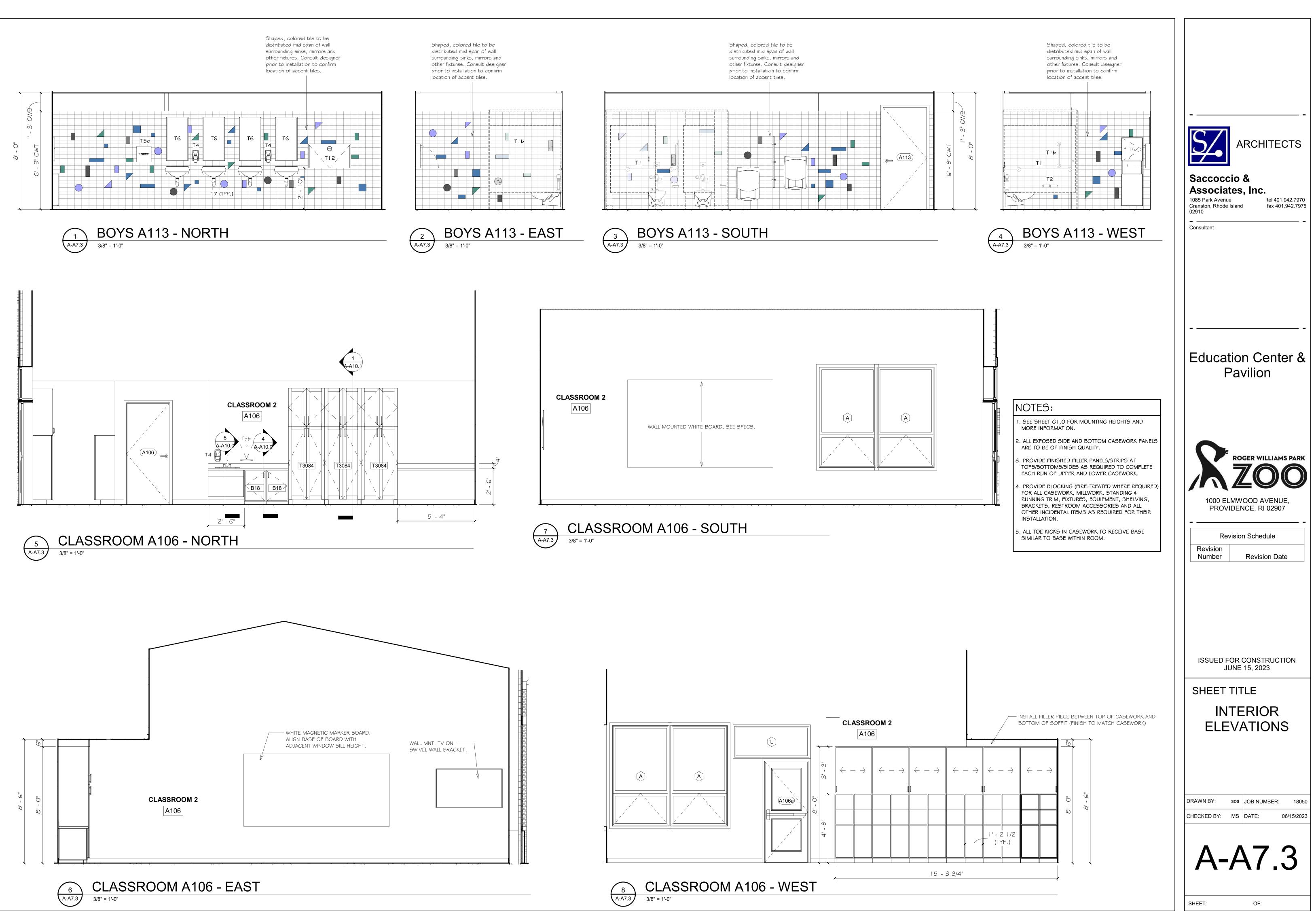


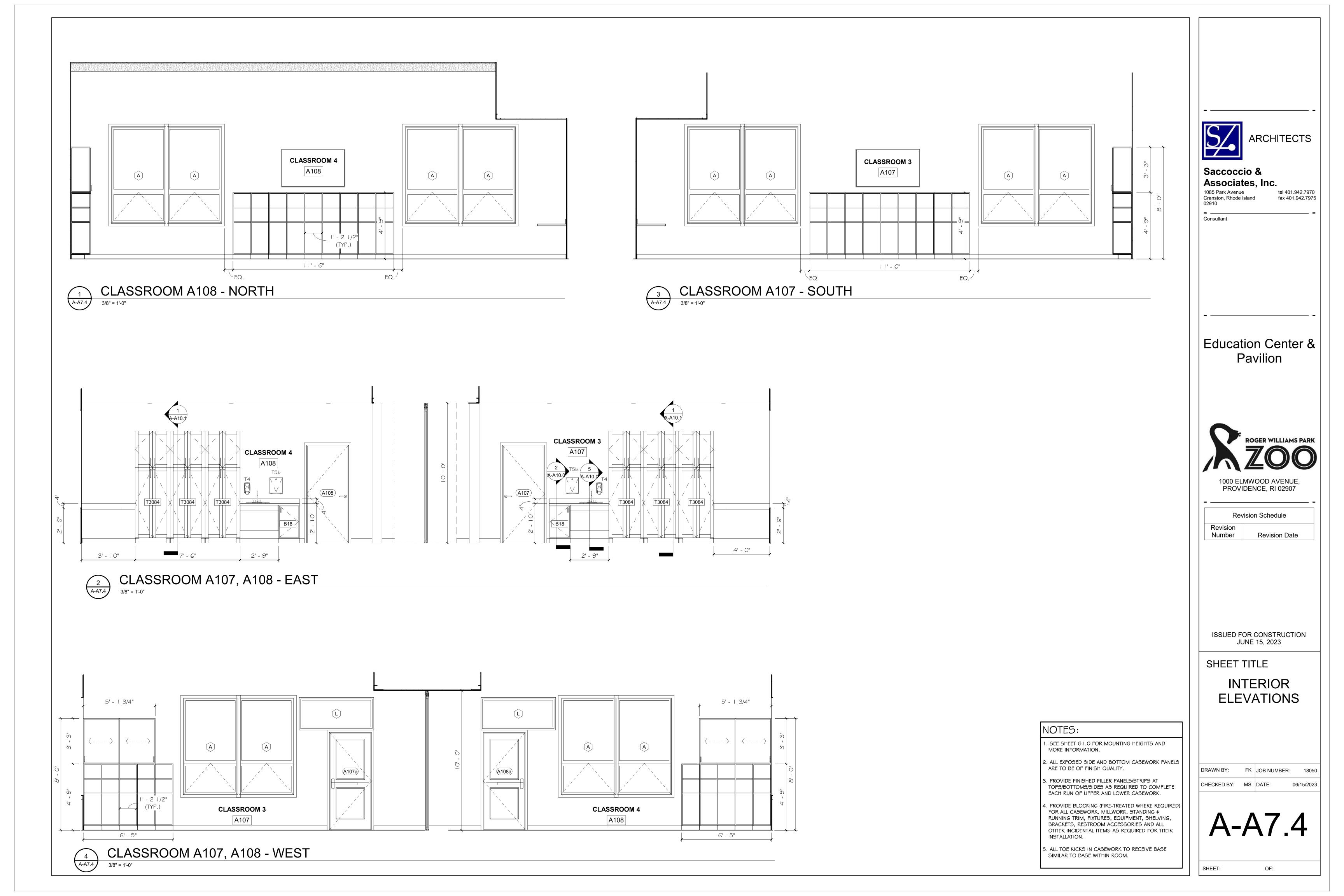


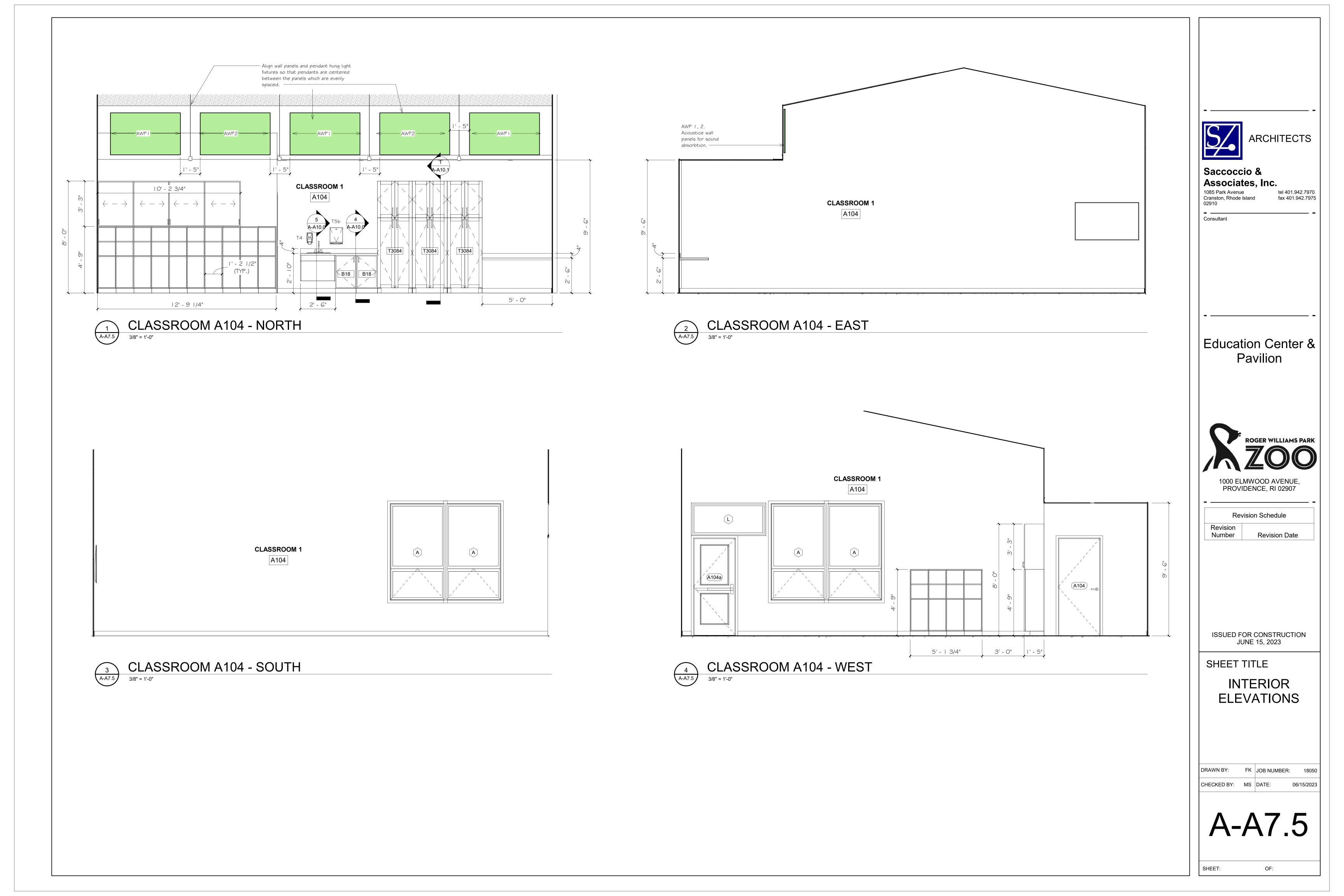
- . SEE SHEET GI.O FOR MOUNTING HEIGHTS AND
- 2. ALL EXPOSED SIDE AND BOTTOM CASEWORK PANELS ARE TO BE OF FINISH QUALITY.
- 3. PROVIDE FINISHED FILLER PANELS/STRIPS AT TOPS/BOTTOMS/SIDES AS REQUIRED TO COMPLETE EACH RUN OF UPPER AND LOWER CASEWORK.
- . PROVIDE BLOCKING (FIRE-TREATED WHERE REQUIRED) FOR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

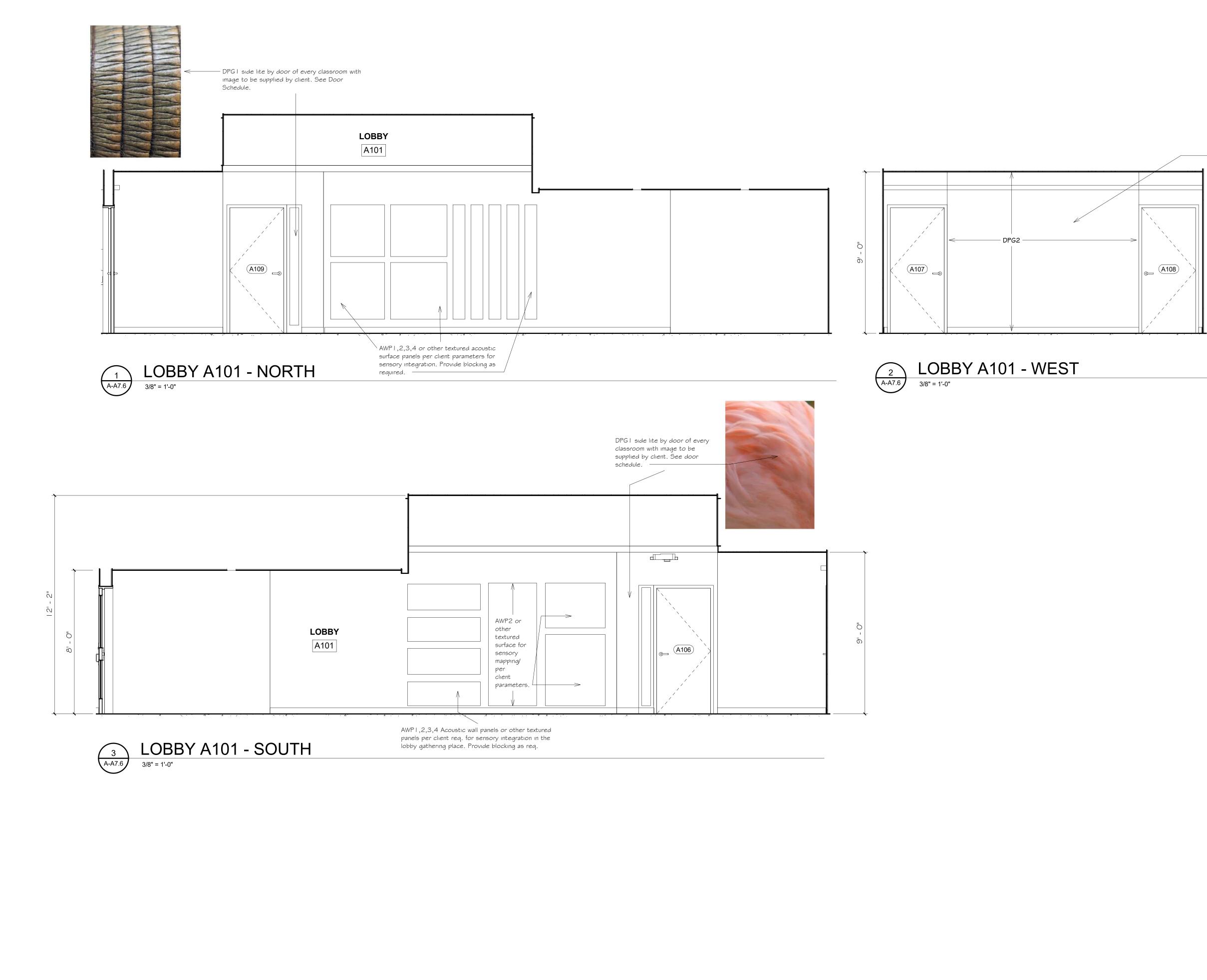








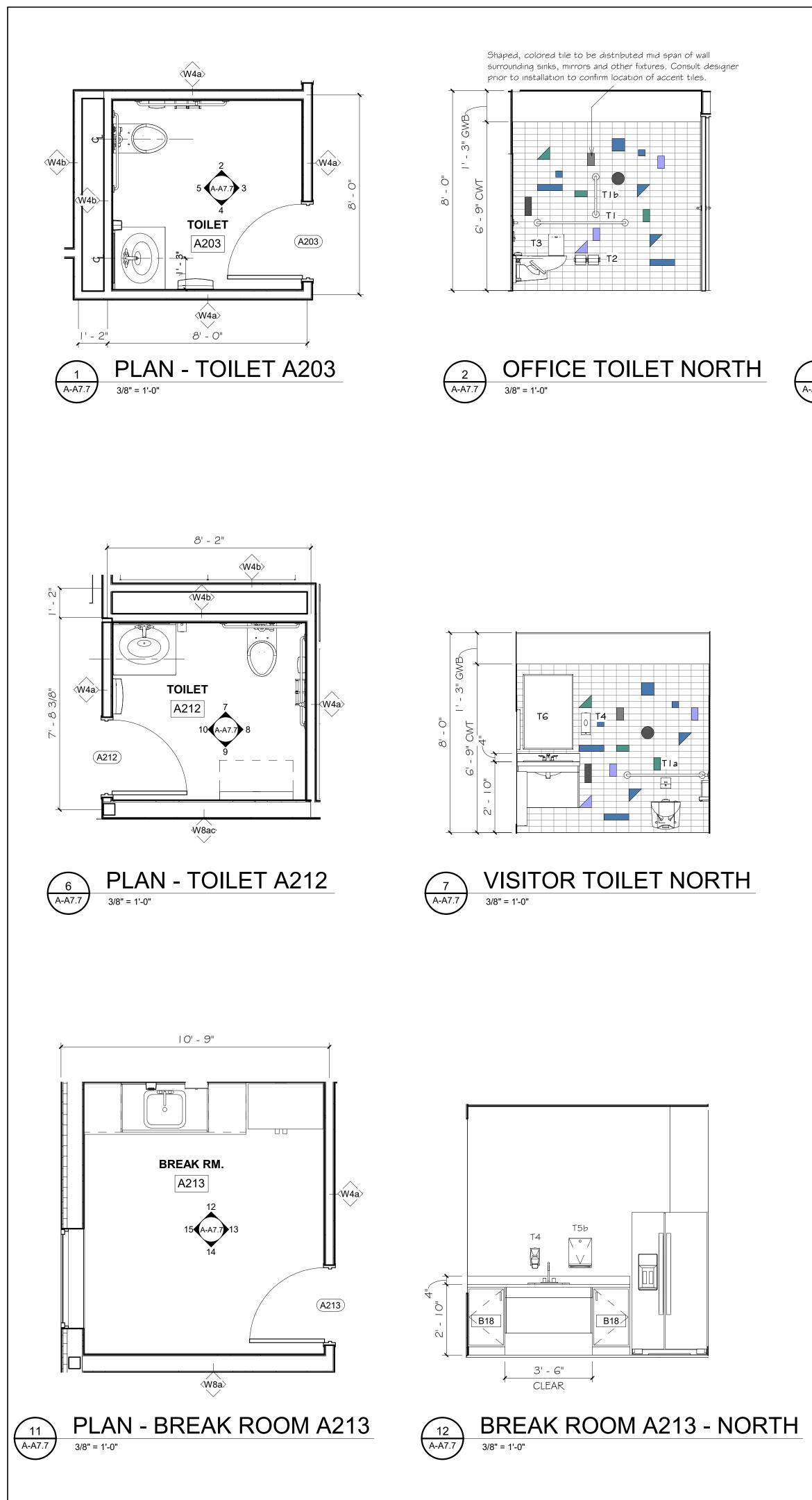


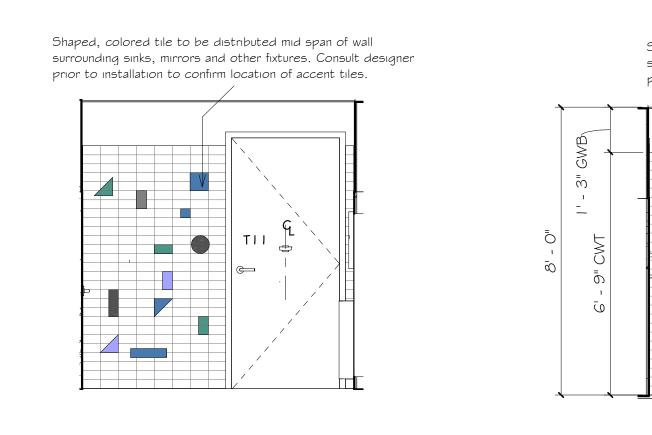


— Example of large scale digital graphic (DPG2) to be installed on West wall of lobby. Graphic image to be supplied by client.

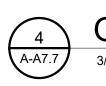


Image: With Stream St
 Education Center & Pavilion
Roger williams park   ZOOO   D00 ELMWOOD AVENUE, PROVIDENCE, RI 02907
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE INTERIOR ELEVATIONS
DRAWN BY: SOS JOB NUMBER: 18050 CHECKED BY: MS DATE: 06/15/2023 AA-AA7.6 SHEET: OF:

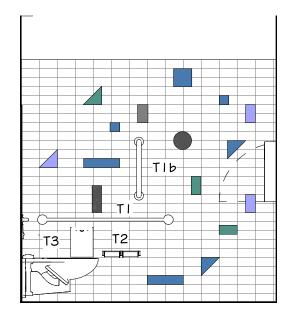


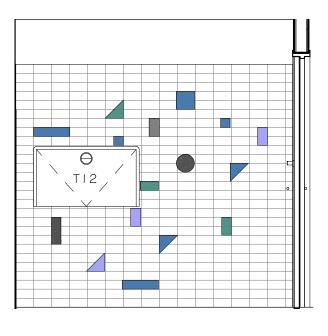




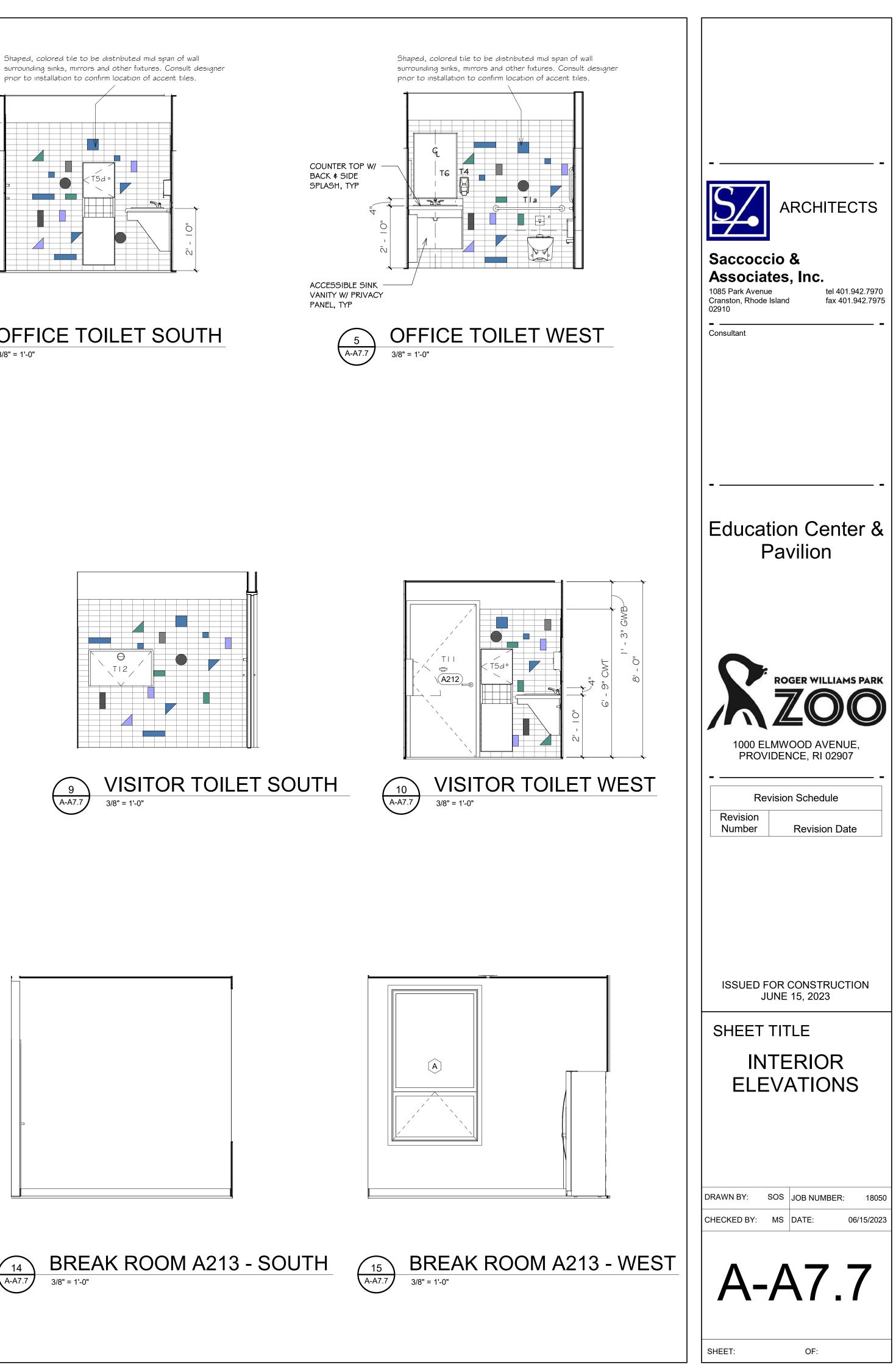


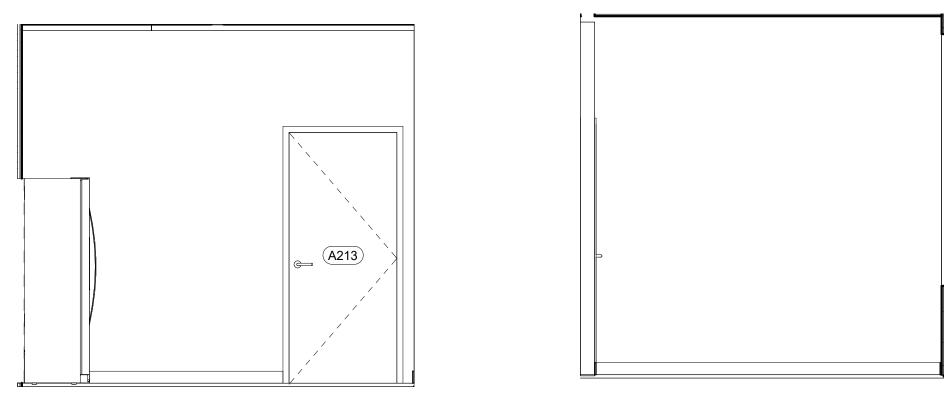
### OFFICE TOILET SOUTH 3/8" = 1'-0"





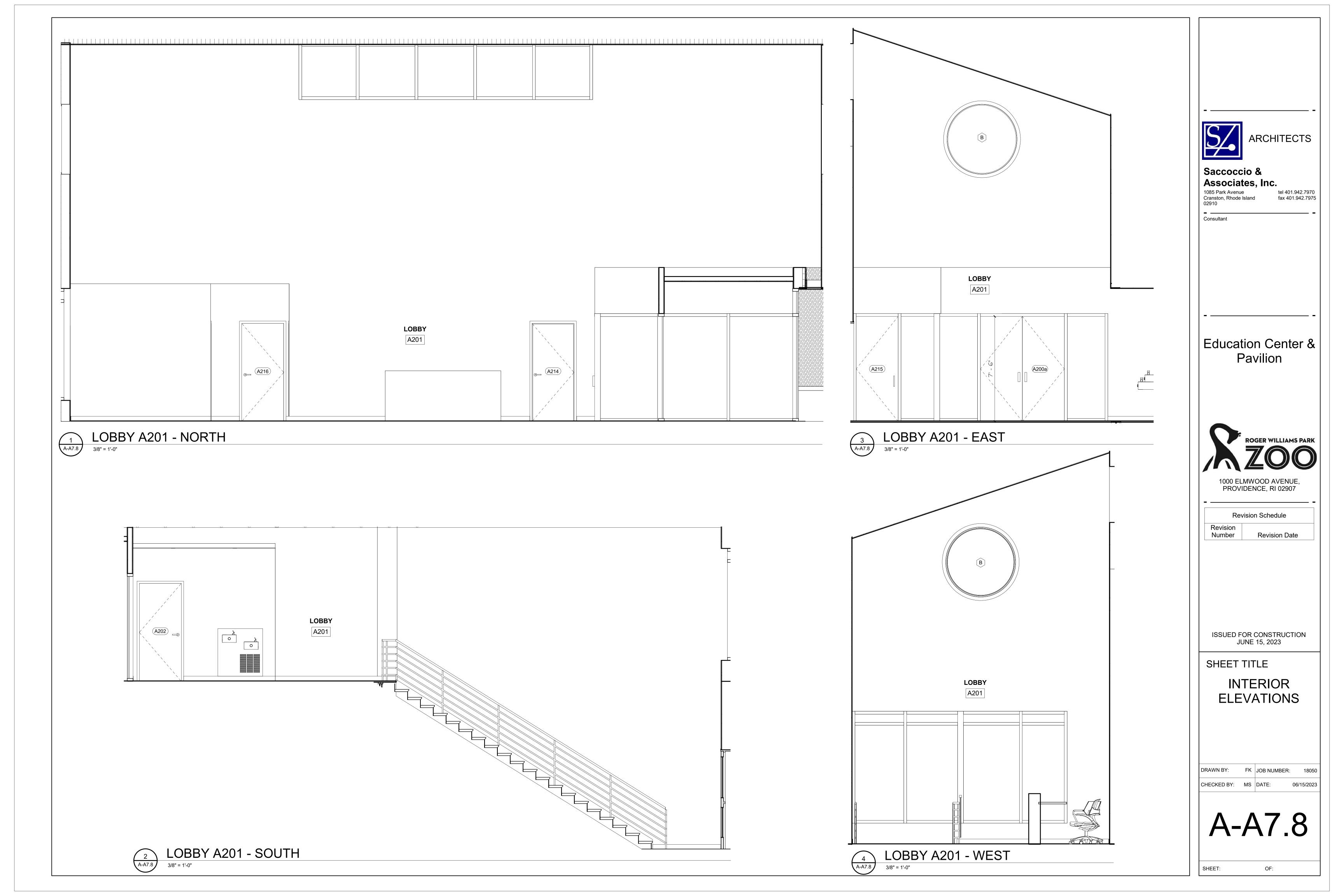


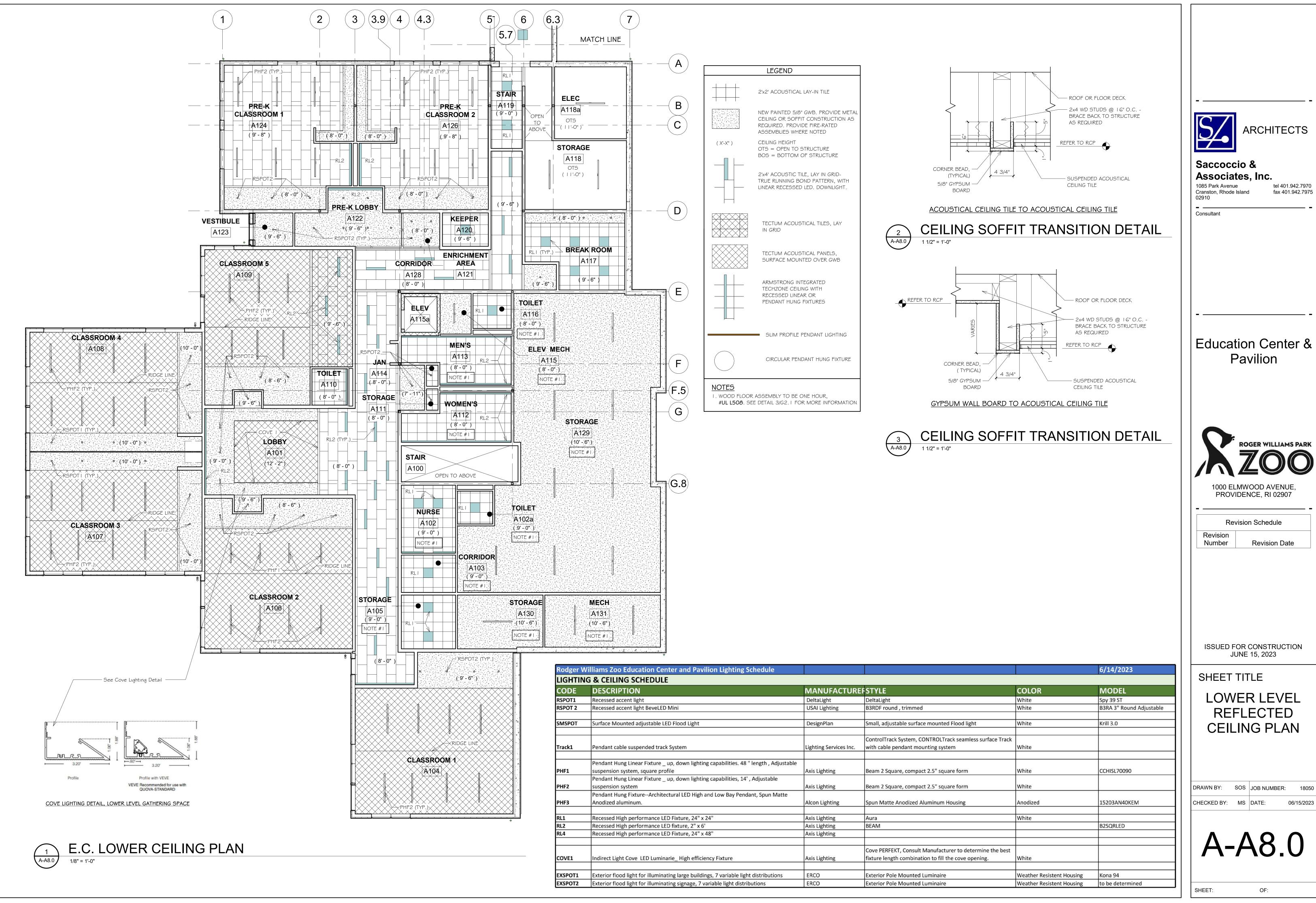












<b>Rodger</b> W	Villiams Zoo Education Center and Pavilion Lighting Schedule		
LIGHTIN	G & CEILING SCHEDULE		
CODE	DESCRIPTION	MANUFACTURE	STYLE
RSPOT1	Recessed accent light	DeltaLight	DeltaLight
RSPOT 2	Recessed accent light BeveLED Mini	USAI Lighting	B3RDF round , trimmed
SMSPOT	Surface Mounted adjustable LED Flood Light	DesignPlan	Small, adjustable surface
Track1	Pendant cable suspended track System	Lighting Services Inc.	ControlTrack System, CC with cable pendant mou
PHF1	Pendant Hung Linear Fixture _ up, down lighting capabilities. 48 " length , Adjustable suspension system, square profile	Axis Lighting	Beam 2 Square, compac
PHF2	Pendant Hung Linear Fixture _ up, down lighting capabilities, 14', Adjustable suspension system	Axis Lighting	Beam 2 Square, compac
PHF3	Pendant Hung FixtureArchitectural LED High and Low Bay Pendant, Spun Matte Anodized aluminum.	Alcon Lighting	Spun Matte Anodized Al
RL1	Recessed High performance LED Fixture, 24" x 24"	Axis Lighting	Aura
RL2	Recessed High performance LED fixture, 2" x 6'	Axis Lighting	BEAM
RL4	Recessed High performance LED Fixture, 24" x 48"	Axis Lighting	
COVE1	Indirect Light Cove LED Luminarie_ High efficiency Fixture	Axis Lighting	Cove PERFEKT, Consult I fixture length combinati
EXSPOT1	Exterior flood light for illuminating large buildings, 7 variable light distributions	ERCO	Exterior Pole Mounted L
EXSPOT2	Exterior flood light for illuminating signage, 7 variable light distributions	ERCO	Exterior Pole Mounted L



Rodger W	/illiams Zoo Education Center and Pavilion Lighting Schedule				6/14/2023
	G & CEILING SCHEDULE		1		
CODE	DESCRIPTION	MANUFACTURE	STYLE	COLOR	MODEL
RSPOT1	Recessed accent light	DeltaLight	DeltaLight	White	Spy 39 ST
RSPOT 2	Recessed accent light BeveLED Mini	USAI Lighting	B3RDF round , trimmed	White	B3RA 3" Round Adjustable
SMSPOT	Surface Mounted adjustable LED Flood Light	DesignPlan	Small, adjustable surface mounted Flood light	White	Krill 3.0
			ControlTrack System, CONTROLTrack seamless surface Track		
Track1	Pendant cable suspended track System	Lighting Services Inc.	with cable pendant mounting system	White	
PHF1	Pendant Hung Linear Fixture _ up, down lighting capabilities. 48 " length , Adjustable suspension system, square profile	Axis Lighting	Beam 2 Square, compact 2.5" square form	White	CCHISL70090
PHF2	Pendant Hung Linear Fixture _ up, down lighting capabilities, 14', Adjustable suspension system	Axis Lighting	Beam 2 Square, compact 2.5" square form	White	
PHF3	Pendant Hung FixtureArchitectural LED High and Low Bay Pendant, Spun Matte Anodized aluminum.	Alcon Lighting	Spun Matte Anodized Aluminum Housing	Anodized	15203AN40KEM
RL1	Recessed High performance LED Fixture, 24" x 24"	Axis Lighting	Aura	White	
RL2	Recessed High performance LED fixture, 2" x 6'	Axis Lighting	BEAM	White	B2SQRLED
RL4	Recessed High performance LED Fixture, 24" x 48"	Axis Lighting			
			Cove PERFEKT, Consult Manufacturer to determine the best		
COVE1	Indirect Light Cove LED Luminarie_ High efficiency Fixture	Axis Lighting	fixture length combination to fill the cove opening.	White	
XSPOT1	Exterior flood light for illuminating large buildings, 7 variable light distributions	ERCO	Exterior Pole Mounted Luminaire	Weather Resistent Housing	Kona 94
XSPOT2	Exterior flood light for illuminating signage, 7 variable light distributions	ERCO	Exterior Pole Mounted Luminaire	Weather Resistent Housing	to be determined

SolutionARCHITECTSSaccocio & Saccociates, lnc.N85 Park Avenue Cranston, Rhode Island 0201M85 Park Avenue Cranston, Rhode Island Consultant
Roger williams park   ZOOO   D00 ELMWOOD AVENUE, PROVIDENCE, RI 02907 Revision Schedule   Revision   Number   Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE UPPER LEVEL REFLECTED
CEILING PLAN DRAWN BY: SOS JOB NUMBER: 18050 CHECKED BY: MS DATE: 06/15/2023 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
SHEET: OF:

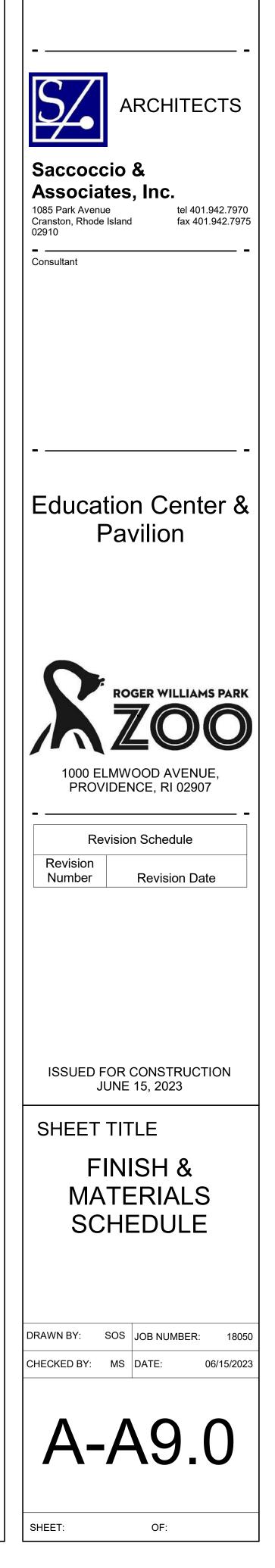
Rodger	Williams Park Zoo Education Center & Pavilion		Materials, Color and Finish Schedule		6/14/2023
Code	Type of Material	Manufacturer	Style	Color	Pattern/ Model Number
WALL					
РТ1	FIELD PAINT	Benjamin Moore	Scuff-X, high traffic environments, Matt Finish	OC-27, Balboa Mist	n/a
РТ2	FIELD PAINT	Benjamin Moore	Scuff-X, high traffic environments, Matt Finish	OC-22, Calm	n/a
РТЗ РТ4	FIELD PAINT FIELD PAINT	Benjamin Moore Benjamin Moore	Scuff-X, high traffic environments, Matt Finish Scuff-X, high traffic environments, Matt Finish	OC-88 Indian White To be determined	n/a n/a
775 776	FIELD PAINT WINDOW/ DOOR TRIM	Benjamin Moore Benjamin Moore	Scuff-X, high traffic environments, Matt Finish Scuff-X Semi Gloss 487	To be determined To be determined	n/a n/a
777 778	WINDOW/ DOOR TRIM Specialty Durable, Metal Railing Paint, Gloss	Benjamin Moore Benjamin Moore	Scuff-X Semi Gloss 487 Scuff-X Gloss 487	AF-395 Meditation 2144-10, Guacamole	n/a Pipe Guard Rail and Pipe Handr
РТ9 РТ10	Specialty Durable, Metal Railing Paint, Gloss SPECIALTY FLAT CEILING WASHABLE WHITE	Benjamin Moore Benjamin Moore	Scuff-X Gloss 487 Waterborne Ceiling Paint 508	2144-10, Guacamole CEILING WHITE	Steel Pickets For GWB ceilings throughout.
T11	WINDOW/ DOOR TRIM	Benjamin Moore	Scuff-X Semi Gloss 487	AF-720 Sparrow	
PT12 PT13	FIELD PAINT FIELD PAINT	Benjamin Moore Benjamin Moore	Scuff-X, high traffic environments, Matt Finish Scuff-X, high traffic environments, Matt Finish Scuff-X Semi Gloss 487	To be determined To be determined	
T14	WINDOW/ DOOR TRIM	Benjamin Moore		To be determined	
T1 T2	Glazed Porcelain Wall Tile, multi-shaped Glazed Porcelain Wall Tile, multi-shaped	Crossville Crossville	Cursive Cursive	#CRV05, Old Denim #CRV01, Ghost	#CRV05 #CRV01
T3 T4	Glazed Porcelain Wall Tile, multi-shaped Glazed Porcelain Wall Tile, multi-shaped	Crossville Crossville	Cursive Cursive	Rose Gold Goldenrod	#CRV0 #CRV0
T6 T7	Glazed Porcelain Back Splash Wall Tile Glazed Porcelain Wall Tile	To be determined To be determined			
WP	Durable wall panelling system. See Specifications. Cal. Prop 65 free				
2	Wall Grout, see specifications.	Laticrete, Spectra Lock		Slate Grey	#91
WP1	Felt Acoustic wall Panels, 4' x 9' x 1/2"	MDC Zintra	Zintra	Olive Sheet	ZTR4724
WP2 WP3	Felt Acoustic wall Panels, 4' x 9' x 1/2" Felt Acoustic wall Panels, 4' x 9' x 1/2"	MDC Zintra MDC Zintra	Zintra Zintra	Cadet Sheet Fossil Sheet	ZTR4721 ZTR4720
WP4 WP5	Felt Acoustic wall Panels, 4' x 9' x 1/2" Felt Acoustic wall Panels, 4' x 9' x 1/2"	MDC Zintra MDC Zintra	Zintra Zintra	Ecru Linen Sheet	ZTR4707 ZTR4709
1	Rubber Wall Cove Base	Roppe	Cove Base	Creek Bed	#640
2 3	Porcelain Tile Cove Base Rubber Wall Cove Base, through body, high density Rubber Wall Cove Base	Crossville	6 x 12 Cove Base, Basalt Cove Base	MAFIC Dolphin	AV295 #129
3 4	Glazed Porcelain wall Tile Cove Base,	Roppe Crossville	6 x 12 Cove Base	Ghost	#129 #CRV01
GP1	Double sided configuration consisting of a color or custom image graphic interlayer between two transparent lites of glass. Digital Glass Panel	Forms and Surfaces	VlviGraphix Spectra	Custom Imagery	Pearlex Finish, VGS3417-1210-0
	Single sided configuration consisting of a color or custom image graphic				Pearlex Finish, VGS3417-1210-0
GP2	interlayer between two transparent lites of glass. Digital Glass Panel	Forms and Surfaces	VlviGraphix Spectra	Custom Imagery	
LOOR					
ORT1 ORT2	Porcelain Tile, through body, high density Porcelain Tile, through body, high density	Crossville Crossville	12 x 24, Basalt 12 x 12, Basalt	MAFIC	AV294 AV295
ORT3	Porcelain Tile, through body, high density	Crossville	6 x 6, Basalt	MAFIC	
1	Floor Grout	Laticrete	See Specifications	#91 Slate Gray	
C1	Stained Concrete, Buffed finish			Stain color 1	
6C2 6C3	Stained Concrete, Buffed finish Stained Concrete, Buffed finish			Stain color 2 Stain color 3	
6C4 6C5	Stained Concrete, Buffed finish Stained Concrete, Buffed finish			Stain color 4 Stain color 5	
5C6 5C7	Stained Concrete, Buffed finish Stained Concrete, Buffed finish			Stain color 6 Stain color 7	
6C8 6C9	Stained Concrete, Buffed finish Sealed Concrete			Stain color 8	
SC10	Slip Resistent, Polished Concrete				
ONC	UNFINISHED CONCRETE, EXPOSED SLAB				
RUB1	Rubber Tile	Roppe	Renew, #993 Textured Design	# R663 Aged Fern	Textured design
RUB2 RUB3	Rubber Tile Rubber Tile	Roppe Roppe	Renew, #993 Textured Design Renew, #993 Textured Design	# R122 Natural # R638 Cadet	Textured design Textured design
RUB4	Rubber Tile	Roppe	Renew, #993 Textured Design	# R639 Beigewood	Textured design
M1	Entry Mat	Matter Surface	Diagonal Tile	Black Walnut	Walk off matt in entries
.IN1 .IN2	LinoleumMarmoleum Floor Tile LinoleumMarmoleum Floor Tile	FORBO Flooring Systems	Fresco	Oat Rosemary Green	#3890 #3355
IN3	LinoleumMarmoleum Floor Tile	FORBO Flooring Systems FORBO Flooring Systems	Cirrus Piano	Periwinkle	#3642
.IN4	LinoleumMarmoleum Floor Tile	FORBO Flooring Systems	Vivace	Granada	#3405
STAIRS		1			_
RUB5	Rubber Treads and Risers, textured finish	Roppe	Marbelized	Gecko	M646
CEILING	iS	1			
		Armstrong Commercial			
ECT1	Tectum acoustic ceiling panels	Ceilings Armstrong Commercial	Tectum	White	
ECT2	Tectum acoustic ceiling panels inlaid in grid	Ceilings	Tectum	White	
CT1	High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 24" panels with integrated Technical Services	Armstrong Commercial Ceilings	Armstrong Techzone with Calla Square lay-in field panels, smooth texture.	White	8807
	High performance sustainable Ceiling System with 15/16" Square Layin	Armstrong Commercial	Armstrong Techzone with Calla Square lay-in field		
CT2	suspension system 24" x 48" panels with integrated Technical Services	Ceilings	panels, smooth texture.	White	
стз	High performance sustainable Ceiling System with 9/16" Tegular suspension system 24" x 24" panels with integrated Technical Services	Armstrong Commercial Ceilings	Armstrong Techzone with Calla tegular panels,	White	
		Armstrong Commercial	smooth texture.		
CT4	Washable Acoustic 24" x 24" Tile	Ceilings		White	
1illwor					
LAM 1 LAM2	Premium Plastic Laminate Premium Plastic Laminate	Wilsonart Wilsonart	Standard Laminate Standard Laminate	Natural Tigris, ##4669-60 Green Tigris, #4667-60	Matte Finish Matte Finish
LAM3 LAM4	Traceless, Fingerprint resistent Plastic Laminate Traceless, Fingerprint resistent Plastic Laminate	Wilsonart Wilsonart	Traceless Traceless	Silk Velvet, 15513 Linen Velvet, 15513	Ultra Matte Ulta Matte
LAM5	Traceless, Fingerprint resistent Plastic Laminate Traceless, Fingerprint resistent Plastic Laminate	Wilsonart Wilsonart	Traceless Traceless	Slate Velvet, 15507 To be determined	Ulta Matte
LAM 7	Traceless, Fingerprint resistent Plastic Laminate	Wilsonart	Traceless	To be determined	
S1	Solid Surface, Porcelain Slab	Crossville Porcelain Slabs	Unpolished	Suspense unpolished	
63	Solid Surface, Porcelain Slab	To Be determined	To Be determined	To Be determined	
		*			
ccesso					
Accesso P1 P2	bries Black Core Phenolic , Toilet Partitions Black Core Phenolic , Toilet Partitions	ASI ASI	Black Core Phenolic Black Core Phenolic	Tungsten EV Neutral Glaze	4801 1130

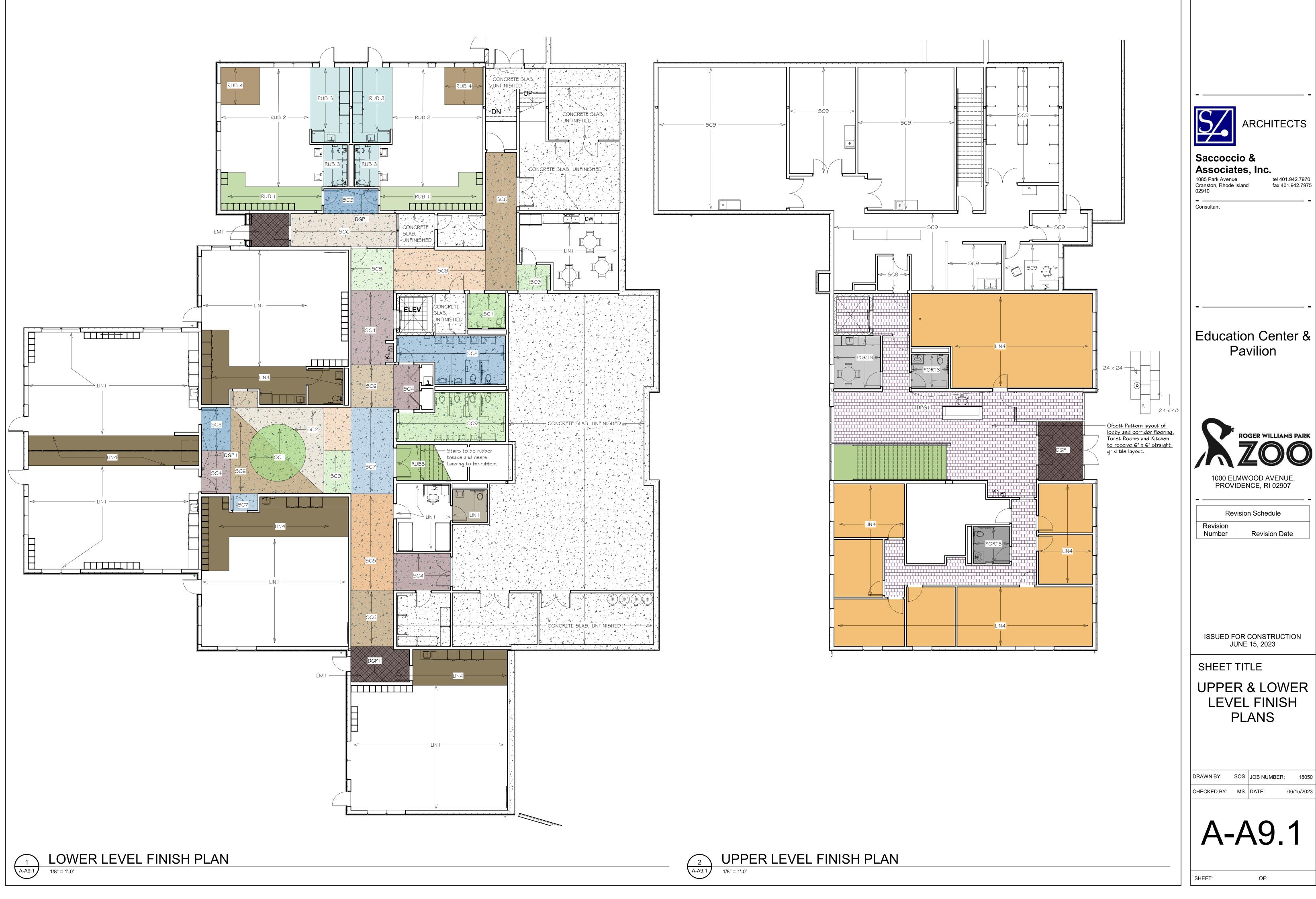
ALM         Consention         P11, P12, APLI2         P11/P2         P11/P2         P11, P1						ROOM FINISH	I SCHEDULE				
NUM         NUM <th></th>											
NIME         BARK         MIL 2         M								MAT.	HT	CEILING	
MADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEMADEM	1			, ,				BI	<b>A</b> "		
A 59         D177         P1 P1         P	1										
NNM         Model Model Model 1         Print Model Model 1           Model Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1           Model Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1           Model Model 1         Print Model Model 1           Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1           Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1           Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1           Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1           Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1           Model Model 1         Print Model Model 1         Print Model Model 1         Print Model Model 1 <td></td> <td></td> <td>,</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			,	-	-						
Mode         Stability         FULLY				-	-				4"		
MAM         MARGAR         PF         PF         MO         MC         MC <t< td=""><td></td><td>CLASSROOM I</td><td>PTI, PT7, AWPI,2</td><td>PTI,PT7</td><td></td><td></td><td>LIN</td><td>BI</td><td>4"</td><td>GWB / TECT I</td><td>SEE FINISH PLAN A-A9. I</td></t<>		CLASSROOM I	PTI, PT7, AWPI,2	PTI,PT7			LIN	BI	4"	GWB / TECT I	SEE FINISH PLAN A-A9. I
ALM         C AMMONDAN         FT, FT	A105	STORAGE	PTI,PT7	PTI,PT7	PTI,PT7	PTI,PT7	Unfinished concrete	B3		ACTI	SEE FINISH PLAN A-A9. I
Mot.         Lobox/Lobox         Print	A105	STORAGE	PTI,PT7	PTI,PT7	PTI,PT7	PTI,PT7	SC9	BI		ACTI	
Alse         Construction         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111/17         111							-	BI	4"		SEE FINISH PLAN A-A9. I
3.99     CAMPERIZATI     T11.77     T11.77     T11.77     T11.77     T11.74     T11.77							-		-	,	
A. C.     Dip M.     CIL 23.44     CIL 23.44 <td></td> <td></td> <td>-</td> <td></td> <td>2</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>			-		2		-				
A 11         OPTRAGE         PT1 P7         PT1 P7         PT2 P7         PT4 P7         PT7 P7 </td <td></td> <td>See interior Elevations</td>											See interior Elevations
A12         ADDC 5         OT A2.51         OT A2.57         OT A2.57 <thot a2.57<="" th=""> <thot a2.57<="" th=""> <thot a2<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></thot></thot></thot>									-		
A13         MMC         C1         PALA         C1         PALA         C1         PALA         C1         PALA         C1         PALA						· · · · · · · · · · · · · · · · · · ·		B2	-		Wet Walls to receive plazed CTT 2.3.4
ALAABAP IA / ABAP IA / AP IA / A<											
Alt6         Priv         Plaks_65         Pla		JAN					SC4	BI	4"	ACTI	
ALLG       DELT       FT	A115	ELEV MECH	PTI,PT7	PTI,PT7	PTI,PT7	PTI,PT7	Unfinished concrete	BI	4"	GWB	
A17       SEGA SQM       PT1/P7	AII5a	ELEV					PORT3	B2	6"		
A 16         20082*         P1         <						•		BI			
A 1.40         SLC         PT /PT         PT /PT         PT /PT         PT /PT         PT /PT         PL /PT <td></td>											
ALUM         CPARL         CPARL <thc< td=""><td></td><td></td><td></td><td></td><td>,</td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td><td>-</td><td></td><td></td></thc<>					,	· · · · · · · · · · · · · · · · · · ·			-		
A18.0         CECRE         Open         Open         Open         Open         Open         SC         Depn         Depn<			,			· · · · · · · · · · · · · · · · · · ·			-	015	
ALS         PARCHARD AGE         DAF         DAF         DAF         SCI         DAF         SCI         DAF           AL28         PRISON DSY         UNIGN         PLI_PT         CLIPT         PLIPT         DCG         DF         GAG         DSY ADJ           AL28         VSUNDL         PLI_TT         PLI_TT         PLITT         PLITT         DT         DT         DSY ADJ         DS					· ·	· · · · · · · · · · · · · · · · · · ·			4"		
AL29         VEX.LOS2Y         DAGL         PTU.PT         PTU.PT         PTU.PT         DAGL         PTU.PT         DAGL         PTU.PT         DAGL         DAGL <thdagl< th="">         DAGL         <thdagl< th=""> <thdagl< th="">         DAGL<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdagl<></thdagl<></thdagl<>											
AL23         CSDI BALE         PTI_PT											Grapic panel design TBD
ALAL         PERLINGASSIGNU         PET, PT											
Âx 60         PEC CAMPARCONZ         PETTIN         PETTIN <thp< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td>RUB1,2,3,4</td><td>BI</td><td></td><td>GWB / ACT2</td><td></td></thp<>				-			RUB1,2,3,4	BI		GWB / ACT2	
Á 127         TOLE         C1.2         C1.2 <t< td=""><td>A125</td><td>TOILET</td><td>CT1,2</td><td>CTI,2</td><td>CTI,2</td><td>CTI,2</td><td>RUB3</td><td>CTI,2</td><td></td><td>ACT2</td><td>SEE FINISH PLAN A-A9. I</td></t<>	A125	TOILET	CT1,2	CTI,2	CTI,2	CTI,2	RUB3	CTI,2		ACT2	SEE FINISH PLAN A-A9. I
ÁL26         CÓNRICOR         IT. IT         IT. IT <thit< th="">         IT. IT         IT. IT</thit<>	A126	PRE-K CLASSROOM 2	PTI,PT7	PTI,PT7	PTI,PT7	PTI,PT7	RUB1,2,3,4	BI		GWB / ACT2	SEE FINISH PLAN A-A9. I
AL29         DIPLORG         PTL177         PTL177 </td <td></td>											
Alag         STORAGE         FTPT         FTL.PT         FTL.PT         FTL.PT         FDC1         CC         FDC1									4"		Grapic panel design TBD
AL21         DIV         PRAMORAS         PRAMORAS         PRAMORAS         PRAMORAS         PROPELAZ         DESCRIPTION         DESCRIPTION <thdescription< th="">         DESCRIPTION</thdescription<>									411		
Alsa         MECH         PTI_PT7         PTI_PT7         PTI_PT7         PCI_PT7         DS28         D1         Af         GME           Alsa         STORAGE         PTI_PT7         PTI_PT7         PTI_PT7         PCI_PT7         GS29         A4         GT5            Alsa         STORAGE         PTI_PT7         PTI_PT7         PTI_PT7         PCI_PT7         GMB         CT5            Alsa         STOTAGE         CMU         <								DI	4"	GWD	SEE FINISH PLAN A AG I
Al30         STORAGE         P1,P7         P1,P7         P1,P7         P1,P7         P5,9         P4         05           Al34         STUTEL1         GVU         GVU         GVU         GVU         SC         GVU         ST         ST           Al35         STUTEL2         GVU         GVU         GVU         GVU         SC         GVU         ST         ST           Al35         STUTE3         GVU         GVU         GVU         GVU         SC         GVU         ST         ST           Al35         STUTE3         GVU         GVU         GVU         GVU         ST         ST         ST         ST           Al35         STUTE3         GVU         GVU         GVU         GVU         ST         ST         ST         ST           Al35         STUTE3         GVU         GVU         GVU         GVU         ST         ST         ST         ST           Al36         STT         P32P11         P12P11         P12P11         P12P12         SZ         47         GVD         GVD           AD1         P12P11         P12P11         P12P11         P12P11         P12P11         GVD         SZ         GV								BI	4"	GWB	SEETINISTITEAN A-AS.T
A136         SHILTR I         CMU         CMU         CMU         SC9         CMU         CPS           A136         SHELTR 2         CMU         CMU         CMU         SC9         CMU         DTS           A136         SHELTR 2         CMU         CMU         CMU         SC9         CMU         DTS           A136         SHELTR 3         CMU         CMU         CMU         SC9         CMU         DTS           A135         SHELTR 3         CMU         CMU         CMU         SC9         CMU         DTS           A135         SHELTR 3         CMU         CMU         CMU         SC9         CMU         DTS         DTS           A135         SHELTR 3         CMU         CMU         CMU         SC9         CMU         DTS         DTS           A135         SHELTR 3         CMU         CMU         CMU         SC9         CMU         DTS         DTS           A136         CMPR         PTS,PT1         PTS,PT1         PTS,PT1         PTS,PT1         PTS,PT1         PTS,PT1         PTS,PT1         PTS,PT1         PTS,PT1         ACT         DTS           A201         CONSTOR         PTS,PT1         PTS,PT1									-		
A136         SPELTER 3         CMU         CMU <thc< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>СМИ</td><td></td><td></td><td></td></thc<>								СМИ			
AL27         SPEITE 4.         ONU         ONU         ONU         ONU         SOUL         ONU         SOUL         ONU         ONU         SOUL         SOUL         ONU         SOUL         ONU         SOUL         ONU         SOUL         ONU         SOUL         ONU         SOUL         SOUL         ONU         SOUL         SOUL         ONU         SOUL         ONU         SOUL         SOUL </td <td>A135</td> <td>SHELTER 2</td> <td>CMU</td> <td>CMU</td> <td>CMU</td> <td>CMU</td> <td>5C9</td> <td>CMU</td> <td></td> <td>OTS</td> <td></td>	A135	SHELTER 2	CMU	CMU	CMU	CMU	5C9	CMU		OTS	
A:36         SHELTER 5         CMU         CMU         CMU         CMU         CMU         SC3         CMU         OT5           A:39         LLFLER         CMU         CMU         CMU         CMU         SC3         CMU         OT5           A:30         LLDBV         DNG2         PT3,PT11	A136	SHELTER 3	CMU	CMU	CMU	CMU	5C9	CMU		OTS	
N199         VEPR         CMU         CMU         CMU         CMU         SC9         OPS           A200         VL51.         P13,P11											
A200         VSFL         PT3,FT11         PT3											
A201         Desy         Desy         P13_PT11         P13_PT1									411		
A202         CORRIDOR         PTS,PT11         PTS,PT11 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Crance panel decign TBD</td></th<>											Crance panel decign TBD
A203FOLETFT3_FT11FT3_FT11FT3_FT11FT3_FT11FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT3_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11FT0_FT11<						· · · · · · · · · · · · · · · · · · ·			4		Grapic parier design TDD
A204MCCHELCPT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11 <td></td>											
A206OFFICE 5PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11 <td></td> <td>MECH/ELEC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ACTI</td> <td></td>		MECH/ELEC								ACTI	
A207CONF, RMPT3, PT11PT3, PT11PT	A205	OFFICE 6	PT3,PT11	PT3,PT11	PT3,PT11	PT3,PT11	LIN4	B3		ACTI	
A203OFFICE 4FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11FT3,FT11 <td>A206</td> <td>OFFICE 5</td> <td>PT3,PT11</td> <td>PT3,PT11</td> <td>PT3,PT11</td> <td>PT3,PT11</td> <td>LIN4</td> <td>B3</td> <td></td> <td>ACTI</td> <td></td>	A206	OFFICE 5	PT3,PT11	PT3,PT11	PT3,PT11	PT3,PT11	LIN4	B3		ACTI	
A209OFFICE 3PT3,PT11PT3,PT11PT3,PT11PT3,PT11LIN4B3ACT1A210OFFICE 2PT3,PT11PT3,PT11PT3,PT11PT3,PT11LIN4B3ACT1A211OFFICE 1PT3,PT11PT3,PT11PT3,PT11PT3,PT11LIN4B3ACT1A212TOILETPT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11DP0RT3B2ACT1A213BREAK RM.PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11PT3,PT11D0RT3B2ACT1A214OFEN OFFICEPT3,PT11PT3,PT11PT3,PT11PT3,PT11D0RT3B2ACT1ACT1A214OFEN OFFICEPT3,PT11PT3,PT11PT3,PT11PT3,PT11D0RT3B2ACT1ACT1A215ENCIMMENT AREADWPDWPDWPDVPPORT1,2B2GVBGVBA217VORK AREADWPDWPDWPDVPLIN4ALUM4*ACT1A217VOSTIBULEDWPDWPDWPDVPSC9ALUM4*ACT1A218KTCHNDWPDWPDWPSC9ALUM4*ACT1A219OFFICEDWPDWPDWPSC9ALUM4*ACT1A221WASH AREADWPDWPDWPSC9ALUM4*ACT1A223STARDWPDWPDWPSC9ALUM4*ACT1 <trr>A224DWPDW</trr>											
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									4"		
	A227	TROPICAL	DWP	DWP	DWP	DWP	SC9	ALUM	4"	GWB	

### FINISH SCHEDULE NOTES

I. 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.

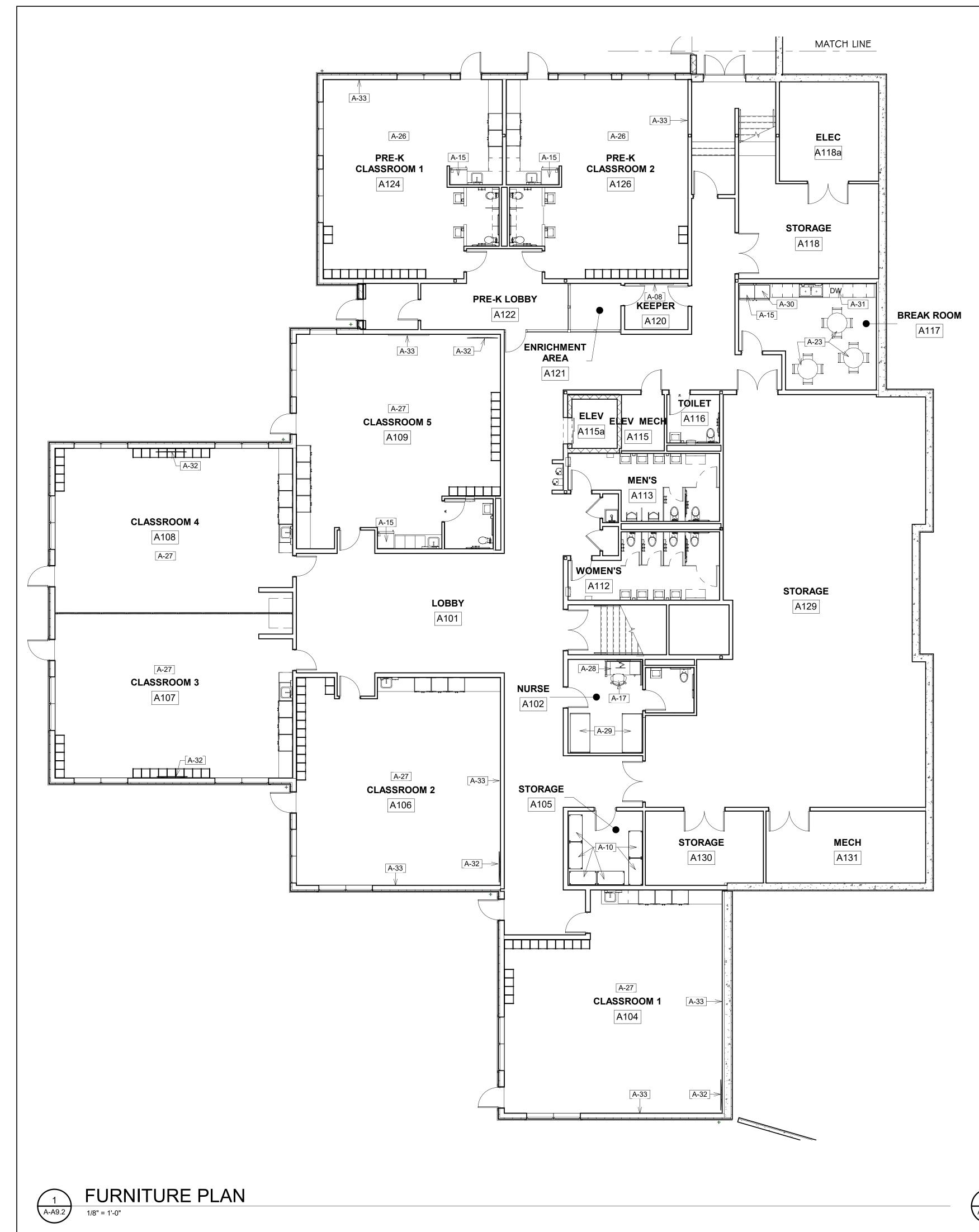
2. 5/8" GWB TO BE REPLACED w/ 5/8" CEMENTITIOUS TILE BACKER BOARD WHEREVER ANY PORTION OF A WALL OR CEILING IS SCHEDULED TO RECEIVE CT. 3. ALL INTERIOR ARCHITECTURAL WOODWORK SHALL RECEIVE FINISH TO MATCH DOOR FINISH WITHIN THE SAME ROOM UNLESS OTHERWISE SPECIFIED. 4. ALL CLASSROOMS AND DAYCARE TO HAVE WALL MOUNTED WHITE BOARD/MAGNETIC MARKER BOARD AND CORNER MOUNTED TV ON SWIVEL BRACKET.



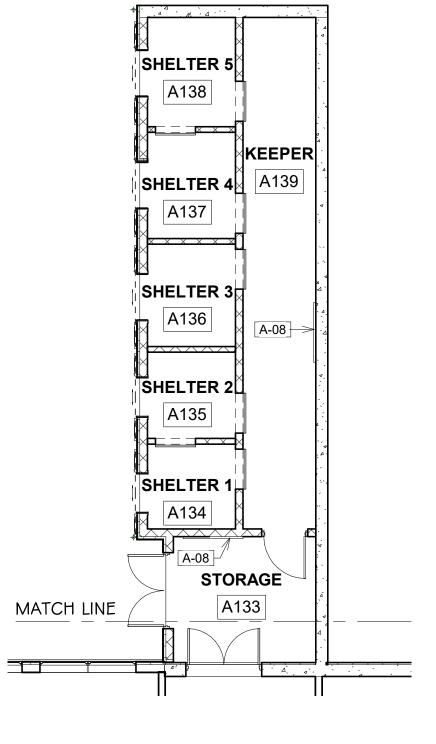


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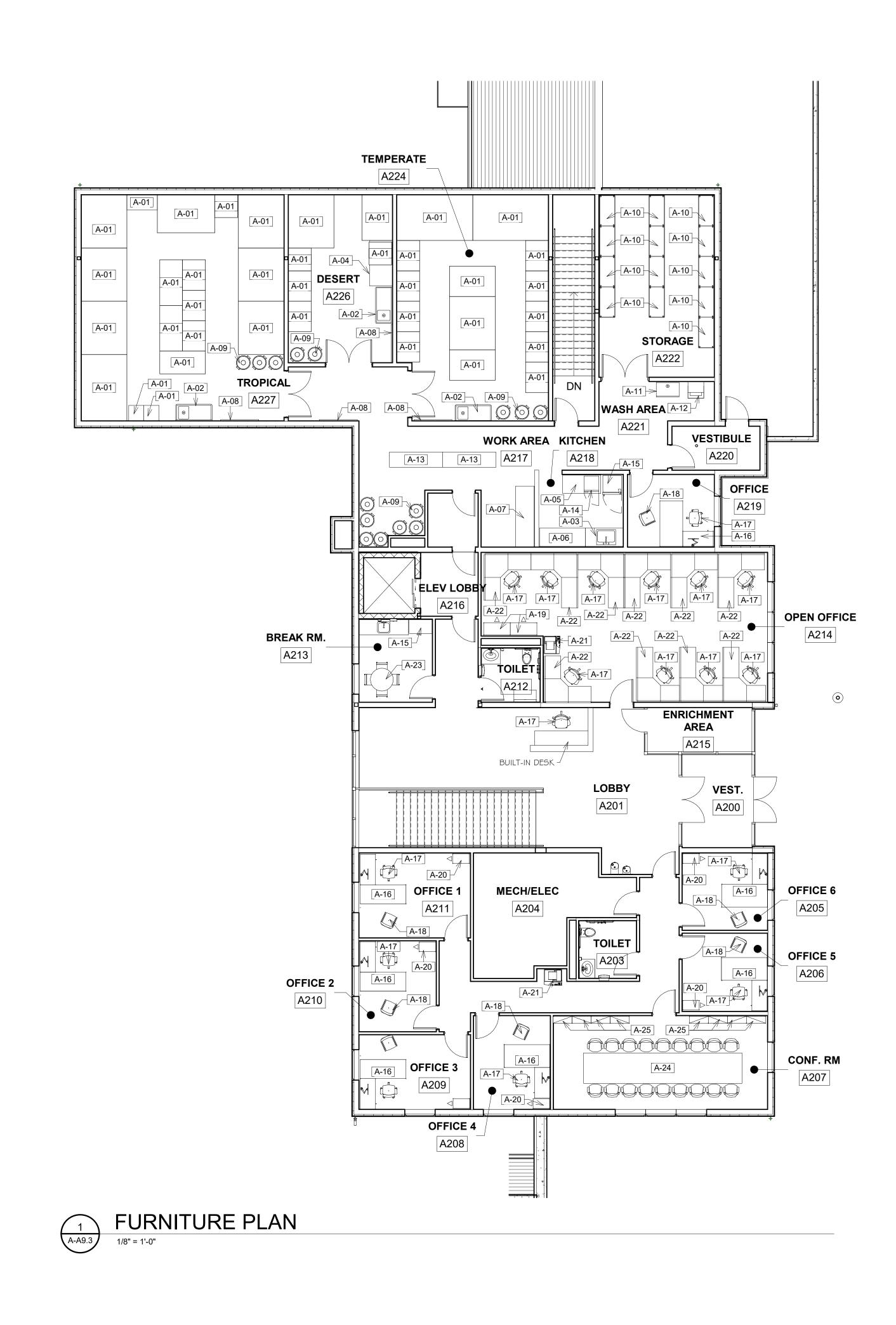
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KEYNOTE	DESCRIPTION	BY	INSTALLED BY	FUNDED BY	COMMENTS
-01	CORNERS LIMITED ANIMAL ENCLOSURES	OWNER	OWNER	OWNER	LAYOUT SHOWN FOR REFERENCE
-02	STAINLESS STEEL TABLE w/ SINK	GC	GC	BASE BID	SEE PLUMBING DWG'S
<u>↓-02</u>	STAINLESS STEEL CABINET W/ SINK	OWNER	GC	BASE BID	EXISTING ITEM TO BE RELOCATED
x-04	36" x 72" STAINLESS STEEL TABLE	GC	GC	BASE BID	
-05	30" x 60" STAINLESS STEEL CABINET	GC	GC	BASE BID	
x-06	30" x 72" STAINLESS STEEL CABINET	GC	GC	BASE BID	
<u>↓-07</u>	30" x 96" STAINLESS STEEL CABINET	OWNER	GC	BASE BID	EXISTING ITEM TO BE RELOCATED
<u>↓-08</u>	WASH CENTER	GC	GC	BASE BID	
4-09	STORAGE CONTAINERS	OWNER	OWNER	OWNER	
4-10	24" x 48" WIRE SHELVES	GC	GC	BASE BID	
4-11	LARGE STAINLESS STEEL SINK	GC	GC	BASE BID	SEE PLUMBING DWG'S
<u>\- 2</u>	WASHER & DRYER	GC	GC	BASE BID	SEE PLUMBING & ELECTIRCAL DWG'S
4-13	24" x 84" STAINLESS STEEL TABLE	GC	GC	BASE BID	
4-14	COUNTER TOP REFRIGERATOR	GC	GC	BASE BID	
-15	REFRIGERATOR / FREEZER	GC	GC	BASE BID	
4-16	OFFICE DESK	OWNER	GC	ALLOWANCE	
4-17	OFFICE CHAIR	OWNER	GC	ALLOWANCE	
4-19	LATERAL FILE CABINET	OWNER	GC	ALLOWANCE	
4-20	FILE CABINET	OWNER	GC	ALLOWANCE	
A-21	COPY MACHINE	OWNER	OWNER	OWNER	SEE ELECTRICAL DWG'S
A-22	SYSTEM FURNITURE	OWNER	GC	ALLOWANCE	
<i>\</i> -23	TABLE & CHAIRS	OWNER	GC	ALLOWANCE	
-24	CONFERENCE ROOM TABLE ∉ CHAIRS	OWNER	GC	ALLOWANCE	
4-26	PRE-K CLASSROOM FURNITURE	OWNER	GC	ALLOWANCE	
4-27	CLASSROOM FURNITURE	OWNER	GC	ALLOWANCE	
-28	NURSE DESK	OWNER	GC	ALLOWANCE	
-29	NURSE BEDS	OWNER	GC	ALLOWANCE	
-30	REFRIGERATOR	GC	GC	BASE BID	
4-31	DISHWASHER	GC	GC	BASE BID	
A-32	TV & MOUNTING BRACKET	GC	GC	BASE BID	SEE ELECTRICAL DWG'S
۹-33	WHITE BOARD	GC	GC	BASE BID	SEE INTERIOR ELEVATIONS



FURNITURE PLAN - ANIMAL SHELTER 2 A-A9.2

Image: System of the system
 Education Center & Pavilion
Roger williams park   ZOOOO   J000 ELMWOOD AVENUE, PROVIDENCE, RI 02907     Revision Schedule   Revision Number   Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE LOWER LEVEL FURNITURE PLAN
drawn by: SOS JOB NUMBER: 18050 CHECKED BY: MS DATE: 06/15/2023 AAAASABA

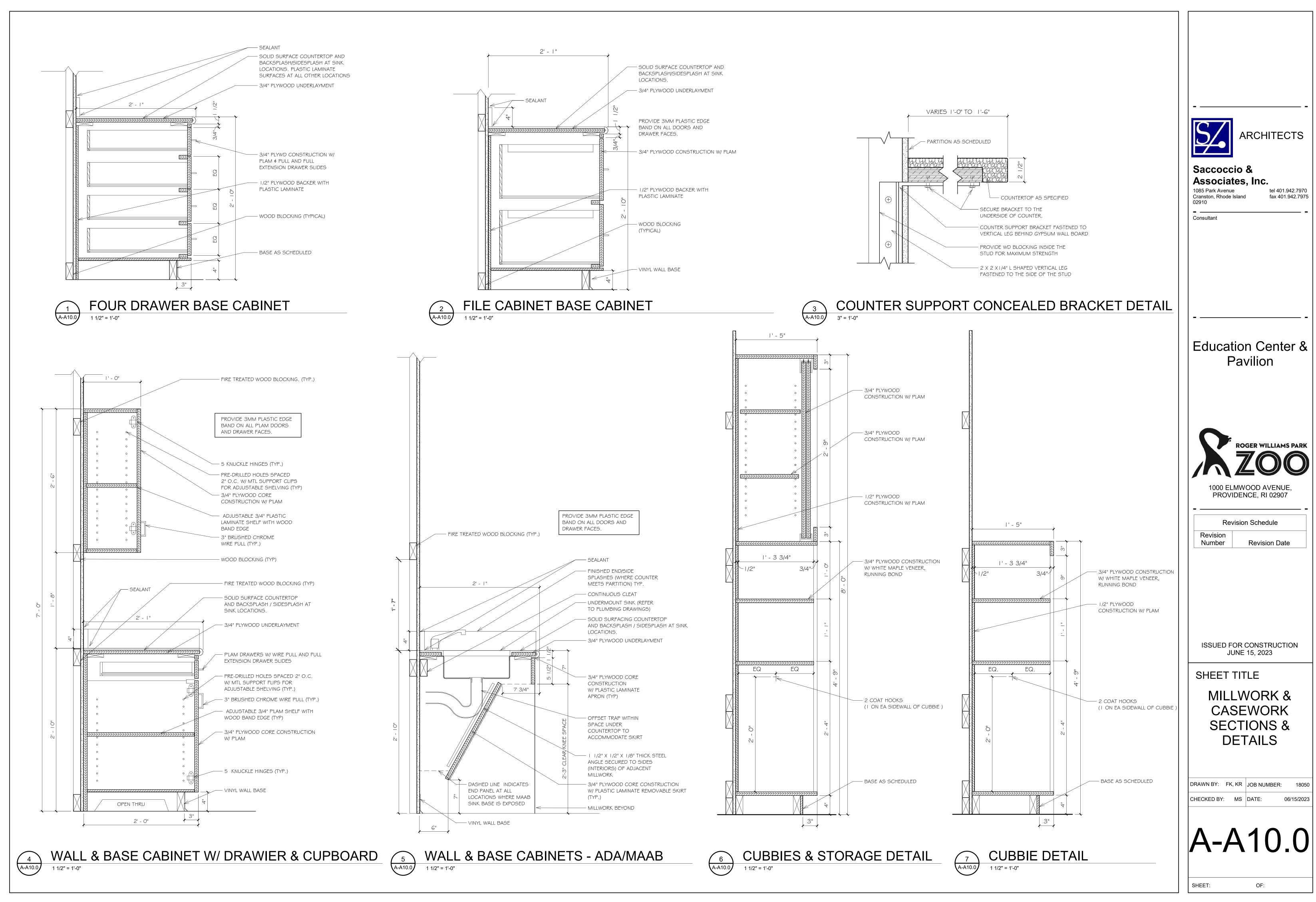


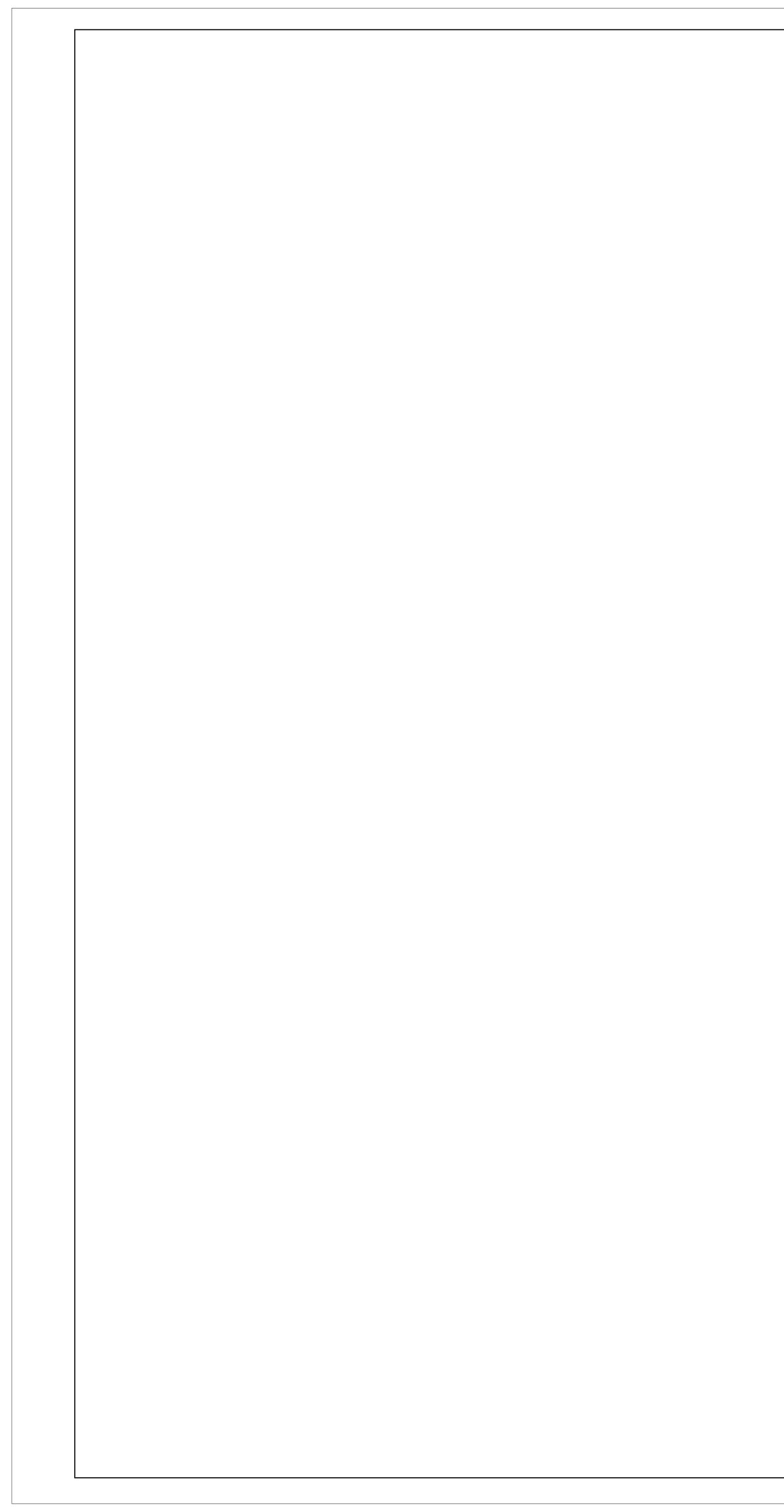


KEYNOTE	DESCRIPTION	FURNISHED BY	INSTALLED BY	FUNDED BY	COMMENTS
A-0 I	CORNERS LIMITED ANIMAL ENCLOSURES	OWNER	OWNER	OWNER	LAYOUT SHOWN FOR REFERENCE
A-01 A-02	STAINLESS STEEL TABLE W/ SINK	GC	GC	BASE BID	SEE PLUMBING DWG'S
A-02 A-03	STAINLESS STEEL CABINET W/ SINK	OWNER	GC	BASE BID	EXISTING ITEM TO BE RELOCATED
A-03 A-04	36" x 72" STAINLESS STEEL TABLE	GC	GC	BASE BID	
A-05	30" x 60" STAINLESS STEEL CABINET	GC	GC	BASE BID	
A-06	30" x 72" STAINLESS STEEL CABINET	GC	GC	BASE BID	
4-07	30" x 96" STAINLESS STEEL CABINET	OWNER	GC	BASE BID	EXISTING ITEM TO BE RELOCATED
A-08	WASH CENTER	GC	GC	BASE BID	
A-09	STORAGE CONTAINERS	OWNER	OWNER	OWNER	
A-10	24" x 48" WIRE SHELVES	GC	GC	BASE BID	
A-11	LARGE STAINLESS STEEL SINK	GC	GC	BASE BID	SEE PLUMBING DWG'S
A-12	WASHER & DRYER	GC	GC	BASE BID	SEE PLUMBING & ELECTIRCAL DWG'S
A-13	24" x 84" STAINLESS STEEL TABLE	GC	GC	BASE BID	
A-14	COUNTER TOP REFRIGERATOR	GC	GC	BASE BID	
A-15	REFRIGERATOR / FREEZER	GC	GC	BASE BID	
A-16	OFFICE DESK	OWNER	GC	ALLOWANCE	
A-17	OFFICE CHAIR	OWNER	GC	ALLOWANCE	
A-19	LATERAL FILE CABINET	OWNER	GC	ALLOWANCE	
A-20	FILE CABINET	OWNER	GC	ALLOWANCE	
A-21	COPY MACHINE	OWNER	OWNER	OWNER	SEE ELECTRICAL DWG'S
A-22	SYSTEM FURNITURE	OWNER	GC	ALLOWANCE	
A-23	TABLE ∉ CHAIRS	OWNER	GC	ALLOWANCE	
A-24	CONFERENCE ROOM TABLE ∉ CHAIRS	OWNER	GC	ALLOWANCE	
A-26	PRE-K CLASSROOM FURNITURE	OWNER	GC	ALLOWANCE	
A-27	CLASSROOM FURNITURE	OWNER	GC	ALLOWANCE	
A-28	NURSE DESK	OWNER	GC	ALLOWANCE	
4-29	NURSE BEDS	OWNER	GC	ALLOWANCE	
4-30	REFRIGERATOR	GC	GC	BASE BID	
A-31	DISHWASHER	GC	GC	BASE BID	
4-32	TV & MOUNTING BRACKET	GC	GC	BASE BID	SEE ELECTRICAL DWG'S
A-33	WHITE BOARD	GC	GC	BASE BID	SEE INTERIOR ELEVATIONS

## FURNITURE & EQUIPMENT SCHEDULE

Social and the second state is a second sta
 Education Center & Pavilion
ROGER WILLIAMS PARK ZOOO 1000 ELMWOOD AVENUE, PROVIDENCE, RI 02907 Revision Schedule Revision Number Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE UPPER LEVEL FURNITURE PLAN
DRAWN BY: SOS JOB NUMBER: 18050 CHECKED BY: MS DATE: 06/15/2023 AA-AA9.3 SHEET: OF:





SOLID SURFACE CAP - SS-1 ----

ANODIZED ALUMINUM REVEAL -

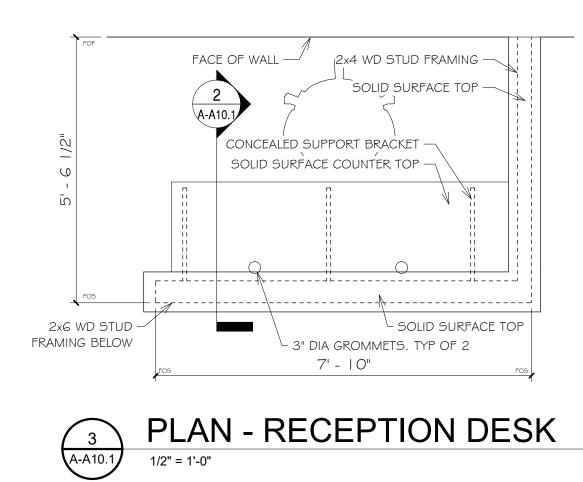
3/4" PLYWOOD WITH LAMINATE. WD-1 -

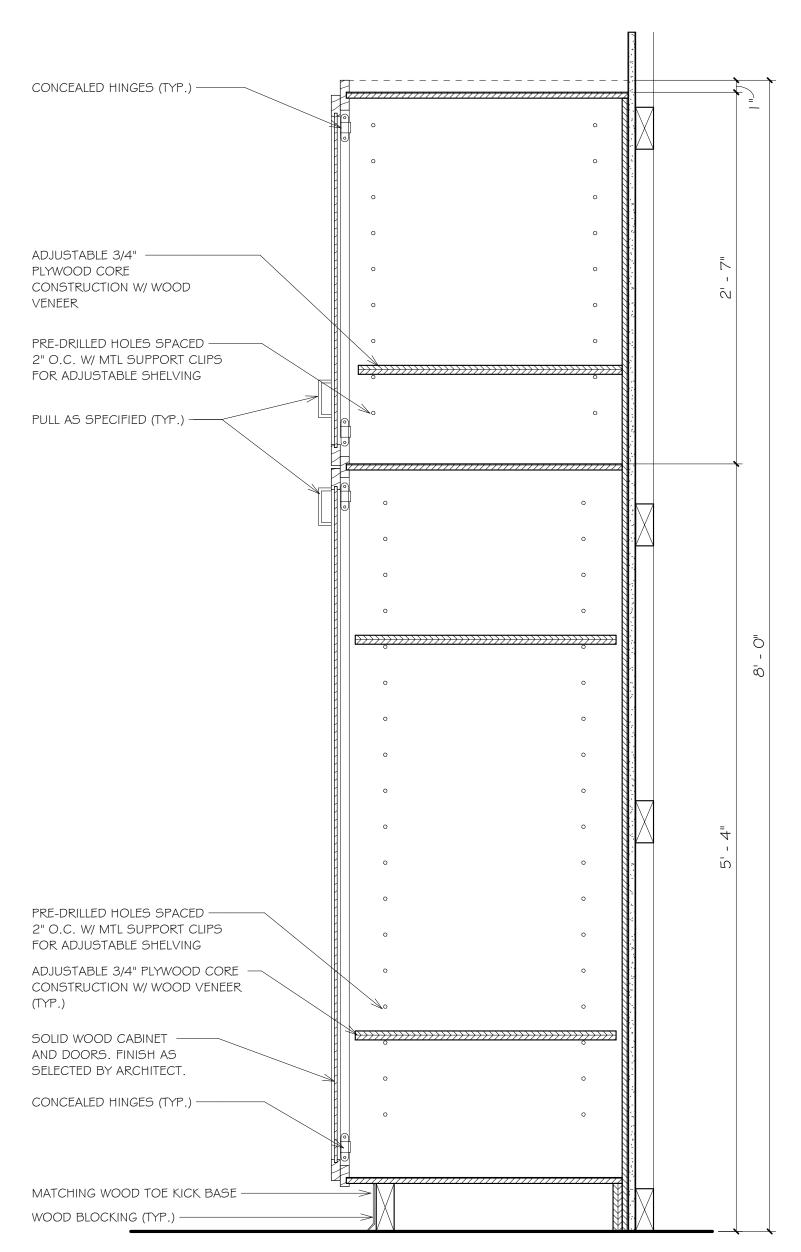
CONCEALED SUPPORT BRACKET -

WOOD BLOCKING (TYP) -----

ANODIZED ALUMINUM BASE -----

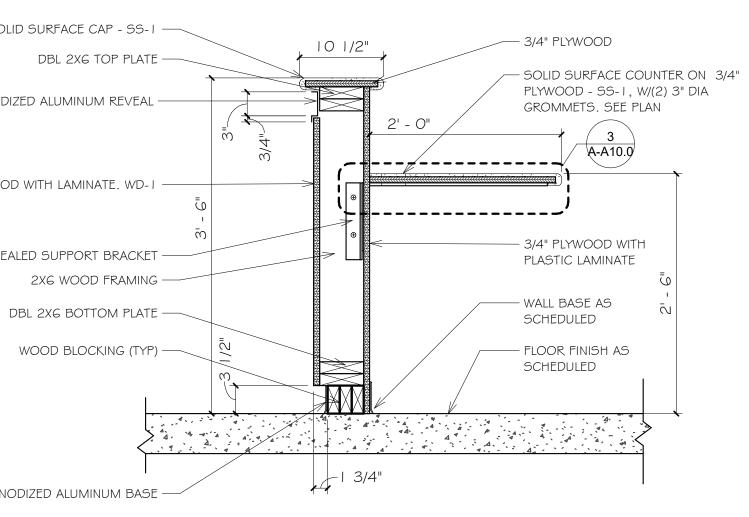






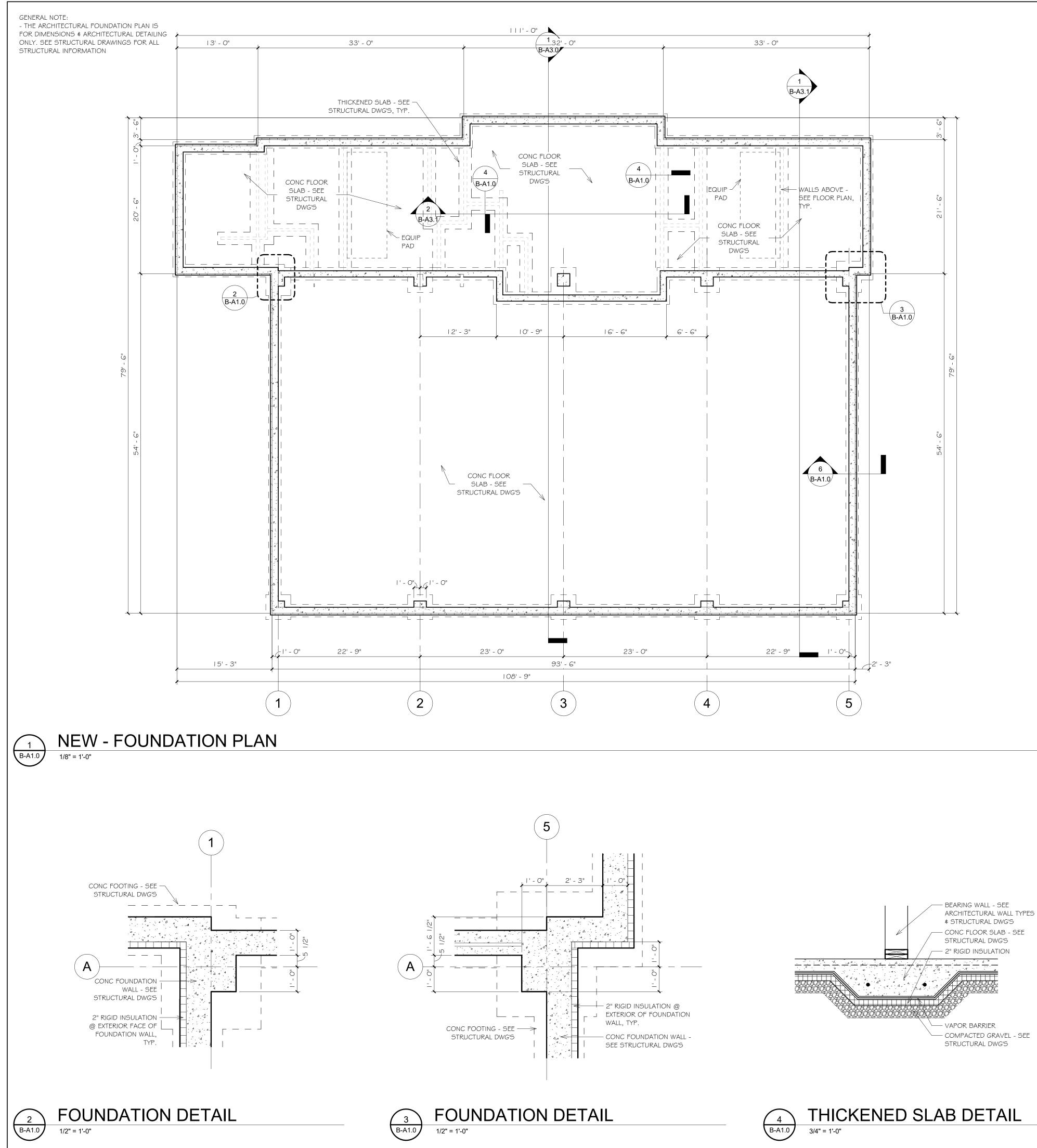


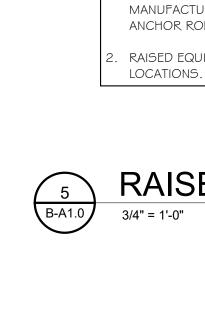
1 A-A10.1



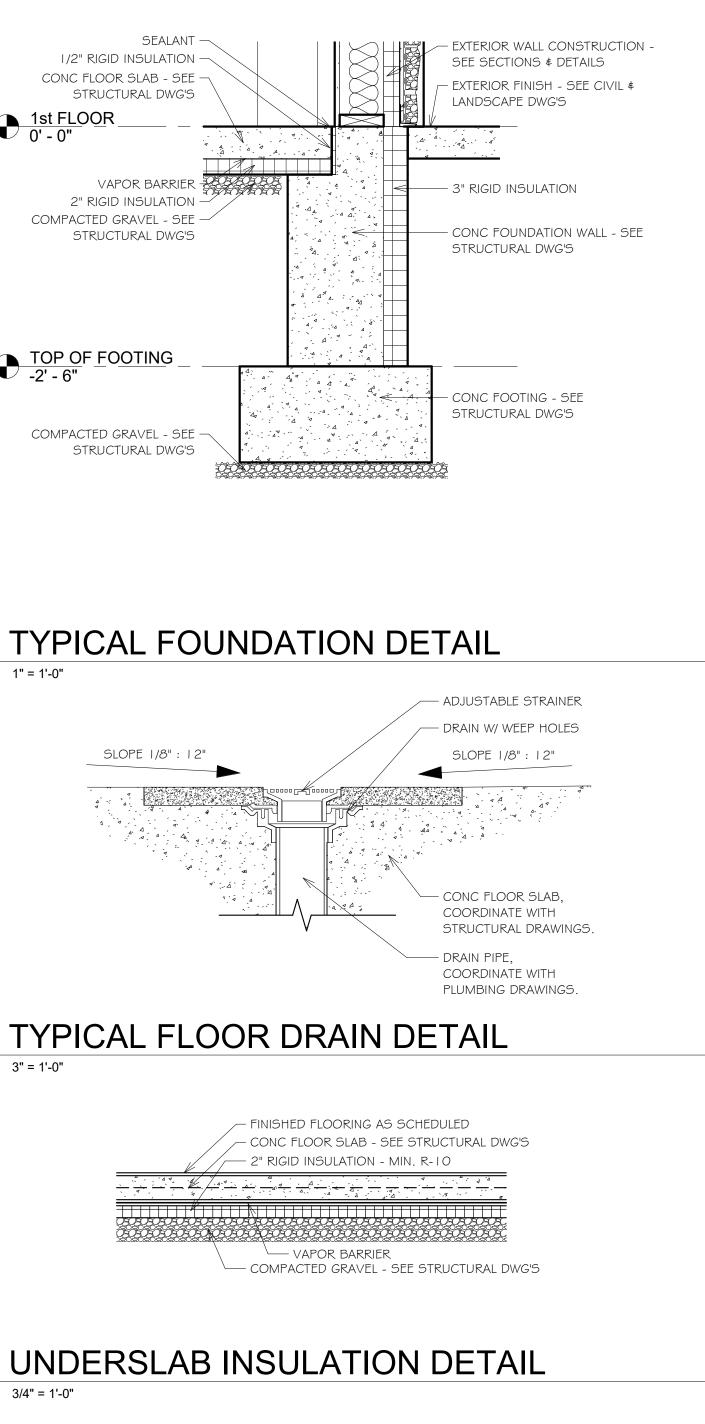
## SECTION - RECEPTION DESK

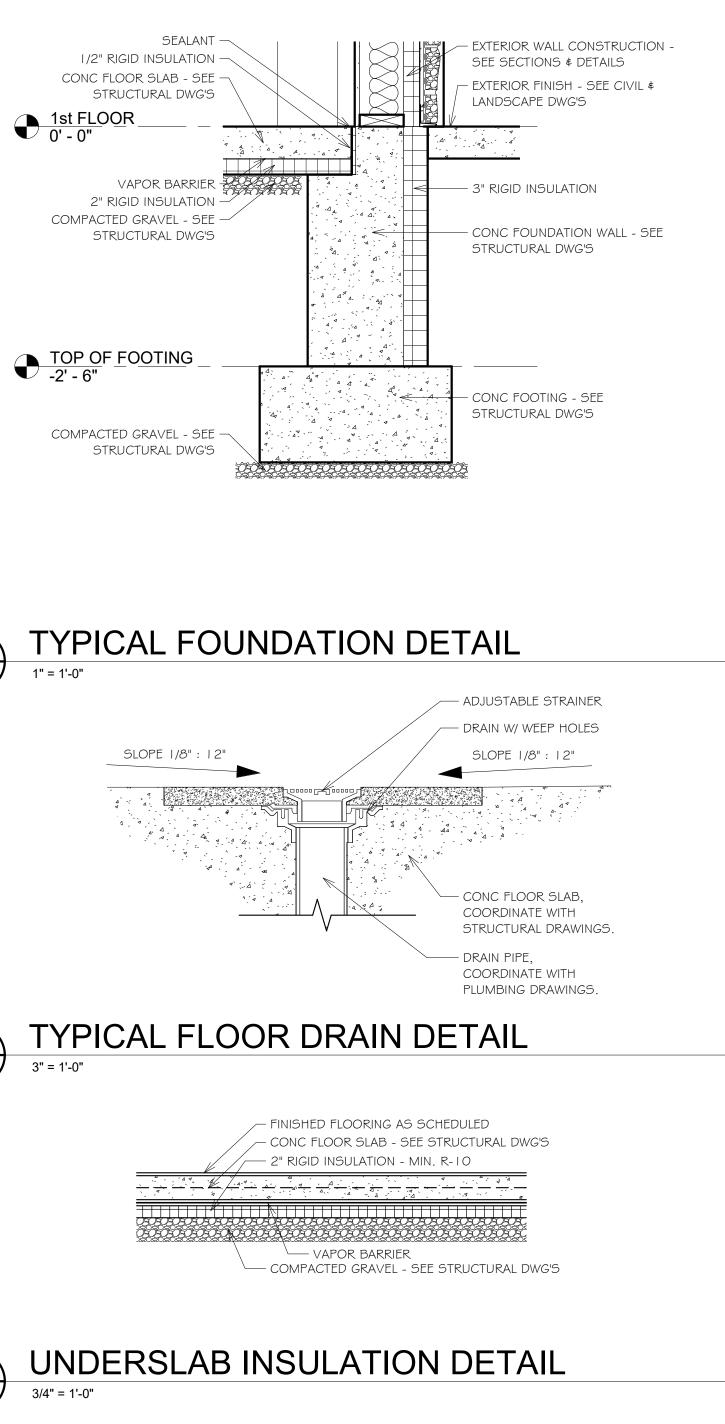
ARCHITECTS ARCHITECTS Saccoccio & Saccoccio & Saccocci
 Education Center & Pavilion
Roger williams park   ZOOO   D00 ELMWOOD AVENUE, PROVIDENCE, RI 02907 Revision Schedule Revision Number Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE MILLWORK & CASEWORK SECTIONS & DETAILS
DRAWN BY: KR JOB NUMBER: 18050 CHECKED BY: MS DATE: 06/15/2023 AA-A10.1 SHEET: OF:

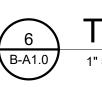


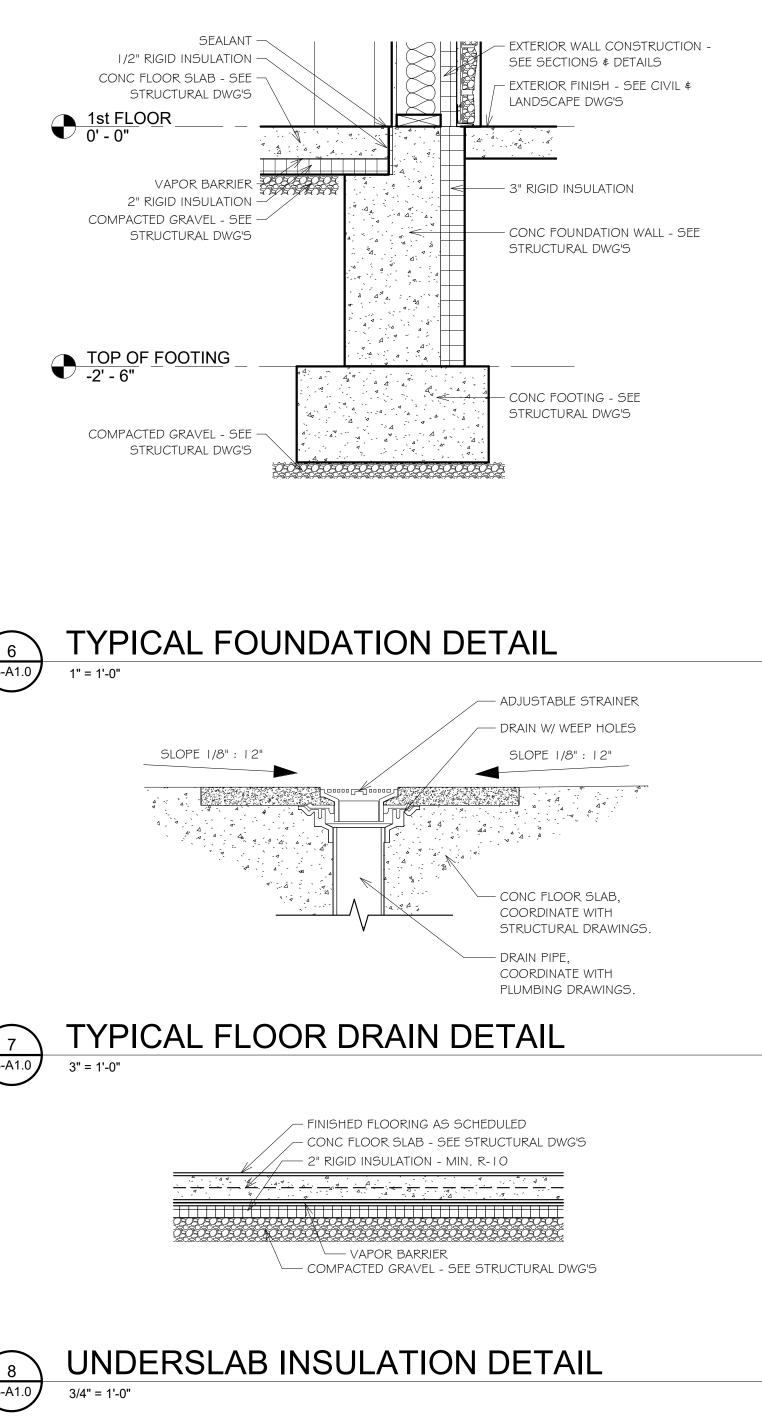


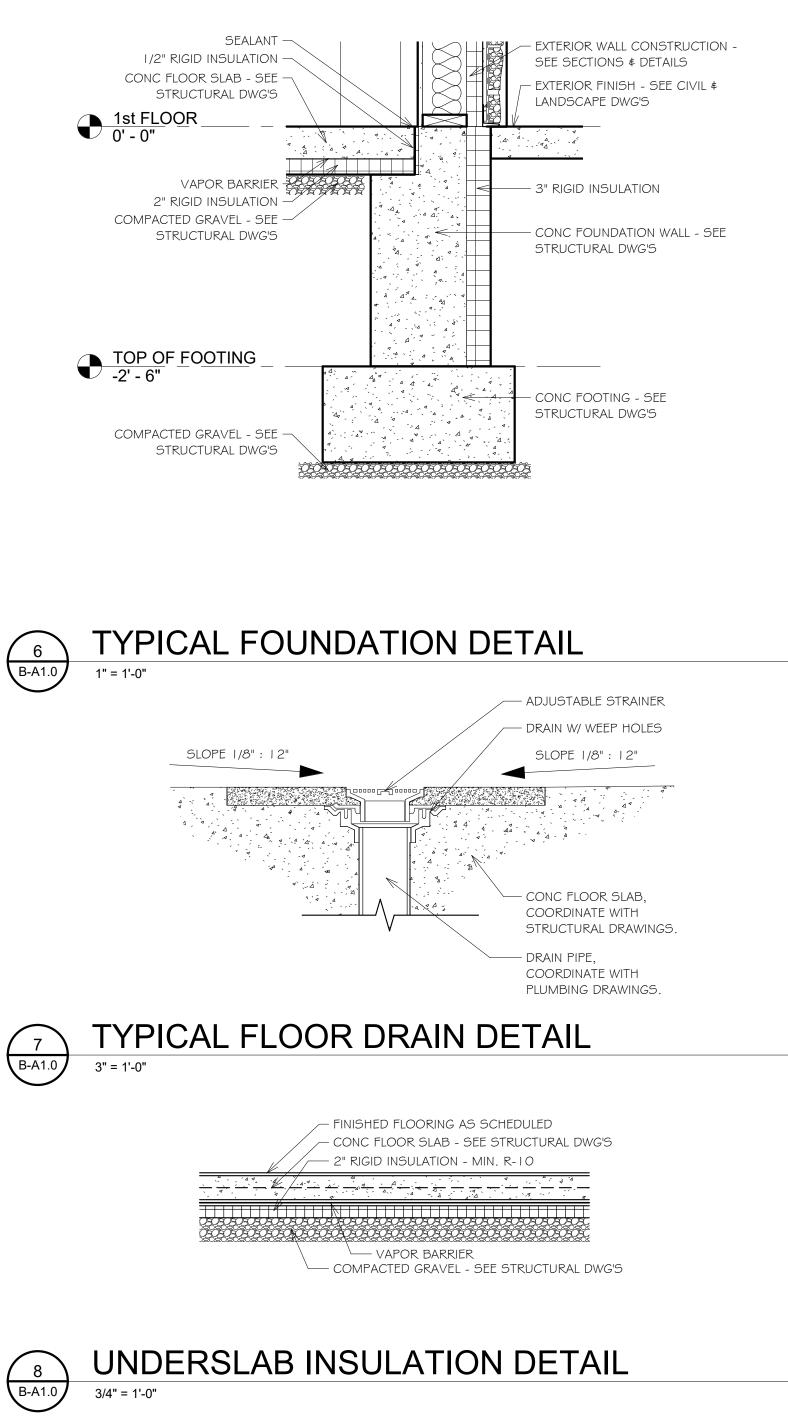
NOTES:

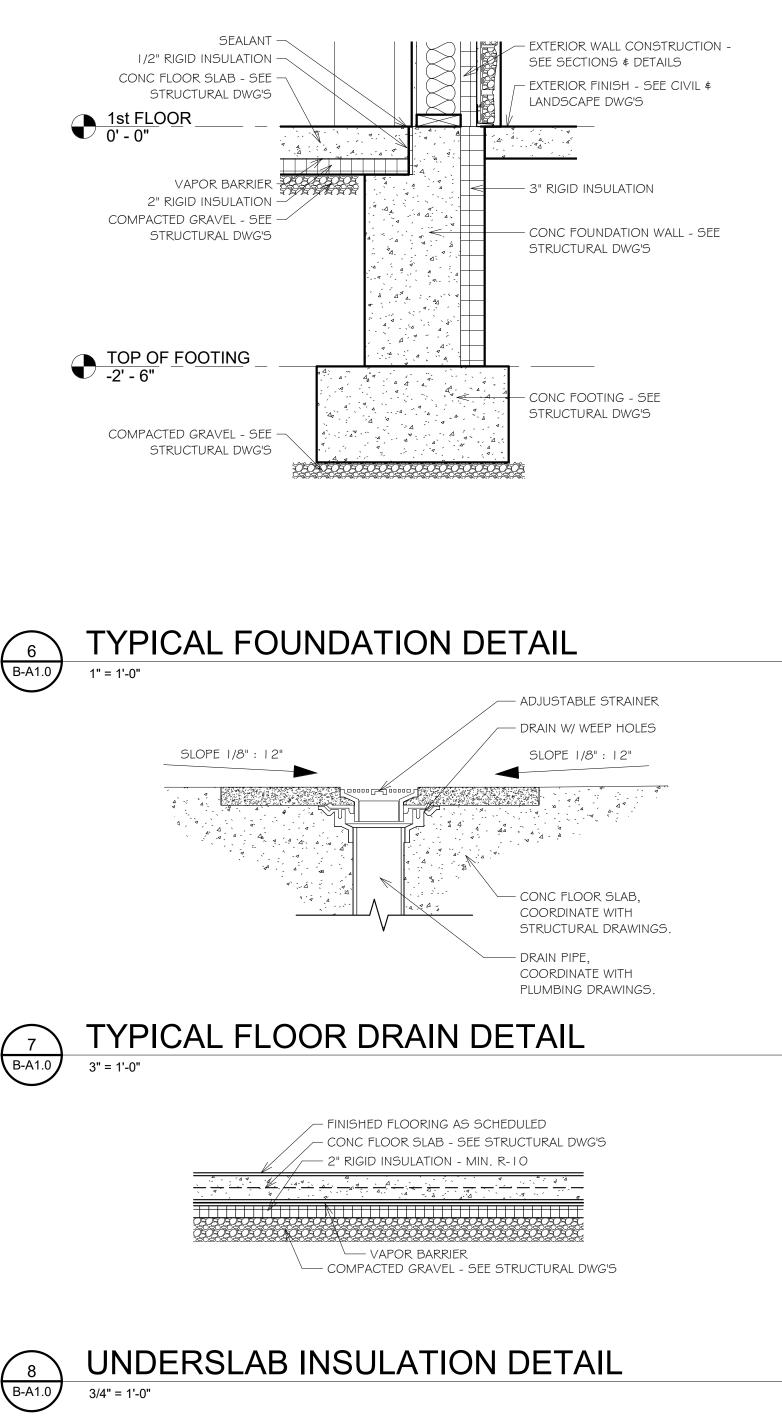


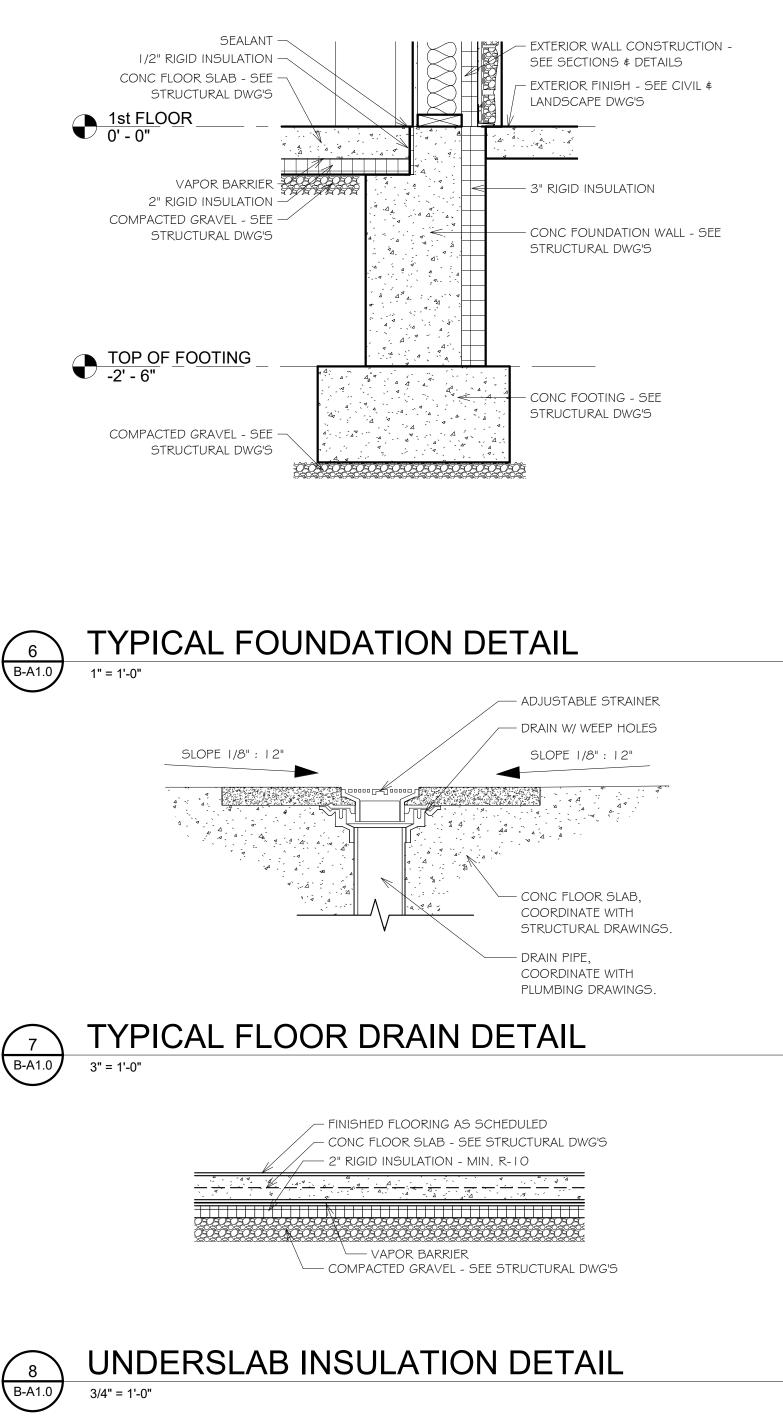


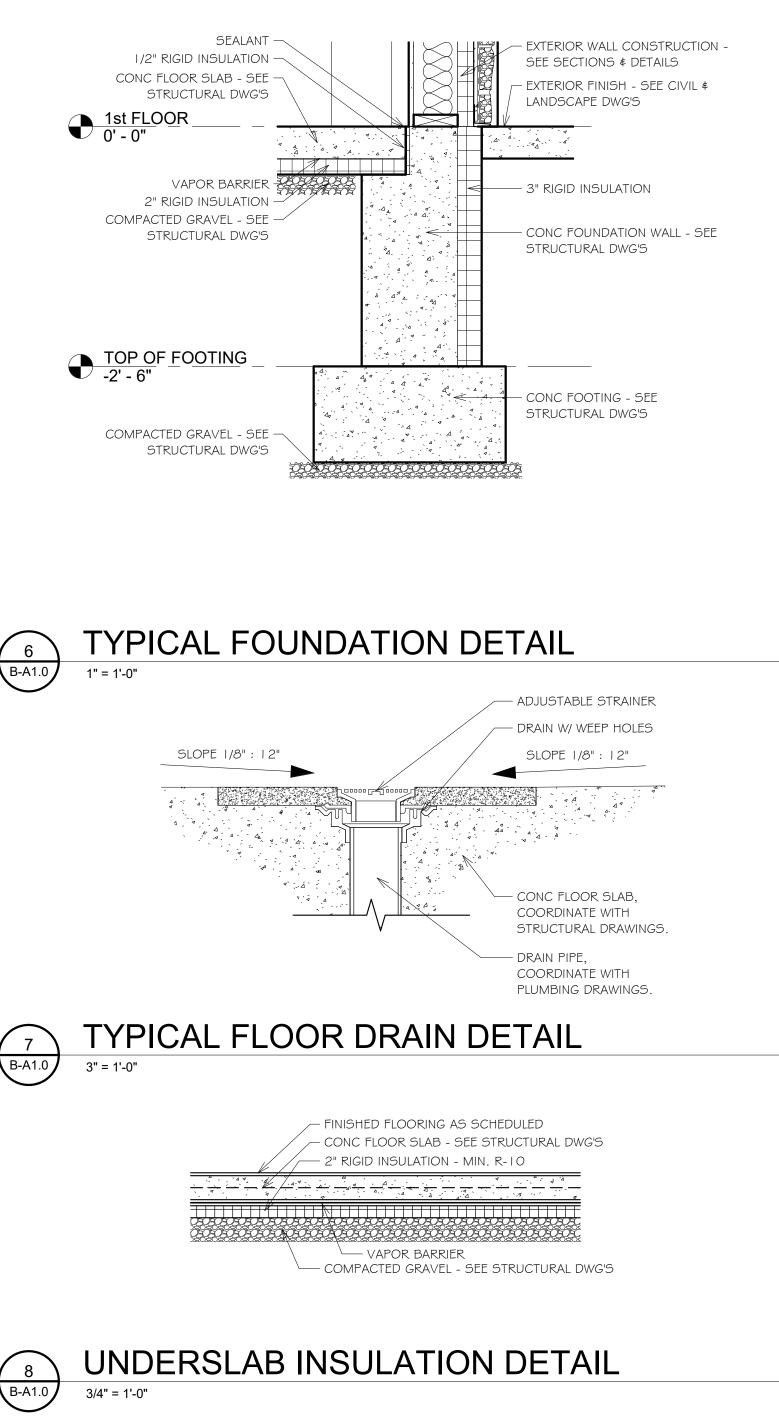








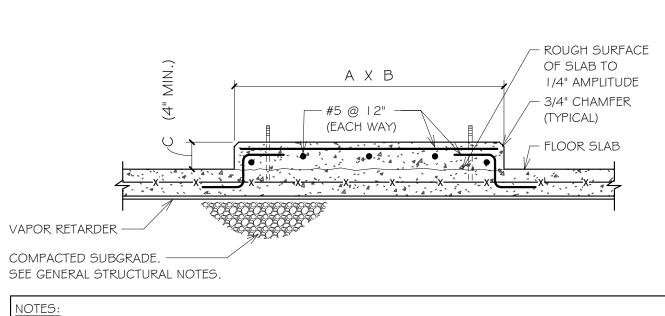








THICKENED SLAB DETAIL

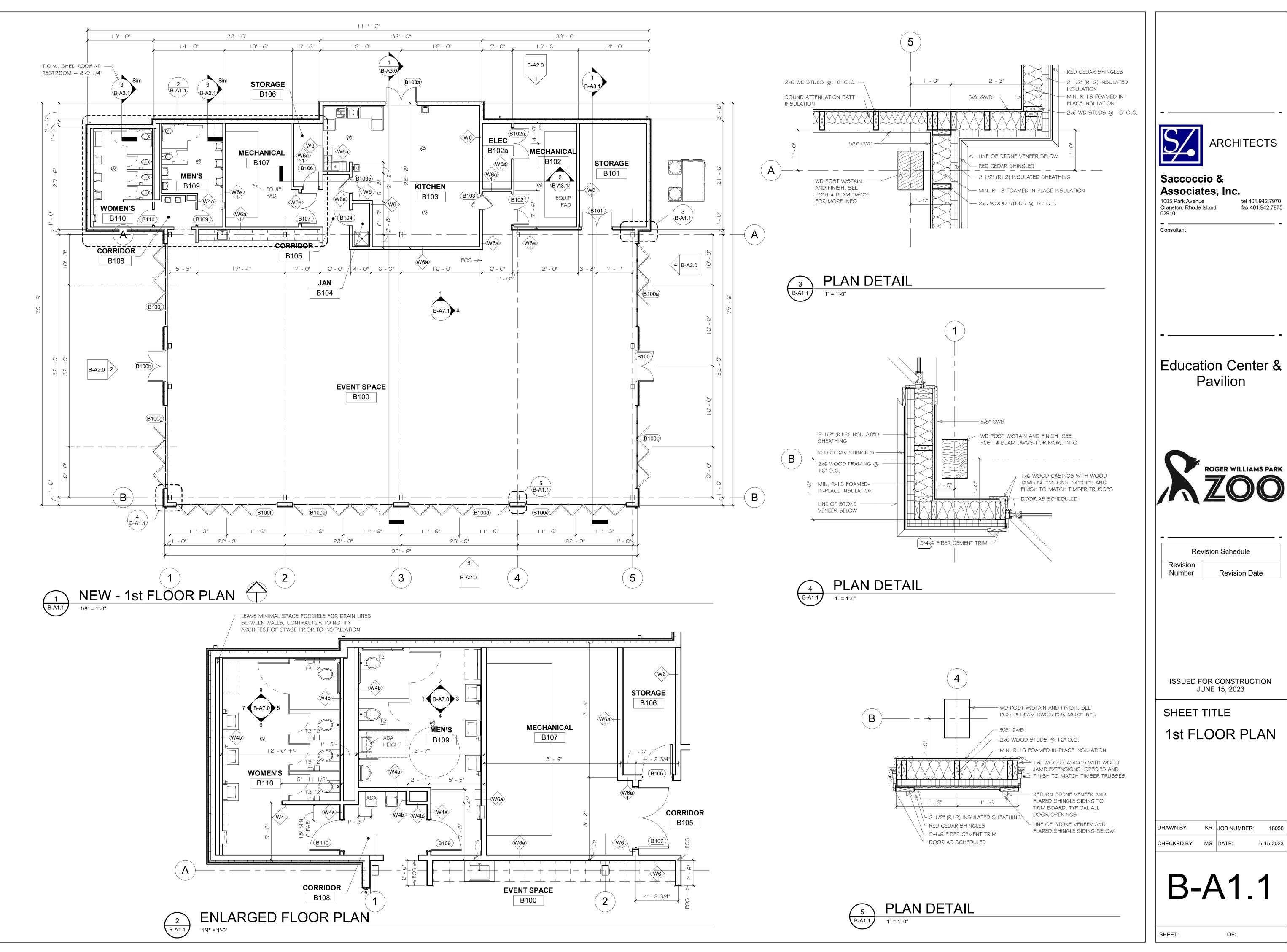


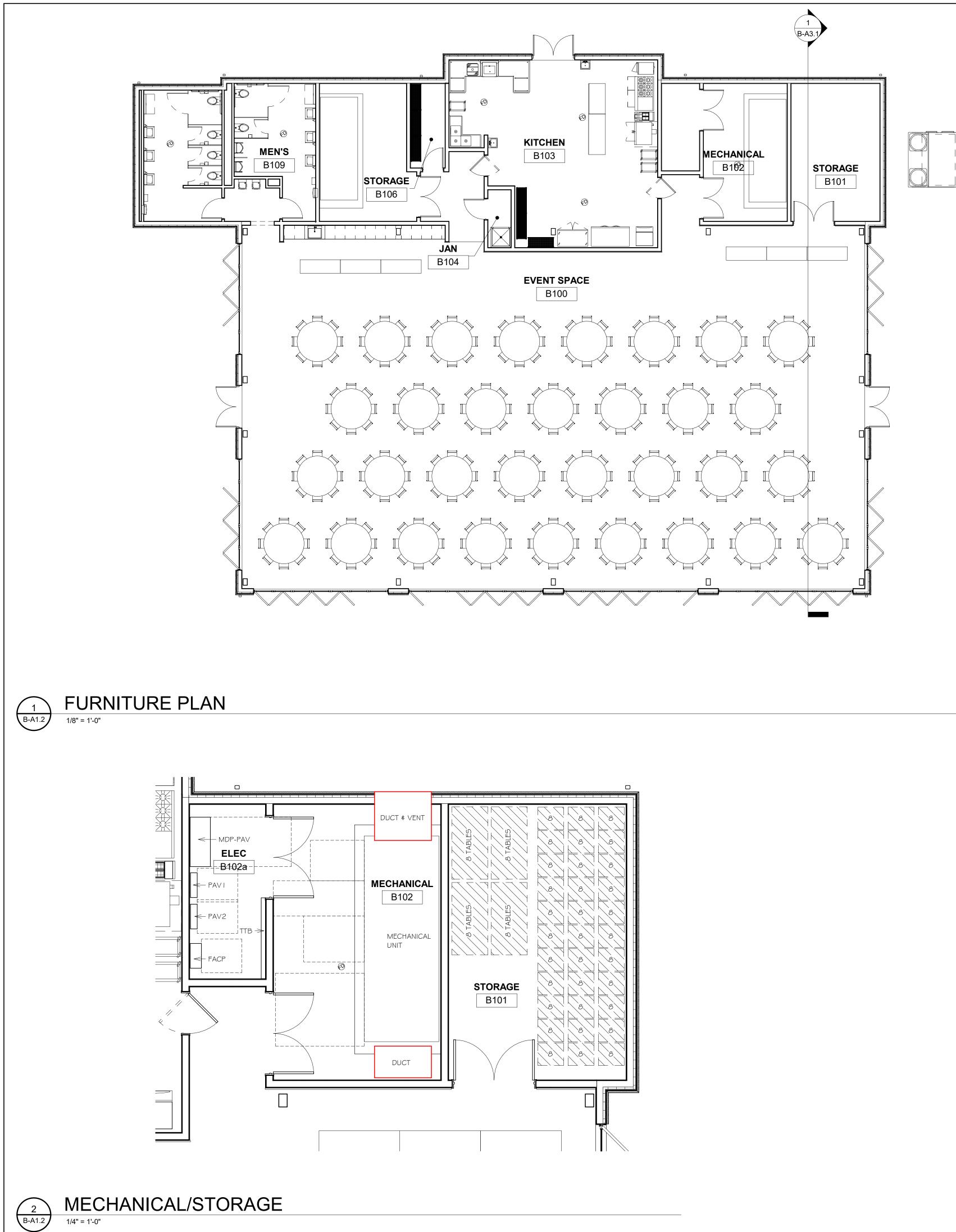
LOCATION, SIZE OF PAD (A, B & C DIMENSIONS), AND ANCHOR RODS AS REQUIRED BY EQUIPMENT MANUFACTURER. DRILLED IN EPOXY ANCHORS MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. ANCHOR RODS TO BE PROVIDED BY THE CONCRETE CONTRACTOR.

RAISED EQUIPMENT PADS ARE TO BE INSTALLED UNDER XXXX, XXXX. SEE DRAWING XXXX FOR

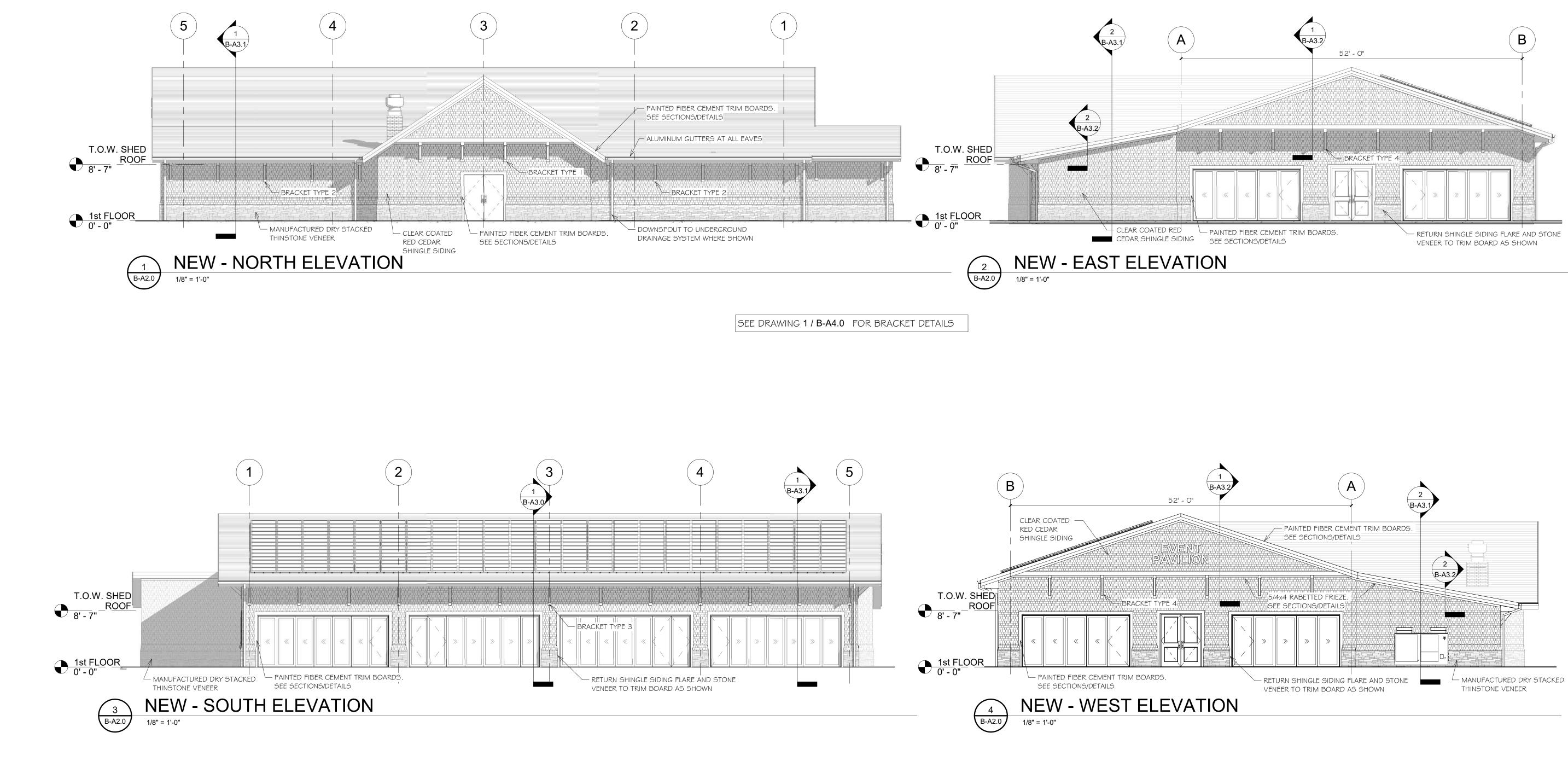
## RAISED EQUIPMENT PAD-SLAB-ON-GRADE

ARCHITECTS ARCHITECTS Saccoccio & Saccoccio & Associates, Inc. 1085 Park Avenue Cranston, Rhode Island 02910 Consultant
 Education Center & Pavilion
Revision   Revision   Number
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE FOUNDATION PLAN
DRAWN BY: KR JOB NUMBER: 18050 CHECKED BY: MS DATE: 6-15-2023 <b>B-A1.0</b>





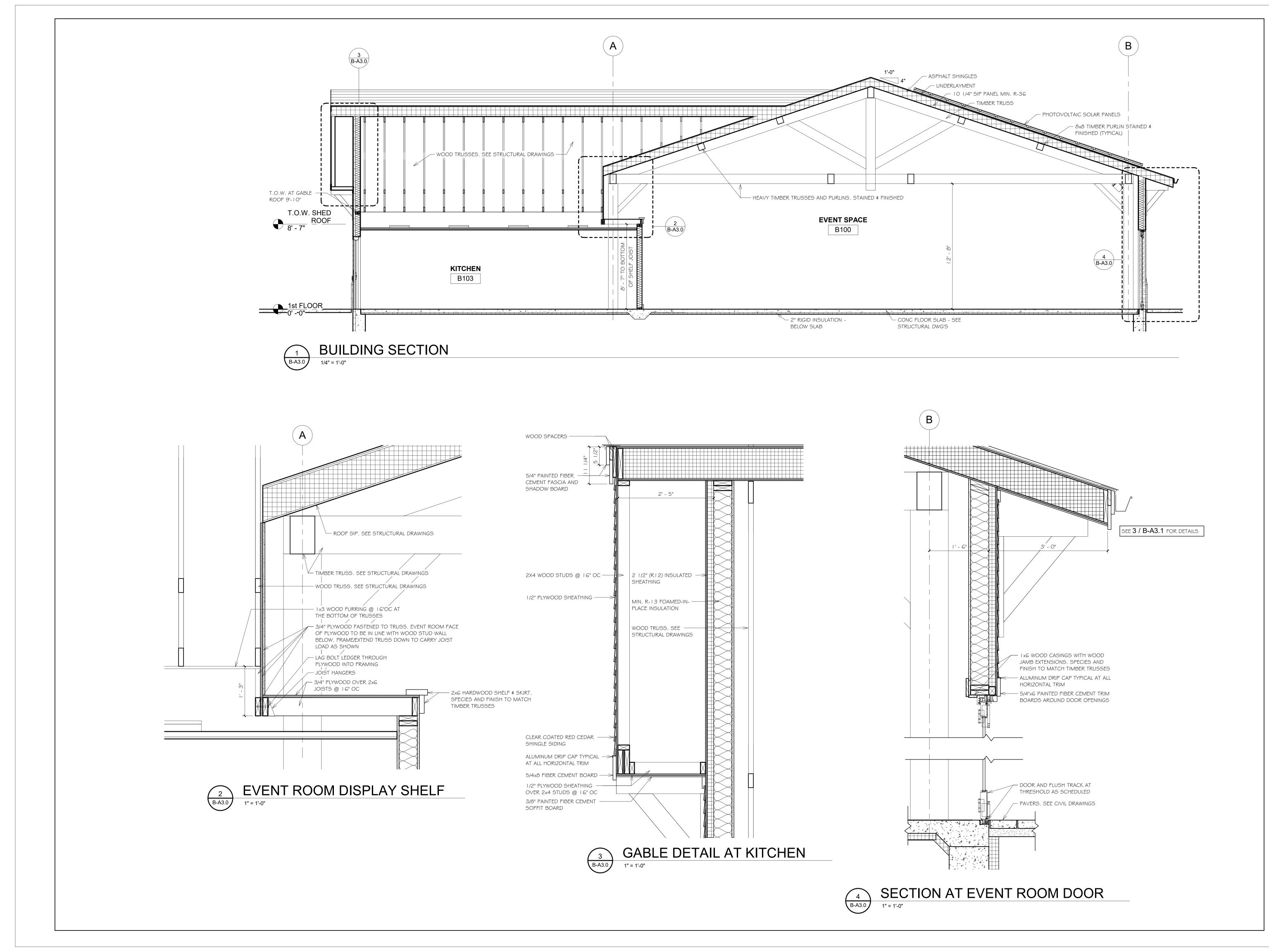
ARCHITECTS Saccoccio &
Associates, Inc. 1085 Park Avenue Cranston, Rhode Island 02910 Consultant Consultant
<b>-</b>
Education Center & Pavilion
ROGER WILLIAMS PARK
Revision Schedule Revision Number Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023
SHEET TITLE FURNITURE PLAN
DRAWN BY: KR JOB NUMBER: 18050 CHECKED BY: MS DATE: 6-15-2023
<b>B-A1.2</b> Sheet: OF:



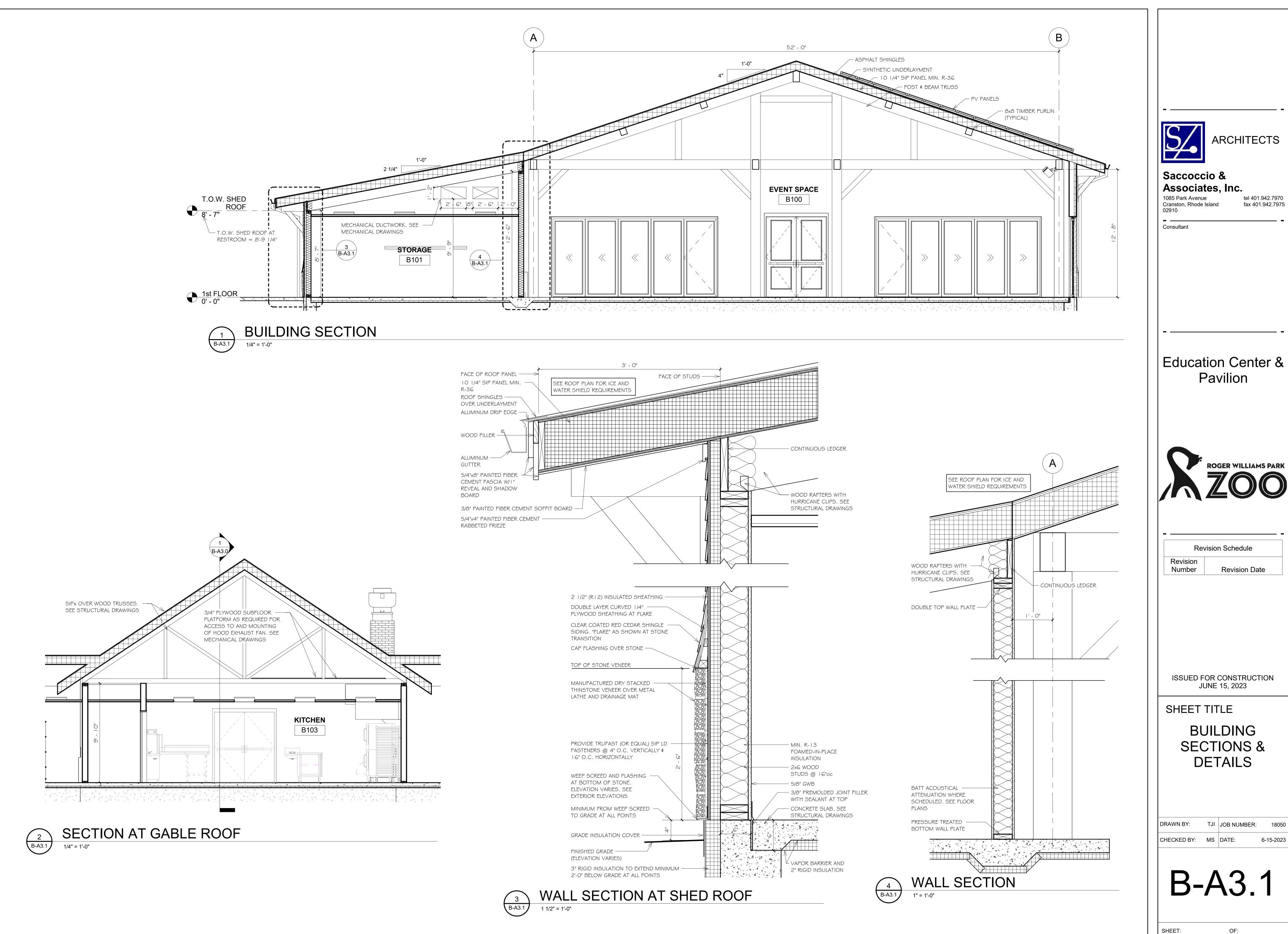
## EXTERIOR ELEVATION NOTES

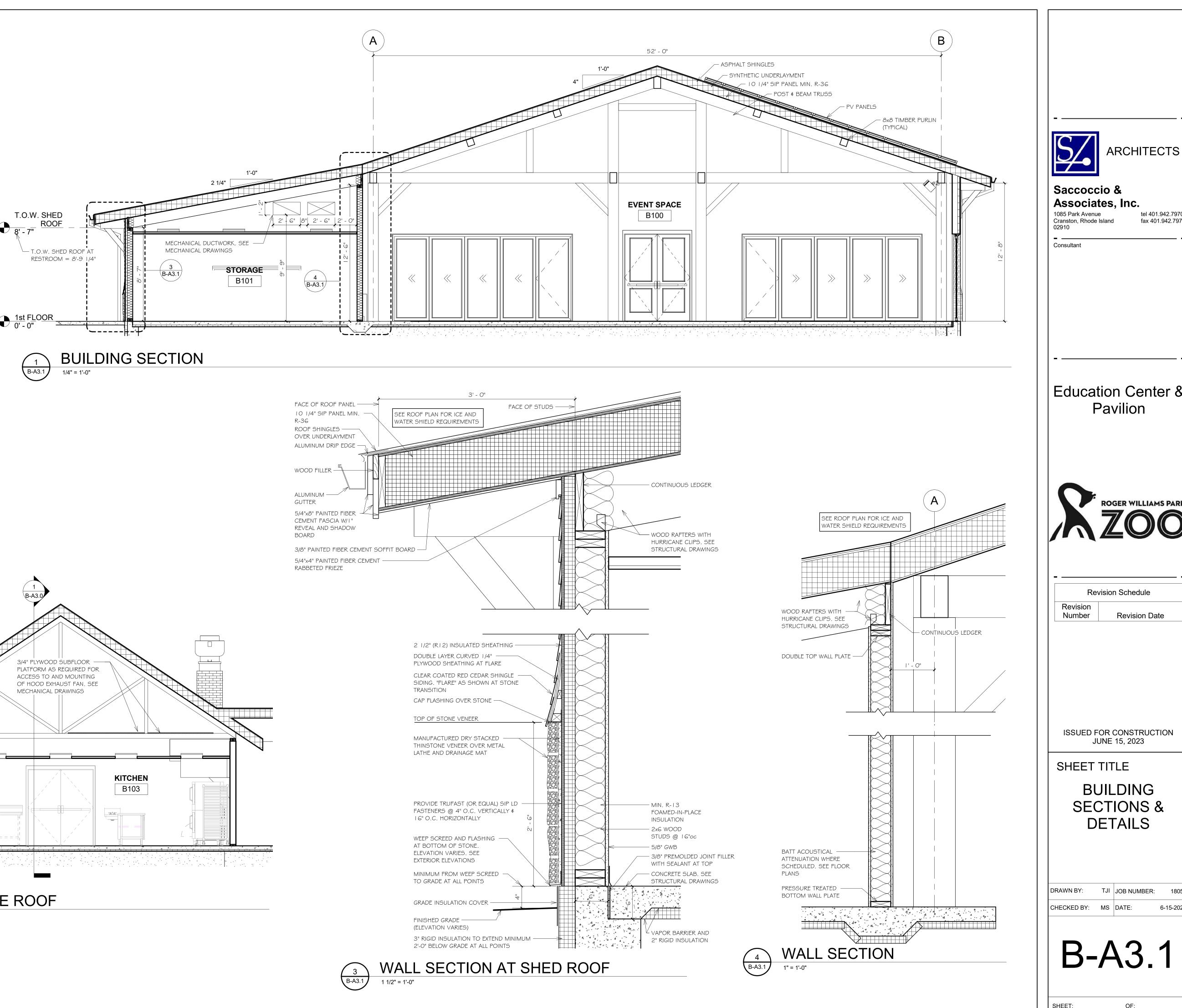
- . SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION AND CONTROL JOINTS. CONTRACTOR SHALL PROVIDED ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.
- 2. PROVIDE PLINTH BLOCKS BEHIND ALL EXTERIOR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

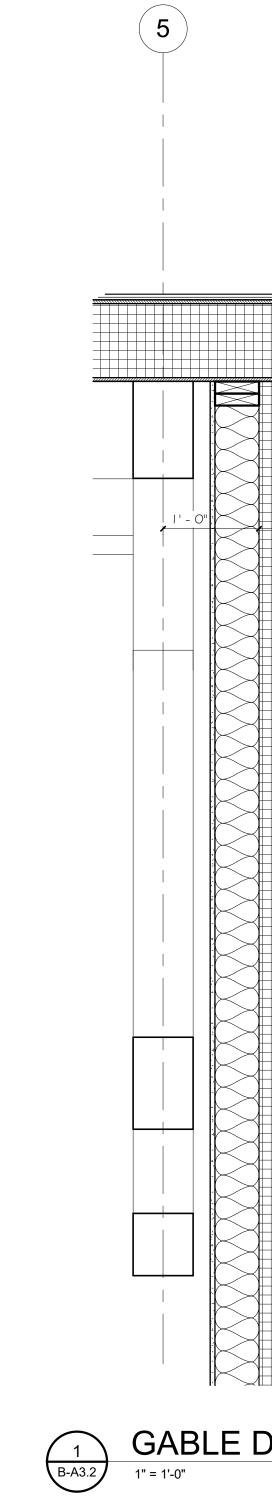
ARCHITECTS Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island 02910 fax 401.942.7975 Consultant Education Center & Pavilion **Revision Schedule** Revision **Revision Date** Number ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE EXTERIOR ELEVATIONS DRAWN BY: KR / TJI JOB NUMBER: 18050 CHECKED BY: MS DATE: 6-15-2023 B-A2.0 SHEET: OF:

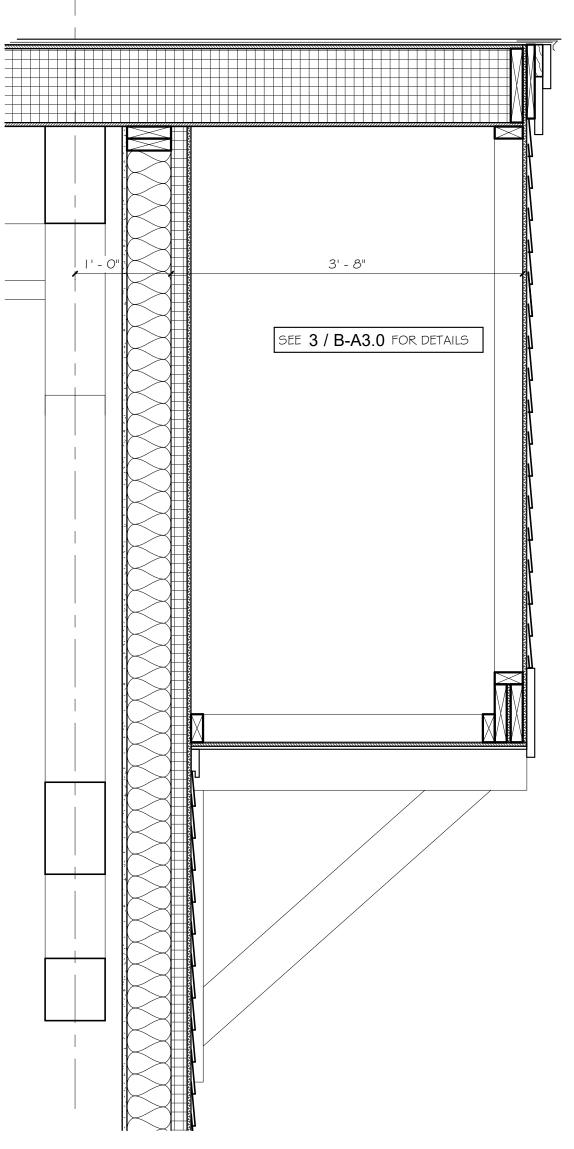


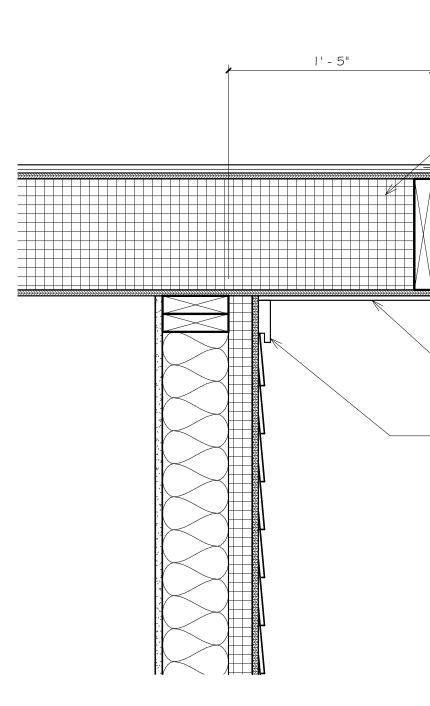
Solution       ARCHITECTS         Saccoccio &       Associates, Inc.         N85 Park Avenue       tel 401.942.7970         Cranston, Rhode Island       tel 401.942.7975         02910       consultant
 Education Center & Pavilion
ROGER WILLIAMS PARK         ZOOO         Revision Schedule         Revision         Number       Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE BUILDING
SECTIONS & DETAILS DRAWN BY: TJI JOB NUMBER: 18050 CHECKED BY: MS DATE: 6-15-2023 BAA3.0
SHEET: OF:











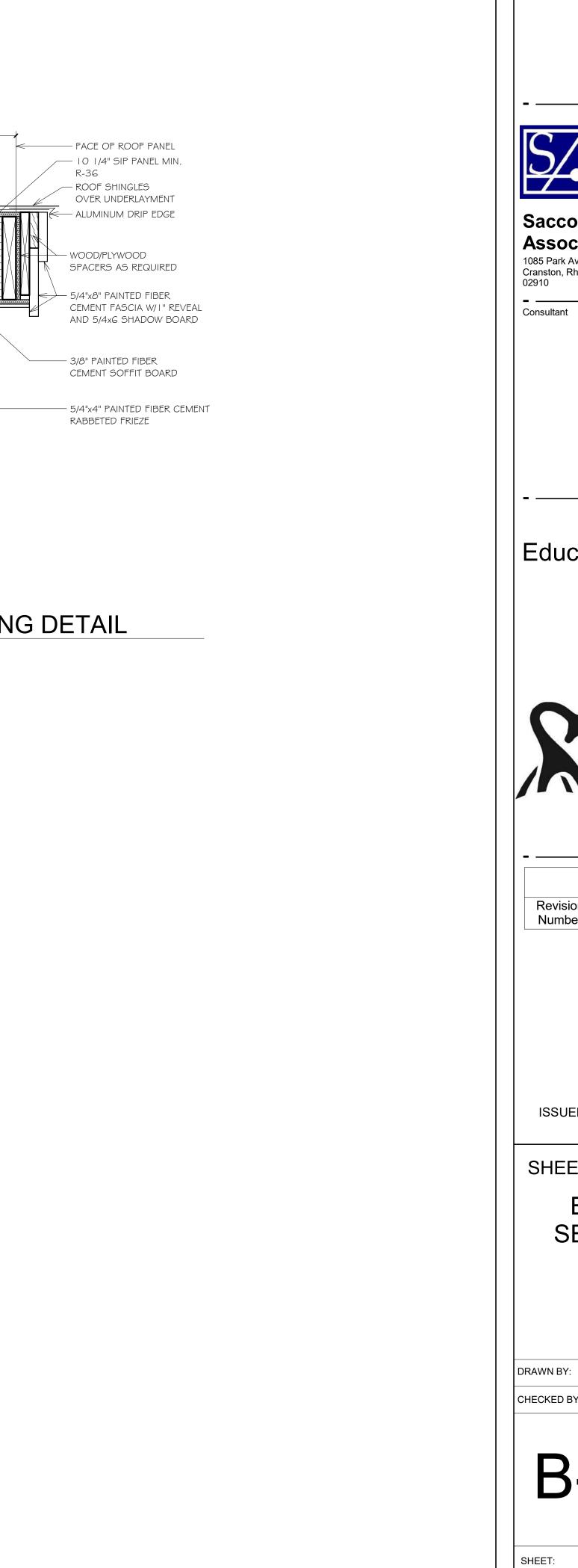


# SHED ROOF OVERHANG DETAIL 1 1/2" = 1'-0"

R-36

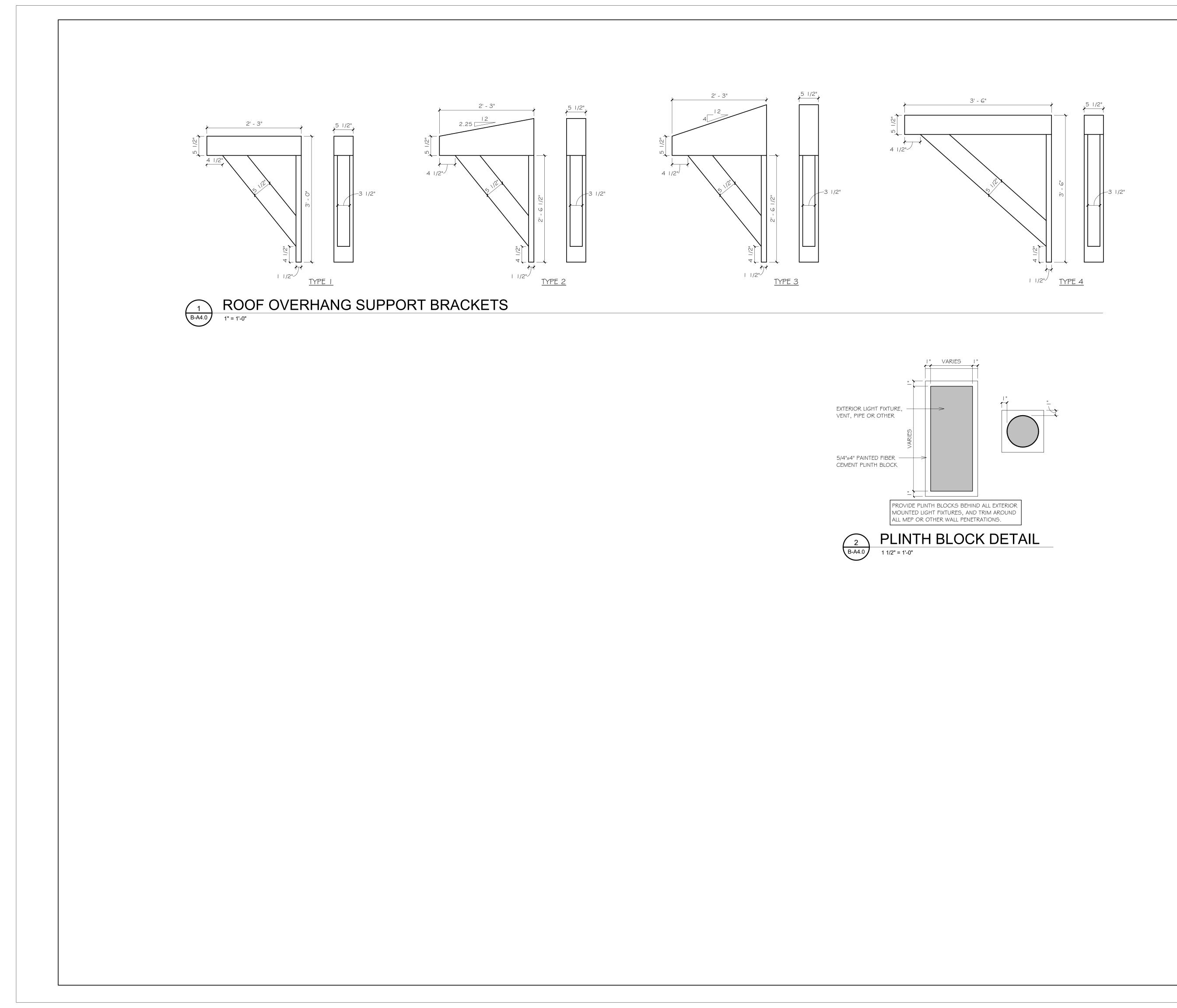
- ROOF SHINGLES

) GABLE DETAIL AT EVENT ROOM

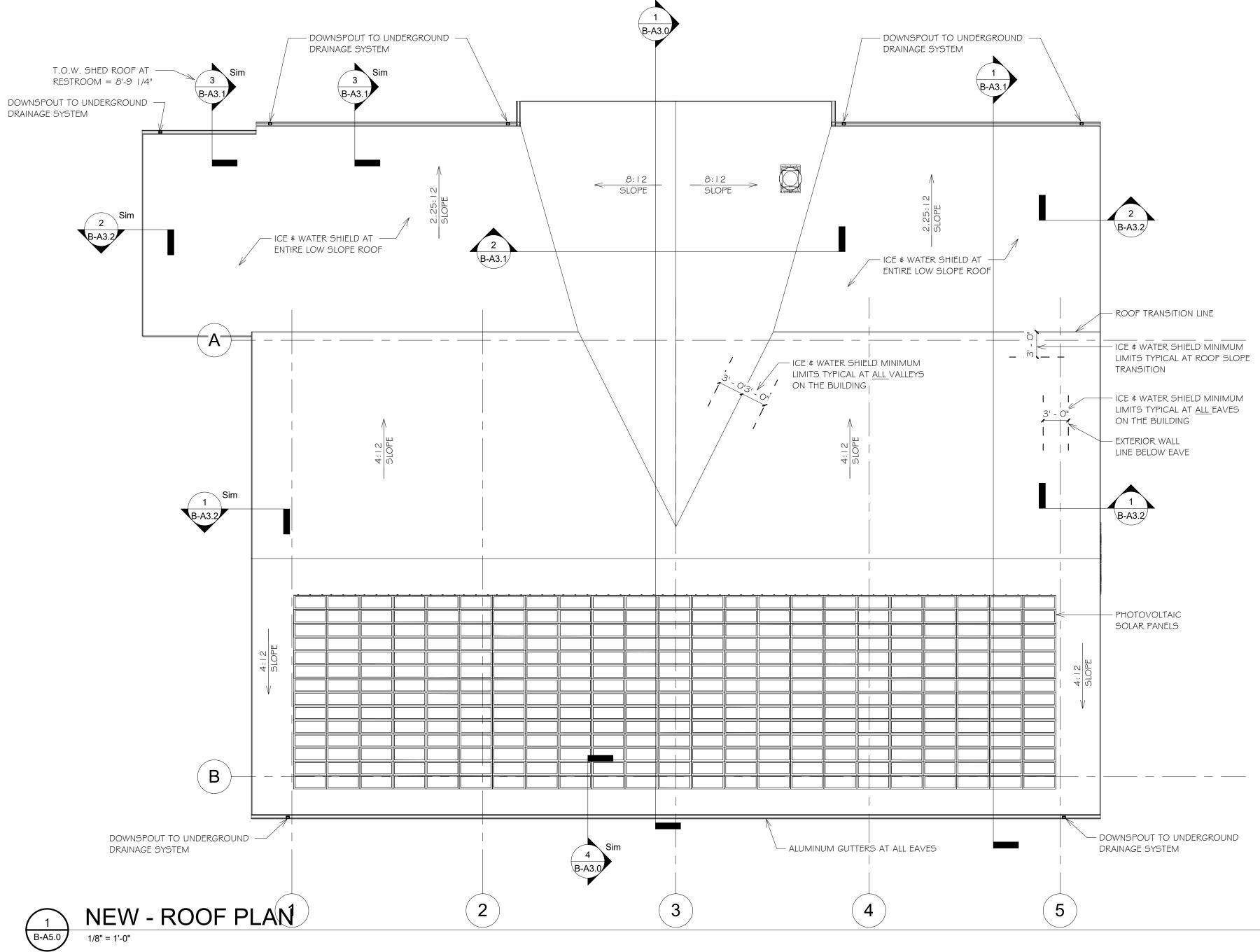


S ARCHITECTS
Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975
Consultant
Education Center & Pavilion
ROGER WILLIAMS PARK
Revision Schedule Revision Number Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023
SHEET TITLE
BUILDING SECTIONS & DETAILS
RAWN BY: TJI JOB NUMBER: 18050
HECKED BY: MS DATE: 6-15-2023
B-A3.2

OF:



ARCHITECTS
Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910 
Consultant
Education Center & Pavilion
ROGER WILLIAMS PARK ZOO
Revision Schedule Revision Number Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023
MISCELLANEOUS DETAILS
DRAWN BY: TJI JOB NUMBER: 18050 CHECKED BY: MS DATE: 6-15-2023
B-A4.0
SHEET: OF:

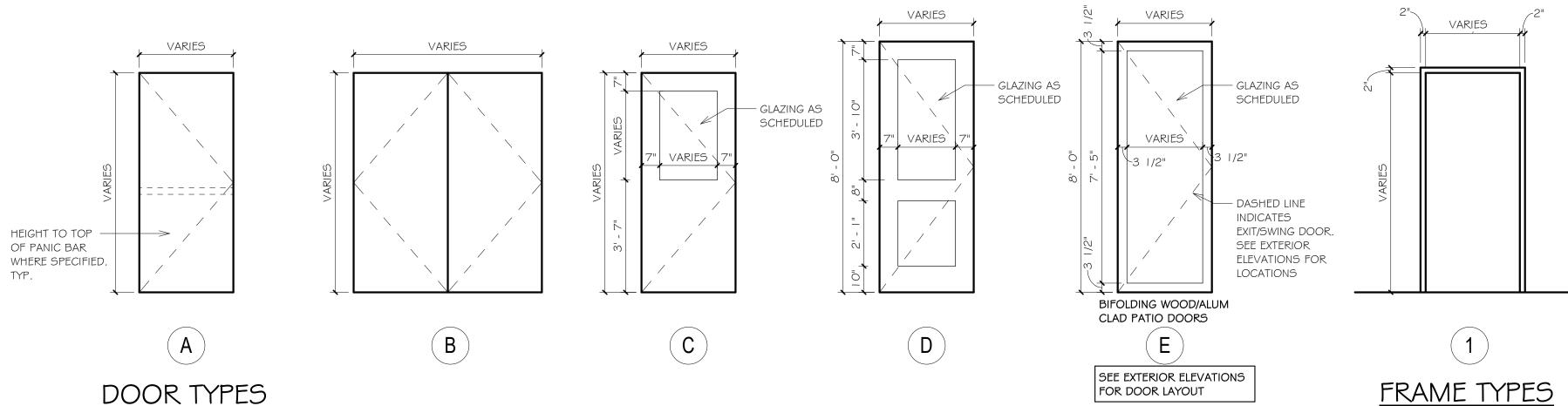


ARCHITECTS
Saccoccio & Associates, Inc. 1085 Park Avenue Cranston, Rhode Island 02910 Consultant
 Education Center & Pavilion
ROGER WILLIAMS PARK ZOOO
Revision Schedule Revision Number Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023
ROOF PLAN & DETAILS
DRAWN BY: TJI JOB NUMBER: 18050 CHECKED BY: MS DATE: 6-15-2023
B-A5.0

SHEET:

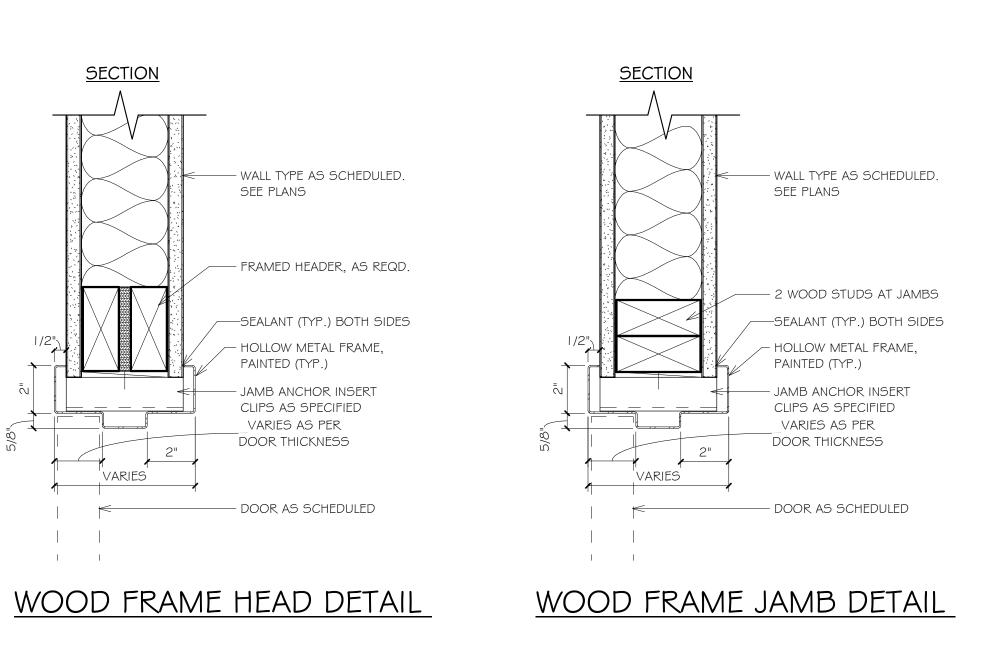
OF:

DOOR SCHEDULE																
		DOOR						FRAME DETAILS			AILS					
NUMBER	TO ROOM	WIDTH	HEIGHT	THICKNESS	ELEV	MATERIAL	FINISH	GLAZING	ELEV	MATERIAL	FINISH	FIRE RATING	G HEAD	JAMB	HARDWAR	E COMMENTS
3100	EVENT SPACE	6' - 0"	8' - 0"	0'-   3/4"	D	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP	1	WD/ALUM CLAD	PT	_	4/B-A3.0	5/B-A1.1	I	WEATHERSTRIP
3100a	EVENT SPACE	16'-6"	8' - 0"	0'-21/16"	E	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP		WD/ALUM CLAD	PT	_	4/B-A3.0	5/B-A1.1	-	SEE EXTERIOR ELEVATIONS FOR LAYOL
31006	EVENT SPACE	16'-6"	8' - 0"	0'-21/16"	E	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP		WD/ALUM CLAD	PT	_	4/B-A3.0	5/B-A1.1	-	SEE EXTERIOR ELEVATIONS FOR LAYOU
3100 <i>c</i>	EVENT SPACE	20' - 0"	8' - 0"	0'-21/16"	E	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP		WD/ALUM CLAD	PT	_	4/B-A3.0	5/B-A1.1	-	SEE EXTERIOR ELEVATIONS FOR LAYOL
3100d	EVENT SPACE	20' - 0"	8' - 0"	0'-21/16"	E	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP		WD/ALUM CLAD	PT	-	4/B-A3.0	5/B-A1.1	-	SEE EXTERIOR ELEVATIONS FOR LAYO
3100e	EVENT SPACE	20' - 0"	8' - 0"	0'-21/16"	E	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP		WD/ALUM CLAD	PT	-	4/B-A3.0	5/B-A1.1	-	SEE EXTERIOR ELEVATIONS FOR LAYOU
3   OOf	EVENT SPACE	20' - 0"	8' - 0"	0'-21/16"	E	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP		WD/ALUM CLAD	PT	_	4/B-A3.0	5/B-A1.1	-	SEE EXTERIOR ELEVATIONS FOR LAYOU
3100g	EVENT SPACE	16' - 6"	8' - 0"	0'-21/16"	E	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP		WD/ALUM CLAD	PT	-	4/B-A3.0	5/B-A1.1	-	SEE EXTERIOR ELEVATIONS FOR LAYO
3100h	EVENT SPACE	6' - 0"	8' - 0"	0' -   3/4"	D	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP		WD/ALUM CLAD	PT	-	4/B-A3.0	5/B-A1.1	2	WEATHERSTRIP
3 I OOj	EVENT SPACE	16' - 6"	8' - 0"	0'-21/16"	-	INSUL/WD/ALUM CLAD	PT	INSUL/TEMP		WD/ALUM CLAD	PT	_	4/B-A3.0	5/B-A1.1	-	SEE EXTERIOR ELEVATIONS FOR LAYO
3101	STORAGE	6' - 0"	7' - 0"	0' -   3/4"	A	HM	PT	-		HM	PT	_	2/B-A6.0	2/B-A6.0	21	
3102	MECHANICAL	6' - 0"	7' - 0"	0' -   3/4"	A	HM	PT	-		НМ	PT	45 MIN	2/B-A6.0	2/B-A6.0	13	
3102a	ELEC	6' - 0"	7' - 0"	0'-  3/4"	A	HM	PT	-		НМ	PT	45 MIN	2/B-A6.0	2/B-A6.0	13	
3103	KITCHEN	3' - 0"	7' - 0"	0' -   3/4"	С	HM	PT	TEMP		HM	PT	-	2/B-A6.0	2/B-A6.0	22	DOUBLE ACTING
3103a	KITCHEN	6' - 0"	7' - 0"	0' -   3/4"	В	INSUL/GHM	PT	-		GHM	PT	-	2/B-A6.0	2/B-A6.0	6	WEATHERSTRIP
B103b	KITCHEN	3' - 0"	7' - 0"	0' -   3/4"	С	HM	PT	TEMP		HM	PT	-	2/B-A6.0	2/B-A6.0	22	DOUBLE ACTING
3104	JAN	3' - 0"	7' - 0"	0' -   3/4"	A	HM	PT	-		HM	PT	-	2/B-A6.0	2/B-A6.0	20	
3106	STORAGE	3' - 0"	7' - 0"	0' -   3/4"	A	HM	PT	-		HM	PT	-	2/B-A6.0	2/B-A6.0	12	
3107	MECHANICAL	6' - 0"	7' - 0"	0' -   3/4"	В	HM	PT	-	1	HM	PT	45 MIN	2/B-A6.0	2/B-A6.0	13	
3109	MEN'S	3' - 0"	7' - 0"	0' -   3/4"	A	HM	PT	-		HM	PT	-	2/B-A6.0	2/B-A6.0	8	
3110	WOMEN'S	3' - 0"	7' - 0"	0' -   3/4"	A	HM	PT	-		HM	PT		2/B-A6.0	2/B-A6.0	8	



DOOR TYPES



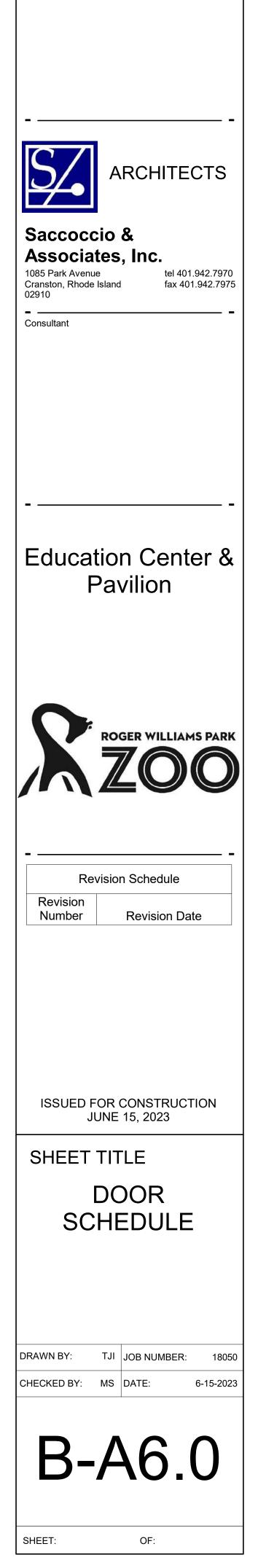


# **INTERIOR DOOR DETAILS-PAVILION** 3" = 1'-0"

2 B-A6.0

# DOOR NOTES

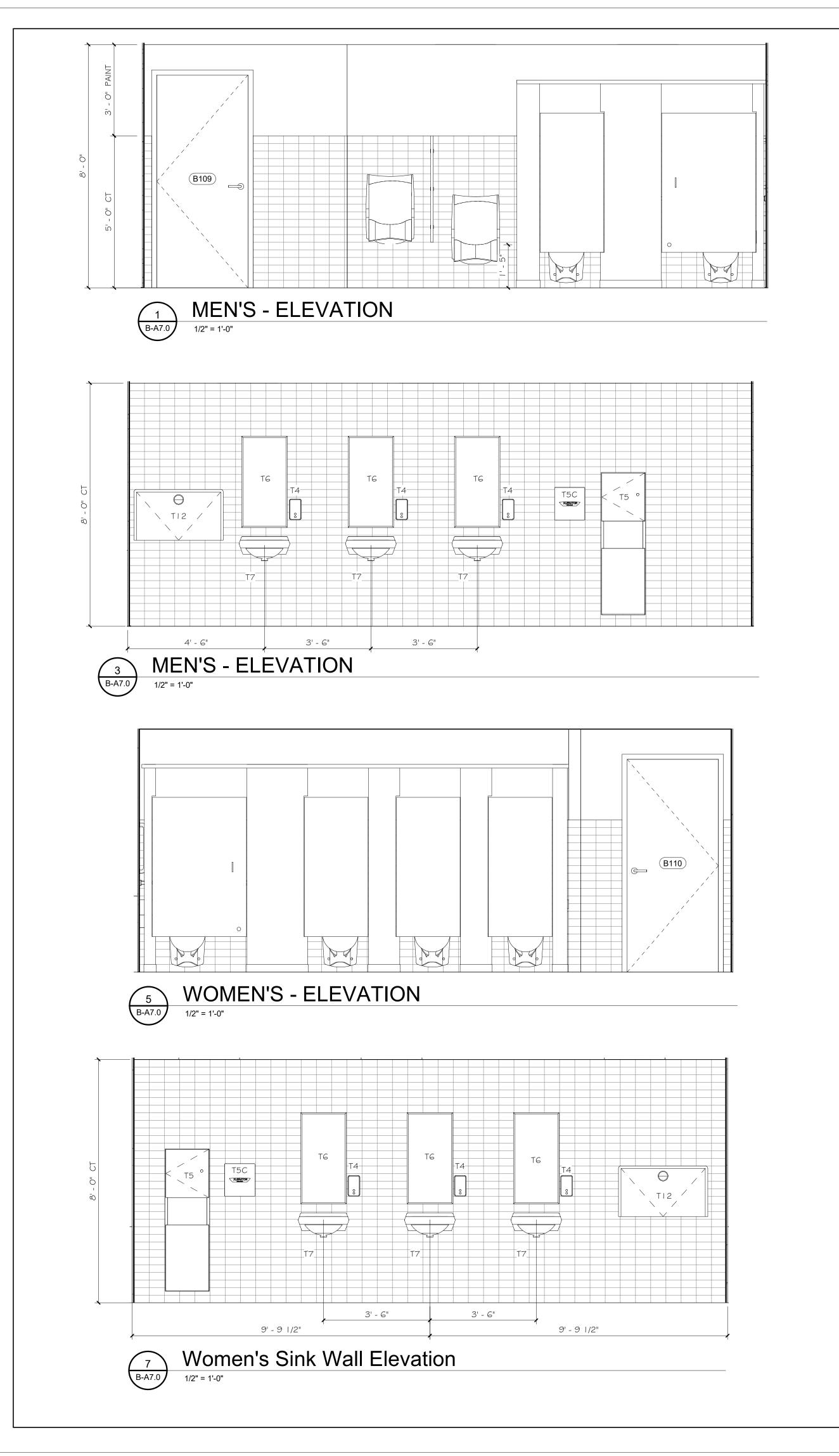
- . ANY DOOR (UNLESS EXISTING) FOUND ON OTHER DRAWINGS BUT NOT INDICATED ON THE DOOR SCHEDULE SHALL BE CONSIDERED MINIMALLY AS A 3'-O" x 7'-O" DOOR HAVING A CLEAR COATED SOLID WOOD SLAB WITH A PAINTED HOLLOW METAL FRAME. NOTIFY ARCHITECT OF MISSING DOOR PRIOR TO ORDERING DOOR OR COMMENCING WORK.
- 2. ALL DOOR FRAME ASSEMBLIES ARE TO BE MINIMUM LABEL NOTED FOR ITS DOOR.
- 3. ALL DOOR GLAZING IS TO BE MINIMUM LABEL NOTED FOR ITS DOOR.
- 4. ALL HM DOORS AND FRAMES ARE TO BE PAINTED.
- 5. FIRE RATINGS AND EXIT DEVICES SHALL BE PROVIDED PER THE APPLICABLE CODE.
- 6. ALL WINDOW FLASHING MATERIALS AND METHODS SHALL CONFORM TO THE REQUIREMENTS OF TH ENERGY & ENVIRONMENTAL BUILDING ASSOCIATIONS GUIDELINES FOR WATER MANAGEMENT AROUND WINDOW OPENINGS AS WELL AS SPECIFICATIONS.
- 7. SPACES BETWEEN WINDOW/DOOR FRAMES AND ROUGH OPENINGS ARE TO BE FILLED WITH LOW EXPANSION FOAM UNLESS WINDOW/ DOOR MANUFACTURER REQUIREMENT STATES OTHERWISE.
- 8. PROVIDE BLOCKING (FIRE-TREATED WHERE REQUIRED) AS REQUIRED FOR THE INSTALLATION OF ALL DOOR TRIM/CASINGS, SILLS, ETC.

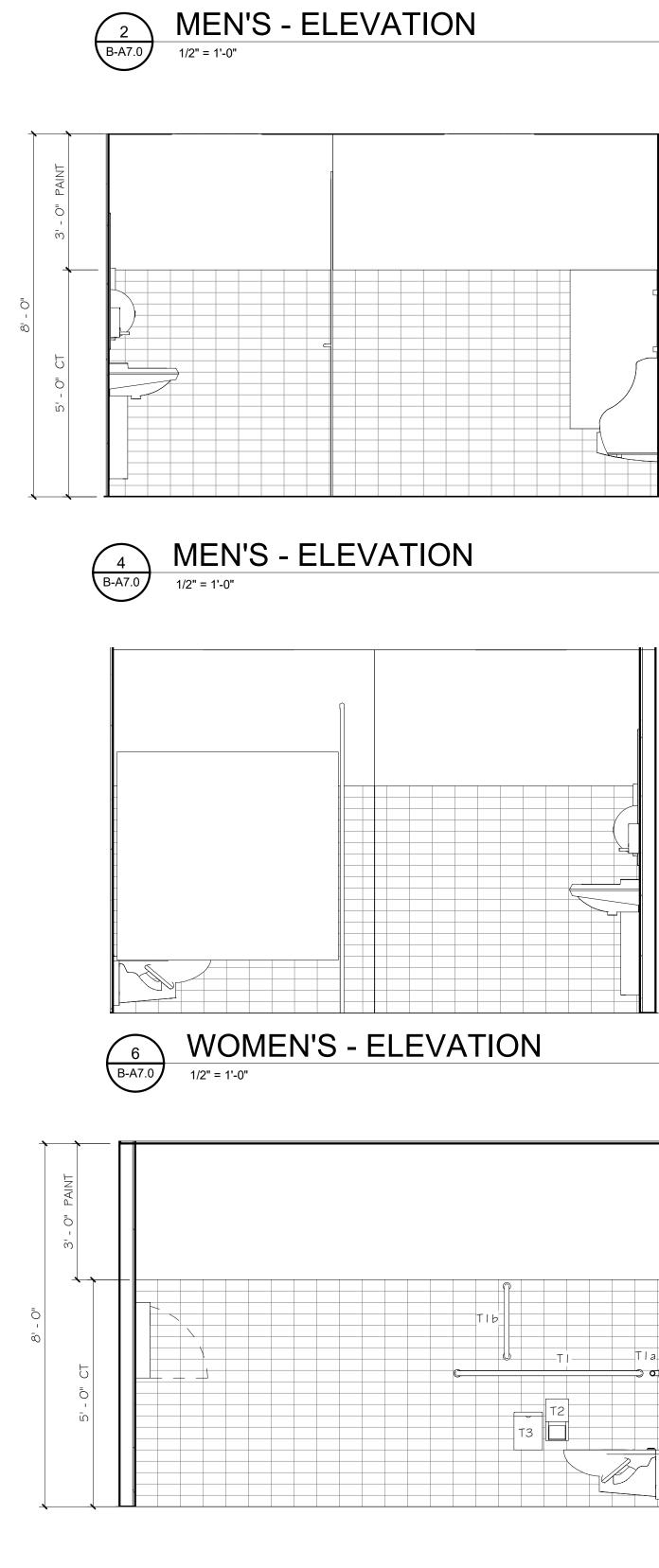


Code	Williams Park Zoo Education Center & Pavilion	I	Materials, Color and Finish Schedule		6/14/2023
Code					
	Type of Material	Manufacturer	Style	Color	Pattern/ Model Number
WALL					
РТ1 Т2	FIELD PAINT	Benjamin Moore	Scuff-X, high traffic environments, Matt Finish	OC-27, Balboa Mist	n/a
РТ2 РТ3	FIELD PAINT FIELD PAINT	Benjamin Moore Benjamin Moore	Scuff-X, high traffic environments, Matt Finish Scuff-X, high traffic environments, Matt Finish	OC-22, Calm OC-88 Indian White	n/a n/a
РТ4 РТ5	FIELD PAINT FIELD PAINT	Benjamin Moore Benjamin Moore	Scuff-X, high traffic environments, Matt Finish Scuff-X, high traffic environments, Matt Finish	To be determined To be determined	n/a n/a
РТ6 РТ7	WINDOW/ DOOR TRIM WINDOW/ DOOR TRIM	Benjamin Moore Benjamin Moore	Scuff-X Semi Gloss 487 Scuff-X Semi Gloss 487	To be determined AF-395 Meditation	n/a n/a
PT8 PT9	Specialty Durable, Metal Railing Paint, Gloss Specialty Durable, Metal Railing Paint, Gloss	Benjamin Moore Benjamin Moore	Scuff-X Gloss 487	2144-10, Guacamole 2144-10, Guacamole	Pipe Guard Rail and Pipe Handrai Steel Pickets
PT10	SPECIALTY FLAT CEILING WASHABLE WHITE	Benjamin Moore	Waterborne Ceiling Paint 508	CEILING WHITE	For GWB ceilings throughout.
РТ11 РТ12	WINDOW/ DOOR TRIM FIELD PAINT	Benjamin Moore Benjamin Moore	Scuff-X Semi Gloss 487 Scuff-X, high traffic environments, Matt Finish	AF-720 Sparrow To be determined	
PT13 PT14	FIELD PAINT WINDOW/ DOOR TRIM	Benjamin Moore Benjamin Moore	Scuff-X, high traffic environments, Matt Finish Scuff-X Semi Gloss 487	To be determined To be determined	
.T1	Glazed Porcelain Wall Tile, multi-shaped	Crossville	Cursive	#CRV05, Old Denim	#CRV05
T2	Glazed Porcelain Wall Tile, multi-shaped	Crossville	Cursive	#CRV01, Ghost	#CRV01
.T3 .T4	Glazed Porcelain Wall Tile, multi-shaped Glazed Porcelain Wall Tile, multi-shaped	Crossville Crossville	Cursive Cursive	Rose Gold Goldenrod	#CRV0 #CRV0
.T6 .T7	Glazed Porcelain Back Splash Wall Tile Glazed Porcelain Wall Tile	To be determined To be determined			
OWP	Durable wall panelling system. See Specifications. Cal. Prop 65 free				
62	Wall Grout, see specifications.	Laticrete, Spectra Lock		Slate Grey	#91
WP1	Felt Acoustic wall Panels, 4' x 9' x 1/2"	MDC Zintra	Zintra	Olive Sheet	ZTR4724
WP2 WP3	Felt Acoustic wall Panels, 4' x 9' x 1/2" Felt Acoustic wall Panels, 4' x 9' x 1/2"	MDC Zintra MDC Zintra	Zintra Zintra	Cadet Sheet Fossil Sheet	ZTR4721 ZTR4720
WP4 WP5	Felt Acoustic wall Panels, 4' x 9' x 1/2" Felt Acoustic wall Panels, 4' x 9' x 1/2"	MDC Zintra MDC Zintra	Zintra Zintra	Ecru Linen Sheet	ZTR4707 ZTR4709
	Rubber Wall Cove Base			Creek Bed	#640
51 52	Porcelain Tile Cove Base, through body, high density	Roppe Crossville	Cove Base 6 x 12 Cove Base, Basalt	MAFIC	AV295
3 4	Rubber Wall Cove Base Glazed Porcelain wall Tile Cove Base,	Roppe Crossville	Cove Base 6 x 12 Cove Base	Dolphin Ghost	#129 #CRV01
OGP1	Double sided configuration consisting of a color or custom image graphic interlayer between two transparent lites of glass. Digital Glass Panel	Forms and Surfaces	VlviGraphix Spectra	Custom Imagery	Pearlex Finish, VGS3417-1210-G
	Single sided configuration consisting of a color or custom image graphic	Surra Surra SurrasCa		Per 1	Pearley Einich VCS2417 4240 C
OGP2	interlayer between two transparent lites of glass. Digital Glass Panel	Forms and Surfaces	VlviGraphix Spectra	Custom Imagery	Pearlex Finish, VGS3417-1210-G
LOOR					
	Porcelain Tile, through body, high density	Crossville	12 x 24, Basalt	MAFIC	AV294
ORT2	Porcelain Tile, through body, high density	Crossville	12 x 12, Basalt	MAFIC	AV295
ORT3	Porcelain Tile, through body, high density	Crossville	6 x 6, Basalt	MAFIC	
i1	Floor Grout	Laticrete	See Specifications	#91 Slate Gray	
C1 C2	Stained Concrete, Buffed finish Stained Concrete, Buffed finish			Stain color 1 Stain color 2	
6C3 6C4	Stained Concrete, Buffed finish Stained Concrete, Buffed finish			Stain color 3 Stain color 4	
6C5	Stained Concrete, Buffed finish			Stain color 5	
5C6 5C7	Stained Concrete, Buffed finish Stained Concrete, Buffed finish			Stain color 6 Stain color 7	
5C8 5C9	Stained Concrete, Buffed finish Sealed Concrete			Stain color 8	
SC10	Slip Resistent, Polished Concrete				
ONC	UNFINISHED CONCRETE, EXPOSED SLAB				
RUB1	Rubber Tile	Roppe		# R663 Aged Fern	Textured design
RUB2 RUB3	Rubber Tile Rubber Tile	Roppe Roppe		# R122 Natural # R638 Cadet	Textured design Textured design
UB4	Rubber Tile	Roppe	Renew, #993 Textured Design	# R639 Beigewood	Textured design
M1	Entry Mat	Matter Surface	Diagonal Tile	Black Walnut	Walk off matt in entries
IN1	LinoleumMarmoleum Floor Tile	FORBO Flooring Systems	Fresco	Oat	#3890
IN2 IN3	LinoleumMarmoleum Floor Tile LinoleumMarmoleum Floor Tile	FORBO Flooring Systems FORBO Flooring Systems	Cirrus Piano	Rosemary Green Periwinkle	#3355 #3642
IN4	LinoleumMarmoleum Floor Tile	FORBO Flooring Systems	Vivace		
				Granada	#3405
TAIRS				Granada	
	Rubber Treads and Risers, textured finish		Marhelized		#3405
UB5	Rubber Treads and Risers, textured finish	Roppe	Marbelized	Granada Gecko	
UB5			Marbelized		#3405
CEILING	S	Roppe Armstrong Commercial		Gecko	#3405
EILING	S Tectum acoustic ceiling panels	Roppe Armstrong Commercial Ceilings Armstrong Commercial	Tectum	Gecko White	#3405
EILING	S Tectum acoustic ceiling panels Tectum acoustic ceiling panels inlaid in grid	Roppe Armstrong Commercial Ceilings Armstrong Commercial Ceilings	Tectum Tectum	Gecko	#3405
EILING	S Tectum acoustic ceiling panels	Roppe Armstrong Commercial Ceilings Armstrong Commercial	Tectum Tectum Armstrong Techzone with Calla Square lay-in field	Gecko White	#3405
EILING	S Tectum acoustic ceiling panels Tectum acoustic ceiling panels inlaid in grid High performance sustainable Ceiling System with 15/16" Square Layin	Roppe Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial	Tectum Tectum Armstrong Techzone with Calla Square lay-in field	Gecko White White	#3405 M646
RUB5 CEILING TECT1 TECT2	S Tectum acoustic ceiling panels Tectum acoustic ceiling panels inlaid in grid High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 24" panels with integrated Technical Services	Roppe Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings	Tectum Tectum Armstrong Techzone with Calla Square lay-in field panels, smooth texture.	Gecko White White	#3405 M646
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CEILING CEILING CEILING CET1 CECT2 ACT3 ACT4 ACT3 ACT4 ACT4 ACT4 ACT4 ACT4 ACT4 ACT4 ACT4	S Tectum acoustic ceiling panels Tectum acoustic ceiling panels inlaid in grid High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 24" panels with integrated Technical Services High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 48" panels with integrated Technical Services High performance sustainable Ceiling System with 9/16" Square Layin suspension system 24" x 24" panels with integrated Technical Services Washable Acoustic 24" x 24" panels with integrated Technical Services Washable Acoustic 24" x 24" Tile Premium Plastic Laminate Premium Plastic Laminate	Roppe Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings	Tectum Tectum Armstrong Techzone with Calla Square lay-in field panels, smooth texture. Armstrong Techzone with Calla Square lay-in field panels, smooth texture. Armstrong Techzone with Calla tegular panels, smooth texture. Standard Laminate Standard Laminate Traceless Traceless	Gecko Gecko White White White White White White Nhite Natural Tigris, ##4669-60 Green Tigris, #4667-60	#3405 M646 8807 8807 Matte Finish Matte Finish
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CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILIN	S Tectum acoustic ceiling panels Tectum acoustic ceiling panels inlaid in grid High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 24" panels with integrated Technical Services High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 48" panels with integrated Technical Services High performance sustainable Ceiling System with 9/16" Square Layin suspension system 24" x 48" panels with integrated Technical Services High performance sustainable Ceiling System with 9/16" Tegular suspension system 24" x 24" panels with integrated Technical Services Washable Acoustic 24" x 24" Tile k Premium Plastic Laminate Traceless, Fingerprint resistent Plastic Laminate	Roppe Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings Armstrong Commercial Ceilings	Tectum Tectum Tectum Armstrong Techzone with Calla Square lay-in field panels, smooth texture. Armstrong Techzone with Calla Square lay-in field panels, smooth texture. Armstrong Techzone with Calla tegular panels, smooth texture. Standard Laminate Standard Laminate Traceless Traceless Traceless Traceless Traceless Traceless	Gecko	#3405 M646 8807 8807 8807
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EILING ECT1 ECT2 CT1 CT2 CT1 CT2 CT3 CT3 CT4 CT4 CT4 CT4 CT4 CT4 CT4 CT4 CT4 CT4	S Tectum acoustic ceiling panels Tectum acoustic ceiling panels inlaid in grid High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 24" panels with integrated Technical Services High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 48" panels with integrated Technical Services High performance sustainable Ceiling System with 9/16" Tegular suspension system 24" x 24" panels with integrated Technical Services Washable Acoustic 24" x 24" panels with integrated Technical Services Washable Acoustic 24" x 24" Tile k Premium Plastic Laminate Traceless, Fingerprint resistent Plastic Laminate Solid Surface, Porcelain Slab Solid Surface, Porcelain Slab	Roppe Roppe Armstrong Commercial Ceilings Armstrong Commer	Tectum Tectum Tectum Armstrong Techzone with Calla Square lay-in field panels, smooth texture. Armstrong Techzone with Calla Square lay-in field panels, smooth texture. Armstrong Techzone with Calla tegular panels, smooth texture. Standard Laminate Standard Laminate Traceless Traceless Traceless Traceless Traceless	Gecko Gecko Gecko Mhite White White White White White White Number White White Number White Number Silk Velvet, 15513 Silate Velvet, 15507 To be determined To be determined Suspense unpolished	#3405 M646 8807 8807 8807
CEILING ECT1 ECT2 ACT3 ACT3 ACT4 ACT4 ACT4 ACT4 ACT4 ACT4 ACT4 ACT4	S Tectum acoustic ceiling panels Tectum acoustic ceiling panels inlaid in grid High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 24" panels with integrated Technical Services High performance sustainable Ceiling System with 15/16" Square Layin suspension system 24" x 48" panels with integrated Technical Services High performance sustainable Ceiling System with 9/16" Tegular suspension system 24" x 24" panels with integrated Technical Services Washable Acoustic 24" x 24" panels with integrated Technical Services Washable Acoustic 24" x 24" Tile k Premium Plastic Laminate Traceless, Fingerprint resistent Plastic Laminate Solid Surface, Porcelain Slab Solid Surface, Porcelain Slab	Roppe Roppe Armstrong Commercial Ceilings Armstrong Commer	Tectum Tectum Tectum Armstrong Techzone with Calla Square lay-in field panels, smooth texture. Armstrong Techzone with Calla Square lay-in field panels, smooth texture. Armstrong Techzone with Calla tegular panels, smooth texture. Standard Laminate Standard Laminate Traceless Traceless Traceless Traceless Traceless	Gecko Gecko Gecko Mhite White White White White White White Number White White Number White Number Silk Velvet, 15513 Silate Velvet, 15507 To be determined To be determined Suspense unpolished	#3405 M646 8807 8807 8807

			WALLS				BASE			
ROOM #	ROOM NAME	NORTH	SOUTH	EAST	WEST	FLOOR	MATERIAL	HEIGHT	CEILING	COMMENTS
3100	EVENT SPACE	PTI2, PTI4,	pt12	PT12, PT14	PT12, PT14,	SCIO	Fiber Cement/PT	6"	OTS	
3101	STORAGE	PT12, PT14,	pt12	PT12, PT14	PT12, PT14,	SC9	Rubber Base	4"	ACTI	
3102	MECHANICAL	PTI2, PTI4,	pt12	PT12, PT14	PT12, PT14,	SC9	Rubber Base	4"	OTS	
3102a	ELEC	PTI2, PTI4,	pt12	PT12, PT14	PT12, PT14,	SC9	Rubber Base	4"	OTS	
B103	KITCHEN	FRP	FRP	FRP	FRP	QT	QT	6"	ACT4	
3104	JAN	FRP	FRP	FRP	FRP	SC9	Rubber Base	4"	ACTI	
3105	CORRIDOR	PT12, PT14,	pt12	PT12, PT14	PT12, PT14,	SC10	Fiber Cement/PT	6"	ACTI	
3106	STORAGE	PT12, PT14,	pt12	PT12, PT14	PT12, PT14,	SC9	Rubber Base	4"	ACTI	
3107	MECHANICAL	PT12, PT14,	pt12	PT12, PT14	PT12, PT14,	SC9	Rubber Base	4"	OTS	
3108	CORRIDOR	PT12, PT14,	pt12	PT12, PT14	PT12, PT14,	SCIO	Fiber Cement/PT	6"	ACTI	
3109	MEN'S	PT13, PT14,	PT13,14,CT6	PT12, PT14, CT6	PT12, PT14,	SCIO	Ceramic base		ACTI	
BIIO	WOMEN'S	PT13, PT14,	PT13.14.CT6	PT12, PT14, CT6	PTI/CTI	SCIO	Ceramic base		ACTI	

Societation         ARCHITECTS           Saccocia & Saccocia & Saccocia bes, lnc.         Bus Park Avenue Cranston, Rhode Island 2010         El 401.942.7970 fax 401.942.7975           Nas Park Avenue Cranston, Rhode Island 2010         El 401.942.7970 fax 401.942.7975           Consultant         Farst Avenue Consultant
 Education Center & Pavilion
Revision   Number
ISSUED FOR CONSTRUCTION JUNE 15, 2023 SHEET TITLE MATERIAL & FINISH SCHEDULES
DRAWN BY: JMP JOB NUMBER: 18050 CHECKED BY: MS DATE: 6-15-2023 <b>B-A61</b>





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0" CT

 8
 WOMEN'S - ELEVATION

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

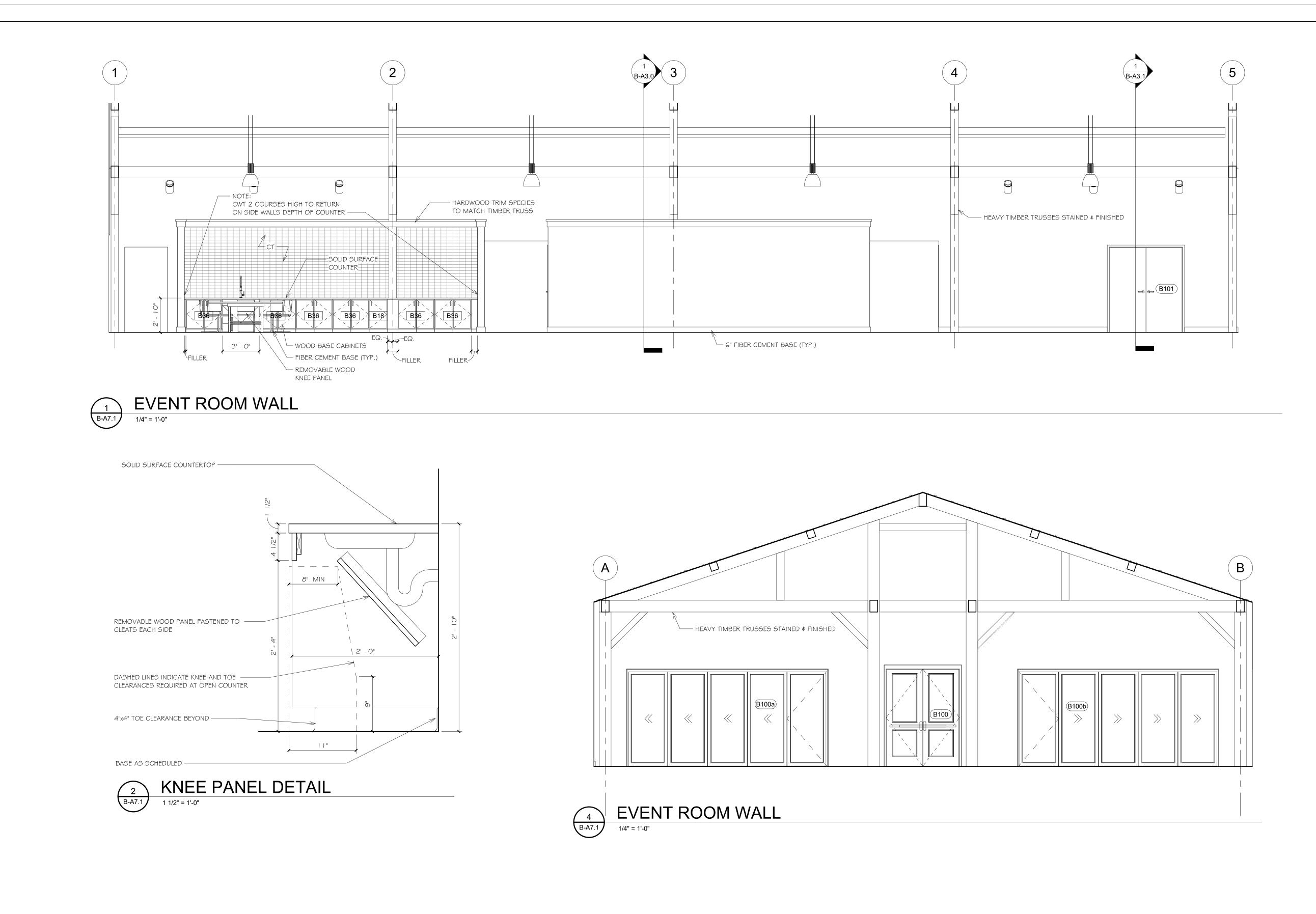
NOTES: I. ALL EXPOSED SIDE AND BOTTOM CASEWORK PANELS ARE TO BE OF FINISH QUALITY.

2. PROVIDE FINISHED FILLER PANELS/STRIPS AT TOPS/BOTTOMS/SIDES AS REQUIRED TO COMPLETE EACH RUN OF UPPER AND LOWER CASEWORK.

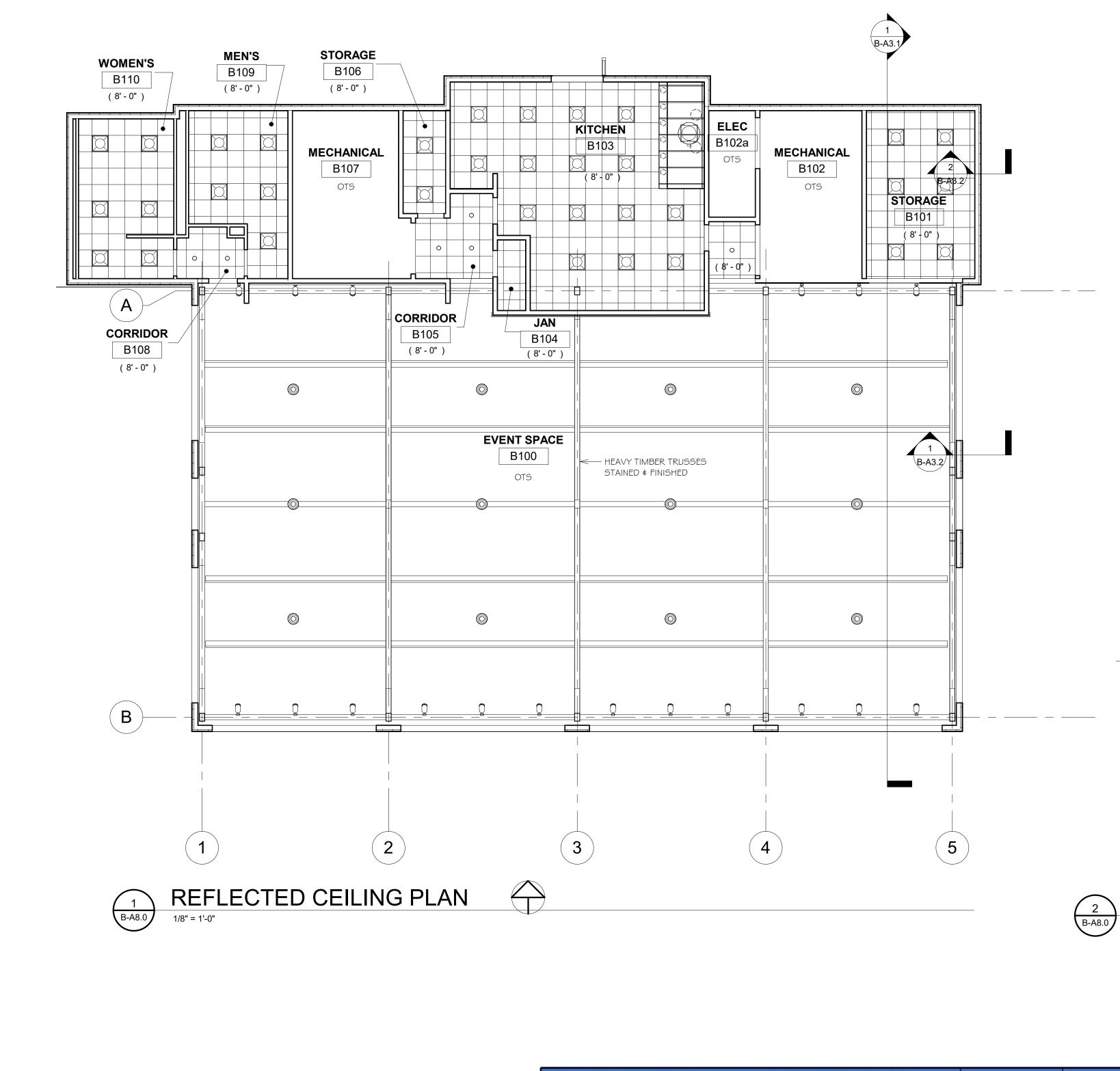
3. PROVIDE BLOCKING (FIRE-TREATED WHERE REQUIRED) FOR ALL CASEWORK, MILLWORK, STANDING & RUNNING TRIM, FIXTURES, EQUIPMENT, SHELVING, BRACKETS, RESTROOM ACCESSORIES AND ALL OTHER INCIDENTAL ITEMS AS REQUIRED FOR THEIR INSTALLATION.

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

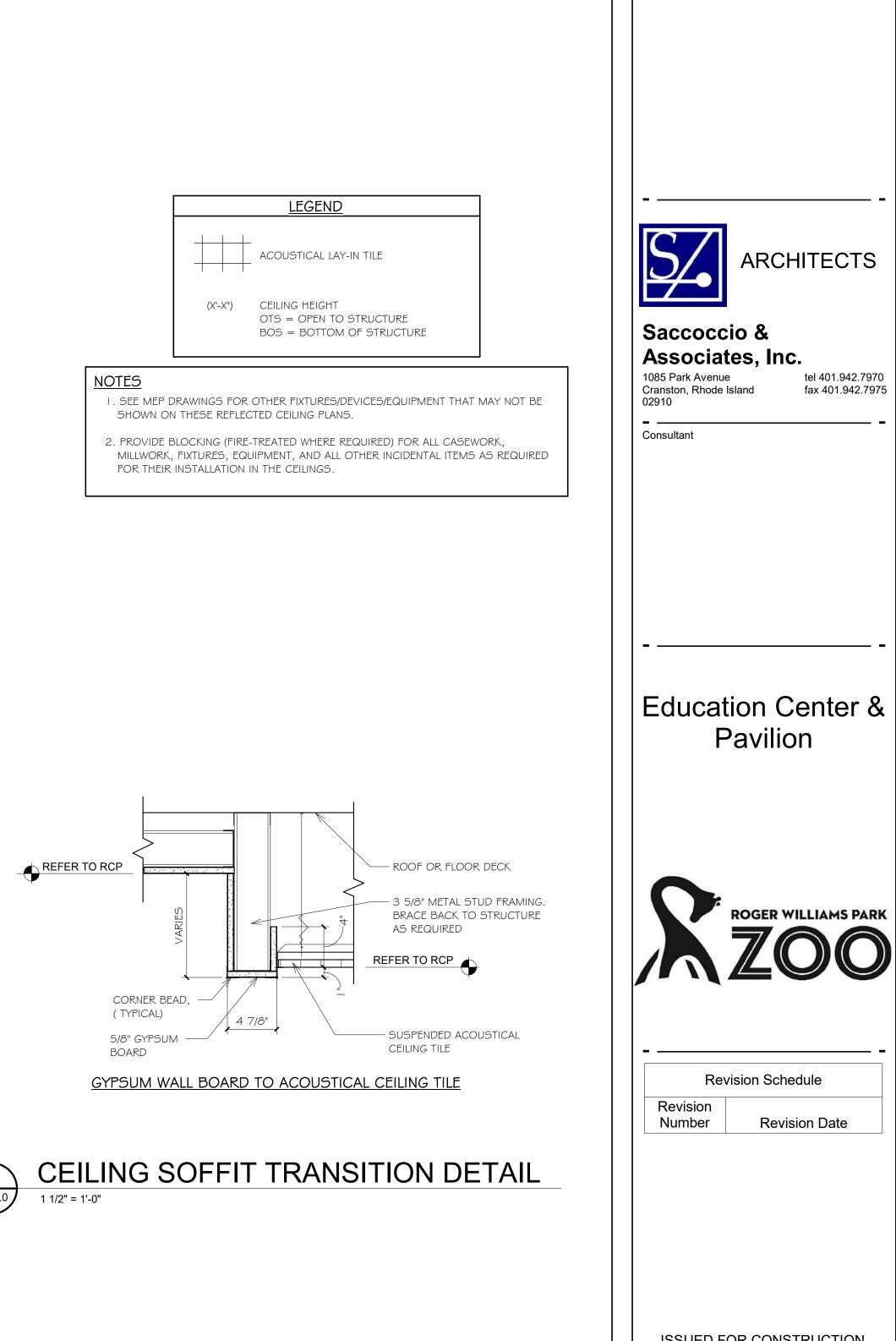
ARCHITECTS Saccoccio &
Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910 Consultant
Education Center & Pavilion
ROGER WILLIAMS PARK
<b>-</b>
Revision Schedule Revision Number Revision Date
ISSUED FOR CONSTRUCTION JUNE 15, 2023
SHEET TITLE
INTERIOR ELEVATIONS
DRAWN BY: JMP JOB NUMBER: 18050 CHECKED BY: MS DATE: 6-15-2023
B-A7.0
SHEET: OF:



ARCHITECTS Saccoccio &
Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910 Consultant
Education Center & Pavilion
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B-A7.1
SHEET: OF:



Rodger W	Villiams Zoo Education Center and Pavilion Lighting Schedule				6/14/2023
LIGHTIN	IG & CEILING SCHEDULE				
CODE	DESCRIPTION	MANUFACTURE	FSTYLE	COLOR	MODEL
RSPOT1	Recessed accent light	DeltaLight	DeltaLight	White	Spy 39 ST
RSPOT 2	Recessed accent light BeveLED Mini	USAI Lighting	B3RDF round , trimmed	White	B3RA 3" Round Adjustable
SMSPOT	Surface Mounted adjustable LED Flood Light	DesignPlan	Small, adjustable surface mounted Flood light	White	Krill 3.0
Track1	Pendant cable suspended track System	Lighting Services Inc.	ControlTrack System, CONTROLTrack seamless surface Track with cable pendant mounting system	White	
PHF1	Pendant Hung Linear Fixture _ up, down lighting capabilities. 48 " length , Adjustable suspension system, square profile	Axis Lighting	Beam 2 Square, compact 2.5" square form	White	CCHISL70090
PHF2	Pendant Hung Linear Fixture _ up, down lighting capabilities, 14', Adjustable suspension system	Axis Lighting	Beam 2 Square, compact 2.5" square form	White	
PHF3	Pendant Hung FixtureArchitectural LED High and Low Bay Pendant, Spun Matte Anodized aluminum.	Alcon Lighting	Spun Matte Anodized Aluminum Housing	Anodized	15203AN40KEM
RL1	Recessed High performance LED Fixture, 24" x 24"	Axis Lighting	Aura	White	
RL2	Recessed High performance LED fixture, 2" x 6'	Axis Lighting	BEAM		B2SQRLED
RL4	Recessed High performance LED Fixture, 24" x 48"	Axis Lighting			
COVE1	Indirect Light Cove LED Luminarie_ High efficiency Fixture	Axis Lighting	Cove PERFEKT, Consult Manufacturer to determine the best fixture length combination to fill the cove opening.	White	
EXSPOT1	Exterior flood light for illuminating large buildings, 7 variable light distributions	ERCO	Exterior Pole Mounted Luminaire	Weather Resistent Housing	Kona 94
EXSPOT2	Exterior flood light for illuminating signage, 7 variable light distributions	ERCO	Exterior Pole Mounted Luminaire	Weather Resistent Housing	to be determined



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Revision Number		Revision Da	te
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SHEET:		OF:	

# 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" SNOW CRITERIA: GROUND SNOW LOAD (Pg): 30 PSF FLAT ROOF SNOW LOAD (Pf): 30 PSF SNOW LOAD IMPORTANCE FACTOR (Is): 1.10 SNOW EXPOSURE FACTOR (Ce): 1.0 THERMAL FACTOR (Ct): 1.0 ROOF DEAD LOAD: 22 PSF

## SEISMIC FACTORS: GROUND ACCELERATIONS: Ss=.199g, S1=.055g DESIGN ACCELERATIONS: Sds=.319g, Sd1=.154g SEISMIC IMPORTANCE FACTOR (Ie): 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 SHÈAR RÉSISTANCE

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

WIND CRITERIA: ULTIMATE WIND SPEED (Vult): 134 mph NOMINAL WIND SPEED (Vasd): 104 mph WIND EXPOSURE FACTOR: B INTERNAL PRESSURE COEFF. GCPI: ±0.18 (ENCLOSED BLDG.)

COMP	ONENTS AND CLA	ADDING PRESSUF	RES (METHOD 1 - 1	104mph, GABLE R	OOFS)
LOCATION	<u>10sf</u>	<u>20sf</u>	<u>50sf</u>	<u>100sf</u>	<u>500sf</u>
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
COMPONEN	TS AND CLADDING	PRESSURES (MET	THOD 1-104mph, SC	OFFIT OVERHANGS	CANOPIES)
LOCATION	<u>10sf</u>	<u>20sf</u>	<u>50sf</u>	<u>100sf</u>	<u>500sf</u>
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

COMPONENTS AND CLADDING PRESSURES (METHOD 1 - 104mph, WALLS)									
LOCATION	<u>10sf</u>	<u>20sf</u>	<u>50sf</u>	<u>100sf</u>	<u>500sf</u>				
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				

		COMPONENTS AND CLADDING PRESSURES (METHOD 1 -	- 104mph, MONOSLOPE ROOFS)
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LOCATION	<u>10sf</u>	<u>20sf</u>	<u>50sf</u>	<u>100sf</u>	<u>500sf</u>
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 PAVILION

# CODE INFORMATION AND DESIGN LOADS (EXCEPT AS NOTED):

## FOUNDATION CRITERIA:

FROST DEPTH:..... SAFE SOIL BEARING CAPACITY: .......3000 PSF SNOW CRITERIA: GROUND SNOW LOAD (Pg): 30 PSF FLAT ROOF SNOW LOAD (Pf): 30 PSF SNOW LOAD IMPORTANCE FACTOR (Is): 1.10 SNOW EXPOSURE FACTOR (Ce): 1.0 THERMAL FACTOR (Ct): 1.0 ROOF DEAD LOAD: 22 PSF

# OCCUPANCY CATEGORY: II SEISMIC SITE CLASS: E

<u>SEISMIC\_FACTORS:</u> GROUND\_ACCELERATIONS: Ss=.199g, S1=.055g DESIGN ACCELERATIONS: Sds=.319g, Sd1=.154g SEISMIC IMPORTANCE FACTOR (Ie): 1.0 SEISMIC DESIGN CATEGORY: C 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. Cs = 0.049

WIND CRITERIA: ULTIMATE WIND SPEED (Vult): 125 mph NOMINAL WIND SPEED (Vasd): 97 mph WIND EXPOSURE FACTOR: B INTERNAL PRESSURE COEFF. GCPI: ±0.18 (ENCLOSED BLDG.)

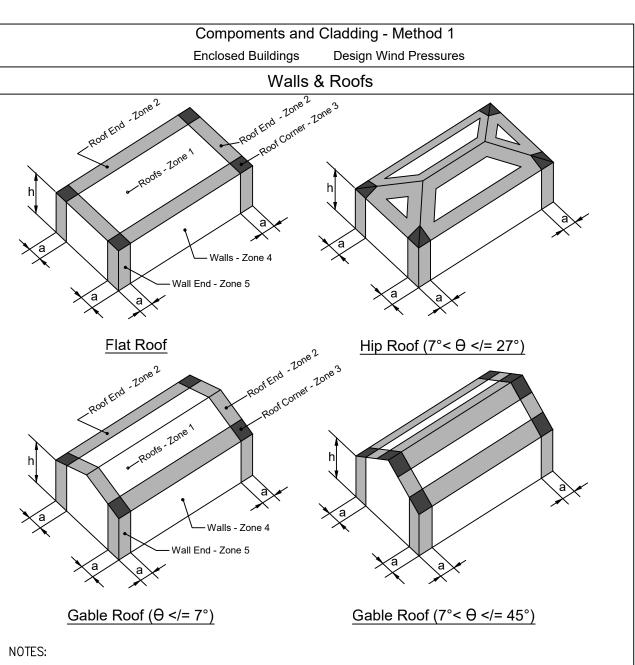
COMPONENTS AND CLADDING PRESSURES (METHOD 1 - 97mph, GABLE ROOFS)					
LOCATION	<u>10sf</u>	<u>20sf</u>	<u>50sf</u>	<u>100sf</u>	<u>500sf</u>
ZONE 1	-28.27 PSF	-23.98 PSF	-18.29 PSF	-13.99 PSF	-13.99 PSF
ZONE 2e	-28.27 PSF	-23.98 PSF	-18.29 PSF	-13.99 PSF	-13.99 PSF
ZONE 2r	-28.27 PSF	-23.98 PSF	-18.29 PSF	-13.99 PSF	-13.99 PSF
ZONE 2n	-31.13 PSF	-27.83 PSF	-23.46 PSF	-20.15 PSF	-16.85 PSF
ZONE 3r	-31.13 PSF	-27.83 PSF	-23.46 PSF	-20.15 PSF	-16.85 PSF
ZONE 3e	-48.27 PSF	-33.83 PSF	-28.08 PSF	-23.74 PSF	-16.85 PSF
COMPONEN	ITS AND CLADDING	G PRESSURES (ME	THOD 1-97mph, SO	FFIT OVERHANGS	/CANOPIES)
LOCATION	<u>10sf</u>	<u>20sf</u>	<u>50sf</u>	<u>100sf</u>	<u>500sf</u>
ZONE 1	-39.70 PSF	-35.40 PSF	-29.72 PSF	-25.42 PSF	-25.42 PSF
ZONE 2e	-39.70 PSF	-35.40 PSF	-29.72 PSF	-25.42 PSF	-25.42 PSF
ZONE 2r	-39.70 PSF	-35.40 PSF	-29.72 PSF	-25.42 PSF	-25.42 PSF
ZONE 2n	-42.55 PSF	-39.25 PSF	-34.88 PSF	-31.58 PSF	-28.27 PSF
ZONE 3r	-42.55 PSF	-39.25 PSF	-34.88 PSF	-31.58 PSF	-28.27 PSF
ZONE 3e	-49.60 PSF	-45.25 PSF	-39.51 PSF	-35.16 PSF	-40.70 PSF

COMPONENTS AND CLADDING PRESSURES (METHOD 1 - 97 mph, WALLS)					
LOCATION	<u>10sf</u>	<u>20sf</u>	<u>50sf</u>	<u>100sf</u>	<u>500sf</u>
ZONE 4	-18.28 PSF	-17.52 PSF	-16.52 PSF	-15.76 PSF	-13.99 PSF
ZONE 5	-22.56 PSF	-21.04 PSF	-19.04 PSF	-17.52 PSF	-13.99 PSF

COMPONENTS AND CLADDING PRESSURES (METHOD 1 - 97mph, MONOSLOPE ROOFS)					
LOCATION	<u>10sf</u>	<u>20sf</u>	50sf	<u>100sf</u>	<u>500sf</u>
ZONE 1	-21.13 PSF	-20.27 PSF	-19.14 PSF	-18.28 PSF	-18.28 PSF
ZONE 2	-25.42 PSF	-23.70 PSF	-21.43 PSF	-19.71 PSF	-19.71 PSF
ZONE 3	-43.98 PSF	-40.11 PSF	-35.00 PSF	-31.13 PSF	-31.13 PSF

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

.....3'–4"



1. PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE, PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.

2. NOTATION: a = 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3FT (0.9M). h = ROOF HEIGHT, IN FEET (METERS), EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES < 10°.  $\Theta$  = ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES.

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DESIGN LOADS & GENERAL NOTES
DRAWN BY: JMF CAPA JOB #: 222834.20
CHECKED BY: TPG DATE: 6/15/2023
S0.1
SHEET: OF:

# GENERAL NOTES

# FOUNDATION NOTES:

- 1. ALL SOIL CONTAINING ORGANIC OR UNSUITABLE BEARING MATERIAL SHALL BE REMOVED FROM THE BUILDING FOOTPRINT
- 2. 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.
- 3. ROCK SHALL BE EXCAVATED A MINIMUM OF 6" BELOW BOTTOM OF FOOTING ELEVATION AND COVERED WITH A LAYER OF COMPACTED STRUCTURAL FILL.
- 4. A MODIFIED PROCTOR TEST SHALL BE PERFORMED BY A SOILS TESTING LAB ON EACH TYPE OF SOIL TO BE COMPACTED.
- 5. SOIL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY PER ASTM D1557 IN LIFTS NOT TO EXCEED 6" LOOSE DEPTH.
- 6. 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.
- 7. BACKFILL SYMMETRICALLY AGAINST ALL FOUNDATION WALLS IN INCREMENTS NOT TO EXCEED 2 FEET MAXIMUM DIFFERENTIAL. 8. SEE PLUMBING AND ELECTRICAL DRAWINGS FOR UNDER FLOOR SYSTEMS AND SPECIAL GRANULAR FILL MATERIAL
- REQUIREMENTS. 9. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER OR ICE.
- 10. 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:

- 1. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI AT 28 DAYS (U.N.O.)
- 2. ALL CONCRETE WALLS, FOOTINGS AND CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR 4. ALL STEEL TO BE USED FOR DECKING SHALL BE GALVANIZED. ENTRAINING ADMIXTURE. AIR CONTENT SHALL BE 4 1/2% TO 7%.
- 3. ALL CONCRETE SHALL CONTAIN AN APPROVED WATER-REDUCING ADMIXTURE.
- 4. A SET OF FOUR (4) CONCRETE TEST CYLINDERS SHALL BE TAKEN BY AN INDEPENDENT CONCRETE TESTING LAB 6. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. 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.
- 5. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- 6. A MIX DESIGN AND ACI 214 STRENGTH TEST EVALUATION SHALL BE SUBMITTED FOR APPROVAL FOR EACH TYPE OF CONCRETE.
- 7. REINFORCING BARS SHALL BE ASTM A615 GRADE 60 (U.N.O.).
- 8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION, SHOWING REINFORCING DETAILS, STEEL SIZES, SPACING AND PLACEMENT OF REINFORCING.
- 9. ALL REINFORCING BAR SPLICES SHALL CONFORM TO REQUIREMENTS OF ACI 318-14, BUT IN NO CASE SHALL THEY BE LESS THAN 2'-0".
- 10. DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCING.
- 11. 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.
- 12. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064, Fy = 60 KSI.
- 13. ALL WELDED WIRE FABRIC SHALL BE LAPPED ONE (1) FULL MESH PANEL AT SIDES AND ENDS AND BE SECURELY WIRED TOGETHER.
- 14. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS AND CUT OUTS.
- 15. COORDINATE ALL FOUNDATION PENETRATIONS WITH ARCHITECT, PLUMBING, MECHANICAL, ELECTRICAL CONTRACTORS AND LOCAL AGENCIES.

STRUCTURAL STEEL NOTES:

- 1. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND CODES, LATEST
- 2. ALL WIDE FLANGE SECTION STRUCTURAL BEAMS (W) SHALL BE ASTM A992, Fy = 50 KSI. PLATES, ANGLES, AND CHANNELS SHALL BE ASTM A36, Fy = 36 KSI. ALL RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A500 GRADE C, Fy = 50 KSI. ALL PIPES SHALL BE ASTM A53 GRADE B, Fy = 35 KSI.
- 3. ALL ANCHOR BOLTS AND THREADED RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554.
- 4. ALL BOLTED CONNECTIONS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS."
- 5. ALL WELDING ELECTRODES SHALL BE E70XX.
- 6. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO THE AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION," LATEST EDITION.
- 7. THE FABRICATOR SHALL FURNISH SHOP AND ERECTION DRAWINGS AND OBTAIN APPROVAL PRIOR TO FABRICATING ANY STRUCTURAL STEEL. FABRICATOR TO PROVIDE STEEL CONNECTION DETAILS AND CALCULATIONS PREPARED AND STAMPED BY A P.E. REGISTERED IN THE STATE OF RHODE ISLAND TO WITHSTAND THE LOADS PROVIDED IN THE DRAWINGS (CODE OF STANDARD PRACTICE, 3.1.1(3)). DEMANDS PROVIDED WERE DETERMINED USING ASD LOAD COMBINATIONS.
- 8. FURTHER EXPLANATION OF THE CODE OF STANDARD PRACTICE SECTION REFERENCED IN NOTE 7 STATES THE ENGINEER IN RESPONSIBLE CHARGE OF DESIGNING CONNECTIONS SHALL REVIEW AND CONFIRM IN WRITING THAT THE SHOP AND ERECTION DRAWINGS PROPERLY INCORPORATE THE CONNECTION DESIGNS, AND THE FABRICATOR SHALL PROVIDE A CLEAR MEANS BY WHICH THE CONNECTION INFORMATION IS REFERENCED TO THE RELATED CONNECTIONS ON THE SHOP AND ERECTION DRAWINGS.
- 9. CONNECTIONS SHALL BE DESIGNED FOR THE DEMANDS SHOWN ON THE CONTRACT DRAWINGS. WHERE DEMANDS ARE NOT PROVIDED, DESIGN FOR THE MINIMUM SHEAR CAPACITY AS REQUIRED BY THE TABLE BELOW:

BEAM SIZES	REQUIRED SHEAR CAPACITY, ASD/LRFD	BEAM SIZES	REQUIRED SHEAR CAPACITY, ASD/LRFD
W8x10-21 W10x12-19	12k/18k W12x65+ W14x61+	60k/90k	
W8x24+ W10x22-30 W12x14-22	24k/36k	W16x50-57           W18x35-55           24k/36k           W21x44-62	00k/ 90k
W10x33-45 W12x26-40 W14x22-38	40 36k/54k W21x68-73	80k/120k	
W10x49+ W12x45-58 W14x43-53 W16x26-45	48k/72k	W18x76+ W24x76-94 W27x84-94	100k/150k
WT0X20-45		WXXx100+	SEE PLAN

## STRUCTURAL STEEL NOTES (CONT.):

- APPROVED ALTERNATE.
- TO BE COMPLETED. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS AND STABILITY.
- GALVANIZED STEEL SHALL BE REPAIRED.
- 14. REFER TO ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS OF ALL STEEL.
- 15. CUTS, HOLES, OPENINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS FOR STRUCTURAL STEEL AND SHALL BE MADE IN THE SHOP. CREATION OF HOLES OR CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED EXCEPT BY WRITTEN PERMISSION FROM THE ENGINEER.

## STEEL DECK NOTES:

- 1. ALL STEEL DECKING SHALL CONFORM TO THE STEEL DECK INSTITUTE (SDI) APPLICABLE SPECIFICATIONS AND REQUIREMENTS. INSTALLATION SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS IN ACCORDANCE WITH SDI SPECIFICATIONS.
- 2. STEEL DECK SHALL TYPICALLY BE STORED OFF THE GROUND AT THE JOBSITE, AND BE PROTECTED FROM THE ELEMENTS WITH A WATERPROOF COVERING WHERE REQUIRED.
- 3. DECK SHEETS SHALL BE PLACED IN ACCORDANCE WITH APPROVED ERECTION LAYOUT DRAWINGS SUPPLIED BY THE DECK MANUFACTURER AND IN CONFORMANCE WITH THE MANUFACTURER'S STANDARDS. UNLESS NOTED OTHERWISE, END LAPS SHALL OCCUR OVER SUPPORTS, AND SHALL NOT BE LESS THAN 2" MINIMUM.
- 5. UNLESS NOTED OTHERWISE ON PLANS, THE FOLLOWING DECKING SHALL BE PROVIDED: COMPOSITE FLOOR DECK...... 1 1/2"-20 GA. (TYPE VL BY VULCRAFT OR EQUAL)
- 7. CONNECT DECK TO SUPPORTS USING 5/8" PUDDLE WELDS WITH WELD PATTERN 36/4. WELD AT 6" O.C. AROUND PERIMETER OF ROOF

## MASONRY NOTES:

- MASONRY WALLS ARE DESIGNED IN ACCORDANCE WITH NCMA "SPECIFICATIONS FOR THE CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY," AND TMS BUILDING CODE FOR MASONRY STRUCTURES TMS 402-2016.
- 2. 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.
- 4. 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.
- 5. MASONRY WALLS CONSTRUCTED SHALL YIELD A NET AREA COMPRESSIVE STRENGTH OF F'M = 2200 PSI. 6. ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60 (U.N.O.). PROVIDE TIES FOR ALL VERTICAL BARS,
- LOCATING BARS WITHIN A TOLERANCE OF  $\pm 1/2$  INCH OF THE CENTERLINE.
- 7. 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.
- 8. 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 PREDICATED WITH INSPECTION PROVISIONS REQUIRING QUALIFIED MASONRY INSPECTION TO TAKE PLACE ON A CONTINUOUS BASIS WHENEVER MASONRY IS BEING PLACED.
- 9. 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.
- 10. MASONRY BLOCK CELLS CONTAINING VERTICAL REINFORCING, MASONRY LINTEL BLOCKS, AND MASONRY BOND BEAMS CONTAINING HORIZONTAL REINFORCING SHALL BE GROUTED SOLID. FILLING CELLS WITH MORTAR IS UNACCEPTABLE.
- 11. PROVIDE #5 VERTICAL REINFORCING BARS IN (2) CELLS ADJACENT TO WINDOWS AND DOOR OPENINGS AND AT ALL CORNERS AND DISCONTINUOUS EDGES. UNLESS NOTED OTHERWISE.
- 12. UNLESS NOTED OTHERWISE, ALL MASONRY WALLS SHALL BE REINFORCED VERTICALLY WITH MINIMUM #5
- VERTICAL BARS AT 32" O.C.
- 14. STARTER COURSES OF ALL CMU WALLS SHALL BE GROUTED SOLID.
- 15. STANDARD LOW LIFT AND HIGH LIFT GROUTING PROCEDURES AS OUTLINED IN TMS 402-2016 SHALL BE STRICTLY ADHERED TO.
- 16. WHERE THE FOLLOWING CONDITIONS ARE MET, PLACE GROUT IN LIFTS NOT EXCEEDING 12 FT 8 IN. a.) THE MASONRY HAS CURED FOR AT LEAST 4 HOURS. b.) THE GROUT SLUMP IS MAINTAINED BETWEEN 10 INCHES TO 11 INCHES c.) NO INTERMEDIATE REINFORCED BOND BEAMS ARE PLACED BETWEEN THE TOP AND BOTTOM OF THE POUR HEIGHT.
- 17. WHEN THE CONDITIONS OF 16g 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
- 18. WHEN THE CONDITIONS OF 160 OR 16b ARE NOT MET, PLACE GROUT IN LIFTS NOT EXCEEDING 5 FEET 4 INCHES.
- 19. CONSOLIDATE GROUT POURS EXCEEDING 12 INCHES IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
- 20. 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.
- 21. WHEN GROUTING, FORM GROUT KEYS BETWEEN GROUT LIFTS WHEN THE FIRST LIFT IS PERMITTED TO SET PRIOR TO PLACEMENT OF THE SUBSEQUENT LIFT. a.) FORM THE GROUT KEY BY TERMINATING THE GROUT A MINIMUM OF 1 1/2 INCH BELOW A
  - MORTAR JOINT. b.) DO NOT FORM GROUT KEYS WITHIN BOND BEAMS. c.) 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. 22. THE MASONRY CONTRACTOR SHALL CLEAN EXPOSED MASONRY SURFACES OF ALL STAINS, EFFLORESCENCE,
- MORTAR OR GROUT DROPPINGS, AND DEBRIS.
- 23. COVER TOP OF UNFINISHED MASONRY WORK TO PROTECT IT FROM THE WEATHER.
- 24. 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.
- 25. 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.

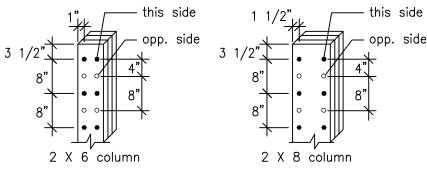
10. ALL FILLET WELDS SHALL BE A MINIMUM OF 1/4" UNLESS NOTED OTHERWISE, ALL WELDS SHALL BE VISUALLY INSPECTED AND ALL FULL PENETRATION WELDS SHALL BE INSPECTED BY MAGNETIC PARTICLE TESTING OR

11. AN INDEPENDENT STEEL TESTING AGENCY SHALL PERFORM ALL INSPECTION AND TESTING. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE TESTING REQUIREMENTS

13. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS. ALL NON-GALVANIZED STEEL SHALL RECEIVE ONE COAT OF APPROVED PRIMER PAINT. DAMAGED

13. PLACEMENT OF PIPE OR CONDUIT WITHIN REINFORCED CELLS IS PROHIBITED.

- PRE-ENGINEERED WOOD ROOF TRUSSES:
- 1. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR WOOD FRAMING DETAILS.
- 2. ALL FASTENING SHALL COMPLY WITH TABLE 2304.10.1 FASTENING SCHEDULE OF THE RHODE ISLAND STATE BUILDING CODE.
- 3. ALL ROOF TRUSSES AND OVERHANGING WOOD MEMBERS SHALL BE HELD DOWN WITH HURRICANE ANCHORS. REFER TO DRAWINGS FOR TYPE AND LOCATIONS.
- 4. WOOD TRUSSES SHALL BE DESIGNED PER THE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES", PUBLISHED BY THE TRUSS PLATE INSTITUTE.
- 5. 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 SHEETS SHOWING CONFIGURATION, DIMENSIONS, LOADS, MEMBER SIZES AND GRADES, MEMBER FORCES, CONNECTION PLATE SIZES, AND PERMANENT BRACING REQUIRED; TRUSS CONNECTION HANGERS FOR FLUSH FRAMING.
- 6. WOOD TRUSS ERECTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL TEMPORARY ERECTION BRACING AND PERMANENT BRACING.
- 7. 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:
- 1. ROOF SHEATHING SHALL BE MINIMUM 5/8" 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.
- 2. 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.
- 3. 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:
- 1. 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 FOREST PRODUCTS ASSOCIATION.
- 2. THE MINIMUM GRADES AND DESIGN VALUES REQUIRED FOR STRUCTURAL LUMBER SHALL BE: SPRUCE-PINE-FIR CONSTRUCTION GRADE Fc=1400 PSI, E=1,300,000 PSI STUDS: JOISTS, RAFTERS, & HEADERS: SPRUCE-PINE-FIR NO. 1/2 Fb=875 PSI E=1,400,000 PSI
- 3. 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.
- 4. 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.
- 5. 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.



- 6. 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.
- 7. 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.
- 8. ALL ROOF RAFTERS SHALL HAVE A SIMPSON HURRICANE CLIP FOR CONNECTIONS AT EACH BEARING LOCATION, REFER TO DRAWING FOR TYPE AND LOCATION.
- 9. FLUSH FRAMING SHALL BE SUPPORTED BY JOIST HANGERS DESIGNED FOR THE FULL CAPACITY OF THE SUPPORTED MEMBER, REFER TO DRAWING FOR TYPE AND LOCATION.
- 10. DOUBLE FLOOR JOISTS UNDER ALL PARTITIONS RUNNING PARALLEL TO SPAN.
- 11. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WITH PRESERVATIVE.
- 12. 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. a) ALL LVL PENETRATIONS SHALL BE MADE IN THE FACTORY. REFER TO TYPICAL ALLOWABLE BEAM PENETRATION DETAIL.
  - b) 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.
- 13. SEE SHEETS A-S4.0, A-S4.1, AND B-S4.0 FOR SHEAR WALL INFORMATION.

WITH Z-MAX CORROSION RESISTANCE.

- 14. TJI'S, LVL (MICROLLAM) AND PSL (PARALLAM) SHALL BE ILEVEL BY WEYERHAEUSER, OR APPROVED EQUAL.
- 15. 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 PSI16. LVL'S SHALL BE FREE OF FINGER JOINTS, SCARF JOINTS OR MECHANICAL CONNECTIONS FOR THE FULL
- LENGTH OF THE MEMBER. 17. 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
- 18. 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
- 19. ADHESIVE USED SHALL BE WATERPROOF, MEETING THE REQUIREMENTS OF ASTM D-2559-12a (2018). 20. ALL SIMPSON CONNECTORS (HANGERS, STRAPS, UPLIFT CONNECTORS, POST CAPS, ETC.) SHALL BE COATED
- 21. ALL FASTENING SHALL COMPLY WITH TABLE 2304.10.1 FASTENING SCHEDULE OF THE RHODE ISLAND STATE BUILDING CODE.

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TASK 1. Verify that the welding procedures	INSPECTION TYPE PERFORM	DESCRIPTION	TASK 11. Document acceptance of rejection of	INSPECTION TYPE DOCUMENT	DESCRIPTION
specification (WPS) is available 2. Verify manufacturer certifications for welding consumables are available	PERFORM		all bolted connections	that the work has bee	en performed as required. This is in addition to all other
3. Verify material identification	PERFORM	Type and grade.	STRUCTURAL - STEEL - NON DI STEEL INSPECTION TASKS DURING BOI		
4. Welder Identification System	PERFORIVI	The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or	2018 IBC 1705.2.1, AISC 360-16: Section	on N5.5	1
		member can be identified. Stamps, if used, shall be the low-stress type.	TASK 1. Use of qualified nondestructive testing	INSPECTION TYPE PERFORM	Visual weld inspection and nondestructive testing (NDT) shall b
5. Fit-up of groove welds (including joint geometry)	OBSERVE	<ul> <li>✓ Joint preparation</li> <li>✓ Dimensions (alignment, root opening, root face, bevel)</li> </ul>	personnel		conducted by personnel qualified in accordance with AWS D1.8 clause 7.2
		<ul> <li>✓ Cleanliness (condition of steel surfaces)</li> <li>✓ Tacking (tack weld quality and location)</li> <li>✓ Backing type and fit (if applicable)</li> </ul>	2. CJP groove welds	OBSERVE	[NOTE: DOR <u>must</u> delete this row if section D (SEISMIC PROVISIONS SECTION) is checked] Dye penetrant testing (DT) and ultrasonic testing (UT) shall be performed on 20% of CJP groove welds for materials greater th
6. Configuration and finish of access holes	OBSERVE				5/16" (8mm) thick. Testing rate must be increased to 100% if greater than 5% of welds tested have unacceptable defects.
7. Fit-up of fillet welds	OBSERVE	<ul> <li>✓ Dimensions (alignment, gaps at root)</li> <li>✓ Cleanliness (condition of steel surfaces)</li> <li>✓ Tacking (tack weld quality and location)</li> </ul>	3. Welded joints subject to fatigue	OBSERVE	Dye penetrant testing (DT) and Ultrasonic testing (UT) shall be performed on 100% of welded joints identified on contract drawings as being subject to fatigue.
OBSERVE: Observe these items on a	random sampling b	or bolted connection, and required verification. asis daily to insure that applicable requirements are met.	4. Weld tab removal sites	OBSERVE	At the end of welds where weld tabs have been removed, magnetic particle testing shall be performed on the same beam-to-column joints receiving UT
Operations need not be delayed pend	ing these inspection	s at contractor's risk.			or bolted connection, and required verification.
TEEL INSPECTION <u>DURING</u> WELDING 2018 IBC 1705.2.1, AISC 360-16: Table		WING ARE IN COMPLIANCE	OBSERVE: Observe these items on Operations need not be delayed pendi		asis daily to insure that applicable requirements are met. at contractor's risk.
TASK	INSPECTION TYPE	DESCRIPTION	STRUCTURAL - STEEL - COMPO	SITE CONSTRUC	TION*
8. Use of qualified welders	PERFORM	Welding by welders, welding operators, and tack welders who are qualified in conformance with requirements.	COMPOSITE CONSTRUCTION PRIOR TO 2018 IBC 1705.2.1, AISC 360-16:		VERIFY THE FOLLOWING ARE IN COMPLIANCE
9. Control and handling of welding consumables	OBSERVE	<ul> <li>✓ Packaging</li> <li>✓ Electrode atmospheric exposure control</li> </ul>	TASK	INSPECTION TYPE	
10. No welding over cracked tack welds	OBSERVE		1. Placement and installation of steel headed stud anchors	PERFORM	
11. Environmental conditions	OBSERVE	<ul> <li>✓ Wind speed within limits</li> <li>✓ Precipitation and temperature</li> </ul>	2. Material indentification of reinforcing steel (Type/Grade)	OBSERVE	
12. Welding Procedures Specification followed	OBSERVE	<ul> <li>✓ Wind speed within limits</li> <li>✓ Precipitation and temperature</li> </ul>	3. Determination of carbon equivalent for reinforcing steel other than ASTM A706	OBSERVE	
		<ul> <li>✓ Precipitation and temperature</li> <li>✓ Settings on welding equipment</li> <li>✓ Travel speed</li> </ul>	4. Proper reinforcing steel size, spacing,	OBSERVE	
		<ul> <li>✓ Selected welding materials</li> <li>✓ Shielding gas type/flow rate</li> </ul>	clearances, support and orientation 5. Reinforcing steel has not been re-bent	OBSERVE	
		<ul> <li>✓ Preheat applied</li> <li>✓ Interpass temperature maintained (min./max.)</li> </ul>	in the field 6. Reinforcing clearances have been	OBSERVE	
		<ul> <li>✓ Proper position (F, V, H, OH)</li> <li>✓ Intermix of filler metals avoided</li> </ul>	provided 7. Reinforcing steel has been tied and	OBSERVE	
13. Welding techniques	OBSERVE	<ul> <li>✓ Interpass and final cleaning</li> <li>✓ Each pass within profile limitations</li> </ul>	supported as required		
		<ul> <li>Each pass meets quality requirements</li> </ul>	8. Composite member has required size *See Concrete Construction Section for a	OBSERVE	pection of composite steel construction.
		br bolted connection, and required verification.		-	Ited connection, and required verification.
Operations need not be delayed pendin			OBSERVE: Observe these items on a rate be delayed pending these inspections at cor		ly to insure that applicable requirements are met. Operations need r
STEEL INSPECTION AFTER WELDING - \			STRUCTURAL - STEEL - OTHER		
2018 IBC 1705.2.1, AISC 360-16: Table	C-N5.4-3		OTHER STEEL INSPECTIONS - VER		
TASK 14. Welds cleaned	OBSERVE	DESCRIPTION	2018 IBC 1705.2.1, AISC 341-16: TASK	INSPECTION TYPE	
15. Size, length, and location of all	PERFORM	Size, length, and location of all welds conform to the	1. Anchor rods and other embedments supporting structural steel	PERFORM	
welds 16. Welds meet visual acceptance	PERFORM AND	requirements of the detail drawings.         ✓       Crack prohibition	2. Fabricated steel or erected steel frame	OBSERVE	
criteria	DOCUMENT	<ul> <li>✓ Weld/base-metal fusion</li> <li>✓ Crater cross section</li> </ul>	3. Reduced beam sections (RBS) where/if occurs	DOCUMENT	
		<ul><li>✓ Weld profiles</li><li>✓ Weld size</li></ul>	<ul><li>4. Protected zones</li><li>5. H-piles where/if occurs</li></ul>	DOCUMENT DOCUMENT	
		<ul><li>✓ Undercut</li><li>✓ Porosity</li></ul>			Ited connection, and required verification.
17. Arc strikes 18. k-area	PERFORM	When welding of doubles plotes, continuity plotes or stiffeners	OBSERVE: Observe these items on a rail be delayed pending these inspections at cor	ndom sampling basis dai htractor's risk.	ly to insure that applicable requirements are met. Operations need r
10. K-alea	FERFORM	When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks.		-	ned as required. This is in addition to all other required reports.
19. Backing removed, weld tabs removed and finished, and fillet welds	OBSERVE	✓ Interpass and final cleaning	STRUCTURAL - COLD FORMED	_	<b>PLACEMENT SECTION</b> NT - VERIFY THE FOLLOWING ARE IN COMPLIANCE
added where required		<ul> <li>✓ Each pass within profile limitations</li> <li>✓ Each pass meets quality requirements</li> </ul>	SDI QA/QC-2011, Appendix 1, Tal		
20. Repair activities	PERFORM AND DOCUMENT		TASK	INSPECTION TYPE	DESCRIPTION
21. Document acceptance or rejection of welded joint or member	PERFORM		1. Verify compliance of materials (deck and all deck accessories) with construction documents, including	PERFORM	
		or bolted connection, and required verification. Pasis daily to insure that applicable requirements are met.	profiles, material properties, and base metal thickness		
Operations need not be delayed pendin	g these inspections	at contractor's risk.	2. Document acceptance or rejection of deck and deck accessories	DOCUMENT	
<b>DOCUMENT</b> : Document in a report the reports.	at the work has been	performed as required. This is in addition to all other required		ch weld, fastener or bo	lted connection, and required verification.
STRUCTURAL - STEEL - BOLTIN	G SECTION				ed as required. This is in addition to all other required reports.
		FOLLOWING ARE IN COMPLIANCE		-	T - VERIFY THE FOLLOWING ARE IN COMPLIANCE
					DESCRIPTION
2018 IBC 1705.2.1, AISC 360-16: Table	C-N5.6-1	DESCRIPTION	SDI QA/QC-2011, Appendix 1, Ta TASK	INSPECTION TYPE	
2018 IBC 1705.2.1, AISC 360-16: Table TASK 1. Manufacturer's certifications available		DESCRIPTION	TASK 3. Verify compliance of deck and all deck	INSPECTION TYPE PERFORM	
2018 IBC 1705.2.1, AISC 360-16: Table TASK 1. Manufacturer's certifications available for fastener materials 2. Fasteners marked in accordance with	C-N5.6-1 INSPECTION TYPE	DESCRIPTION	TASK         3. Verify compliance of deck and all deck accessories installation with construction documents	PERFORM	
2018 IBC 1705.2.1, AISC 360-16: Table TASK 1. Manufacturer's certifications available for fastener materials 2. Fasteners marked in accordance with ASTM requirements	C-N5.6-1 INSPECTION TYPE PERFORM	DESCRIPTION	TASK         3. Verify compliance of deck and all deck accessories installation with construction documents         4. Verify deck materials are represented by the mill certifications that comply with		
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2018 IBC 1705.2.1, AISC 360-16: Table         TASK         1. Manufacturer's certifications available for fastener materials         2. Fasteners marked in accordance with ASTM requirements         3. Proper fasteners selected for joint detail (grade, type, bolt length if threads are to be excluded from shear plane)         4. Proper bolting procedures selected for joint detail         5. Connecting elements, including appropriate faying surface condition and hole preparation, if specified, meet applicable requirements         6. Proper storage provided for bolts, nuts, washers, and other fastener components         PERFORM: Perform these tasks for OBSERVE: Observe these items on Operations need not be delayed pendint.	C-N5.6-1 INSPECTION TYPE PERFORM OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSERVE COBSER	or bolted connection, and required verification. asis daily to insure that applicable requirements are met. at contractor's risk.	TASK         3. Verify compliance of deck and all deck accessories installation with construction documents         4. Verify deck materials are represented by the mill certifications that comply with the construction documents         5. Document acceptance or rejection of installation of deck and deck accessories         PERFORM:       Perform these tasks for each deck accessories         DOCUMENT:       Document in a report that         METAL DECK INSPECTION AFTER I         SDI QA/QC-2011, Appendix 1, Tall         TASK         6. Welding procedure specification (WPS) available         7. Manufacturers certifications for welding consumables available         8. Material identification (type/grade)         9. Check welding equipment         PERFORM:       Perform these tasks for each	PERFORM PERFORM DOCUMENT ach weld, fastener or bo work has been perform DECK PLACEMENT ole 1.3 INSPECTION TYPE PERFORM OBSERVE OBSERVE OBSERVE	Dited connection, and required verification. The as required. This is in addition to all other required reports. - VERIFY THE FOLLOWING ARE IN COMPLIANCE DESCRIPTION LESCRIPTION
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018 IBC 1705.2.1, AISC 360-16: Table         TASK         1. Manufacturer's certifications available for fastener materials         2. Fasteners marked in accordance with ASTM requirements         3. Proper fasteners selected for joint detail (grade, type, bolt length if threads are to be excluded from shear plane)         4. Proper bolting procedures selected for joint detail       5. Connecting elements, including appropriate faying surface condition and hole preparation, if specified, meet applicable requirements         6. Proper storage provided for bolts, nuts, washers, and other fastener components         PERFORM: Perform these tasks for OBSERVE: Observe these items on Operations need not be delayed pendin         TASK         8. Joint brou	C-N5.6-1 INSPECTION TYPE PERFORM OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE each weld, fastener of a random sampling b g these inspections a TING - VERIFY THE F C-N5.6-2 INSPECTION TYPE OBSERVE OBSERVE OBSERVE	or bolted connection, and required verification. asis daily to insure that applicable requirements are met. at contractor's risk.  OLLOWING ARE IN COMPLIANCE	TASK         3. Verify compliance of deck and all deck accessories installation with construction documents         4. Verify deck materials are represented by the mill certifications that comply with the construction documents         5. Document acceptance or rejection of installation of deck and deck accessories         PERFORM:       Perform these tasks for each DOCUMENT:         DOCUMENT:       Document in a report that         METAL DECK INSPECTION AFTER I SDI QA/QC-2011, Appendix 1, Tal         TASK         6. Welding procedure specification (WPS) available         7. Manufacturers certifications for welding consumables available         8. Material identification (type/grade)         9. Check welding equipment         PERFORM:       Perform these tasks for each OBSERVE:         Observe these items on a rar be delayed pending these inspections at cor         STRUCTURAL - COLD FORMED METAL DECK INSPECTION DURING         SDI QA/QC-2011, Appendix 1, Tal         TASK         1. Use of qualified welders         2. Control and handling of welding	PERFORM PERFORM DOCUMENT ach weld, fastener or bo work has been perform DECK PLACEMENT DECK PLACEMENT DECK PLACEMENT DECK PLACEMENT OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE Ch weld, fastener or bol dom sampling basis dail itractor's risk. METAL DECK - V WELDING - VERIFY DIE 1.4 INSPECTION TYPE OBSERVE	Dited connection, and required verification. The das required. This is in addition to all other required reports. - VERIFY THE FOLLOWING ARE IN COMPLIANCE DESCRIPTION (Ited connection, and required verification. y to insure that applicable requirements are met. Operations need not be a complete the second secon

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has been performed as required. This is in addition to all other				

ON TYPE	DESCRIPTION			
ORM	Visual weld inspection and nondestructive testing (NDT) shall be conducted by personnel qualified in accordance with AWS D1.8 clause 7.2			
RVE	[NOTE: DOR <u>must</u> delete this row if section D (SEISMIC PROVISIONS SECTION) is checked] Dye penetrant testing (DT) and ultrasonic testing (UT) shall be performed on 20% of CJP groove welds for materials greater than 5/16" (8mm) thick. Testing rate must be increased to 100% if greater than 5% of welds tested have unacceptable defects.			
RVE	Dye penetrant testing (DT) and Ultrasonic testing (UT) shall be performed on 100% of welded joints identified on contract drawings as being subject to fatigue.			
RVE	At the end of welds where weld tabs have been removed, magnetic particle testing shall be performed on the same beam-to-column joints receiving UT			
fastener o	r bolted connection, and required verification.			
ampling basis daily to insure that applicable requirements are met. pections at contractor's risk.				
	TION* VERIFY THE FOLLOWING ARE IN COMPLIANCE			

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SDI QA/QC-2011, Appendix 1, Ta	ble 1.5	
TASK 5. Verify size and location of welds, ncluding support, sidelap, and perimeter	INSPECTION TYPE PERFORM	DESCRIPTION
velds. 5. Welds meet visual acceptance criteria	PERFORM	
. Verify repair activities	PERFORM	
. Document acceptance or rejection of relds	DOCUMENT	
	each weld, fastener or b	l olted connection, and required verification.
OCUMENT: Document in a report tha	t work has been perforr	ned as required. This is in addition to all other required reports.
	E MECHANICAL FAS	ASTENING SECTION TENING - VERIFY THE FOLLOWING ARE IN COMPLIANCI
DI QA/QC-2011, Appendix 1, Ta TASK	INSPECTION TYPE	DESCRIPTION
. Manufacturer installation instructions	OBSERVE	
vailable for mechanical fasteners	OBSERVE	
nstallation DBSERVE: Observe these items on a ran	dom sampling basis daily	/ to insure that applicable requirements are met. Operations need not
e delayed pending these inspections at con		
ETAL DECK INSPECTION <u>DURING</u> DI QA/QC-2011, Appendix 1, Ta	-	TENING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
TASK	INSPECTION TYPE	DESCRIPTION
B. Fasteners are positioned as required	OBSERVE	
I. Fasteners are installed in accordance vith manufacturer's instructions	OBSERVE	
DBSERVE: Observe these items on a ran e delayed pending these inspections at cor		to insure that applicable requirements are met. Operations need not
DI QA/QC-2011, Appendix 1, Ta	ble 1.8	ENING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
TASK 5. Check spacing, type, and installation of support fasteners	INSPECTION TYPE PERFORM	DESCRIPTION
6. Check spacing, type, and installation of sidelap fasteners	PERFORM	
. Check spacing, type, and installation	PERFORM	
f perimeter fasteners 8. Verify repair activities	PERFORM	
. Document acceptance or rejection of	DOCUMENT	
nechanical fasteners PERFORM: Perform these tasks fr		er or bolted connection, and required verification.
	NSTRUCTION SEC	
ONCRETE CONSTRUCTION, INCLUDING	SCOMPOSITE DECK -	CTION VERIFY THE FOLLOWING ARE IN COMPLIANCE
CONCRETE CONSTRUCTION, INCLUDING BC Table 1705.3 (ACI 318 Refere TASK I. Inspect reinforcement, including prestressing tendons, and verify	SCOMPOSITE DECK -	DESCRIPTION         DESCRIPTION         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
ONCRETE CONSTRUCTION, INCLUDING 3C Table 1705.3 (ACI 318 Refere TASK . Inspect reinforcement, including prestressing tendons, and verify placement.	NSTRUCTION SEC COMPOSITE DECK - ences Noted In IBC INSPECTION TYPE OBSERVE	CTION VERIFY THE FOLLOWING ARE IN COMPLIANCE Table) DESCRIPTION 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.
ONCRETE CONSTRUCTION, INCLUDING 3C Table 1705.3 (ACI 318 Refere TASK . Inspect reinforcement, including orestressing tendons, and verify placement. 2. Reinforcing bar welding	NSTRUCTION SEC COMPOSITE DECK - ences Noted In IBC INSPECTION TYPE OBSERVE	CTION         VERIFY THE FOLLOWING ARE IN COMPLIANCE         Table)         DESCRIPTION         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.         ✓ Verify weldability of reinforcing bars other than ASTM A 706         ✓ Inspect single-pass fillet welds, maximum 5/16" in accordance with AWS D1.4
ONCRETE CONSTRUCTION, INCLUDING 3C Table 1705.3 (ACI 318 Refere TASK . Inspect reinforcement, including brestressing tendons, and verify blacement. 2. Reinforcing bar welding 3. Determination of carbon equivalent for einforcing steel other than ASTM A706	NSTRUCTION SEC COMPOSITE DECK - ences Noted In IBC INSPECTION TYPE OBSERVE OBSERVE	CTION         VERIFY THE FOLLOWING ARE IN COMPLIANCE         Table)         DESCRIPTION         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. <ul> <li>Verify weldability of reinforcing bars other than ASTM A 706</li> <li>Inspect single-pass fillet welds, maximum 5/16" in accordance with AWS D1.4</li> </ul>
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BC Table 1705.3 (ACI 318 Reference         TASK         1. Inspect reinforcement, including prestressing tendons, and verify placement.         2. Reinforcing bar welding         3. Determination of carbon equivalent for reinforcing steel other than ASTM A706         4. Cast in place anchors and post installed drilled anchors (downward inclined)         5. Post-installed adhesive anchors in horizontal or upward inclined orientations         6. Verify use of required mix design         7. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of concrete         8. Inspect concrete and/or shotcrete placement for proper application techniques         9. Verify maintenance of specified curing temperature and technique         10. Pre-stressed concrete         11. Inspect erection of precast concrete members         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.         13. Inspect formwork for shape, location and dimensions of the concrete members being formed.         0DSERVE:       Observe these items on a not be delayed pending these inspections at the second performance of specified curing temperature.	NSTRUCTION SEC COMPOSITE DECK - ences Noted In IBC INSPECTION TYPE OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE CONTINUOUS OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE OBSERVE	TION         VERIFY THE FOLLOWING ARE IN COMPLIANCE         Table)         DESCRIPTION         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.         ✓ Verify weldability of reinforcing bars other than ASTM A 706         ✓ Inspect single-pass fillet welds, maximum 5/16" in accordance with AWS D1.4         Visually inspect all welds in accordance with AWS D1.4         Visually inspect all welds in accordance with AWS D1.4         Verify prior to placing concrete that cast in place anchors and post installed drilled anchors have proper embedment, spacing and edge distance.         ✓ 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         At the time fresh concrete is sampled to fabricate specimes for strength test verify these tests are performed by qualified technicians.         Verify proper application techniques are used during concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.         Inspect curing, cold weather protection, and hot weather protection procedur

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	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.		

# IBC 1705.6

IBC 1705.7

Verify elengths cor
 Inspect of maintain correcords for
 Verify pl determine achieve de
 Determi elements a tests if required

MASON IBC 17 \_\_\_\_\_

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 I/II/ III]
7. Proportions of site-prepared grout and prestressing grout for bonded tendons	OBSERVE	
3. Proportions of site-mixed grout and prestressing grout for bonded tendons	OBSERVE	
9. Placement of masonry units and nortar joints	OBSERVE	
0. Welding of reinforcement	CONTINUOUS	
DBSERVE: Observe these items on a r not be delayed pending these inspections at		aily to insure that applicable requirements are met. Operations need
IASONRY CONSTRUCTION <u>DURIN</u> 3C 1705.4 (TMS 602-16 Tables 3		- VERIFY THE FOLLOWING ARE IN COMPLIANCE
TASK	INSPECTION TYPE	DESCRIPTION
1. Size and location of structural elements is in compliance	OBSERVE	
2. Preparation, construction, and protection of masonry during cold weather (temperature below 40 <sup>0</sup> F 4.4 <sup>0</sup> c) or hot weather (temp above 90 <sup>0</sup> F 32.2 <sup>0</sup> C))	OBSERVE	
3. Application and measurement of prestressing force	CONTINUOUS	
4. Placement of grout and prestressing grout for bonded tendons	CONTINUOUS	
5. Placement of AAC masonry units and construction of thin bed mortar joints	CONTINUOUS	Continuous for first 5000 square feet only (465 square meters).
<ol> <li>Observe preparation of grout specimens, mortar specimens, and/or prisms</li> </ol>	OBSERVE	
7. Type, size and placement of einforcement, connectors, anchor bolts and prestressing tendons and anchorages, including details of anchorage of masonry to structural nembers, frames, or other construction	OBSERVE CONTINUOUS	[NOTE: DOR must either delete 'OBSERVE' for Risk Category IV/V, or delete 'CONTINUOUS' for Risk Categories I/II/ III]
DBSERVE: Observe these items on a r not be delayed pending these inspections at		aily to insure that applicable requirements are met. Operations need
CONTINUOUS: Constant monitoring of ide	ntified tasks by a special	inspector over the duration of performance of said tasks.
TRUCTURAL - WOOD CONSTI VOOD CONSTRUCTION SEISMIC & 018 IBC 1705.11 & 1705.12.2		IIC & WIND SECTION E FOLLOWING ARE IN COMPLIANCE
TASK	INSPECTION TYPE	DESCRIPTION
I. Nailing, bolting, anchoring and other astening of elements of the main	OBSERVE (CONTINUOUS FOR	Includes connectors for: shearwall sheathing, roof/floor sheathing, drag struts/collectors (double top plates), braces, hold downs, roof connections to exterior walls.

## **GEOTECHNICAL - SOILS INSPECTION SECTION**

SOILS INSPECTION - VERIFY THE FOLLOWING ARE IN COMPLIANCE

TASK	INSPECTION TYPE	DESCRIPTION
<ol> <li>Materials below shallow foundations are adequate to achieve the design bearing capacity.</li> </ol>	OBSERVE	
<ol> <li>Excavations are extended to proper depth and have reached proper material</li> </ol>	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 rand be delayed pending these inspections at cor		to insure that applicable requirements are met. Operations need not

# **GEOTECHNICAL - DRIVEN DEEP FOUNDATION ELEMENTS SECTION**

DEEP DRIVEN FOUNDATION CONSTRUCTION - VERIFY THE FOLLOWING ARE IN COMPLIANCE

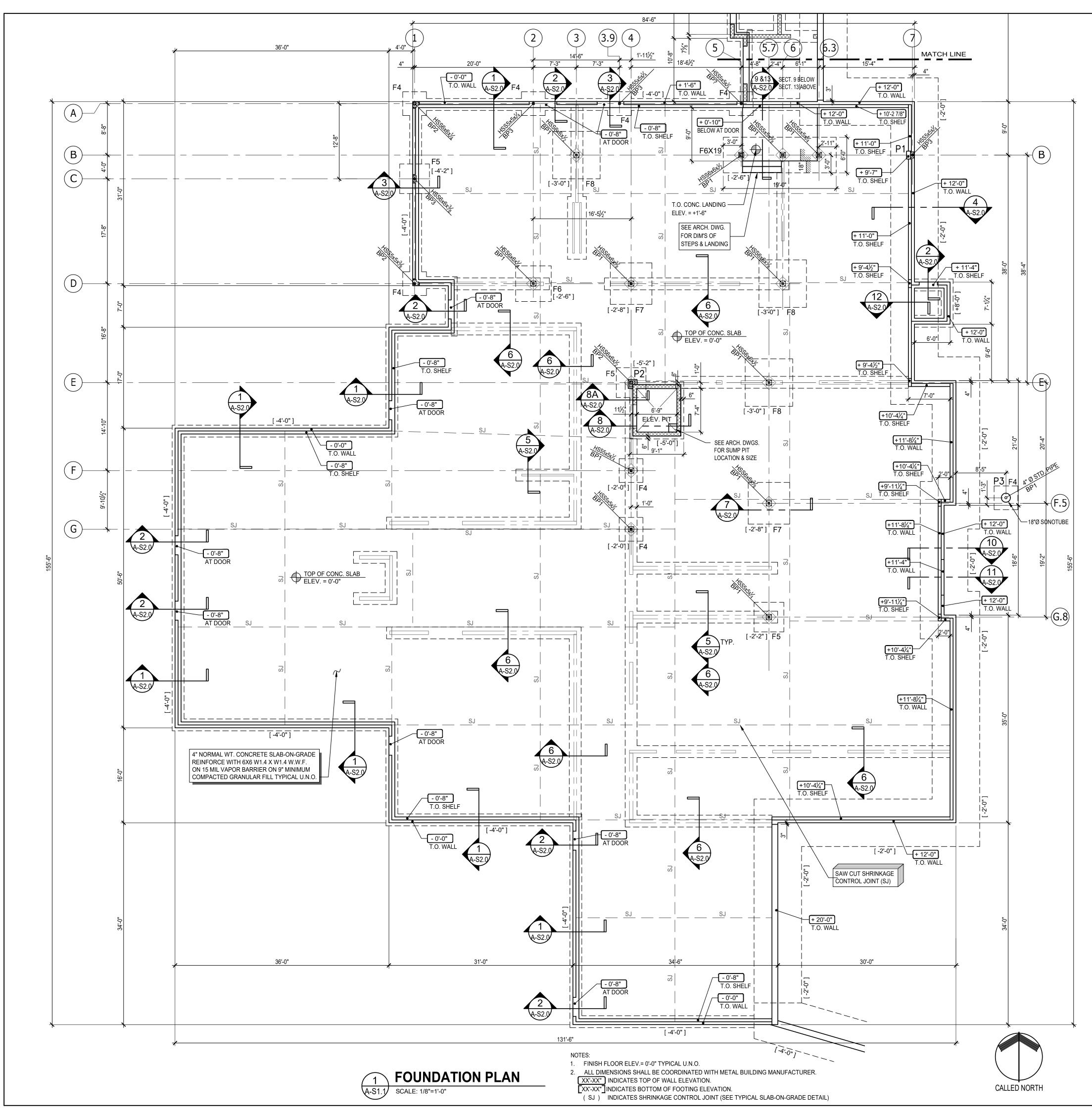
5.7		
TASK	INSPECTION TYPE	DESCRIPTION
element materials, sizes and omply with requirements	CONTINUOUS	
t driving operations and complete and accurate or each element	CONTINUOUS	
placement locations, ne required penetrations to design capacity.	CONTINUOUS	
nine capacities of test s and conduct additional load equired.	CONTINUOUS	

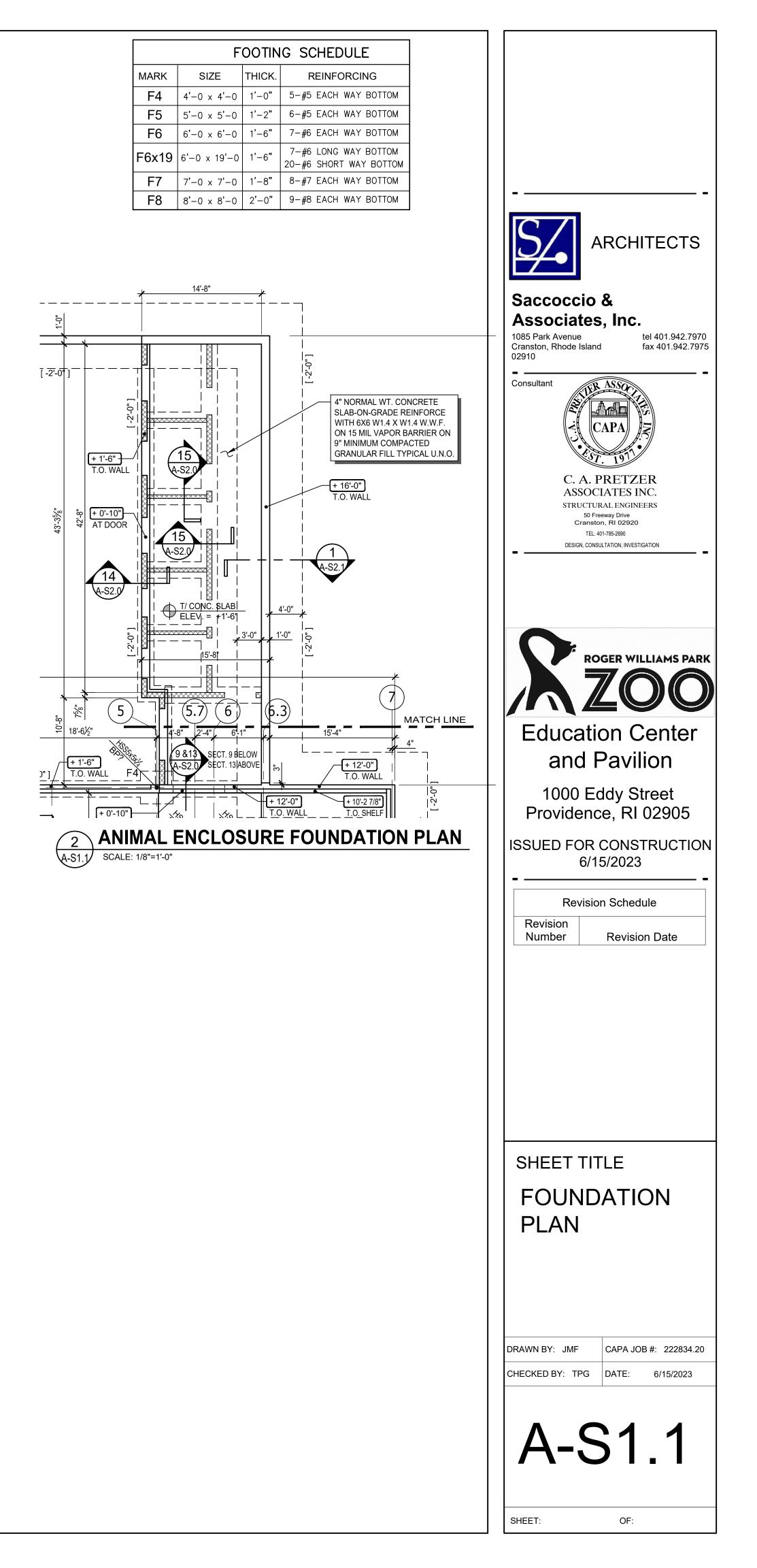
**CONTINUOUS:** Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

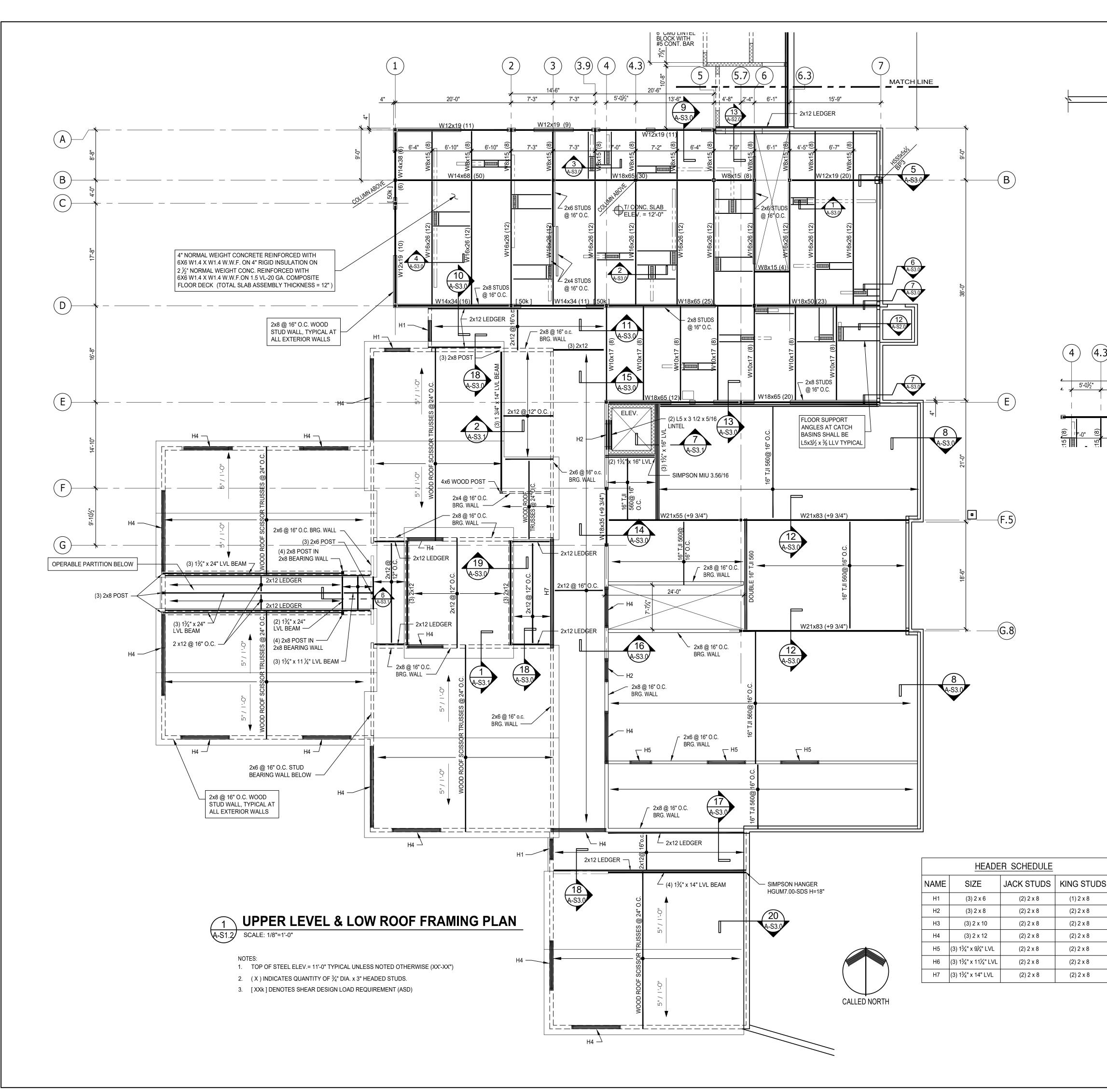
ARCHITECTS
Saccoccio & Associates, Inc. 1085 Park Avenue Cranston, Rhode Island 02910
Consultant
Cranston, RI 02920 TEL: 401-785-2690 DESIGN, CONSULTATION, INVESTIGATION
ROGER WILLIAMS PARK ZOOO Education Center and Pavilion 1000 Eddy Street Providence, RI 02905 ISSUED FOR CONSTRUCTION 6/15/2023
Revision Schedule     Revision
Number Revision Date
SHEET TITLE
SPECIAL INSPECTIONS
DRAWN BY: JMF CAPA JOB #: 222834.20 CHECKED BY: TPG DATE: 6/15/2023
S0.3

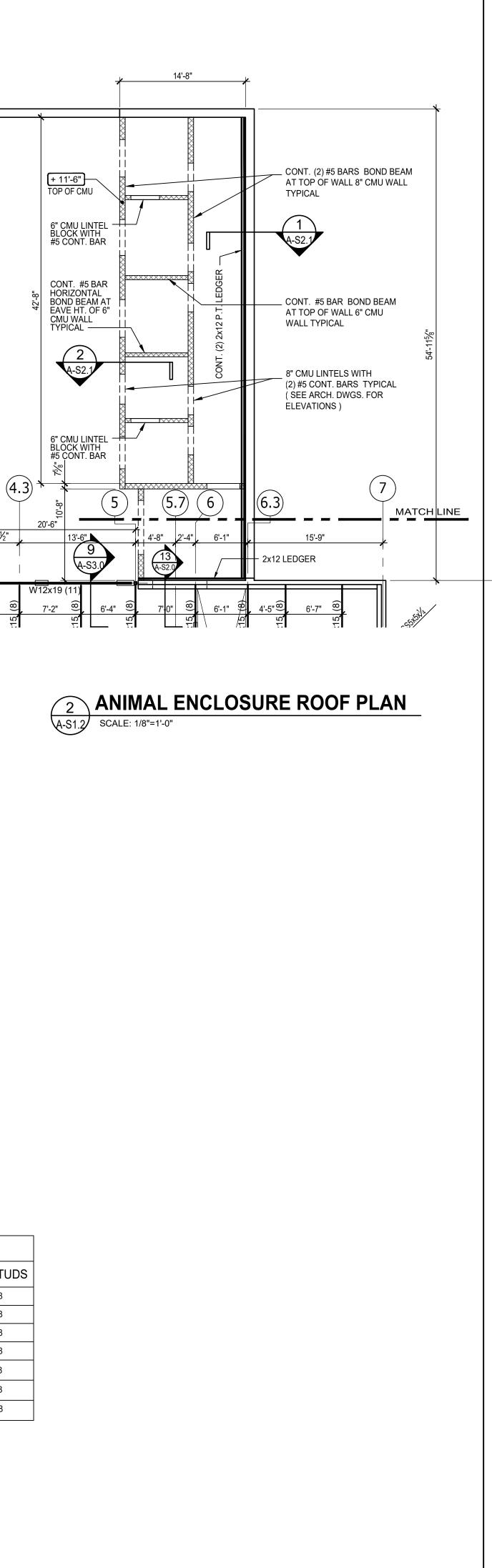
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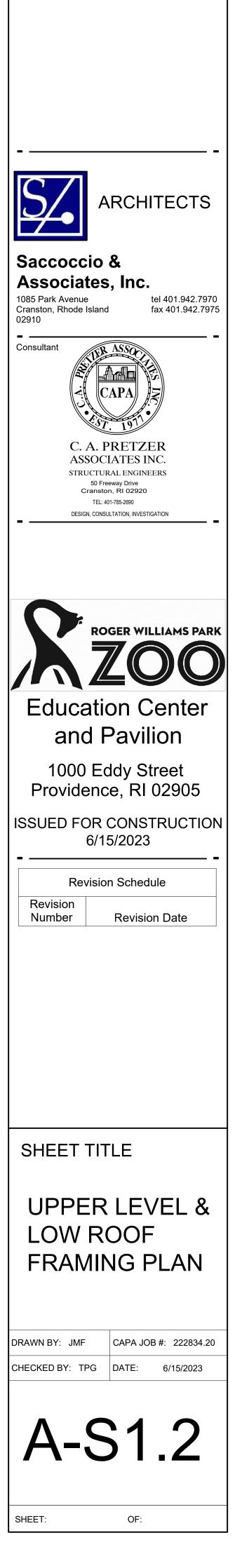
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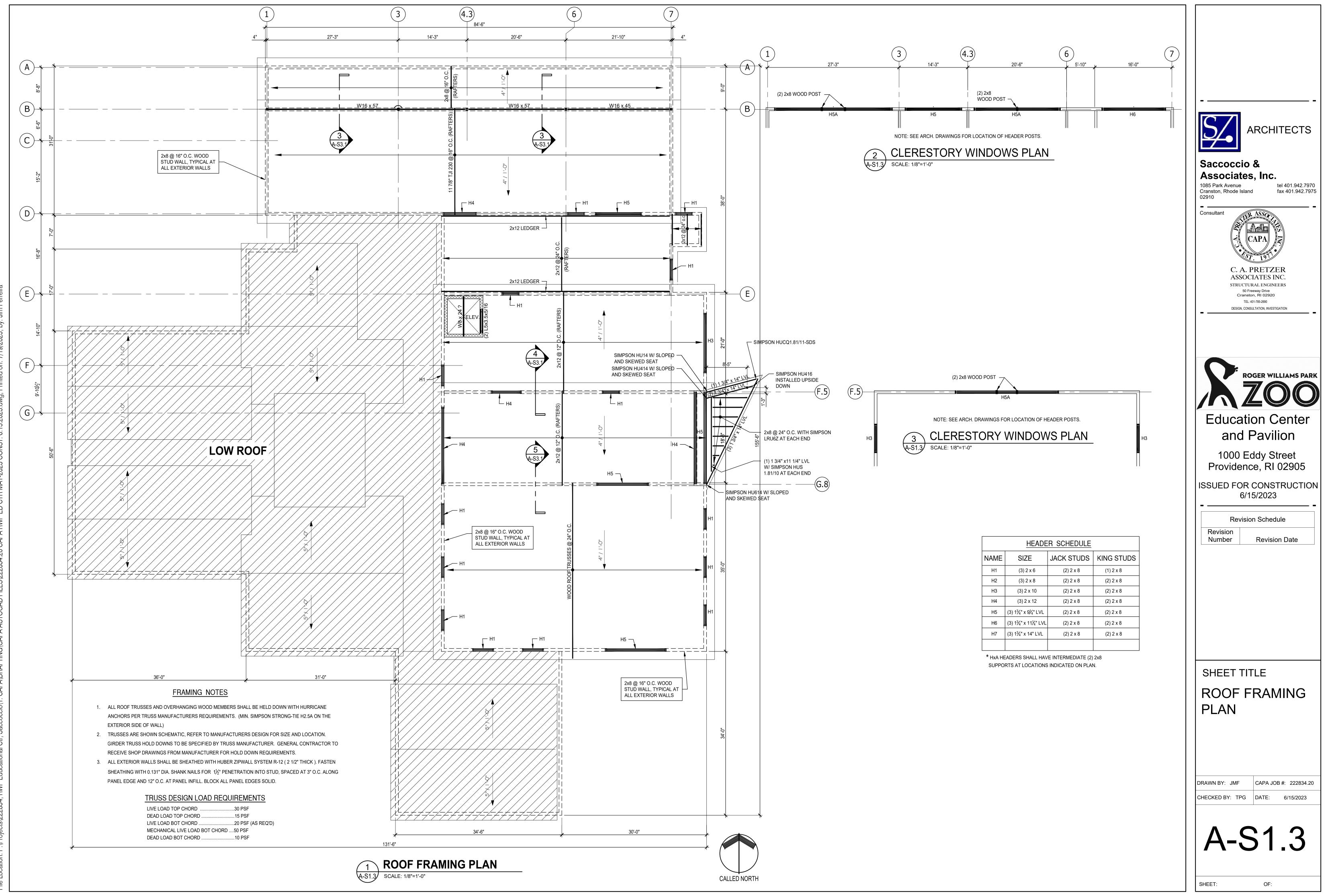


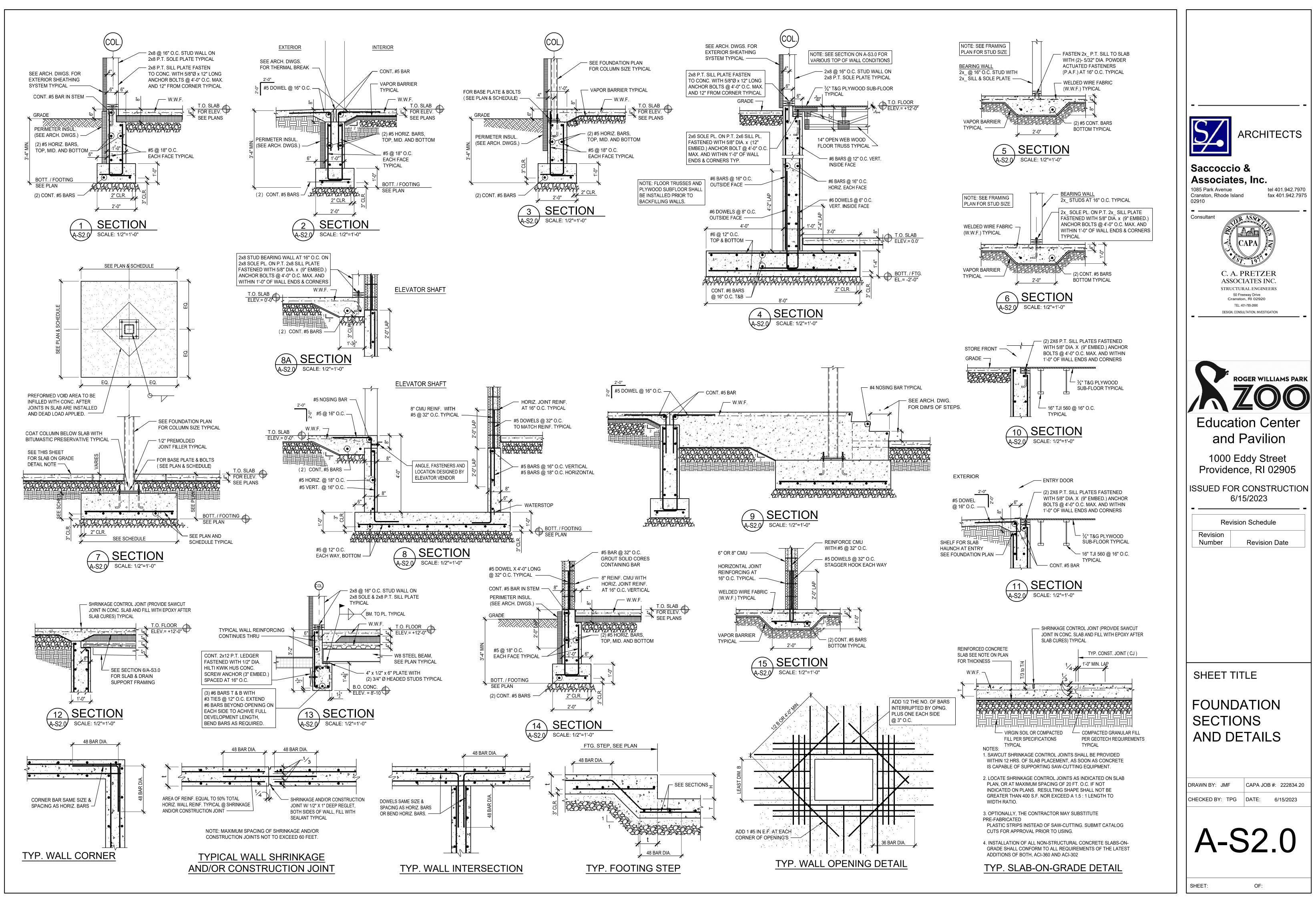


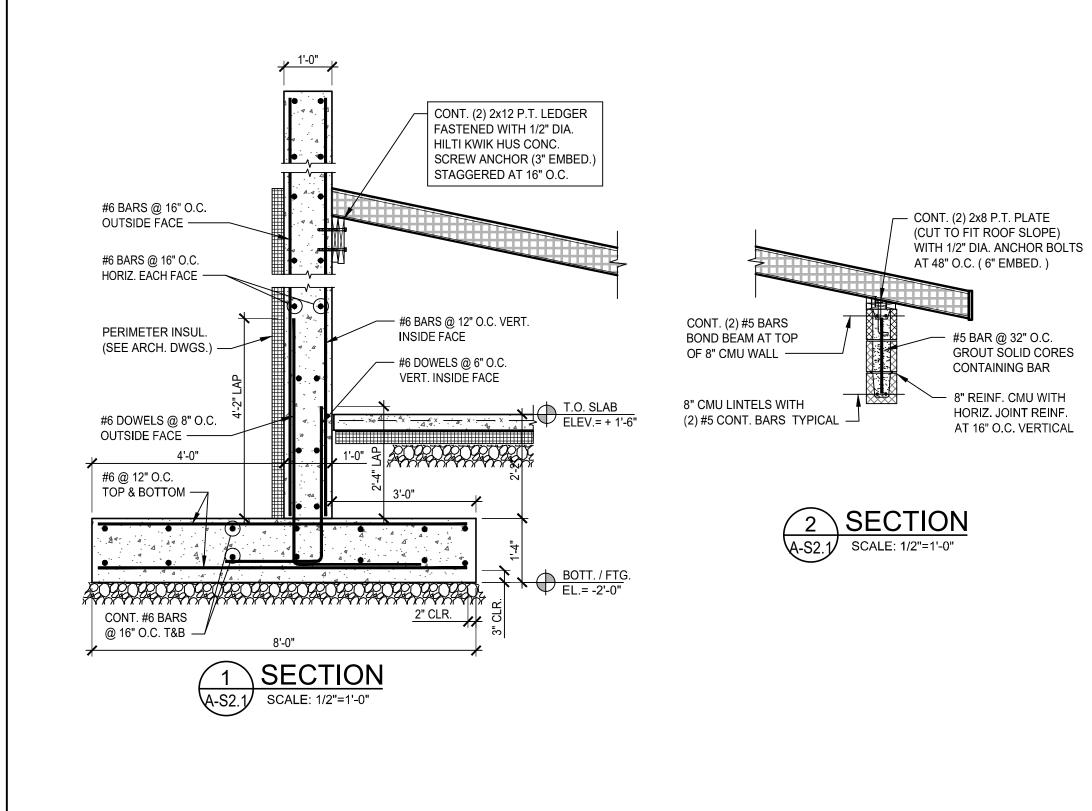


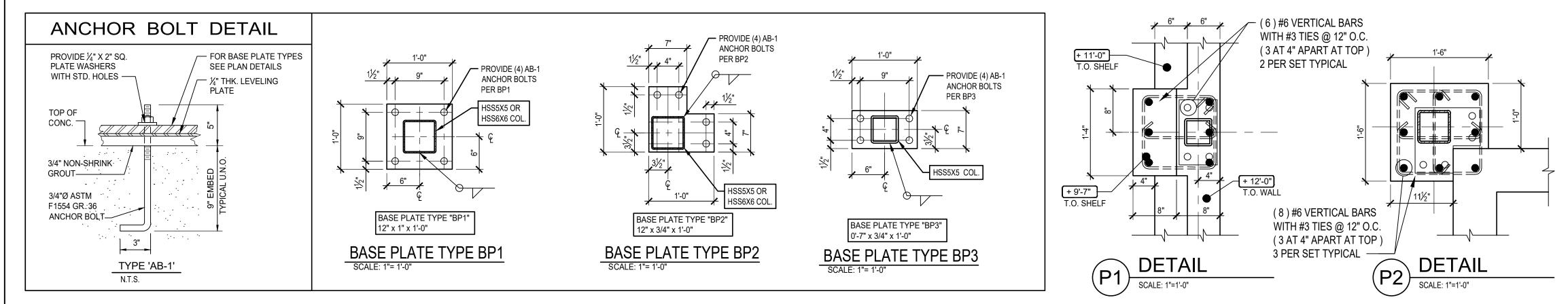




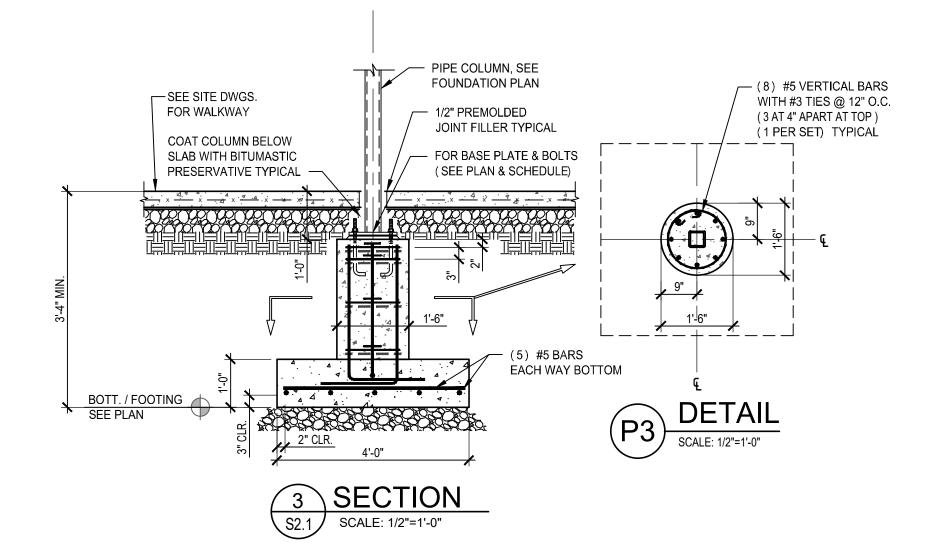




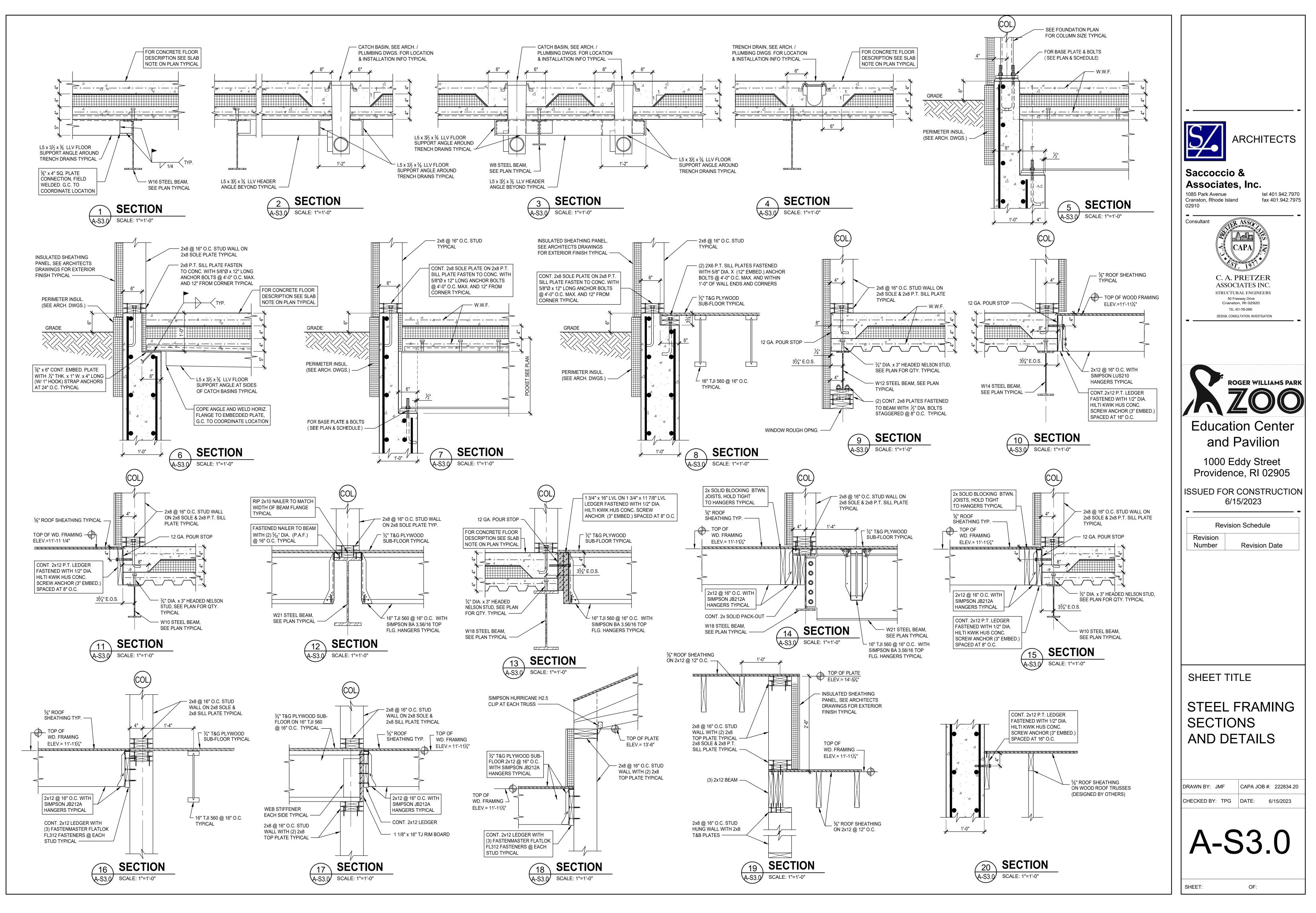


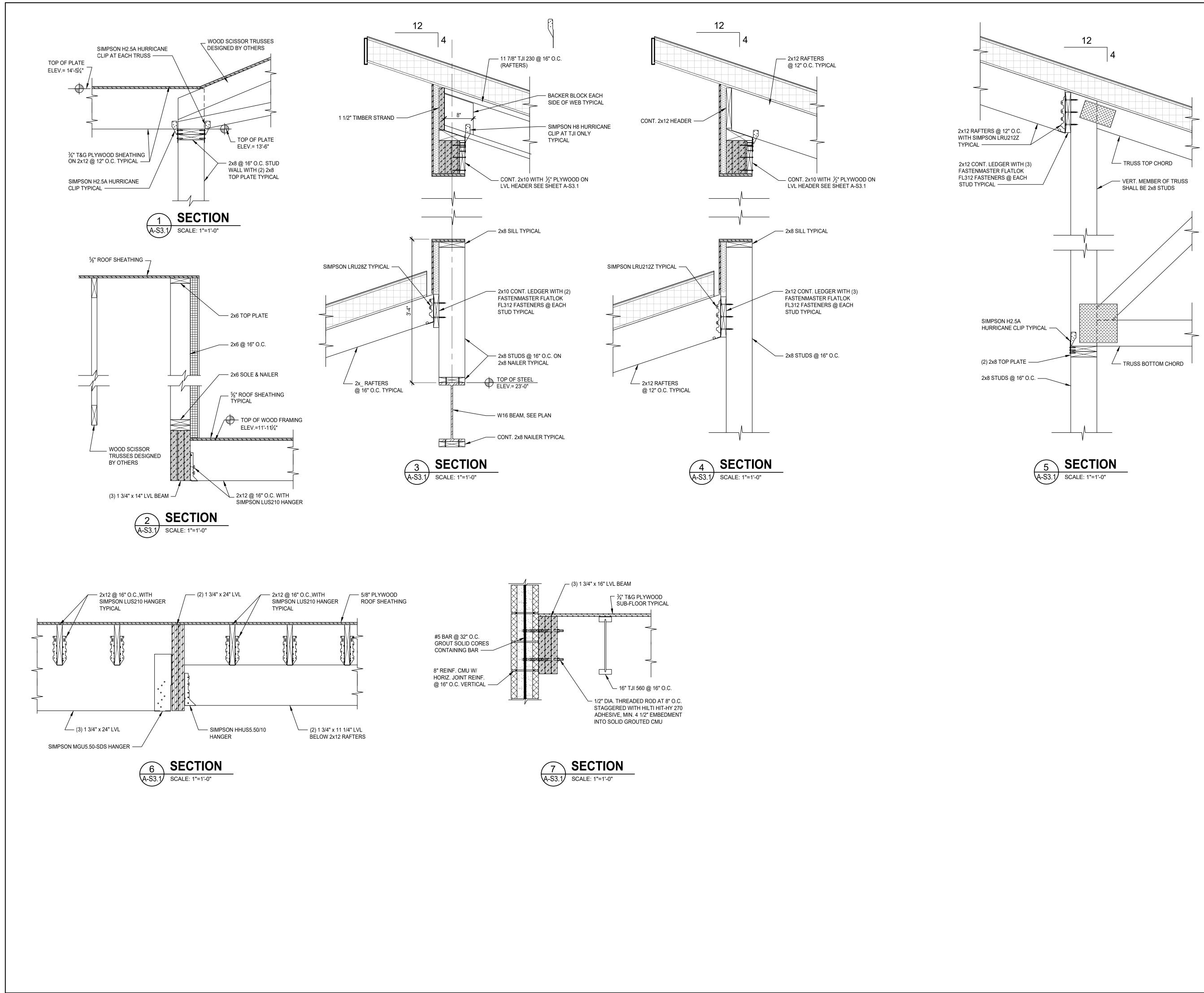




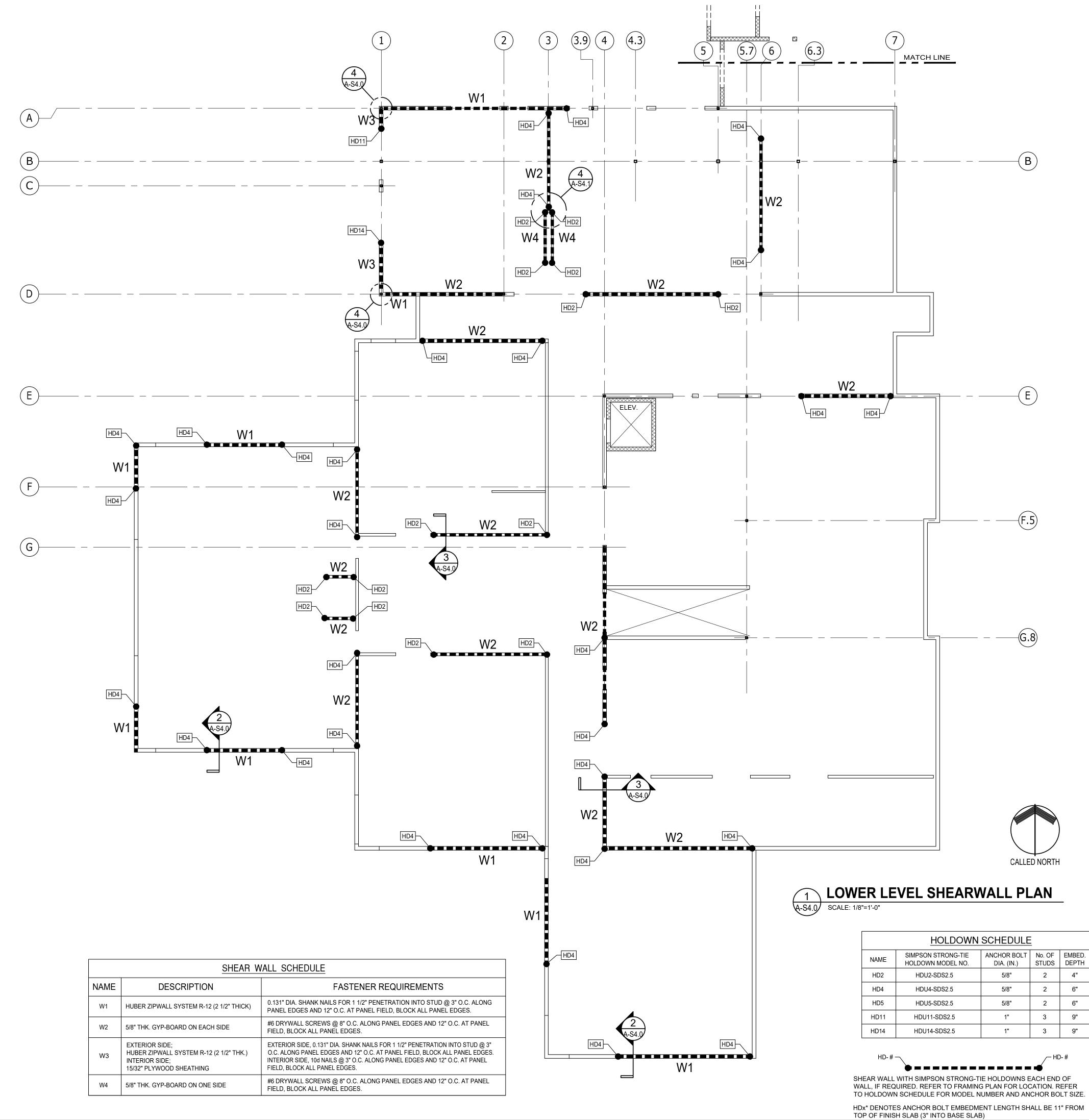


FILL JAMB W/ GROUT (3) #5 BARS LINTEL 8" BEARING NOTE: SEE NOTES 11 & 12 IN MASONRY NOTES SECTION ON SHEET S0.2 TYPICAL JAMB DETAIL	
FILL JAMB W/ GROUT (3) #5 BARS NOTE: SEE NOTES 11 & 12 IN MASONRY NOTES SECTION ON SHEET S0.2 TYPICAL WALL END	ARCHITECTS ARCHITECTS Saccoccio & Saccoccio & Associates, Inc. 1085 Park Avenue Cranston, Rhode Island 02910 Consultant
(2) #5 BARS TYPICAL CMU LINTEL 4'-0" MAX. OPENING	C. A. PRETZER ASSOCIATES INC. STRUCTURAL ENGINEERS 50 Freeway Drive Cranston, RI 02920 TEL: 401-785-2690 DESIGN, CONSULTATION, INVESTIGATION
2'-0" #5 CORNER DOWEL AT BOND BEAM (3) #5 BARS NOTE: SEE NOTES 11 & 12 IN MASONRY NOTES SECTION ON SHEET S0.2	ROGER WILLIAMS PARK ZOOO Education Center and Pavilion
TYPICAL BOND BEAM CORNER	1000 Eddy Street         Providence, RI 02905         ISSUED FOR CONSTRUCTION         6/15/2023         -         Revision Schedule         Revision         Number         Revision Date
	SHEET TITLE BASEPLATE, AND MASONRY DETAILS
	DRAWN BY: JMF CAPA JOB #: 222834.20 CHECKED BY: TPG DATE: 6/15/2023 A-S2.1
	SHEET: OF:

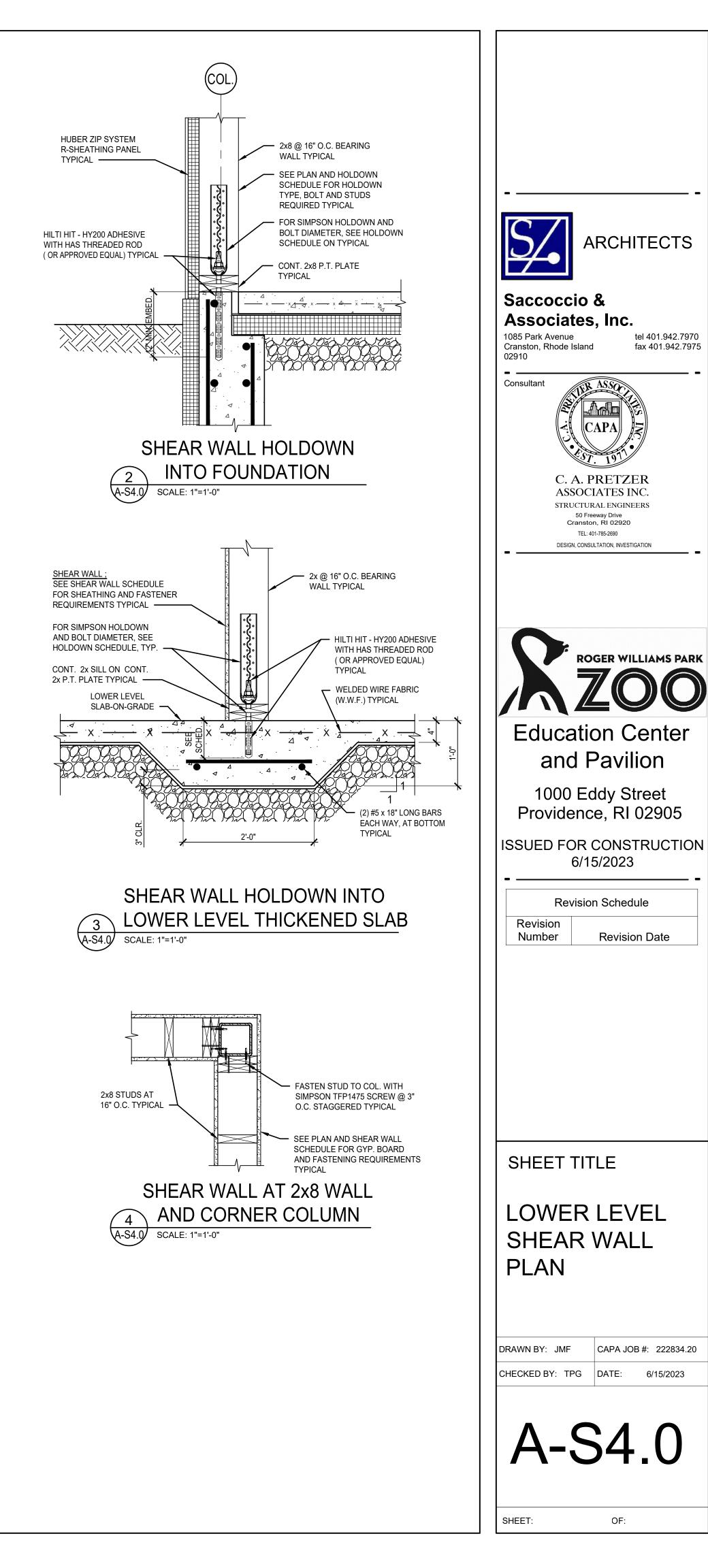


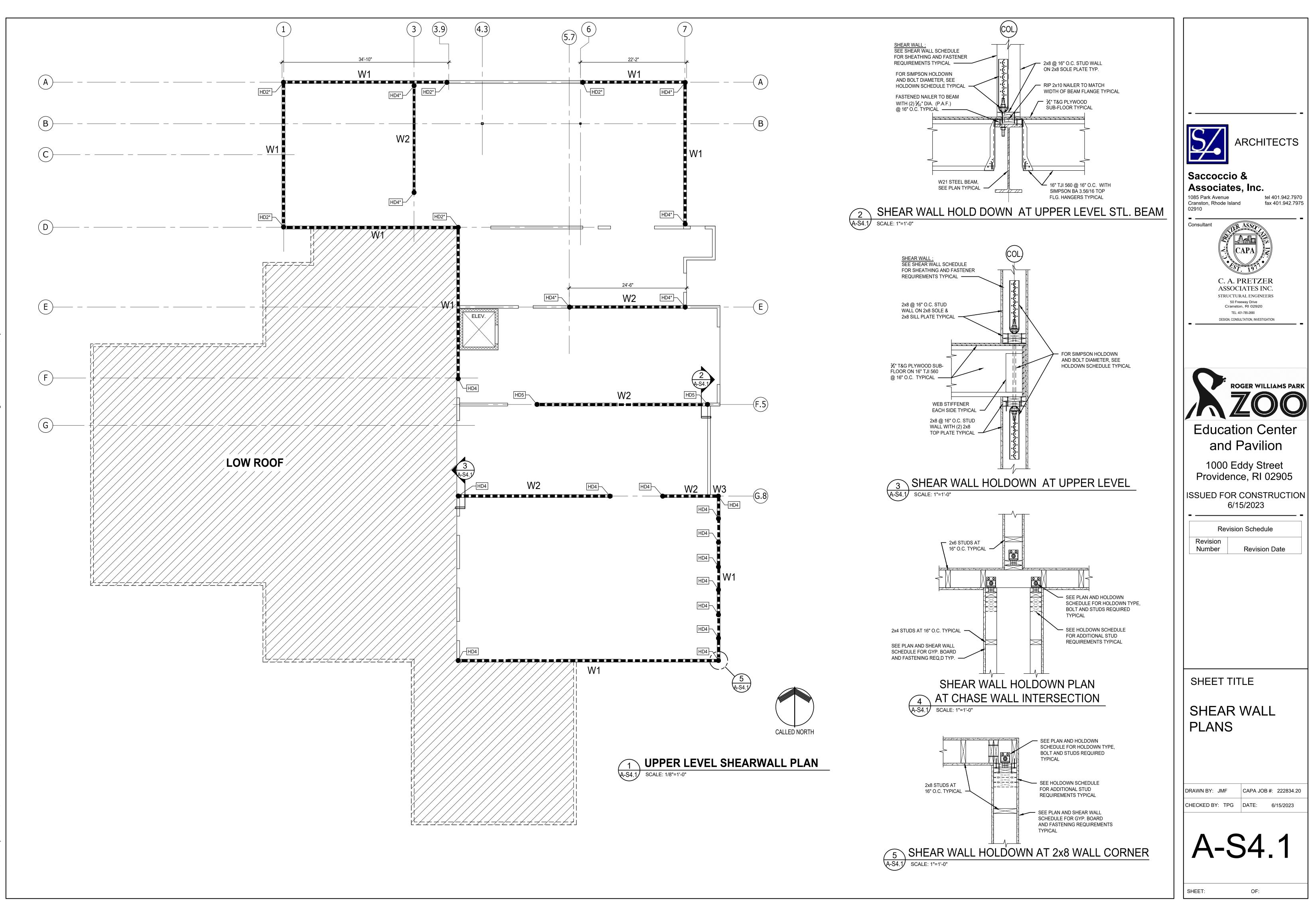


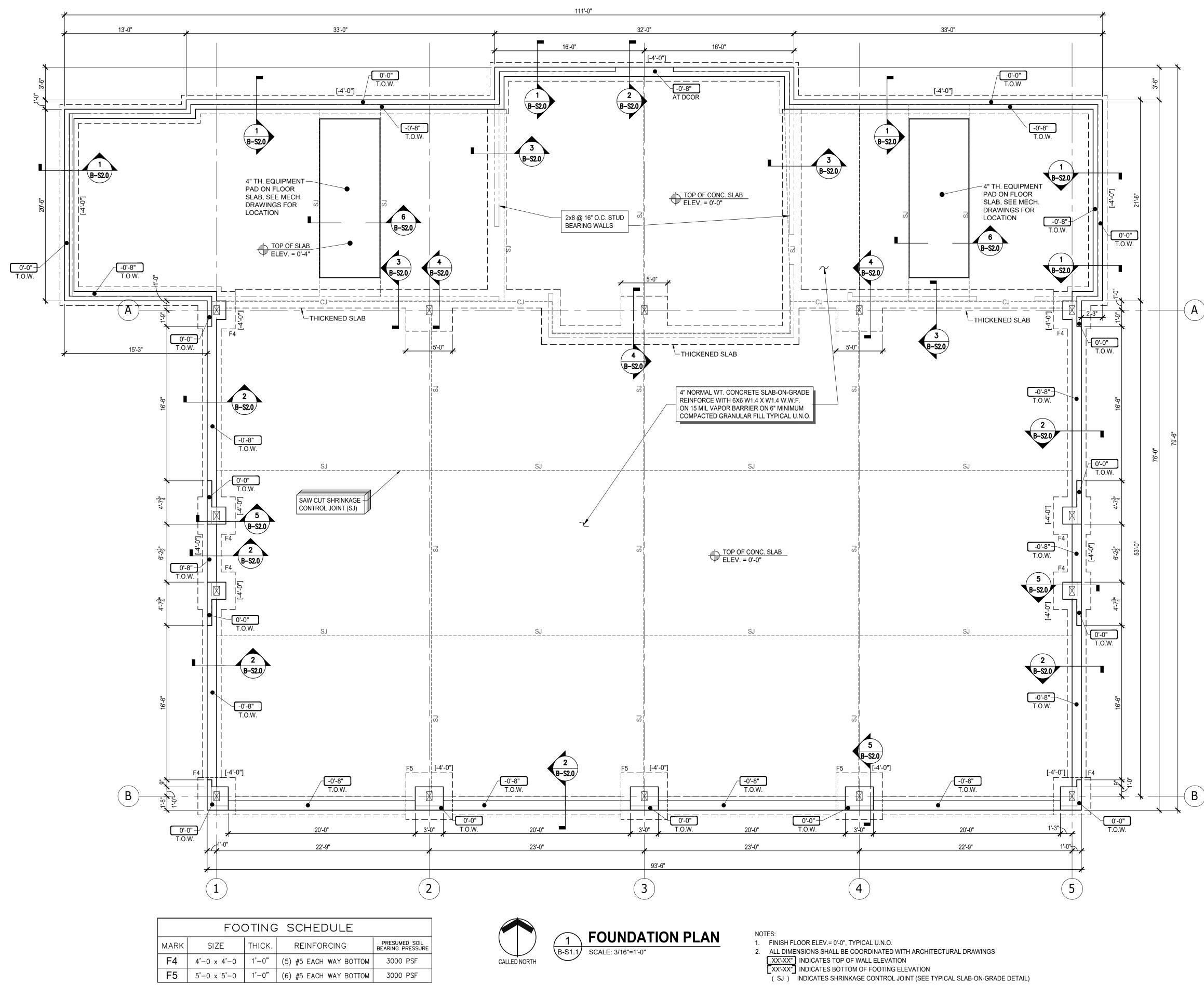
ARCHITECTS Saccoccio & Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970
Cranston, Rhode Island fax 401.942.7975 02910 Consultant CONSULTATION, INVESTIGATION
ROGER WILLIAMS PARK ZOOO Education Center and Pavilion 1000 Eddy Street Providence, RI 02905 ISSUED FOR CONSTRUCTION 6/15/2023
Revision Schedule         Revision Number       Revision Date
SHEET TITLE SECTIONS AND DETAILS
DRAWN BY: JMF CAPA JOB #: 222834.20 CHECKED BY: TPG DATE: 6/15/2023
SHEET: OF:



	<u>SHEAR W</u>	ALL 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.						

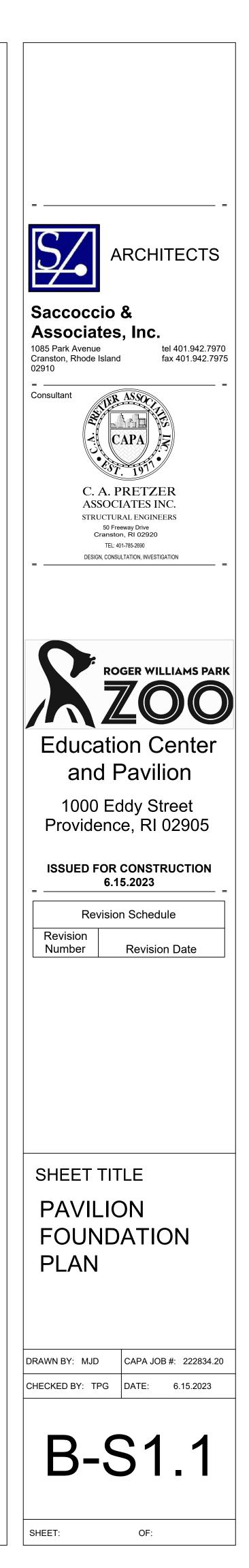


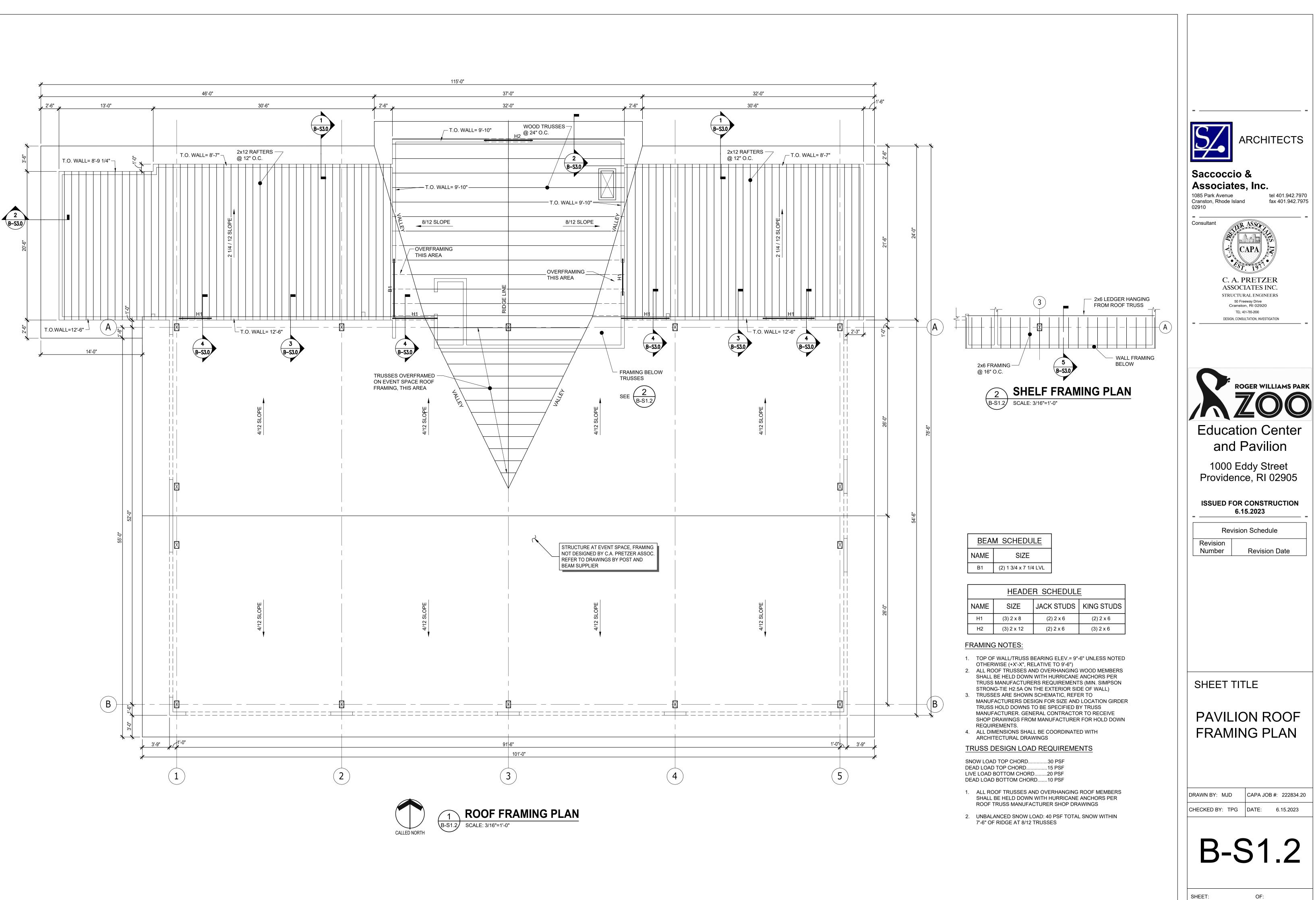




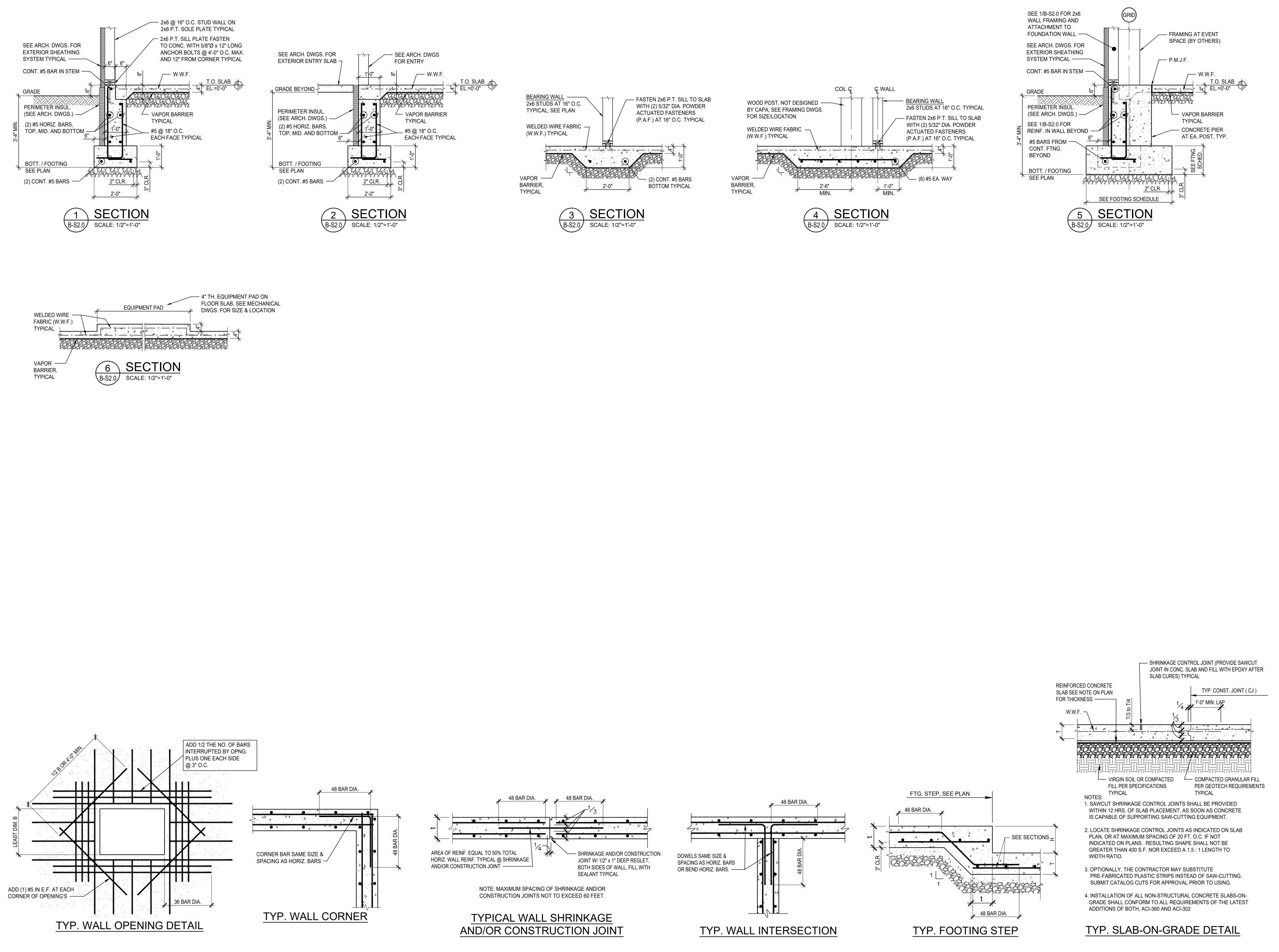
F5 5'-0 x 5'-0 1'-0" (6) #5 EACH WAY BOTTOM

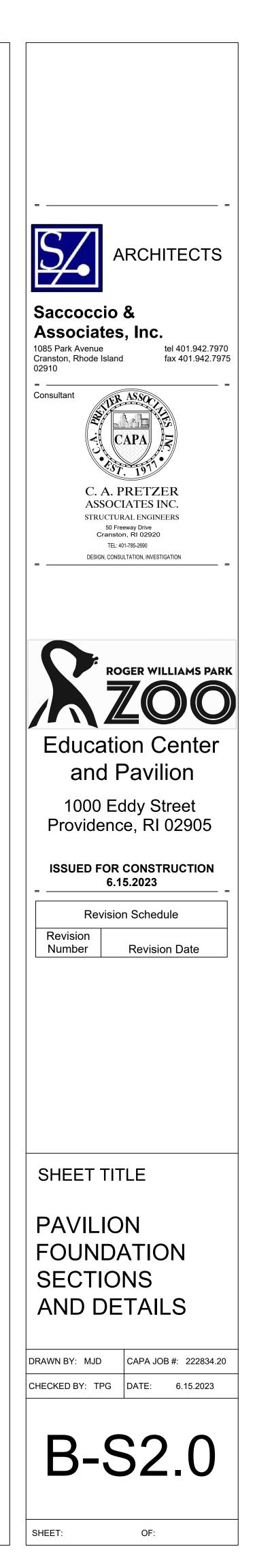
3000 PSF

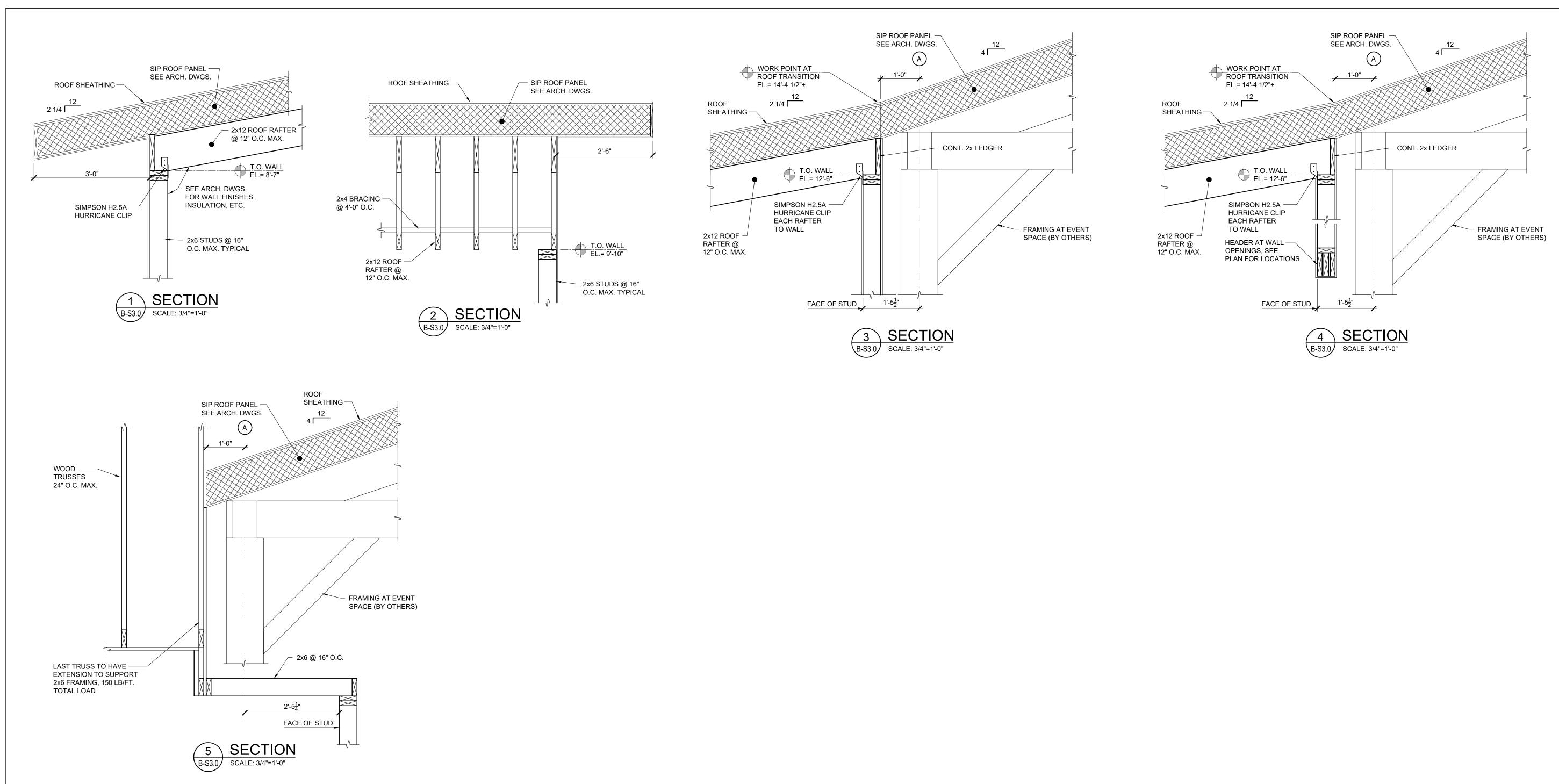


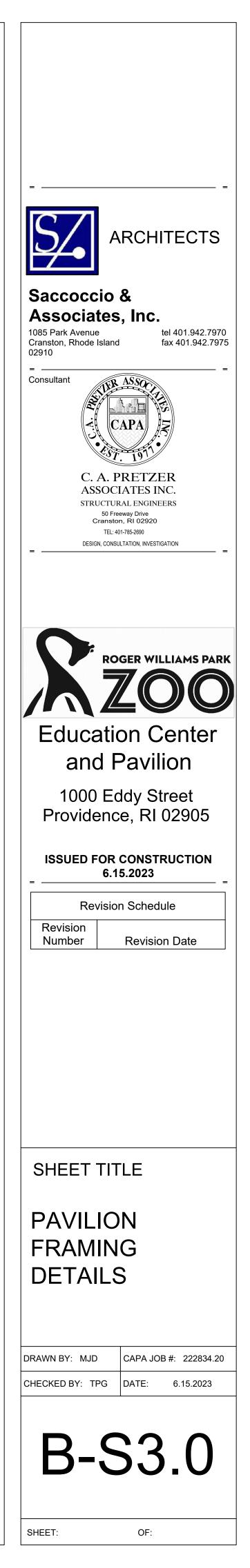


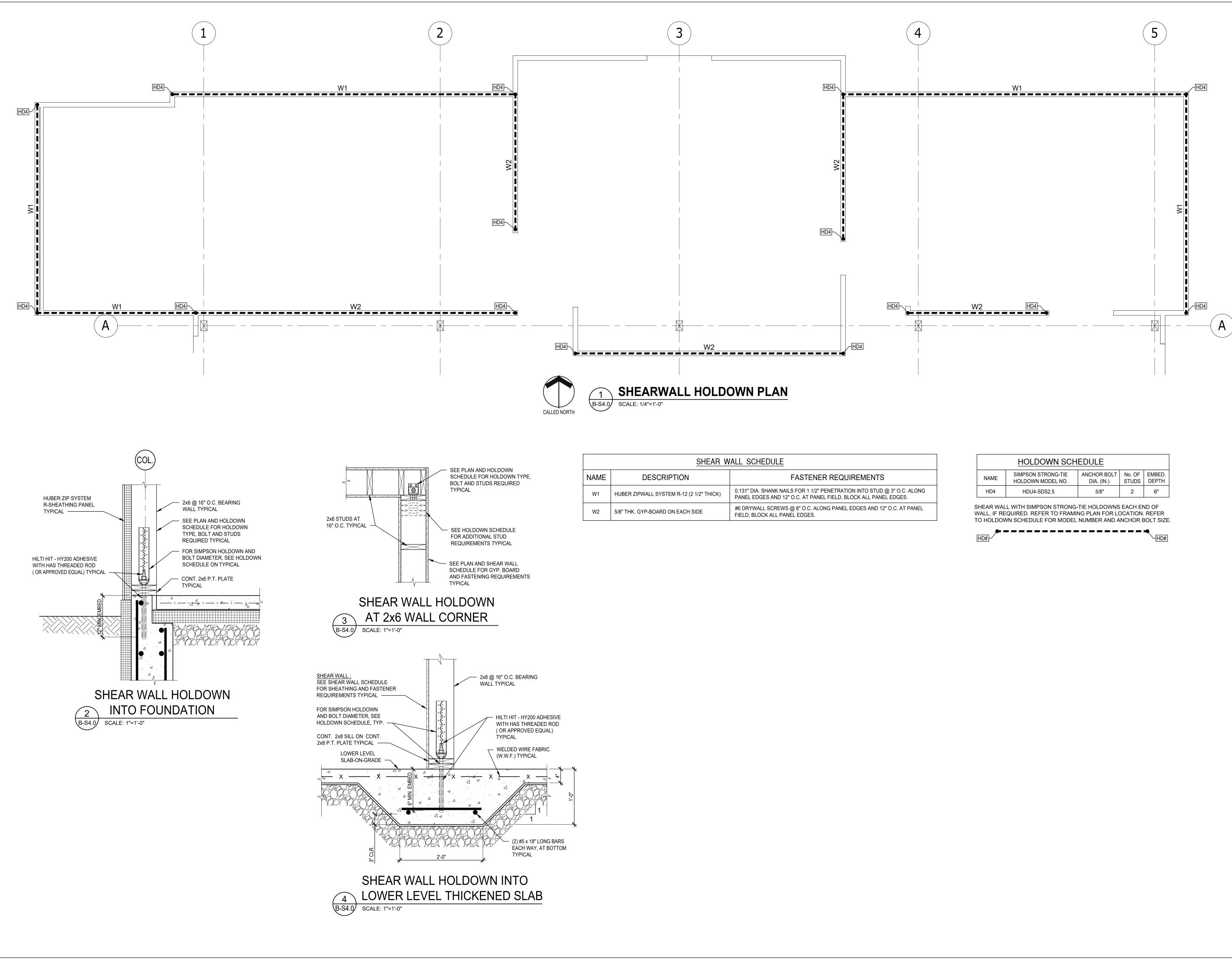




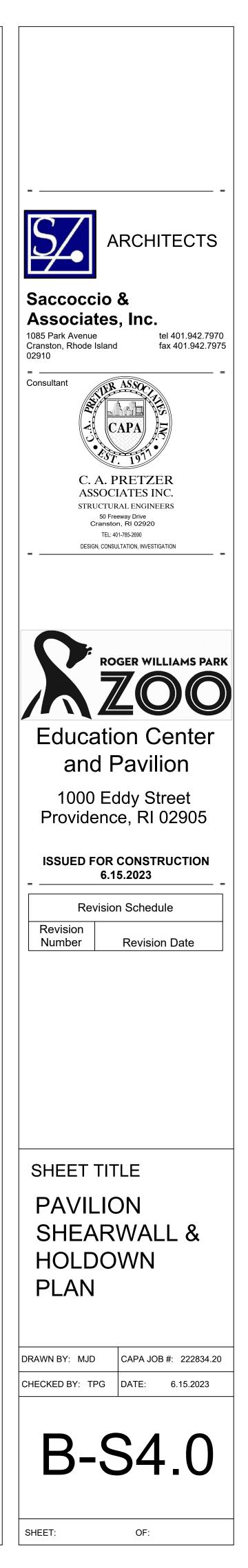








		SHEAR W	ALL SCHEDULE
EPLAN AND HOLDOWN IEDULE FOR HOLDOWN TYPE, T AND STUDS REQUIRED	NAME	DESCRIPTION	FASTENER REQUIREMENTS
ICAL	W1	HUBER ZIPWALL SYSTEM R-12 (2 1/2" THICK)	0.131" DIA. SHANK NAILS FOR 1 1/2" PENETRATION INTO STUD @ 3" O.C. ALONG PANEL EDGES AND 12" O.C. AT PANEL FIELD, BLOCK ALL PANEL 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.



			ABBRE		IS		
	ABBREVIATIONS:				S ABBREVIATIONS:		
AAV ADD'L	AUTOMATIC AIR VENT ADDITIONAL	L LAT	LENGTH LEAVING AIR TEMPERATURE	ACD ACV	AUTOMATIC CONTROL DAMPER AUTOMATIC CONTROL VALVE	LSPS LS	LOW STATIC PRESSURE SWITCH LEVEL SENSOR
AFF	ABOVE FINISHED FLOOR	LB	POUND	AMS	AIR FLOW MEASURING STATION		
AMS ALT	AIR FLOW MEASURING STATION ALTITUDE OR ALTERNATE	LF LD	LINEAR FEET LINEAR DIFFUSER	ALM ATC	ALARM AUTOMATIC TEMPERATURE CONTROL	MD	MOTORIZED DAMPER
AMP	AMPERE	LRA	LOCKED ROTOR AMPS	ATS	AIR TEMPERATURE SENSOR	NC	NORMALLY CLOSED (POWER LOSS)
AP APD	ACCESS PANEL AIR PRESSURE DROP	LVD LVG	LOUVERED DOOR LEAVING	BD	BACKDRAFT DAMPER	NO	NORMALLY OPEN (POWER LOSS)
ARCH	ARCHITECT	LWT	LEAVING LEAVING WATER TEMPERATURE	BV	BYPASS VALVE	OAH	OUTSIDE AIR HUMIDITY SENSOR
ATC ATM	AUTOMATIC TEMP. CONTROL		MAXIMUM	CO2	CARBON DIOXIDE SENSOR	OAT	OUTSIDE AIR TEMP. SENSOR
AVG	ATMOSPHERE AVERAGE	MAX MBH	THOUSAND BTH		CARBON DIOXIDE SENSOR	RH	RELATIVE HUMIDITY
		MCA	MINIMUM CIRCUIT AMPS	CT	CURRENT TRANSFORMER	0	
BDD BG	BACKDRAFT DAMPER BLAST GATE DAMPER	MD MECH	MOTOR OPERATED DAMPER MECHANICAL	CV	CONTROL VALVE	S SP	SWITCH STATIC PRESSURE SENSOR
BHP	BRAKE HORSEPOWER	MEZZ	MEZZANINE	DDC	DIRECT DIGITAL CONTROL	SD	SMOKE DETECTOR
BI BLDG	BACKWARDS INCLINED BUILDING	MFR MIN	MANUFACTURER MINIMUM	DPS DPT	DIFFERENTIAL PRESSURE SWITCH DIFFERENTIAL PRESSURE SENSOR	SPD S/S	SPEED CONTROL START/STOP
BMS	BUILDING MANAGEMENT SYSTEM	MUA	MAKE-UP AIR	DPV	DIFF. PRESSURE BYPASS VALVE		
BOD BOP	BOTTOM OF DUCT BOTTOM OF PIPE	N/A	NOT APPLICABLE	DSD DWDI	DUCT MOUNTED SMOKE DETECTOR DOUBLE WIDTH DOUBLE INLET	T TS	THERMOSTAT TEMPERATURE SENSOR
BSMT	BASEMENT	NC	NORMALLY CLOSED				
BTU BTH	BRITISH THERMAL UNIT BTU PER HOUR	NC NIC	NOISE CRITERIA NOT IN CONTRACT	ES	END SWITCH	WTS	WATER TEMPERATURE SENSOR
DIII	BIOFERHOUR	NO	NORMALLY OPEN	FM	FLOW METER/TRANSMITTER		
CA	COMPRESSED AIR	No.	NUMBER	FZ	FREEZESTAT		
CDW CENT	CONDENSER WATER CENTRIFUGAL	NOM NTS	NOMINAL NOT TO SCALE	н	HUMIDISTAT		
CF	CUBIC FEET			HEPA	HIGH EFF. PARTICULATE AIR FILTER		
CFM CL	CUBIC FEET PER MINUTE CENTERLINE	OA OD	OUTSIDE AIR OUTSIDE DIAMETER	HGB HHL	HOT GAS BYPASS HIGH HUMIDITY LIMIT SENSOR		
C.L.	COLUMN LINE	OD ODP	OPEN DRIP PROOF	НОА	HANDS-OFF AUTOMATIC SWITCH		
CND	CONDENSATE	OED	OPEN END DUCT	HS HZ	HUMIDITY SENSOR HERTZ		
CLG C.O.	CEILING OR COOLING CLEAN-OUT	OV	OUTLET VELOCITY				
CO	CARBON MONOXIDE	PD	PRESSURE DROP				
CO2 COL	CARBON DIOXIDE COLUMN	PH PHC	PHASE PREHEAT COIL		IT ABBREVIATIONS:		
CONN	CONNECTION	PBG	PLUMBING	AC	AIR CONDITIONING UNIT	GMS	GLYCOL MAKE-UP SYSTEM
CONTR CV	CONTRACTOR CONSTANT VOLUME	POS	PROVIDED BY OTHER SECTION	ACU	AC CONDENSING UNIT	GUH	GAS FIRED UNIT HEATER
00	CONSTANT VOLOME	PSI PSIA	POUNDS PER SQUARE INCH PSI ABSOLUTE	AHU AS	AIR HANDLING UNIT AIR SEPARATOR	н	HUMIDIFIER
DB	DRY BULB TEMPERATURE	PSID	PSI DIFFERENTIAL			HP	HEAT PUMP
DEG	DEGREE DIRECT	PSIG PVC	PSI GAUGE POLYVINYL CHLORIDE	B BB	BOILER BASE BOARD	HPU HV	HP CONDENSING UNIT HEATING & VENTILATING UNIT
DDC	DIGITAL CONTROL	PRV	PRESSURE REDUCING VALVE	BC	BRANCH CONTROLLER	HWC	HOT WATER COIL
DIA DIFF	DIAMETER DIFFUSER	QTY	QUANTITY	BP	BOILER PUMP	LV	
DIFF	DIFFOSER	QTT	QUANTITY	BT	BUFFER TANK	LV	LOUVER
DN	DOWN	R	RADIUS	CAC	CRITICAL COOLING AC UNIT	KEF	KITCHEN EXHAUST FAN
DP DWDI	DIFFERENTIAL PRESSURE DOUBLE WIDTH DOUBLE INLET	RA REG	RETURN AIR REGISTER		COOLING COIL CC CONDENSING UNIT	MAU	MAKE-UP AIR UNIT
DX	DIRECT EXPANSION	RET	RETURN	CEF	CEILING EXHAUST FAN	MCC	MOTOR CONTROL CENTER
EA	EACH OR EXHAUST AIR	REQD RH	REQUIRED RELATIVE HUMIDITY	CH CP	CHILLER CIRCULATOR PUMP	Р	PUMP
EAT	ENTERING AIR TEMPERATURE	RLA	RUNNING LOAD AMPS	CT	COOLING TOWER	PTAC	PACKAGED TERMINAL AC UNIT
ECH EFF	ELECTRIC CABINET HEATER	RLL	REFRIGERANT LIQUID LINE	CUH		R	RETURN GRILLE
ELEC	EFFICIENCY ELECTRICAL	RM RPM	ROOM REVOLUTIONS PER MINUTE	CWC	CHILLED WATER COIL	REF	ROOF EXHAUST FAN
ELEV	ELEVATION	RSL	REFRIGERANT SUCTION LINE	DC	DRY COOLER	RHP	RADIANT HEATING PANEL
EMER EMS	EMERGENCY ENERGY MANAGEMENT SYSTEM	SA	SUPPLY AIR	DEF DSF	DISHWASHER EXHAUST FAN DESTRATIFICATION FAN	RTU	ROOF TOP UNIT
ENT	ENTER	SCH	SCHEDULE			S	SUPPLY DIFFUSER
ESP EWT	EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE	SD SEN	SMOKE DETECTOR SENSIBLE	E EBB	EXHAUST GRILLE ELECTRIC BASE BOARD	SA SAC	SOUND ATTENUATOR SPLIT AC UNIT
EXH	EXHAUST	SHC	SENSIBLE HEAT CAPACITY	ECH	ELECTRIC CABINET HEATER	SHP	SPLIT HEAT PUMP
EXIST.	EXISTING	SP	STATIC PRESSURE	ECH EF	ELECTRIC CEILING HEATER EXHAUST FAN	SF	SUPPLY FAN
F	FAHRENHEIT OR FAN	SPECS SQ	SPECIFICATIONS SQUARE	ERV	EXHAUST FAN ENERGY RECOVERY VENTILATOR	Т	TRANSFER GRILLE
FA	FREE AREA	SF	SQUARE FEET	ET	EXPANSION TANK	UH	
FD FLA	FIRE DAMPER (ACCESS DOOR) FULL LOAD AMPS	SS STL	STAINLESS STEEL STEEL	EUH	ELECTRIC UNIT HEATER	UH UV	UNIT HEATER UNIT VENTILATOR
FLEX	FLEXIBLE	SUP	SUPPLY	F			
FPM FPS	FEET PER MINUTE FEET PER SECOND	SWSI	SINGLE WITH SINGLE INLET	FC FPB	FAN COIL UNIT FAN POWERED VAV	VAV VFD	VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE
FRP	FIBERGLASS REINFORCED PLASTIC	Т	TEMPERATURE	FT	FINTUBE		
FS FT	FLOW SWITCH FEET	TEL	TELEPHONE			WSHP	WATER SOURCE HEAT PUMP
FTR	FEET FINNED TUBE RADIATION	TEFC TEMP	TOT. ENCLOSED FAN COOLED TEMPERATURE				
		TSTAT	THERMOSTAT				
G GAL	GAS GALLONS	TOD TON	TOP OF DUCT				
GALV	GALVANIZED	TON	12,000 BTH TOP OF PIPE				
GC GPH	GENERAL CONTRACTOR GALLONS PER HOUR	тот	TOTAL				
GPM	GALLONS PER HOUR GALLONS PER MINUTE	TSP TYP	TOTAL STATIC PRESSURE TYPICAL				
GWB	GYPSUM WALL BOARD						
HB	HOSE BIBB	V VB	VENT VACUUM BREAKER				
HC	HEATING COIL	VD	VOLUME DAMPER				
HEX HGT	HEAT EXCHANGER HEIGHT	V VEL	VOLTS (ELECTRICAL)				
HP	HORSEPOWER	VEL	VELOCITY				
HR	HOUR	W	WIDTH OR WATT				
HTG HW	HEATING HOT WATER	W/ WB	WITH WET BULB TEMPERATURE				
HZ	HERTZ	WC	WATER COLUMN				
ID	INSIDE DIAMETER	WG	WATER GAUGE				
ID IN	INSIDE DIAMETER INCHES	WMS W/O	WIRE MESH SCREEN WITHOUT				
		WPD	WATER PRESSURE DROP				
KW	KILOWATT	WTD	WATER TEMPERATURE DIFF.	11			

## MECHANICAL SYMI AIR DEVICES DUCTWORK 4-WAY SUPPLY DIFFUSER STANDARD SIZE REDUCTION 3-WAY SUPPLY DIFFUSER ASYMMETRICAL $\ge$ TRANSITION 2-WAY SUPPLY 2-WAY SUPI DIFFUSER SQUARE-TO-ROUND TRANSITION TRANSITION 2-WAY CORNER SUPPLY DIFFUSER \_\_\_\_\_ STANDARD BRANCH \_\_\_\_\_ -H TAKE-OFF 1-WAY SUPPLY 1-WAY SUPF DIFFUSER \_\_\_\_\_ ROUND BRANCH \_\_\_\_ TAKE-OFF 20000 STANDARD TEE · 200000 STANDARD TEE WITH \_\_\_\_ EXHAUST REGISTER TURNING VANES \_ SIDE WALL SUPPLY SLOPED DUCT RISE \_\_\_\_\_ \_\_\_\_\_ SIDE WALL RETURN OR EXHAUST GRILLE OR \_\_\_\_ FIRE DAMPER ACCESS DOOR \_\_\_\_\_ \_\_\_\_\_ GREASE DUCT \_\_\_\_ ACCESS DOOR LEGEND NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED. ABSENCE OF A SYMBOL ON THE DRAWINGS DOES NOT NECESSARILY MEAN

# GENERAL CONSTRUCTION NOTES

IT IS NOT REQUIRED. REFER TO DETAILS &

SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF WORK REQUIRED.

- 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.
- 16. THIS CONTRACTOR, PRIOR TO SUBMITTING HIS BID, SHALL VISIT THE PROJECT SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. REQUESTS FOR COMPENSATION 17. 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 18. DRAWINGS REFLECT THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND SITE INVESTIGATIONS. 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 19. 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. 20. PROVIDE ALL DUCT AND PIPE TRANSITIONS REQUIRED FOR CONNECTION TO EQUIPMENT.
- 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.
- 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.
- 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. 25.
- 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.
- 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.

GENERAL RENOVATION NOTES:

- . ALL SHUT DOWNS OF EXISTING SYSTEMS SHALL BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK.
- 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.

8

10.

- 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.
- 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.
- 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

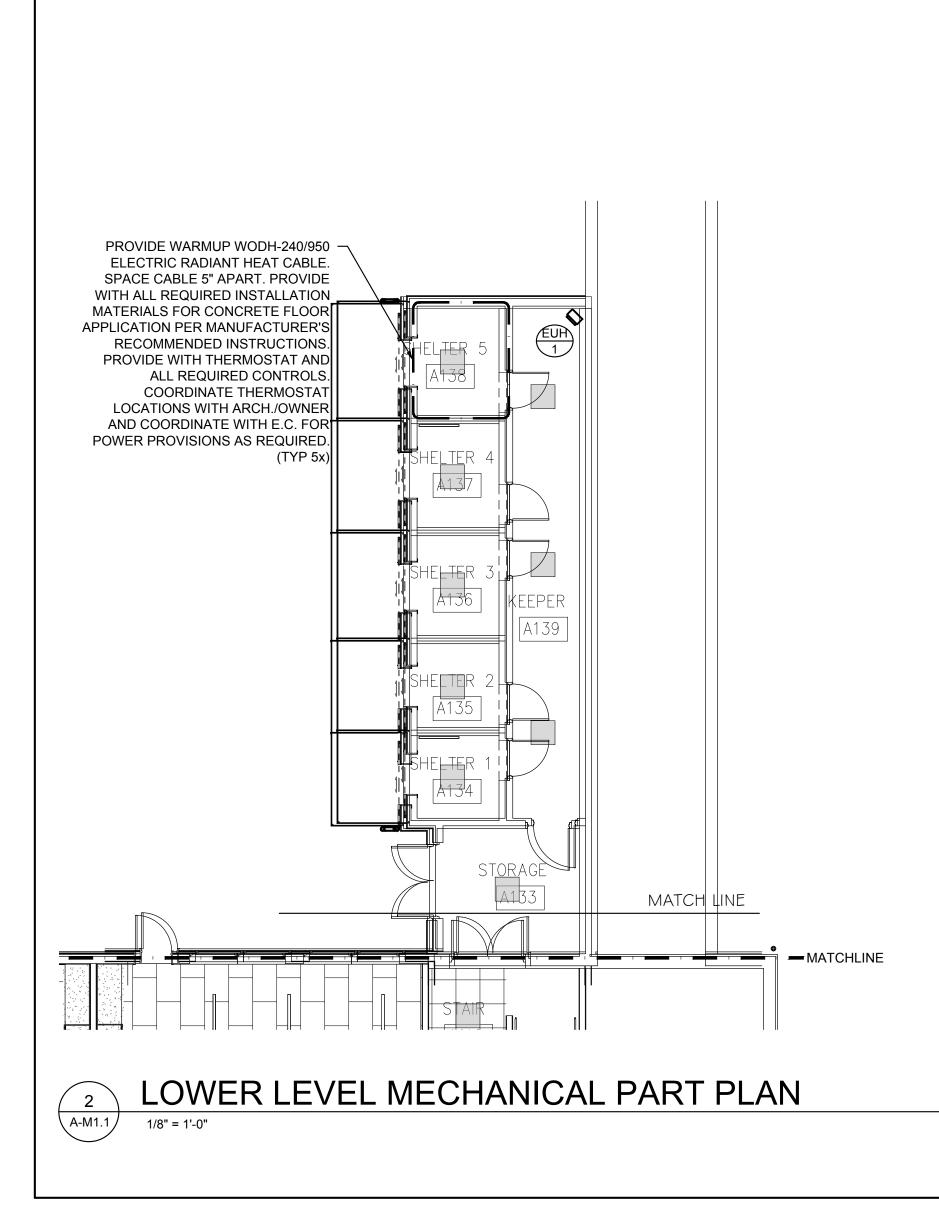
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7	STANDARD SQUARE ELBOW	<b>—</b>	DSD	DUCT MOUNTED SMOKE DETECTOR
Z	SQUARE ELBOW WITH TURNING			
A	VANES STANDARD RADIUS ELBOW (R=D)			AIR DAMPERS MANUALLY ADJUSTABLE
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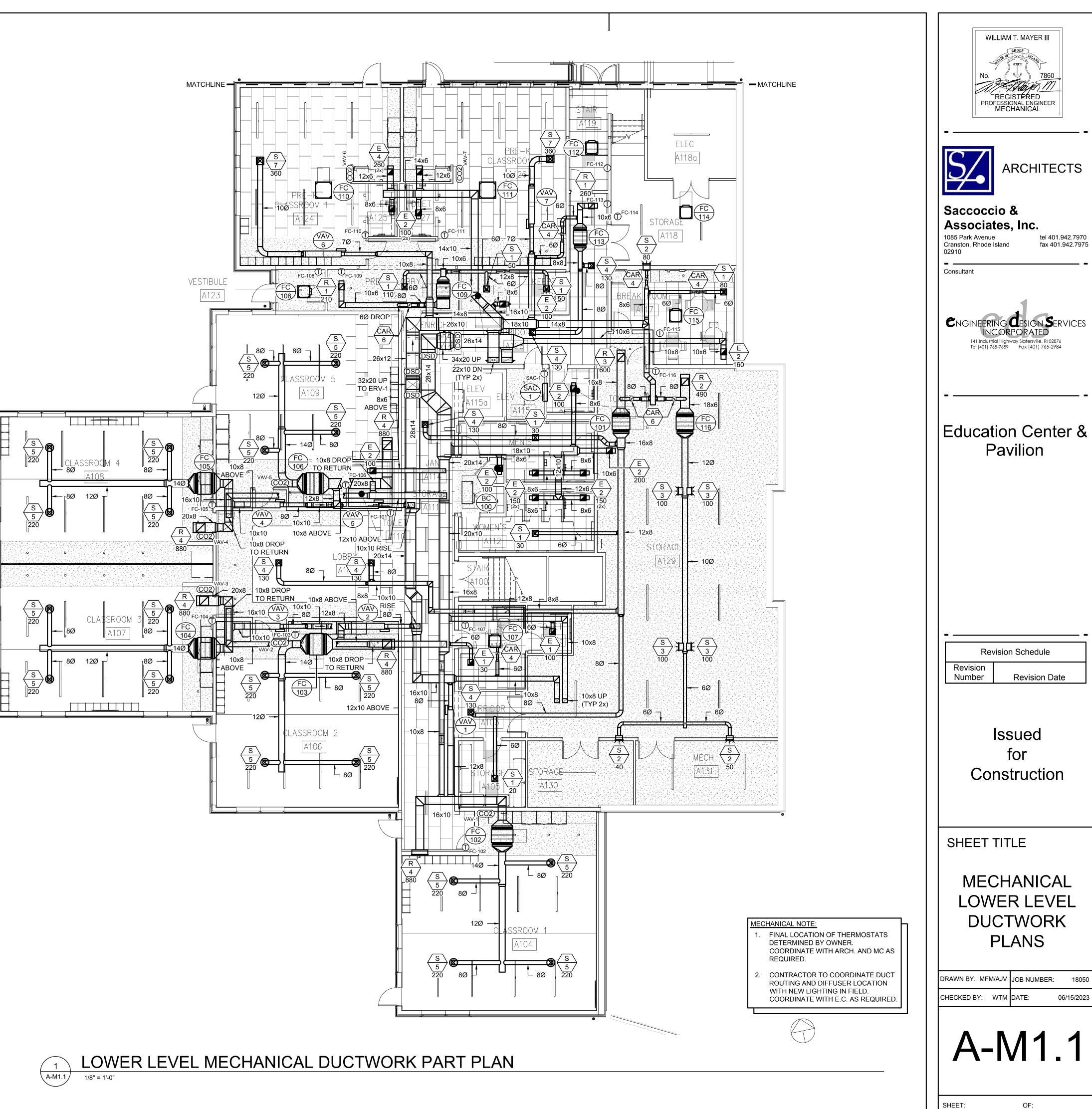
11. THE FIRE PROOFING OF THE EXISTING STRUCTURE IS NOT TO BE REMOVED FOR THE INSTALLATION OF HANGERS, SUPPORTS AND DUCTWORK ETC. IF FIRE PROOFING IS DAMAGED, IT SHALL BE REPAIRED AT THE EXPENSE OF THE TRADE.

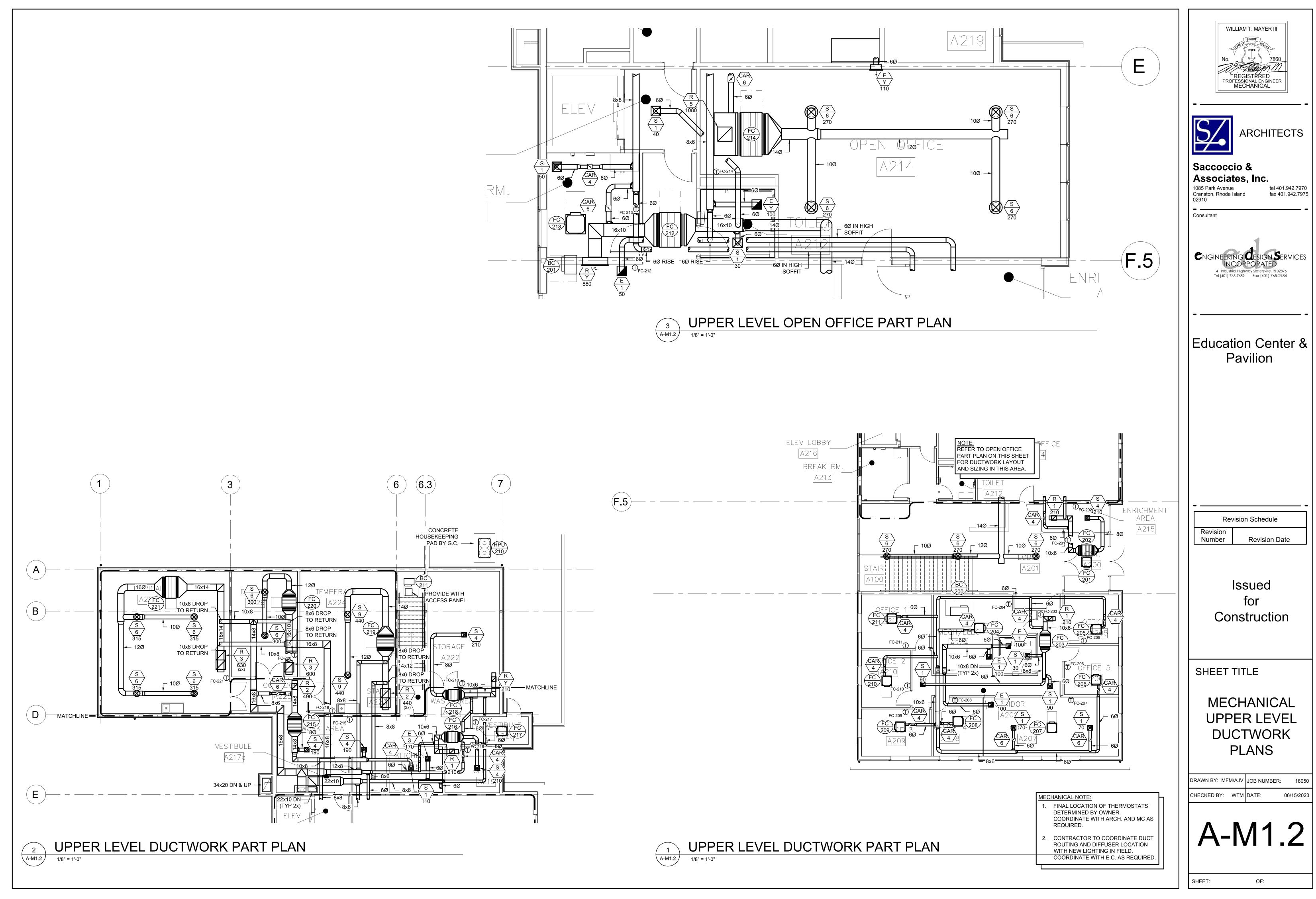
WILLIAM T. MAYER III WILLIAM T. MAYER III
Signature       ARCHITECTS         Saccoccio &       Saccoccio &         Associates, Inc.       1085 Park Avenue       tel 401.942.7970         Cranston, Rhode Island       fax 401.942.7975
02910 Consultant
CNGINEERING CLESIGN SERVICES INCORPORATED 141 Industrial Highway Slatersville, RI 02876 Tel (401) 765-7659 Fax (401) 765-2984
Education Center & Pavilion
Revision Schedule Revision Number Revision Date
Issued for Construction
SHEET TITLE
MECHANICAL LEGENDS & NOTES
DRAWN BY: MFM/AJV JOB NUMBER: 18050 CHECKED BY: WTM DATE: 06/15/2023
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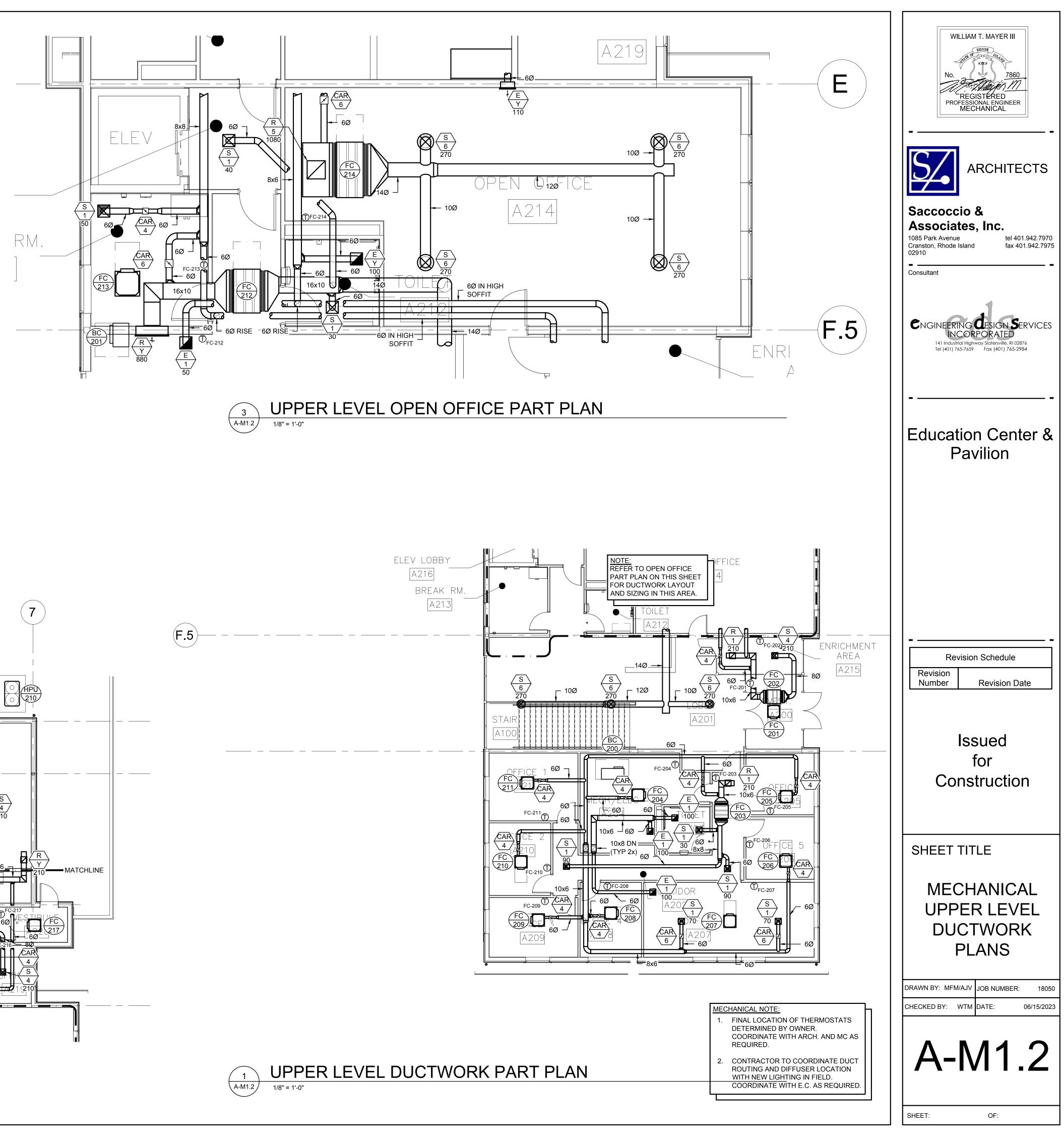
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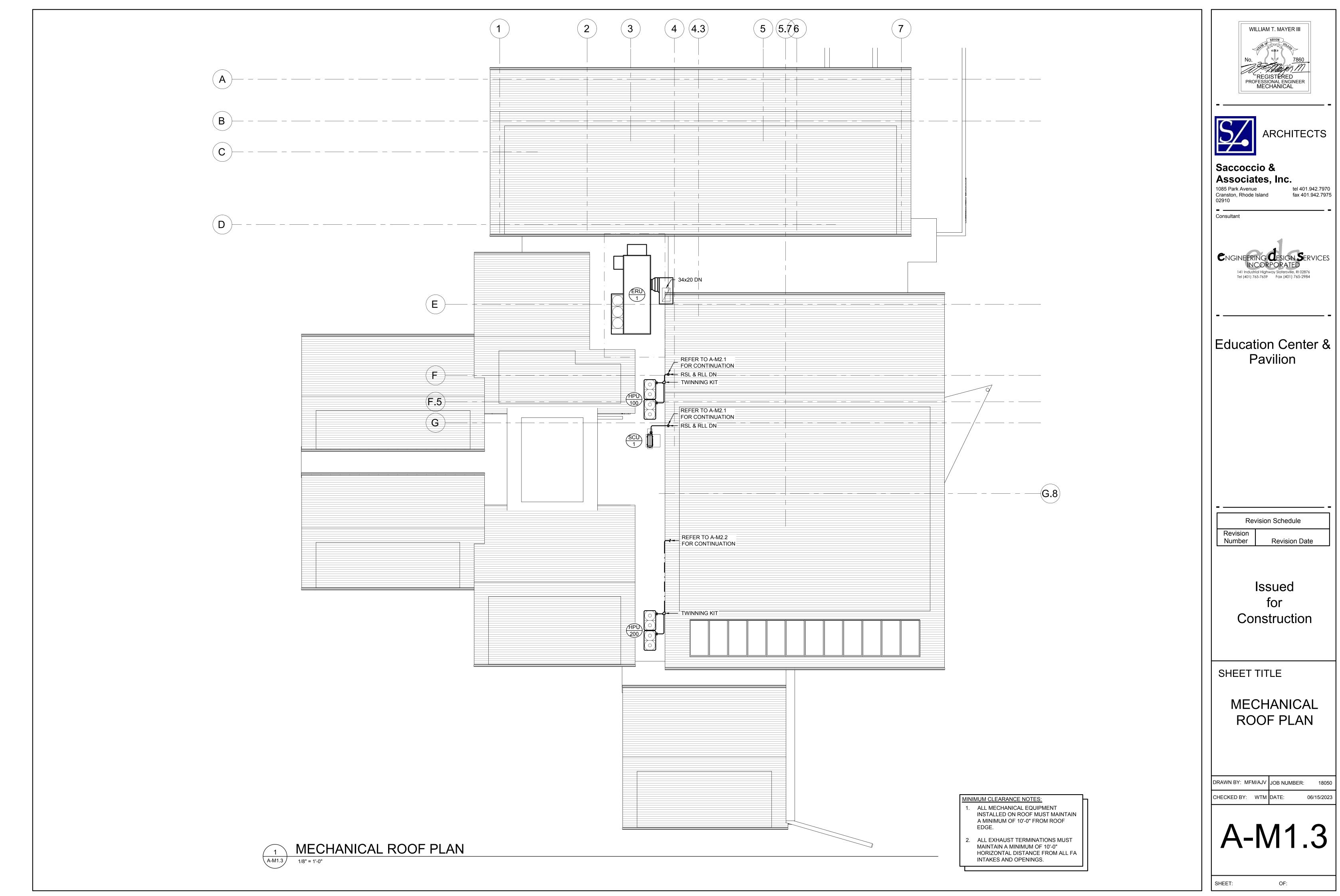
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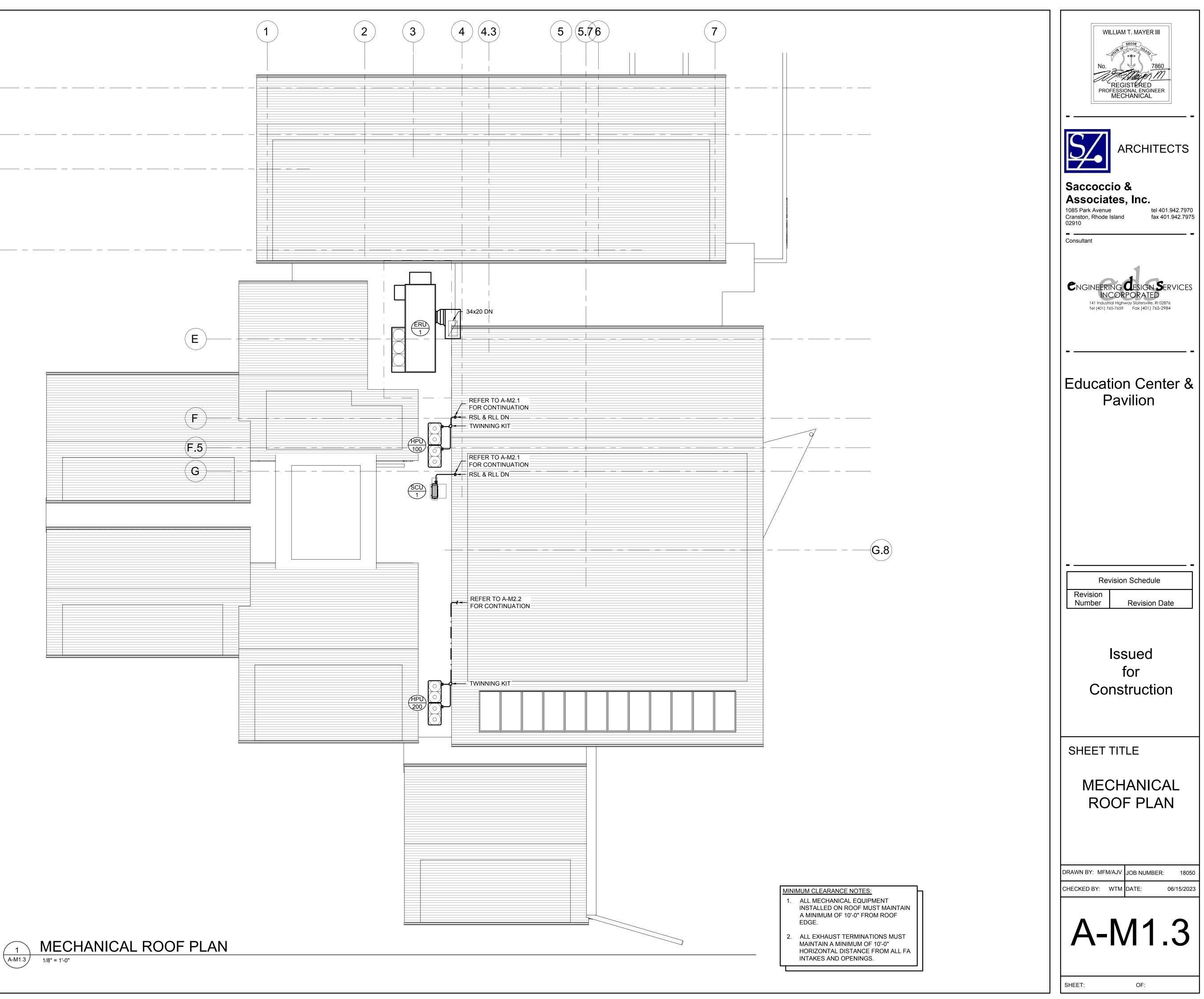


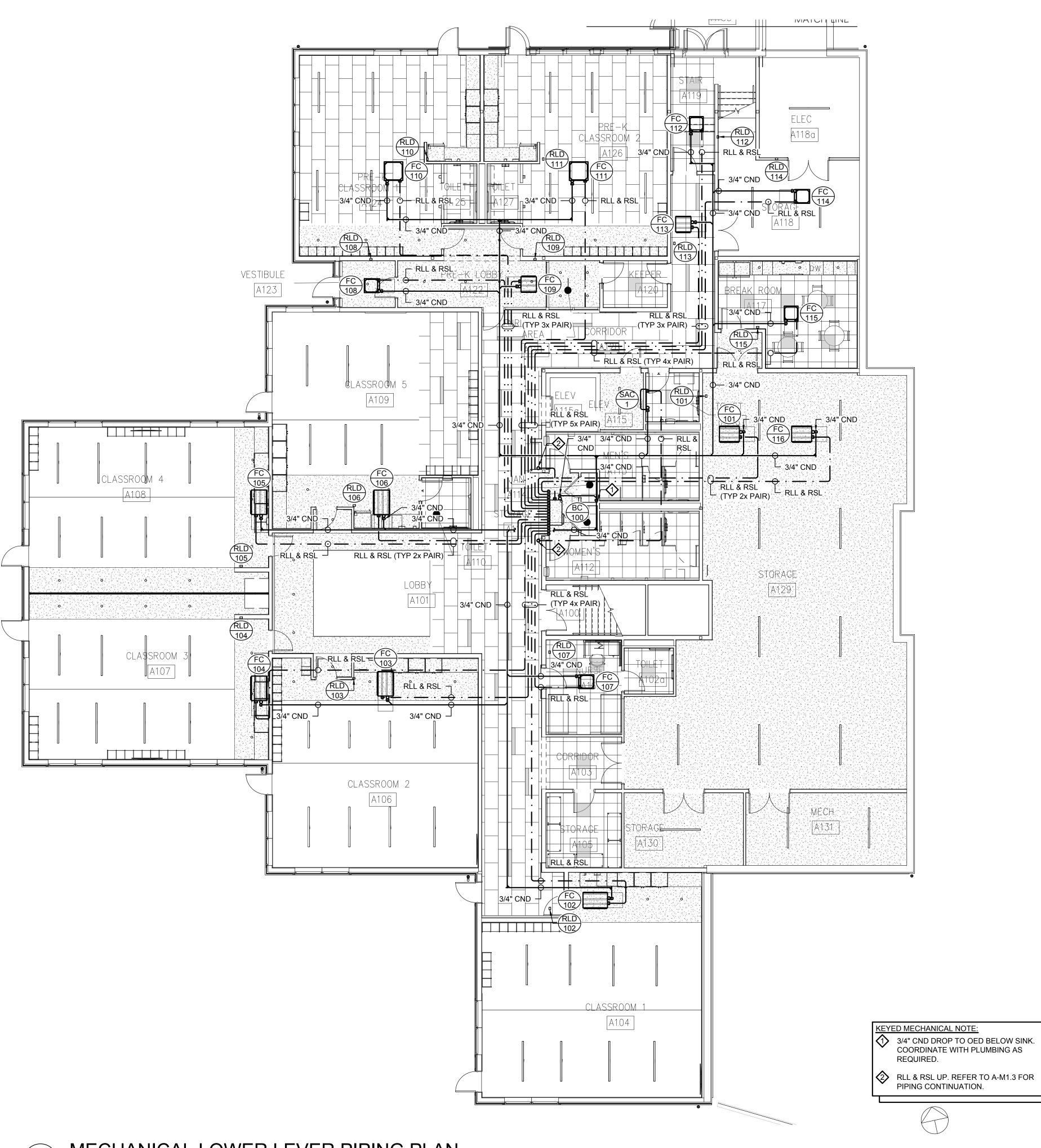






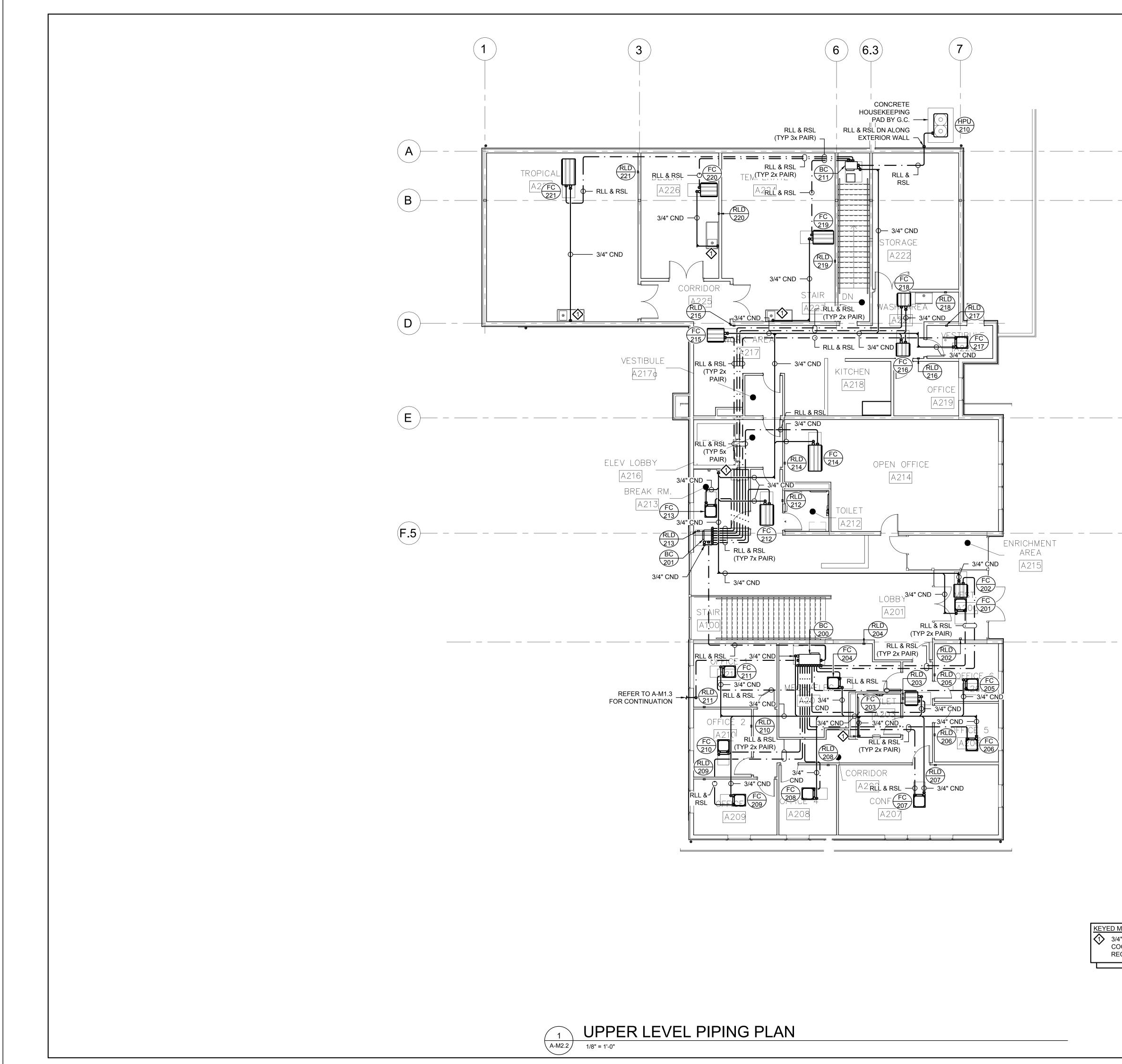




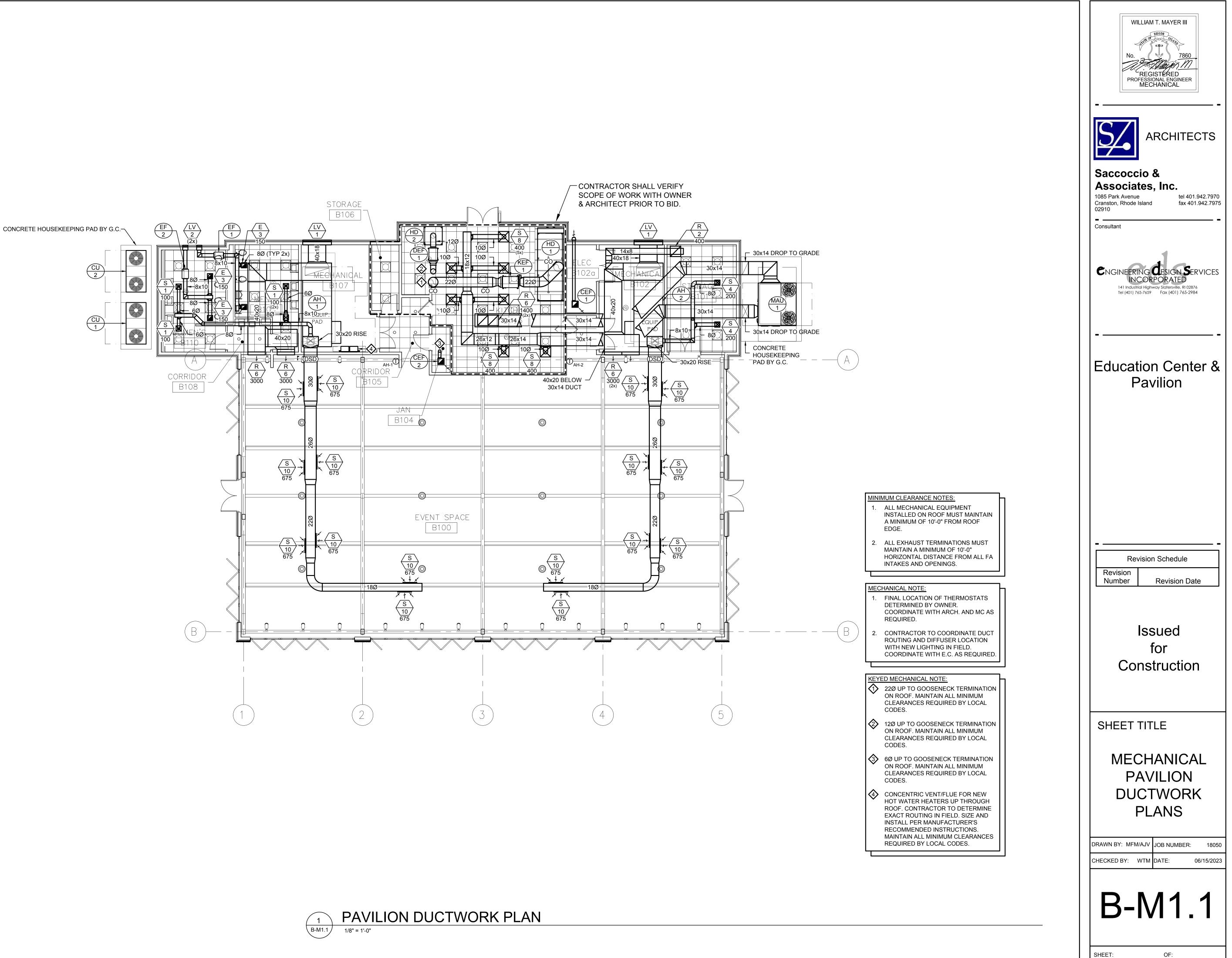




WILLIAM T. MAYER III         No.         REGISTERED         PROFESSIONAL ENGINEER         BRECHANICAL             Marchitecter             ARCHITECTS             Saccocia & Associates, Inc.             N85 Park Avenue Cranston, Rhode Island         M85 Park Avenue Cransuton, Rhode Island         El 401.942.7970 fax 401.942.7970    Consultant
ENGINEERING DESIGN SERVICES Incorporated 141 Industrial Highway Slatersville, RI 02876 Tel (401) 765-7659 Fax (401) 765-2984
Education Center & Pavilion
Revision Schedule
NumberRevision DateIssued for Construction
SHEET TITLE MECHANICAL LOWER LEVEL PIPING PLANS
DRAWN BY: MFM/AJV JOB NUMBER: 18050 CHECKED BY: WTM DATE: 06/15/2023 AA-N221



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- — (E)	CORPORTING CORPORATION SCIENCES IN Industrial Highway Statersville, RI 02876 Tel (401) 765-7659 Tax (401) 765-2984
(F.5)	
G.8	Revision Schedule Revision Number Revision Date
	for Construction SHEET TITLE
	MECHANICAL UPPER LEVEL PIPING PLAN
MECHANICAL NOTE: 4" CND DROP TO OED BELOW SINK. DORDINATE WITH PLUMBING AS EQUIRED.	DRAWN BY: MFM/AJV JOB NUMBER: 18050 CHECKED BY: WTM DATE: 06/15/2023
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	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	EDB °F	LDB °F	ĸw	MBH	ATR °F	MCA	MOP	VOLTAGE	(LBS)	NOTED
	1.0	1461	5	81.2/67.3	50.7/43.2	PACKAGED HP	1	254.0	173.0	52.0	51.8	102.8	PACKAGED HP	92.4	50.7	66.6	41.0	113.8	24.0	246.9	250.0	208/3/60	5200	1,2,3,4,5,6,7,8,9,10

OR, MODULATING WHEEL FROST CONTROL, LOW LEAKAGE DAMPERS, & MERV

ROOF CURB.

EAT COIL, ELECTRO FIN COATING ON ALL COILS, UV LIGHTS & BIPOLAR

X HEATING COIL. REFER TO COIL SCHEDULE FOR ADDITIONAL INFORMATION.

SYMBOL CONDENSER BRANCH MODEL TYPE					NOMINAL	AIRFLOW	OUTDOOR		COOLIN	IG DATA		HEATIN	NG DATA	El	LECTRICAL	_ DATA	APROX.
SYMBOL	SYMBOL	CONTROLLER	MODEL	IYPE	CAPACITY	CFM	AIR CFM	RA °Fdb	RA °FwB	TOTAL MBH	SENS. MBH	RA °Fdb	MBH	MCA	MOP	VOLTAGE	WEIGHT (LBS)
FC-101	HPU-100	BC-100	PEFY-P18NMAU-E4	MED. STATIC DUCTED	1.5 T	600	180	76.0	67.0	17.2	11.1	70.0	15.1	2.9	15	208/1/60	60
FC-102	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	470	76.0	67.0	28.6	17.6	70.0	25.6	2.9	15	208/1/60	70
FC-103	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	450	76.0	67.0	28.6	17.6	70.0	25.6	2.9	15	208/1/60	70
FC-104	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	450	76.0	67.0	28.6	17.6	70.0	25.6	2.9	15	208/1/60	70
FC-105	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	450	76.0	67.0	28.6	17.6	70.0	25.6	2.9	15	208/1/60	70
FC-106	HPU-100	BC-100	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	450	76.0	67.0	28.6	17.6	70.0	25.6	2.9	15	208/1/60	70
FC-107	HPU-100	BC-100	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	30	76.0	67.0	4.8	3.5	70.0	4.2	0.2	15	208/1/60	40
FC-108	HPU-100	BC-100	PLFY-P12NFMU-E	CEILING CASSETTE	1.0 T	330	0	76.0	67.0	11.4	6.7	70.0	10.2	0.3	15	208/1/60	40
FC-109	HPU-100	BC-100	PEFY-P06NMAU-E4	MED. STATIC DUCTED	0.5 T	210	140	76.0	67.0	5.7	4.5	70.0	5.0	1.2	15	208/1/60	50
FC-110	HPU-100	BC-100	PLFY-P24NEMU-E	CEILING CASSETTE	2.0 T	670	0	76.0	67.0	22.9	13.9	70.0	20.3	0.5	15	208/1/60	60
FC-111	HPU-100	BC-100	PLFY-P24NEMU-E	CEILING CASSETTE	2.0 T	670	0	76.0	67.0	22.9	13.9	70.0	20.3	0.5	15	208/1/60	60
FC-112	HPU-100	BC-100	PLFY-P12NFMU-E	CEILING CASSETTE	1.0 T	330	0	76.0	67.0	11.4	6.7	70.0	10.2	0.3	15	208/1/60	40
FC-113	HPU-100	BC-100	PEFY-P06NMAU-E4	MED. STATIC DUCTED	0.5 T	210	40	76.0	67.0	5.7	4.5	70.0	5.0	1.2	15	208/1/60	50
FC-114	HPU-100	BC-100	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	0	76.0	67.0	4.8	3.5	70.0	4.2	0.2	15	208/1/60	40
FC-115	HPU-100	BC-100	PLFY-P08NFMU-E	CEILING CASSETTE	0.9 T	280	0	76.0	67.0	7.6	5.0	70.0	6.8	0.3	15	208/1/60	40
FC-116	HPU-100	BC-100	PEFY-P15NMAU-E4	MED. STATIC DUCTED	1.3 T	490	190	76.0	67.0	14.3	8.2	70.0	12.8	2.9	15	208/1/60	60
FC-201	HPU-200	BC-200	PLFY-P12NFMU-E	CEILING CASSETTE	1.0 T	330	0	76.0	67.0	11.4	6.7	70.0	10.3	0.3	15	208/1/60	40
FC-202	HPU-200	BC-200	PEFY-P06NMAU-E4	MED. STATIC DUCTED	0.5 T	210	50	76.0	67.0	5.7	4.5	70.0	5.0	1.2	15	208/1/60	50
FC-203	HPU-200	BC-200	PEFY-P06NMAU-E4	MED. STATIC DUCTED	0.5 T	210	20	76.0	67.0	5.7	4.5	70.0	5.0	1.2	15	208/1/60	50
FC-204	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	76.0	67.0	4.8	3.5	70.0	4.3	0.2	15	208/1/60	40
FC-205	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	76.0	67.0	4.8	3.5	70.0	4.3	0.2	15	208/1/60	40
FC-206	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	76.0	67.0	4.8	3.5	70.0	4.3	0.2	15	208/1/60	40
FC-207	HPU-200	BC-200	PLFY-P24NEMU-E	CEILING CASSETTE	2.0 T	670	0	76.0	67.0	22.8	13.8	70.0	20.6	0.5	15	208/1/60	60
FC-208	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	76.0	67.0	4.8	3.5	70.0	4.3	0.2	15	208/1/60	40
FC-209	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	76.0	67.0	4.8	3.5	70.0	4.3	0.2	15	208/1/60	40
FC-210	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	76.0	67.0	4.8	3.5	70.0	4.3	0.2	15	208/1/60	40
FC-211	HPU-200	BC-200	PLFY-P05NFMU-E	CEILING CASSETTE	0.4 T	230	20	76.0	67.0	4.8	3.5	70.0	4.3	0.2	15	208/1/60	40
FC-212	HPU-200	BC-201	PEFY-P30NMAU-E4	MED. STATIC DUCTED	2.5 T	880	130	76.0	67.0	34.2	22.8	70.0	30.5	2.9	15	208/1/60	70
FC-213	HPU-200	BC-201	PLFY-P08NFMU-E	CEILING CASSETTE	0.9 T	280	0	76.0	67.0	7.6	5.0	70.0	6.9	0.3	15	208/1/60	40
FC-214	HPU-200	BC-201	PEFY-P36NMAU-E4	MED. STATIC DUCTED	3.0 T	1080	110	76.0	67.0	34.2	22.8	70.0	30.5	4.3	15	208/1/60	90
FC-215	HPU-200	BC-201	PEFY-P15NMAU-E4	MED. STATIC DUCTED	1.3 T	490	150	76.0	67.0	14.3	9.2	70.0	13.0	2.9	15	208/1/60	60
FC-216	HPU-200	BC-201	PEFY-P06NMAU-E4	MED. STATIC DUCTED	0.5 T	210	20	76.0	67.0	5.7	4.5	70.0	5.0	1.2	15	208/1/60	50
FC-217	HPU-200	BC-201	PLFY-P08NFMU-E	CEILING CASSETTE	0.9 T	280	0	76.0	67.0	7.6	5.0	70.0	6.9	0.3	15	208/1/60	40
FC-218	HPU-200	BC-201	PEFY-P06NMAU-E4	MED. STATIC DUCTED	0.5 T	210	30	76.0	67.0	5.7	4.5	70.0	5.0	1.2	15	208/1/60	50
FC-219	HPU-210	BC-211	PEFY-P36NMAU-E4	MED. STATIC DUCTED	3.0 T	1270	360	76.0	67.0	33.2	27.3	70.0	30.0	4.3	15	208/1/60	100
FC-220	HPU-210	BC-211	PEFY-P18NMAU-E4	MED. STATIC DUCTED	1.5 T	600	150	76.0	67.0	16.6	13.2	70.0	15.0	3.0	15	208/1/60	60

NOTES:

1. PROVIDE WITH DISCONNECTS. REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.

2. PROVIDE WITH MICRO CONDENSATE PUMP.

3. REFER TO MANUFACTURERS' GUIDELINES FOR LINE SIZING, CONTROLS WIRING, AND ALL INSTALLATION INSTRUCTIONS. 4. PROVIDE WITH SPACE MOUNTED THERMOSTAT OR SENSOR AS INDICATED ELSEWHERE ON PLANS.

	VRV HEAT PUMP SCHEDULE (BASED ON MITSUBISHI)																	
	ASSOCIATED		NOMINAL	CAPACITY	COC	LING DATA	HEA	TING DATA		EFFECI	ENCIES		E	LECTRICA	AL DATA		APROX.	
SYMBOL	BC	MODEL	COOLING	HEATING	OAT °F	TOTAL MBH	OAT °F	TOTAL MBH	EER	IEER	COP	SCHE	CONNECTIONS	MCA	MOCP	VOLTAGE	WEIGHT (LBS)	NOTES
HPU100	BC-100	PURY-EP288TSNU-A-BS	288.0	323.0	100.0	272.8	0.0	243.2	11.5	24.1	3.46	24.5	2	49.0/49.0	80/80	208/3/60	1400	1,2,3,4,5,6,7
HPU-200	BC-200,201	PURY-EP192TSNU-A-BS	192.0	215.0	100.0	179.7	0.0	161.9	14.1	31.8	3.99	28.0	2	31.0/31.0	45/45	208/3/60	1300	1,2,3,4,5,6,7
HPU-210	BC-211	PURY-EP72TNU-A	72.0	80.0	100.0	72.1	0.0	65.3	14.4	27.9	4.09	-	2	23.0	35	208/3/60	600	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	H CC	NT		
SYMBOL	MODEL	TYPE	ASSO HEAT		
BC-100	CMB-P1016NU-JA1	MAIN	HPU		
BC-200	CMB-P1016NU-JA1	MAIN	HPU		
BC-201	CMB-P108NU-KB1	SUB	HPU		
BC-211	CMB-P104NU-J1	MAIN	HPU		
<ol> <li>PROVI</li> <li>PROVI</li> <li>PROVI</li> <li>REFER</li> </ol>	DE WITH DISCONNECT DE WITH FULL PORT B DE WITH CONDENSATE TO MANUFACTURERS ECTED CAPACITY INCL	ALL VALVE E PUMP. S' GUIDELIN	S. IES FOR		

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M3.1
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ſRO	LLER	SCHE	DUL	E (BAS	ED ON MITS	UBISHI)	
DCIATED	ASSOCIATED	CONNECTED		ELECTR	ICAL DATA	APROX.	NOTEO
T PUMP	MAIN CONTROLLER	CAPACITY (MBH)	PORTS	MCA	VOLTAGE	WEIGHT (LBS)	NOTES
20-100	-	272.8	16	1.6	208/1/60	150	1,2,3,4
vU-200	-	179.7	16	1.6	208/1/60	150	1,2,3,4,5
PU-200	BC-200	100.9	8	0.7	208/1/60	70	1,2,3,4
PU-210	-	78.0	4	0.4	208/1/60	60	1,2,3,4

TRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.

OR LINE SIZING, CONTROLS WIRING, AND ALL INSTALLATION INSTRUCTIONS. CIATED SUB CONTROLLERS.

		COND	ENSING U	NIT SC	CHEDL	JLE (BASE	ED ON TRANE)										AIR	HAN[	OLINO	g uni	T SCI	HEC	ULE	(BASED ON	I TRANE)							
	EVAPORATOR	N	OMINAL COMPRESSO	R DATA CON	NDENSER FAN I	DATA ELECT	TRICAL DATA						ESP E4		COOLING	G PERFORM	MANCE DATA				HEATING	G PERFOR	RMANCE DATA	A		CIRCUIT	2 GAS HE	AT DATA	ELECTRI	ICAL DATA	APRO	
SYMBOL	SYMBOL	MODEL CA	APACITY NO. NO. 1 RLA	NO. 2 RLA NO.	NO. 1 FLA NO.	. 2 FLA MCA N	IOP VOLTAGE	NOTES	SYMBOL	MODEL	CAPACITY	CFM CFM	(IN) RF	AN PM TOTAL MBH	SENS. MBH	EDB °F	EWB °F LDB °F	LWB °F AP		ИВН ОUTPU		N MBH	MIN IN. W.C.	MAX IN. W	C. TURNDOW	'N FLA	MCA \	OLTAGE FAN	N HP FL	A VOLTAC	E (LBS)	
CU-1	AHU-1 TTA	18043CAA**BS01 15	5.0 TONS 2 27.6	22.4 2	4.3	4.3 66.0 9	90.0 208/3/60	1,2	AHU-1	CSAA012	15.0 TONS	6000 1200	4.2 12	262 249.0	164.5	80.0	67.0 55.0	53.5 0.82	IN. 450.	36	0.0 5	53.0	7.0	14.0	10:1	6.52	8.15	208/1/60 7	.5 23.	.3 208/3/6	3000	) 1,2,3
CU-1	AHU-1 TTA	18043CAA**BS01 15	0.0 TONS 2 27.6	22.4 2	4.3	4.3 66.0 9	90.0 208/3/60	1,2	AHU-2	CSAA012	15.0 TONS	6000 1200	4.2 12	262 249.0	164.5	80.0	67.0 55.0	53.5 0.82	IN. 450.	0 36	0.0 5	53.0	7.0	14.0	10:1	6.52	8.15	208/1/60 7	.5 23.	.3 208/3/6	3000	1,2,3
	OVIDE WITH DISCONN OVIDE WITH HAIL GUA	RD AND CRANKCAS	ECTRICAL PLANS FOR RATE HEATER.			2.			2. PR 3. PR 4. PR 5. PR	OVIDE WITH OVIDE WITH OVIDE WITH OVIDE WITH	I SUPPLY AIF I FULL ENTH I FIELD-POW I CONDENSA	TEMPERATUR LPY ECONOM ERED CONVEN	RE SENSO IIZER, CO2 IIENCE OU CONDENS	FION WITH E.C. DR (SAT), MIXED A 2 CONTROL, HOT UTLET. SATE NEUTRALIZ	GAS REHEAT, A		<b>v</b> <i>y</i> ,	EMPERATURE T	HERMOSTAT	, AND SUPPL	Y FAN STATU	S SENSOF	٦.									
SYMBOL	MANUFACTURER	MODEL	TYPE	THROW	CFM	NECK SIZE	NOTES									KI.	TCHEN	I MAK	E UP	AIR I	JNIT	SCF	IEDU		ASED ON CAPT	IVEAIRE)						
S-1	PRICE	SPD	SQUARE PLAQUE	SEE PLANS	20-110	6Ø	1,2,3				SSOCIATED			COOLING PERF	ORMANCE DAT	ТА		HEATIN		IANCE DATA			RFH		RMANCE DAT	4	<u> </u>	FAN	FLE			ROX.
S-2	PRICE	520	LOUVERED GRILLE	DOUBLE DEFL.	40-80	6x6	1,2,6	SYMBOL	MOD		EXHAUST	EDB °F EWB	°FIDB				NSIBLE MBH F	UEL MIN. INW	1	i i	ATR °F L	DB °F I	WB °F DESI			NOISTUR REMOVAL R	E CF	M HP ES				
S-3	PRICE	HCD	HIGH CAPACITY DRUM	DOUBLE DEFL.	100	6x10	1,2,6	MAU-1	CASRTU3-I.3	0 19 15T	FAN KEF-1		) 55.3					NG 7.0	300.0	243.0				50.5	129.6	REMOVAL R 56.0 LBS/H		_		70.0 208	· ·	·
S-4	PRICE	SPD	SQUARE PLAQUE	4-WAY	130-210	8Ø	1,2,3		CA3R103-1.3	JU-10-151		95.0 75.0	55.3	5 55.5 55	4 105.0	0	120.9	NG 7.0	300.0	243.0	80.0	72.0	01.0	50.5	129.0	50.0 LD3/r	IR 200	) 3.0 1.	.0 04.3	70.0 208	5/60 20	10
S-5	PRICE	RCD	ROUND CONE	RADIAL	220	8Ø	1,2,7	NOTES: 1. Pl	ROVIDE WITH I	DISCONNEC	T. COORDIN	ATE WITH E.C.																				
S-6	PRICE	RCD	ROUND CONE	RADIAL	270-315	10Ø	1,2,7	2. PI	ROVIDE WITH V	/FD AND IN	VERTER DUT	Y MOTOR.																				
S-7	PRICE	SPD	SQUARE PLAQUE	4-WAY	360	10Ø	1,2,3	3. R	FER TO CAPT	IVEAIRE DR	AWINGS FOR	R ADDITIONAL A	ACCESSO	ORIES AND NOTES																		
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													KITC					N SC							
S-10	PRICE	HCD	HIGH CAPACITY DRUM	DOUBLE DEFL.	675	12x18	1,2,6																					(BASED ON		AIRE)	-	
R-1	PRICE	535	LOUVERED GRILLE	-	210-260	10x10	1,2,3,5								s	SYMBOL	ASSOCIATED	MAKE	Ν	IODEL	TYPE	DRI	VF	CFM	ESP	SONNES		MOT	OR DATA		UNIT WEIGHT	г по
R-2	PRICE	535	LOUVERED GRILLE	-	440-490	14x14	1,2,4,5										HOOD						·-	••••	(IN)	CONTLE	HP HP	P RPM	FLA	VOLTAGE	(LBS.)	
R-3	PRICE	535	LOUVERED GRILLE	-	600-630	16x16	1,2,4,5									KEF-1	HD-1	CAPTIVEAI		F18DD	IN-LINE	DIRE		2775	1.75	16.9	2.0	) 1632	5.7	208/3/60		1,2,
R-4	PRICE	535	LOUVERED GRILLE	-	880	20x14	1,2,4,5									DEF-1	HD-2	CAPTIVEAI	RE SIF	11DD-SS	IN-LINE	DIRE	СТ	525	0.5	5.7	0.5	5 1174	6.3	208/3/60	200	1,:
R-5	PRICE	535	LOUVERED GRILLE	-	1080	20x16	1,2,4,5								٦	NOTES:																
R-6	PRICE	535	LOUVERED GRILLE	-	1400	22x22	1,2,4										/IDE DISCONNEC /IDE WITH VFD AI			MOTOR.												
R-7	PRICE	535	LOUVERED GRILLE	-	3000	40x24	1,2,4										SHALL BE UL762   R TO CAPTIVEAI					OTES										
E-1	PRICE	PDDR	PERFORATED GRILLE	-	30-100	6Ø	1,2,3										NT IN ATTIC ON P			INAL AUUE33		0123.										
E-2	PRICE	535	LOUVERED GRILLE	-	100-200	6x6	1,2,3,5																									
E-3	PRICE	535	LOUVERED GRILLE	-	150-170	8Ø	1,2,3,5																									
E-4	PRICE	535	LOUVERED GRILLE	-	260	10x10	1,2,3														EX	XHA	UST	HOC	D SC	HED	ULE	(BASED ON		AIRE)		
AND CON 2. ARC 3. BASE 4. BASE 5. PRO	NTRACTOR SHALL PR MOUNTING HARDW/ NFIRM MOUNTING TYI CHITECT TO VERIFY C ED ON 12x12 FACE S ED ON 24x24 FACE S OVIDE WITH LAY-IN PA	ARE AS REQUIRED. ( PE. OLOR AND FINISH. ZE. ZE.		* - S-S *** - SIZ *** - CF	ZE	ŪRN, E-EXHAUS	T, T-TRANSFER										SYMBOL HD-1 HD-2 NOTES:	SERVING COOKLINE DISHWASHE	TYPE	I 602	ODEL / E 24 ND-2 4 VHB-2	ASSOCIAT EXHAUST KEF-1 DEF-1	FAN LENGT	D TH I" CAPT	FILTER TYPE RATE SOLO FIL -	CF			RISERS CFM 27	1 EA. SP (ir 775 1.0 25 0.0	86	NOTES 1,2,3,4 1,2,3

7. PROVIDE WITH 4A CORE MODEL.

8. PROVIDE WITH RADIAL DAMPER FOR BALANCING.

NOTES:

ALL SUPPLY AND EXHAUST CONNECTIONS SHALL BE FIELD CUT.
 PROVIDE WITH LED LIGHTING.PROVIDE WITH ANSUL FIRE SUPRESSION SYSTEM & PIPING.
 PROVIDE WITH TIMER SWITCH FOR RESPECTIVE EXHAUST FAN.
 EXHAUST DUCTWORK SHALL BE WELDED LIQUID TIGHT TO HOOD CONNECTION.

			E	EXHAU	ST FAI	N SCH	IED	ULE	(BASE	D ON GREI	ENHECK	)		
		MODEL			OFM	500			МОТС	OR DATA				NOTEO
SYMBOL	MAKE	MODEL	TYPE	DRIVE	CFM	ESP (IN)	HP	RPM	MCA	FLA	MOP	VOLTAGE	WEIGHT (LBS.)	NOTES
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.

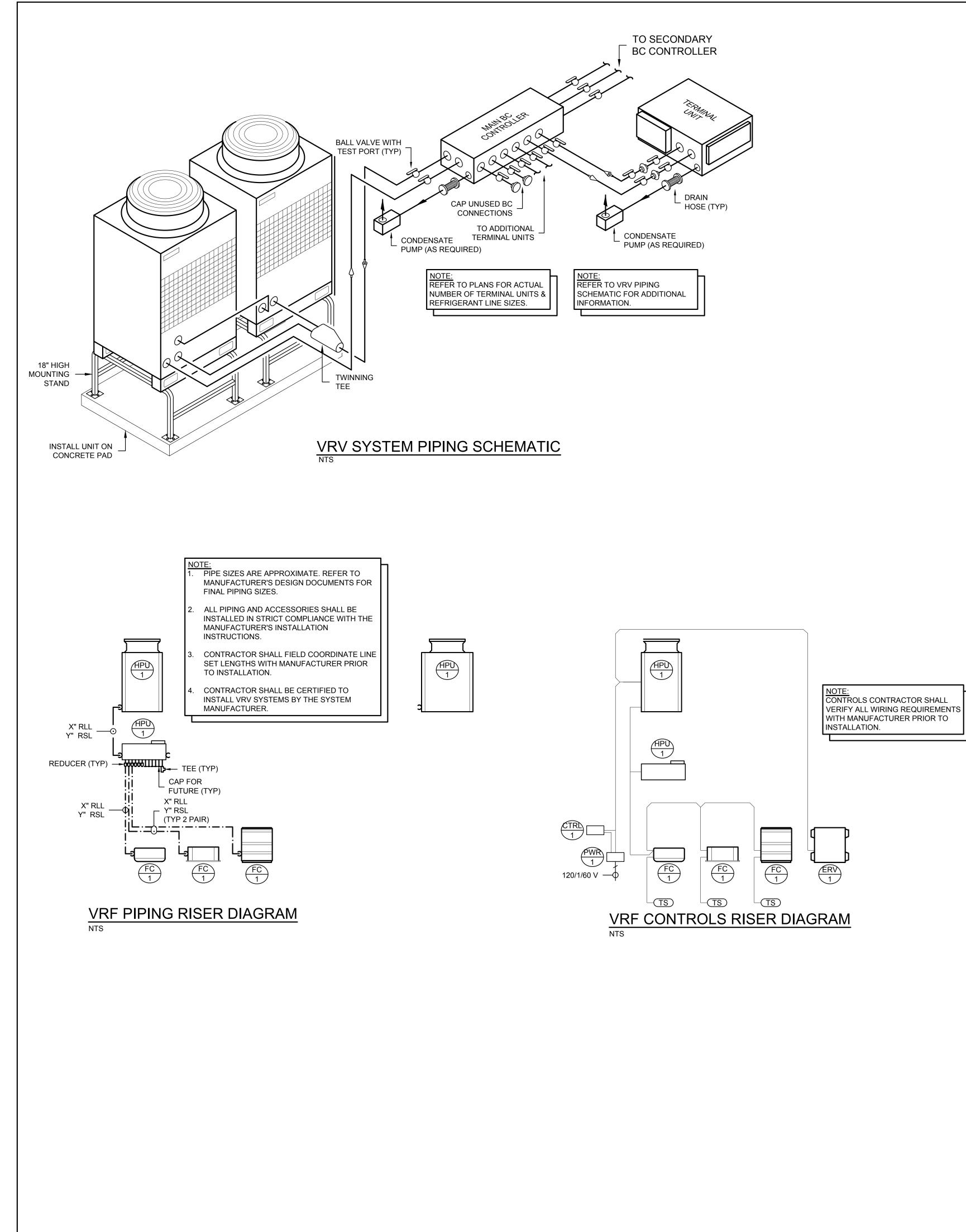
2. PROVIDE WITH VARI-GREEN EC MOTOR.

3. PROVIDE WITH BACKDRAFT DAMPER.

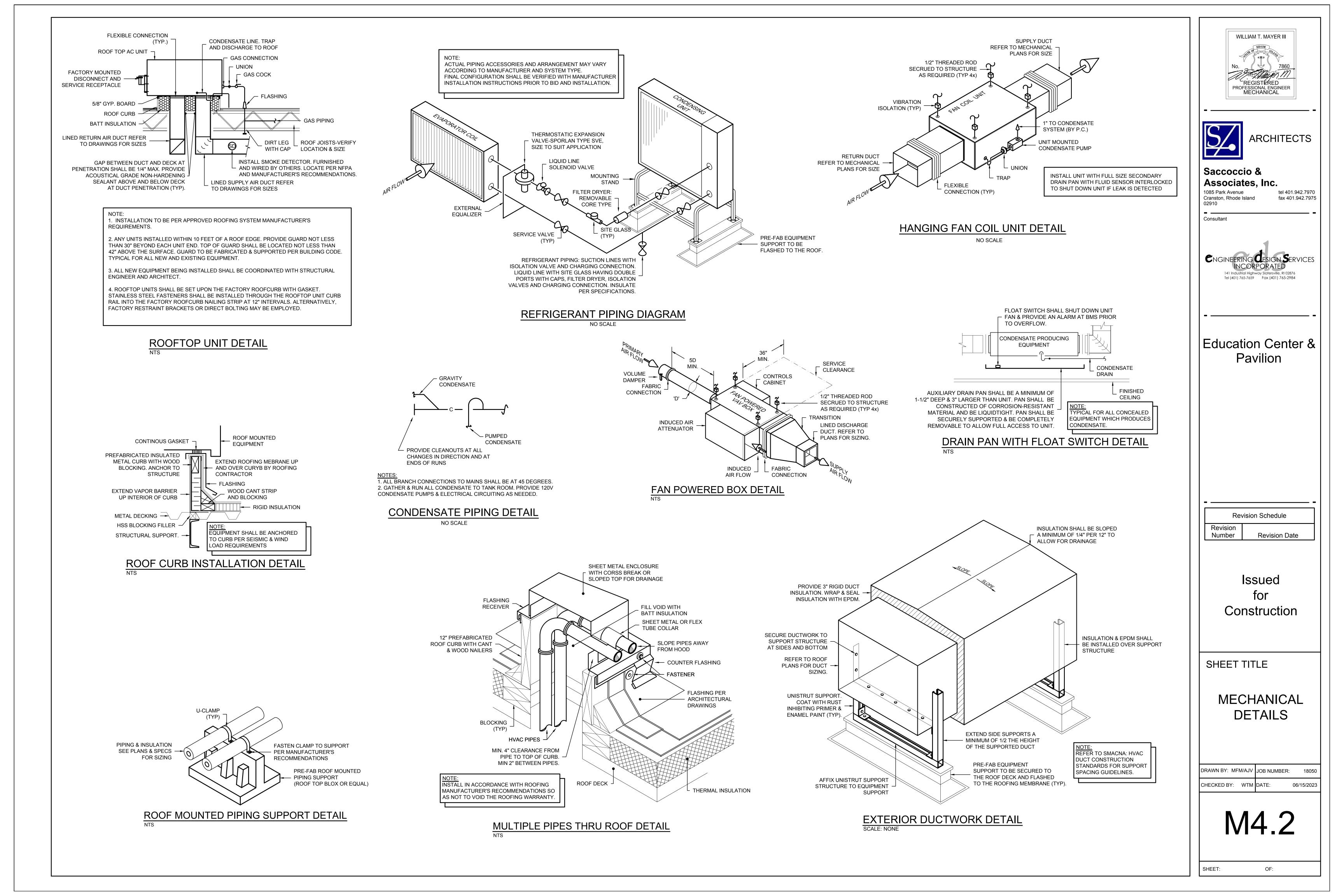
4. PROVIDE WITH ISOLATION KIT, ALL NECESSARY MOUNTING HARDWARE, AND PROGRAMMABLE TIME CLOCK (TAMPER PROOF).

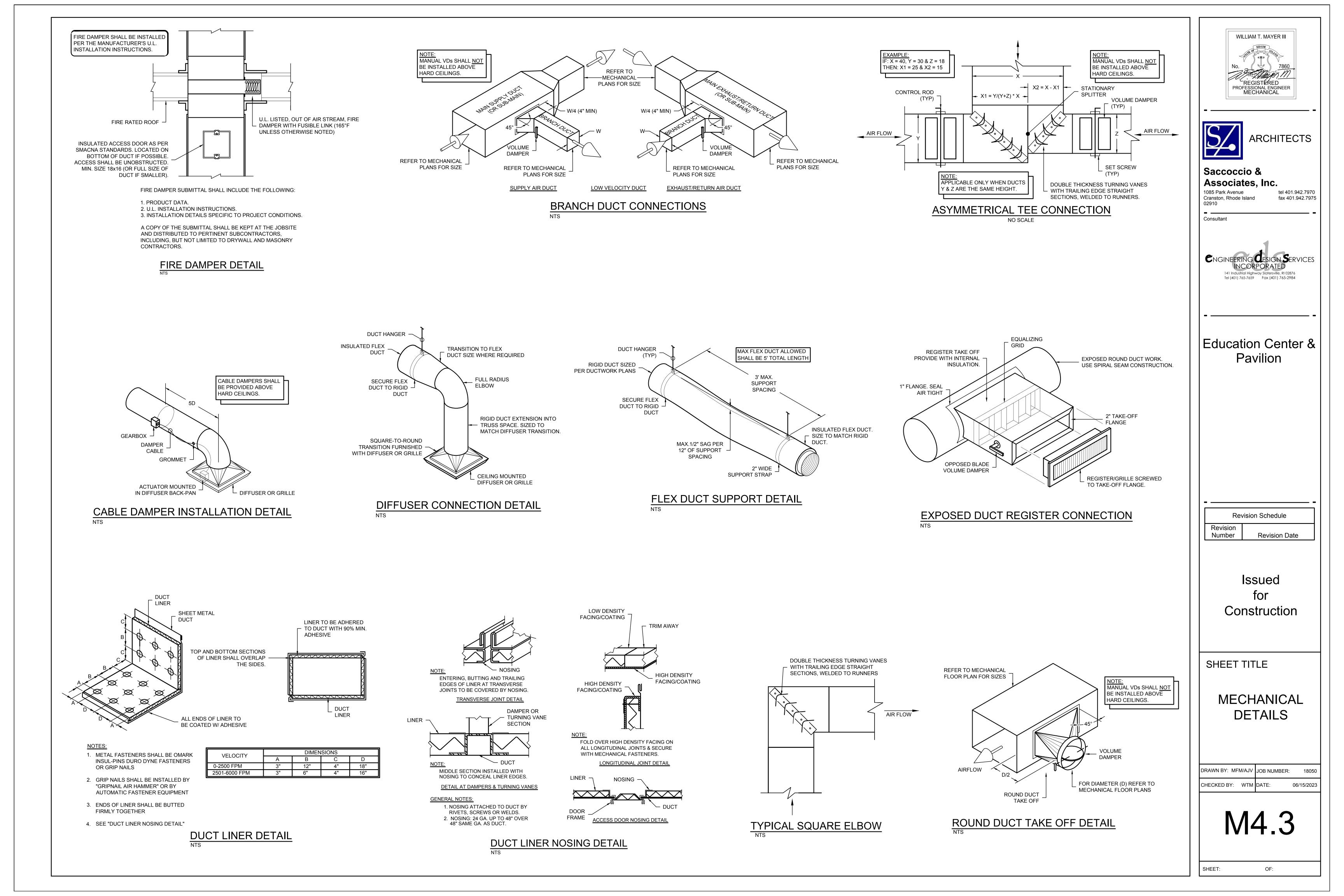
PROVIDE WITH ALL DUCT TRANSITIONS AS REQUIRED.
 PROVIDE WITH ISOLATION KIT, ALL NECESSARY MOUNTING HARDWARE, AND REVERSE-ACTING THERMOSTAT.

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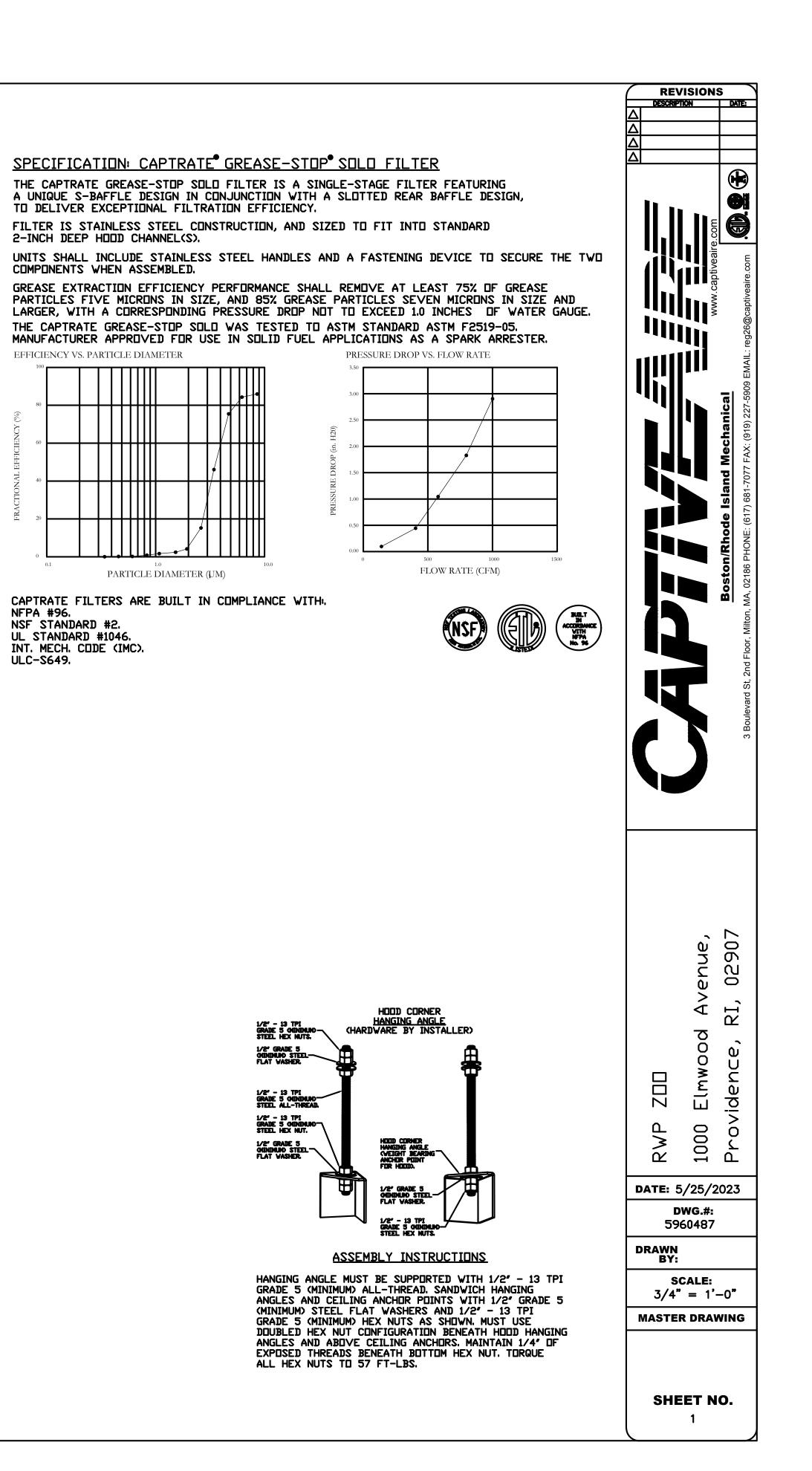


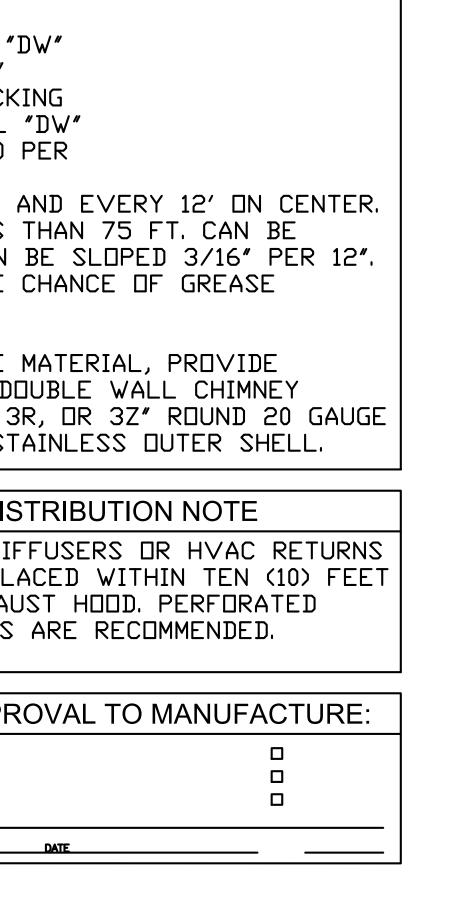
	Bo	oston/Rhode RE PHONE: (	[[INS, CALL ? Island Mecha GIUN 26 617) 681-7077 6 <b>e</b> captivealre.	anico													
HOOD			<i>I – JOB</i> #58		487												
HOOD NO	TAG	MODEL	MANUFACTURER			MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DES CFM	IGN /FT	TOTAL EXH CFM	VIDTH	LENG		UST P RISER( DIA	LENUM S> CFM	VEL
1	КН-1	6024 ND-2 4224	CAPTIVEAIRE	12	2′11 <b>′</b>	600 DEG	I	HEAVY	21	5	2775			4*	18″	2775	1570
2 100D	КН-2	VHB-G		3	3' 6 <b>'</b>	700 DEG	II	N/A	15	50	525			4"	12″	525	668
HOOD NO	TAG				FILTER	S> LENGTH		CIENCY <b>2</b> 7 AICRONS	G	ΥТЯ		LIGHT(S	\$	VIR GUA			1
1	КН-1	CAPTRATE	SOLO FILTER	9	16*	16"	85%	SEE FILTER SPEC	2	4	RECES	ssed ri	DUND	NC	1	LEFT	12"
2	кн-2									0							
	<u>ОРТ</u> ТА <u>Б</u> КН-1	BACKSPLAS RIGHT SID RIGHT EN BACKSPLAS SENSOR-CV	ESPLASH 80 ND STANDEFF ( H – INSIDE CE '.	GH 0.00° (FINI: DRNEF	HIGH SHED) R 80,1	1" WI 00" HIG	LEFT. NG 43 LONG DE 0 H X 2,	430 SS 50″ LONG 00″ LEG LE	INS Ength	RTICA SULAT	TED. 430 SS			INSULA	TED		
2		430 SS.	E VERTICAL EI		PANEL		OP WIDTI	•	OTTO	IM V:	IDTH, 8	80" HIC	5H	INSULA	TED		
<u>\$</u>			UCT &	- ·								2F <		TFM	۲ کا ۱	1	-1
<b>()</b>	PRE ROU IS CON DOE THE PRE PER SLE DUC ACC	JVIDE JND 20 LISTEJ NECTI S NDT MANU JVIDE MANU JVIDE MANU JPED 1 CT SHE CUMULA THE D -2221 JAL TE	GREASE GAUGE D TO UL ONS SE REQUI JFACTUR RATED JFACTUR		DUC 1978 1978 ED WE S IN CCES S LI 12" SLOF HOR HOR 3 H	T EQ STAJ 3 AN WITH ELDIN ISTAL SS D ISTIN , HOI PED IZON NEY T LIS SE SY	UAL INLE: D IS H 3M NG P LLAT DDRS IG MI RIZD AS M TAL IS N STED YSTE	TO CA SS ST INST FIRE ROVID ION G S AT E JDEL NTAL IUCH A RUNS. VITHIN DOUE MS MO	APT EE ALI BI UII EV RU AS	TI\ L A A G DE. E R V " NS P I NS P I S	/EAIF DUCT D US RIER IT H Y CH HOR S MOF SSIF INCH VALL "DW-	WDF ING 200 AS IANG IZDN RE T BLE GR - 2F	RK. <sup>*</sup> V DO I BEE IE I NTA TO OF EAS R, 2	ME ME CU NI NI NZ RE CUM SEI SEI SEI	IDEI LAM S. NST DIRE UNS 5 F DUC IBU: )UC	IP L MD ALL ALL T. ( E T	DW" DEL ED CON ESS CAN THE BLE R I T,
C4 E>	PRE RDL IS CDN DDE THE PRE SLE DUC ACC IF UL- EQU 430 ACC	IVIDE JND 20 LISTEI INECTI S NDT MANU IVIDE MANU JVIDE MANU JVIDE MANU IVEAIR ISTED, JST DU IE SYS	GREASE GAUGE D TO UL ONS SE REQUI JFACTUR ATED JFACTUR /16" PE JULD BE TION IN UCT OR OR UL- J CAPTI NLESS E SYST PRE-F JCT TO TEM, MI JN TIME	AREACER STOCENT AREACER STOCENT AREACER STOCENT	DUC 1978 ED VE S IN CCES S LI 12" SLOF HOR HOR HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF HOR SLOF SLOF SLOF HOR SLOF SLOF SLOF HOR SLOF SLOF SLOF SLOF HOR SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF SLOF	T EQ STAI S AN WITH ELDIN ISTAL SS D ISTIN PED IZON NEY T LI RES DUC ECON ATEI CE S E IN	UAL INLE: D IS H 3M NG P LAT DDRS IG MI RIZD AS M TAL IS V STED YSTE T IN MMEN D RDI STAL ISURI	TO CA SS ST INST FIRE ROVID IDN G S AT E JDEL NTAL IUCH A RUNS. VITHIN DOUE MS MO ISULAT SULAT	APT EEI ALI JINI UII * DV AS I 1 BLE IDE FEI E REG	ILEAR DER NS PI SIL N US SUR AN	VEAIF DUCT D US RIER IT H Y CH HOR SSIF SSIF INCH VALL VALL VALL			ME ME PLU: N I N I N Z RE COM SE I GAU VE D N OF		- "I MDI ALL CTI CTI CTI CTI CTI CTI CTI CTI CTI CTI	DEL DEL ED ED ED ESS CAN FHE SLE T, D S CAN FHE SLE T, D S CAN FHE SLE T, D S CAN FHE SLE T, D S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S CAN FHE S S S CAN FHE S S S S S S S S S S S S S S S S S S S
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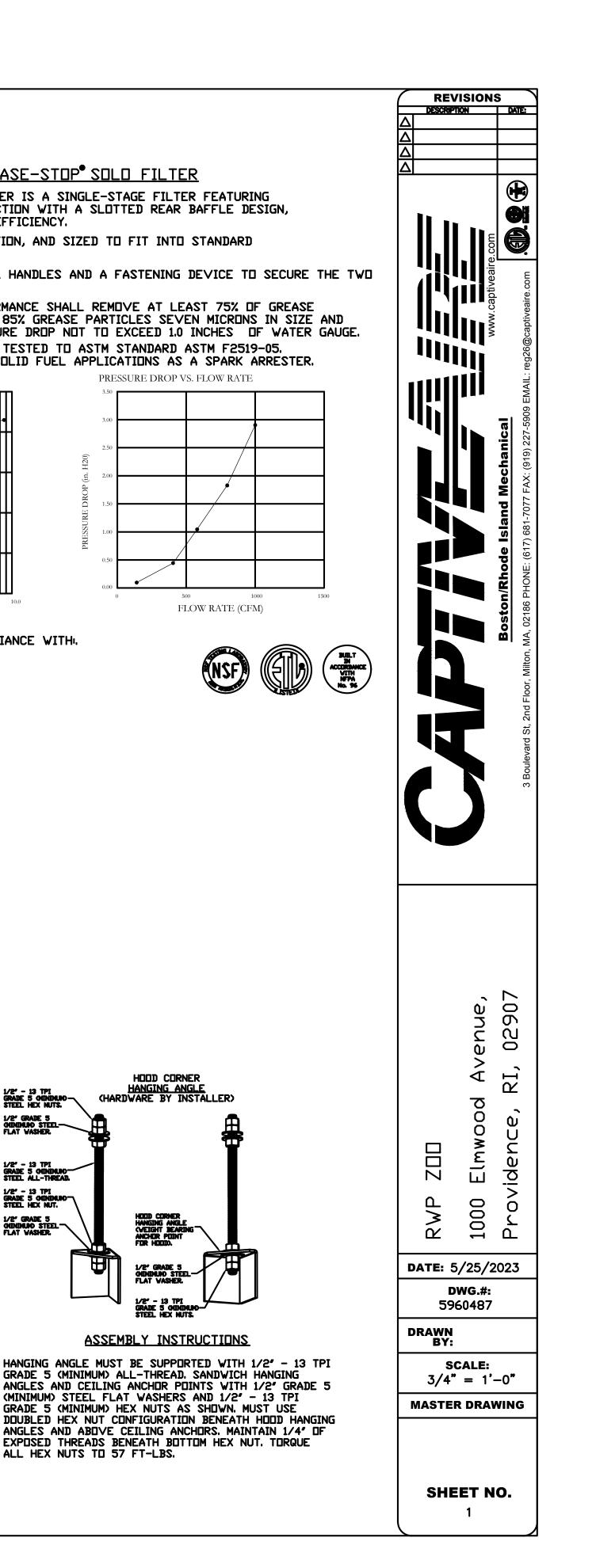
			HODD C	UNFIG
-	SP	Hood Construction	END TO END	ROW
0	-1.086″	430 SS Where exposed	ALONE	ALONE
3	-0.051″	430 SS 100%	ALONE	ALONE

	UTILITY CABINET(S)						
	FIF	RE SYSTEM	ELECTRICAL	SWITCHES			
SIZE	TYPE	SIZE	MODEL #	QUANTITY		WEIGHT	
12"×60"×24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT	VES	933	
		4.07 4.0	3C-31110MH	1 FAN	FIRE SYSTEM PIPING YES	LBS	
					ND	144 LBS	

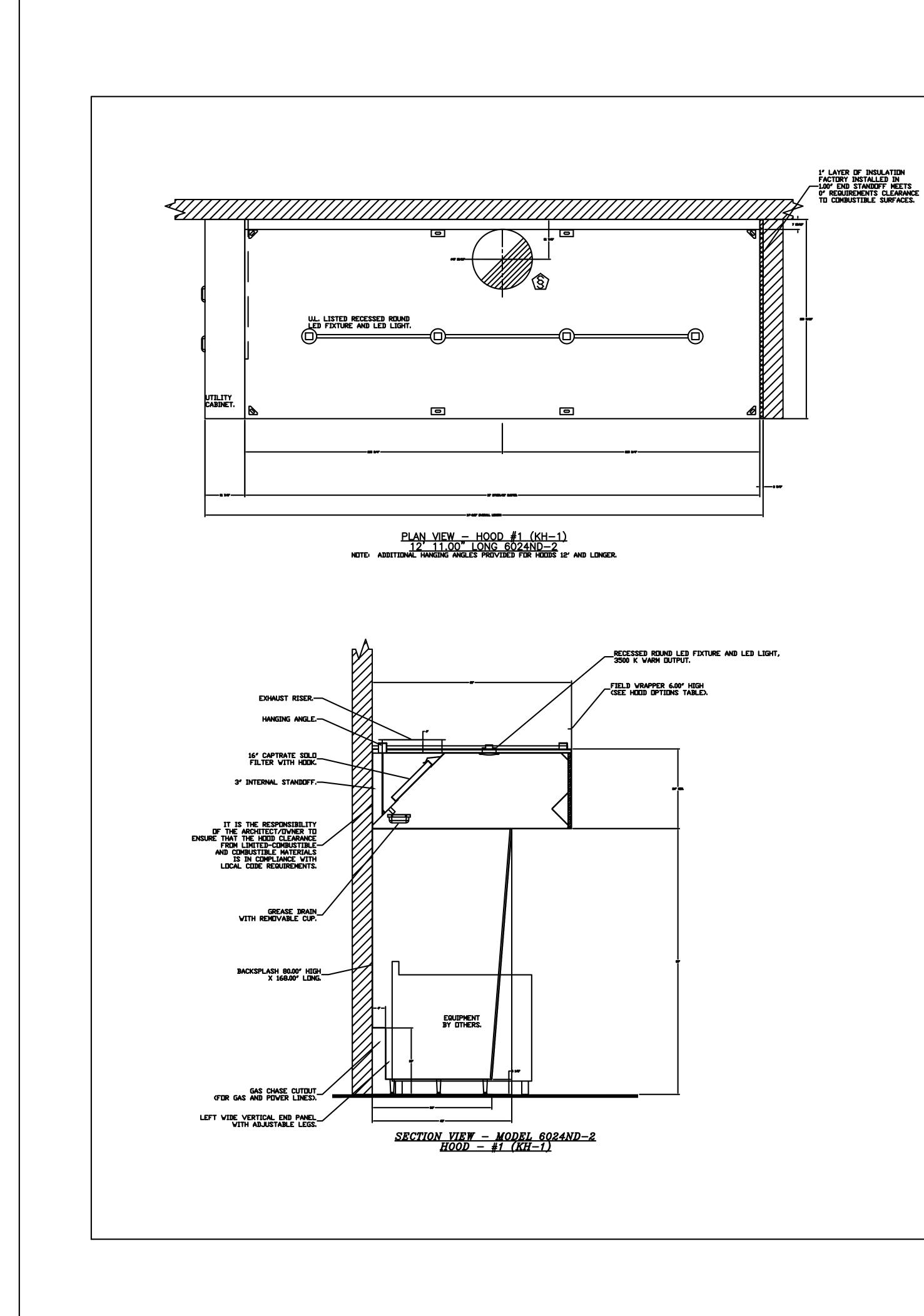
COMPONENTS WHEN ASSEMBLED.

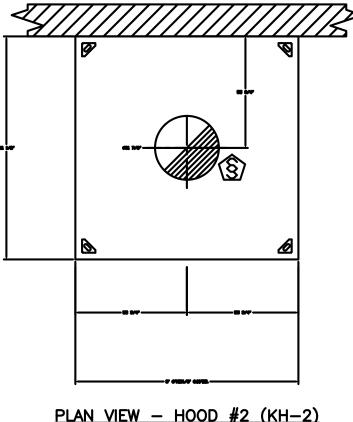


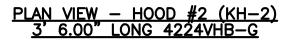


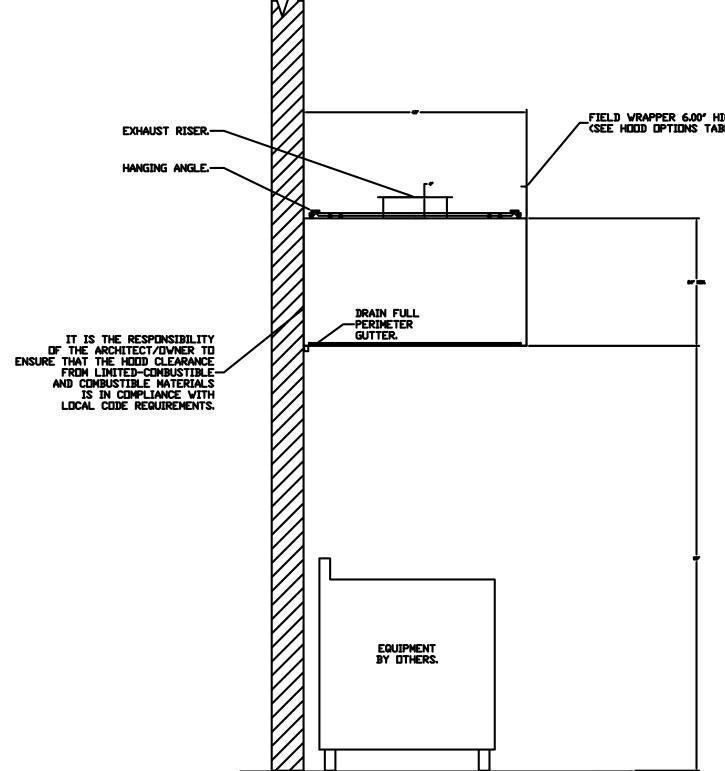


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 Education Center & Pavilion
Revision Schedule Revision Number Revision Date
Issued for Construction
SHEET TITLE
MECHANICAL REFERENCE DRAWINGS
DRAWN BY: MFM/AJV JOB NUMBER: 18050 CHECKED BY: WTM DATE: 06/15/2023
M5.1R
SHEET: OF:









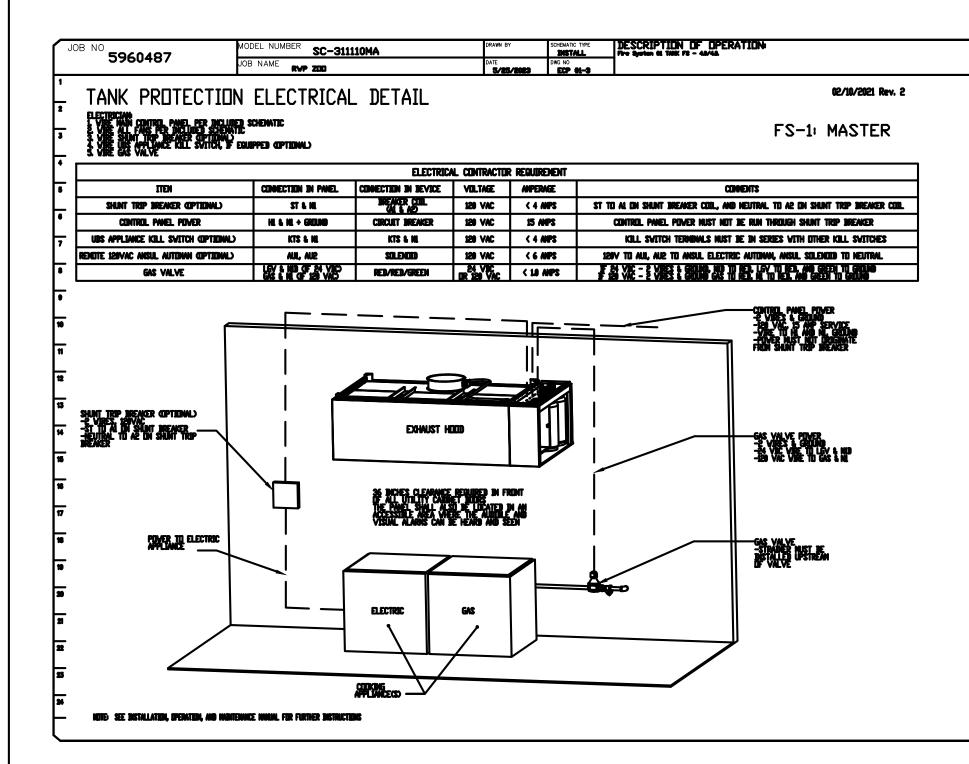
<u>SECTION VIEW – MODEL 4224VHB–G</u> <u>HOOD – #2 (KH–2)</u>

Image: Second	Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consultant Consul
(anua) Y (anua) Y (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Revision Schedule         Revision         Number       Revision Date         Issued         for         Construction         SHEET TITLE         MECHANICAL         REFERENCE         DRAWN BY: MFM/AJY         JOB NUMBER:       18050         CHECKED BY:       WTM         DATE:       06/15/2023

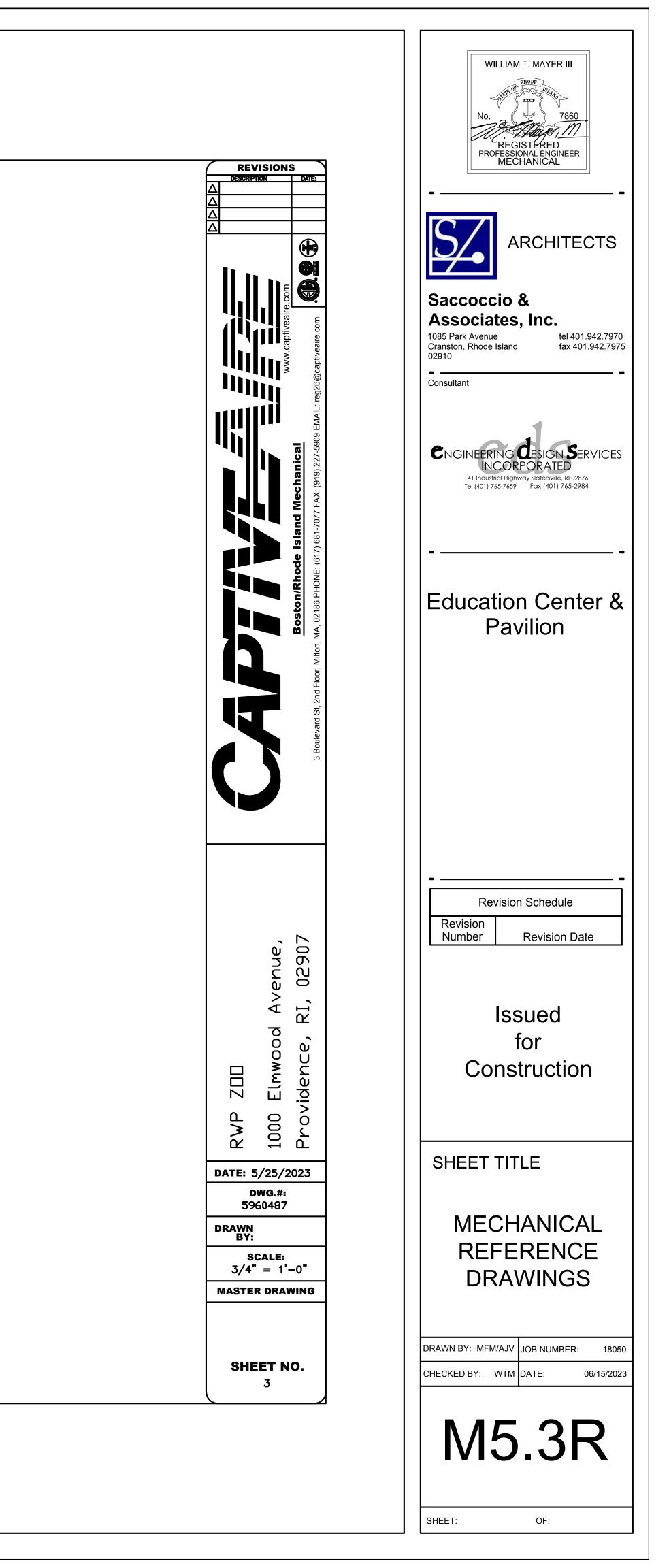
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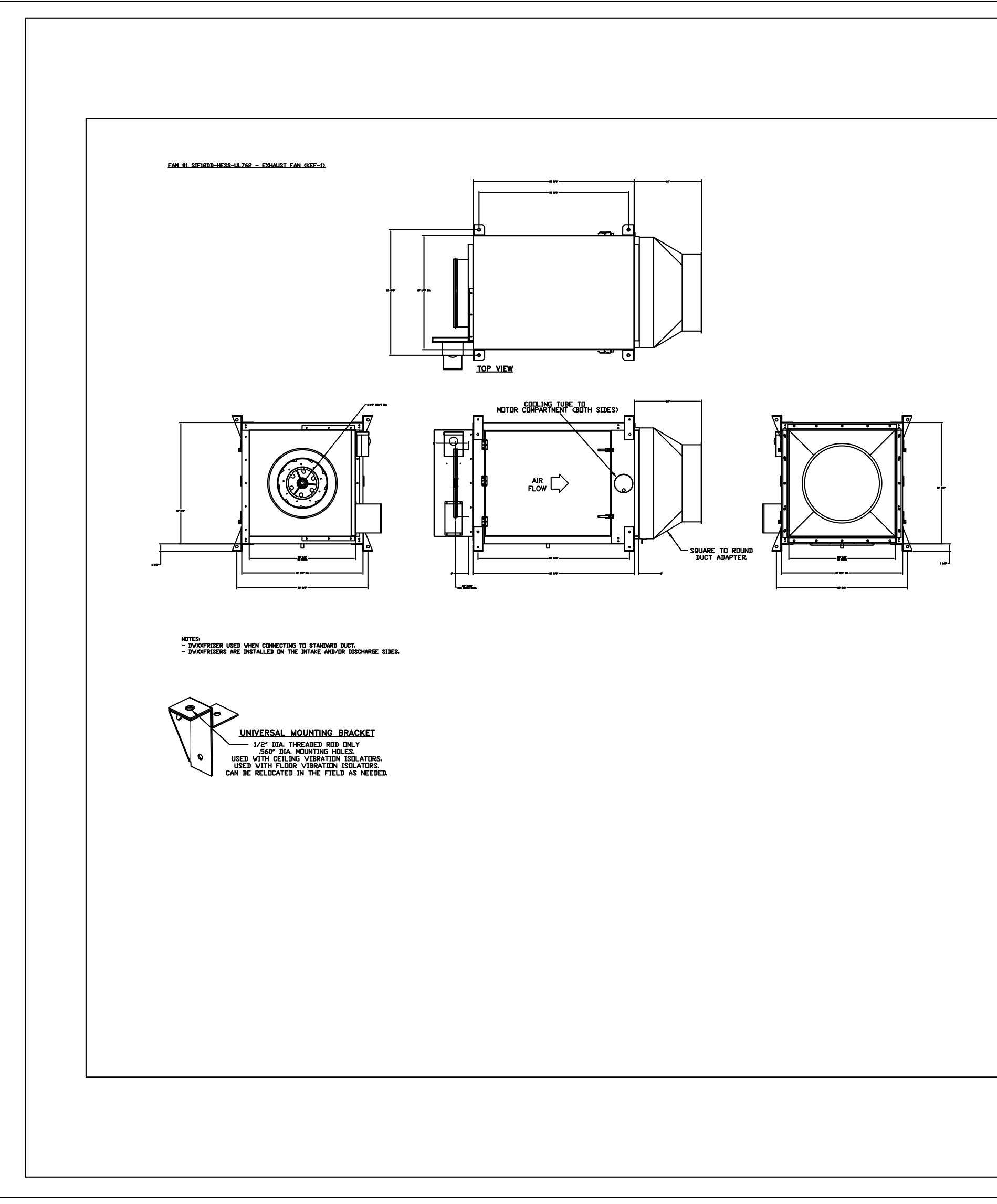
SHEET:

FIRE					FLOW	INSTALL	ATION	
SYSTEM ND	TAG	TYPE		SIZE	POINTS	SYSTEM	LOCATION ON HOO	
1		TANK FS		4.0/4.0	27	FIRE CABINET LEFT	LEFT, HOOD 1	
	/ .	- 1						
AS VA	ALVE(S							
FIRE SYSTEM ND		TYPE	SIZE	SUPPLIED BY				



<sup>°</sup> 5960487	NODEL NUMBER SC-3:	L1110MA	DRAWN BY DATE <b>S/85/</b>	DWG N		ESCRIPTION OF	UFEKMI1U 14/48	14.	
ANK PROTECTIO	•	TAGE DETAT		2023   20					02/10/2021 Rev. 2
NEN CENTRACTER: Vire Hannal Actuation Revicess, Ri Complete Final Herkup of System Verify Final Fire System test		alluks), fiel seksuks) w	up fine. Alanan guni	III. 13				+ 5-1:	MASTER
		ALARM (	CINTRACTOR R	EQUIREMEN	Т				
ITEN	CONNECTION IN PANEL	CONNECTION ON BEVICE	VOLTAGE	AMPERAGE					
NANUAL ACTUATION DEVICE(S)	<u>#</u> %# %	142	24 VBC	< 10 AMPS		ACTUATION DEVICE I		EEN CLEE PANEL UNL ACTUATION	TERMINALS IN AND IN TERMINALS IN AND IN EVICE IS INSTALLED
NNUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A		NAMUAL ACTUATI IF SURFACE MU RE SENSIR CHITE ON	UN JEVICE CUV Intel, USE CUV By Between H	RECEIPTION RECEIPTION OF A RECEIPTION OF A DECIRE PANEL DECIRE PANEL LEOVIRE DR SIN	
RENUTE FIRESTAT SENSOR(S)	월 <b>118</b> 월	BLACK AND WHETE	24 V <b>B</b> C	< 10 ANPS					
FIRE ALARH CONTACT	AL1, AL2	VARIES		UP TO 1 MP	FIRE AL	RN RELAY CONTACTS I		RE ALARN LIDCATI TIROL PANEL	
CORE INTERLOCK(S)	RA, RB, RC	1A, 1.3, 1.C	RS-485 CEMAIN Sign	ICATIONS	CORE SYSTE		ISTEN © 1A C	ure system ()) C. Use Beldenn	LE, TEI CERE SYSTEM (2) ILL 88769 ER SIMILAR VIRE
TROUBLE CONTACT	TBC, TBL, TOK	VARIES	NAX 129 VAC	UP TO 6 MPS		to tel & tec normal		-	
CORE COMMUNICATIONS CABLE	RJ-45 Jeck	Internet connection	SIGWL	CLA MPS	TYPICAL C	DIRECTION CATS CARL VIRELESS ROU	e to local ar Ter vith valu	A NETVORK VIA Internet conne	ethernet svitch dr Ction
RULLE CONTACT VIES II MUNNLLY FOI CONTACTS CONST I TRUTHE CONTENTION INFORMATION SEE FIGHT 4 VIES AVIE CONNECT BACK INFORMATION OF AN INFORMEL, INFORMATION OF AN INFORMATION OF AN INFORMATION INFORMATION OF AN INFORMATION OF AN INFORMATION OF AN INFORMATION INFORMATION OF AN INFORMATION OF AN INFORMATION OF AN INFORMATION INFORMATION OF AN INFORMATION OF AN I		EXHAUST			MUAL NATION EVICE DTI 20 ET FROM			-CIRE CINANE - TATS CALE MET DALE NET OF NET WITTOR VITH VA FINENET RUTER	NTIONS CABLE Led Th A Linch Area Led Th Anternet Access SVITCH DR VIRELESS
LETENTISE (ALE ON ALE O				ria	H HOOD 				ion bevice vines C vine (tendine d C vine (tendine d C stations vined in Stations vine Stane or similar vine
E ROPES CLEARANCE REPUBBED IN FRO ACTIVITY OF AN ALL THE REPUBBE FOR SWIT AND A CLEAR THE AND AN STATE AND A CAN BE HEARD AND SET		ELECTRIC	GAS	6	ANDIVE FLL ANDIVE FLL CENTER OF STATION	TD PUSH		- HANUAL ACTUAT Part Esti-St Prutective CD	IDN DEVICE See Must de Installed Ver Must de Installed
	CELIKING APPLIANCEG								
ttention: Low-Voltage do e routed in separate com	<b>. OR SIGNALING VIRE</b>	SHOULD							



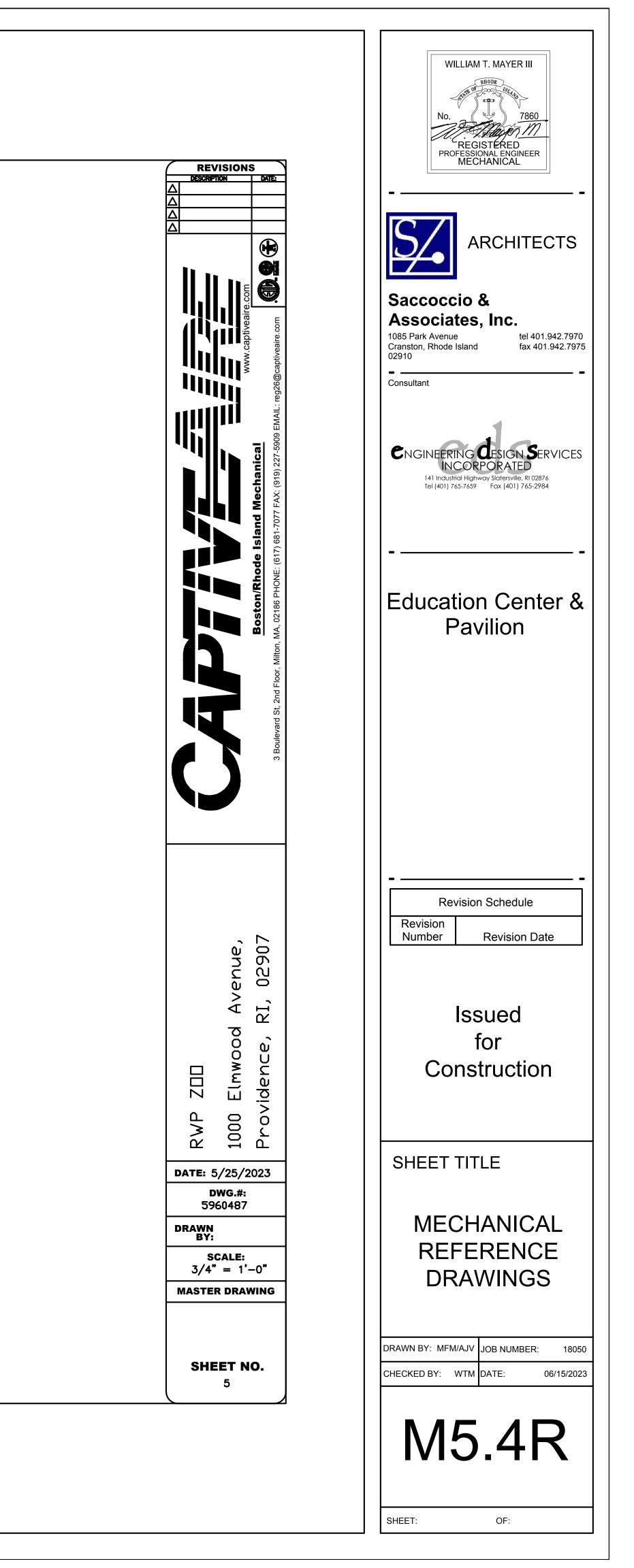


## FEATURES:

- DIRECT DRIVE CONSTRUCTION (ND BELTS/PULLEYS).
  TWD ACCESS DODRS FOR EASY ACCESS.
  BACKWARD INCLINED NON-DVERLOADING WHEELS.
  UL762 LISTING.
  AMCA AIR & SOUND CERTIFIED.
  THERMAL DVERLOAD PROTECTION (SINGLE PHASE).
  NEMA 3R SAFETY DISCONNECT SWITCH.
  DRAIN MUST BE CONNECTED TO OPTIONAL GREASE BOX OR PIPED TO GREASE RESERVOIR (RECOMMENDED).

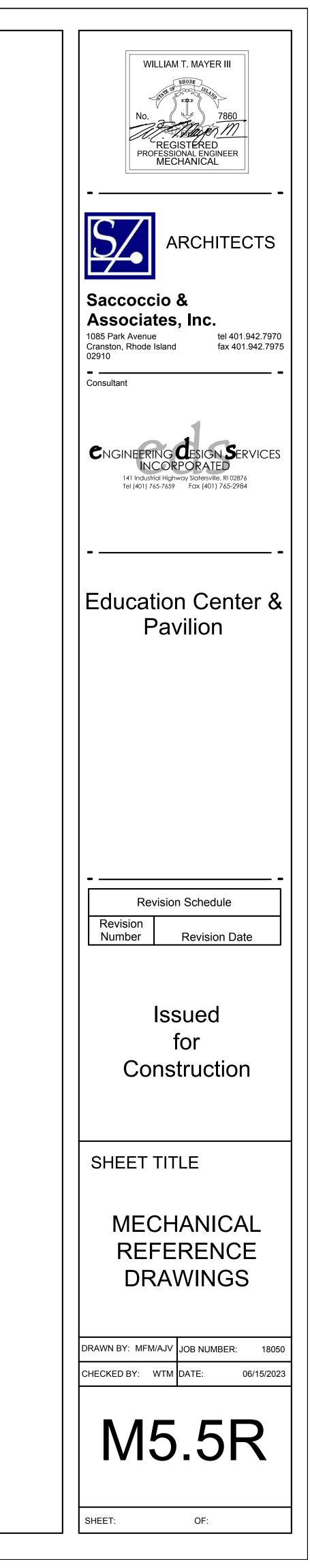
### <u>options</u>

- SIF 18- SS LOW SP STRAIGHT DISCHARGE- SQUARE TO ROUND DISCHARGE ADAPTER. SIF 8 INLET STANDARD 20' DUCT CONNECTION. SIF HORIZONTAL OVERHEAD MOUNT -PRE-INSTALLED MOUNTS (11-36). HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OUTDOOR USE WITH SQUARE INLINE FANS (HSA125). UNIT MOUNTED VFD FOR USE VITH ECPM03. VFD MOUNTING PLATE SIF 18. 2 YEAR PARTS WARRANTY.

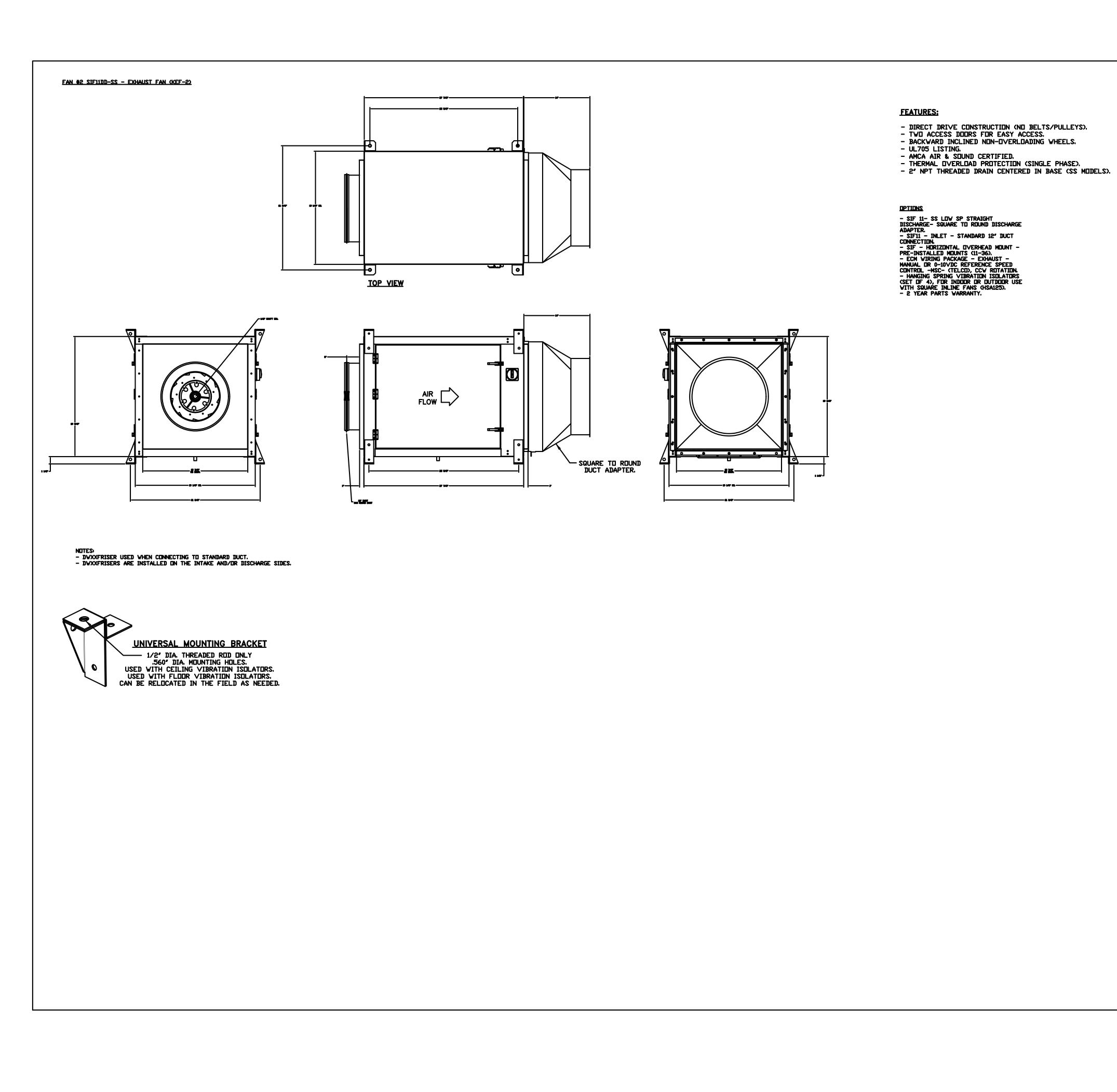


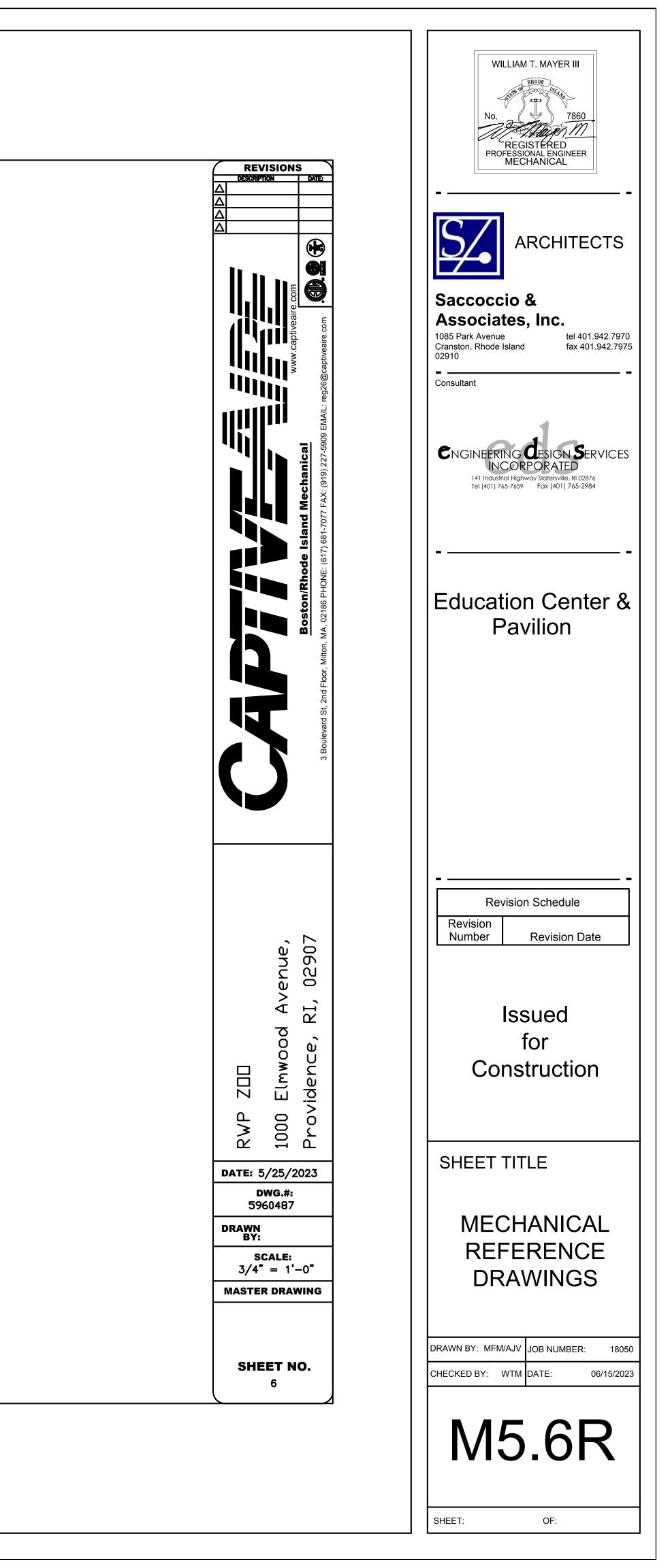
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1 KEF-1	1	SIF18DD	CAPTIVEAIRE	2775	1.750	1632	iefc,premiu	UM 2.000	1.4080	3	208 :	17	330	16.9																					
2 KEF-2	1	SIF11DD-SS	CAPTIVEAIRE	: 525	0.500	1174	TEAD-ECH	0.500	0.1450	1	115 (	3	157	5.7																					
AS /RTI	FAN S	SCHEDULE – JOB#596	80487																																
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NIT TAG G	aty 📗	DDAS/RTU MODEL #	HANUFACTURER	BLOVER			TAL VEIGH	ESP	HP PI	iase V	LT HC	НОСР	DUTSII	E AIR I	DB VI			-	CAP/	ACITY SENS.	- JEER	ISHRE	DISCHAR DB		CAPACITY IRED N	R	IISTURE Encival Rate	GAS TYPE	BTUS	T DUTPUT			red input Pressure		NOTES
3 DDAS-1	1	CASRTU3-1.300-18-15T		19P-3			00 2518	1.000	3.00	3 8	08 63.4	A 70A	95.0°F		.0°F 75.0	-				1 120.9 MB		5.7			MBH 129.6			NATURA	30000	0 243000	80°F	7 IN. V.C.	- 14 IN. V.C.	1.2.3.4.5	5,7 <b>,8,9,10,11,12,1</b> 3,
	-																			1															
3. INTEGRATE 4. REFRIGER/ 5. EC. MOTOR 6. ELECTRON 7. SUCTION ( 8. FACTORY ( 9. AVERAGIN 10. 2" EXTER 11. 812 EFFI 12. SUPPLY ( 13. FULLY MC 14. HAIL GUA 15. FACTORY	ED MONI ATION P CONDEL IC EXP/ LINE AC COMMISS IG INTAN CIENT F CIENT F CIENT F CIENT F CIENT F CIENT F CIENT F CIENT F CIENT F CIENT AL	ANSION VALVE. TXV NOT AC	ECTION BY MANUF H AND LOV PRES CCEPTABLE VARRANTY, 25 Y NPERATURE SENSI R-13 INSULATION- NOUCER TO MAINI VITH CFN MEASUI	'ACTURER ISURE SIDE (EAR VARR DRS (DISCH -MINIMUM 2 (AIN CONST	ANTY ON 3 ARGE SEN 20GA EXTEL ANT COMB	stainles: Isor to b Ridr V/ Listion ei	STEEL HE E FACTURY 14GA BASE FFICIENCY (	eat exchu ' Mounted Across f	NGER VITHD	n unity		ovn vit	h ng Af	ID 124 TU	RNDOVN	VITH LF	P																		
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1 KEF-1		HANGING SPRING VIBRATION	ISOLATORS (SET				ior use vi	ITH																											
		SQUARE INLINE FANS (HSA12) UNIT MOUNTED VFD FOR USE							-																										
		VFD HOUNTING PLATE SIF 16	8																																
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	_	SIF11 - INLET - STANDARD																																	
	_	sif - Horizontal overheat ECH viring package - EXH					CONTROL	-MSC-	-																										
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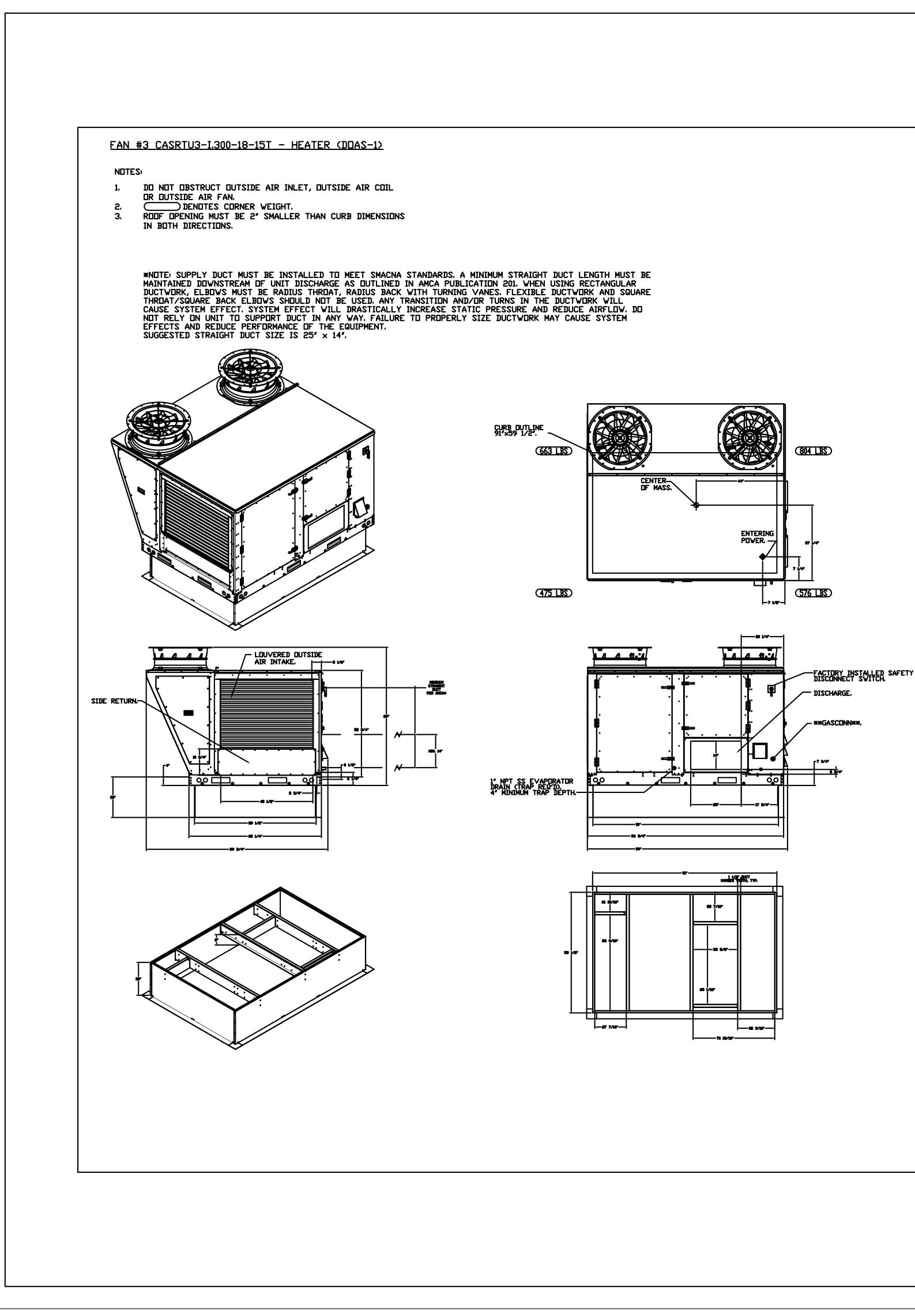
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ND	dn Fan	1	AG	VEIGHT	ITEM	SIZE	
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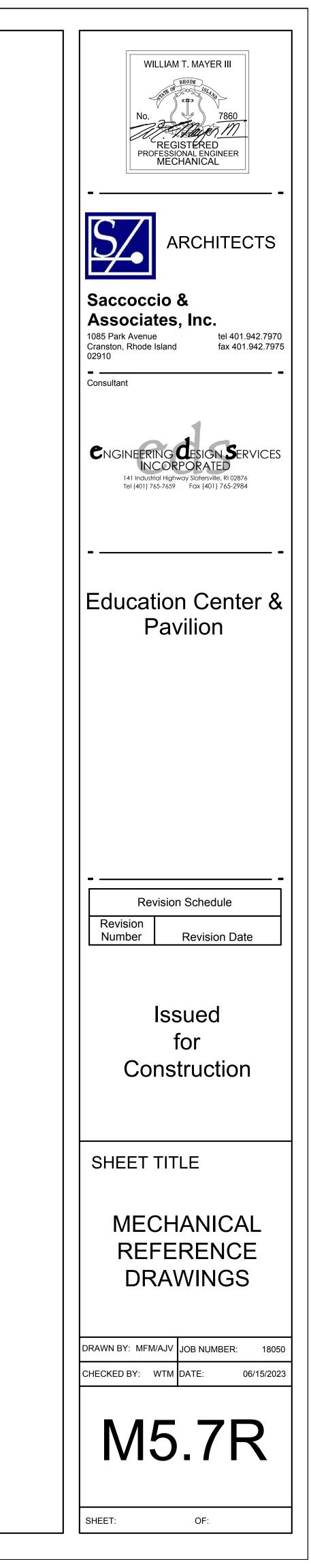


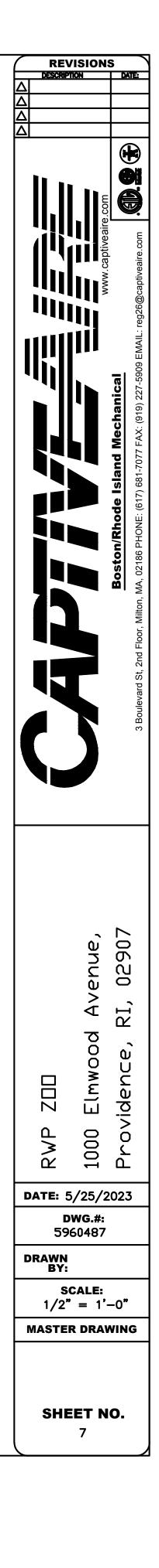
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		ire.com		
		www.captiveaire.com	Boston/Rhode Island Mechanical	3 Boulevard St, 2nd Floor, Milton, MA, 02186 PHONE: (617) 681-7077 FAX: (919) 227-5909 EMAIL: reg26@captiveaire.com
	RWP ZOO	1000 Elmwood Avenue,	Providence, RI, 02907	
DA	ATE:	5/25/2	023	;
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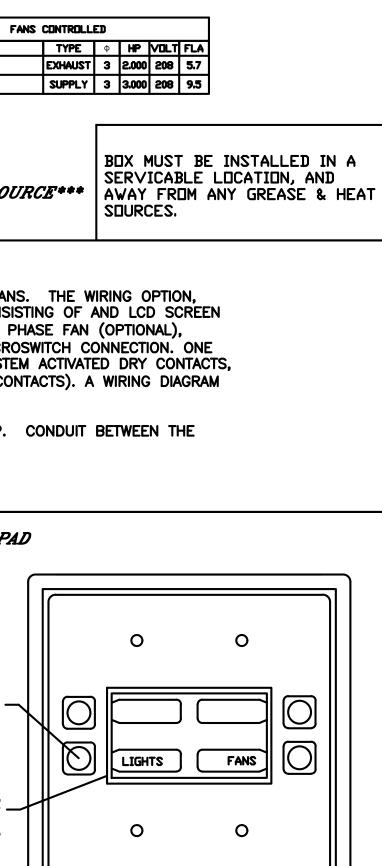




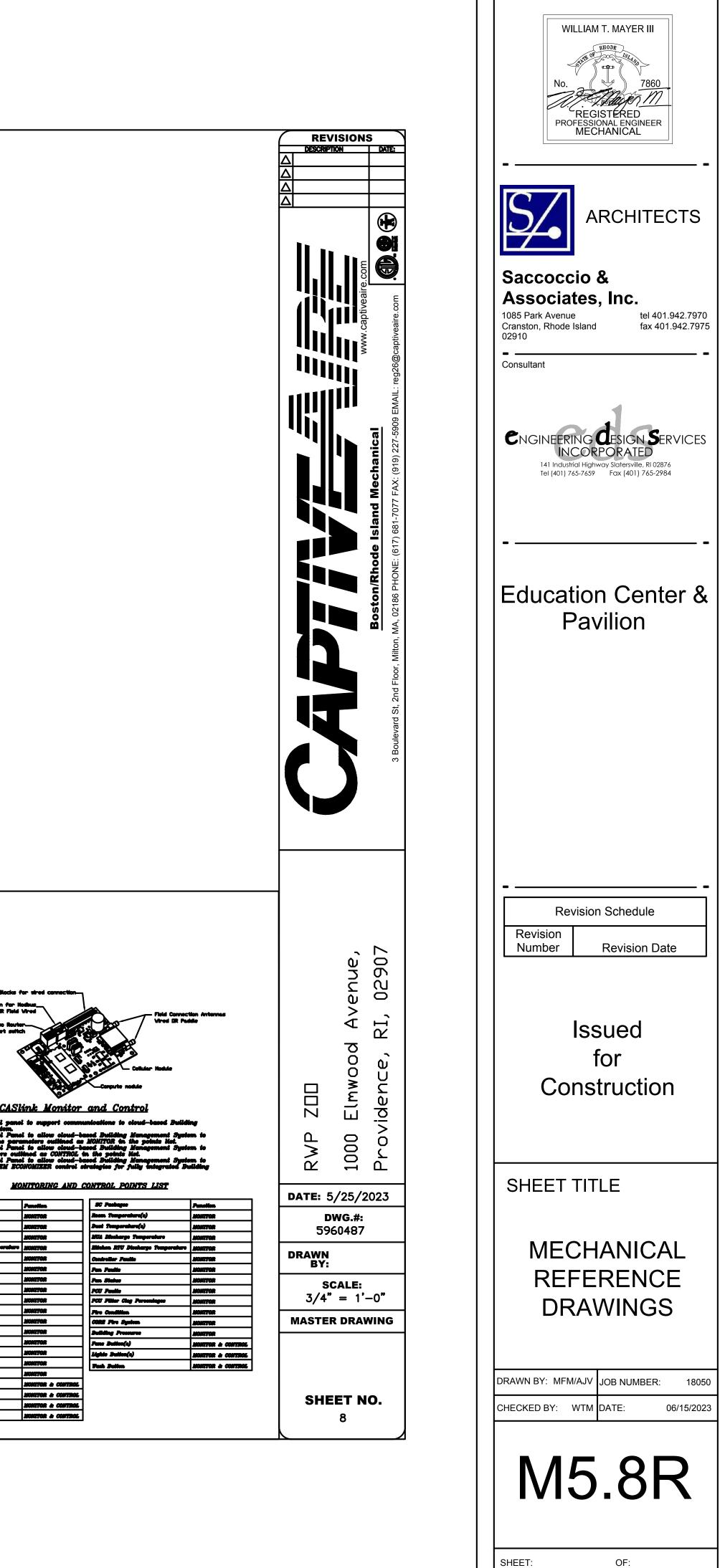


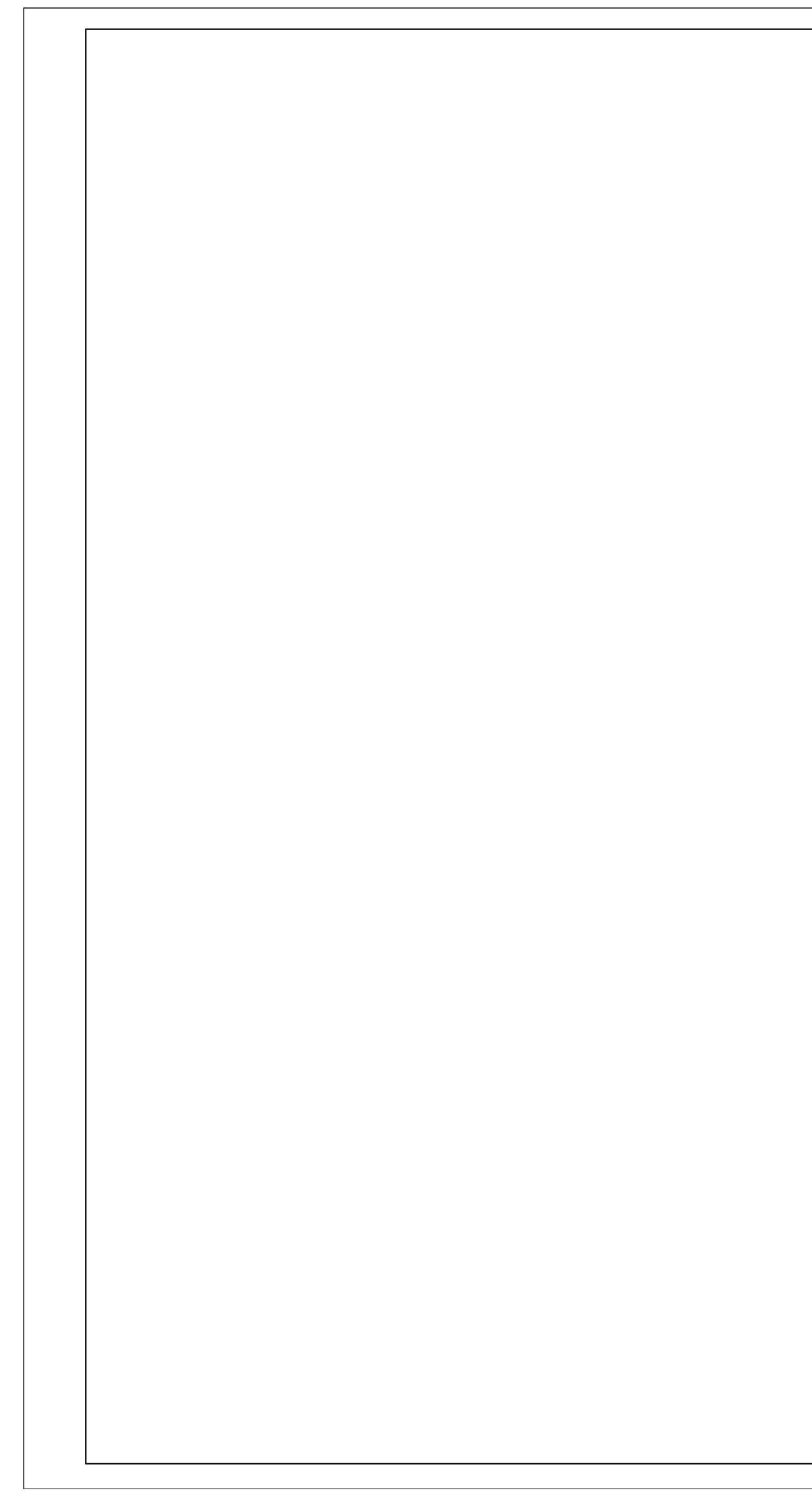


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### PLUMBING GENERAL NOTES

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 15400 PLUMBING SPECIFICATION

DRAWIN	GS
P0.0	PLUMBING LEGEND GENERAL NOTES, SCHEDULES AND DIAGRAMS
A-P1.0A	PLUMBING EDUCATION CENTER UNDERSLAB ENLARGED PART PLAN A
A-P1.0B	PLUMBING EDUCATION CENTER UNDERSLAB ENLARGED PART PLAN B
A-P1.0C	PLUMBING EDUCATION CENTER UNDERSLAB ENLARGED PART PLAN C
A-P1.0D	PLUMBING EDUCATION CENTER UNDERSLAB ENLARGED PART PLAN D
A-P1.1A	PLUMBING EDUCATION CENTER LOWER LEVEL ENLARGED PART PLAN B
A-P1.1B	PLUMBING EDUCATION CENTER LOWER LEVEL ENLARGED PART PLAN B
A-P1.1C	PLUMBING EDUCATION CENTER LOWER LEVEL ENLARGED PART PLAN C
A-P1.1D	PLUMBING EDUCATION CENTER LOWER LEVEL ENLARGED PART PLAN D
A-P1.2B	PLUMBING EDUCATION CENTER UPPER LEVEL ENLARGED PART PLAN B
A-P1.2C	PLUMBING EDUCATION CENTER UPPER LEVEL ENLARGED PART PLAN C
A-P1.2D	PLUMBING EDUCATION CENTER UPPER LEVEL ENLARGED PART PLAN D
A-P1.3B	PLUMBING EDUCATION CENTER ROOF ENLARGED PART PLAN B
A-P1.3C	PLUMBING EDUCATION CENTER ROOF ENLARGED PART PLAN C
A-P2.1	PLUMBING EDUCATION CENTER SOLAR WATER HEATING SYSTEM SHEET 1 OF 9
A-P2.2	PLUMBING EDUCATION CENTER SOLAR WATER HEATING SYSTEM SHEET 2 OF 9
A-P2.3	PLUMBING EDUCATION CENTER SOLAR WATER HEATING SYSTEM SHEET 3 OF 9
A-P2.4	PLUMBING EDUCATION CENTER SOLAR WATER HEATING SYSTEM SHEET 4 OF 9
A-P2.5	PLUMBING EDUCATION CENTER SOLAR WATER HEATING SYSTEM SHEET 5 OF 9
A-P2.6	PLUMBING EDUCATION CENTER SOLAR WATER HEATING SYSTEM SHEET 6 OF 9
A-P2.7	PLUMBING EDUCATION CENTER SOLAR WATER HEATING SYSTEM SHEET 7 OF 9
A-P2.8	PLUMBING EDUCATION CENTER SOLAR WATER HEATING SYSTEM SHEET 8 OF 9
A-P2.9	PLUMBING EDUCATION CENTER SOLAR WATER HEATING SYSTEM SHEET 9 OF 9
B-P1.0	PLUMBING PAVILION UNDERSLAB PLAN
B-P1.1	PLUMBING PAVILION FLOOR PLAN

- 2. 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.
- 3. 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.
- 4. 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.
- 5. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES AND EQUIPMENT.
- 6. WHERE WATER PIPING IS SHOWN DROPPING INTO PLUMBING CHASES WITH SIZES NOTED, THAT SIZE SHALL BE CARRIED FULL LENGTH THROUGH THE CHASE.
- 7. 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.
- 8. 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:

- 1. PROVIDE A COMPLETE UNDERSLAB WATER DRAINAGE SYSTEM PER GEOTECHNICAL REPORT. 2. PROVIDE A COMPLETE FOUNDATION PERIMETER WATER DRAINAGE SYSTEM PER GEOTECHNICAL REPORT.
- 3. REFER TO XXX" DRAWINGS.
- 4. DESIGN OF SYSTEM BY OTHERS. 5. INSTALLATION SHALL BE BY THIS PLUMBING CONTRACTOR.
- 6. 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:

- 1. 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.
- 2. SCHEDULE 40 PVC PIPING MAXIMUM OPERATING TEMPERATURE SHALL NOT EXCEED 140°F INTENDED FOR USE IN NON-PRESSURE APPLICATIONS.
- 3. 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.
- 4. 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

- 1. 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.
- 2. SYSTEMS WHICH REQUIRE PIPE INSULATION SHALL BE PROVIDED WITH BOTH INSULATION AND FIRE WRAP.

### PLUMBING HOT WATER PIPING DISTRIBUTION NOTES:

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

MAXIMUM PIPING LENGTHS SERVING PUBLIC LAVATORY FAUCETS 1/2" PIPF = 2'-0"

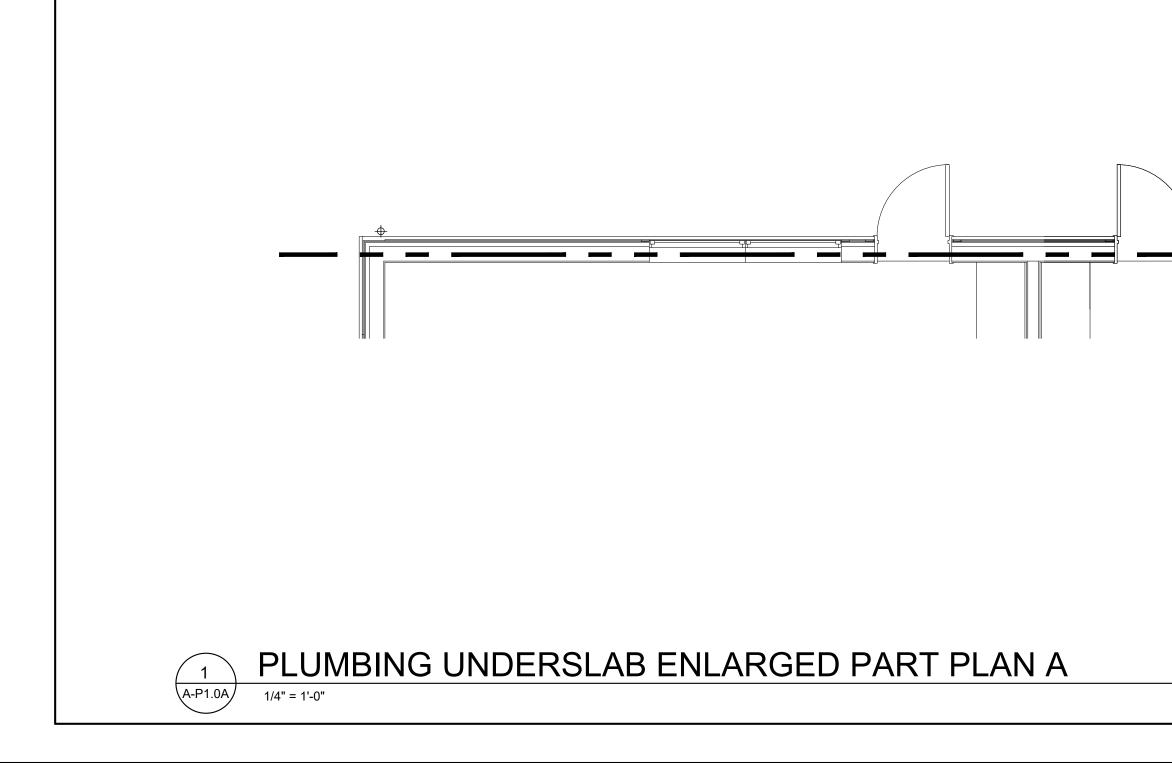
1/2" PIPE	= 2'-0"
3/4" PIPE	= 6"
1" PIPE	= 6"
1 1/4" PIPE	= 6"
1 1/2" PIPE	= 6"
2" PIPE	= 6"

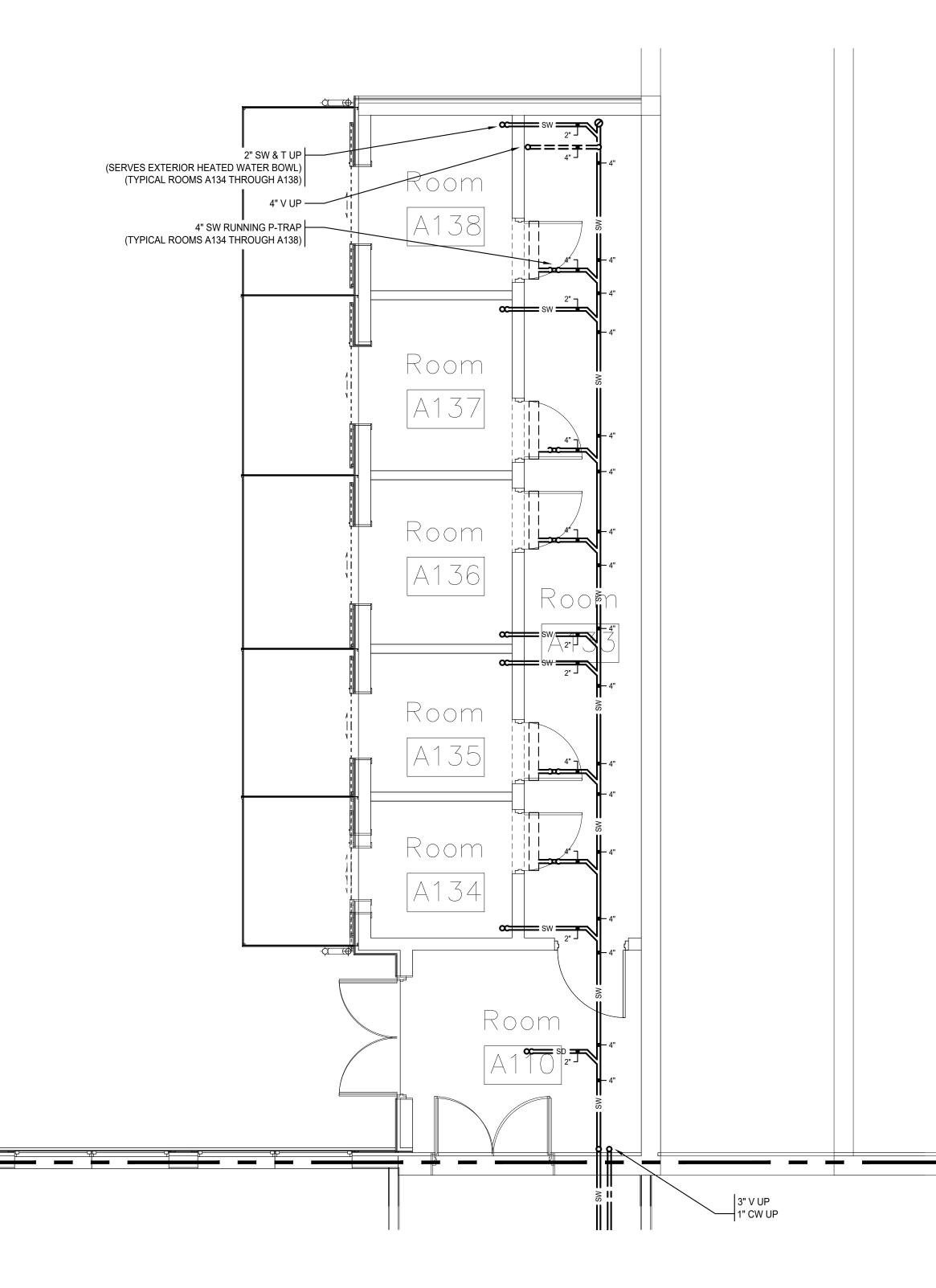
MAXIMUM PIPING LENGTHS SERVING OTHER FIXTURES AND APPLIANCES

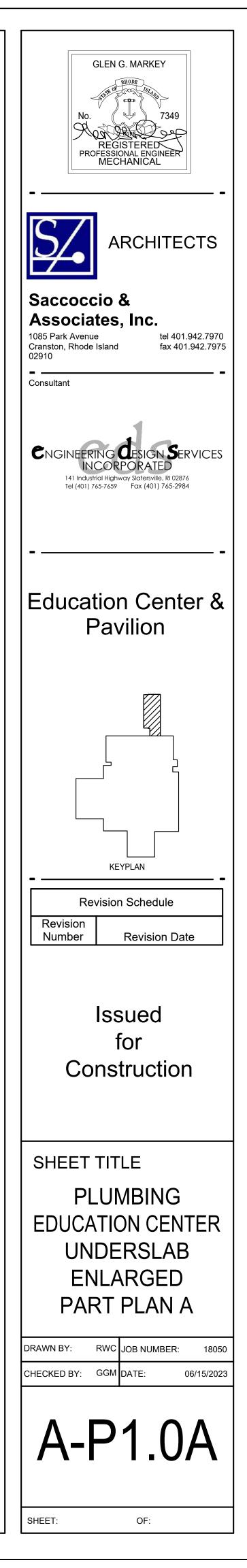
1/2" PIPE	= 43'-0"
3/4" PIPE	= 21'-0"
1" PIPE	= 13'-0"
1 1/4" PIPE	= 8'-0"
1 1/2" PIPE	= 6'-0"
2" PIPE	= 4'-0"

\_\_\_\_\_ \_\_\_\_

<b>PLUMBING LEG</b>			GLEN G. MARKEY
			RHODE
PIPING			State of Constants
YMBOL	ABBREVIATION	DESCRIPTION	No. 7349
		NEW WORK (ABOVE GROUND) (PERTAINS TO ALL SYSTEM)	gee to hell have
		NEW WORK (BELOW GROUND)	REGISTERED PROFESSIONAL ENGINEER MECHANICAL
		(PERTAINS TO ALL SYSTEM)	MECHANICAL
	CW	COLD WATER	
ESPPD	ESPPD	ELEVATOR SUMP PUMP PRESSURE DISCHARGE	-
	HW	HOT WATER 120°F	
	HWC	HOT WATER RECIRCULATION	
140	140HW	HOT WATER 140°F	ARCHITECTS
IW	IW	INDIRECT WASTE	
——————————————————————————————————————	KW	KITCHEN WASTE	
NPCW	NPCW	NON-POTABLE COLD WATER	Saccoccio &
••••• NPHW •••••	NPHW	NON-POTABLE HOT WATER WITH TEMPERATURE MAINTENANCE CABLE	Associates, Inc.
	RL	RAIN LEADER (PRIMARY)	1085 Park Avenue tel 401.942.7970
	SRL	RAIN LEADER (SECONDARY OVERFLOW)	Cranston, Rhode Island fax 401.942.7975 02910
	S or W	SOIL OR WASTE	
SWS	SWS	SOLAR WATER SUPPLY	Consultant
SWR	SWR	SOLAR WATER RETURN	
SW	SW	SPECIAL WASTE (SERVES ANIMAL HABITAT AREA - NONCORROSIVE)	
	V	VENT	
LVES			CNGINEERING <b>Q</b> ESIGN SERVICES INCORPORATED
MBOL	ABBREVIATION	DESCRIPTION	141 Industrial Highway Slatersville, RI 02876
<i>b</i>	BV	BALANCING VALVE	Tel (401) 765-7659 Fax (401) 765-2984
 		BALANCING VALVE ASSEMBLY	
	CV	CHECK VALVE	
- <b>ā</b> -II	DV-A	DRAIN VALVE TYPE WITH HOSE THREADS	
- <b>ā-</b> II	HB-A	HOSE BIBB TYPE WITH HOSE THREADS	
<b>I</b> ∎I		HOT WATER CIRCULATION FLOW SPLITTER	
	PRV	PRESSURE REDUCING VALVE	
		SHUTOFF VALVE	Education Center &
<b></b>	SV	SOLENOID VALVE	Pavilion
	VIV	VALVE IN VERTICAL	
NERAL			
MBOL	ABBREVIATION	DESCRIPTION	
	CI	CAST IRON PIPE AND FITTINGS	
-	СО	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)	
<b>—</b> ə	DN	DOWN (PENETRATES LEVEL BELOW)	
<b>—</b> ə		DROP (DOES NOT PENETRATE LEVEL BELOW)	
	FFE	FINISHED FLOOR ELEVATION	
	FGE	FINISHED GRADE ELEVATION	
	<u>P-1</u>	FIXTURE DESIGNATION	
	FAI	FRESH AIR INTAKE	Revision Schedule
		INDICATES DIRECTION OF FLOW	
<del>, •</del>		INDICATES DIRECTION OF SLOPE DOWN	Revision Number Revision Date
	INV	INVERT ELEVATION	Number Revision Date
×		PIPE ANCHOR	
	PVC	PVC SCHEDULE 40 SOLID WALL PIPE AND FITTINGS	
<b>—</b> ə		RISE (DOES NOT PENETRATE LEVEL ABOVE)	
- F	SA	SHOCK ABSORBER	Issued
·		SLEEVE	
	S=.01	SLEEVE SLOPE = 1/8" PER FOOT - 1%	for
	S=.01 S=.02	SLOPE = 1/8" PER FOOT - 1% SLOPE = 1/4" PER FOOT - 2%	
	S=.02 S=.04	SLOPE = 1/4 PER FOOT - 2% SLOPE = 1/2" PER FOOT - 4%	Construction
<b></b> 0	5=.04 UP	UP (PENETRATES LEVEL ABOVE)	
~	VTR	VENT THROUGH ROOF	
<b>—</b> +	WH	WALL HYDRANT	
	WTS	WALL HT DRANT WATER TIGHT SLEEVE	
——————————————————————————————————————	W & T	WATER TIGHT SLEEVE WASTE & TRAP	SHEET TITLE
			PLUMBING
			LEGEND,
			GENERAL NOTES,
			SCHEDULES AND
			SCHEDULES AND DIAGRAMS
			DIAGRAMS
			DIAGRAMS DRAWN BY: RWC JOB NUMBER: 18050
			DIAGRAMS
			DIAGRAMS DRAWN BY: RWC JOB NUMBER: 18050
			DIAGRAMS DRAWN BY: RWC JOB NUMBER: 18050 CHECKED BY: GGM DATE: 06/15/2023
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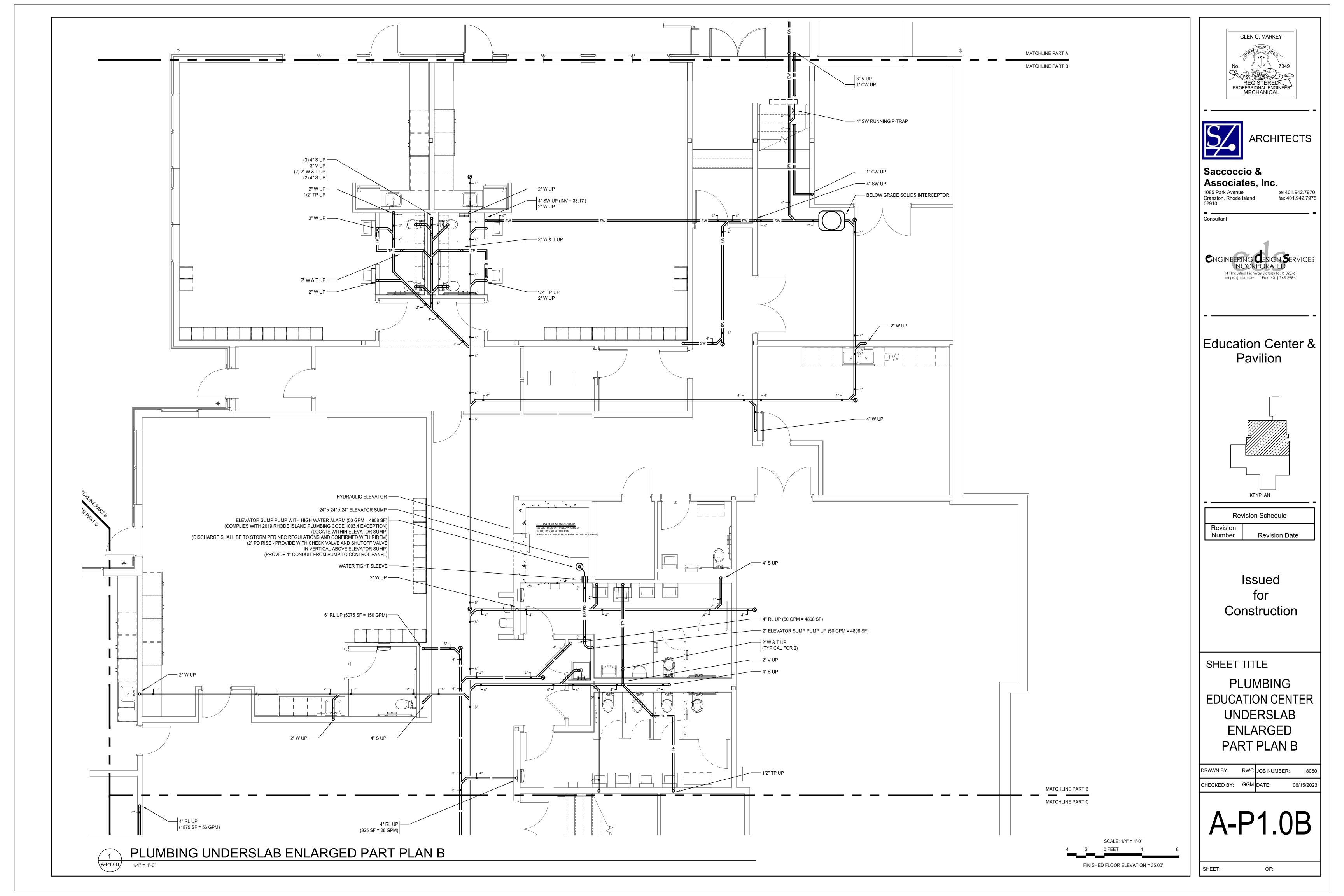


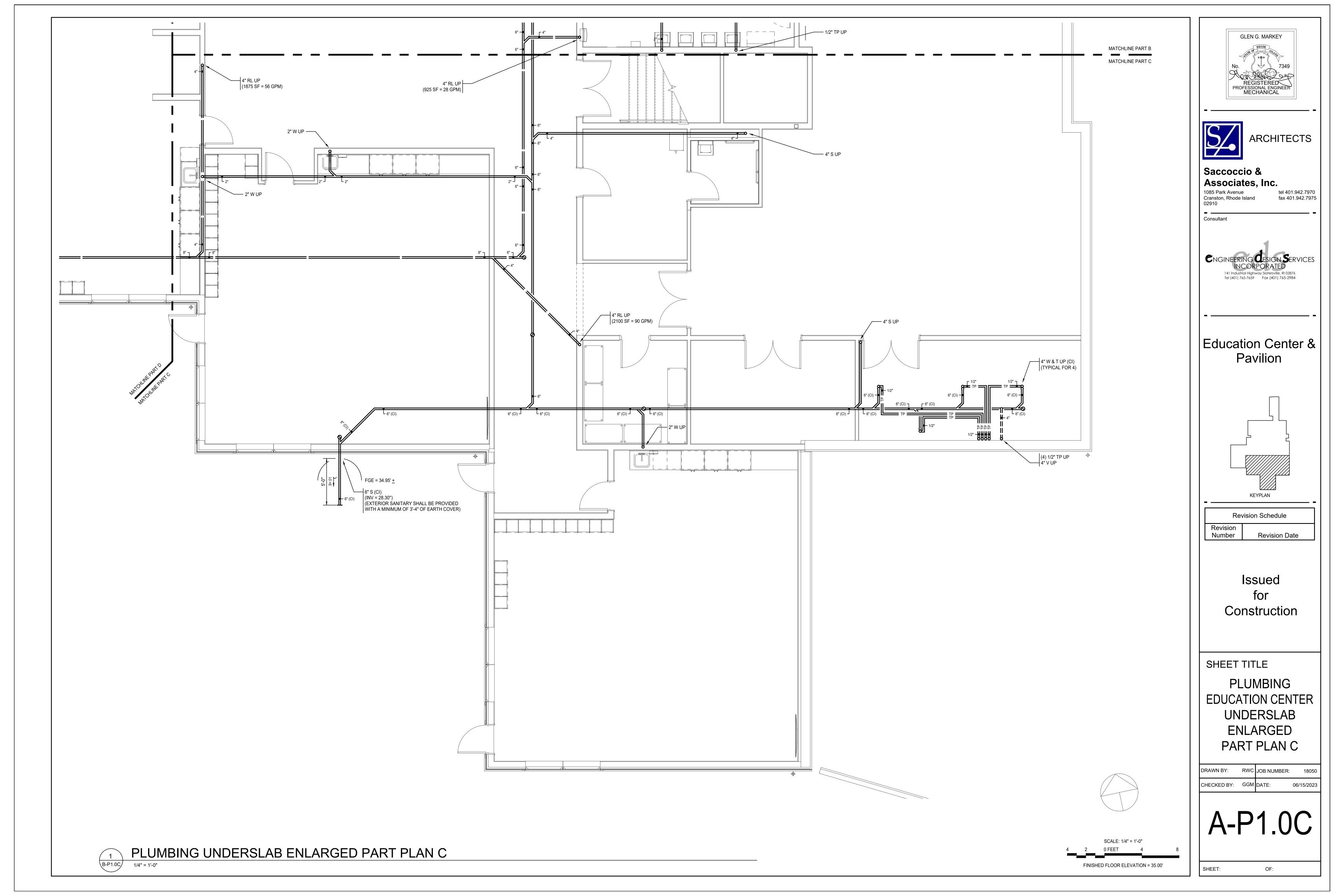


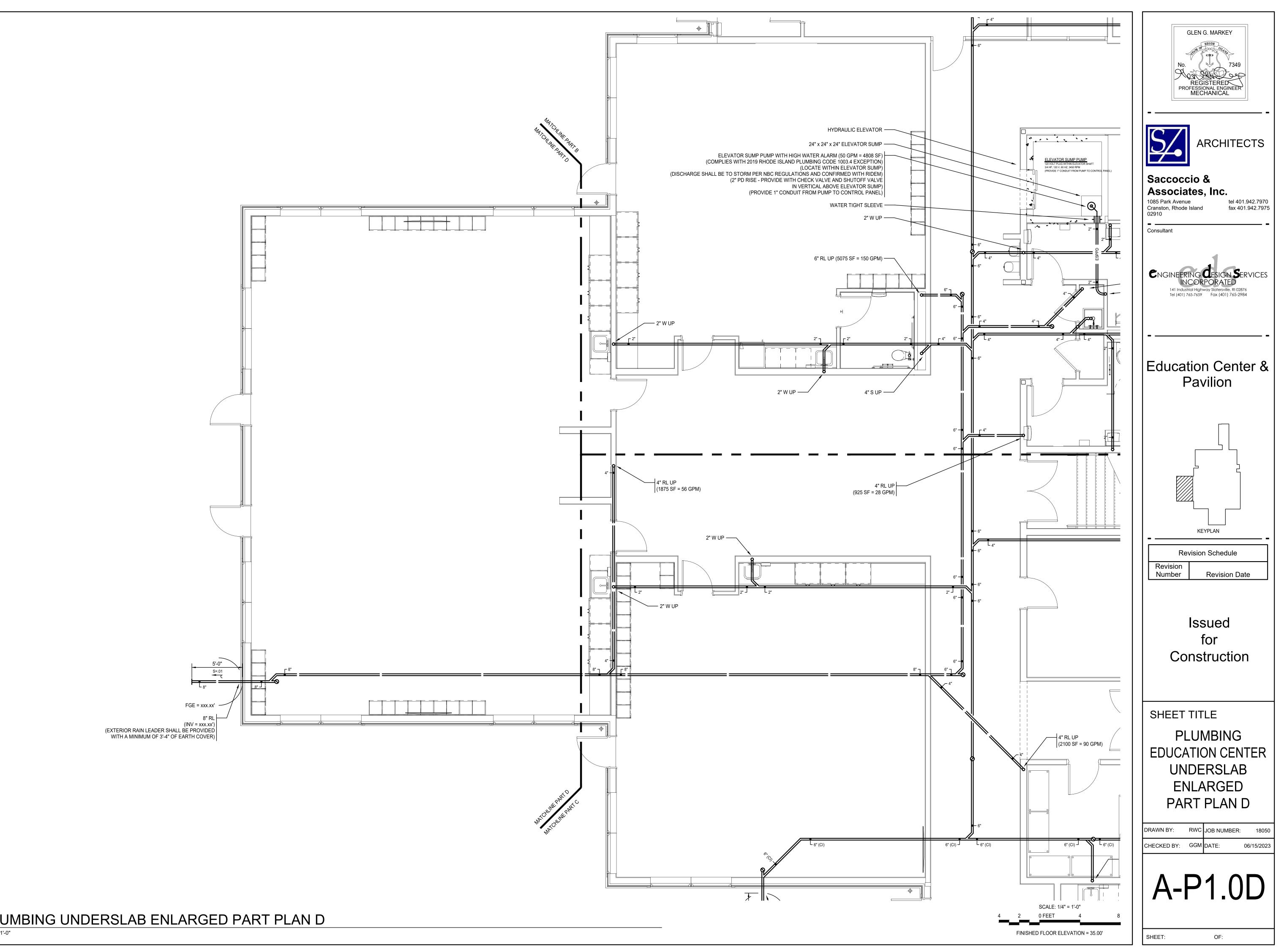
MATCHLINE PART A MATCHLINE PART B

> SCALE: 1/4" = 1'-0" 2 0 FEET 4

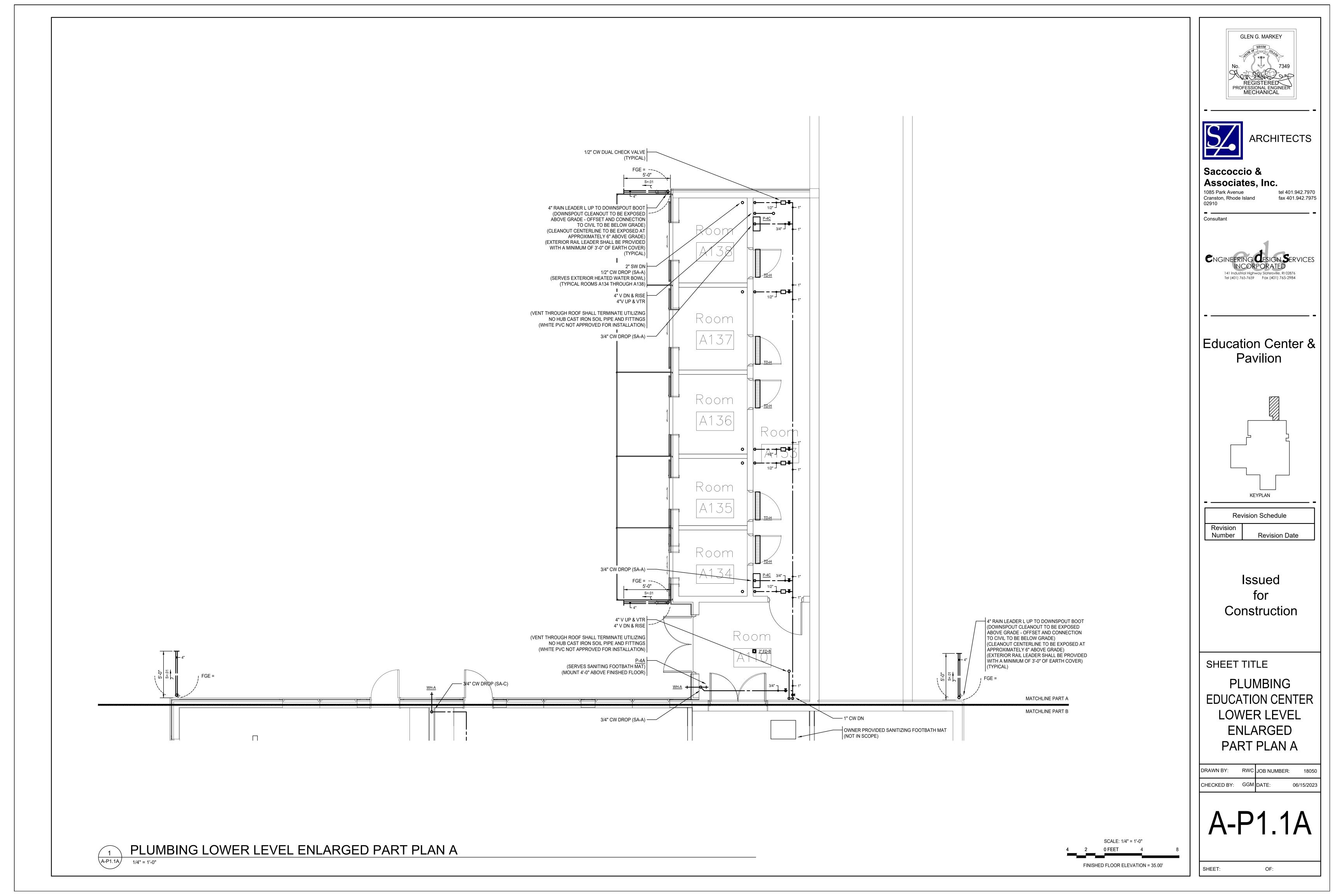
> > FINISHED FLOOR ELEVATION = 35.00'

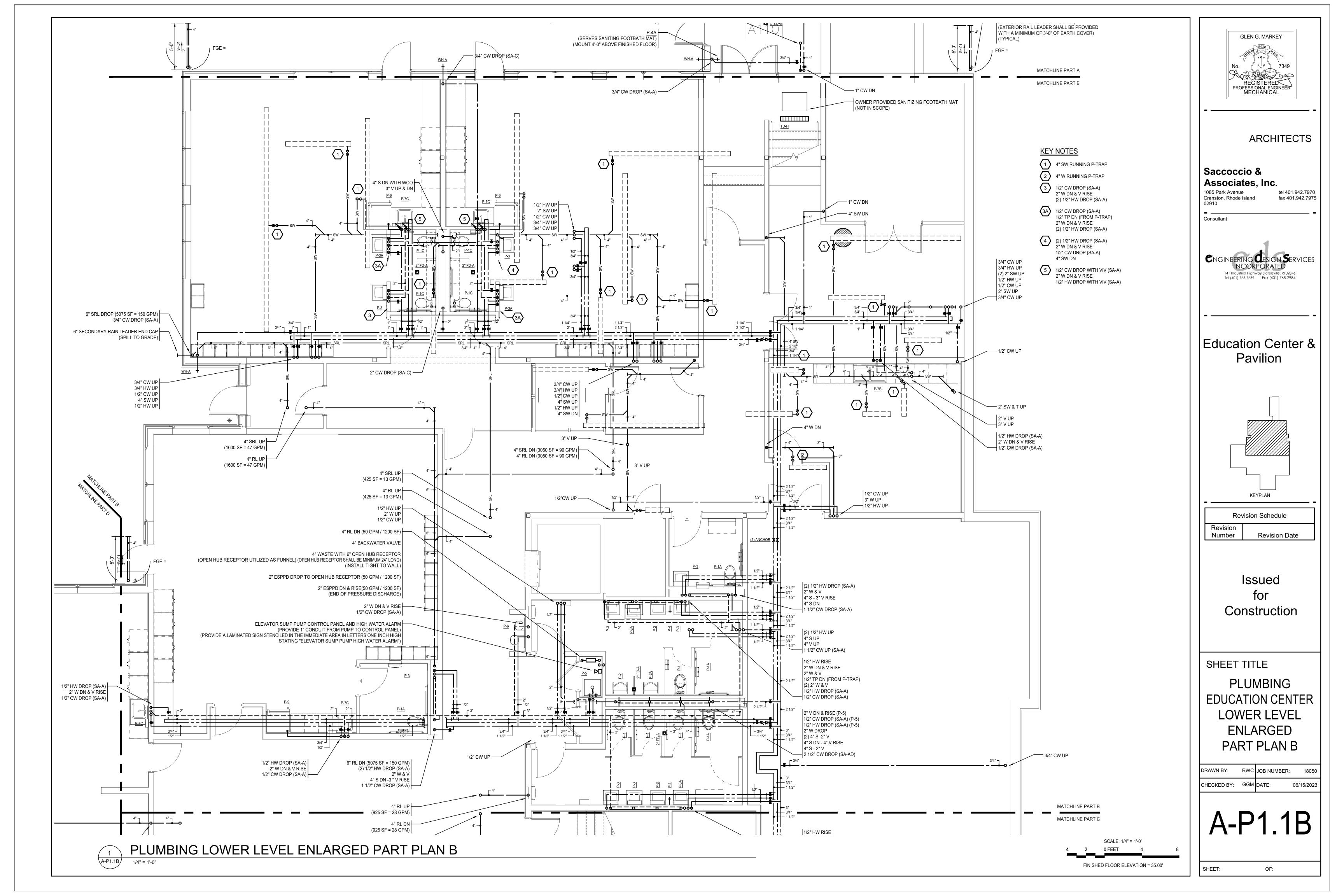


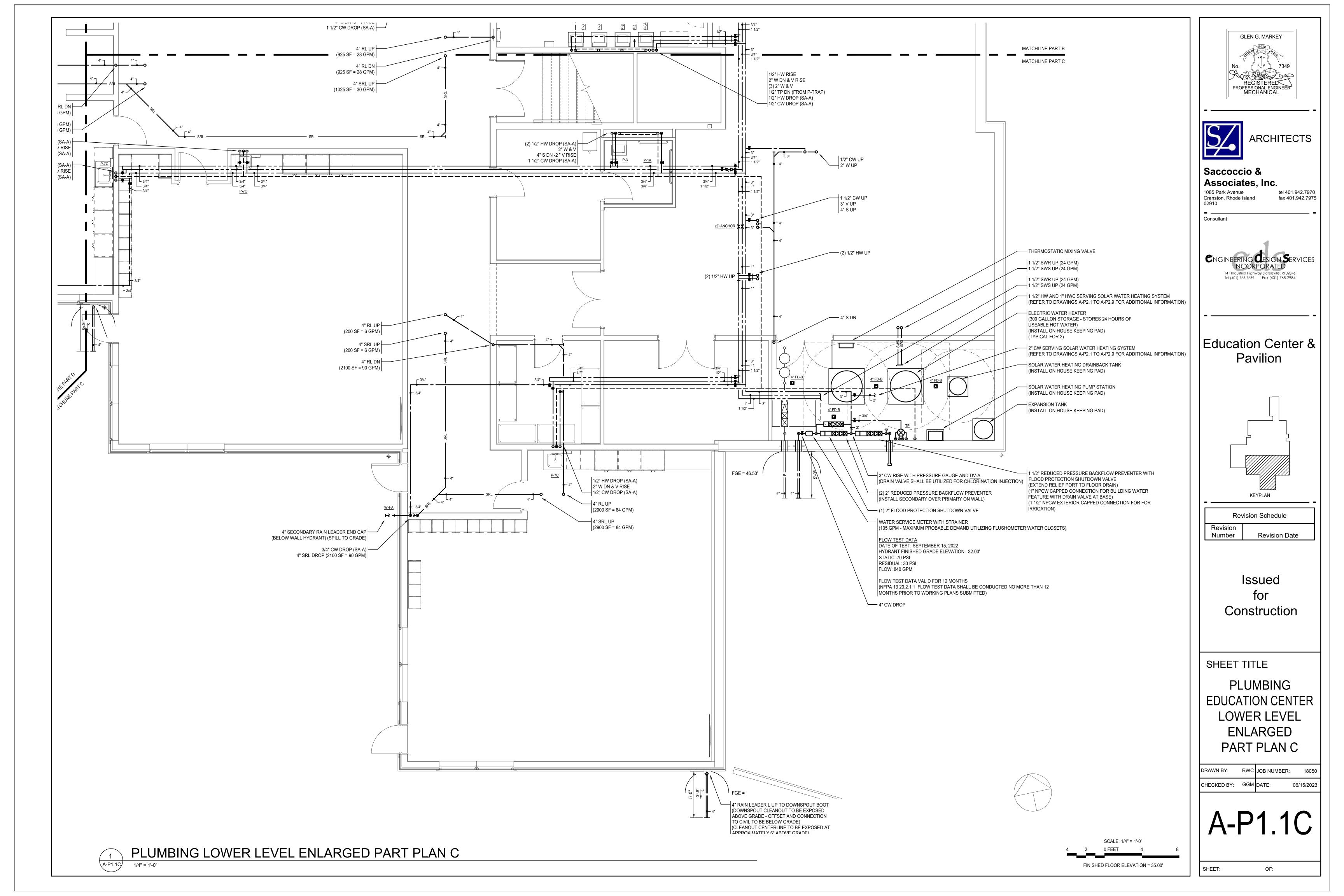






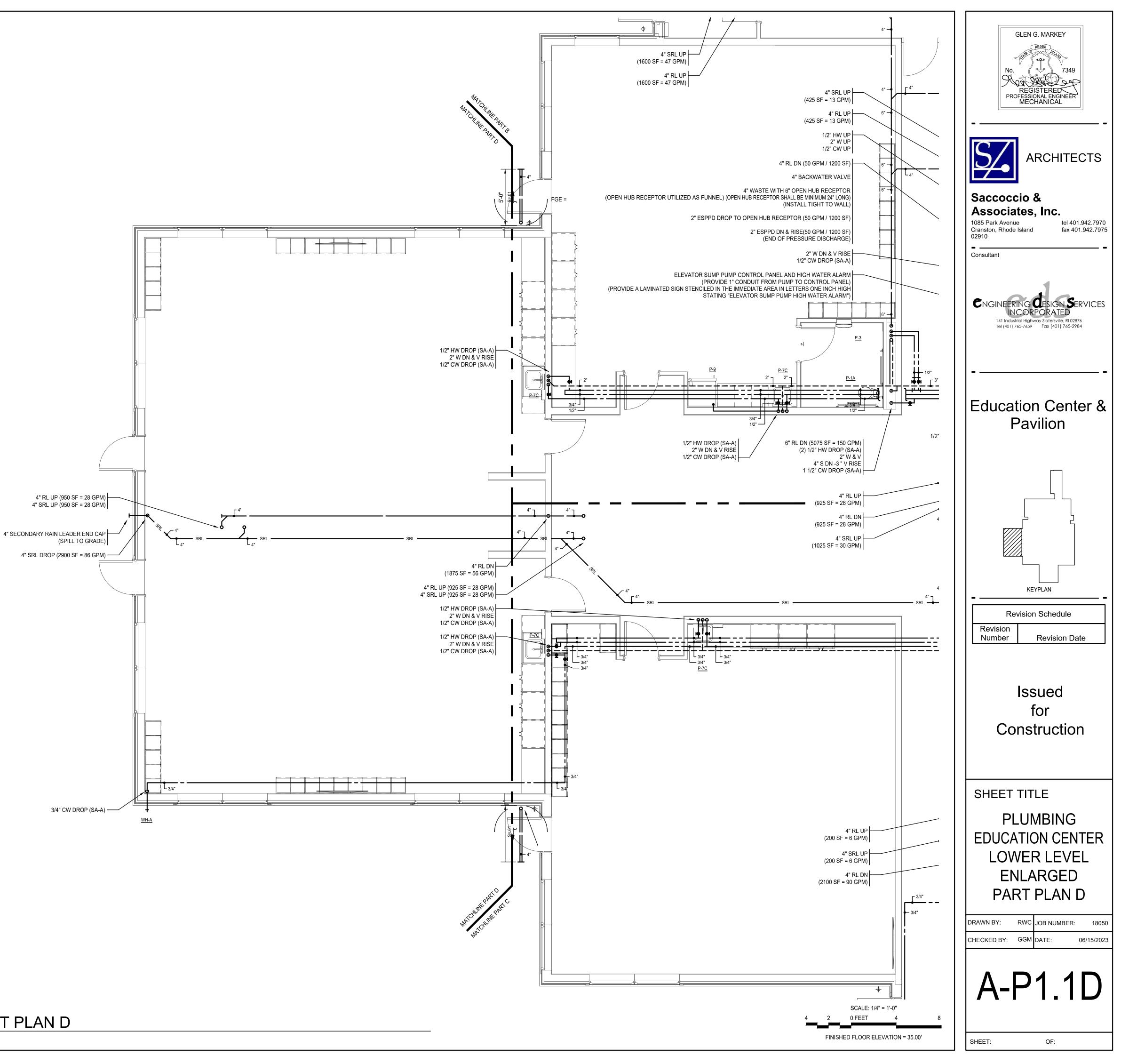


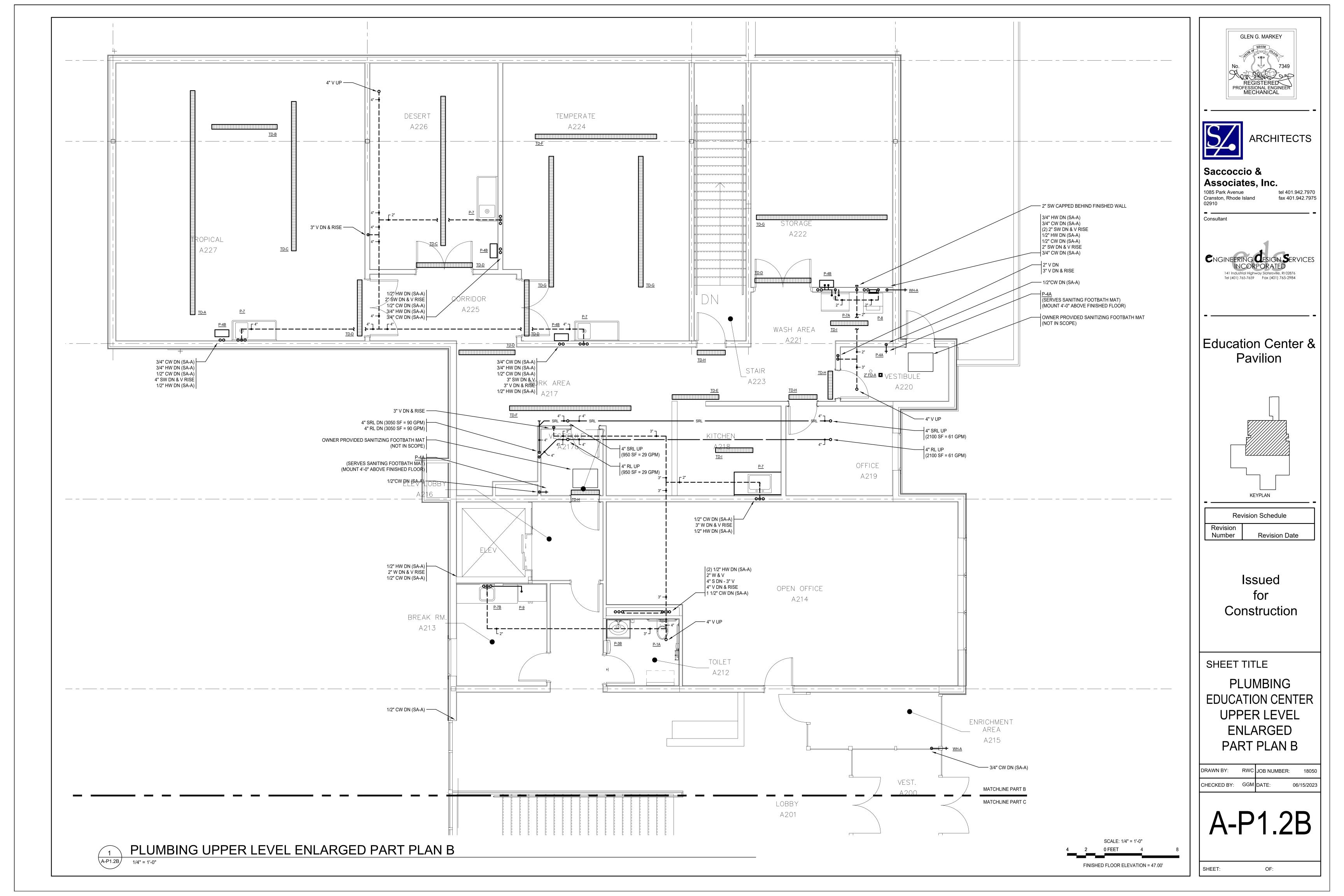




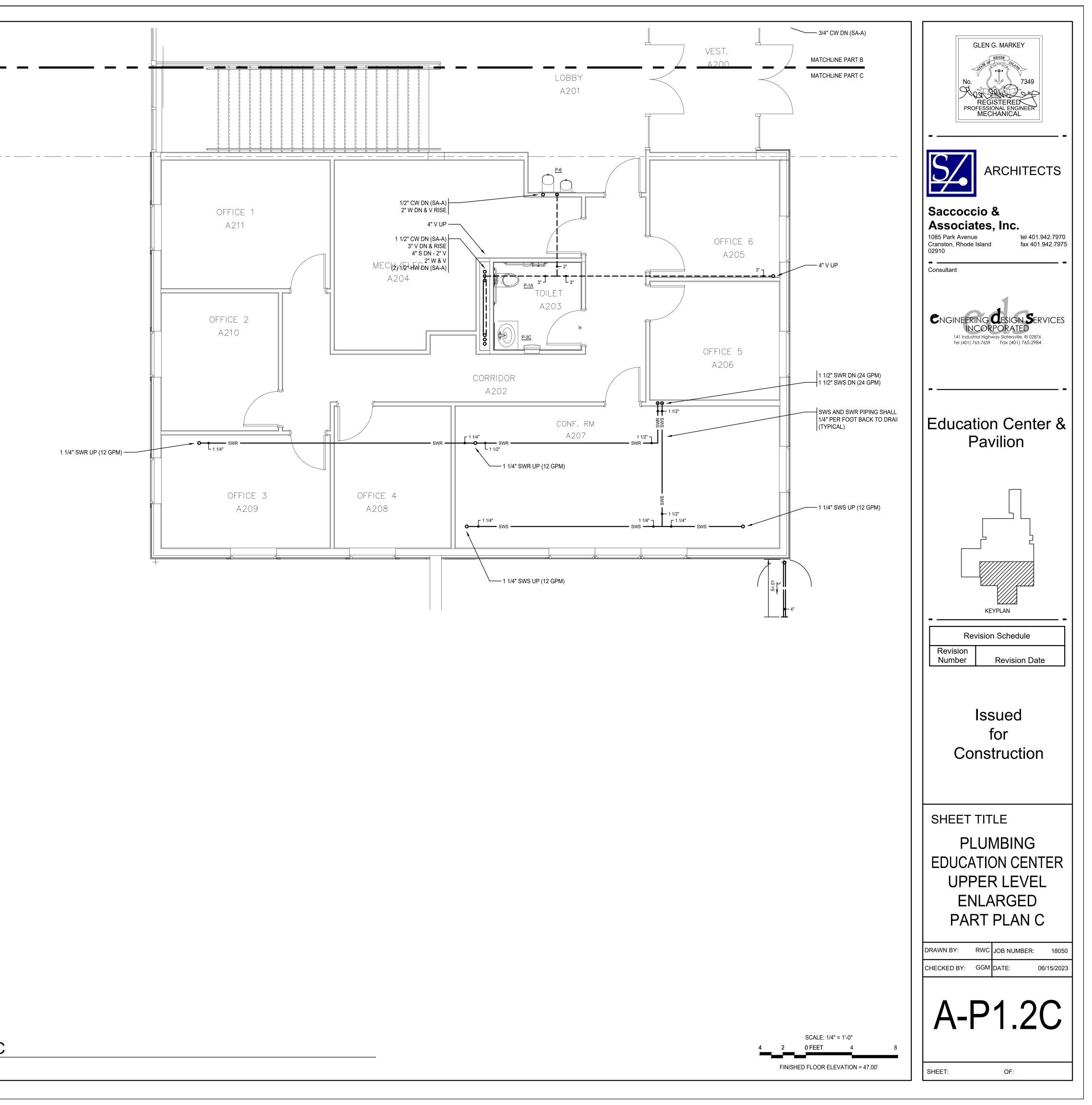


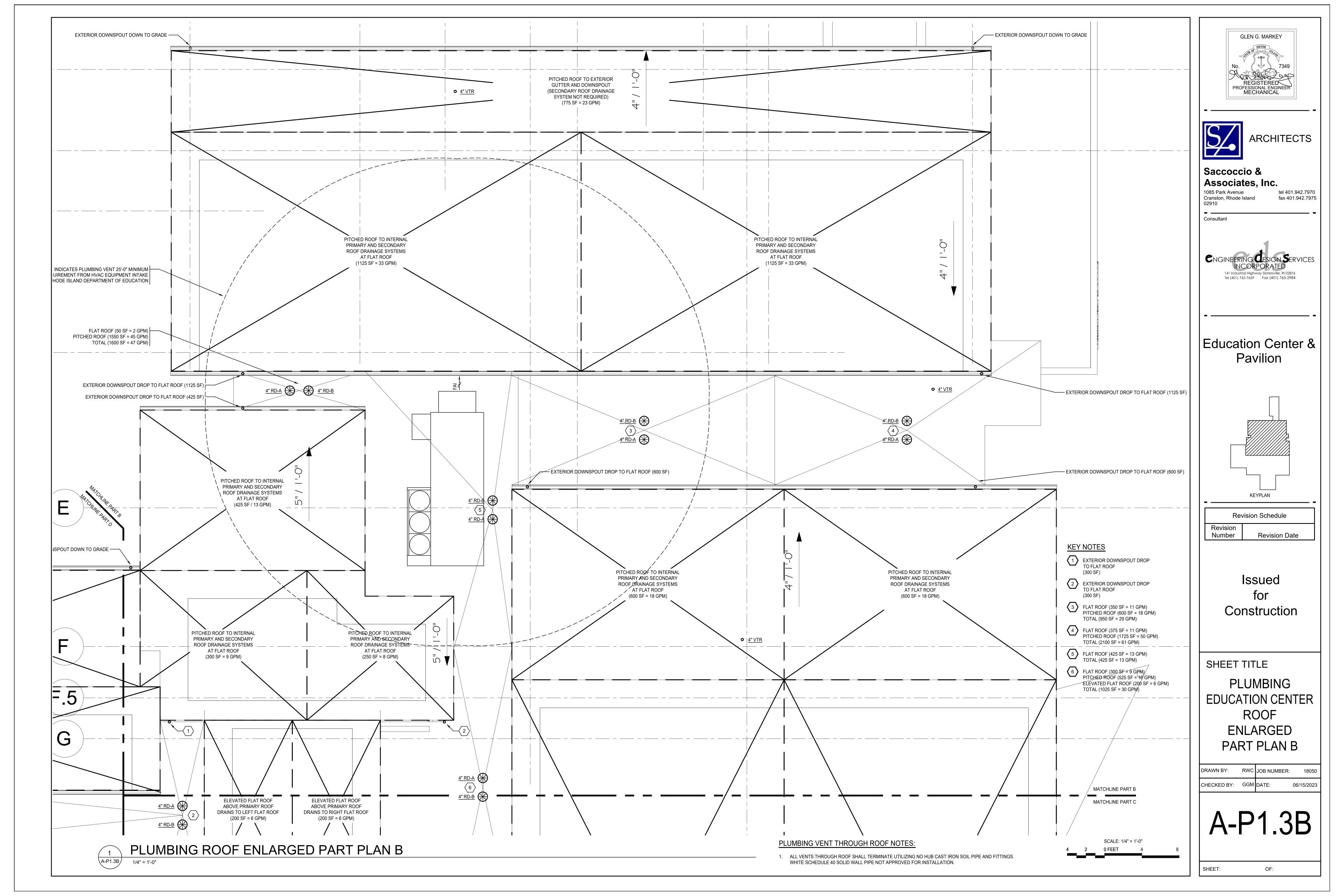
1 PLUN A-P1.1D 1/4" = 1'-0"

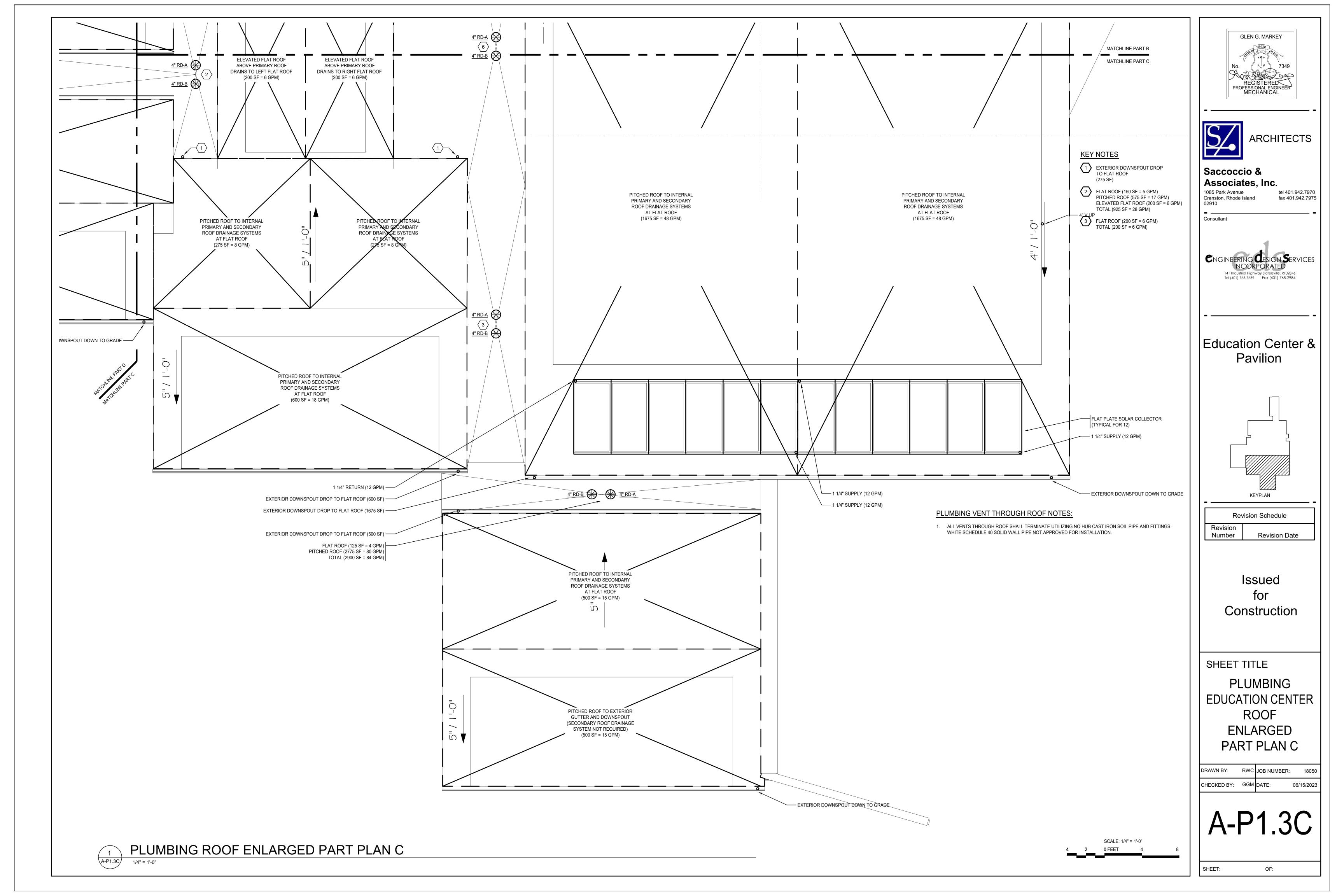








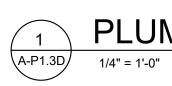




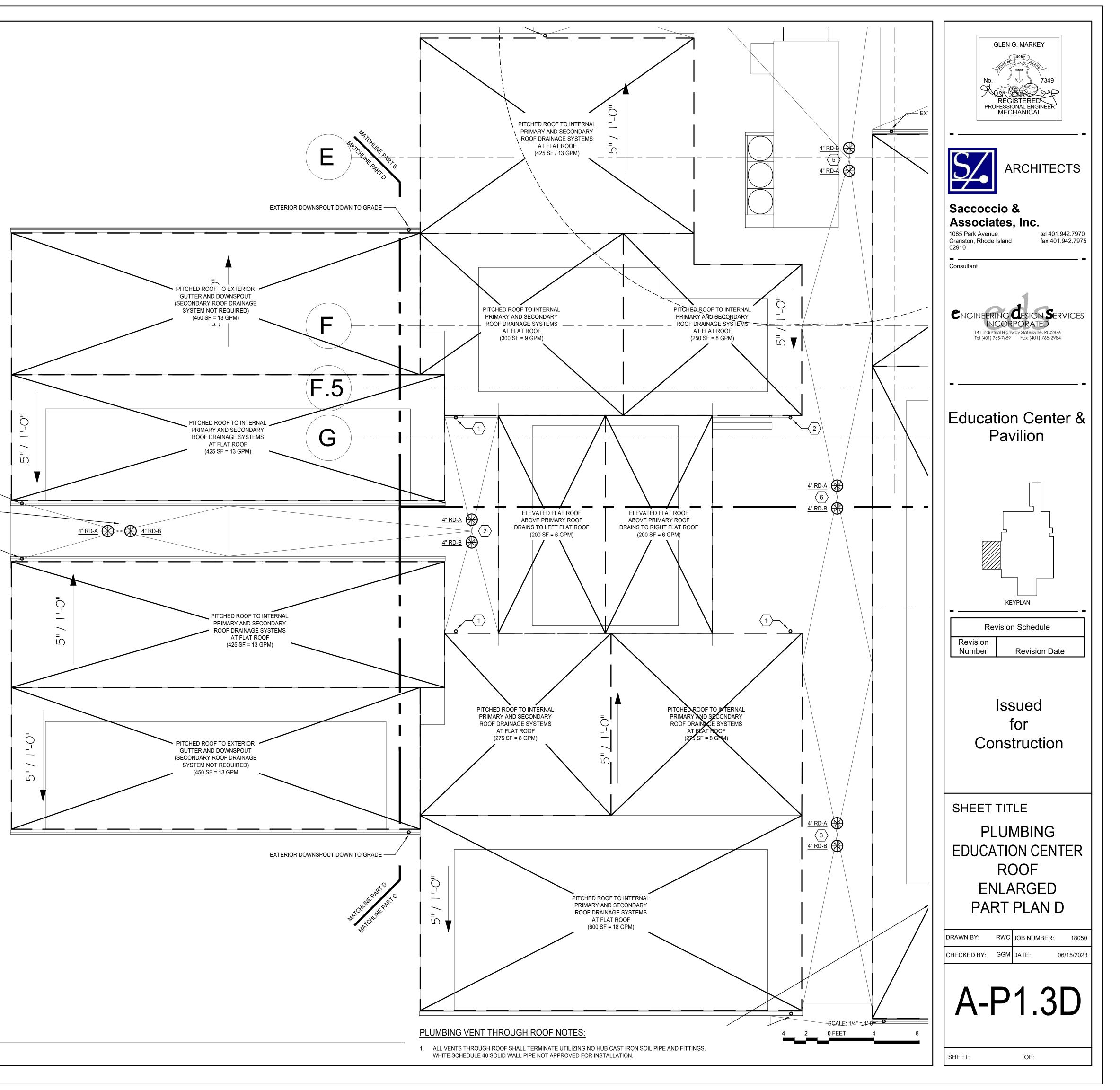
EXTERIOR DOWNSPOUT DROP TO FLAT ROOF (425 SF) -

FLAT ROOF (100 SF = 3 GPM) PITCHED ROOF (850 SF = 25 GPM) TOTAL (950 SF = 28 GPM)

EXTERIOR DOWNSPOUT DROP TO FLAT ROOF (425 SF) ----



PLUMBING ROOF ENLARGED PART PLAN D



### CONSTRUCTION SITE

1. VERIFY EXISTENCE OF AND MARK LOCATION OF ALL UNDERGROUND UTILITIES BEFORE ANY EXCAN

## HOST STRUCTURES

- 1. THE CAPACITY OF THE HOST STRUCTURE TO RESIST ALL LOADS IMPOSED BY ADDITIONAL CONSTR CURRENT STATE BUILDING CODE.
- 2. CONNECTION DETAILS SHOWN ON DRAWINGS INDICATE MINIMUM REQUIREMENTS.

### STRUCTURAL ALUMINUM

- 1. ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE CURRENT STATE BUILDING CODE OR THE A WASHINGTON, D.C. ALUMINUM DESIGN MANUAL.
- 2. ALL HOLLOW ALUMINUM EXTRUSIONS SHALL BE CAPPED ON TOP AND EXPOSED OPEN ENDS.
- 3. SPLICES OF ALL ALUMINUM STRUCTURAL MEMBERS, WHERE REQUIRED, SHALL BE ADEQUATELY OVERLAPPED, GUSSETTED, WELDED, OR SPLICED AS DETAILED, SO AS NOT TO CAUSE DETRIMENTAL IMPACT TO THE PERFORMANCE OF ANY MEMBER, COMPONENT, OR STRUCTURE.

### STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 OR ASTM A572 GRADE 50.

### STRUCTURAL LUMBER, WOOD, AND COMPONENTS

1. ALL STRUCTURAL LUMBER AND WOOD COMPONENTS SHALL BE PRESSURE TREATED, UNLESS 2. ALL STRUCTURAL CONNECTIONS SHALL BE MADE WITH SIMPSON COMPONENTS AS NOTED ON DRA

- OTHERWISE.
- 3. ALL SIMPSON COMPONENTS SHALL BE INSTALLED PER THE MANUFACTURERS INSTALLATION SHEE

### **ELECTRICAL / MECHANICAL**

1. ALL ELECTRICAL / MECHANICAL CONSTRUCTION OR MODIFICATIONS SHALL COMPLY WITH ALL CURF AND INDUSTRY STANDARDS.

### FOUNDATIONS, FOOTINGS, STEMWALLS, AND SLABS

1. ALL SLABS SHALL BE AT LEAST 3 1/2" THICK, UNLESS NOTED OTHERWISE.

- 2. COMPRESSIVE STRENGTH FOR CONCRETE FOOTINGS AND SLABS SHALL BE 2,500 POUNDS PER SQU CURING, UNLESS NOTED OTHERWISE.
- 3. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, UNLESS NOTED OTHERWISE.
- 4. ALL SLABS SHALL BE REINFORCED WITH EITHER FIBER MESH OR WELDED WIRE MESH.
- 5. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE CODE NUME REQUIREMENTS FOR REINFORCED CONCRETE".

### FASTENERS

1. ALL LAG BOLTS SHALL CONFORM TO ASTM A36.

- 2. ALL LAG BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 8x BOLT DIAMETER INTO SOUND STRUCTU 3. LAG BOLTS AND SCREWS INTO WOOD FRAMING SHALL BE PROVIDED WITH PILOT HOLES HAVING A
- 70 PERCENT OF THE THREAD DIAMETER OF THE BOLT OR SCREW. ALL LAG BOLTS AND SCREWS SI HOLES BY TURNING AND UNDER NO CIRCUMSTANCES BY DRIVING WITH A HAMMER.
- 4. ALL EXPANSION ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH THE SPECIFIC MANUFACTUR ALLOWABLE LOADS AND SHALL ONLY BE APPLIED IN CONDITIONS ACCEPTABLE TO MANUFACTURE

## SEALANT

1. ALL SEALANT SHALL CONFORM TO TT-S-001543-A, TT-S-002306, ASTM C-920 TYPE S, GRADE NS, AND

### ABBREVIATIONS

THE FOLLOWING LIST OF ABBREVIATIONS IS NOT INTENDED TO REPRESENT ALL THOSE USED ON THE SUPPLEMENT THE MORE COMMON ABBREVIATIONS USED:

- 1. TYP.= TYPICAL
- 2. EXIST.= EXISTING
- 3. CONT. = CONTINUOUS

## **CONSTRUCTION SAFETY**



VATION IS STARTED.	<ol> <li>THESE DRAWINGS DO NOT CONTAIN NECESSARY COMPONENTS FOR SAFE</li> <li>THE INSTALLER, WHETHER DIRECTLY EMPLOYED OR SUBCONTRACTED, SH SHORING &amp; GUYING OF FRAMING AGAINST WIND, CONSTRUCTION LOADS, REQUIRED FOR FRAMING SUPPORT.</li> </ol>						
RUCTION SHALL MEET THE	PROJECT SCOPE AND	NOTES					
	PROJECT NAME:	<name></name>					
	PROJECT LOCATION:	<address1> <address2></address2></address1>					
ALUMINUM ASSOCIATION OF	PROJECT WIND ZONE:	<basic speed="" wind=""> <exposure> <risk category=""></risk></exposure></basic>					

		LEG	GEND
	SYMBOLS	ABBREVIATIONS	DESCRIPTIC
	· ·	CWE	COLD WATE
RAWINGS, UNLESS NOTED		HWE	HOT WATER,
ET, UNLESS NOTED OTHERWISE.		CW	COLD WATE
		HW	HOT WATER
RRENT AND APPLICABLE CODES		CWS	COLD WATE
		HWS	HOT WATER,
	_₹_	AVM	AIR VENT, M
	-😤-	FCV	BALANCING/I
QUARE INCH MINIMUM AFTER	⊣Ф⊢	BV	BALL VALVE
	⊣ф́⊢	BV-3	BALL VALVE,
MBER 318-89, "BUILDING CODE	×-	BD	BOILER DRA
		CV	CHECK VALV
		EV	EXPANSION
URAL FRAMING.	-54-	GV	GATE VALVE
A DIAMETER NOT GREATER THAN	- <del>\\$</del>	GV-3	GATE VALVE
SHALL BE INSERTED IN PILOT	▲ <u>→</u>	P&T	P&T RELIEF
JRER'S REQUIREMENTS AND RER.	®	PG	PRESSURE C
		PRV	PRESSURE F
		Р	PUMP
D CLASS 25.	S	S	SENSOR
	0	TG	TEMPERATU
IESE DRAWINGS, BUT TO		UFM	ULTRASONIC
	-  -	U	UNION
	-11-	FC	FLANGED CC

FETY DURING CONSTRUCTION.	F G F
SHALL PROVIDE ADEQUATE TEMPOF DS, AND ALL OTHER TEMPORARY FOR	C/
	$\mathcal{Y}_{\bullet}$
	Sacco
	Assoc 1085 Park Ave Cranston, Rhc 02910 - Consultant
	8
	CNGINE
	Tel (40
)	
CRIPTIONS	
WATER, EXISTING	Educa
WATER, EXISTING	
WATER	
WATER	
) WATER, SOLAR	
WATER, SOLAR	
ENT, MANUAL	
NCING/FLOW CONTROL VALVE	
VALVE	
VALVE, 3-WAY	
ER DRAIN	F Revisior
CK VALVE	Number
NSION VALVE	
VALVE	
EVALVE, 3-WAY	
RELIEF VALVE	C
SURE GAUGE	
SURE RELIEF VALVE	
0	SHEE
SOR	F
PERATURE GAUGE	EDUC
ASONIC FLOWMETER	
Ν	WA1
GED CONNECTION	
	DRAWN BY:
	CHECKED BY:
	Δ

GLEN G. MARKEY
ARCHITECTS
Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910
ENGINEERING DESIGN SERVICES INCORPORATED 141 Industrial Highway Slatersville, RI 02876 Tel (401) 765-7659 Fax (401) 765-2984
 Education Center & Pavilion
Γανιιιοπ
Revision Schedule Revision Number Revision Date
Issued for Construction
SHEET TITLE PLUMBING EDUCATION CENTER SOLAR WATER HEATING
SYSTEM SHEET 1 OF 9DRAWN BY:RWCJOB NUMBER:18050CHECKED BY:GGMDATE:06/15/2023
A-P2.1
SHEET: OF:

SOLAF	R COLLECTOR SCH	IEDUL	E									
TAG	MFGR / MODEL	QTY	COLLECTOR DIMENSIONS	GROSS AREA SQ. FT.	NET APERTURE SQ.FT	DRY WEIGHT LBS	FLUID CAPACITY U.S. GALLONS	DESIGN FLOW RATE - GPM	DESIGN PRESSURE DROP @ DESIGN FLOW RATE - PSIG	MAX. FLOW RATE - GPM	MAX. OPERATING PRESSURE - PSIG	STD WIDT
SC-1	AET / MS-32	<b>4</b> 2x 8' M	orningstar Flat Plate Solar Collector 32			117		1.25				
NOTES	INSTALL COLLECTORS PER MANUFACTURERS RECOMMENDATIONS. INSTALLING CONTRACTOR IS RESPONSIBLE FOR ANGLE STANDS, ROOF ANCHORING FOR PANELS, AND STRUCTURAL CALCULATIONS REQUIRED FOR WINDLOADING OF COLLEC											
NOTES	COORDINATE INSTALLED COL	LECTOR H	EIGHT AND BUILDING STRUCTURE IMPA	CT FROM SOLAR	COLLECTORS WIT	H BUILDING STR	UCTURAL DESIGNER	R PRIOR TO INST.	ALLATION. COLLECTORS ARE TO	BE SRCC RATE	D.	

DRAINB	ACK RESERVOIR									
TAG	MFGR / MODEL	QTY	FUNCTION	FLUID	TOTAL VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	DIMENSIONS	MATERIAL	LABEL	REMARKS
DB-1	AET / DB-30	1	DRAINBACK RESERVOIR		30			stainless steel		

TANK	SCHEDULE								
TAG	MFGR / MODEL	QTY	FUNCTION	FLUID	STORAGE (GALLONS)	DIMENSIONS, INCHES	MATERIAL	LABEL	REMARKS
	Niles / JEV-300	\$ola	Strorage Tank		300				LEONARD TM-820-LF-DT-TC THERMOSTATIC MIXING VALVE

/IFGR / MODEL	QTY 1	SERVICE	PHYSICAL DIMENSIONS,		WEIGHT,	
	1		INCHES	VOLTS / PH	LBS	REMARKS
			34H x 16W x 10L			***COMPLETE ASSEMBLY CONTAINS THE PARTS LISTED BELOW.
		SOLAR WATER CIRCULATION				
		DOMESTIC WATER CIRCULATION				
		HEAT EXCHANGER				
LFLUX SESF-3221	1	SOLAR SYSTEM CONTROL WIFI CONNECTED	4.76" x 7.4" x 2.6"	115 / 230	.3125	(OPTION A)
					-	
LEFFI / 132662A	2	FLOW CONTROL	4 X 6.25	N/A	2.4000	
			-	-	-	
			DOMESTIC WATER CIRCULATION         HEAT EXCHANGER         FLUX SESF-3221       1         SOLAR SYSTEM CONTROL WIFI         CONNECTED	DOMESTIC WATER CIRCULATION         HEAT EXCHANGER         FLUX SESF-3221       1       SOLAR SYSTEM CONTROL WIFI CONNECTED       4.76" x 7.4" x 2.6"         LEFFI / 132662A       2       FLOW CONTROL       4 X 6.25	DOMESTIC WATER CIRCULATIONHEAT EXCHANGERHEAT EXCHANGER1FLUX SESF-32211SOLAR SYSTEM CONTROL WIFI CONNECTED4.76" x 7.4" x 2.6"LEFFI / 132662A2FLOW CONTROL4 X 6.25N/A	DOMESTIC WATER CIRCULATIONImage: constraint of the second sec

TEMPE	ERING VALVE SCH	EDULE						
TAG	MFGR / MODEL	MFGR / MODEL QTY		QTY INLET SIZE OUTLET SIZE MINIMUM MAXIMUM FLOW RATE (GPM) (GPM)	FINISH	LABEL	REMARKS	
TMV								THERMOSTATIC MIXING VALVE

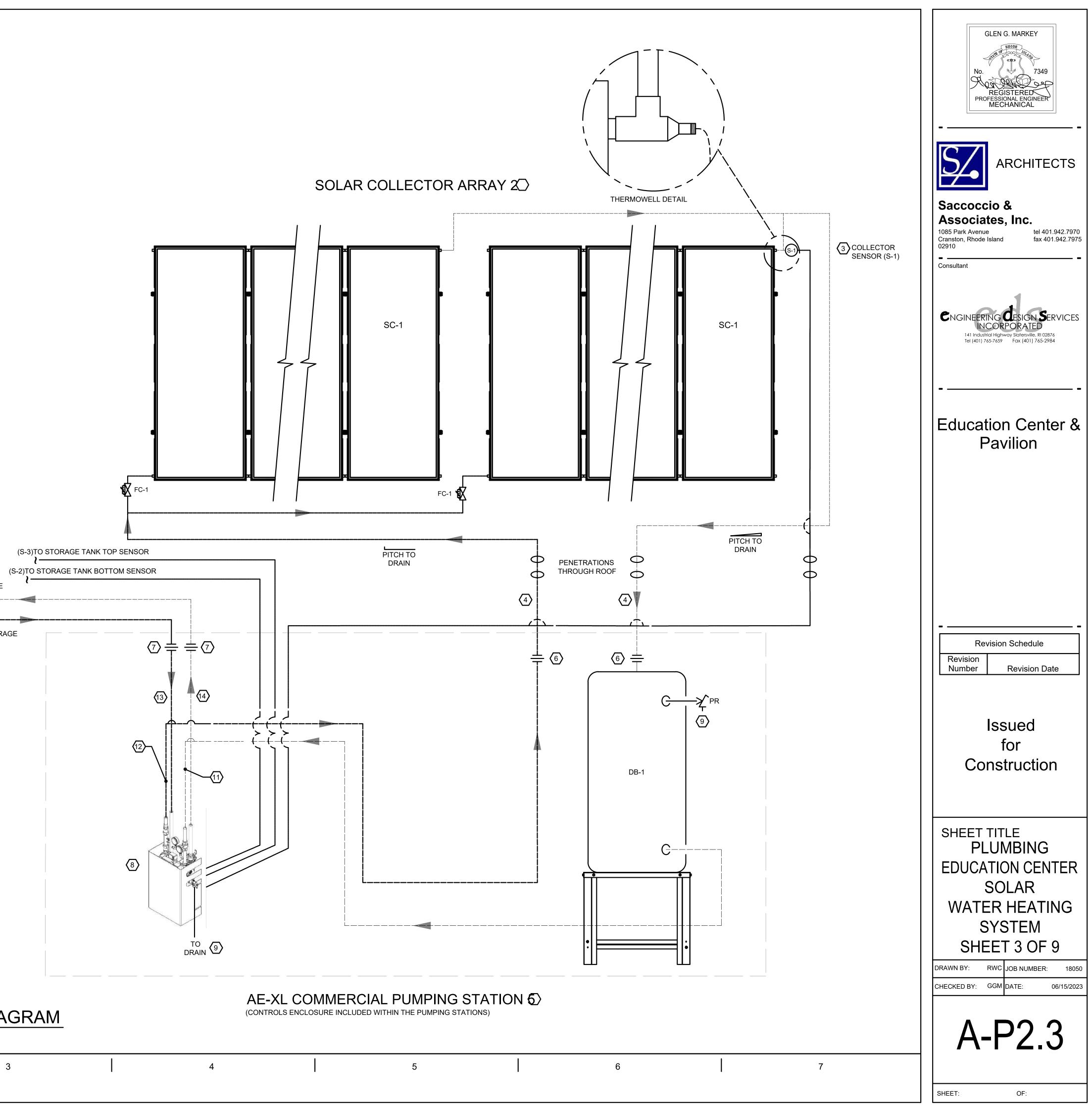


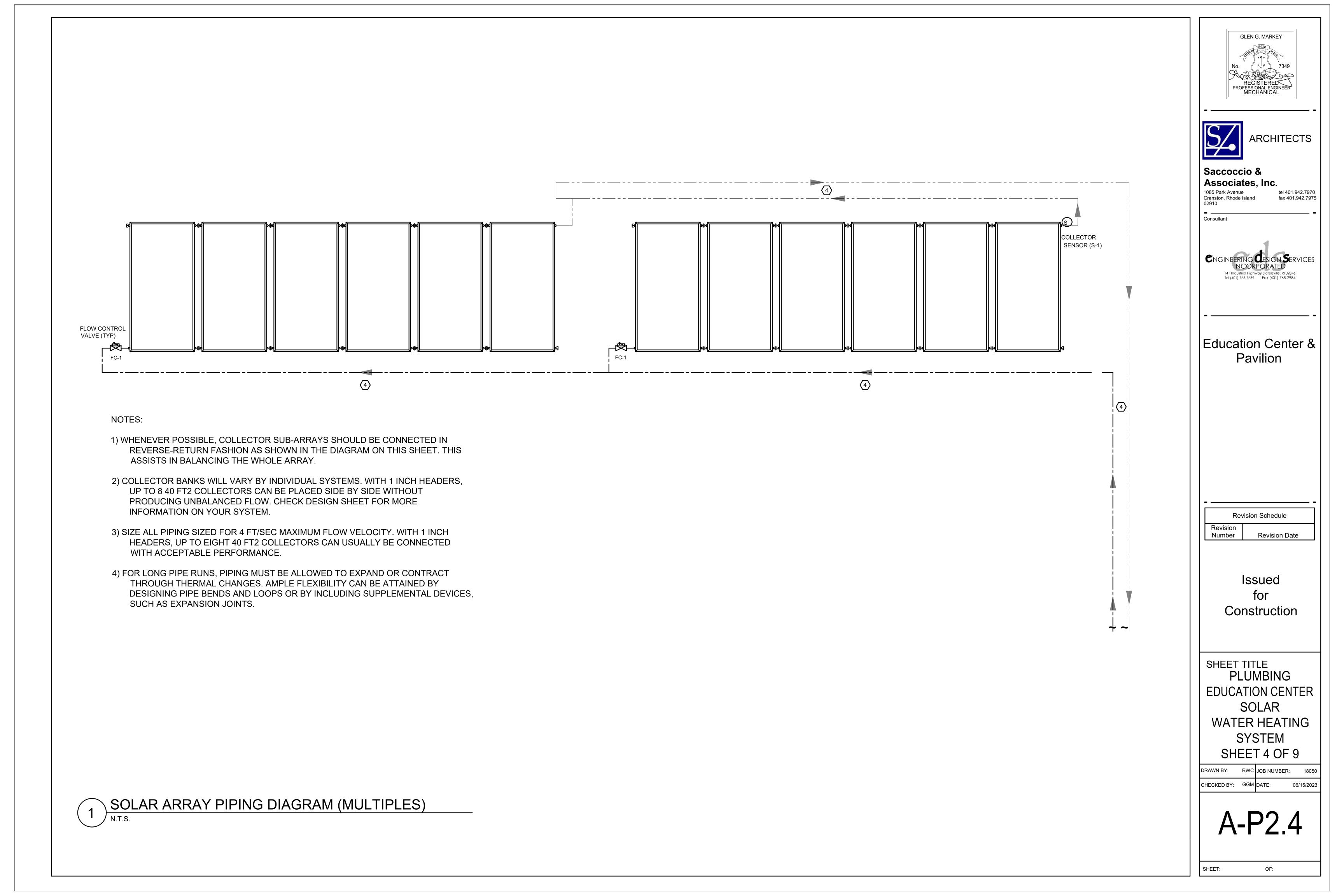
STD. HEADER WIDTH - INCHES	STD, HEADER DIA - INCHES	HEADER CENTER TO CENTER - INCHES	
	DIA - INCHES	CENTER - INCHES	-
LLECTORS AND AN	NCHORING.		
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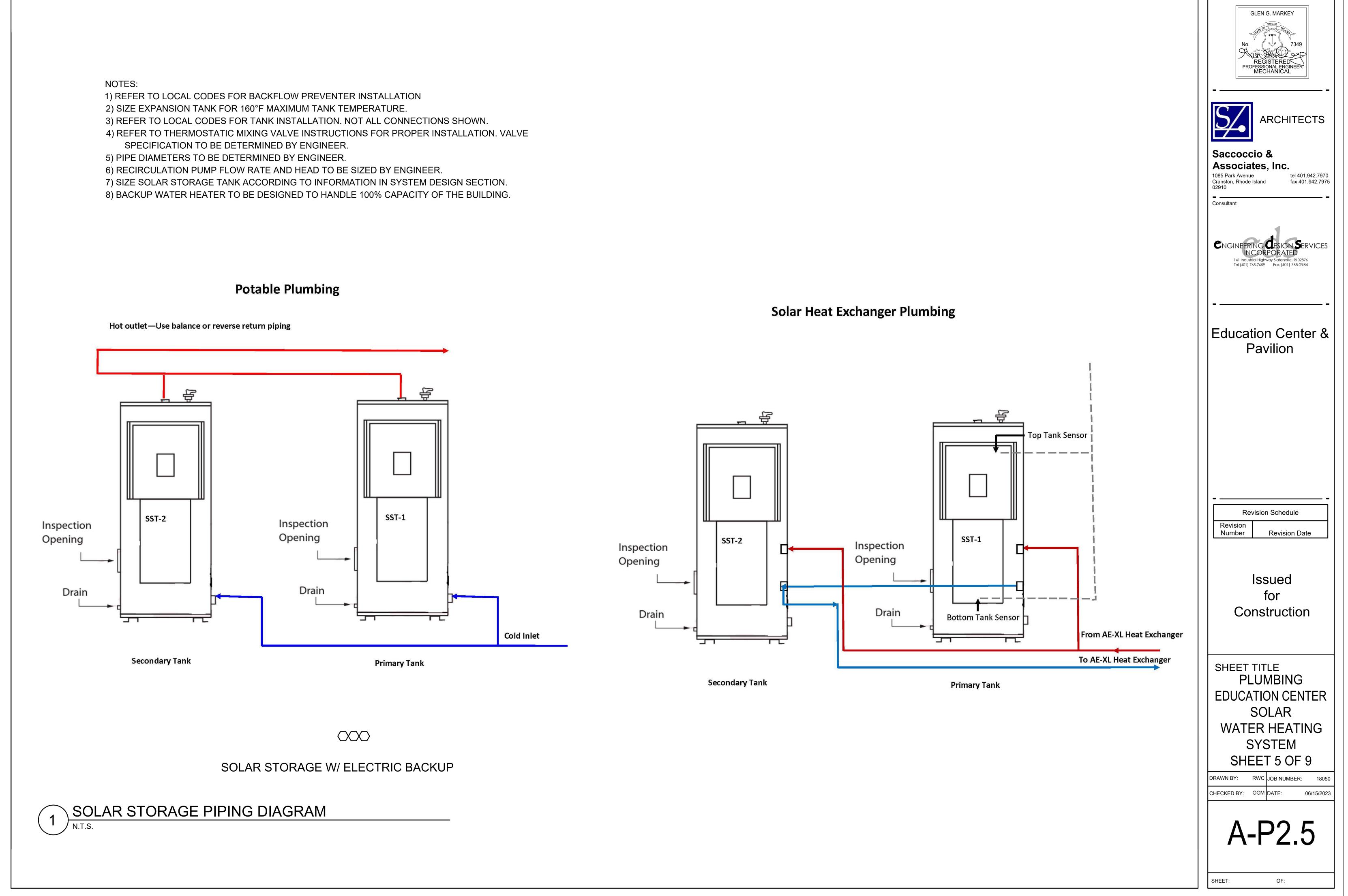
GLEN G. MARKEY
ARCHITECTS Saccoccio & Associates, Inc.
1085 Park Avenue       tel 401.942.7970         Cranston, Rhode Island       fax 401.942.7975         02910       -         Consultant       -         Consultant       -         Consultant       -
Incorporated 141 Industrial Highway Slatersville, RI 02876 Tel (401) 765-7659 Fax (401) 765-2984
Education Center & Pavilion
Revision Schedule Revision Number Revision Date
Issued for Construction
SHEET TITLE PLUMBING EDUCATION CENTER SOLAR SOLAR WATER HEATING SYSTEM SHEET 2 OF 9 DRAWN BY: RWC JOB NUMBER: 18050 CHECKED BY: GGM DATE: 06/15/2023
A-P2.2

OF:

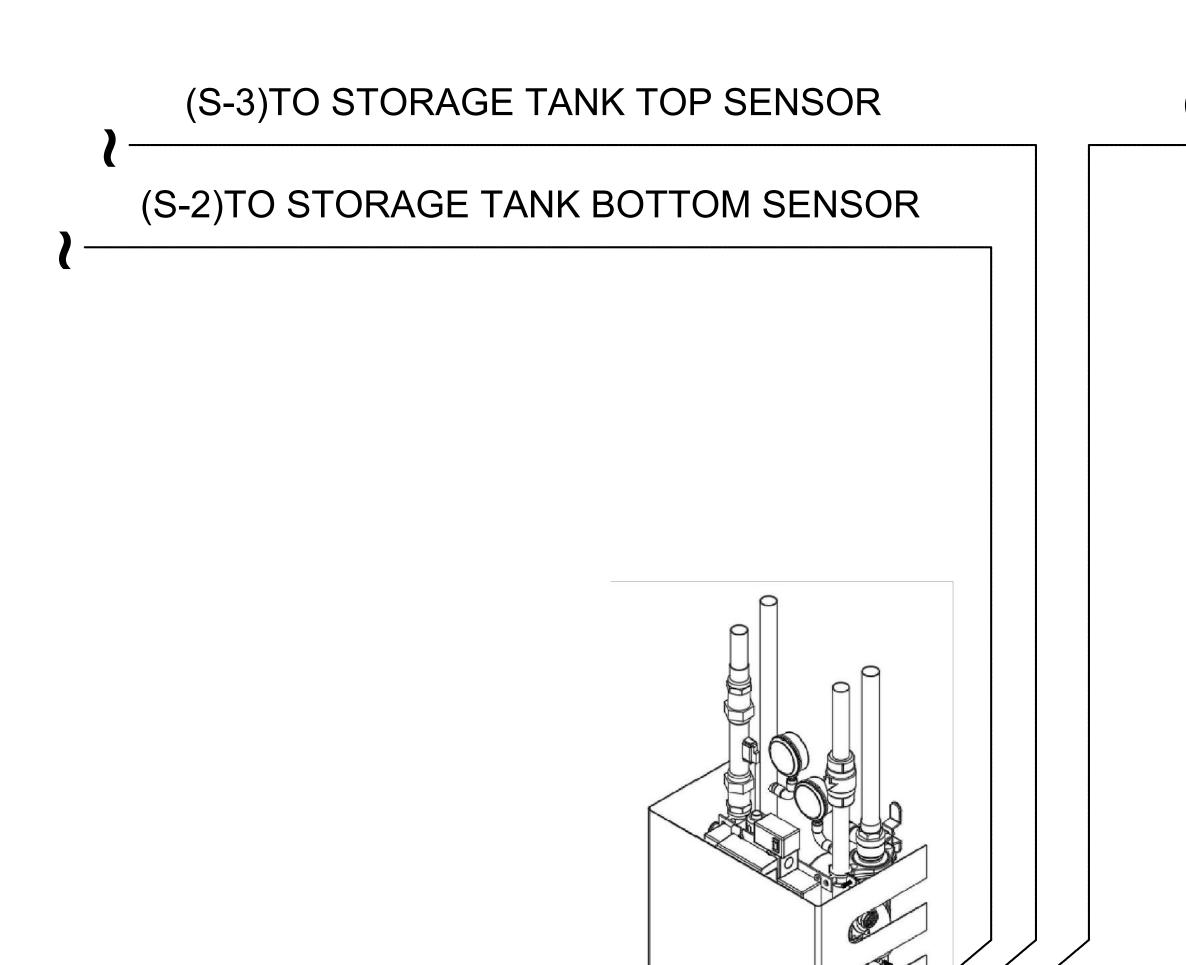
A	NOTES:	
	1) INSTALL COMPONENTS CONSISTENT WITH LOCAL PLUMBING CODE. IF A DIFFERENCE BETWEEN THIS DIAGRAM AND THE LOCAL PLUMBING REGULATIONS EXISTS, THE PLUMBING CODE TAKES PRECEDENT.	
-	<ul> <li>2) COLLECTOR BANKS WILL VARY BY INDIVIDUAL SYSTEMS. SEE SHEET 4 FOR ADDITIONAL INFORMATION.</li> </ul>	
	3) SENSOR MAY BE INSTALLED ON THE OUTLET OF ANY COLLECTOR BANK. SEE PAGE 4 FOR MORE INFORMATION ON TEMPERATURE SENSOR.	
В	4) SIZE ALL PIPING SIZED FOR 4 FT/SEC MAXIMUM FLOW VELOCITY. SEE SHEET 4 FOR ADDITIONAL INFORMATION.	
_	5) ALL COMPONENTS WITHIN THE DOTTED LINE INDICATES THE PUMP STATION ASSEMBLY. COMMERCIAL PUMP STATIONS COME PRE-ASSEMBLED IN THIS CONFIGURATION.	
	6) SOLAR CONNECTIONS ARE SIZED TO ALLOW FOR ACCEPTABLE CONNECTION OF THE PUMPING STATION TO COLLECTOR / FROM COLLECTOR.	
n.awg	7) DHW CONNECTIONS ARE SIZED TO ALLOW FOR ACCEPTABLE CONNECTION OF THE PUMPING STATION TO THE EXISTING DHW SUPPLY / RETURN PIPING.	
age - AE-XL System.dwg ∩	8) AE-XL PUMP STATION, WHICH INCLUDE PLATE AND FRAME HEAT EXCHANGERS, PRESSURE GAGES, TEMPERATURE GAGES, FLOW METER, ISOLATION VALVES, PRESSURE RELIEF VALVES, CHECK VALVES, PUMPS AND CONTROLLER.	HOT TO STORAGE TANK TANK COLD FROM STOR
<ul> <li>Pressurized Storage</li> </ul>	9) ROUTE RELIEF VALVE DISCHARGE TO APPROPRIATE LOCATION. HTF IS RELEASED FROM THE VALVE AND LOCAL REGULATIONS MAY REQUIRE THAT THIS BE COLLECTED AND NOT ALLOWED TO GO DOWN THE DRAIN.	
rainback	10) POTABLE WATER TIE IN.	
. ASIVIE I anks\Engineering\CADD\Drainback	11) FROM COLLECTOR 12) TO COLLECTOR 13) FROM STORAGE TANK 14) TO STORAGE TANK	
= 1anks\Engli	_	
FOL		
Jommercial Package ⊡		
۲ P		
NProjects/New	DRAINBACK - PRESSURIZED STORAGE	- AE-XL DIA











# **AE-XL PUMPING STATION** (CONTROLS ENCLOSURE INCLUDED WITHIN AE-XL PUMPING STATION)

120 VAC

# (S-1)TO COLLECTOR SENSOR



GLEN G. MARKEY No. REGISTERED PROFESSIONAL ENGINEER MECHANICAL
ARCHITECTS ARCHITECTS Saccoccio & Associates, Inc.
Cranston, Rhode Island fax 401.942.7975 02910 Consultant Consultant CNGINEERING CESIGN SERVICES INCORPORATED
- Fax (401) 765-2984 - Education Center & Pavilion
Revision Schedule
Number       Revision Date         Issued       for         Construction
SHEET TITLE PLUMBING EDUCATION CENTER
SOLAR WATER HEATING SYSTEM SHEET 6 OF 9 DRAWN BY: RWC JOB NUMBER: 18050 CHECKED BY: GGM DATE: 06/15/2023
A-P2.6

SHEET:

OF:

# **DESCRIPTION AND OPERATION OF SOLAR HOT WATER SYSTEM:** DRAINBACK - PRESSURIZED STORAGE - AE-XL

### SYSTEM DESCRIPTION

- DRAINBACK SYSTEMS OFFER FREEZE PROTECTION AND HIGH-LIMIT PROTECTION BECAUSE THE COLLECTORS EMPTY BY GRAVITY WHEN THE SYSTEM PUMP IS NOT OPERATING. SINCE THESE DIFFERENTIALLY CONTROLLED SYSTEMS OFTEN USE PLAIN WATER AS THE HEAT TRANSFER FLUID.
- IN SOME HARD FREEZING CLIMATES, A MIXTURE OF 30% PROPYLENE GLYCOL MAY BE USED OR REQUIRED TO ENSURE FREEZE PROTECTION IN THE EVENT OF CONTROLLER FAILURE OR THE PIPING NOT DRAINING COMPLETELY.
- WHEN INSTALLED CORRECTLY, DRAINBACK SYSTEMS PROVIDE A FAIL-SAFE METHOD FOR PROTECTING THE COLLECTORS AND PIPING FROM FREEZE DAMAGE AND THE SYSTEM FROM OVERHEATING. EACH TIME THE DIFFERENTIALLY CONTROLLED SOLAR PUMP SHUTS OFF, ALL FLUID IN THE SLIGHTLY TILTED COLLECTOR ARRAY AND PIPES DRAINS INTO AN INSULATED RESERVOIR TANK LOCATED IN THE BUILDING'S INTERIOR. THE HEAT EXCHANGER IS IN THE INSIDE AT THE BOTTOM OF THIS DRAINBACK RESERVOIR TANK OR INTEGRATED INTO THE BOTTOM OF THE STORAGE TANK.
- THE DRAINBACK RESERVOIR IS INSTALLED ON THE SOLAR LOOP AND IS SIZED TO HOLD THE TOTAL VOLUME OF HEAT TRANSFER FLUID IN THE COLLECTOR ARRAY AND EXPOSED PIPING. THE RESERVOIRS ARE AVAILABLE IN SIZES FROM 10 GALLONS TO 80 GALLONS AND ARE DESIGNED TO HOLD THE FLUID OF 1 TO 28 COLLECTORS PLUS THE VOLUME OF FLUID IN TOTAL LENGTH OF THE SOLAR LOOP. MOST SOLAR COLLECTORS HAVE A FLUID CAPACITY OF APPROXIMATELY 1 TO 1.5 GALLONS PER COLLECTOR.
- THE SOLAR LOOP IS CLOSED TO THE ATMOSPHERE AND HAS A MEASURED VOLUME OF FLUID AND MEASURED VOLUME OF AIR. THIS SYSTEM DOES NOT REQUIRE AIR VENTS OR VACUUM BREAKERS. THE AIR IN THESE SYSTEMS SHOULD NOT BE ADDED TO OR RELEASED.
- THE AIR IS TRANSFERRED TO THE RESERVOIR TANK WHEN THE PUMP IS RUNNING AND THE HEAT TRANSFER FLUID FILLS THE COLLECTORS. THE PUMP IS NEVER WITHOUT WATER SINCE THE PUMP IS LOCATED BELOW THE LOWEST WATER LEVEL WHEN FULLY DRAINED. WHEN THE PUMP SHUTS OFF, THE AIR IN THE RESERVOIR IS FORCED UP AND INTO THE TOP OF THE COLLECTORS BY THE WATER DRAINING BACK INTO THE RESERVOIR FROM THE BOTTOM OF THE COLLECTORS.
- THE PUMPS MUST BE SIZED CORRECTLY TO OVERCOME GRAVITY AND FRICTION LOSSES.
- · SINCE THE SYSTEM IS NOT PRESSURIZED, EXPANSION TANKS AND CHECK VALVES IN THE COLLECTOR LOOP ARE NOT REQUIRED. · COLLECTORS AND PIPE DRAINS MUST BE INSTALLED TO ALLOW PROPER AND UNIMPEDED DRAINAGE BACK TO THE DRAIN BACK **RESERVOIR**.



### **SEQUENCE OF OPERATION**

THE CONTROL WILL ENERGIZE THE CIRCULATION PUMP(S) WHEN THE TEMPERATURE DIFFERENTIAL BETWEEN THE COLLECTOR SENSOR (S-1) AND THE STORAGE TANK SENSOR (S-2) EQUALS THE PROGRAMMED ON-DIFFERENTIAL SETTING (ON DIFFER) ON THE CONTROL, TYPICALLY 12° F AND THE TEMPERATURE AT S-1 IS GREATER THAN THE COLLECTOR LO LIMIT (COLL LO LIM) SETTING, TYPICALLY 70° F. IF THE TEMPERATURE AT S-1 IS GREATER THAN THE PROGRAMMED MAX, THE SYSTEM WILL NOT ENERGIZE. THIS IS A SAFETY FEATURE TO PREVENT OVERHEATING OF THE HEAT TRANSFER FLUID.

THE TANK LOOP PUMP (PMP-2), IF USED, WILL RUN AT FULL SPEED FOR AS LONG AS THE PUMP(S) ARE ENERGIZED. THE COLLECTOR LOOP PUMP (PMP-1) WILL RUN AT FULL SPEED AS LONG AS THE PUMP(S) ARE ENERGIZED.

THE MINIMUM RUNNING TIME FOR THE PUMP(S) IS 2 MINUTES. WHEN THE TEMPERATURE DIFFERENTIAL FALLS BELOW THE OFF-DIFFERENTIAL SETTING (OFF DIFFER), TYPICALLY 4° F, THE PUMP(S) WILL SHUT OFF. THE PUMP(S) WILL REMAIN OFF FOR THE TIME PERIOD DESIGNATED BY THE PUMP MINIMUM OFF TIME SETTING (MIN OFF TIME), TYPICALLY 3 MINUTES. WHEN THE TEMPERATURE AT S-2 REACHES THE STORAGE HI-LIMIT SETTING (STORE HI LIM), TYPICALLY 145° F, THE PUMP(S) WILL SHUT OFF AND REMAIN OFF UNTIL THE TEMPERATURE AT S-2 FALLS BELOW THE STORAGE HI-LIMIT SETTING AND ALL OTHER CONDITIONS FOR RE-ENERGIZING THE PUMP(S) IS MET.

### HOLIDAY FEATURE:

WHEN ACTIVATED, THIS FEATURE ALLOWS FOR CONTINUED PUMP OPERATION ABOVE THE STORAGE HIGH LIMIT TEMPERATURE, UNTIL THE TEMPERATURES FALL OFF AND THE HOLIDAY FEATURE SETTING (HOLIDAY MODE) IS REACHED. THE RECOMMENDED

### **BTU CALCULATION:**

BTU'S ARE CALCULATED USING THE DELTASOL BX OR SOLFLUX SESF-3221 MONITORING SYSTEM AND DATA DERIVED FROM THE TEMPERATURE SENSORS LOCATED AT THE COLLECTOR LOOP HEAT EXCHANGE INPUT (S-1), THE COLLECTOR LOOP HEAT EXCHANGE OUTPUT (S-2), THE STORAGE TOP OF TANK (S-3), AND THE COLLECTOR LOOP FLOW SENSOR (FLOW1).

### **COMMUNICATIONS:**

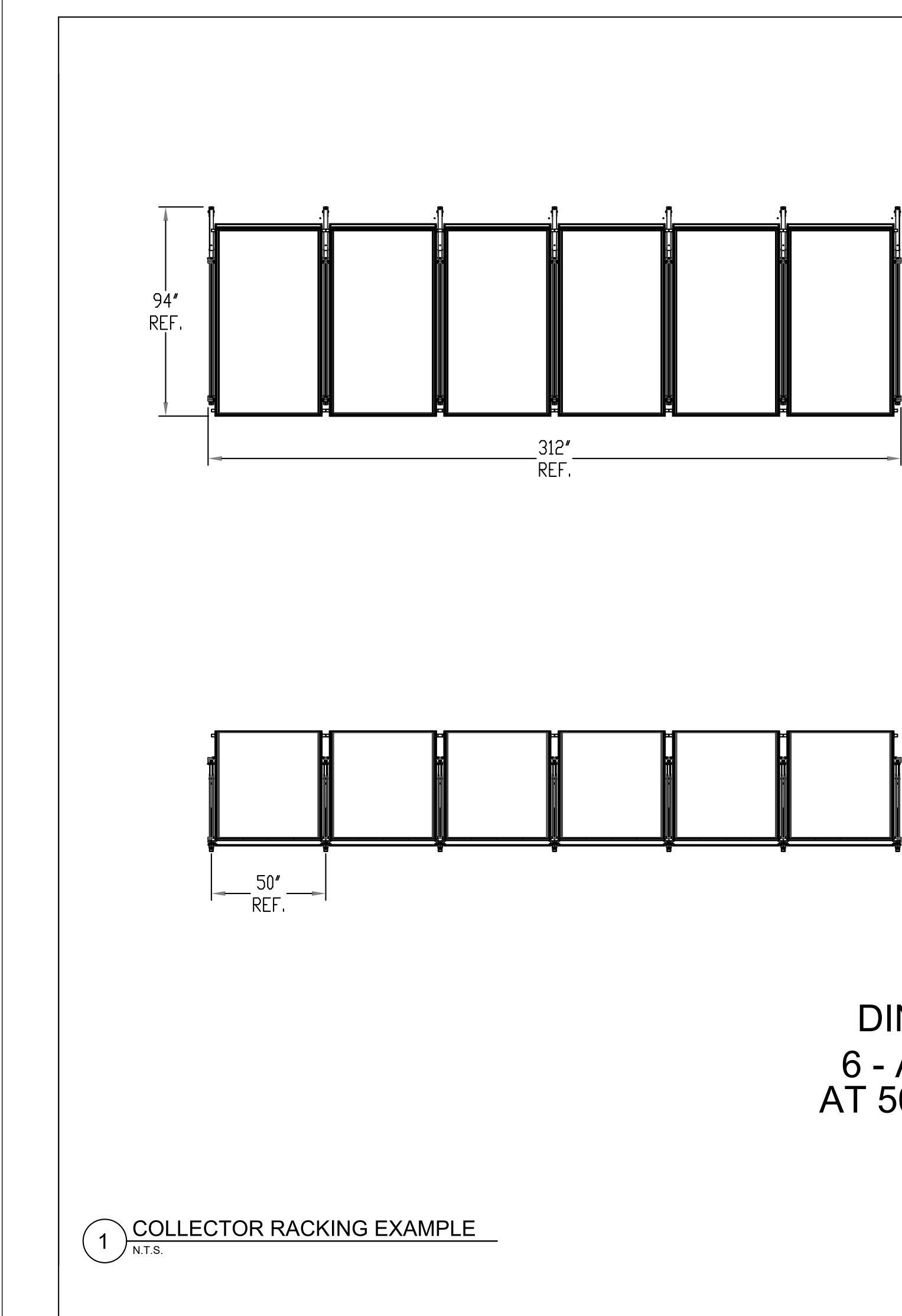
THE DELTASOL BX WITH RESOL DL2 PLUS AUTOMATICALLY INTERFACES TO THE BACNET WEB PORTAL VIA STANDARD ETHERNET TO PRESENT REAL-TIME AND HISTORICAL DATA. WEB PORTALS ARE ACCESSIBLE ANYWHERE THERE IS A WEB-BROWSER AND INTERNET CONNECTION.

### OR

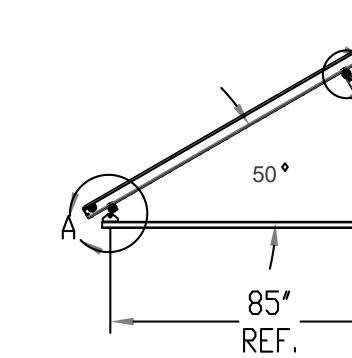
THE SOLFLUX INTERFACES VIA WIFI CONNECTION TO THE HBX SENSORLINKS APP.

GLEN G. MARKEY
ARCHITECTS ARCHITECTS Saccoccio & Saccoccio & Associates, Inc. 1085 Park Avenue Cranston, Rhode Island 02910
Consultant CONGINEERING DESIGN SERVICES INCORPORATED 141 Industrial Highway Slatersville, RI 02876 Tel (401) 765-7659 Fax (401) 765-2984
Education Center & Pavilion
Revision Schedule Revision Number Revision Date
Issued for Construction
SHEET TITLE PLUMBING EDUCATION CENTER SOLAR SOLAR WATER HEATING SYSTEM SHEET 7 OF 9 DRAWN BY: RWC JOB NUMBER: 18050 CHECKED BY: GGM DATE: 06/15/2023
A-P2.7

SHEET:

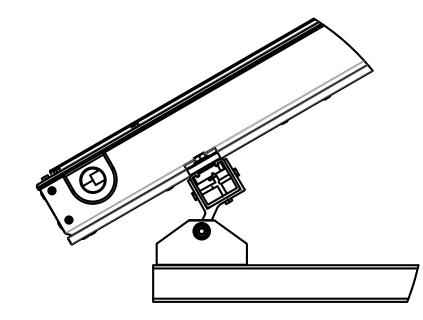


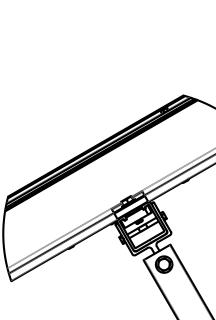
# DINORACK 6 - AE / MS-32 AT 50 DEGREES

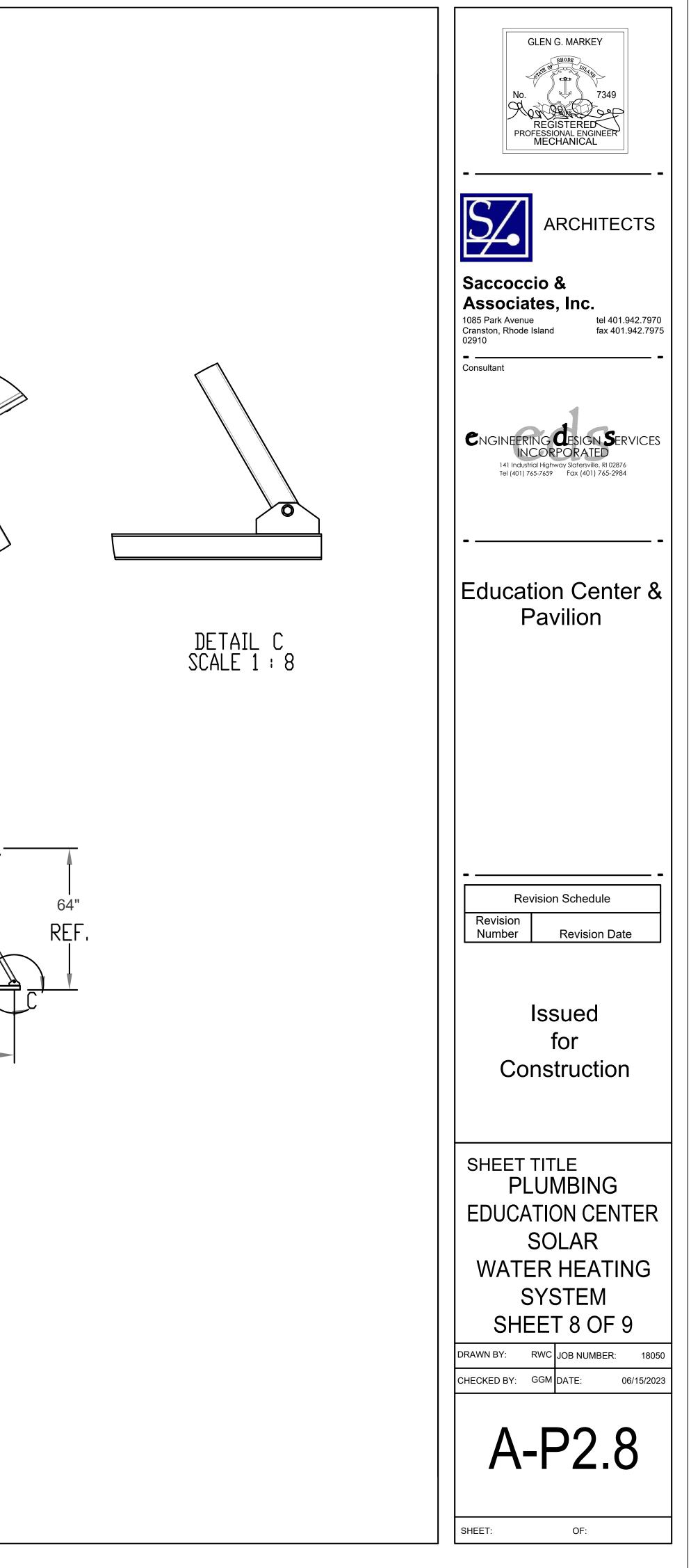












23 56 00 - SOLAR ENERGY HEATING EQUIPMENT 23 56 16 - PACKAGED SOLAR HEATING EQUIPMENT

### PART 1 GENERAL

- 1.1 REFERENCES
- A. Solar Collectors
- B. Solar Collector Mounting Hardware
- C.Solar Storage Tanks
- D. Solar Pump Station and Controllers
- E. Heat Transfer Fluid
- F. Pipe System and Insulation
- G.Balancing Valves
- 1.2 RELATED SECTIONS
- A. Section 06 10 00 Rough Carpentry: Framing and roof sheathing
- B. Section 07 21 00 Thermal Insulation
- C. Section 07 26 00 Vapor Retarders
- D. Section 07 00 00 Roofing and Flashing: Flashing of roof mounted solar panel connections
- E. Section 22 11 16 Domestic Water Piping
- F. Section 22 33 00 Electric Domestic Water Heaters
- G.Section 26 05 83 Wiring Connections: Execution requirements for electric connections specif by this section

# 1.3 REFERENCES

- A.Referenced Standards
- 1. American National Standards Institute (ANSI):
- a. ANSI Z21.22 Relief Valves for Hot Water Supply Systems
- 2. American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE): a. ASHRAE 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings
- 3. American Society for Testing and Materials (ASTM): a. ASTM E 330 Standard Test Method for Structural Performance of Exterior Windows,
- Doors, Skylights and Curtain Walls by Uniform Static Air Pressure 4. American Society of Safety Engineers (ASSE):
- a. ASSE 1017 Temperature Actuated Mixing Valves for Hot Water Distribution 5. Solar Rating and Certification Corporation (SRCC):
- a. SRCC OG-100 Operating Guidelines and Minimum Standards For Certifying Solar Thermal Collectors
- DESIGN / PERFORMANCE REQUIREMENTS 1.4
- A. Solar Collectors shall be provided with a SRCC OG-100 rating label or nameplate certifying t Solar Collector Certification and Rating for each collector. Solar collectors shall have a minim SRCC Category "C", Clear Day, performance rating of 1,000 Btu/day per square foot of collector net aperture.
- B. Systems must be safe, reliable, require no operator intervention for normal operation, be visually unobtrusive, and be designed and installed in accordance with all applicable codes.
- 1. Solar collectors shall be oriented within 45 degrees of south.
- 2. Solar collectors shall be pitched within 15 to 60 degrees from horizontal

### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
- 1. Preparation instructions and recommendations
- 2. Storage and handling requirements and recommendations
- 3. Installation methods
- C.Shop Drawings: Indicate manufactured assembly's system components and control schemati solar collector installation, layout, weights, mounting and support details, flashings, heat exchanger and pump installation, storage and expansion tank installation, vents, valves, interconnecting piping, insulation and instrumentation.
- D. Operation and Maintenance Data: Provide with spare parts lists, procedures, treatment programs and schematic showing the complete system layout. Include operating instructions with preventative maintenance procedures, methods of checking the system for normal safe operation, and procedures for starting and stopping the system.
- E. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- F. Field Test Reports: Submit reports of piping hydraulic pressure test and commissioning. Inclu collector model number and serial numbers, storage tank model and serial number, expansio tank pressure, system pressure, system flow rate, percent propylene glycol to water, solar loo temperature setting, and backup system temperature setting. Include results of acceptance testing.
- G.Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking and periodic cleaning and maintenance of all components.
- 1.6 QUALITY ASSURANCE
- A.Manufacturer Qualifications
- 1. Company specializing in manufacturing products specified in this section with minimum three years documented experience.

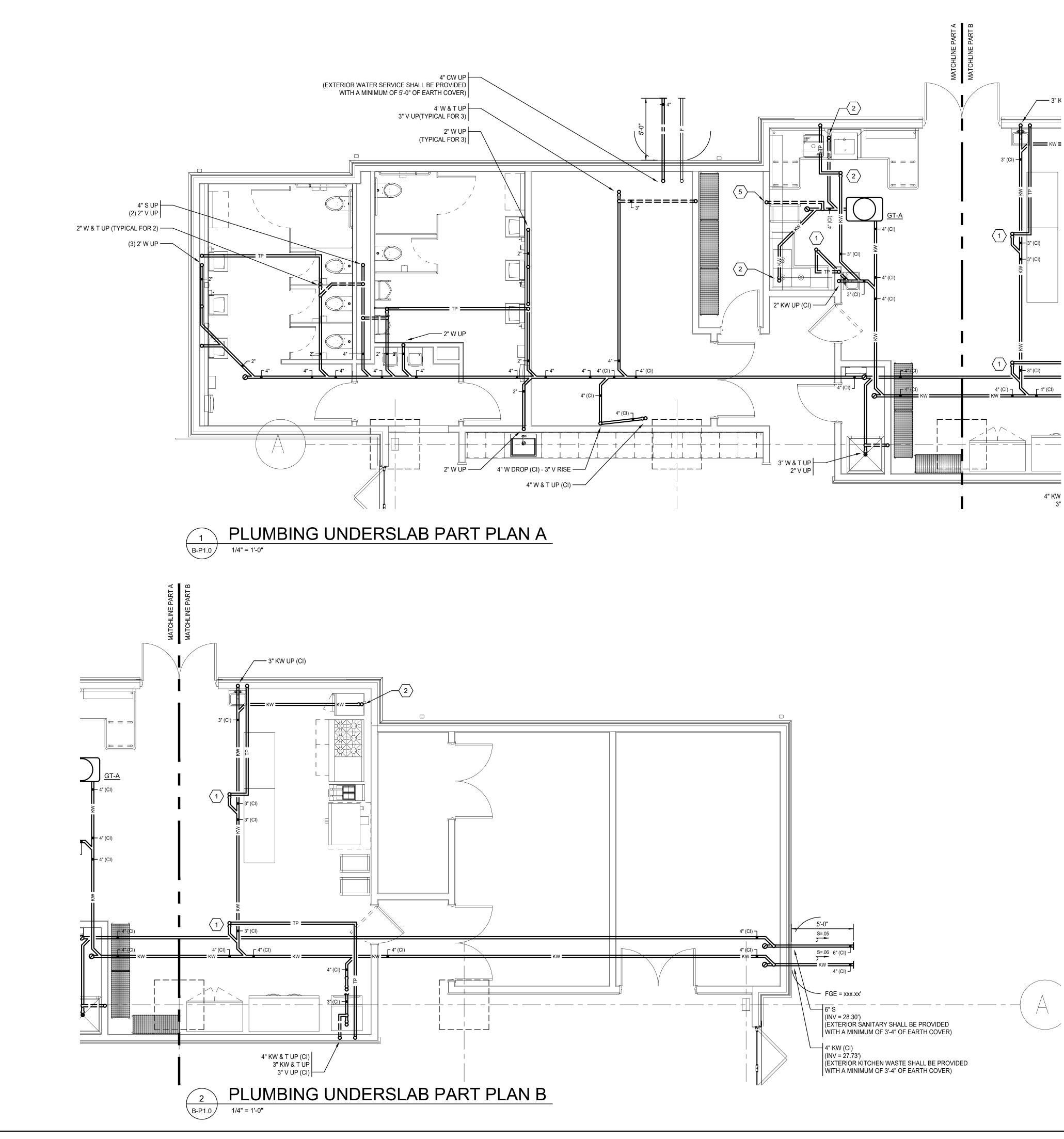
### B. Installer Qualifications

- 1. Company specializing in performing Work of this section with documented experience an approved by manufacturer.
- 1.7 DELIVERY, STORAGE, AND HANDLING
- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and protect products in accordance with manufacturer's recommendations.
- C.Protect pipe openings and piping from debris and other foreign matter by using caps on pipin connections.
- 1.8 SEQUENCING
- A.Ensure that locating templates and other information required for installation of products of th section are furnished to affected trades in time to prevent interruption of construction progres
- B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
- 1.9 PROJECT CONDITIONS
- A.Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- 1.10 WARRANTY
- A. Solar Collectors and roof integrated flashing: manufacturer's 10 year limited warranty.
- B. Duplex Stainless Steel Solar storage tanks: manufacturer's 25 year limited warranty.
- C. Solar pump station: manufacturer's 5 year limited warranty.
- D.Mounting Hardware: manufacturer's 5 year limited warranty.
- E. Interconnecting piping and fittings: manufacturer's 5 year limited warranty.
- F. Electrical Components Wiring: manufacturer's 5 year limited warranty.

		j.
	PART 2 PRODUCTS	B. Solar Storage tanks shall be jacketed with round painted steel with durable finish. The contro panel shall have a full-length hinged access door with keyed lock. Tank insulation shall be
	2.1 MANUFACTURERS	closed cell high density foam sufficient to meet ASHRAE 90.1b.
	A. Acceptable Manufacturer:	C.Tank Construction shall be 150 psi maximum allowable working pressure and be ASME
	Alternate Energy Technologies, LLC. 1345 Energy Cove Court Green Cove Springs, FL 32043	stamped and National Board listed. All tanks shall be manufactured with duplex stainless ster and provide a 25-year warranty.
	(P) 800-874-2190	2.6 SOLAR PUMP STATION AND CONTROLLERS
	Email: request info (sales@aetsolar.com) Web: www.aetsolar.com	A.General: Solar pump station substation includes solar loop safety devices, circulating pump,
	For additional information and quotation, e-mail info@nesalesgrp.com	and drain valves, and differential temperature control to properly operate the solar water heat system. System control shall be capable of displaying temperatures for the collector and storage tank.
	B. Substitutions: 1. Requests for substitutions will be considered in accordance with provisions of Section	B. Solar Differential Temperature Control: Solar differential temperature control is provided with the following capabilities.
	01600. 2.2 APPLICATIONS/SCOPE	1. Differential controls with direct digital temperature readings of all temperatures sensed.
	A.Solar Hot Water System: Drainback design with Flat plate solar collectors, duplex SS storage	2. Controller with visual indicators when pumps are energized.
	tanks with electric backup and a solar pump & control skid. System consists of the following primary components:	<ol><li>Controller with indicators for open and short circuits on both the solar collector temperatu sensor circuit and the storage tank sensor circuit.</li></ol>
	B. Solar Collectors: Solar collector array as indicated on the drawings	4. Integral controller that turns the solar loop pump on or off depending on the heat gained i the solar collectors.
ecified	C.Solar Collector Mounting Assembly: Collector Mounting Racks and Hardware	5. Controller that limits overheating in the solar collectors and overheating in the solar storage tank.
	D.Solar Storage Tanks: Solar Storage Tank(s) with electric backup as indicated on the drawings	C.Temperature And Pressure Gauges:
	E. Solar Pump Station: Pump(s), Controller, heat exchanger, fill valves, drainback reservoir,	<ol> <li>Integral temperature gauges are provided to show the temperature being supplied and returned to the solar collector and through the storage tank heat exchanger.</li> </ol>
:):	temperature gauges, shut-off valves, pressure relief valve & flow meter to suit the system specified	<ol> <li>A pressure gauge is included to show the solar loop system pressure in pressurized glyco systems.</li> </ol>
gs	F. Heat Transfer Fluid: Propylene-glycol and water	D.Collector Array Isolation Ball Valves:
vs,		1. Dravide bell values in the "bet" and "sold" lines of color numpratetion to isolate the color.
,	G.Piping System and Insulation: Piping system and pipe insulation with required pipe hangers and supports, and balancing valves for multiple collector banks if required	<ol> <li>Provide ball valves in the "hot" and "cold" lines of solar pump station to isolate the solar collector loop from the solar storage tank.</li> <li>Provide ball valves for abuteff with full part, branze bady, branze ball and Taflen cost.</li> </ol>
	2.3 SOLAR COLLECTORS	<ul><li>2. Provide ball valves for shutoff, with full port, bronze body, bronze ball and Teflon seat.</li><li>E. Pressure Relief Valve: Provide solar pump station with an integral pressure relief valve for the</li></ul>
	A.Flat plate, liquid type provided with cover glazing, a copper absorber plate, heat transfer liquid flow tubes, internal headers, weep holes, insulation, and a casing. Collectors shall be of weather-tight construction. Solar collectors shall withstand a stagnation temperature of 190	solar loop with 50 PSI setpoint. F. Circulator: Circulator shall be a stainless steel or cast iron body, inline circulator rated for
	degrees C (374 degrees F) and a working pressure of 80 psig without degrading, out-gassing, or warping.	required feet head. Circulator shall be integral to solar pump station and located in "cold" retuline to solar collectors. Circulator shall be UL listed.
g the nimum	1. Type:	G.Flow Meter: Provide integral flow meter with 0.5 to 3.5 gpm flow range. Flow meter shall be brass and include an integral ball valve and borosilicate site glass for setting solar loop flow rate.
	a. Rack Mounted Collector: AET MSC-32	H. Temperature Sensors: Provide temperature sensors for collector and tank temperature monitoring. Temperature sensors shall be compatible with the differential temperature contro
S.	2. Construction:	I. Hot Water System Tempering Valve : By others
	a. Absorber plate shall be all copper with top of absorber plate coated with highly selective absorber coating and an emissivity less than or equal to 0.08 and absorptivity greater than or equal to 0.95. Coating shall be applied by the electroplated process.	2.7 PIPING SYSTEM AND INSULATION A.Solar Loop Piping:
	b. Flow tubes shall be copper and be high-frequency forge welded to the absorber plate with no dissimilar metals.	1. Type L or Type M copper tubing and brass fittings with Armaflex HT insulation as require
	c. Each collector shall have a single layer of cover glazing made of low iron type tempered glass with a direct solar transmittance greater than 0.90.	<ul> <li>B. Piping connections to solar collectors shall be by special conical fittings that do not utilize o-rings, gaskets, welds or sealants.</li> <li>C.Protect outside piping insulation from water damage and ultraviolet degradation with a suitab outer coating.</li> </ul>
	d. Back and sides of the absorber plate shall be insulated with polyisocyanurate foam	D.Provide pipe hangers and supports that accommodate thermal expansion and contraction.
natics,	board. Insulation shall fill space between absorber plate and casing and shall have a maximum K-factor of 0.022 W/m K.	2.8 BALANCING VALVES A.For systems with multiple collector banks, provide balancing valves suitable for 125 psig and
,	e. Casing shall be extruded aluminum alloy 6063-T6 with minimum thickness of 0.093 inch	250 degree F service.
	unless noted. Finish shall be fabricator applied hard coat anodized. Provide for thermal expansion between the cover and absorber plates and the casing, and for drainage of moisture through weep holes	<ul> <li>B. Furnish balancing valves with bronze body/brass ball construction with seat rings compatible with system fluid and differential readout ports across valve seat area.</li> </ul>
ns ife	2.4 SOLAR COLLECTOR MOUNTING HARDWARE	C.Provide readout ports fitted with internal insert of compatible material. D.Provide calibrated balancing valves with a memory stop feature to allow valve to be closed for
	A.Roof Integrated Collector Mounting Hardware and Flashing: Provide flashing and mounting kits as required for the roofing materials as indicated on the Drawings.	service and reopened to set point without disturbing balance position, and with a calibrated nameplate to assure specific valve settings.
iclude: ision loop	1. Flashing kits for all roof penetrations.	E. Provide calibrated balancing valves at the inlet of the collector bank, and ball valves at the outlet of the collector bank. Provide balancing valves to allow the array to be flow balanced a to enable the array to be disconnected for maintenance or repair.
е	B. Rack Mounted Collector Mounting Hardware and Material: Provide rack kits of the type and in	2.9 PAINTING AND FINISHING
	locations indicated on the Drawings.	A.Furnish equipment and component items, with the manufacturer's factory applied standard finish.
	<ol> <li>Parallel rack kits are used to fasten collectors parallel against a sloped roof or structure with roof pitch of 15 degrees to 85 degrees. Parallel rack kits shall include:</li> </ol>	PART 3 EXECUTION
n	a. Extruded aluminum rails	<ul><li>3.1 EXAMINATION</li><li>A.Do not begin installation until substrates have been properly prepared.</li></ul>
	b. Mounting feet, angle brackets, bolts, nuts and washers	B. Verify the suitability of roof deck and other substrates to receive solar water heating system
and	<ol> <li>Adjustable rack kits are used to install collectors on low slope surfaces (pitch less than 15 degrees) or when a variable collector pitch or orientation is desired to achieve maximum solar gain.</li> </ol>	collector units. C.If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactor preparation before proceeding.
	a. Extruded aluminum rails	3.2 PREPARATION
	b. Front and rear rack legs	A.Clean surfaces thoroughly prior to installation. B.Dissimilar Materials Protection:
ping	c. Mounting feet, angle brackets, bolts, nuts and washers C.Mounting and Assembly Hardware: Rack systems, mounting brackets, hinges, cladding, and/or flashing components shall be manufactured by AET, or approved by AET for use with the AET	1. Where aluminum will contact dissimilar metals, protect against galvanic action by painting
f this	solar thermal collectors. No substitutions are allowed. D. Assembly hardware including all bolts, washers, and nuts shall be stainless steel or zinc coated	2. Where aluminum will contact concrete or masonry, protect against corrosion by painting
f this ress.	high alloy steel. 2.5 SOLAR STORAGE TANKS WITH ELECTRIC BACKUP	contact surfaces with bituminous paint.
	A.Solar Storage Tanks shall be Niles Steel Tank Model JEV-300K36ABJ DX SLR. Solar storage	<ol><li>Where aluminum will contact pressure-treated wood, separate dissimilar materials by methods recommended by manufacturer</li></ol>
	tanks shall meet or exceed the requirements of ASHRAE 90.1b.	C.Prepare surfaces using the methods recommended by the manufacturer for achieving the be result for the substrate under the project conditions.
	1. Tanks shall have the following capacities	<ul><li>3.3 INSTALLATION</li><li>A.Install in accordance with manufacturer's instructions.</li></ul>
	a. 300 gallons storage b. ASME Duplex SS Construction	B. General:
	c. 25-year warranty d. Tapping for connection to HX skid	1. Anchor components securely to supporting structural substrates, adequate to withstand
	e. 36 KW electric elements	lateral and thermal stresses as well as inward and outward loading pressures.
	f. 208V g. BMS contacts	<ol><li>Coordinate with installation of vapor barriers, roof insulation, roofing, and flashing as required to assure that each element of the work performs properly and that combined</li></ol>
	h. LWCO	elements are waterproof and weather tight.
	i. 7-day clock	C.Piping: Install piping straight and true to bear evenly on hangers and supports. Do not hang

control	piping from sheet rocks or suspended ceilings. Support piping so that thermal expansion and contraction of pipe lengths is accommodated.	GLEN G. MARKEY
be	1. Slope piping and arrange systems to drain at low points.	RHODE SINE OF COOD ISLAND
E	<ol><li>Keep interior and ends of new piping thoroughly cleaned of foreign matter. Keep piping systems clean during installation by means of plugs or other approved methods.</li></ol>	No. 7349
ss steel	3. Discharge storage tank pressure and temperature relief valves into floor drains.	REGISTERED
	<ol> <li>Maintain clearance for access to valves and fittings. Install valves with stems upright or horizontal.</li> </ol>	REGISTERED PROFESSIONAL ENGINEER MECHANICAL
ump, fill r heating d	5. Flush and disinfect the piping system after installation and prior to start-up. D.Solar Collectors:	
d with	<ol> <li>Collector Array: Install solar collector array at the proper tilt angle, orientation, and elevation above roof. Install the solar collectors with the ability to be removed for maintenance, repair, or replacement.</li> </ol>	S ARCHITECTS
sed.	<ol> <li>Array Piping: Install collector array piping in a reverse-return configuration so that path lengths of collector supply and return are of approximately equal length. Provide proper pitch for draining of collector array.</li> </ol>	Saccoccio &
berature	<ol> <li>Array Support: Install array support in accordance with the recommendations of the manufacturer.</li> <li>Roof Penetrations: Roof penetrations shall be made permanently waterproof. Coordinate</li> </ol>	Associates, Inc. 1085 Park Avenue tel 401.942.7970
ined in storage	work with the roofing and flashing specified in Section E. Install electrical devices furnished loose for field mounting.	Cranston, Rhode Island fax 401.942.7975 02910
	F. Install control wiring between control panel and field mounted control devices.	Consultant
	<ul><li>G.Connect to power source as specified in Section 16150.</li><li>3.4 CLEANING AND PROTECTION</li></ul>	
and	<ul><li>3.4 CLEANING AND PROTECTION</li><li>A.Protect installed products until completion of project.</li></ul>	
d glycol	B. Clean exposed metal and surfaces according to manufacturer's instructions. Touch up damaged	CNGINEERING <b>D</b> ESIGN SERVICES
	metal coatings. C.Clean solar collector glazing not more than 5 days prior to date of substantial completion.	INCORPORATED 141 Industrial Highway Slatersville, RI 02876 Tel (401) 765-7659 Fax (401) 765-2984
	D. Touch-up, repair or replace damaged products before Substantial Completion.	
olar	3.5 INSPECTION AND TESTING	
at.	A. Acceptance Testing and Final Inspection: Provide the following tests:	
for the	1. Flush System: Flush with clean water for one-hour minimum. Drain completely and refill.	
or d" return	Remove, clean, and provide new strainer screens. Inspect, remove sludge, and flush low points with clean water after cleaning process is completed. 2. Fill System: Fill system and vent air pockets. Verify proper percentage of propylene glycol to	Education Center &
l be flow	distilled water. 3. Hydrostatic Test: Hydrostatically test the system. Isolate valving and instrumentation not	Pavilion
	suitable for the intended test pressure. 4. Operational Test: Operationally test the system over a period of 48 consecutive hours with sufficient solar exposure to cause activation of the solar energy system during daylight	
controller.	<ul><li>hours.</li><li>5. Overall System Operations: Demonstrate the solar energy system will operate properly while unattended for a period of at least 72 hours.</li></ul>	
	3.6 FACTORY AUTHORIZED START UP	
	A. The contractor shall engage the services of the manufacturer's representative (info@nesalesgrp.com) to provide services including a pre-construction meeting and punch list	
equired. ze	meeting prior to scheduling the factory authorized start-up & commissioning of the system. Provide field-training for the Owner and/or the Owner's representatives after the system is functionally complete. Approved factory start-up reports are required to activate the component warranties. Include a discussion of the system design and layout and demonstrate routine	
suitable	operation, maintenance and troubleshooting procedures.	
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	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)	GLEN G. MARKEY No. REGISTERED PROFESSIONAL ENGINEER MECHANICAL
		Signature       ARCHITECTS         Saccoccio &       Saccoccio &         Associates, Inc.       1085 Park Avenue         1085 Park Avenue       tel 401.942.7970         Cranston, Rhode Island       fax 401.942.7975         02910       -         Consultant       -
		Engineering Gesign Services Incorporated 141 Industrial Highway Slatersville, RI 02876 Tel (401) 765-7659 Fax (401) 765-2984
		Education Center & Pavilion
		Revision Schedule
		NumberRevision DateIssued for Construction
		SHEET TITLE PLUMBING PAVILION UNDERSLAB PLAN
	SCALE: 1/4" = 1'-0" 0 FEET 4 8	DRAWN BY: RWC JOB NUMBER: 18050 CHECKED BY: GGM DATE: 06/15/2023 B-P1.0
FINISHED	FLOOR ELEVATION = 34.25'	SHEET: OF:

4" KW 3"

			FOOD SERVICE EQUIPMENT SCHEDULE							
DESIGNATION	EQUIPMENT DESCRIPTION	CW	HW	140HW	SERVIO S/W	CE SIZE KW	IW	V	G	REMARKS
1	CONVECTION OVEN	-		-	-	- -	-	-	1 1/4"	140 CFH AT 5" WC TO 10" WC, , PROVIDE FLEXIBLE SL
2	FRYER	-	-	-	-	-	-	-	1 1/4"	152 CFH AT 4" WC TO 11" WC, PROVIDE FLEXIBLE SUF
3	RANGE	-	-	-	-	-	-	-	1 1/2"	290 CFH AT 5" WC TO 10" WC, PROVIDE FLEXIBLE SUF
7	HAND SINK	1/2"	-	1/2"	-	2"	-	2"	-	PRECISION PLUMBING PRODUCTS PRIME PRO PRO1- SYMMONS MAXLINE 7 SERIES THERMOSTATIC MIXING OUTLET WATER SHALL BE SET TO A MAXIMUM TEMPI
9	STEAMER	(2) 1/2"	-	-	-	-	1 1/4"	-	-	WATTS LF7R DUAL CHECK VALVE WATTS U5B PRESSURE REDUCING VALVE WITH PRESSU INDIRECT WASTE PIPING SHALL BE COPPER
10	WAREWASHER	3/4" *	-	3/4" *	-	2"	-	-	-	DISCHARGE OF WASTE WATER SHALL NOT EXCEED 140°F (2) U5B PRESSURE REDUCING VALVE WITH PRESSURI
17	THREE COMPARTMENT POT SINK	(2) 1/2" *	-	(2) 1/2" *	-	-	(3) 1 1/2"	-	-	EACH ACTUAL BOWL SIZE 18" x 18" x 14" AT 75% FULL CAP SANITIZE COMPARTMENT SHALL BE PROVIDED WITH
18	ICE MACHINE	1/2"	-	-	-	-	-	-	-	WATTS LF7R DUAL CHECK VALVE AND SA-A PRECISION PLUMBING PRODUCTS PRIME PRO PRO1-
19	SOILED DISHTABLE	1/2"	-	1/2"	-	-	1 1/2"	-	-	PRECISION PLUMBING PRODUCTS PRIME PRO PRO1-UL INDIRECT WASTE PIPING NOT INDICATED, REFER TO FOC ADDITIONAL INFORMATION, INDIRECT WASTE PIPING S
EH1	EXHAUST HOOD	-	-	-	-	-	-	-	-	HEAT SENSORS INCLUDED TO COMPLY WITH 2019 RE WASH DOWN SYSTEM NOT FURNISHED - GREASE TRAP EXHAUST HOOD IS FURNISHED WITH A STANDARD GI

- REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION. EQUIPMENT PURCHASED MAY VARY SLIGHTLY FROM THAT INDICATED AND THEREFORE REQUIRE SOME REARRANGEMENTS OF EQUIPMENT DIFFERENT FROM THAT INDICATED ON THE DRAWINGS. MAKE CONNECTIONS TO
- SUCH REARRANGEDEQUIPMENT WITHOUT ADDITIONAL COST TO THE OWNER ROUGHING SHALL NOT BE UNDERTAKEN UNTIL ARCHITECT HAS APPROVED EQUIPMENT AND FIXTURE SHOP DRAWINGS AND KITCHEN TEMPLATE IS FURNISHED BY PERTINENT MANUFACTURER SO THAT CONNECTING REQUIREMENTS MAY BE VERIFIED AND WORK INSTALLED IN A NEAT AND WORKMANLIKE MANNER. EXACT LOCATION OF SERVICE CONNECTIONS SHALL BE OBTAINED PRIOR TO ROUGHING.
- ALL FINAL CONNECTIONS TO KITCHEN EQUIPMENT AND FIXTURES SHALL BE BY THE PLUMBING CONTRACTOR. ALL EXPOSED VALVES, PIPING AND FITTINGS SHALL BE SCREWED BRASS CHROME PLATED.
- PLUMBING CONTRACTOR SHALL PROVIDE EACH CONNECTION TO EACH PIECE OF EQUIPMENT ITS OWN INDIVIDUAL WATER OR GAS FULL SIZE SHUTOFF VALVE UNLESS OTHERWISE INDICATED. KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE ALL KITCHEN EQUIPMENT LISTED IN THE KITCHEN EQUIPMENT
- SCHEDULE INCLUDING EQUIPMENT TRIM, FAUCETS, SINK WASTES, TAIL PIECES AND VACUUM BREAKERS. PLUMBING CONTRACTOR SHALL PROVIDE FULL SIZE TRAP AND EXTENSION. PLUMBING CONTRACTOR SHALL ASSEMBLE AND INSTALL ALL KITCHEN EQUIPMENT LISTED IN THE KITCHEN EQUIPMENT SCHEDULE INCLUDING TRIM, FAUCETS, SINK WASTE, TAIL PIECES, VACUUM BREAKERS, TRAP AND EXTENSIONS.
- INDIRECT WASTE PIPING NOT INDICATED, REFER TO FOOD SERVICE EQUIPMENT PLUMBING ROUGHING PLAN FOR ADDITIONAL INFORMATION, INDIRECT WASTE PIPING SHALL BE PROVIDED AND FIELD COORDINATED TO SPILL TO FLOOR SINK.
- ALL INDIRECT WASTE PIPING SHALL BE COPPER. PVC SHALL NOT BE ALLOWED. 10. ALL INDIRECT WASTE PIPING SHALL TERMINATE BY MEANS OF AN AIR GAP.

### PLUMBING BEVERAGE CONDUIT NOTES

- DESIGN OF BEER AND SODA BEVERAGE CONDUIT PIPING SYSTEMS SHALL BE BY THE FOOD SERVICE EQUIPMENT CONSULTANT. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR COMPLETE SCOPE.
- INSTALLATION OF BEER AND SODA BEVERAGE CONDUIT PIPING SYSTEMS AS INDICATED ON THE FOOD SERVICE EQUIPMENT DRAWINGS SHALL BE BY THIS PLUMBING CONTRACTOR.

### PLUMBING WATER HEATER NOTES

- 1. WALL MOUNTED NATURAL GAS WATER HEATER TWO (2) RINNAI TRW02CUIN - INSTALL ONE ASSEMBLY OVER OTHER ASSEMBLY - FOUR HEATERS TOTAL (97% EFFICIENT) (NATURAL GAS CONSUMPTION 199 CFH WITH A RECOVERY RATE OF 4.8 GPM AT 100°F RISE EACH) (NATURAL GAS SUPPLY PRESSURE 3.5" WC TO 10.5" WC)
- WATER HEATER TEMPERATURE SHALL BE SET AT 140°F.
- 3. 1 1/4" CW PIPING DROP SERVING TWO MANUFACTURERS MANIFOLD HEADERS (DROP SHALL BE PROVIDED WITH SHUTOFF VALVE, DV-A, CHECK VALVE WITH 1/8" HOLE DRILLED IN CLAPPER, THERMAL EXPANSION TANK AND VACUUM BREAKER. (DROP SHALL INCLUDE X" HWC CONNECTION WITH CIRCULATION PUMP, ASSOCIATED SHUTOFF VALVES, CHECK VALVE, AQUASTAT, DV-A, FULL SIZE BY-PASS AND TIME CLOCK.
- 4. 1 1/4" HW PIPING RISE SERVING TWO MANUFACTURERS MANIFOLD HEADERS. (RISE SHALL BE PROVIDED WITH SHUTOFF VALVE, DV-A THERMOSTATIC MIXING VALVE AND THERMOMETER)
- 5. 2 1/2" G PIPING DROP SERVING TWO MANUFACTURERS MANIFOLD HEADERS. (DROP SHALL BE PROVIDED WITH SHUTOFF VALVE, PRESSURE GAUGE AND SEDIMENT LEG - 796 CFH)
- 6. EACH DEDICATED HEATER SHALL BE PROVIDED WITH: 3/4" COLD WATER INLET SHUTOFF VALVE WITH UNION 3/4" HOT WATER OUTLET SHUTOFF VALVE WITH TEMPERATURE / PRESSURE RELIEF VALVE AND UNION 3/4" NATURAL GAS INLET SHUTOFF VALVE WITH SEDIMENT TRAP AND UNION
- 7. ALL PIPE CONNECTIONS SHALL BE PROVIDED WITH A DIELECTRIC UNION
- 8. PIPING SHALL BE INSTALLED TO ALLOW FUTURE REMOVAL OF WATER HEATER(S) VALVES AND UNIONS SHALL BE INSTALLED TO ALLOW ISOLATION OF ONE HEATER WITHOUT DISTURBANCE OF REMAINING HEATERS IN OPERATION COLD WATER, HOT WATER AND HOT WATER CIRCULATION MANIFOLDS SHALL BE INSTALLED TO ALLOW FUTURE REMOVAL OF HEATER WITHOUT DISTURBANCE OF REMAINING HEATERS IN OPERATION
- 9. EACH HEATER TO BE PROVIDED WITH 3" COMBUSTION AIR INTAKE AND EXHAUST.
- 10. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURERS INSTALLATION MANUAL
- 11. EACH WATER HEATER CONDENSATE OUTLET SHALL BE PROVIDED WITH A CONDENSATE NEUTRALIZING TUBE (CONDENSATE NEUTRALIZING TUBE SHALL BE HORIZONTALLY MOUNTED BENEATH EACH WATER HEATER ON WALL AND OUTLET TUBING SHALL SPILL TO FLOOR DRAIN - CONDENSATE SHALL SATISFY TRAP PRIMER REQUIREMENTS)
- 12. A LAMINATED SIGN SHALL BE STENCILED ON OR IN THE IMMEDIATE AREA OF THE CONDENSATE NEUTRALIZING TUBE IN LETTERS ONE INCH HIGH. THE SIGN SHALL STATE THE FOLLOWING IN EXACT LANGUAGE:

THIS CONDENSATE NEUTRALIZING TUBE MUST BE INSPECTED ON A REGULAR AND FREQUENT BASIS AND THE NEUTRALIZING MEDIUM OR AGENT REPLACED WHEN NECESSARY.

FAILURE TO DO SO WILL RESULT IN SERIOUS DAMAGE TO THE PIPING SYSTEM.

1" CW DROP (2) 3/4" REDUCED PRESSURE BACKFLOW PREVENTERS

 $-\mp -\mp -$ 

- - - -

1" 140HW DROP

(SPILL RELIEF PORT TO MOP SINK)

1" NPCW RISE

\_\_\_\_

(PROVIDE VALVE AND CAP AT BASE FOR MOP SINK CHEMICAL SUPPLY)

1" NPHW RISE (TMC)

DRAWING FOR INDIVIDUAL FIXTURE SERVICE SIZES.

(19)

<u>3" FS-B</u>

2" FD-/

17

≥\_3/4"—

**⊢**3" 4

L 1 1/4"

—**—**——1

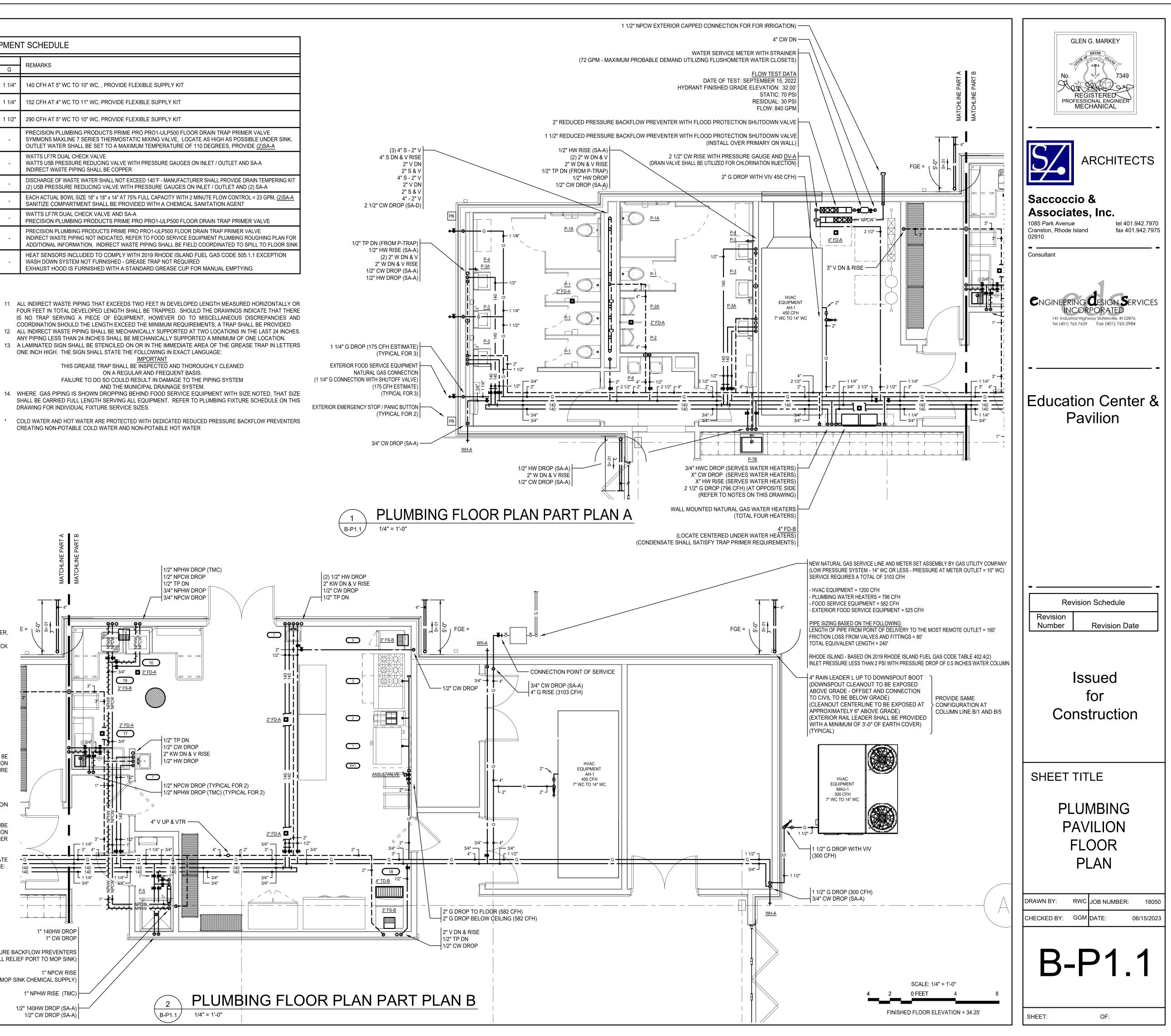
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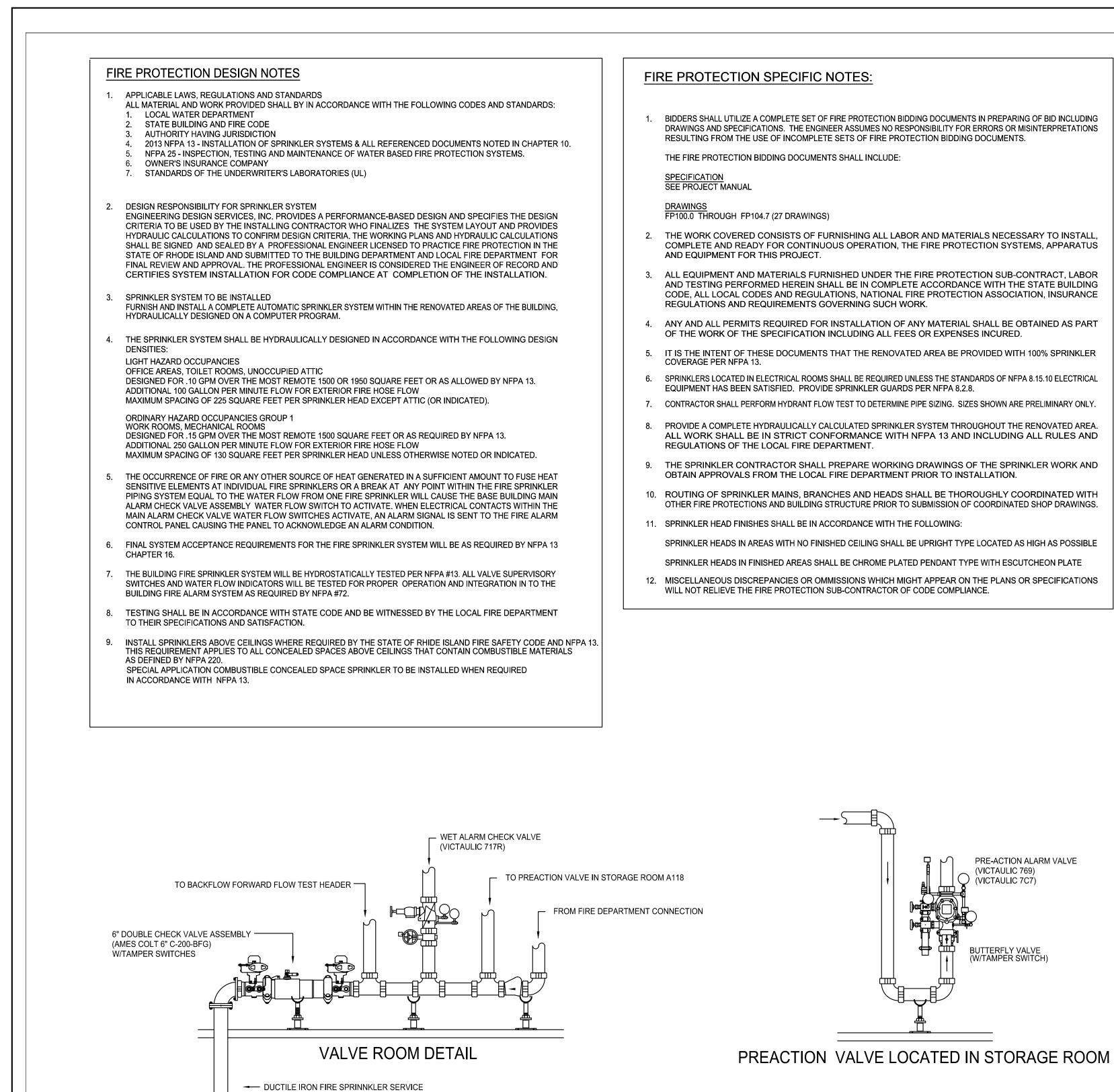
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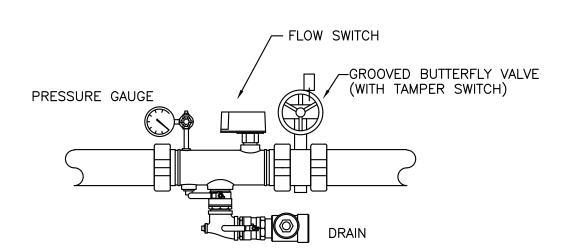
/4" 🖸 <u>3" FD-A</u>

 $\overline{\phantom{a}}$ 

1/2" 140HW DROP (SA-A) 1/2" CW DROP (SA-A)







ZONE CONTROL VALVE ASSEMBLY DETAIL NOT TO SCALE

### 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.

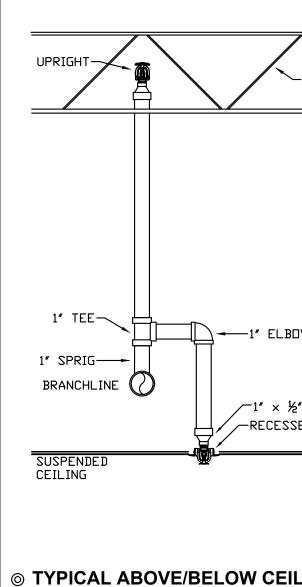
THE FIRE PROTECTION BIDDING DOCUMENTS SHALL INCLUDE:

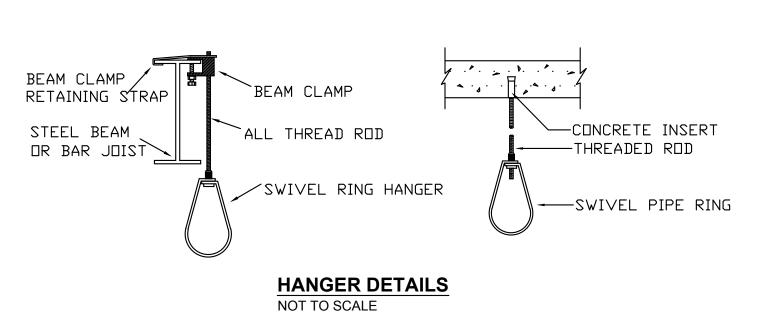
- 2. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT.
- ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE FIRE PROTECTION SUB-CONTRACT, LABOR AND TESTING 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 INCURED.
- 5. IT IS THE INTENT OF THESE DOCUMENTS THAT THE RENOVATED AREA BE PROVIDED WITH 100% SPRINKLER
- 6. 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. 7. 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.
- 9. THE SPRINKLER CONTRACTOR SHALL PREPARE WORKING DRAWINGS OF THE SPRINKLER WORK AND OBTAIN APPROVALS FROM THE LOCAL FIRE DEPARTMENT PRIOR TO INSTALLATION.
- 10. 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 HEADS IN AREAS WITH NO FINISHED CEILING SHALL BE UPRIGHT TYPE LOCATED AS HIGH AS POSSIBLE SPRINKLER HEADS IN FINISHED AREAS SHALL BE CHROME PLATED PENDANT TYPE WITH ESCUTCHEON PLATE
- 12. MISCELLANEOUS DISCREPANCIES OR OMMISSIONS WHICH MIGHT APPEAR ON THE PLANS OR SPECIFICATIONS WILL NOT RELIEVE THE FIRE PROTECTION SUB-CONTRACTOR OF CODE COMPLIANCE.

### FIRE PROTECTION GENERAL NOTES

- A. THE FIRE PROTECTION WORK COVERED HEREIN SHALL BE INSTALLED BY A LICENSED FIRE PRO HIRED BY THE GENERAL CONTRACTOR TO PROVIDE ALL LABOR AND MATERIALS NECESSA AND MAKE READY FOR CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS PROJECT
- B. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE FIRE PROTECTION CONTRACT, LABOF HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE BUILDING CODE, ALL LOCAL NATIONAL FIRE PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS
- C. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OF WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURED.
- D. SHOP DRAWINGS: SHOP DRAWINGS OF ALL SPECIFIED HARDWARE AND APPARATUS THE ARCHITECT FOR APPROVAL.
- E. GUARANTEE: ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS GUARANTEE IN WRITING FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE
- INSPECTION: ALL WORK SHALL BE SUBJECT TO THE INSPECTION OF THE OWNER, THE ARC INSPECTORS HAVING JURISDICTION. A PROPERLY EXECUTED CERTIFICATE OF INSPECT
- G. EXAMINATION OF SITE: THE FIRE PROTECTION SUBCONTRACTOR, BEFORE SUBMITTING PRI SHALL THOROUGHLY EXAMINE THE SITE AND CONTRACT DOCUMENTS. NO CLAIM FOR WILL BE RECOGNIZED IF DIFFICULTIES WHICH AN EXAMINATION OF SITE CONDITIONS AND PRIOR TO EXECUTING CONTRACT WOULD HAVE REVEALED.
- H. COORDINATION: COORDINATE ALL WORK INSTALLED UNDER THIS SPECIFICATION WITH THAT OF ALL
- PROTECTION OF PROPERTY: PROTECT ALL NEW AND EXISTING WORK BEFORE, DURING /
- CERTIFICATES OF APPROVAL: UPON COMPLETION OF ALL WORK, THE FIRE PROTECTION SUBCC J. IN DUPLICATE, CERTIFICATES OF INSPECTIONS FROM ALL INSPECTORS AND AUTHORITIE
- K. ALL VALVES SHALL BE PROVIDED WITH A SUPERVISORY SWITCH. SUPERVISORY SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION SU BY THE ELECTRICAL CONTRACTOR. SUPERVISORY SWITCH SHALL BE POTTER ROEMER 6220
- FLOW SWITCHES SHALL BE INSTALLED WHERE REQUIRED PER CODE. FLOW SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION SUB CONTR ELECTRICAL CONTRACTOR. FLOW SWITCH SHALL BE POTTER ROEMER 6200 SERIES, RED, TAMPE WITH FLOW PADDLE, ADJUSTABLE PNEUMATIC RETARD SETTING OR APPROVED EQUAL.
- M. SEE STRUCTURAL DRAWINGS FOR INFORMATION REGARDING CORING THROUGH EXISTING

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





PRE-ACTION ALARM VALVE

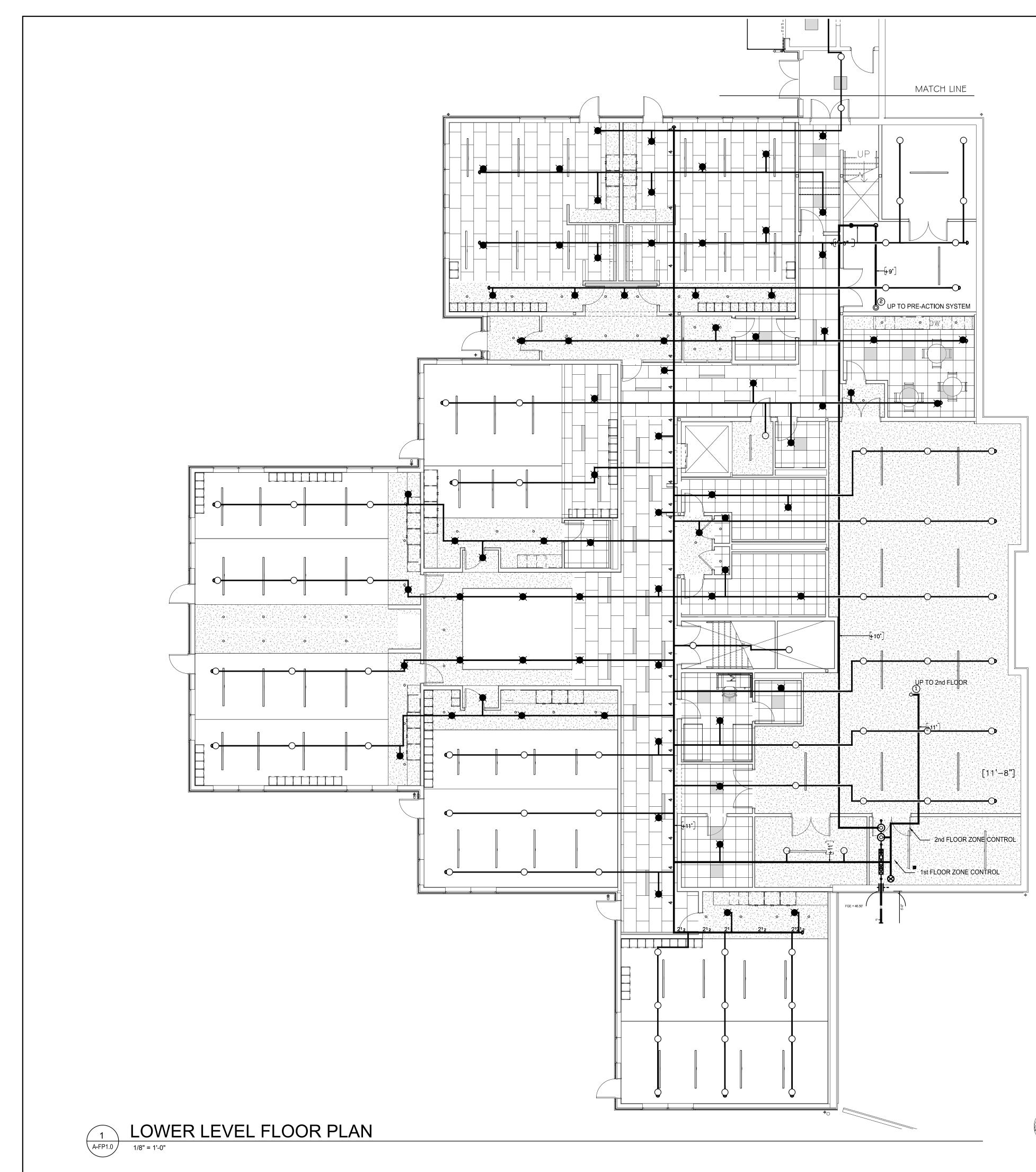
(VICTAULIC 769)

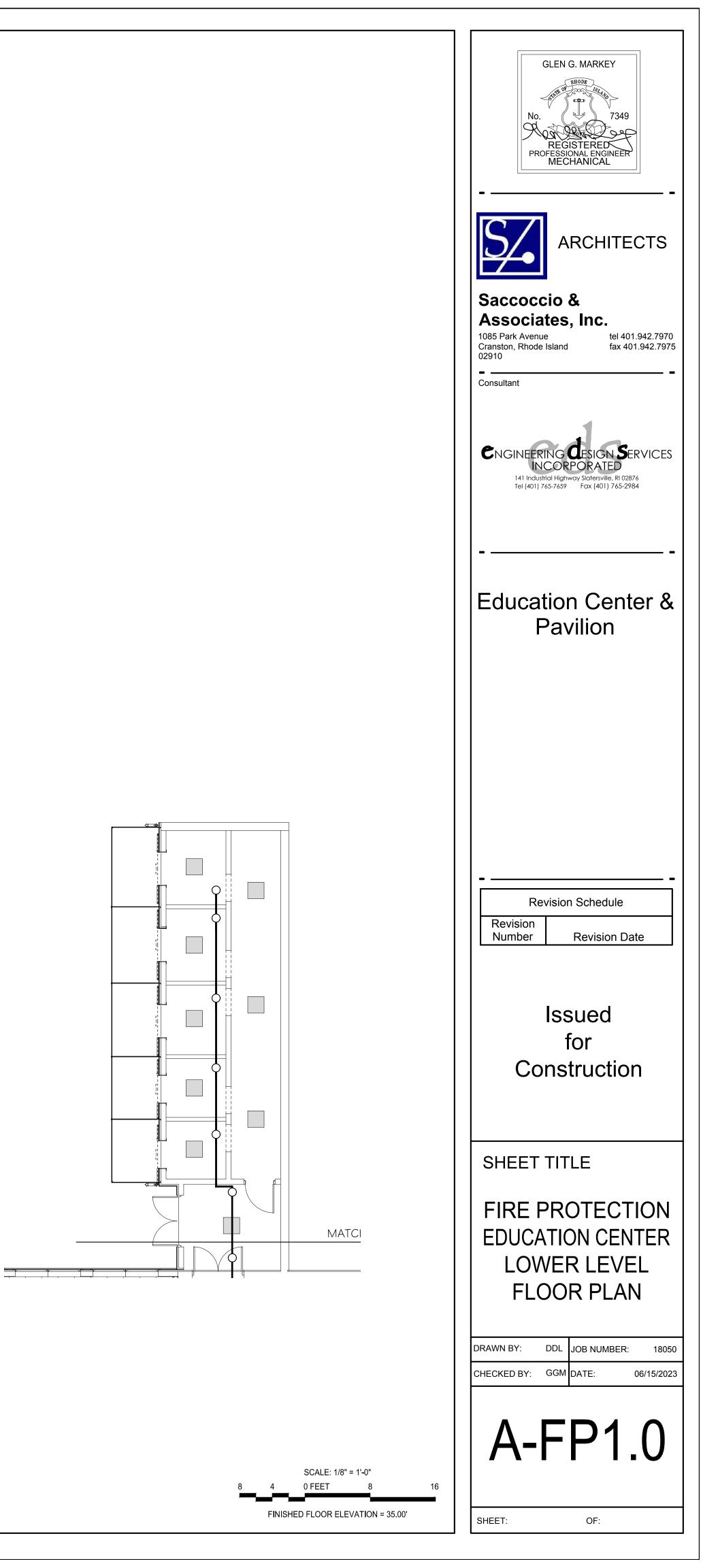
(VICTAULIC 7C7)

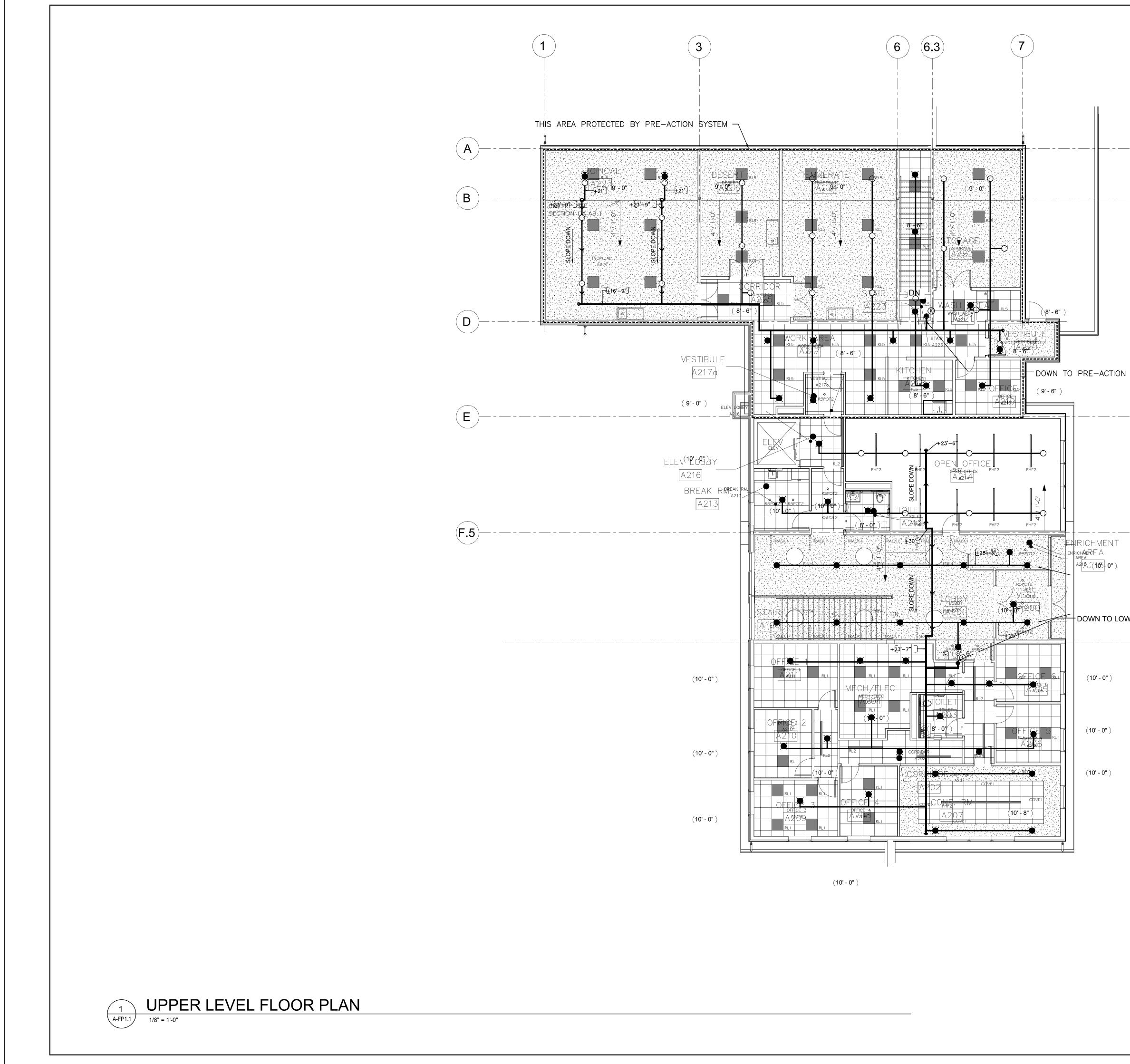
BUTTERFLY VALVE (W/TAMPER SWITCH

	SYM	CNT	POSITI	.ON			
	۲		QUICK	RESPONSE	RECESSED	PENDENT	
	0		QUICK	RESPONSE	UPRIGHT		
			QUICK	RESPONSE	RECESSED	PENDENT	

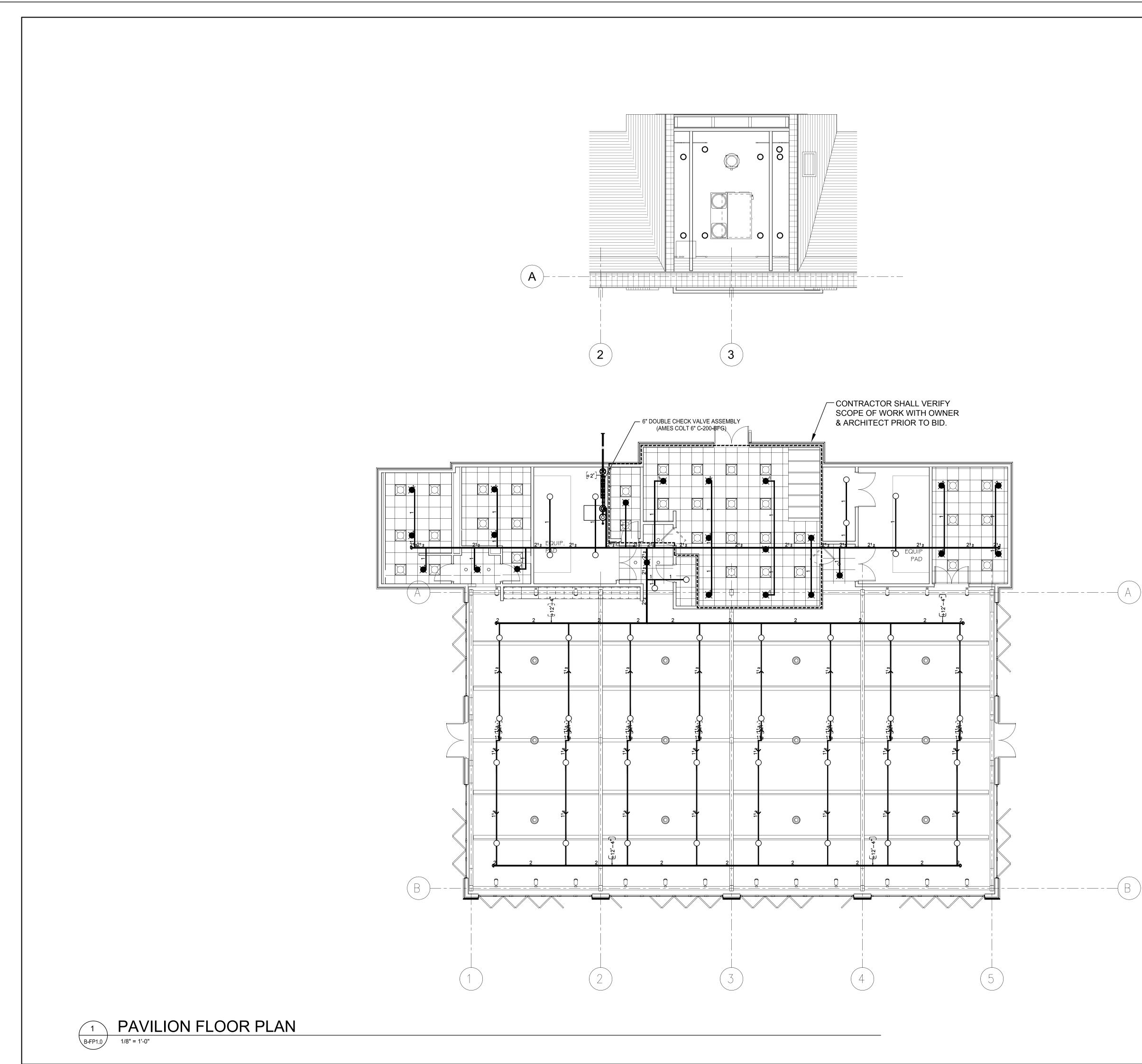
DTECTION SUB-CONTRACTOR ARY TO INSTALL, COMPLETE JS AND EQUIPMENT FOR THIS	GLEN G. MARKEY
R AND TESTING PERFORMED CODES AND REGULATIONS, S GOVERNING SUCH WORK. BTAINED AS PART OF THE	- ARCHITECTS
S SHALL BE SUBMITTED TO S SPECIFICATION SHALL BE BUILDING BY THE OWNER. CHITECT AND SUCH OTHER TION SHALL BE PROVIDED. RICES OR BEGINNING WORK, OR EXTRA COMPENSATION ID CONTRACT DOCUMENTS	Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.797 02910 Consultant
OTHER MECHANICAL TRADES. AND AFTER INSTALLATION. ONTRACTOR SHALL FURNISH, IES HAVING JURISDICTION.	ENGINEERING DESIGN SERVICES INCORPORATED 141 Industrial Highway Slatersville, RI 02876 Tel (401) 765-7659 Fax (401) 765-2984
20 OR APPROVED EQUAL. RACTOR AND WIRED BY THE ER-PROOF SWITCH HOUSINGS	
STRUCTURE.	Education Center 8 Pavilion
WOOD TRUSS CONSTRUCTION	Revision Schedule Revision Number Revision Date
BD₩ ½″ REDUCING COUPLING SSED PENDENT	Issued for Construction
FINISH       TEMP       K       NPT         CHRDME       155       5.60       1/2*         BRASS       200       5.60       1/2*         CHRDME       155       5.60       1/2*	SHEET TITLE FIRE PROTECTION LEGEND, GENERAL NOTES, AND DIAGRAMS
	SHEET: OF:







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VALVE	(E)		Education Center & Pavilion
	( <b>F.5</b> )		
VER LEVEL	<b>G.8</b>		Revision Schedule Revision Number Revision Date
			Issued for Construction
			SHEET TITLE FIRE PROTECTION EDUCATION CENTER UPPER LEVEL FLOOR PLAN
			DRAWN BY: DDL JOB NUMBER: 18050 CHECKED BY: GGM DATE: 06/15/2023
		SCALE: 1/8" = 1'-0" 8 4 0 FEET 8 16	A-FP1.1
		FINISHED FLOOR ELEVATION = 35.00'	SHEET: OF:



GLEN G. MARKEY No. REGISTERED PROFESSIONAL ENGINEER MECHANICAL
Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910
CNGINEERING DESIGN SERVICES INCORPORATED 141 Industrial Highway Statersville, RI 02876 Tel (401) 765-7659 Fax (401) 765-2984
 Education Center & Pavilion
Revision Schedule Revision Number Revision Date
Issued for Construction
SHEET TITLE
FIRE PROTECTION PAVILION FLOOR PLAN
DRAWN BY: DDL JOB NUMBER: 18050 CHECKED BY: GGM DATE: 06/15/2023
B-FP1.0
SHEET: OF:

		SCALE: 1/8'	' = 1'-0"
8	4	0 FEET	8

FINISHED FLOOR ELEVATION = 34.25'

ELECTRICAL SYMBOL LEGEND									
SYMBOL	DESCRIPTION	MOUNTING	SYMBOL	DESCRIPTION	MOUNTING				
^O	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.	R R C C	RELAY; REFER TO PLANS FOR RATINGS. CONTACTOR; REFER TO PLANS FOR RATINGS.					
A 5d	LINEAR LED LIGHTING FIXTURE; (SUBSCRIPTS INDICATE THE SAME AS ABOVE).	REFER TO LIGHTING FIXTURE SCHEDULE.	_	PANELBOARD SURFACE MOUNTED; 208Y/120V, 3-PHASE, 4-WIRE. REFER TO "BRANCH CIRCUIT PANELBOARD SCHEDULES" ON PLANS.	MOUNT 6'-6" AFF TO TOP BREAKER.				
	2'x2' LED LIGHTING FIXTURE; (SUBSCRIPTS INDICATE THE SAME AS ABOVE).	REFER TO LIGHTING FIXTURE SCHEDULE.	60AF/50AT/3P/3R	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.					
B C <sub>5d</sub>	LED WALL MOUNTED LIGHTING FIXTURE. (SUBSCRIPTS INDICATE SAME AS ABOVE).	REFER TO LIGHTING FIXTURE SCHEDULE.	60AF/3P/3R	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	"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			ENCLOSED CIRCUIT BREAKER. GROUND, PER NEC.					
Φ <sup>2</sup> <sub>c</sub>	RECEPTACLES ON THE SAME CIRCUIT. SINGLE CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING	18" A.F.F., UON	÷	HOMERUN TO PANELBOARD; "P" INDICATES PANEL, "1,3" INDICATES CIRCUIT					
$\Phi_c^2$	MOUNTED) DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING	18" A.F.F.	1,3 IG	NUMBERS. "IG" INDICATES ISOLATED GROUND CIRCUIT (SEE ISOLATED GROUND RECEPTACLE DETAIL ON DRAWING E3.2 & REFER TO "TYPICAL CIRCUITING DETAIL" ON PLANS.					
	MOUNTED) DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING		<u>С</u> 7 Р	HOMERUN TO PANELBOARD & CONTROLLED BY SENSORS AND CONTACTOR; "P" INDICATES PANEL, "5" INDICATES CIRCUIT NUMBER.					
TV ∰ <sup>2</sup> <sub>C</sub>	(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	SM Sa	MANUAL MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS. SINGLE POLE SWITCH; "a" INDICATES LIGHTING FIXTURES CONTROLLED.	48" AFF 48" AFF				
EWC	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. (SUBSCRIPT AS FOLLOWS: "2" INDICATES		SJa SJa	THREE-WAY SWITCH; "a" INDICATES LIGHTING FIXTURES CONTROLLED.	48" AFF				
₩P ₩C ∰ C	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.	WS	WALL SWITCH VACANCY SENSOR (MANUAL "ON" AND AUTOMATIC "OFF") EQUAL TO LEVITON MODEL # OSSMT. INSTALL PER MANUFACTURERS INSTRUCTIONS.	48" AFF				
₩P ₩C III 2 ₩C	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; "WP" INDICATES PROVIDE WP WHILE-IN-USE ENCLOSURE; "WC" INDICATES PROVIDE WP FLIP-LID COVER)	46" A.F.F.	(3)	ULTRASONIC OCCUPANCY SENSOR EQUAL TO LEV ITON MODEL # OSC10-RUW/ OSC20-RUW. WIRE TO POWER-PACK OR CONTROLLER PER MANUFACTURERS INSTRUCTIONS. SET DELAY TIMES FOR 15 MINUTES.	CEILING				
WP ☐ 2	SINGLE CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "EWC" INDICATE ELECTRIC WATER COOLER; "WP" INDICATES PROVIDE WP WHILE-IN-USE ENCLOSURE.	18" A.F.F.	(PP)	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.				
¢	QUADRUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED) SPECIAL NEMA CONFIGUATION OUTLET; VERIFY NEMA TYPE WITH EQUIPMENT TO	18" A.F.F.	LSa	LOW VOLTAGE MANUAL ON - OFF SWITCH EQUAL TO LEVITON MODEL # RDGSW-2CW; "a" INDICATES LIGHTING FIXTURES CONTROLLED. WIRE TO POWER-PACK PER MANUFACTURE'S INSTRUCTIONS	48" AFF				
	BE SERVED. 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	ABOVE COUNTER BACKSPLASH, UON	TS	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				
2 FB ⊕▼▼	6'-0" OF SINKS SHALL BE PROVIDED WITH GFCI RECEPTACLES. 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	(3)	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				
®J	WALL OR COLUMN RECESSED JUNCTION BOX WITH POWER FURNITURE FEED (MINIMUM 1" CONDUIT). REFER TO DETAIL ON DRAWING E307. WALL OR COLUMN RECESSED JUNCTION BOX WITH COMMUNICATIONS FURNITURE	18" A.F.F. (UON)	ଞ	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	CEILING				
	FEED (MINIMUM 2" CONDUIT). REFER TO DETAIL ON DRAWING E307. RECESSED FLOOR-BOX POKE-THRU WITH POWER FURNITURE FEED (MINIMUM 1"	18" A.F.F. (UON)		AUTOMATIC "OFF" WITH SENSOR. SET DELAY TIMES FOR 15 MINUTES. SET SENSOR SO THAT ONLY ONE TECHNOLOGY IS NEEDED TO KEEP LIGHTS ON.					
ر س ا	CONDUIT). REFER TO DETAIL ON DRAWING E307. RECESSED FLOOR-BOX POKE-THRU WITH COMMUNICATIONS FURNITURE FEED (MINIMUM 2" CONDUIT). REFER TO DETAIL ON DRAWING E307.	FLOOR	3	DIMMING ROOM CONTROLLER EQUAL TO LEVITON MODEL # DRC07-ED0. WIRE PER MANUFACTURER'S INSTRUCTIONS.	ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL IN GYPSUM				
w V	COMBINATION TELEPHONE/DATA OUTLET; PROVIDE 3/4"C. (EMT) WITH PULL STRING FROM OUTLET TO ABOVE DROP CEILING. "C" INDICATES TO LOCATION ABOVE COUNTER BACKSPLASH, "W" INDICATES WALL MOUNTED TELEPHONE MOUNTED PER ARCHITECT'S DIRECTION. EACH OUTLET SHALL BE PROVIDED WITH (3) CATEGORY 6	18" A.F.F., UON	B	DIMMING PHOTOCELL WITH ADJUSTABLE DAY-LIGHT SENSOR DOME EQUAL TO LEVITON MODEL # ODC0P-D0W. WIRE PER MANUFACTURER'S INSTRUCTIONS.	CEILINGS. CEILING				
	ARCHITECT'S DIRECTION. EACH OUTLET SHALL BE PROVIDED WITH (3) CATEGORY 6 CABLES PER THE OWNER'S SPECIFICATIONS. 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		PL	PLUG-LOAD ROOM CONTROLLER RELAY EQUAL TO LEVITON MODEL # DRD07-EDO. WIRE PER MANUFACTURER'S INSTRUCTIONS.	ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL IN GYPSUM CEILINGS.				
	THE SHEET. SECURITY SYSTEM CARD ACCESS READER (BY OTHERS). E.C. SHALL PROVIDE RECESSED BACKBOX (HIRSCH MB3) PER SECURITY SYSTEM MANUFACTURER'S		LDa	LOW VOLTAGE DIMMING SWITCH (ZONE 1) EQUAL TO LEVITON MODEL # RDGSW-4CW; "a" INDICATES LIGHTING FIXTURES CONTROLLED. WIRE PER MANUFACTURE'S INSTRUCTIONS.	48" AFF				
CR	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	LDb	LOW VOLTAGE DIMMING SWITCH (ZONE 1) EQUAL TO LEVITON MODEL # RDGSW-4CW; "b" INDICATES LIGHTING FIXTURES CONTROLLED. WIRE PER MANUFACTURE'S INSTRUCTIONS.	48" AFF				
SPD	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.		LDc	LOW VOLTAGE DIMMING SWITCH (ZONE 1) EQUAL TO LEVITON MODEL # RDGSW-4CW; "c" INDICATES LIGHTING FIXTURES CONTROLLED. WIRE PER MANUFACTURE'S INSTRUCTIONS.	48" AFF				
WP J	JUNCTION BOX; SIZE AS REQUIRED PER CODE. "WP" INDICATES LISTED AS WEATHER-PROOF, GASKETED JUNCTION BOX.		DS	COMBINATION WALL DIMMER & VACANCY SENSOR EQUAL TO LUTRON MAESTRO #MS-Z101-V. WIRE PER MANUFACTURER'S INSTRUCTIONS.	48" AFF				
P	EMERGENCY CALL SYSTEM PULL CORD.	48" AFF OR AFG	EBS	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				
수	EMERGENCY CALL SYSTEM INDICATING HORN/STROBE. CONNECT 120VAC POWER UN-SWITCHED AND AHEAD OF ANY GFCI RECEPTACLES.	ABOVE DOOR	FM	FIRE-O-MATIC SWITCH MOUNTED OVER BURNER. REFER TO DETAIL.					

4	AMPERES	CLG	CEILING	G.C.	GENERAL CONTRACTOR	JB	JUNCTION BOX	MTD	MOUNTED	TYP	TYPICAL
٩DA	AMERICANS WITH DISABILITIES	DN	DOWN			KVA	KILOVOLT-AMPERES	NAC	F.A. NOTIFICATION APPLIANCE	UL	UNDERWRITERS LABA
	ACT	DWG	DRAWING	GFCI	GROUND FAULT CIRCUIT	KW	KILOWATT	NAC	CIRCUIT EXPANDER PANEL	UON	UNLESS OTHERWISE N
AMPS	AMPERES	E.C.	ELECTRICAL CONTRACTOR	G	GROUND	LTG	LIGHTING	NEC	NATIONAL ELECTRICAL CODE		
٩FF	ABOVE FINISHED FLOOR	EQ.	EQUAL	GND	GROUND	MAX	MAXIMUM	NTS	NOT TO SCALE	V	VOLTS
A/C	AIR CONDITIONING			HVAC	HEATING, VENTILATING, &			1113		W	WATTS
AWG	AMERICAN WIRE GAGE	F.A.	FIRE ALARM	1107.0	& AIR CONDITIONING	M.C.	MECHANICAL CONTRACTOR	Р	POLE	WP	WEATHER-PROOF
С	CONDUIT	FACP	FIRE ALARM CONTROL PANEL	I.T.	INFORMATION TECHNOLOGY	MECH	MECHANICAL	P.C.	PLUMBING CONTRACTOR	ç	CENTERLINE
C/B	CIRCUIT BREAKER	FLR	FLOOR	1.1.	IN ONWATION TECHNOLOGY	MIN	MINIMUM	PNL	PANEL	-	

## TYPICAL ELECTRICAL NOTES

					ENT ANI	D SERVI	CES NE	CESSAF	RY FOR	THE P	ROPEF
1. FURNISH		REIN SF	PECIFIE	D.							
DRAWINGS 2. ALL ITEM					NGSO						
SHALL BE F									SPECIF	ICATIO	NO, DU
3. ALL ELEC 4. OBTAIN A									ICT AC	CORDA	NCE W
5. MATERIA STANDARD	LS AND V	VORKM	IANSHI	P SHALL	BE TH	E BEST	OF THE	IR RESF			
6. THE ELEC		CONTR	ACTOR	SHALL	CLEAN	I AT THE					
NO USE SH							H THE (	G.C. ANI	) SHAL	L BE CO	DORDII
8. ALL BRAN	ICH CIRC	UITS R	ATED A	AT 120 V	OLTS,	20 AMPE	ERES EX	CEEDIN	NG 75 F	EET SH	IALL BI
9. THE ELEC WITH THE L	JTILITY P	OWER	COMPA	NY'S RI	EQUIRE	MENTS	AND ST	ANDAR	DS, PR	IOR TO	ORDE
TRANSFOR	METERIN										
STANDARD 10. THE ELE											
THE TELEPI RACEWAYS		OMPAN	Y'S REC	QUIREM	ENTS A	ND STA	NDARD	s, priof	r to oi	DERING	S ANY I
11. ALL REC											
12. ELECTR 13. ALL REC											
14. ALL PEN											
BE PROVIDE GUIDELINES	S TO ENS	URE CO	ORREC	t and e	EFFECT	IVE INS	FALLATI	ON.			
15. WHERE RECESSED											
TELEP	10H	NF	& [		ΤA	RA		NA	YN	JO	TES
1. NO SECTION (										-0	
2. NO SECTION (	OF COND	UIT SHA	ALL COM	ITAIN M	ORE TH	AN TWO	90-DEG	REE BEI	NDS, OF	REQUIN	
			JTLET B	OXES, T	FI FCO	MMUNIC	ATIONS	CLOSET			)XES) I
							LL BOX		BE INST	ALLED.	,,,, <u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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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.

ROPER AND COMPLETE INSTALLATION OF ALL ELECTRIC WORK SHOWN ON THE

NS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE ELECTRICAL INSTALLATION,

NCE WITH THE LATEST REQUIREMENTS OF THE LOCAL, STATE AND NATIONAL CODES.

AND IN FULL ACCORDANCE WITH THE MOST MODERN ELECTRICAL CONSTRUCTION OF ANY DEFECTS.

AS WORKED IN. EMPTY BOXES, RUBBISH, AND OTHER CONSTRUCTION MATERIALS OF

OORDINATION WITH OTHER BUILDING TRADES AND G.C. BUILDING SCHEDULES. HALL BE MINIMUM #10 AWG.

Y POWER COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY O ORDERING ANY ELECTRICAL EQUIPMENT, SUCH AS, SWITCHGEAR, PANELS, SEQUENCE (HOT OR COLD) AND MAKE THE APPROPRIATE PROVISIONS FOR THE NDING, RACEWAYS, ETC... SHALL BE IN ACCORDANCE WITH THE UTILITY COMPANY'S

PHONE COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY WITH GANY ELECTRICAL EQUIPMENT, SUCH AS, TERMINAL BOARDS, GROUNDING,

R-PROOF WHILE IN-USE ENCLOSURE. (TYPICAL)

ALL LIGHT FIXTURES AS DIRECTED BY OWNER.

CIRCUIT NUMBER.

DATA OUTLETS, SWITCHES, BACKBOXES, ETC.. LOCATED IN EXTERIOR WALLS SHALL /ENT AIR LEAKAGE. FOLLOW CAULKING AND GASKET MANUFACTURERS INSTALLATION

E SHOWN ON THE PLANS THEY SHALL BE INSTALLED USING A LOW-VOLTAGE TRIC #5310-WH.PROVIDE POWER RECEPTACLE BACK-BOX AS REQUIRED. (TYPICAL)

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AMETER. MAY HAVE A

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F MOUNTING. ARDS, D THE

LSO BE TAKEN CABLE. E TERMINATED

CHES DEEP. EQUIRED, THE 4-11/16-INCH



RECEPTACLE BRANCH CIRCUIT WIRING SCHEDULE									
CONDUCTOR AWG.	MAXIMUM CONDUCTOR LENGTH AT 120V	GROUND CONDUCTOR AWG.							
#12	100'-0"	#12							
#10	#10								
#8	#8 255'-0" #10								
#6	405'-0"	#10							
RECEPTACLE	BRANCH CIRCUIT WIRING SCHE	EDULE NOTES:							
1. BASED ON 20A CIRCUIT LOADED TO 9A USING SINGLE PHASE, 2 WIRE CIRCUITS.									
2. THE ABOVE SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED FROM PANEL TO CENTER OF LEAD TO OVERCOME VOLTAGE DROP.									
	ISIONS FOR JUNCTION BOX AD O #12 WIRE FOR FINAL TERMIN								

LUMINAIRE BRANCH CIRCUIT WIRING SCHEDULE									
CONDUCTOR AWG.	GROUND CONDUCTOR AWG.								
#12	75'-0"	175'-0"	#12						
#10	#10								
#8	#8 190'-0" 445'-0" #10								
#6	300'-0"	-	#10						
LUMINAIRE BR	ANCH CIRCUIT WIF	RING SCHEDULE NO	DTES:						
1. BASED ON 2 CIRCUITS.	1. BASED ON 20A CIRCUIT LOADED TO 12A USING SINGLE PHASE, 2 WIRE								
2. THE ABOVE SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED FROM PANEL TO CENTER OF LEAD TO OVERCOME VOLTAGE DROP.									
	ISIONS FOR JUNCT O #12 WIRE FOR FII								

ALL CABLES AND WIRING INSTALLED ABOVE RETURN AIR PLENUM CEILINGS 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)

RAYMOND W. DUSSEAULT III RAYMOND W. DUSSEAULT III REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)
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Education Center & Pavilion
Revision Schedule Revision Number Revision Date
Issued for Construction
SHEET TITLE
ELECTRICAL LEGENDS & NOTES
DRAWN BY: SPC JOB NUMBER: 18050 CHECKED BY: RWD DATE: 06/15/2023
E0.0

SHEET:

OF:

	BRANCH CIRCUIT PANELBOARD SCHEDULE															
							BREAK	KERS								
DESIGNATION	BUS AMPS	MAIN	LOCATION	VOLTAGE	PH		USED						SPARE		MOUNTING	REMARKS
						1-POLE	2-POLE	3-POLE	1-POLE	2-POLE	3-POLE	POLES				
P-1A	400/3	400/3	SEE FLR. PLANS	208Y/120	3	(21) 15A, (39) 20A	(8) 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-1B	225/3	225/3	SEE FLR. PLANS	208Y/120	3	(4) 15A, (20) 20A	(3) 15A	(1) 150A	(5) 20A	-	-	60	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, (46) 20A	(5) 15A	(2) 35A	(5) 20A	-	-	84	SURFACE	DOUBLE-TUB. 100,000 A.I.C. PROVIDE WITH SURGE PROTECTION DEVICE. (SEE SPD NOTES ON THIS DRAWING).		
P-2B	225/3	150/3	SEE FLR. PLANS	208Y/120	3	(1) 15A, (25) 20A	(5) 15A	(2) 45A	(5) 20A	-	-	60	SURFACE	SINGLE-TUB. 100,000 A.I.C. PROVIDE WITH SURGE PROTECTION DEVICE. (SEE SPD NOTES ON THIS DRAWING).		
NOTES.																

1. 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.

2. 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. 3. 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.

4. SPACES SHALL BE PROVIDED WITH ALL REQUIRED BUSSING, SUPPORTS, CONNECTORS, ETC.. NECESSARY FOR FUTURE INSTALLATION OF CIRCUIT BREAKERS. 5. FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FIVE (5) EMPTY 1" EMT CONDUITS INSTALLED UP TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.

6. ALL PANELBOARDS SHALL HAVE HINGED "DOOR-IN-DOOR" TYPE COVERS. 7. REFER TO THE SPECIFICATIONS FOR ALL OTHER PANELBOARD REQUIREMENTS. SERIES RATED AND ALUMINUM ARE NOT ALLOWED.

8. 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.

9. ALL PANELBOARDS AND CIRCUIT BREAKERS SHALL BE FULLY RATED. SERIES RATED EQUIPMENT SHALL NOT BE USED

					DRY-TYPE TR								
				PR	IMARY		SECONDARY						
DESIGNATION			PROTECTI	VE DEVICE	FEEDER	VOLTS	PROTECTI	VE DEVICE	FEEDER	REMARKS			
DESIGNATION	κνΑ	VOLIS	LOCATION	SIZE	FEEDER	VOLIS	LOCATION	SIZE	FEEDER	REIVIARNO			
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			

4. ALL TRANSFORMER WINDINGS SHALL BE COPPER.

# SURGE PROTECTION DEVICE NOTES:

. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SURGE PROTECTION DEVICES FOR ALL PANELBOARDS FOR THIS PROJECT.

2. 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.

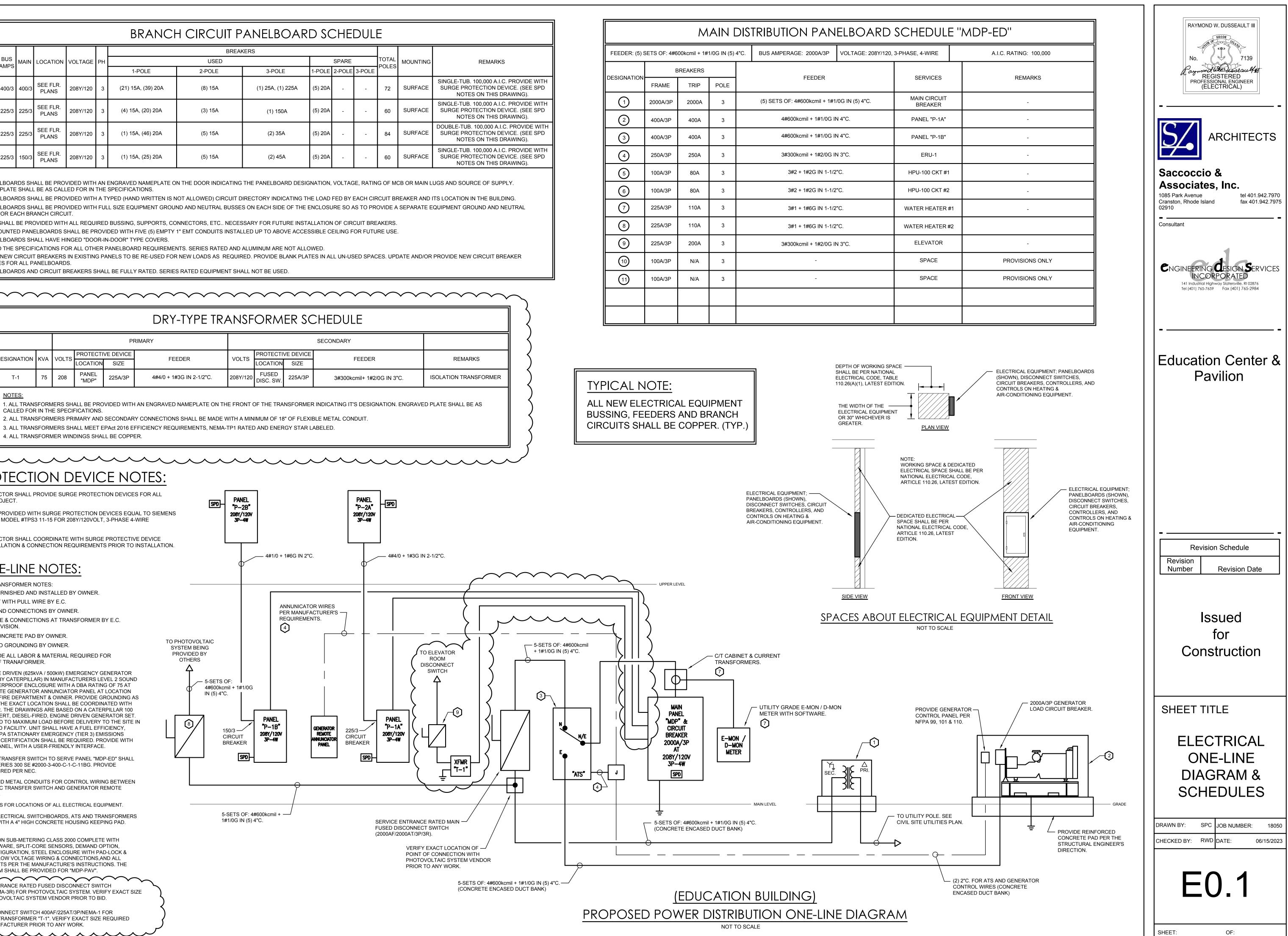
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SURGE PROTECTIVE DEVICE MANUFACTURER FOR INSTALLATION & CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.

# **POWER ONE-LINE NOTES:**

- NEW PADMOUNT TRANSFORMER NOTES: a. TRANSFORMER FURNISHED AND INSTALLED BY OWNER.
- b. PRIMARY CONDUIT WITH PULL WIRE BY E.C.
- c. PRIMARY CABLE AND CONNECTIONS BY OWNER.
- d. SECONDARY CABLE & CONNECTIONS AT TRANSFORMER BY E.C. WITH OWNER SUPERVISION.
- e. TRANSFORMER CONCRETE PAD BY OWNER.

f. TRANSFORMER PAD GROUNDING BY OWNER g. E.C. SHALL PROVIDE ALL LABOR & MATERIAL REQUIRED FOR SECONDARY SIDE OF TRANAFORMER.

- (2)DIESEL-FIRED, ENGINE DRIVEN (625kVA / 500kW) 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 EKW 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.
- 3 2000A/3P AUTOMATIC TRANSFER SWITCH TO SERVE PANEL "MDP-ED" SHALL BE EQUAL TO ASCO SERIES 300 SE #2000-3-400-C-1-C-11BG. PROVIDE GROUNDING AS REQUIRED PER NEC.
- PROVIDE (2) 1-1/2" RIGID METAL CONDUITS FOR CONTROL WIRING BETWEEN (4)THE J-BOX, AUTOMATIC TRANSFER SWITCH AND GENERATOR REMOTE ANNUNCIATOR PANEL.
- [5] REFER TO FLOOR PLANS FOR LOCATIONS OF ALL ELECTRICAL EQUIPMENT
- 6 ALL FREESTANDING ELECTRICAL SWITCHBOARDS, ATS AND TRANSFORMERS SHALL BE PROVIDED WITH A 4" HIGH CONCRETE HOUSING KEEPING PAD. (TYPICAL)
- 7 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".
- PROVIDE SERVICE ENTRANCE RATED FUSED DISCONNECT SWITCH 8 (2500AF/2000AT/3P/NEMA-3R) FOR PHOTOVOLTAIC SYSTEM. VERIFY EXACT SIZE REQUIRED WITH PHOTOVOLTAIC SYSTEM VENDOR PRIOR TO BID.
- 9 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. ·····



FEEDER: (5) S	SETS OF: 4#6	00kcmil + 1#	BUS AMPERAGE: 2000A/3P VOLTAGE									
DESIGNATION		REAKERS		FEEDER								
DESIGNATION	FRAME	TRIP	POLE		FEEDER							
	2000A/3P	2000A	3	(5) SETS OF: 4#600kcmil + 1#1/0G IN (5)								
2	400A/3P	400A	3		4#600kcmil + 1#1/0G IN 4"C.							
3	400A/3P	400A	3	4#600kcmil + 1#1/0G IN 4"C.								
4	250A/3P	250A	3	3#300kcmil + 1#2/0G IN 3"C.								
5	100A/3P	80A	3		3#2 + 1#2G IN 1-1/2"C.							
6	100A/3P	80A	3	3#2 + 1#2G IN 1-1/2"C.								
7	225A/3P	110A	3		3#1 + 1#6G IN 1-1/2	2"C.						
8	225A/3P	110A	3		3#1 + 1#6G IN 1-1/2	2"C.						
9	225A/3P	200A	3		3#300kcmil + 1#2/0G I	N 3"C.						
10	100A/3P	N/A	3		-							
(11)	100A/3P	N/A	3		-							

r																				
	BRANCH CIRCUIT PANELBOARD SCHEDULE																			
							BREAK	(ERS												
DESIGNATION	BUS	MAIN	LOCATION	VOLTAGE	ΡН		USED			SPARE		TOTAL	MOUNTING	REMARKS						
	AMPS					1-POLE	2-POLE	3-POLE	1-POLE	2-POLE	3-POLE	POLES								
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	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:																				
						ENGRAVED NAMEPLATE O SPECIFICATIONS.	N THE DOOR INDICATING	THE PANELBOARD DESI	GNATION,	VOLTAC	GE, RATIN	g of M	or main lu	UGS AND SOURCE OF SUPPLY.						
2. ALL PANE	ELBOAF	RDS SH	IALL BE PRO			PED (HAND WRITTEN IS N	OT ALLOWED) CIRCUIT D	IRECTORY INDICATING T	THE LOAD	FED BY	EACH CIR	CUIT BF	EAKER AND I	TS LOCATION IN THE BUILDING.						
3. 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.																				
4. SPACES	SHALL	BE PRO		HALL REQU	IIRED	BUSSING, SUPPORTS, CO	NNECTORS, ETC NECES	SARY FOR FUTURE INST	FALLATION	OF CIR	CUIT BRE	AKERS.								
5. FLUSH M	OUNTE	D PAN	ELBOARDS S	SHALL BE PI	ROVIE	DED WITH FIVE (5) EMPTY	1" EMT CONDUITS INSTAL	LED UP TO ABOVE ACCE	ESSIBLE C	EILING F	OR FUTU	RE USE.								

6. ALL PANELBOARDS SHALL HAVE HINGED "DOOR-IN-DOOR" TYPE COVERS.

7. REFER TO THE SPECIFICATIONS FOR ALL OTHER PANELBOARD REQUIREMENTS. SERIES RATED AND ALUMINUM ARE NOT ALLOWED. 8. 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. 9. ALL PANELBOARDS AND CIRCUIT BREAKERS SHALL BE FULLY RATED. SERIES RATED EQUIPMENT SHALL NOT BE USED.

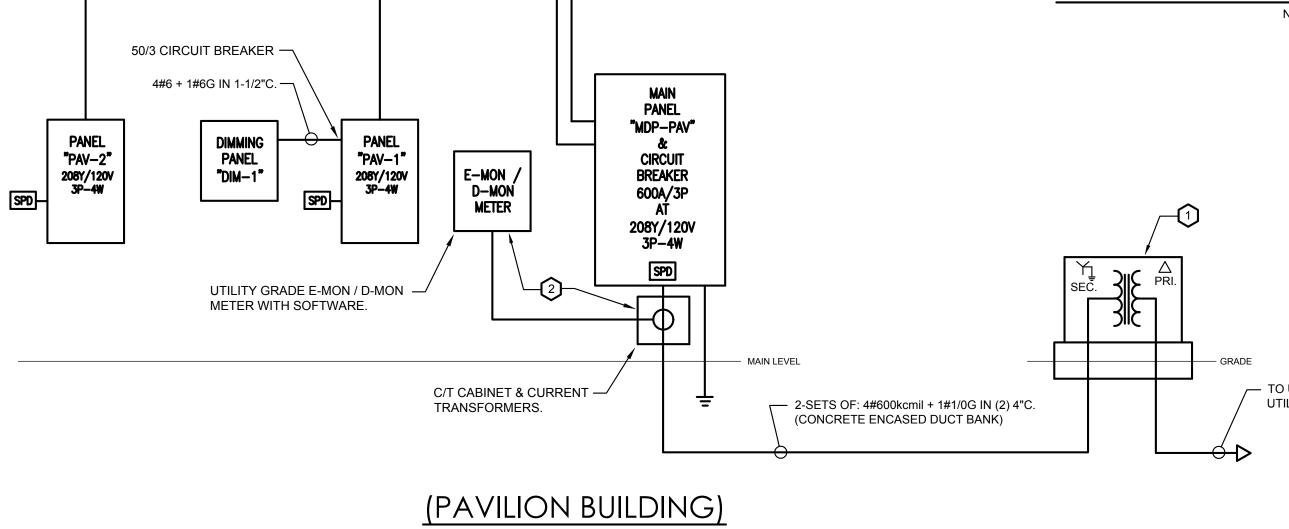
# TYPICAL NOTE:

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

INSTALLATION.

# POWER ONE-LINE NOTES:

- NEW PADMOUNT TRANSFORMER NOTES:
  - a. TRANSFORMER FURNISHED AND INSTALLED BY OWNER. b. PRIMARY CONDUIT WITH PULL WIRE BY E.C.
  - c. PRIMARY CABLE AND CONNECTIONS BY OWNER.
  - d. SECONDARY CABLE & CONNECTIONS AT TRANSFORMER BY E.C. WITHOWNER SUPERVISION.
  - e. TRANSFORMER CONCRETE PAD BY OWNER.
  - f. TRANSFORMER PAD GROUNDING BY OWNER.
  - g. E.C. SHALL PROVIDE ALL LABOR & MATERIAL REQUIRED FOR SECONDARY SIDE OF TRANAFORMER.
- 2 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".
- 3 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. 4 (TYPICAL)



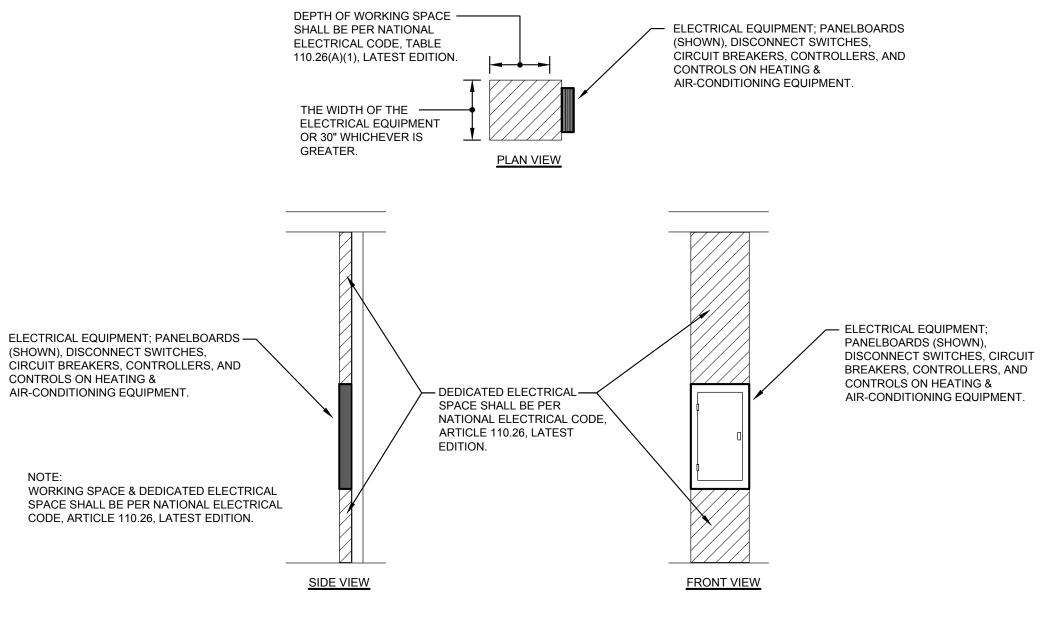
	MAIN DISTRIBUTION PANELBOARD SCHEDULE "MDP-PAV"										
FEEDER: (2) S	EEDER: (2) SETS OF: 4#600kcmil + 1#1/0G IN (2) 4"C. BUS AMPERAGE: 600A/3P VOLTAGE: 208Y/120, 3-PHASE, 4-WIRE A.I.C. RATING: 65,000										
DESIGNATION	В	REAKERS		FEEDER		SERVICES	REMARKS				
DEGIGIN/THOM	FRAME	TRIP	POLE	I LEDEK		GERVICED					
	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 I	N 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						

# SURGE PROTECTION DEVICE NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SURGE PROTECTION DEVICES FOR ALL PANELBOARDS FOR THIS PROJECT. 2. 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

3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SURGE PROTECTIVE DEVICE MANUFACTURER FOR INSTALLATION & CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.





PROPOSED POWER DISTRIBUTION ONE-LINE DIAGRAM

NOT TO SCALE

SPACES ABOUT ELECTRICAL EQUIPMENT DETAIL NOT TO SCALE

> — TO UTILITY POLE. SEE CIVIL SITE UTILITIES PLAN.

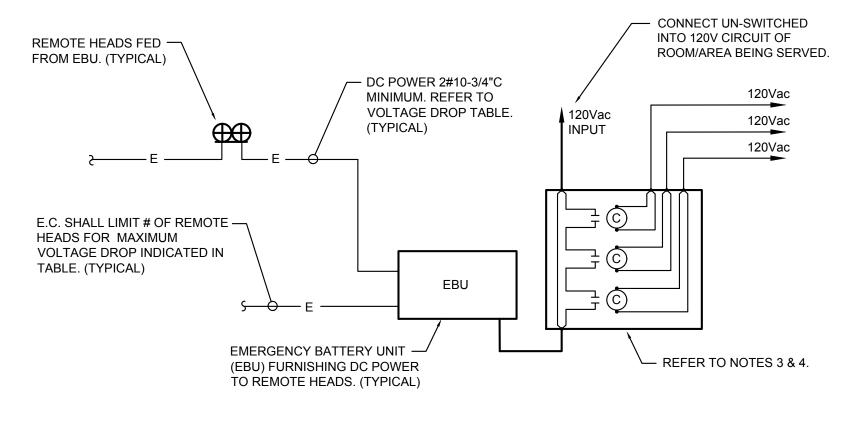
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SHEET: OF:

# 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
EBU #1A	EMERGENCY BATTERY UNIT (DUAL ATTACHED HEADS) WITH REMOTE CAPABILITIES. EQUAL TO LITHONIA #ELT-275W-W-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
<b>♦</b>	SINGLE FACE LED LIGHTED EXIT SIGN WITH EMERGENCY BATTERY BACK-UP. EQUAL TO LITHONIA #LRP-1-RC-(SEE PLANS FOR DIRECTIONAL INDICATORS)120/277-ELN. PROVIDE ARROWS WHERE INDICATED ON PLANS.	CEILING
t⊖t	DOUBLE FACE LED LIGHTED EXIT SIGN WITH EMERGENCY BATTERY BACK-UP. EQUAL TO LITHONIA #LRP-2-RMR-(SEE PLANS FOR DIRECTIONAL INDICATORS)120/277-ELN. PROVIDE ARROWS WHERE INDICATED ON PLANS.	CEILING

## 12-VOLT SYSTEM VOLTAGE DROP TABLE

TOTAL WATTS		WIRE	GAUGE		
ON WIRE RUN	12	10	8	6	
6 7 8 10 12 14 16 18 20 21 24 24 25 30 30 30 30 35 40 48 50 100 125 150 175 200 255 200 255 250 255 250 255 200 255 200 255 200 255 200 255 200 255 200 255 200 255 200 255 200 255 200 255 255 255 255 255 255	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	515	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		MAXIMUM LENGTH OF RUN IN FEET



## NOTES:

1. E.C. SHALL PROVIDE CIRCUIT BREAKER "LOCK-ON" DEVICE FOR ALL CIRCUITS TO EMERGENCY BATTERY UNITS (EBU). (TYPICAL)

2. DETAIL IS TYPICAL TO ALL DRAWINGS, UON.

3. 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.

4. STAIRWAY EBU'S DO NOT REQUIRE RELAY PANEL. CORRIDOR EBU'S 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. RADIO ANTENNA THE LOCAL FIRE DEPARTMENTS REQUIREMENTS.

RADIO MASTER-BOX PER – THE LOCAL FIRE DEPARTMENTS REQUIREMENTS.

<u>FIRE ALARM NOTES</u>		
1. E.C. SHALL PROVIDE CIRCUIT BREAKER LOCK-ON DEVICES FOR FACP AND NAC CIRCUIT. 2. E.C. SHALL FURNISH AND INSTALL REMOTE INDICATING LIGHTS/TEST SWITCHES FOR DUCT SMOKE DETECTORS.		
3. REFER TO FLOOR PLANS FOR EXACT NUMBER OF DEVICES AND CANDELA RATINGS.	NFPA SYMBOL	PLAN SYMBOL
4. COLOR CODE WIRING PER THE LATEST EDITION OF THE STATE FIRE CODE. 5. SPLICES WILL NOT BE ALLOWED. WIRENUTS WILL NOT BE ALLOWED.		
6. RED PAINTED TERMINAL CABINETS & BOXES WITH LOCKABLE COVERS SHALL BE PROVIDED AT ALL JUNCTION POINTS.	3	<b>SD</b>
7. 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.		H
8. THE CONTRACTOR AT COMPLETETION 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.	€ F	(H) <sub>197</sub>
9. 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.		
10. ALL FIRE ALARM SYSTEM COMPONENTS & MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS.	( <b>2</b> ) <sub>P</sub>	SD
11. E.C. SHALL PROVIDE ANY AND ALL AUXILARY EQUIPMENT IN ORDER TO PROVIDE A COMPLETE, PROPERLY FUNCTIONING SYSTEM. COORDINATE REQUIREMENTS WITH LOCAL MANUFACTURERS REP.	Ŷ	
12. ALL FIRE ALARM STROBE SIGNAL DEVICES SHALL BE SYNCHRONIZED TYPE DEVICES AND COMPLY WITH ADA REQUIREMENTS.	<b>⊢∕</b> →	(FS)
13. NO T-TAPPING OF FIRE ALARM WIRING SHALL BE ALLOWED. (TYPICAL) 14. ALL FIRE ALARM WIRING & RACEWAY SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT BE LOCATED AS TO BE DAMAGED		
BY BUILDING USE. 15. PROVIDE A WEATHER-PROOF KNOX-BOX 3200 SERIES ON THE EXTERIOR OF THE BUILDING. COORDINATE EXACT LOCATION WITH LOCAL FIRE DEPARTMENT.	<u>ب</u> هر	(13)
16. 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)	, <b></b> ,	ß
17. 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.		
18. 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	R	R
ISOLATION MODULES SHALL BE INSTALLED TO PREVENT A WIRE-TO-WIRE SHORT CIRCUIT FAULT ON ONE FLOOR TO DISABLE THE CIRCUIT ON ANOTHER FLOOR.	P	F
19. WIRING FOR THE FIRE ALARM SYSTEM SHALL BE CLASS "A". 20. REFER TO THE SPECIFICATIONS FOR THE "SEQUENCE OF OPERATION" AND ADDITIONAL INFORMATION.	文 75cd	<b>₹</b> 75cd
21. E.C. SHALL PRODUCE A MANUFACTURER'S COMPLETE FIRE ALARM SYSTEM ONE-LINE DIAGRAM AND ADDRESS PLAN DURING THE SHOP DRAWING SUBMITTAL PROCESS.		
22. 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.	<b>⊠</b> ⊲	75cd
23. 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.		FWP
ALARIM STSTEM AS REQUIRED.		75cd
	ĭ ⊠⊲	F ₩P
		0
NOTE:		۳ آ
REFER TO PLANS FOR ACTUAL QUANTITY OF DEVICES. (TYP)		۲۵ ج
		CM
		M
	<b>X</b> <sub>RTS</sub>	RTS
TYPICAL NOTIFICATION CIRCUIT	RIL	RIL
"NAC" PANEL	К	K
QUANTITY OF DEVICES. (TYP)	WP	B B
		-
NOTE: PROVIDE PER	F/SD	F/SD
MANUFACTURERS RECOMMENDATIONS. <u>TYPICAL ADDRESSABLE LOOP</u> (TYPICAL)		
	FACP	FACP
	FAA	FAA
S. PURPOSES ONLY TO THE CONFIGURATION S. OF THE SYSTEM. COORDINATE WITH THE	NAC	NAC
MANUFACTURER FOR ACTUAL WIRING AND CONNECTION REQUIREMENTS. THIS		

SCHEMATIC DOES NOT INDICATE ALL

DEVICES.

– FIRE ALARM SYSTEM DRILL

LOCATION WITH OWNER.

SWITCH IN OFFICE. VERIFY EXACT

DH

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TYPICAL FIRE ALARM SCHEMATIC

FAA

WP K

EMERGENCY

VOICE

EVACUATION

FIRE ALARM

CONTROL

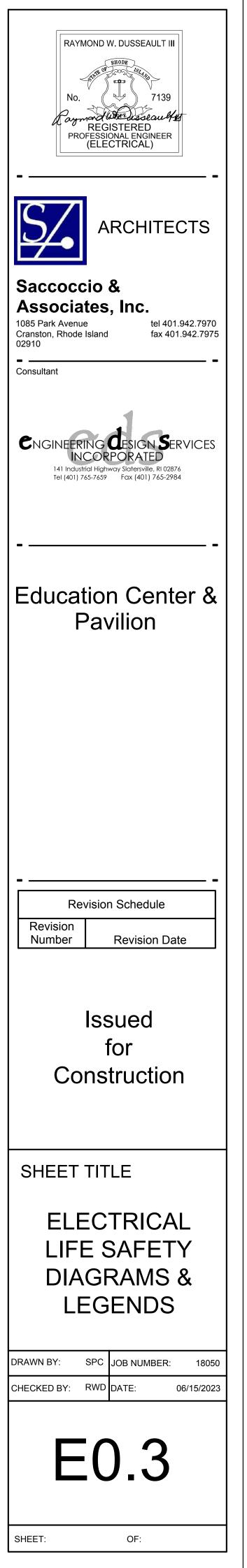
PANEL

BATTERIES

NOT TO SCALE

120Vac

-	DESCRIPTION	MOUNTING
F	IRE ALARM SYSTEM PHOTOELECTRIC SMOKE DETECTOR.	CEILING
,	FIRE ALARM SYSTEM COMBINATION RATE OF RISE AND 135-DEGREES FAHRENHEIT FIXED TEMPERATURE HEAT DETECTOR.	CEILING
	FIRE ALARM SYSTEM 197-DEGREES FAHRENHEIT FIXED TEMPERATURE HEAT DETECTOR.	CEILING
	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR; INSTALLED BY HVAC CONTRACTOR & FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR.	CEILING
I	FIRE SPRINKLER SYSTEM FLOW SWITCH; FURNISHED & INSTALLED BY F.P. CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR NTO THE FIRE ALARM SYSTEM VIA AN INDIVIDUAL ADDRESSABLE MONITOR MODULE.	VALVE
	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
	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
	FIRE ALARM SHUT DOWN RELAY.	
	FIRE ALARM SYSTEM MANUAL DOUBLE ACTION PULL STATION.	48" AFF TO TOP OF HANDLE.
	FIRE ALARM SYSTEM STROBE. ALL STROBES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "75cd" INDICATES CANDELA RATING OF STROBE.	80" AFF
	FIRE ALARM SYSTEM AUDIBLE/STROBE. ALL AUDIBLE/STROBES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "WP" INDICATES TO PROVIDE WEATHER-PROOF DEVICE. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE. "75cd" INDICATES CANDELA RATING OF STROBE.	80" AFF
	FIRE ALARM SYSTEM CEILING TYPE AUDIBLE/STROBE. ALL AUDIBLE/STROBES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "WP" INDICATES TO PROVIDE WEATHER-PROOF DEVICE. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE.	CEILING
	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
	FIRE ALARM SYSTEM CEILING TYPE MINI-HORN/STROBE. ALL AUDIBLE DEVICES SHALL BE SYNCHRONIZED AND COMPLY WITH ADA. "LF" INDICATES HORN SHALL BE 520Hz LOW-FREQUENCY TYPE DEVICE.	CEILING
	FIRE ALARM SYSTEM CONTROL MODULE.	
	FIRE ALARM SYSTEM MONITOR MODULE.	
	FIRE ALARM SYSTEM DEVICE REMOTE TEST STATION WITH LED NDICATING LIGHT.	
l	FIRE ALARM SYSTEM DEVICE WITH LED INDICATING LIGHT TO DISPLAY ALARM CONDITION OF REMOTE DETECTOR. CENTER ABOVE DOOR.	
	FIRE ALARM MASTER BOX.	
١	WEATHER-PROOF KNOX-BOX. LOCATE PER LOCAL AHJ.	
	FIRE ALARM SYSTEM BEACON. "WP" INDICATES TO PROVIDE WEATHER-PROOF DEVICE.	
	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.	
	ADDRESSABLE FIRE ALARM CONTROL UNIT (PANEL).	
	REMOTE FIRE ALARM ANNUNCIATOR (PANEL).	
-	FIRE ALARM SYSTEM NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL (BOOSTER).	
L	LOW VOLTAGE MAGNETIC DOOR HOLDER TIE INTO THE FIRE ALARM SYSTEM VIA AN INDIVIDUAL CONTROL RELAY MODULE.	
	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
	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



## LIGHTING COMMISSIONING NOTES:

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 PROJECTS SCOPE OF WORK. IF FINDINGS, NON-ACCESS TO REVIEW SYSTEM OR CONCLUSIONS REQUIRE ADDITIONAL SITES 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 MANUFACTURERS 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.

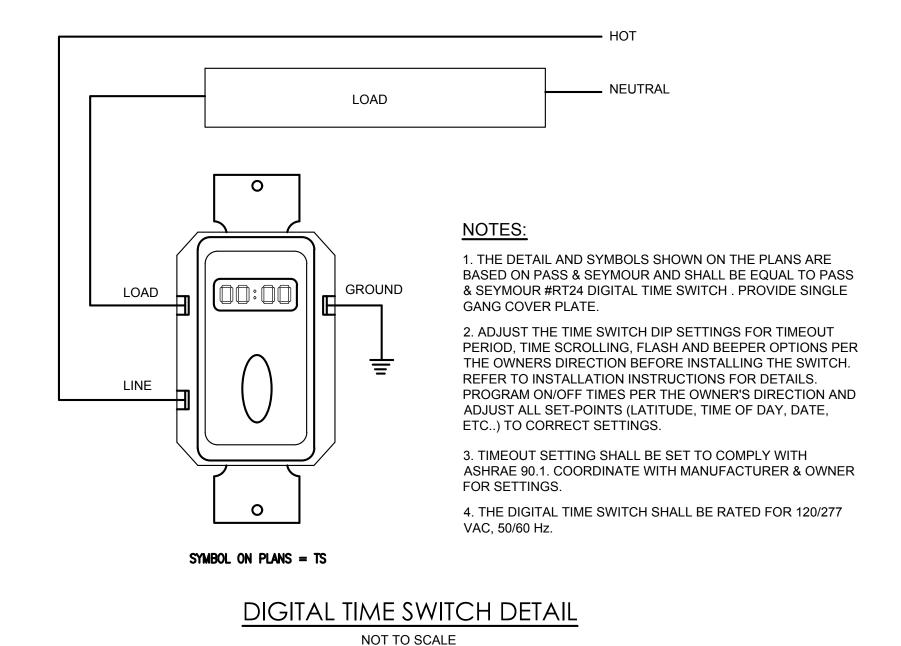
SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING

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:

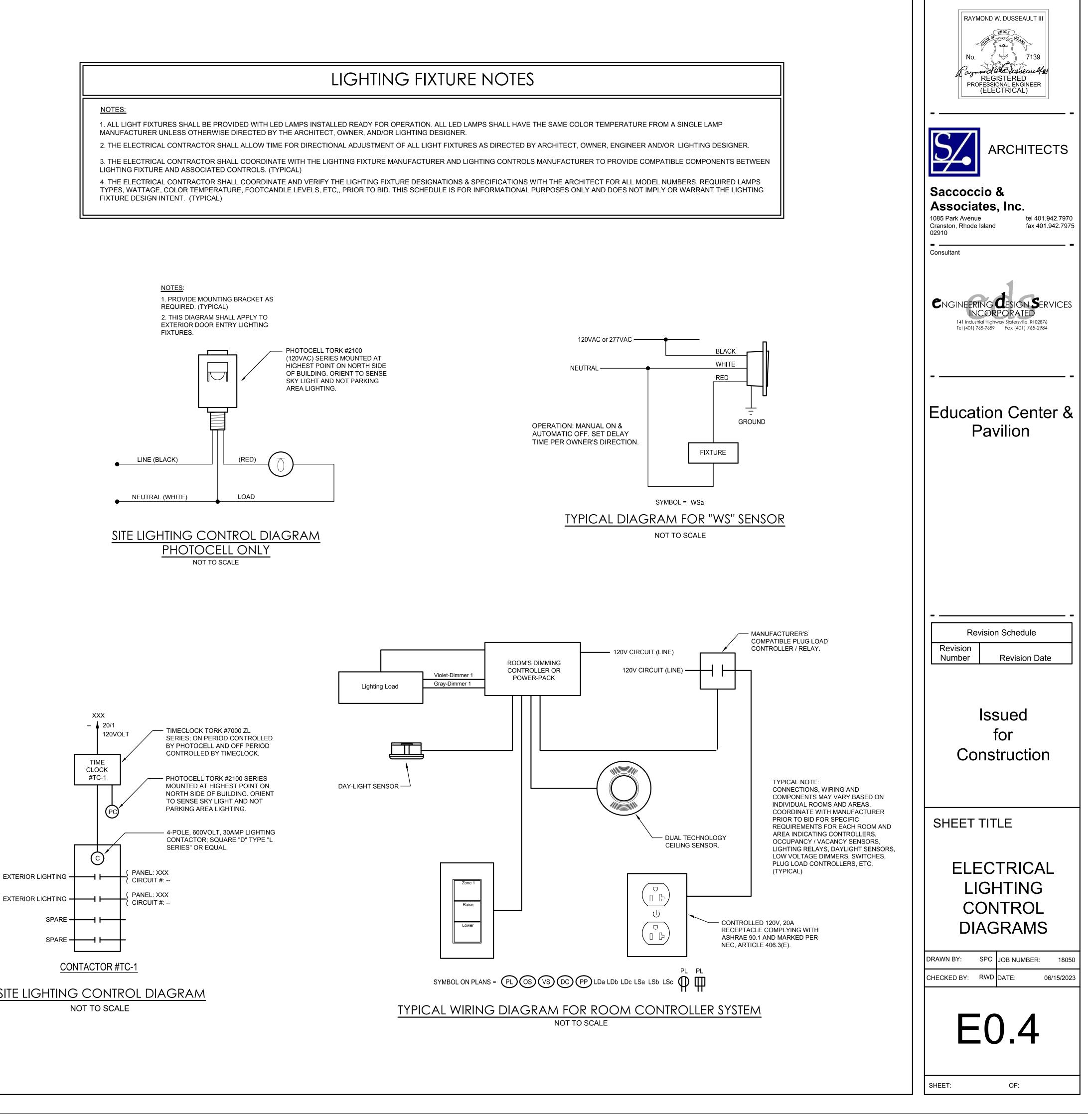
A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:

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



LIGHTING FIXTURE AND ASSOCIATED CONTROLS. (TYPICAL)

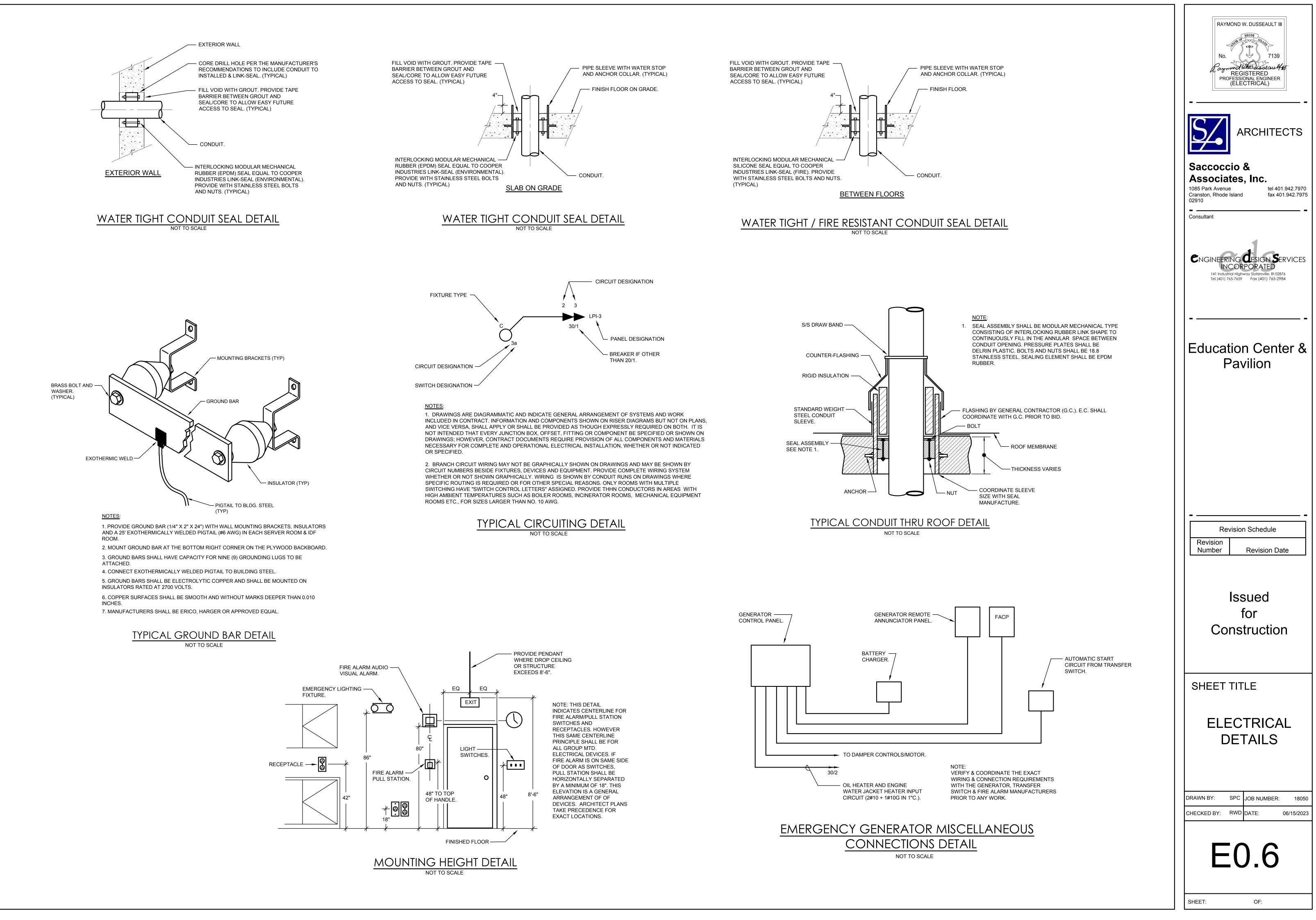
FIXTURE DESIGN INTENT. (TYPICAL)

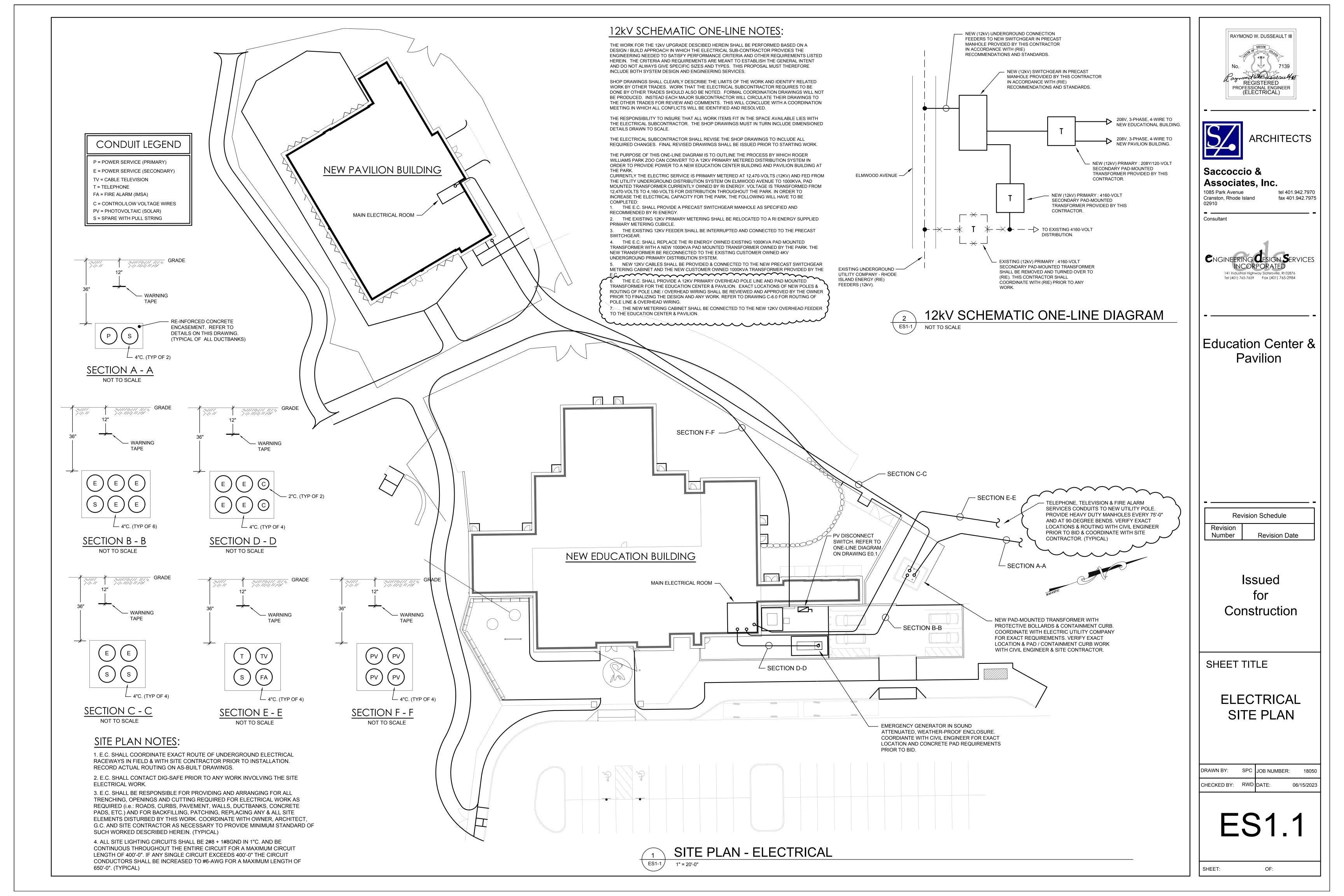


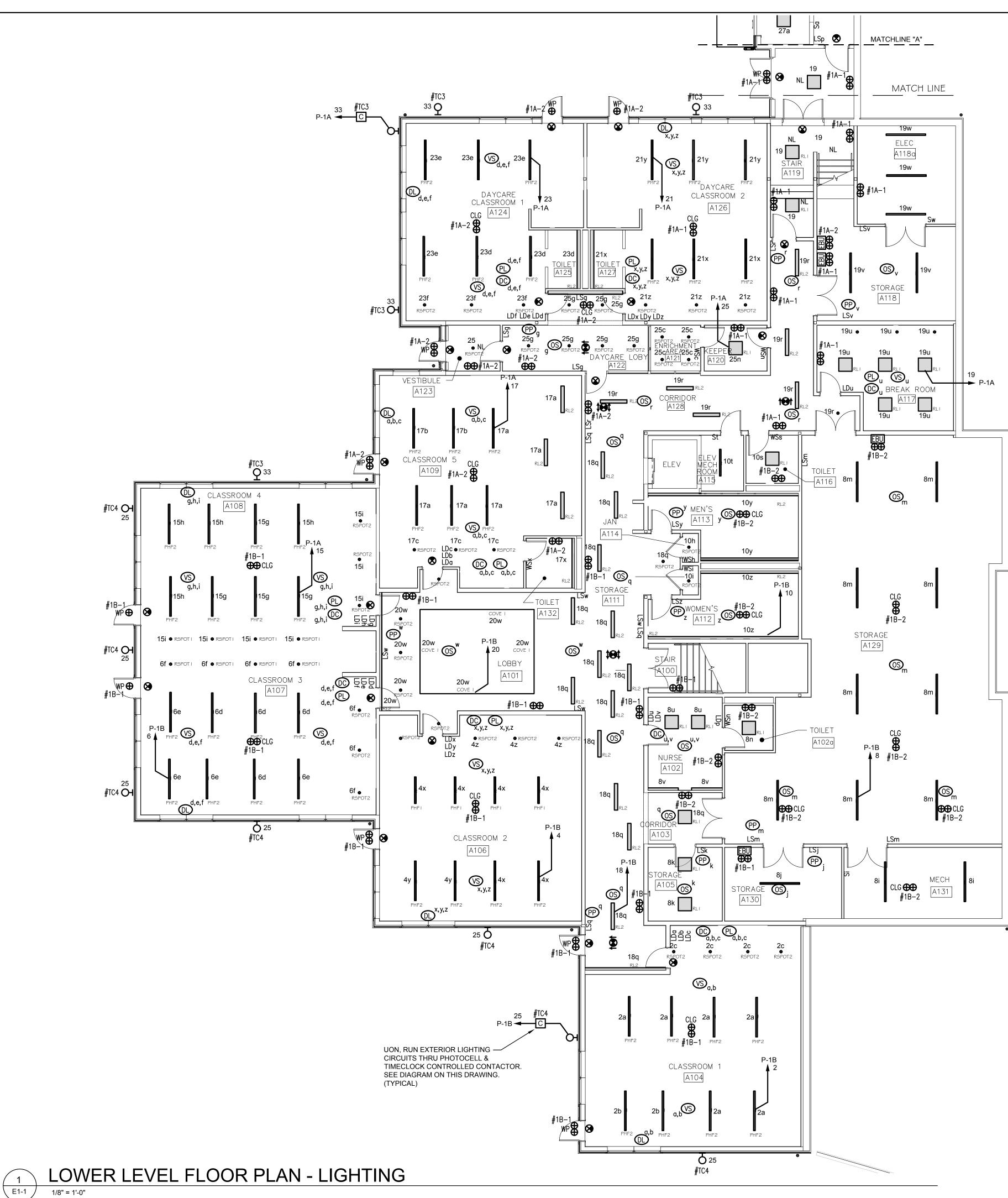
SITE LIGHTING CONTROL DIAGRAM

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		<u> </u>						TRICAL CONN								1						CTRICAL CONNE			
ITEM No.	DESCRPITION		VOLTS PH	-		CIRCUIT	CIRCUIT BREAKER (HACR TYPE)	FEEDER & CONDUIT		SCONNEC FUSE			MANUAL MOTOR CONTROLLER	ITEM No.	DESCRPITION			T CHARACTER		CIRCUIT	CIRCUIT BREAKER (HACR TYPE)	FEEDER & CONDUIT	-	POLES	MANUAL MOTOR CONTROLLER
ERU-1	ENERGY RECOVERY UNIT	5400	208 3	60	246.9	MDP-ED	250/3	3#250kcmil + 1#4G IN 3"C.	400	250	3	3R	NEMA-3R MAGNETIC MOTOR STARTER.	VAV-1	VARIABLE AIR VOLUME UNIT	т 470	120	1 60	-	P-1B / 12	15/1	2#12 + 1#12G IN 3/4"C. 30	15	1	1 MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS
HPU-100		N/A	208 3	60	49	MDP-ED	80/3	3#2 + 1#8G IN 1-1/2"C.	100	80	3	3R	NEMA-3R MAGNETIC MOTOR STARTER.	VAV-2	VARIABLE AIR VOLUME UNI	Г 450	120	1 60	-			2#12 + 1#12G IN 3/4"C. 30	15	1	1 MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS
	(2 CONNECTIONS)	N/A	208 3	60	49	MDP-ED	80/3	3#2 + 1#8G IN 1-1/2"C.	100	80	3	3R	NEMA-3R MAGNETIC MOTOR STARTER.	VAV-3	VARIABLE AIR VOLUME UNIT	T 450	120	1 60	-	P-1B / 14	15/1	2#12 + 1#12G IN 3/4"C. 30	15	1	1 MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS
HPU-200	HEAT PUMP (2 CONNECTIONS)	N/A	208 3	60	31	P-2B / 28,30,32	45/3	3#6 + 1#8G IN 1"C.	60	45	3	3R	NEMA-3R MAGNETIC MOTOR STARTER.	VAV-4	VARIABLE AIR VOLUME UNIT	450	120	1 60	-			2#12 + 1#12G IN 3/4"C. 30	15	1	1 MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS
		N/A	208 3	60	31	P-2B / 34,36,38	45/3	3#6 + 1#8G IN 1"C.	60	45	3	3R	NEMA-3R MAGNETIC MOTOR STARTER.	VAV-5	VARIABLE AIR VOLUME UNI	T 450	120	1 60	-	P-1B / 16	15/1	2#12 + 1#12G IN 3/4"C. 30	15	1	1 MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS
HPU-210	HEAT PUMP (2 CONNECTIONS)	N/A	208 3	60	23	P-2A / 30,32,34	35/3	3#8 + 1#8G IN 1"C.	60	45	3	3R	NEMA-3R MAGNETIC MOTOR STARTER. NEMA-3R MAGNETIC MOTOR	VAV-6	VARIABLE AIR VOLUME UNIT		120	1 60	-	P-1A / 13	15/1	2#12 + 1#12G IN 3/4"C. 30	15	1	1 MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS MOTOR RATED TOGGLE SWITCH /
F0.404		N/A	208 3	60	23	P-2A / 36,38,40	35/3	3#8 + 1#8G IN 1"C.	60	35	3	3R	MAGNETIC MOTOR STARTER	VAV-7			120	1 60	-		"OLL 4"	2#12 + 1#12G IN 3/4"C. 30	15	1	1         STARTER WITH THERMAL OVERLOADS           1         MAGNETIC MOTOR STARTER
FC-101 FC-102	FAN COIL UNIT	600 880	208 1 208 1	60 60	2.9 2.9	P-1B / 29,31	15/2	2#12 + 1#12G IN 3/4"C. 2#12 + 1#12G IN 3/4"C.	30	15	2	1 3D	MAGNETIC MOTOR STARTER	SAC-1 	A/C INDOOR UNIT	424 N/A	208 208	1 60 1 60	1	FEED FROM P-2B / 31,33	15/2			2	3R NEMA-3R MAGNETIC MOTOR
FC-102 FC-103	FAN COIL UNIT	880	208 1	60	2.9			2#12 + 1#12G IN 3/4"C.	30	15	2	1	MAGNETIC MOTOR STARTER	WH-1	ELEC WATER HEATER	N/A	200	3 60	83.3	MDP-ED	110/2	2#12 + 1#12G IN 3/4"C. 30 3#1 + 1#6G IN 1-1/2"C. 200		3	3R N/A
FC-104	FAN COIL UNIT	880	208 1	60	2.9	P-1B / 33,35	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	WH-2	ELEC WATER HEATER	N/A	208	3 60	83.3	MDP-ED	110/3	3#1 + 1#6G IN 1-1/2"C. 200		3	3R N/A
FC-105	FAN COIL UNIT	880	208 1	60	2.9			2#12 + 1#12G IN 3/4"C.	30	15	2	1	MAGNETIC MOTOR STARTER	EUH-1	ELEC UNIT HEATER	350	208	3 60	18.1	P-1A / 56,58,60	25/3	3#10 + 1#10G IN 3/4"C. 30	-	3	3R N/A
FC-106	FAN COIL UNIT	880	208 1	60	2.9	P-1B / 37,39	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
FC-107	FAN COIL UNIT	230	208 1	60	0.2			2#12 + 1#12G IN 3/4"C.	30	15	2	1	MAGNETIC MOTOR STARTER	MAU-1	MAKE-UP AIR UNIT	-	208	3 60	63.4	PAV-2 / 1,3,5	70/3	3#4 + 1#8G IN 1-1/2"C. 100	70	3	3R STARTER.
FC-108	FAN COIL UNIT	330	208 1	60	0.3			2#12 + 1#12G IN 3/4"C.	30	15	2	1	MAGNETIC MOTOR STARTER	KEF-1	KITCHEN EXHAUST FAN	-	208	3 60	5.7	PAV-2 / 7,9,11	15/3	3#12 + 1#12G IN 3/4"C. 30	15	3	3R STARTER.
FC-109	FAN COIL UNIT	210	208 1	60	1.2	P-1A / 1,3	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	AHU-1	AIR-HANDLING UNIT	-	208	3 60	23.3	PAV-2 / 13,15,17	30/3	3#8 + 1#8G IN 1-1/4"C. 30	30	3	3R STARTER.
FC-110	FAN COIL UNIT	670	208 1	60	0.5			2#12 + 1#12G IN 3/4"C.	30	15	2	1	MAGNETIC MOTOR STARTER	AHU-2		-	208	3 60	23.3	PAV-2 / 2,4,6	30/3	3#8 + 1#8G IN 1-1/4"C. 30 3#2 + 1#8G IN 1-1/2"C. 100	30	3	3R STARTER.
FC-111	FAN COIL UNIT	670	208 1	60	0.5			2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	CU-1 CU-2	CONDENSER UNIT	_	208 208	3 60 3 60	66	PAV-2 / 8,10,12 PAV-2 / 14,16,18	90/3 90/3	3#2 + 1#8G IN 1-1/2"C. 100 3#2 + 1#8G IN 1-1/2"C. 100	_	3	3R STARTER.
FC-112	FAN COIL UNIT	330	208 1	60	0.3	P-1A / 5,7	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	DEF-1	EXHAUST FAN	525		3 60	6.3	PAV-2 / 14, 10, 18 PAV-2 / 20,22,24	15/3	3#12 + 1#12G IN 3/4"C. 30		3	3R STARTER. NEMA-3R MAGNETIC MOTOR STARTER.
FC-113	FAN COIL UNIT	210	208 1	60	1.2			2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	EF-1	EXHAUST FAN	300		1 60	1.4	PAV-2 / 19	15/1	2#12 + 1#12G IN 3/4"C. N/A		N/A	N/A NEMA-3R MOTOR RATED TOGGLE SWITCH STARTER WITH THERMAL OVERLOADS.
FC-114	FAN COIL UNIT	230	208 1	60	0.2			2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	EF-2	EXHAUST FAN	300		1 60	1.4	PAV-2 / 21	15/1	2#12 + 1#12G IN 3/4"C. N/A	-	N/A	N/A         NEMA-3R MOTOR RATED TOGGLE SWITCH STARTER WITH THERMAL OVERLOADS.
FC-115	FAN COIL UNIT	280	208 1	60	0.3	P-1A / 9,11	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	CEF-1	EXHAUST FAN	300	120	1 60	0.3			2#12 + 1#12G IN 3/4"C. N/A	N/A	N/A	N/A NEMA-3R MOTOR RATED TOGGLE SWITCH STARTER WITH THERMAL OVERLOADS.
FC-116	FAN COIL UNIT	490	208 1	60	2.9			2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	CEF-2	EXHAUST FAN	300	120	1 60	0.3	PAV-2 / 23	15/1	2#12 + 1#12G IN 3/4"C. N/A	N/A	N/A	N/A NEMA-3R MOTOR RATED TOGGLE SWITCH STARTER WITH THERMAL OVERLOADS.
FC-201	FAN COIL UNIT	330	208 1	60	0.3	P-2B / 13,15	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	RLD-101 thru 107	EXHAUST FAN	N/A	120	1 60	.044 ea.	. P-1B / 63	15/1	2#12 + 1#12G IN 3/4"C. N/A	N/A	N/A	N/A RECESSED 2-GANG ELECTRICAL BOX PER MANUFACTURER'S INSTRUCTIONS FOR EACH SENSOR.
FC-202	FAN COIL UNIT	210	208 1	60	1.2			2#12 + 1#12G IN 3/4"C.	30	15	2	1	MAGNETIC MOTOR STARTER	RLD-108 thru 115	EXHAUST FAN	N/A	120	1 60	.044 ea.	. P-1A / 26	15/1	2#12 + 1#12G IN 3/4"C. N/A	N/A	N/A	N/A RECESSED 2-GANG ELECTRICAL BOX PER MANUFACTURER'S INSTRUCTIONS FOR EACH SENSOR.
FC-203	FAN COIL UNIT	210	208 1	60	1.2			2#12 + 1#12G IN 3/4"C.	30	15	2	1	MAGNETIC MOTOR STARTER	RLD-202 thru 211	EXHAUST FAN	N/A	120	1 60	.044 ea.	. P-2B / 48	15/1	2#12 + 1#12G IN 3/4"C. N/A	N/A	N/A	N/A RECESSED 2-GANG ELECTRICAL BOX PER MANUFACTURER'S INSTRUCTIONS FOR EACH SENSOR.
FC-204	FAN COIL UNIT	230		60	0.2	P-2B / 17,19	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER	RLD-212 thru 221	EXHAUST FAN	N/A	120	1 60	.044 ea.	. P-2A / 41	15/1	2#12 + 1#12G IN 3/4"C. N/A	N/A	N/A	RECESSED 2-GANG ELECTRICAL BOX PER N/A MANUFACTURER'S INSTRUCTIONS FOR EACH SENSOR.
FC-205	FAN COIL UNIT	230		60	0.2			2#12 + 1#12G IN 3/4"C.	30	15	2	1	MAGNETIC MOTOR STARTER	NOTES:								STALLING ELECTRICAL COMPONENTS.			
FC-206		230		60	0.2	P-2B / 21,23	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R										TALLING ELECTRICAL COMPONENTS.			
FC-207	FAN COIL UNIT	670		60 60	0.5			2#12 + 1#12G IN 3/4"C. 2#12 + 1#12G IN 3/4"C.	30	15 15	2	3R 3R	MAGNETIC MOTOR STARTER												
FC-208		230 230		60	0.2			2#12 + 1#12G IN 3/4 C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
FC-209 FC-210	FAN COIL UNIT	230	208 1	60	0.2	P-2B / 25,27	15/2	2#12 + 1#12G IN 3/4 C.	30	15	-	3R 3R	MAGNETIC MOTOR STARTER												
FC-210 FC-211	FAN COIL UNIT	230		60	0.2			2#12 + 1#12G IN 3/4"C.	30	15	- 2	3R 3R	MAGNETIC MOTOR STARTER												
FC-212	FAN COIL UNIT	880	208 1	60	2.9	P-2A / 2,4	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	1	MAGNETIC MOTOR STARTER												
FC-213	FAN COIL UNIT	280	208 1	60	0.3	P-2A / 6,8	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
FC-214	FAN COIL UNIT	1080	208 1	60	4.3	P-2A / 10,12	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
FC-215	FAN COIL UNIT	490	208 1	60	2.9			2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
FC-216	FAN COIL UNIT	210	208 1	60	1.2	P-2A / 14,16	15/2 —	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
FC-217	FAN COIL UNIT	280	208 1	60	0.3	D 24 / 40 00	45/0	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
FC-218	FAN COIL UNIT	210	208 1	60	1.2	P-2A / 18,20	15/2 —	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
BC-100	BRANCH CONTROLLER	N/A	208 1	60	1.6	XXX / XX	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
BC-200	BRANCH CONTROLLER	N/A	208 1	60	1.6	XXX / XX	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
BC-201	BRANCH CONTROLLER	N/A	208 1	60	0.7	XXX / XX	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
BC-211	BRANCH CONTROLLER	N/A	208 1	60	0.4	XXX / XX	15/2	2#12 + 1#12G IN 3/4"C.	30	15	2	3R	MAGNETIC MOTOR STARTER												
<u>NOTES:</u> 1. COORDI	NATE WITH HVAC CONTRAC	TOR FOR	EXACT LOCA	TIONS OF	ALL MECH			ALLING ELECTRICAL COMPONENTS.																	

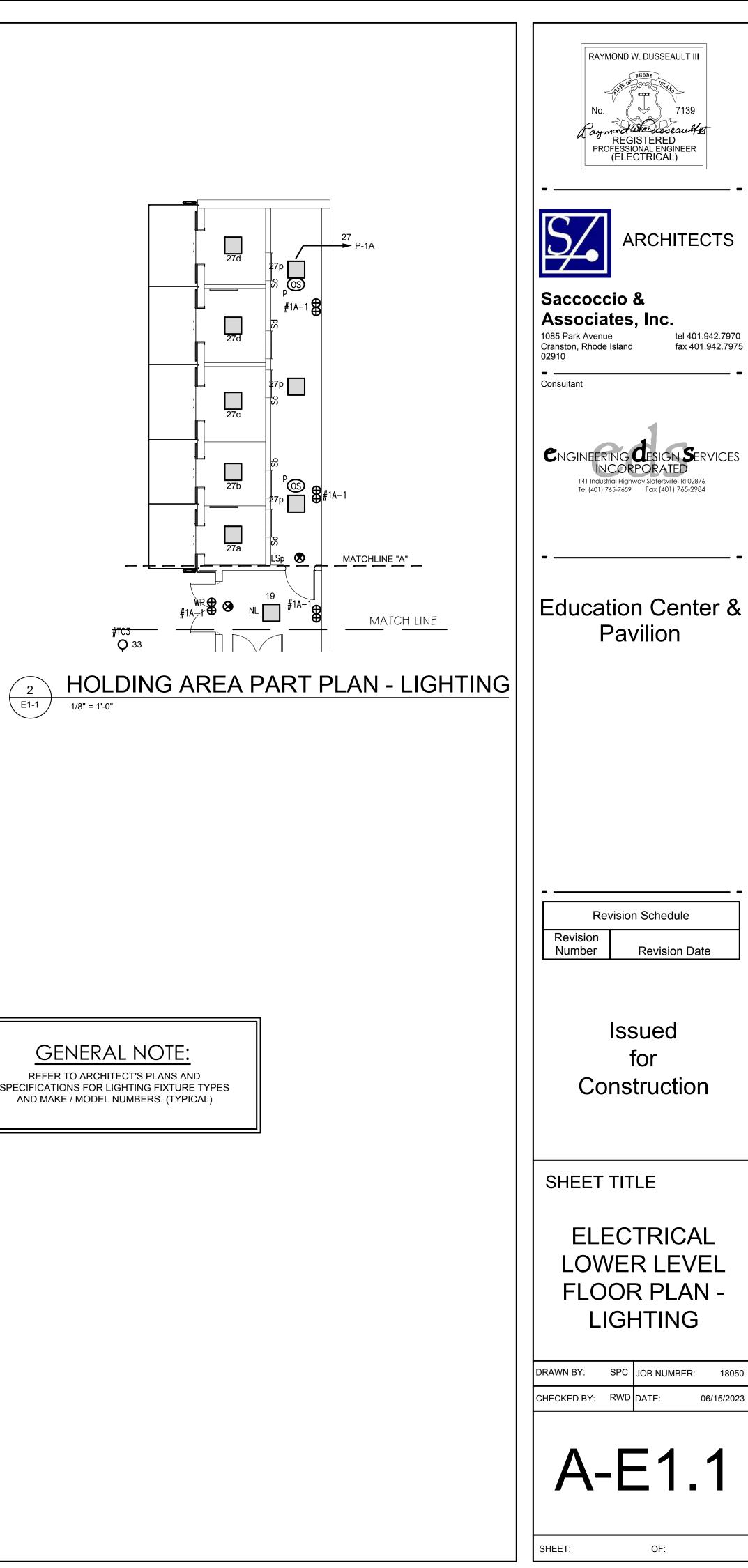
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 Education Center & Pavilion
Revision Schedule Revision Number Revision Date
Issued for Construction
SHEET TITLE
ELECTRICAL SCHEDULES & NOTES
DRAWN BY: SPC JOB NUMBER: 18050 CHECKED BY: RWD DATE: 06/15/2023
E0.5
SHEET: OF:

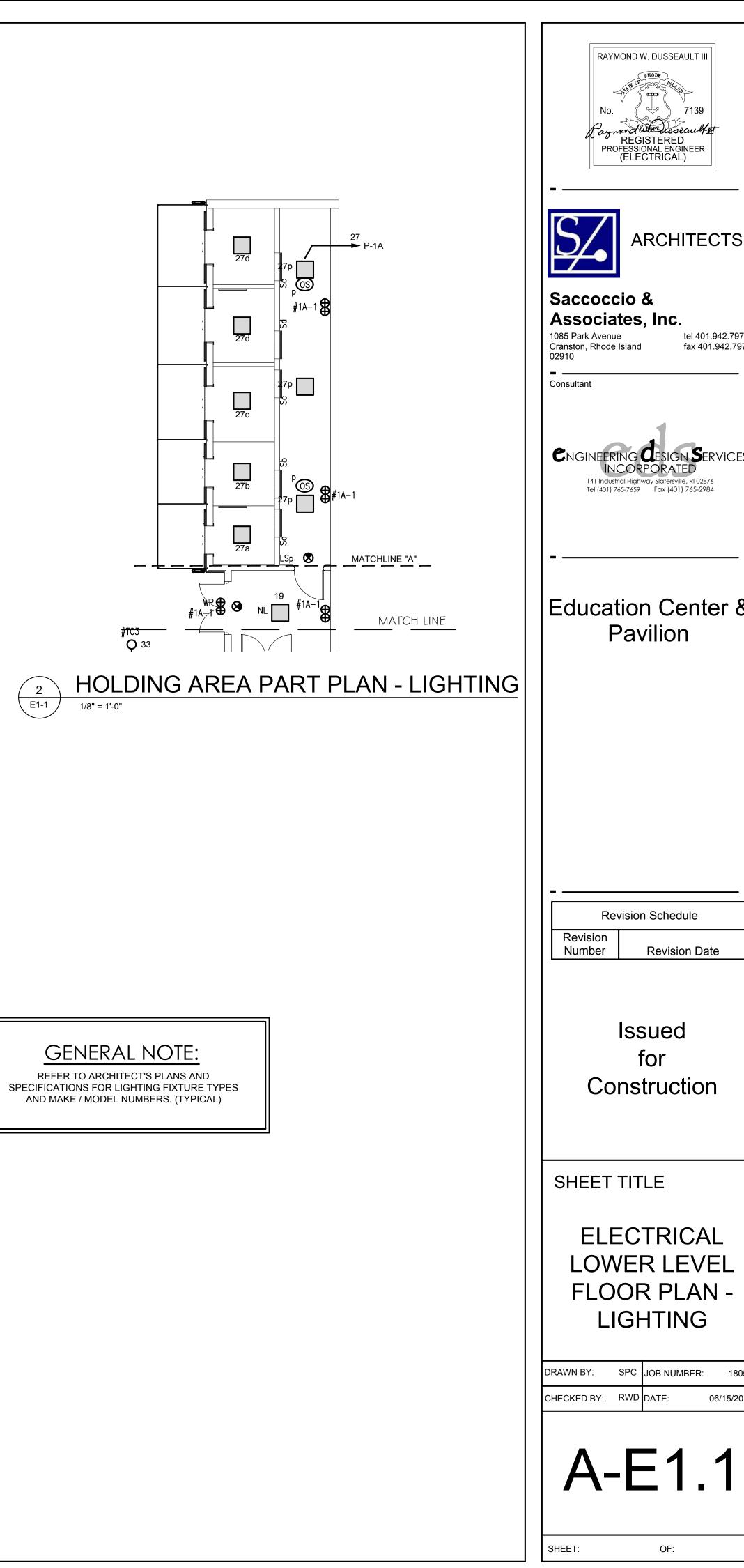




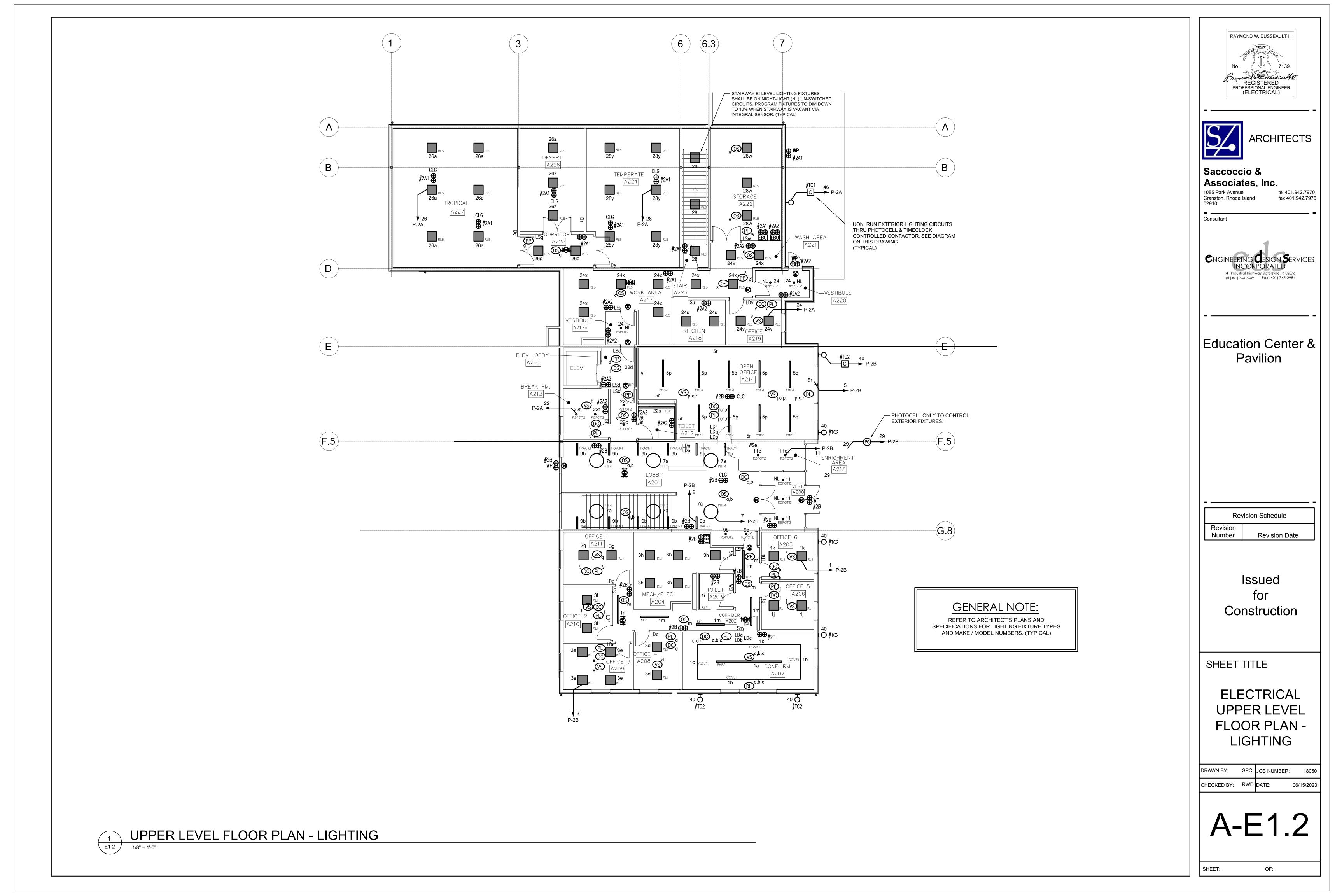


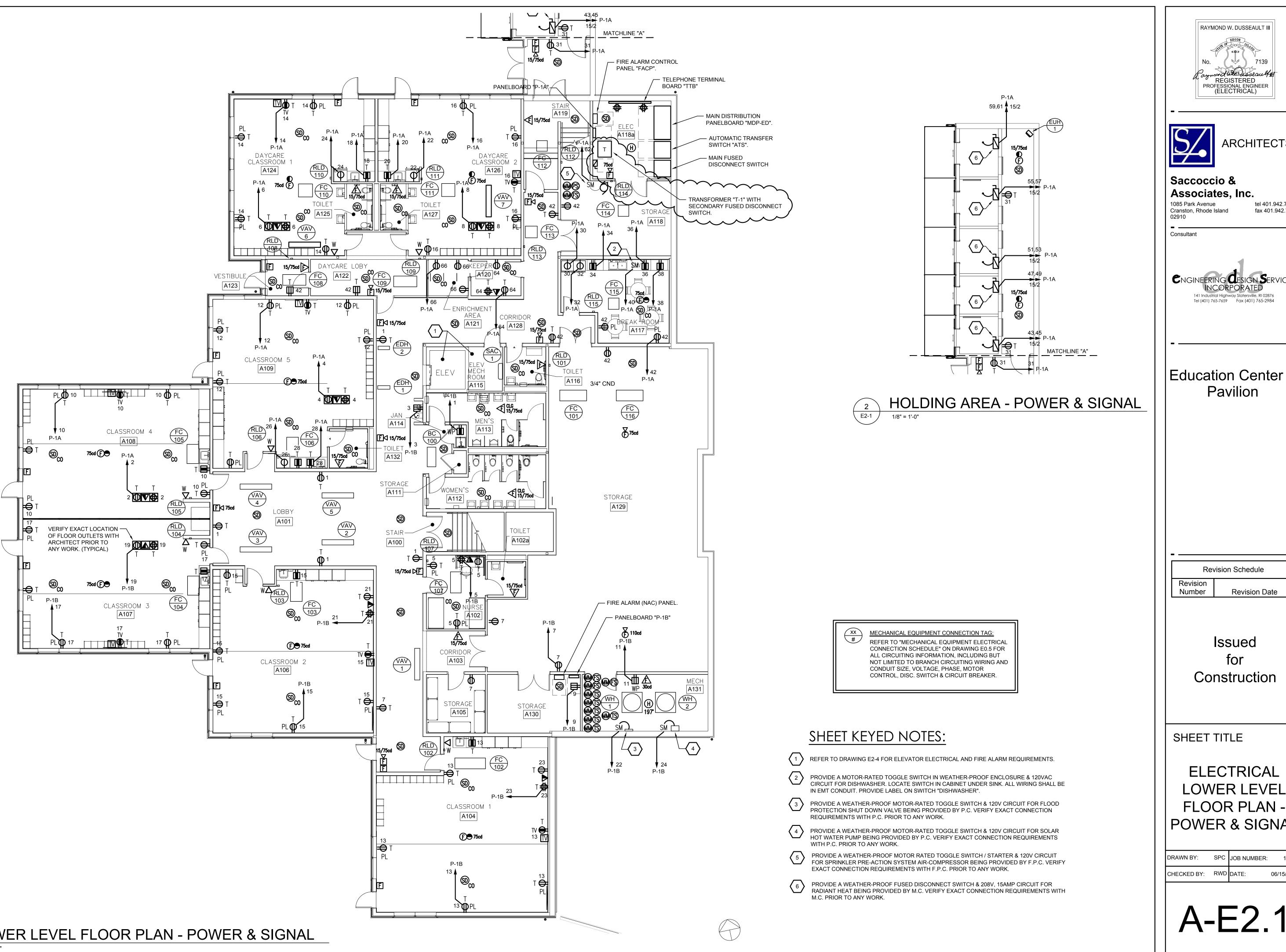
1/8" = 1'-0"



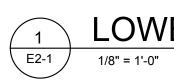


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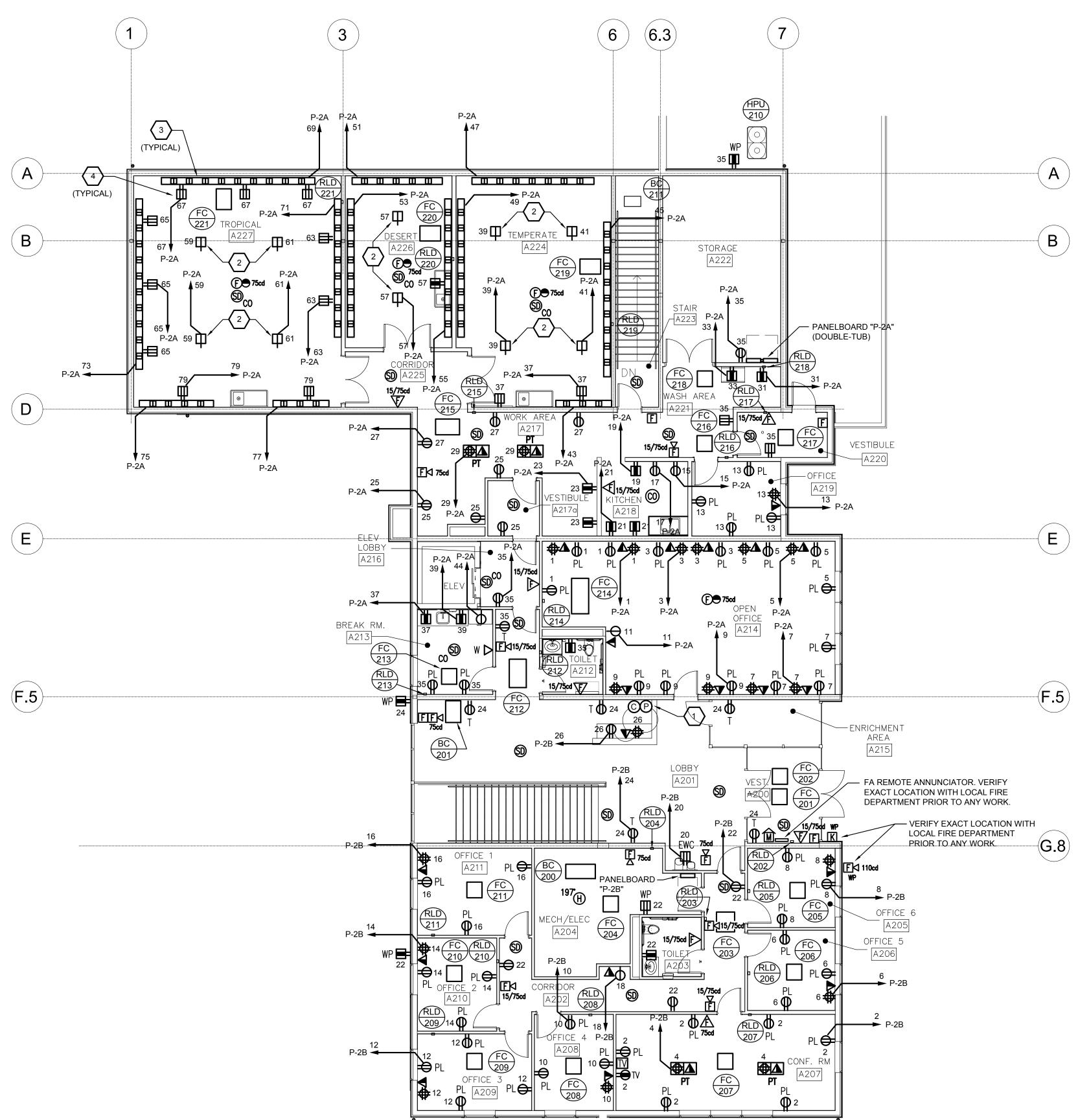
LOWER LEVEL FLOOR PLAN - POWER & SIGNAL



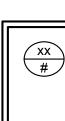
No. REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)
S ARCHITECTS
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• •
Education Center & Pavilion
Revision Schedule
Revision Number Revision Date
Issued
for
Construction
SHEET TITLE
ELECTRICAL LOWER LEVEL FLOOR PLAN - POWER & SIGNAL
RAWN BY: SPC JOB NUMBER: 18050
HECKED BY: RWD DATE: 06/15/2023

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:

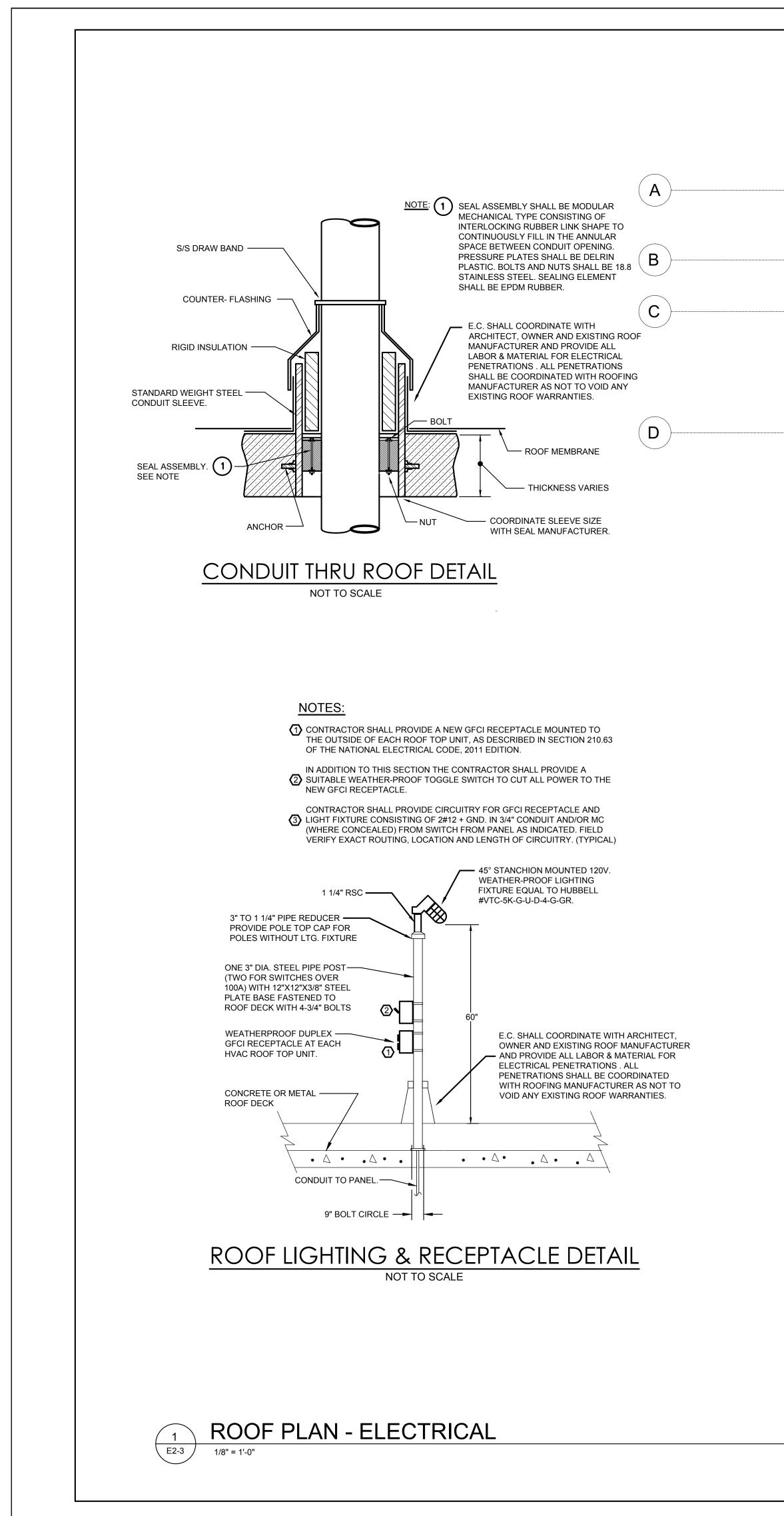
PROVIDE POWER & TELE/DATA OUTLETS IN MILLWORK FED FROM ADJACENT WALL. ALL CONDUIT & WIRING SHALL BE CONCEALED FROM PUBLIC VIEW. COORDINATE & VERIFY EXACT INSTALLATION REQUIREMENTS WITH ARCHITECT & MILLWORK CONTRACTOR PRIOR TO ANY WORK. (TYPICAL)

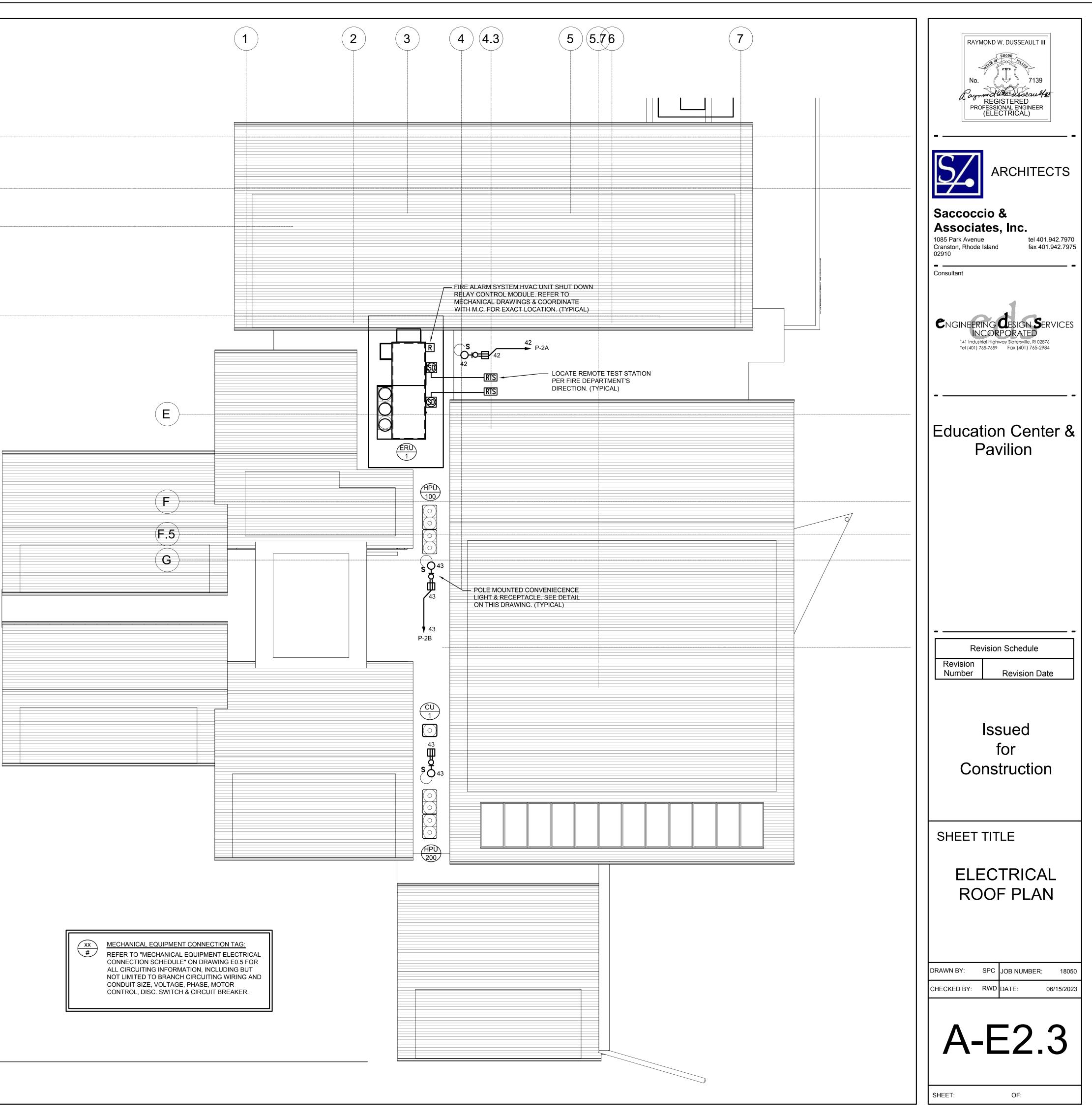
PROVIDE A GFCI 125 VOLT 20A GROUNDING SLOT RECEPTACLE ON THE CEILING FOR A PULL DOWN, COILING CORD & PLUG SET. COORDINATE & VERIFY EXACT INSTALLATION REQUIREMENTS WITH ARCHITECT & LOCATIONS WITH THE OWNER PRIOR TO ANY WORK. (TYPICAL)  $\langle 2 \rangle$ 

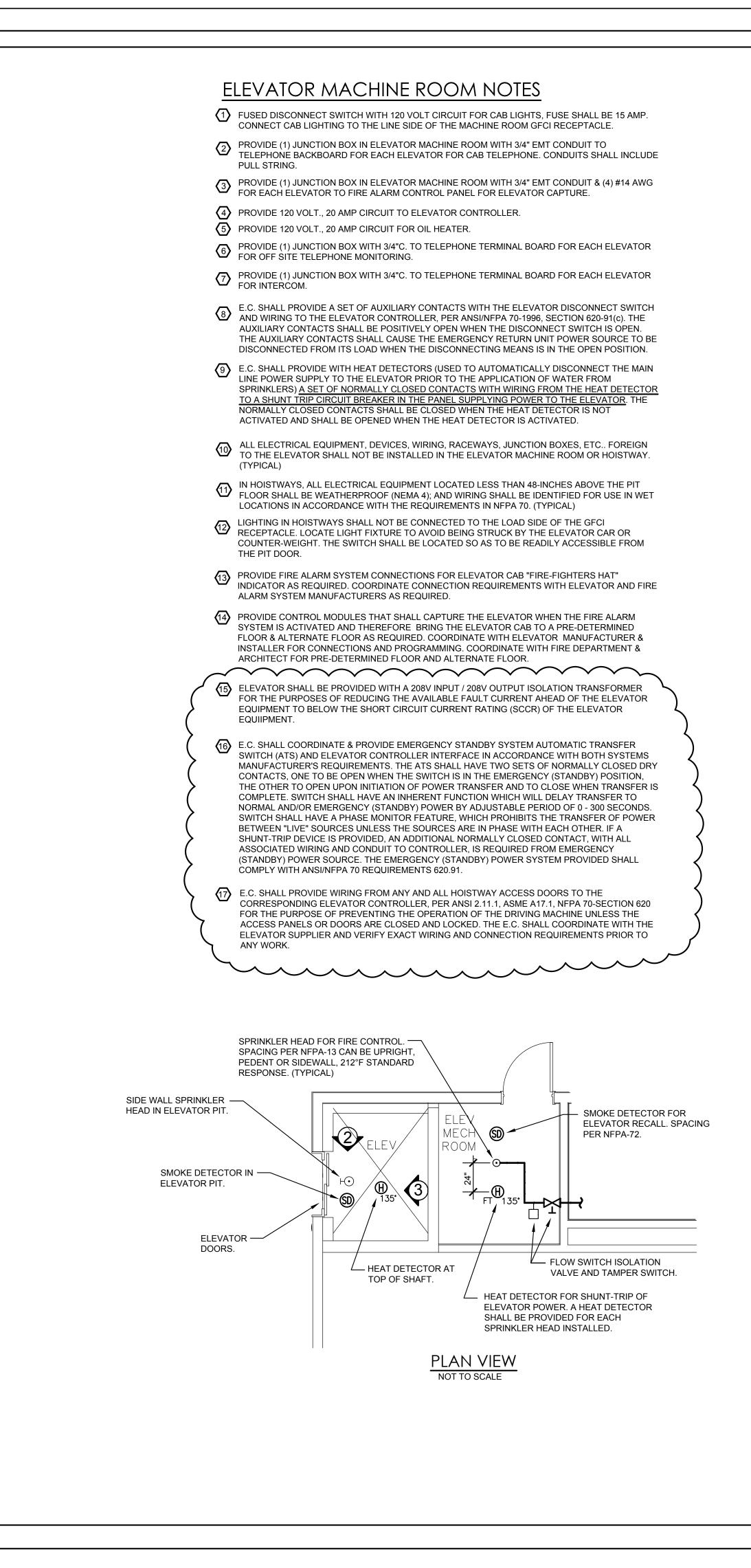
 $\langle 3 \rangle$ PROVIDE A SURFACE MOUNTED RACEWAY WITH GFCI 125 VOLT 20A GROUNDING SLOT RECEPTACLES 2'-0" ON CENTER HIGH UP ON WALL. COORDINATE & VERIFY EXACT INSTALLATION REQUIREMENTS WITH ARCHITECT & LOCATIONS WITH THE OWNER PRIOR TO ANY WORK. (TYPICAL)

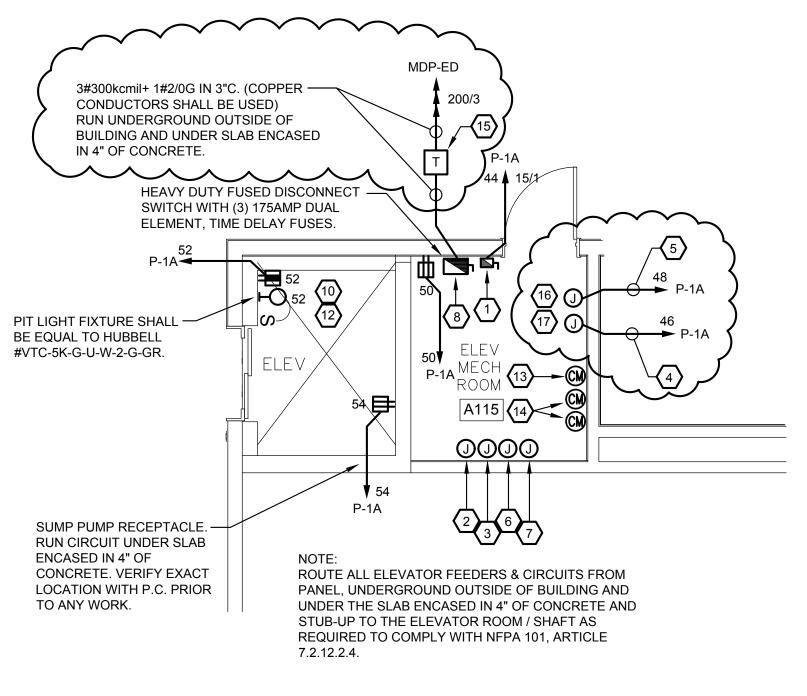
GFCI RECEPTACLES SHOWN OUTSIDE OF RACEWAY ARE 18" AFF IN WALL. COORDINATE & VERIFY EXACT LOCATIONS WITH THE OWNER PRIOR TO ANY WORK. (TYPICAL)

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Revision Schedule Revision Number Revision Date
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SHEET TITLE
ELECTRICAL UPPER LEVEL FLOOR PLAN - POWER & SIGNAL
DRAWN BY: SPC JOB NUMBER: 18050 CHECKED BY: RWD DATE: 06/15/2023
A-E2.2
SHEET: OF:









PARTIAL PLAN: ELEVATOR ELECTRICAL SCALE: 1/4" = 1'-0"

**ELEVATOR/FIRE ALARM SEQUENCE OF OPERATION** 

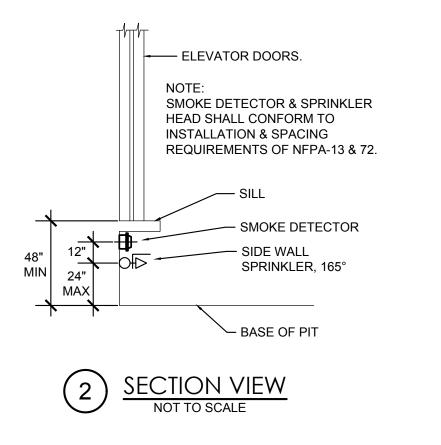
THE FLOW-SWITCH ISOLATION VALVE, SMOKE DETECTOR AND HEAT DETECTOR ASSOCIATED WITH THE ELEVATOR MACHINE ROOM SHALL BE WIRED AS REQUIRED PER THE FIRE ALARM MANUFACTURERS RECOMMENDATIONS TO HAVE THE FOLLOWING SEQUENCE OF OPERATION:

- 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:

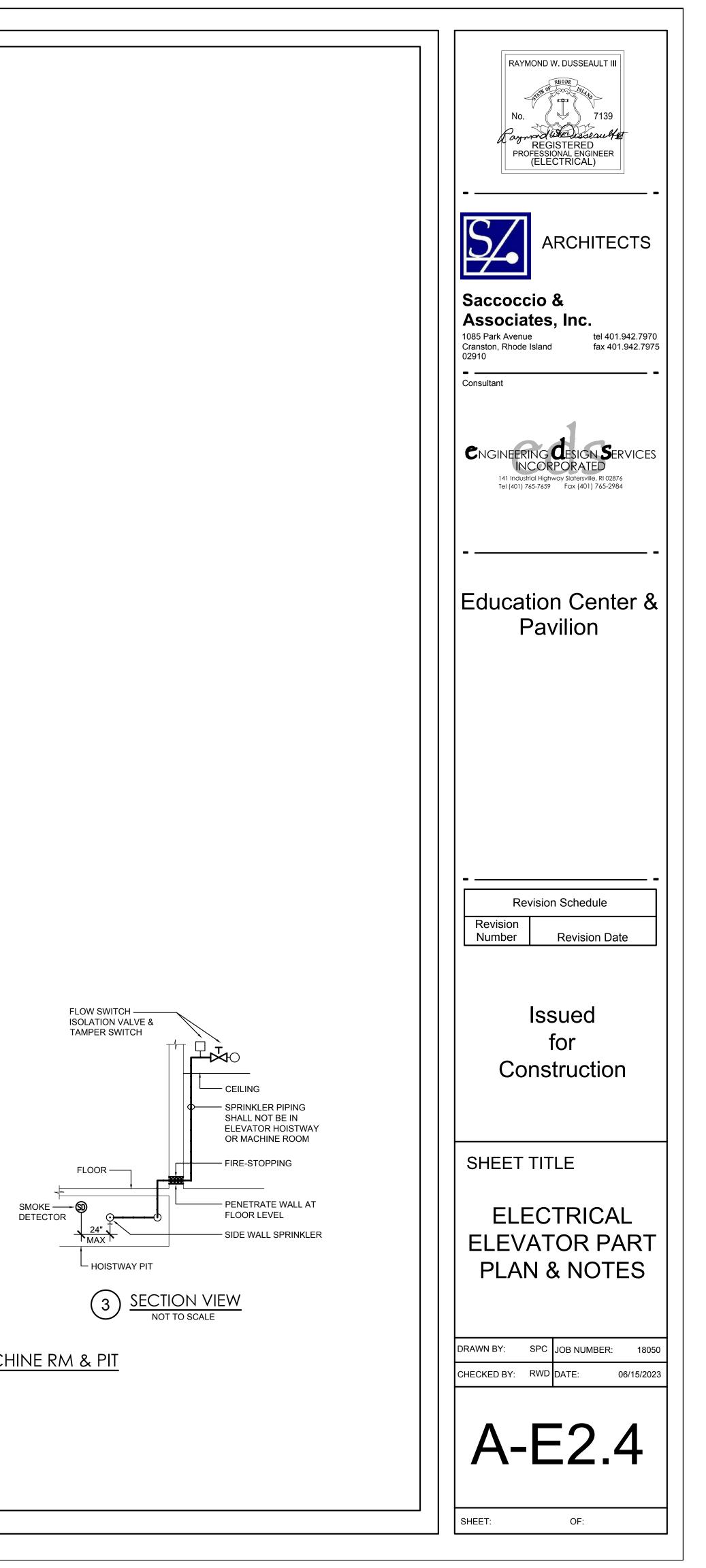
a) THE REQUIREMENTS OF NOTE 1 ABOVE.

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.



TYPICAL ELEVATOR MACHINE RM & PIT



# DIMMING SYSTEM SPECIFICATIONS:

General:

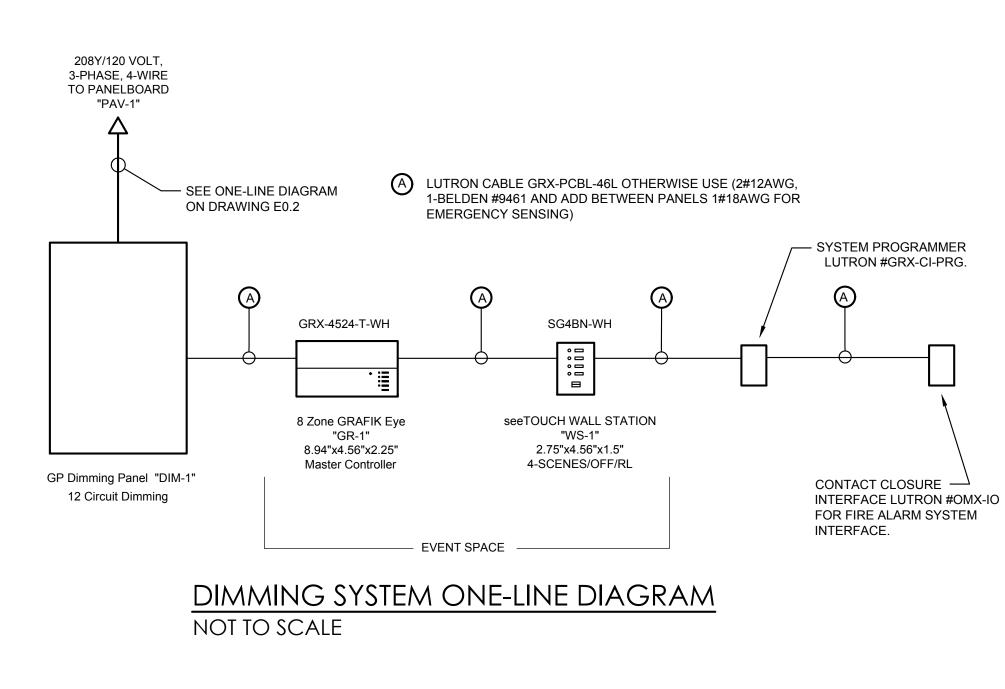
- 1. ALL INFORMATION INDICATED IS BASED ON LUTRON. EQUAL MANUFACTURERS ARE ACCEPTABLE 2. THE DIMMING SYSTEM SHALL BE PROVIDED WITH FACTORY COMMISSIONING AND PROGRAMMING.
- THE MANUFACTURUER SHALL PROVIDE A COMPLETE SYSTEM FUNCTION TEST ON THE INSTALLED SYSTEM AND A SYSTEM OPERATION AND MAINTENANCE INSTRUCTION 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 MANUFACTURERS'S RECOMMENDATIONS. (TYPICAL)
- 6. GP DIMMING PANEL SHALL BE MOUNTED SO THAT LINE (MAINS) 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:

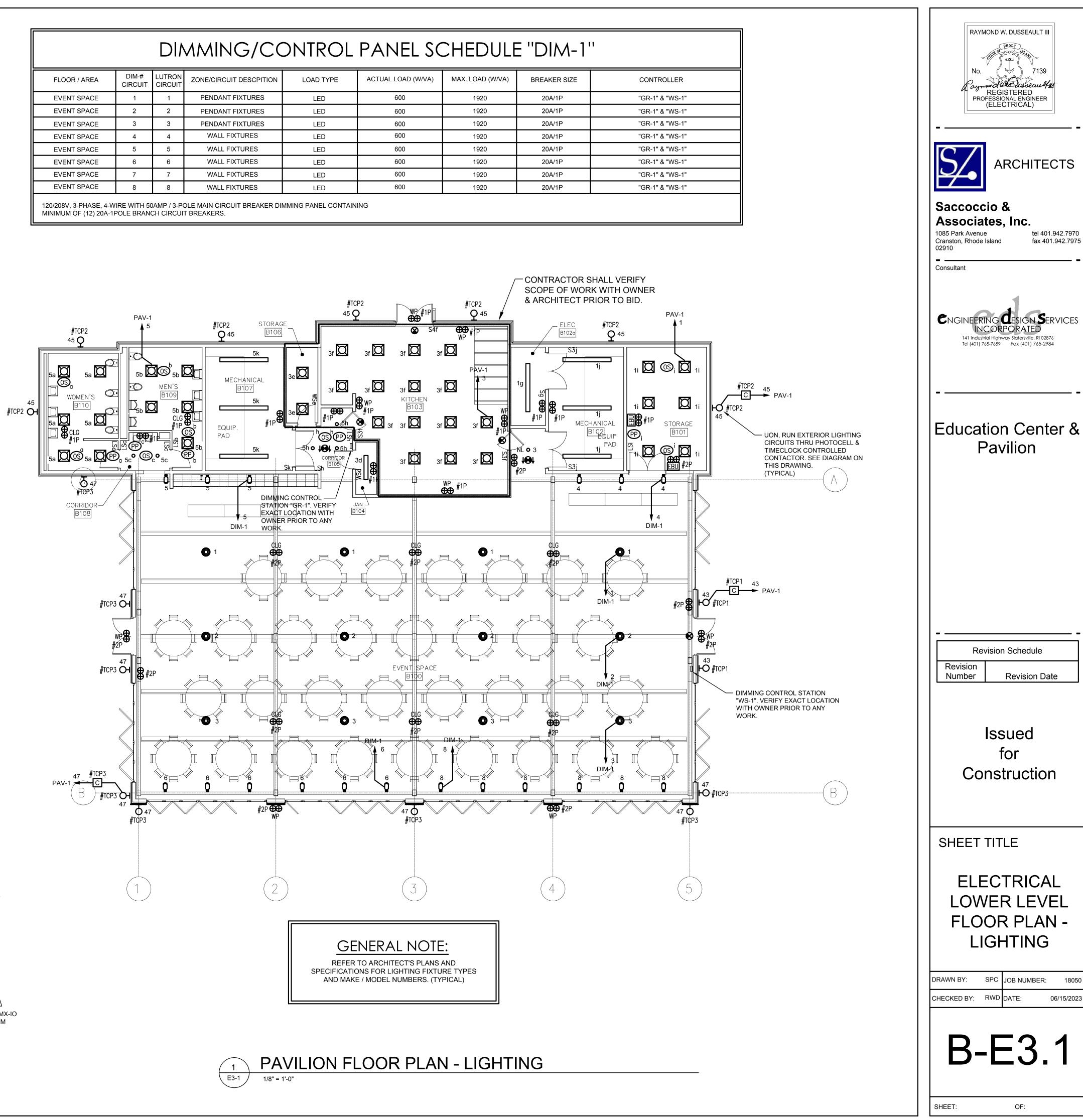
- 3. INTERNAL WIRING OF DIMMING PANELS BY THE MANUFACTURER. E.C. SHALL WIRE ALL LINE FEEDS, LOAD, AND CONTROL WIRING AS REQUIRED. LOW VOLTAGE CLASS 2 (PELV) WIRING SHALL CONNECT DIMMING PANELS TO OTHER COMPONENTS. COORDINATE WITH MANUFACTURER FOR ALL EXACT WIRING REQUIREMENTS. (TYPICAL)
- 4. PANELS SHALL 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.

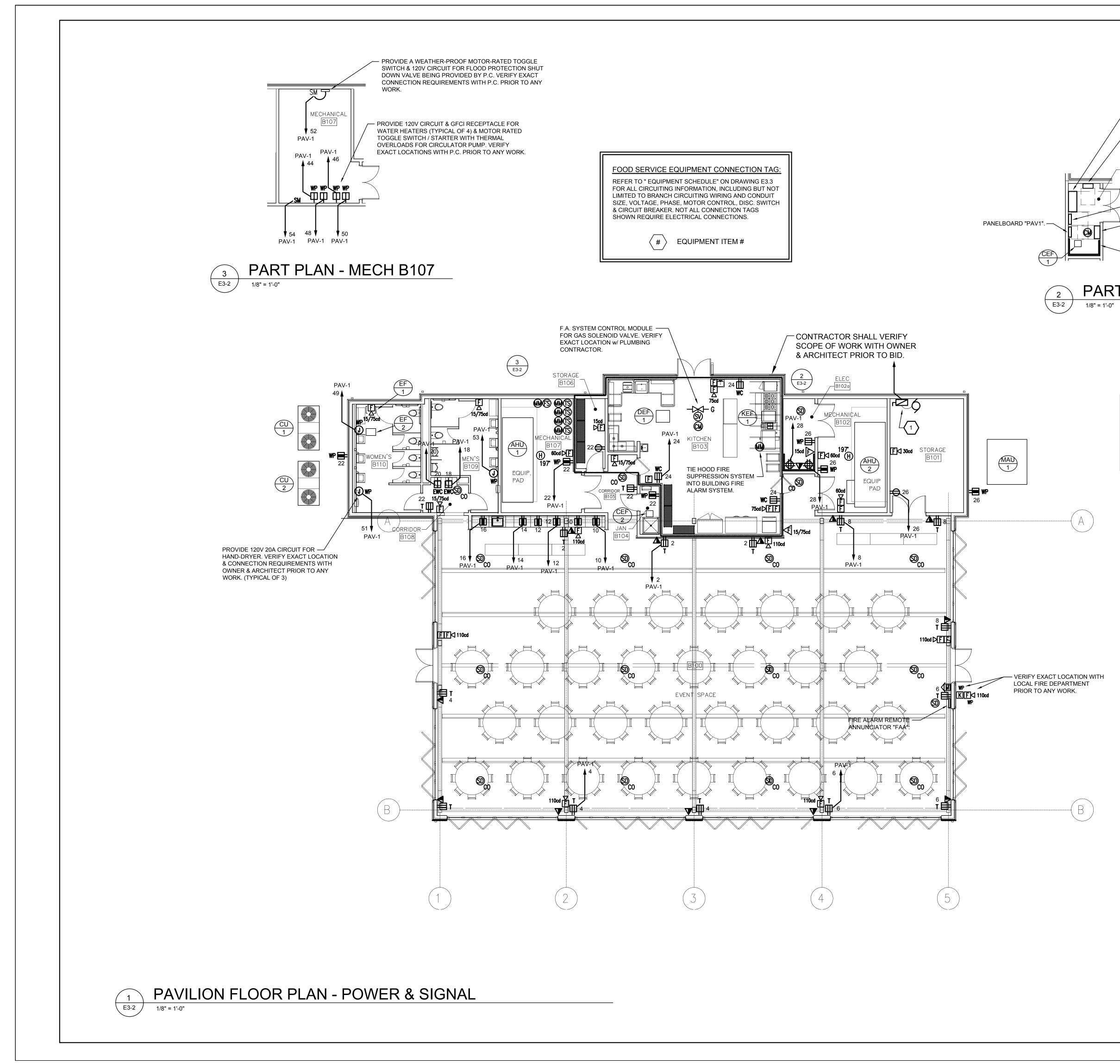
Control Units:

- 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 SCENCES SHALL BE ACCOMPLISHED WITHOUT THE USE OF AN ENTER
- OR STORE BUTTON.
- 13. seeTOUCH 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/CONTROL PANEL SCHEDULE "DIM-1"							
FLOOR / AREA	DIM-# CIRCUIT	LUTRON CIRCUIT	ZONE/CIRCUIT DESCPITION	LOAD TYPE	ACTUAL LOAD (W/VA)	MAX. LOAD (W/VA)	BREAKER SIZE
EVENT SPACE	1	1	PENDANT FIXTURES	LED	600	1920	20A/1P
EVENT SPACE	2	2	PENDANT FIXTURES	LED	600	1920	20A/1P
EVENT SPACE	3	3	PENDANT FIXTURES	LED	600	1920	20A/1P
EVENT SPACE	4	4	WALL FIXTURES	LED	600	1920	20A/1P
EVENT SPACE	5	5	WALL FIXTURES	LED	600	1920	20A/1P
EVENT SPACE	6	6	WALL FIXTURES	LED	600	1920	20A/1P
EVENT SPACE	7	7	WALL FIXTURES	LED	600	1920	20A/1P
EVENT SPACE	8	8	WALL FIXTURES	LED	600	1920	20A/1P





MAIN DISTRIBUTION PANELBOARD "MOP-PAV". FIRE ALARM CONTROL PANEL "FACP". VERIFY EXACT LOCATION WITH OWNER & ARCHITECT PRIOR TO ANY WORK. ELEC B1020 PANELBOARD "PAV2". DIMMING PANEL "DIM-1". CONNECT F.A. CONTROL MODULE TO BRING ALL LIGHTS ON TO FULL BRIGHTNESS WHEN FA SYSTEM GOES INTO ALARM. TELEPHONE TERMINAL BOARD "TTB". VERIFY EXACT LOCATION WITH OWNER & ARCHITECT PRIOR TO ANY WORK. TPLAN - ELEC B102a	<image/> <image/> <image/> <image/> <image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
XX       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.	 Education Center & Pavilion
	Revision Schedule         Revision         Number       Revision Date         Issued         for         Construction
	SHEET TITLE         ELECTRICAL         LOWER LEVEL         FLOOR PLAN -         POWER &         SIGNAL         DRAWN BY:       SPC         JOB NUMBER:       18050         CHECKED BY:       RWD         DATE:       06/15/2023
	B-E3.2 Sheet: OF:

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"=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.

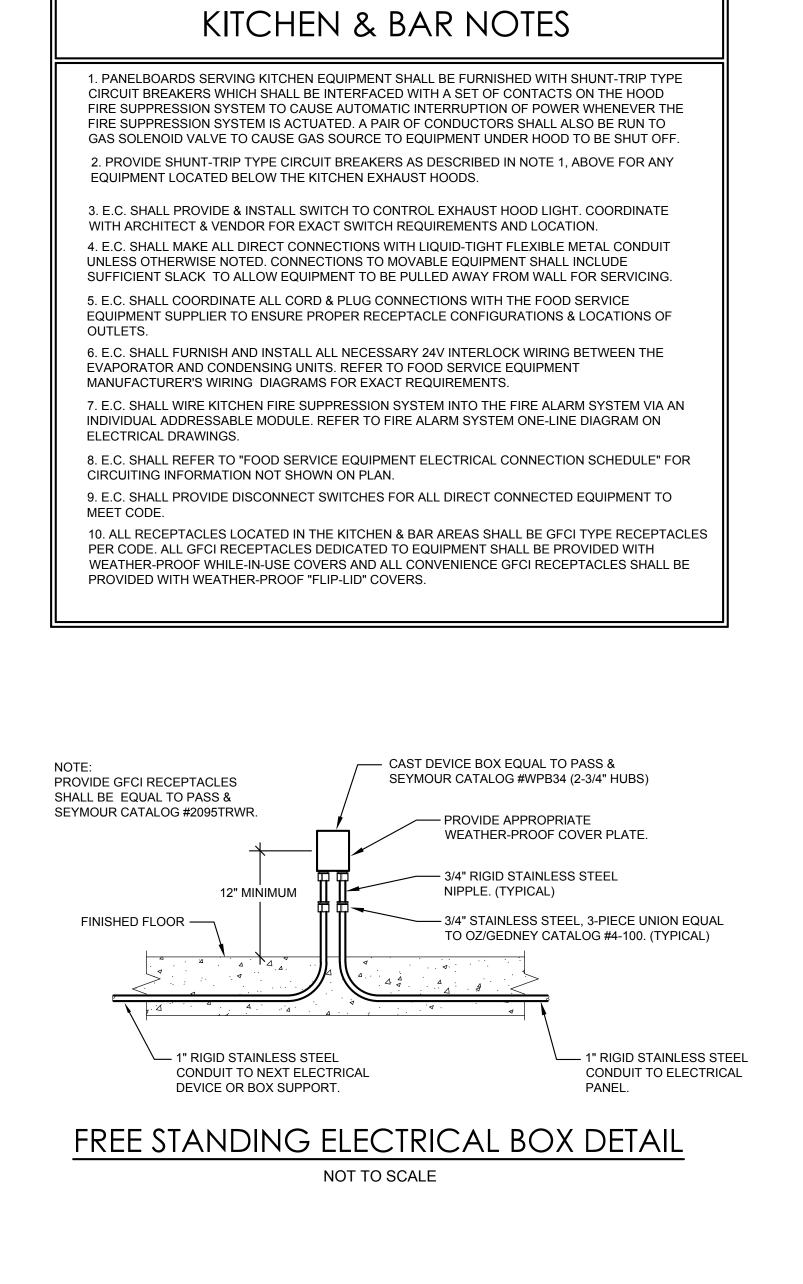
Conduit, junction boxes, outlets, disconnects, and connecting wiring shall be provided and installed by the Electrical Sub-Contractor. Interwiring of refrigeration components and remote controls such as found on a garbage disposer shall be installed by the Electrical Sub-Contractor.

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.

ITEM	QTY
	1
1	1
	1
	1
2	1
9	1
10	1
12	1
13	1
14	1
18	1
EH1	1
	1
ELECTF FOR A DISCRE	DODSER RICAL C LL FOO PANCIE SENTAT ETION



DI	DESCRIPTION	ELECTRICAL CHARACTERISTICS						CIRCUIT BREAKER		
	DESCRIPTION	VOLTAGE / PHASE	AMPS	HP	KW	DIRECT	PLUG	CIRCUIT	(HACR TYPE)	FEEDER & C
	CONVECTION OVEN, GAS	120 / 1	8	-	-	-	Х	PAV-1 / 7	15/1 (S.T.)	2#12 + 1#12G
	CONVECTION OVEN, GAS	120 / 1	8	-	-	-	Х	PAV-1 / 9	15/1 (S.T.)	2#12 + 1#12G
	CONVECTION OVEN, GAS	120 / 1	8	-	-	-	Х	PAV-1 / 11	15/1 (S.T.)	2#12 + 1#12G
	CONVECTION OVEN, GAS	120 / 1	8	-	-	-	Х	PAV-1 / 13	15/1 (S.T.)	2#12 + 1#12G
	FRYER, DEEP FAT, GAS	120 / 1	8	-	-	Х	-	PAV-1 / 15	15/1 (S.T.)	2#12 + 1#12G
	STEAMER, CONVECTION, ELECTRIC	208 / 3	45.9	-	-	Х	-	PAV-1 / 17,19,21	60/3 (S.T.)	3#4 + 1#8G IN
	WAREWASHER, DOOR TYPE, HIGH TEMP	208 / 3	40	-	-	Х	-	PAV-1 / 31,33,35	50/3	3#6 + 1#8G IN
	REFRIGERATOR, ROLL-IN	120 / 1	11.8	-	-	-	Х	PAV-1 / 23	15/1	2#12 + 1#12G
	REFRIGERATOR, REACH-IN	120 / 1	5.7	-	-	-	Х	PAV-1 / 25	15/1	2#12 + 1#12G
	FREEZER, REACH-IN	120 / 1	9.6	-	-	-	Х	PAV-1 / 27	15/1	2#12 + 1#12G
	ICE MAKER W/BIN	120 / 1	12.8	-	-	-	Х	PAV-1 / 29	15/1	2#12 + 1#12G
	HOOD, EXHAUST	120 / 1	-	-	-	Х	-	PAV-1 / 37	20/1	2#12 + 1#12G
	FIRE SUPPRESSION SYSTEM FOR ITEM #EH1	120 / 1	-	-	-	Х	-	PAV-1 / 39	20/1	2#12 + 1#12G

OF THE CONSTRUCTION. ABBREVIATION (S.T.) INDICATES SHUNT-TRIP TYPE CIRCUIT BREAKER.

