EquipmentShare

LAKE CITY, FL

US-90 & PRICE CREEK ROAD LAKE CITY, FLORIDA

11.06.2023

SHEET INDEX

VICINITY MAP

GENERAL CONSTRUCTION REQUIREMENTS

1. ALL WORK SHALL BE DONE IN A SAFE AND PROFESSIONAL MANNER AND IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL GOVERNING CODES, REGULATIONS, AND ORDINANCES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL THOROUGHLY EXAMINE ALL FACTORS REASONABLY AVAILABLE TO HIM INCLUDING, BUT NOT LIMITED TO, THE PLANS, SPECIFICATIONS, SITE BOUNDARY, TOPOGRAPHY, SITE CONDITIONS, SITE HISTORY, LOCAL INFORMATION, AND SEASONAL WEATHER CONDITIONS IN THE PREPARATION OF HIS BID. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ACCEPTANCE OF THE SITE AND PREPARATION OF THE SITE TO THE PROPER GRADE AND COMPACTION REQUIREMENTS AS INDICATED BY THE PLANS AND SPECIFICATIONS. ANY CONSTRUCTION PERFORMED BY THE CONTRACTOR ON THE PROJECT WILL CONSTITUTE ACCEPTANCE OF THE SITE. ANY CONSTRUCTION PERFORMED BY THE CONTRACTOR ON A BUILDING PAD PREPARED BY OTHERS WILL CONSTITUTE ACCEPTANCE OF THE PAD.
3. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED AREA. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THEM OF ANY RESPONSIBILITY OF PERFORMING THEIR WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.
4. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE AND CLEAR OF ALL DEBRIS. NO FLAMMABLE MATERIALS/LIQUIDS MAY BE STORED IN THE BUILDING DURING CONSTRUCTION.
5. BUILDING AND SITE SECURITY SHALL BE MAINTAINED DURING CONSTRUCTION. SECURITY WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
6. DURING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ANY REQUIRED SAFETY BARRIERS OR BARRICADES. PROVIDE BARRICADES SO AS TO PREVENT PUBLIC INTRUSION INTO CONSTRUCTION AREAS.
7. THE CONTRACTOR SHALL SUPPLY AND INSTALL MISCELLANEOUS BLOCKING, FURRING, NAILERS, GROUNDS, FRAMING AND SHEATHING AS DETAILED ON THE DRAWINGS, AND AS REQUIRED FOR PROPER INSTALLATION OF EQUIPMENT AND ACCESSORIES SUCH AS THE FOLLOWING: BASE CABINETS, TOILET PARTITIONS, MIRRORS, TOILETS ACCESSORIES, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. COORDINATE TO ALLOW PROPER ATTACHMENT OF WORK OF EACH TRADE. CAUTION: USE FIRE-TREATED WOOD IN AREAS REQUIRING RATED OR NONCOMBUSTIBLE CONSTRUCTION, USE TREATED WOOD IN AREAS IN CONTACT WITH MASONRY, CONCRETE, OR WHERE SUBJECT TO MOISTURE.
8. ALL MATERIALS ARE TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND IN A MANNER SUCH THAT ALL MANUFACTURERS WARRANTIES WILL BE HONORED.
9. REMOVED. (PR4)
10. FIRE EXTINGUISHERS SHALL BE FURNISHED BY EQUIPMENTSHARE AND INSTALLED BY CONTRACTOR IN ACCORDANCE WITH NFPA 10. (1) 2A-10B/C MINIMUM RATED FIRE EXTINGUISHER SHALL BE PROVIDED FOR EACH 3,000 S.F. OF FLOOR AREA, LOCATED SUCH THAT TRAVEL DISTANCE TO CLOSEST UNIT IS NO MORE THAN 75 FEET. CLASS K EXTINGUISHERS SHALL BE PROVIDED WITHIN 30 FT OF ALL COOKING AREAS. FIRE EXTINGUISHER LOCATIONS SHALL BE APPROVED BY THE OFFICE OF THE FIRE MARSHAL PRIOR TO OCCUPANCY. FIRE EXTINGUISHERS ARE TO BE MOUNTED SUCH THAT THE BOTTOM OF THE UNIT IS 26" AFF MAXIMUM. COORDINATE LOCATIONS WITH EQUIPMENTSHARE AND OBTAIN AUTHORIZATION PRIOR TO INSTALLATION.

GENERAL ABBREVIATIONS

ABBR	DEFINITION	ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	FTG	FOOTING	PL	PLATE
ACI	AMERICAN CONCRETE INSTITUTE	FV	FIELD VERIFY	PLAM	PLASTIC LAMINATE
ACRYL	ACRYLIC	GA	GAUGE	PLAST	PLASTIC
ADA	AMERICANS WITH DISABILITIES ACT	GC	GENERAL CONTRACTOR	PLF	POUNDS PER LINEAR FOOT
ADJ	ADJACENT	GM	GENERAL MERCHANDISE	PMEJ	PREMOLDED EXPANSION JOINT
AFF	ABOVE FINISHED FLOOR	GR	GROCERY	PSF	POUNDS PER SQUARE FOOT
AFG	ABOVE FINISHED GRADE	GYP	GYPSUM BOARD	PSI	POUNDS PER SQUARE INCH
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GWB	GYPSUM WALL BOARD	PVC	POLYVINYL CHLORIDE
ARCH	ARCHITECTURAL	H	HEIGHT	QTY	QUANTITY
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	HDTV	HIGH DEFINITION TELEVISION	RC	REFRIGERATION CONTRACTOR
AWS	AMERICAN WELDING SOCIETY	HORIZ	HORIZONTAL	REF	REFER TO
BFF	BELOW FINISHED FLOOR	HSA	HEADED STUD ANCHOR	REINF	REINFORCING
BL	BLOCK LINTEL	HSS	HOLLOW STRUCTURAL SECTION	REQD	REQUIRED
BO	BOTTOM OF	INFO	INFORMATION	REV	REVERSE
BOS	BOTTOM OF STEEL	ISO	ISOLATION	RO	ROUGH OPENING
BRG	BEARING	JBE	JOIST BEARING ELEVATION	RTU	ROOF TOP UNIT
CJ	CONTROL JOINT	JST	JOIST	RXPFC	PHARMACY PAINT FIX CLEAN
CL	CENTERLINE	JT	JOINT	SCB	SANITARY COVE BASE
CLR	CLEAR	KSI	KIPS PER SQUARE INCH	SCHED	SCHEDULE
CMU	CONCRETE MASONRY UNIT	L	LENGTH	SDI	STEEL DECK INSTITUTE
COL	COLUMN	LB	POUNDS	SIM	SIMILAR
CONC	CONCRETE	LLH	LONG LEG HORIZONTAL	SJI	STEEL JOIST INSTITUTE
CONST	CONSTRUCTION	LLV	LONG LEG VERTICAL	SPECS	SPECIFICATIONS
CONT	CONTINUOUS	LONG	LONGITUDINAL	SS	STAINLESS STEEL
CU	CONDENSING UNIT	MAX	MAXIMUM	STD	STANDARD
DIA	DIAMETER	MAU	MECHANICAL AIR UNIT	STRUC	STRUCTURAL
DSD	DIRECTS SHIPPING DELIVERY	ME	MASONRY ELEVATION	T&B	TOP AND BOTTOM
EAS	ELECTRONIC ARTICLE SURVEILLANCE	MECH	MECHANICAL	TEMP	TEMPERED
EDC	ELECTRICAL DISTRIBUTION CENTER	MFR	MANUFACTURER	THK	THICKNESS
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MIN	MINIMUM	TO	TOP OF
EF	EXHAUST FAN	MISC	MISCELLANEOUS	TOC	TOP OF CONCRETE
EJ	EXPANSION JOINT	MO	MASONRY OPENING	TOF	TOP OF FOOTING
EL	ELEVATION	MTL	METAL	TOGB	TOP OF GRADE BEAM
ELEC	ELECTRICAL	NIC	NOT IN CONTRACT	TOM	TOP OF MASONRY
EQ	EQUAL	NO	NUMBER	TOP	TOP OF PURLIN
ETR	EXISTING TO REMAIN	NS	NEAR SIDE	TOS	TOP OF STEEL
EW	EACH WAY	NTS	NOT TO SCALE	TRANS	TRANSVERSE
EWC	ELECTRIC WATER COOLER	OC	ON CENTER	TYP	TYPICAL
FDN	FOUNDATION	OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
FF	FINISHED FLOOR	OH	OPPOSITE HAND	VERT	VERTICAL
FRP	FIBER REINFORCED PLASTIC	PAF	POWDER ACTUATED FASTENER	W	WIDTH
FS	FAR SIDE	PCF	POUNDS PER CUBIC FOOT		

SYMBOLS LEGEND

ROOM NAME AND NUMBER	DOOR NUMBER	WINDOW TYPE	HEIGHT ELEVATION INDICATOR
OFFICE 101	101	A	100'-0" FF EL
GRID NUMBER	**PAINT COLOR INDICATOR**	**ELEVATION**	**PLAN ELEVATION INDICATOR**
1	MP-2	1 A2.0	100.00'
PARTITION TYPE	**ENLARGED PLAN/DETAIL**	**SECTION**	**EQUIPMENT NUMBER**
A6	1 A4.1	1 A4.0	01

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APPLICABLE CODES

JURISDICTION

Agency		Location
CODE ENFORCEMENT	City of Lake City	City of Lake City
ZONING	City of Lake City	City of Lake City

CODE	TITLE	EDITION	AMENDMENTS	NOTES
BUILDING	FL Building Code 7th Ed.	2023	-	
FIRE	FL Fire Code 7th Ed.	2020	-	-
ACCESSIBILITY	FL Building Code 7th Ed.	2020	-	-
MECHANICAL	FL Mech. Code 7th Ed.	2020	-	
ELECTRICAL	NEC	2020	-	
PLUMBING	FL Plumbing Code 7th Ed.	2020	-	
ENERGY	FL Energy Code	2020	-	
LIFE SAFETY	NFPA 101	2021	-	

CONSTRUCTION TYPE AND LIMITATIONS

CONSTRUCTION TYPE (Chapter 6):	IIB	PRIMARY OCCUPANCY:	S1 - STORAGE
AUTOMATIC FIRE SPRINKLER SYSTEM	NO	BUILDING AREA LIMITATIONS	AREA (SF)
ALLOWABLE HEIGHT	3	ALLOWABLE AREA	17,500 (SF)
ALLOWABLE HEIGHT INCREASE (W/SPRINKLERS)	1	UNLIMITED AREA BUILDING? (Section 507)	NO
TOTAL ALLOWABLE HEIGHT	4	**TOTAL ALLOWABLE AREA**	17,500 (SF)
ACTUAL HEIGHT	1	**ACTUAL BUILDING AREA**	10488 (SF)

FIRE RESISTANCE RATINGS

BUILDING COMPONENT	RATINGS (HOURS)	DESIGN NO.	NOTES
STRUCTURAL FRAME	0	-	Table 601
BEARING WALLS: EXTERIOR	0	-	Table 601
BEARING WALLS: INTERIOR	0	-	Table 601
NONBEARING WALLS: EXTERIOR	0	-	Table 601
NONBEARING WALLS: INTERIOR	0	-	Table 601
FLOOR CONSTRUCTION	0	-	Table 601
ROOF CONSTRUCTION	0	-	Table 601
CORRIDORS	0	-	Section 1018

FIRE RESISTANCE RATINGS FOR EXTERIOR WALL BASED ON SEPARATION DISTANCE (IBC Table 602)

MINIMUM FIRE RESISTANCE RATING	MINIMUM FIRE SEPARATION	ACTUAL FIRE SEPARATION
0	10' +	10' +

USE AND OCCUPANCY CLASSIFICATION

PRIMARY USE:	S1 - STORAGE	Motor Vehicle Repair Garage 311.2
ACCESSORY USES:	B - BUSINESS	Business Operation Areas - Services - Section 304.1

USE AND OCCUPANCY CLASSIFICATION AND LOAD (Chapter 3)

CLASSIFICATION (Chapter 3)	AREA (SF)	FACTOR (SF per Occupant)	LOAD (Occupants)	NOTES
S1 - STORAGE	9164 SF	300 SF	32	Shop and Other Vocational Room Areas - Table 1004.1.2
B - BUSINESS	1324 SF	150 SF	9	Business Operation Areas - Table 1004.1.2
TOTAL	10488 SF	-	41	Total Occupiable Space

EGRESS INCHES REQUIRED

CLASSIFICATION (Chapter 3)	LOAD (Occupants)	FACTOR (Inches per Occupant)	INCHES REQUIRED	NOTES
S1 - STORAGE	32	0.2	6.2	
B - BUSINESS	9	0.2	1.8	
TOTAL	41	-	8	181" PROVIDED

FLAME SPREAD CLASS (Walls and Ceilings)

EXIT PASSAGEWAYS	-	Table 803.9
CORRIDORS	-	Table 803.9
ROOMS AND ENCLOSED SPACE	-	Table 803.9

PLUMBING FIXTURE COUNTS (IPC Table 403.01)
(PLUMBING FIXTURE NOT SHOWN WILL BE PROVIDED WITH TENANT INFILL PACKAGES)

TOTAL OCCUPANTS: 41

FIXTURE HEIGHT	DETERMINING FACTOR	REQUIRED		PROVIDED	
		MALE	FEMALE	MALE	FEMALE
WATER CLOSETS	100	1	1	2	2
URINALS	50%	1	-	-	-
LAVATORIES	100	1	1	2	2
UNISEX	1 PER 6+ WC	1		1	
SERVICE SINK	1 REQUIRED	1		1	
DRINKING FOUNTAINS	1000	1		1 (MULTI LEVEL HIGH-LOW ACCESSIBLE COMBO UNIT)	

OCCUPANCY CLASSIFICATION LEGEND

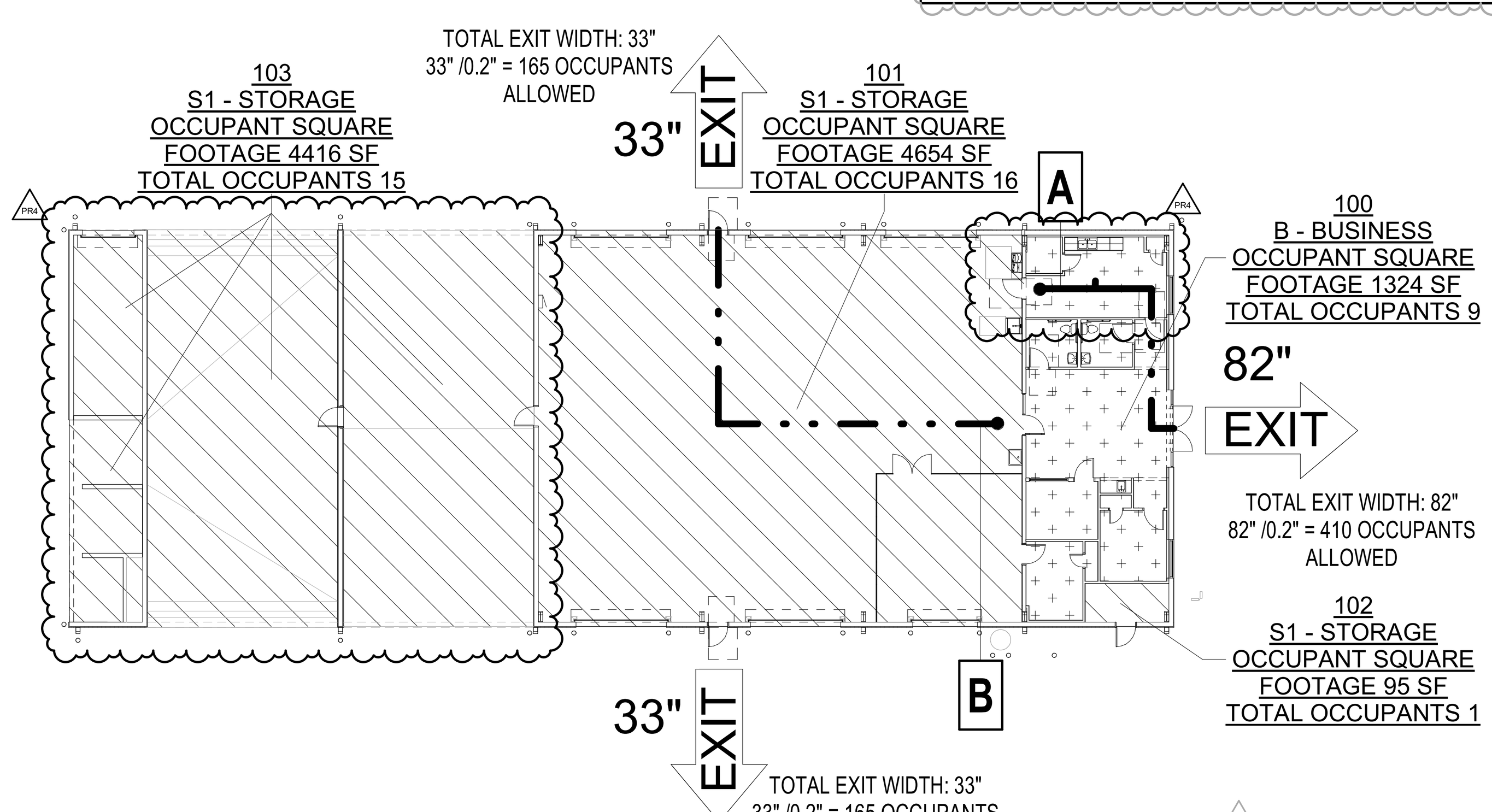
- B - BUSINESS
- S1 - STORAGE
- * FIRE EXTINGUISHERS

MEANS OF EGRESS DISTANCE

Exit Path	Exit Path Distance
A	43' - 10"
B	73' - 4"

OCCUPANCY LOAD SCHEDULE

NUMBER	NAME	AREA	FAPO	TOTAL OCCUPANCY
100	B - BUSINESS	1324 SF	150 SF	9
101	S1 - STORAGE	4654 SF	300 SF	16
102	S1 - STORAGE	95 SF	300 SF	1
103	S1 - STORAGE	4416 SF	300 SF	15
		10488 SF		41



1 LIFE SAFETY PLAN
3/64" = 1'-0"

PR1 - ADDED ATTACHED WASHBAY.
PR2 - REMOVED ATTACHED WASHBAY.
PR3 - ADDED EXTERIOR CANOPY.

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EQUIPMENTSHARE - LAKE CITY, FL
US-90 & PRICE CREEK ROAD
LAKE CITY, FLORIDA
JOB NUMBER: 2023.0377

ISSUE BLOCK

	OTP	08.11.2023
PR1	PR1	10.13.2023
PR2	PR2	11.10.2023
PR3	PR3	12.01.2023
PR4	PR4	04.25.2024
PR5	PR5	12.05.2024

CHECKED BY:	KG
DRAWN BY:	HLB / AAS
DOCUMENT DATE:	11.06.2023

Scott Broadbent
2024.12.09
15:48:53-06'00'

COVER SHEET

SHEET: CVR

THIS IS A TEMPLATE SPECIFICATION. SOME SECTIONS, OR PARTS OF SECTIONS, MAY NOT APPLY TO CERTAIN PROJECTS. REFER TO DRAWINGS FOR REQUIRED PRODUCTS.

SECTION 01000 - GENERAL REQUIREMENTS

1.1 SUMMARY OF WORK

A. THE PROJECT CONSISTS OF DEMOLITION AND CONSTRUCTION FOR THE PROJECT REPRESENTED BY THESE DOCUMENTS INCLUDING ALL SITEWORK, LANDSCAPING, PAVING, AND NEW CONSTRUCTION.
B. CONTRACTOR'S USE OF PREMISES: CONFINE OPERATIONS AT SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS, AND CONTRACT DOCUMENTS.
  1. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL HAVE LIMITED USE OF THE PREMISES FOR CONSTRUCTION OPERATIONS, INCLUDING USE OF THE SITE. THE OWNER WILL DESIGNATE AN ENTRANCE TO SITE FOR CONTRACTOR'S USE. DO NOT USE OTHER ENTRANCES.
  2. DO NOT UNREASONABLY ENCUMBER SITE WITH MATERIALS OR EQUIPMENT.
  3. DO NOT LOAD STRUCTURES OR PAVEMENTS WITH WEIGHT THAT WILL ENDANGER OR DAMAGE THEM.
  4. ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF MATERIALS AND PRODUCTS STORED ON AND OFF THE PREMISES, INCLUDING OWNER-FURNISHED ITEMS.
  5. PROTECT EXISTING FEATURES, UTILITIES, EQUIPMENT, AND IMPROVEMENTS NOT DESIGNATED FOR REMOVAL, AND RESTORE DAMAGED OR TEMPORARILY RELOCATED UTILITIES AND IMPROVEMENTS TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO SUCH DAMAGE OR TEMPORARY RELOCATION.

1.2 SITE INVESTIGATION

A. COMPARE CONDITIONS AT SITE WITH DRAWINGS AND SPECIFICATIONS FOR WORK. NOTIFY THE ARCHITECT, IN WRITING, AT OR BEFORE TIME OF SUBMITTING BID, OF ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND EXISTING CONDITIONS AT THE SITE; AND MAKE BID CONFORM TO THE INTENT OF THE CONTRACT DOCUMENTS.
B. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
C. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND CONSTRUCTION INDICATED AS EXISTING ARE NOT GUARANTEED. BEFORE BEGINNING SITEWORK, VERIFY THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND OTHER CONSTRUCTION.
D. REFERENCE DATA MADE AVAILABLE TO CONTRACTOR ARE GIVEN FOR CONTRACTOR'S INFORMATION ONLY, AND NEITHER OWNER NOR THE ARCHITECT ASSUME ANY RESPONSIBILITY FOR CONCLUSIONS CONTRACTOR MAY DRAW THEREFROM.
E. FAILURE BY CONTRACTOR TO ACQUAINT HIMSELF WITH ALL AVAILABLE INFORMATION CONCERNING THESE CONDITIONS WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR ESTIMATING COST OR DIFFICULTY OF SUCCESSFULLY PERFORMING WORK.
F. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES FOR CLARIFICATION.

1.3 REFERENCE STANDARDS

A. PERFORM WORK IN COMPLIANCE WITH ALL ACCESSIBILITY STANDARDS AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, CODE AMENDMENTS, AND ORDINANCES.
B. APPLICABLE INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED INTO CONTRACT DOCUMENTS. SUCH STANDARDS ARE PART OF THE CONTRACT DOCUMENTS BY REFERENCE. WHERE COPIES OF STANDARDS ARE NEEDED FOR PERFORMANCE OF A REQUIRED CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL OBTAIN COPIES DIRECTLY FROM THE PUBLICATION SOURCE.
C. WHERE THE SPECIFIC DATE OR ISSUE OF THE STANDARD IS NOT INCLUDED WITH THE REFERENCE TO THE STANDARD IN THE CONTRACT DOCUMENTS, THE EDITION AND AMENDMENTS ADOPTED, PUBLISHED, AND AVAILABLE TO THE PUBLIC ON THE DATE OF THESE DOCUMENTS SHALL APPLY.
D. WHERE TWO OR MORE STANDARDS ARE SPECIFIED TO ESTABLISH QUALITY, THE PRODUCT AND WORKMANSHIP SHALL CONFORM TO OR SURPASS THE REQUIREMENTS OF BOTH.

SECTION 01300 - SUBMITTALS

1.1 PROCEDURES

A. COORDINATE SUBMITTAL PREPARATION WITH PERFORMANCE OF CONSTRUCTION ACTIVITIES, AND WITH PURCHASING OR FABRICATION, DELIVERY, OTHER SUBMITTALS AND RELATED ACTIVITIES. ALL SUBMITTALS SHALL BE PROVIDED BY WEEK FOUR (4) OF CONSTRUCTION TO AVOID DELAY.
  1. COORDINATE TRANSMITTAL OF DIFFERENT SUBMITTALS FOR RELATED ELEMENTS SO PROCESSING WILL NOT BE DELAYED BY THE NEED TO REVIEW CONCURRENTLY FOR COORDINATION.
  2. ALLOW TWO WEEKS FOR REVIEW.
  3. NO EXTENSION OF TIME WILL BE AUTHORIZED BECAUSE OF FAILURE TO TRANSMIT SUBMITTALS SUFFICIENTLY IN ADVANCE OF THE WORK TO PERMIT PROCESSING.
  4. CONTRACTOR WILL REIMBURSE ARCHITECT FOR ARCHITECT'S EXPENSES IN REVIEWING SUBMITTALS THAT ARE SUBMITTED MORE THAN TWO TIMES.
B. PLACE A TITLE BLOCK ON EACH SUBMITTAL FOR IDENTIFICATION. INDICATE THE NAME OF THE ENTITY THAT PREPARED THE SUBMITTAL, PROJECT NAME, DATE, AND NAME OF THE MANUFACTURER.
C. TRANSMIT WITH AIA DOCUMENT G810 OR OTHER FORM AS APPROVED BY ARCHITECT. INCLUDE CONTRACTOR'S CERTIFICATION THAT INFORMATION COMPLIES WITH CONTRACT DOCUMENTS.
D. THE ARCHITECT WILL REVIEW ONLY THE CONSTRUCTION DATA REQUESTED FOR CONFORMANCE WITH THE DESIGN OF THE PROJECT AND WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND NOT TO DETERMINE ACCURACY AND COMPLETENESS OF OTHER DETAILS SUCH AS DIMENSIONS AND QUANTITIES, OR FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR PERFORMANCE OF EQUIPMENT OR SYSTEMS.
  1. ARCHITECT'S REVIEW DOES NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. THE ARCHITECT'S REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
  2. THE ARCHITECT'S REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS THE CONTRACTOR HAS INFORMED THE ARCHITECT IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN ACCEPTANCE TO THE SPECIFIC DEVIATION, NOR SHALL THE ARCHITECT'S ACCEPTANCE RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE CONSTRUCTION DATA.
  3. NO PORTION OF THE WORK REQUIRING A SUBMISSION SHALL BE COMMENCED UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH REVIEWED CONSTRUCTION DATA.

1.2 SUBMITTALS

A. SUBMIT INFORMATION DRAWN TO ACCURATE SCALE. INDICATE DEVIATIONS FROM CONTRACT DOCUMENTS. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. WHERE PRINTED MATERIALS DESCRIBE MORE THAN ONE PRODUCT OR MODEL, CLEARLY IDENTIFY WHICH IS SUBMITTED FOR REVIEW. MARK EACH COPY TO SHOW APPLICABLE CHOICES AND OPTIONS.
  1. SUBMIT ELECTRONIC FILES CREATED WITH ADOBE ACROBAT VERSION 5.0 OR HIGHER: THE ARCHITECT WILL RETURN THE FILE WITH REDLINES MARKING ACTION TAKEN, CORRECTIONS, MODIFICATIONS, OR RESUBMITTALS REQUIRED.
  2. DO NOT USE SHOP DRAWINGS WITHOUT A FINAL STAMP INDICATING ACTION TAKEN IN CONNECTION WITH CONSTRUCTION.
  3. INCLUDE THE FOLLOWING INFORMATION: MANUFACTURER'S PRINTED RECOMMENDATIONS, COMPLIANCE WITH RECOGNIZED TESTING AGENCY STANDARDS, APPLICATION OF TESTING AGENCY LABELS AND SEALS, NOTATION OF DIMENSIONS VERIFIED BY FIELD MEASUREMENT, AND NOTATION OF COORDINATION REQUIREMENTS.
B. REQUIRED SUBMITTALS: REFER TO SPECIFICATIONS.

1.3 QUALITY ASSURANCE SUBMITTALS

A. SUBMIT QUALITY-CONTROL SUBMITTALS, INCLUDING CERTIFICATIONS, MANUFACTURER'S INSTRUCTIONS, MANUFACTURER'S FIELD REPORTS, AND OTHER QUALITY-CONTROL SUBMITTALS AS REQUIRED UNDER OTHER SECTIONS OF THE SPECIFICATIONS.
B. CERTIFICATIONS: WHERE SECTIONS OF THE SPECIFICATIONS REQUIRE CERTIFICATION THAT A PRODUCT, MATERIAL, OR INSTALLATION COMPLIES WITH SPECIFIED REQUIREMENTS, SUBMIT A NOTARIZED CERTIFICATION FROM THE MANUFACTURER CERTIFYING COMPLIANCE WITH SPECIFIED REQUIREMENTS. CERTIFICATION SHALL BE SIGNED BY AN OFFICER OF THE MANUFACTURER OR OTHER INDIVIDUAL AUTHORIZED TO SIGN DOCUMENTS ON BEHALF OF THE COMPANY.

1.4 WEEKLY PROGRESS REPORTS

A. PROVIDE PROGRESS REPORTS ELECTRONICALLY AS REQUIRED BY THE OWNER WHICH INCLUDES SCHEDULE UPDATE, RISK ISSUES, SUBMITTAL LOG, RFI LOG, AND PHOTOS.

SECTION 01400 - QUALITY CONTROL

1.1 TESTING GENERAL REQUIREMENTS

A. VALUES: ALL TEST FREQUENCIES ARE MINIMUM VALUES.

B. ADDITIONAL TESTING
  1. THE TESTING LABORATORY SHALL PERFORM ADDITIONAL TESTING IF REQUIRED TO THOROUGHLY EVALUATE THE MATERIAL. CHANGES IN MATERIAL OR SOURCES GENERALLY REQUIRE ADDITIONAL TESTING TO VERIFY SPECIFICATION COMPLIANCE.
  2. THE OWNER RESERVES THE RIGHT TO PERFORM ADDITIONAL TESTING ABOVE THESE MINIMUM AMOUNTS.
  3. RETESTING REQUIRED DUE TO FAILED TESTS WILL BE PAID FOR BY THE CONTRACTOR.

C. FIELD TESTS
  1. FIELD TESTS SHOULD PREFERABLY BE SCHEDULED BY THE CONTRACTORS 24 HOURS IN ADVANCE.
  2. TESTS MUST BE SCHEDULED BEFORE 5 O'CLOCK P.M. ON THE DAY PRIOR TO TESTING.
  3. SCHEDULING OF TESTS SHALL BE DONE BY CALLING THE TESTING LABORATORY'S OFFICE AND NOT THROUGH FIELD TECHNICIANS WORKING AT THE SITE.
  4. THE CONTRACTOR/SUBCONTRACTORS SHOULD EXPECT DELAYS IF THE TESTS ARE NOT SCHEDULED TO MEET THIS CRITERIA.

D. REPORTING: ALL TEST RESULTS SHALL BE REPORTED PROMPTLY AND DISTRIBUTED DIRECTLY TO THE OWNER' REPRESENTATIVE, ARCHITECT, STRUCTURAL ENGINEER, CIVIL ENGINEER, CONTRACTOR, AND GEOTECHNICAL ENGINEER OF RECORD AS APPROPRIATE.

1.2 SUBMITTALS

A. GENERAL: THE CONTRACTOR SHALL EMPLOY AND PAY FOR SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM SPECIFIED SERVICES AND TESTING. EMPLOYMENT OF LABORATORY SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO PERFORM THE WORK UNDER THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUFFICIENT INFORMATION AND ALL TEST REPORTS FOR SERVICES PROVIDED. FAILURE TO PROVIDE THESE REPORTS MAY RESULT IN THE REQUEST OF ADDITIONAL TESTING BY THE OWNER PRIOR TO ACCEPTANCE. ALL COSTS FOR THESE ADDITIONAL SERVICES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE LABORATORY AT APPROPRIATE TIMES DURING CONSTRUCTION.

B. MATERIALS AND PROCEDURES: SUBMITTALS SHALL BE AS REQUIRED IN SECTION 01300.

1.4 TESTING / OBSERVATION SERVICES

A. BUILDING CONSTRUCTION: ALL PHASES OF WORK WITHIN THE LIMITS OF THE PROPOSED CONSTRUCTION PROJECT.

  1. SOIL SAMPLING AND TESTING: PLACEMENT AND COMPACTION OF FILL WITHIN THE BUILDING LIMITS. SERVICES INCLUDE SAMPLING AND TESTING OF FILL SOILS, PERIODIC OBSERVATION OF EARTHWORK OPERATIONS, AND MOISTURE-DENSITY TESTING OF SUBGRADE AND COMPACTED FILLS. AS A MINIMUM, THE FOLLOWING SERVICES SHOULD BE PROVIDED:

A. SAMPLE MATERIALS PROPOSED FOR USE AS SUBGRADE, BACKFILL OR SELECT FILL.

B. PERFORM ATTERBERG LIMITS (ASTM D4318) FOR CLASSIFICATION PURPOSES FOR EACH SELECT FILL AND/OR BACKFILL MATERIALS PROPOSED FOR USE.

C. PERFORM MOISTURE DENSITY RELATIONSHIPS (ASTM D698 AND/OR ASTM D1557) FOR EACH MATERIAL PROPOSED FOR USE AS SUBGRADE, SELECT FILL AND/OR BACKFILL. PROVIDE A MINIMUM OF 3 WORKING DAYS TO COMPLETE THE MOISTURE DENSITY RELATIONSHIPS PRIOR TO NEEDING THE REQUIRED DENSITY TESTING.

D. PRIOR TO THE PLACEMENT OF FILL MATERIALS, PROOFROLL THE SUBGRADE SOILS WITH A LOADED TANDEM AXLE DUMP TRUCK MAKING SLOW PASSES ACROSS THE BUILDING PAD. ANY SOFT OR WET AREAS IDENTIFIED SHOULD BE REMEDIATED BASED ON THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT OR BY THE GEOTECHNICAL ENGINEER OF RECORD.

E. IF LIME STABILIZATION OF SUBGRADE OR FILL MATERIALS ARE REQUIRED WITHIN THE LIMITS OF THE BUILDING CONSTRUCTION THEN FIELD GRADATION TESTS ON THE LIME STABILIZED MATERIALS SHALL BE PERFORMED FOLLOWING THE CURING PERIOD. PERFORM FIELD GRADATION TESTS ON LIME TREATED MATERIALS AT A RATE OF ONE TEST PER 5,000 SQUARE FEET OR THREE TESTS PER LIFT.

F. PERFORM IN-SITU NUCLEAR DENSITY COMPACTION TESTING (ASTM D2922) IN THE FIELD TO DETERMINE MOISTURE CONTENT AND PERCENT COMPACTION OF COMPACTED MATERIALS AT A RATE OF ONE TEST PER 5,000 SQUARE FEET PER LIFT OR A MINIMUM OF 3 TESTS PER LIFT.

G. FOR BACKFILL OF FOUNDATIONS AND TRENCHES 12 INCHES WIDE AND WIDER BENEATH THE BUILDING SLAB, PERFORM NUCLEAR DENSITY COMPACTION TESTING (ASTM D2922) AT A RATE OF ONE TEST PER 100 LINEAL FEET PER LIFT.

  1. FOUNDATION INSTALLATION OBSERVATIONS: OBSERVATION OF BOTH DEEP AND SHALLOW FOUNDATION SYSTEMS. SERVICES INCLUDE VERIFICATION OF PIER OR SPREAD FOOTING SIZE, DEPTH, BEARING STRATUM, OBSERVATION OF THE REINFORCING STEEL INSTALLED AND CONCRETE TESTING. AS A MINIMUM, THE FOLLOWING SERVICES SHOULD BE PROVIDED.

A. DRILLED PIERS: OBSERVE THE INSTALLATION OF DRILLED AND UNDERREAMED PIERS; RECORD AUGER DIAMETER, BELLING TOOL DIAMETER, DEPTH AND BEARING STRATUM; DOCUMENT REINFORCING STEEL SIZE, SPACING, LENGTH AND CONFIGURATION PRIOR TO CONCRETE PLACEMENT; PROVIDE CONCRETE TESTING AS OUTLINED UNDER THE "CONCRETE TESTING" SECTION SHOWN BELOW.

B. SPREAD FOOTINGS/GRADE BEAMS: OBSERVE THE SPREAD FOOTING EXCAVATIONS PRIOR TO PLACEMENT OF CONCRETE; RECORD FOOTING SIZE, DEPTH, CLEANLINESS AND CONDITION OF BEARING STRATUM; DOCUMENT REINFORCING STEEL SIZE, SPACING, LENGTH AND CONFIGURATION PRIOR TO CONCRETE PLACEMENT; PROVIDE CONCRETE TESTING AS OUTLINED UNDER THE "CONCRETE TESTING" SECTION SHOWN BELOW.

C. FLOOR SLAB THICKNESS: OBTAIN AND DOCUMENT RANDOM SLAB THICKNESS PRIOR TO PLACEMENT OF CONCRETE BY ATTACHING A STRING ACROSS THE TOP OF THE SLAB FORMS AND MEASURING FROM THE STRING TO THE FINISHED SUBGRADE. THICKNESS MEASUREMENTS SHOULD BE RECORDED TO THE NEAREST 1/4 INCH.

  2. REINFORCING STEEL OBSERVATIONS: DOCUMENT REINFORCING STEEL SIZE, SPACING, LENGTH, AND CONFIGURATION PRIOR TO CONCRETE PLACEMENT FOR BUILDING FOUNDATIONS, COLUMNS, FOOTINGS, WALLS, SLABS, ETC

  3. CONCRETE TESTING AND OBSERVATIONS: CONCRETE FOR BUILDING FOUNDATIONS, COLUMNS, FOOTINGS, WALLS, SLABS, ETC. SERVICES INCLUDE MONITORING CONCRETE DURING PLACEMENT FOR STRUCTURAL ELEMENTS, SAMPLING CONCRETE, AND CONDUCTING SLUMP, TEMPERATURE, AIR CONTENT AND CONCRETE COMPRESSIVE STRENGTH TESTS. THE CONTRACTOR HAS THE RESPONSIBILITY TO REJECT CONCRETE THAT DOES NOT COMPLY WITH THE PROJECT SPECIFICATIONS OR IS UNSUITABLE FOR USE. THE CONTRACTOR ALSO HAS THE RESPONSIBILITY TO PROVIDE SUITABLE STORAGE FACILITIES AND TEMPERATURE CONTROL FOR TEST CYLINDERS DURING THE INITIAL CURING PERIOD AT THE CONSTRUCTION SITE. AT A MINIMUM, THE FOLLOWING SERVICES SHOULD BE PROVIDED:

A. SAMPLE THE FRESH CONCRETE AT THE POINT OF DISCHARGE AND PERFORM AND RECORD AIR CONTENT, SLUMP, AMBIENT AND MIX TEMPERATURE, AND MOLD COMPRESSIVE STRENGTH TEST SAMPLES AT A RATE OF 4 CYLINDERS PER 50 CUBIC YARDS FOR EACH MIX PLACED. A MINIMUM OF ONE SET OF 4 CYLINDERS SHALL BE CAST FOR EACH DAY'S PLACEMENT.

B. TEST CONCRETE COMPRESSIVE STRENGTH CYLINDERS (ASTM C 39) AT THE FOLLOWING TEST DATES.

  1. FOUNDATIONS/GRADE BEAMS: ONE AT 3 DAYS, ONE AT 7 DAYS, AND TWO AT 28 DAYS OF AGE.

  2. ALL OTHER CONCRETE: TWO AT 7 DAYS AND TWO AT 28 DAYS OF AGE UNLESS OTHERWISE REQUESTED.

  5. STRUCTURAL STEEL TESTING AND OBSERVATIONS: THIS ITEM REFERS TO STRUCTURAL STEEL WELDING, WELDING OF WALL PANEL CONNECTIONS, ROOF DECKS, ETC. SERVICES INCLUDE VISUAL OBSERVATION BY A CERTIFIED WELD INSPECTOR (CWI) OF FIELD WELDS AND RANDOM VERIFICATION OF WELD SIZES. IN ADDITION, AN ASNT LEVEL II ULTRASONIC TESTING TECHNICIAN WILL PROVIDE ULTRASONIC TESTING OF ALL FULL AND PARTIAL PENETRATION WELDS. VISUALLY OBSERVE BOLTED CONNECTIONS OR PERFORM VERIFICATION OF TIGHTNESS OF BOLTS USING A CALIBRATED TORQUE WRENCH. AT A MINIMUM, THE FOLLOWING SERVICES SHOULD BE PROVIDED.

A. PERFORM VISUAL WELD INSPECTIONS ON ALL FIELD WELDED CONNECTIONS IN ACCORDANCE WITH AWS D1.1 WITH RANDOM VERIFICATION OF WELD SIZES.

B. PERFORM VISUAL WELD INSPECTIONS OF DECK WELDS IN ACCORDANCE WITH AWS D1.3.

C. ULTRASONICALLY TEST ALL PARTIAL AND FULL PENETRATION WELDS.

D. FOR BEARING TYPE CONNECTIONS, PERFORM VISUAL OBSERVATIONS OF HIGH STRENGTH BOLTED CONNECTIONS TO VERIFY THE CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND PROPERLY SNUGGED. FOR SLIP CRITICAL CONNECTIONS, UTILIZE A CALIBRATED TORQUE WRENCH TO VERIFY THE PROPER TENSION HAS BEEN DEVELOPED FOR THE SPECIFIED BOLT. A MINIMUM OF 10 PERCENT OF ALL BOLTS WITH NO LESS THAN 2 BOLTS PER CONNECTION SELECTED AT RANDOM. FAILURE OF ANY BOLTS TO MEET THE JOB INSPECTING TORQUE VALUE WITHIN A CONNECTION WILL REQUIRE THAT ALL BOLTS WITHIN THAT CONNECTION BE TESTED.

B SITE DEVELOPMENT AND PARKING

A. PRIOR TO THE PLACEMENT OF AREA FILL OR STABILIZATION, PROOFROLL THE FILL AREA OR SUBGRADE SOILS WITH A LOADED TANDEM AXLE DUMP TRUCK MAKING SLOW PASSES. ANY SOFT OR WET AREAS IDENTIFIED SHOULD BE REMEDIATED BASED ON THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT OR BY THE GEOTECHNICAL ENGINEER OF RECORD.

B. FIELD GRADATION TESTS ON LIME STABILIZED SUBGRADE MATERIALS SHALL BE PERFORMED FOLLOWING THE CURING PERIOD. PERFORM FIELD GRADATION TESTS ON LIME TREATED SUBGRADE MATERIALS AT A RATE OF ONE TEST PER 10,000 SQUARE FEET OR THREE TESTS PER AREA STABILIZED FOR PAVING SUBGRADE.

C. PERFORM IN-SITU NUCLEAR DENSITY COMPACTION TESTING (ASTM D2922) IN THE FIELD TO DETERMINE MOISTURE CONTENT AND PERCENT COMPACTION OF COMPACTED MATERIALS AT A RATE OF ONE TEST PER 5,000 SQUARE FEET PER LIFT WITH A MINIMUM OF 3 TESTS PER LIFT.

D. FOR BACKFILL OF UTILITY TRENCHES 18 INCHES WIDE AND WIDER OR BACKFILL OF RETAINING WALLS, PERFORM NUCLEAR DENSITY COMPACTION TESTING (ASTM D2922) AT A RATE OF ONE TEST PER 100 LINEAL FEET PER LIFT WITH A MINIMUM OF 3 TESTS PER LIFT.

E. FOR STABILIZED SUBGRADE, PERFORM THICKNESS MEASUREMENTS OF STABILIZED LAYER AT A RATE OF ONE TEST PER 20,000 SQUARE FEET WITH A MINIMUM OF THREE TESTS PER AREA STABILIZED.

F. PRIOR TO THE PLACEMENT OF ANY SUBSEQUENT PAVEMENT LAYER, THE PROJECT SUPERINTENDENT, OWNER'S REPRESENTATIVE AND GEOTECHNICAL ENGINEER (OR THEIR REPRESENTATIVES) WILL WALK THE PAVING SUBGRADE TO IDENTIFY ANY SOFT, WET OR DISTURBED AREAS. AREAS IDENTIFIED SHOULD BE REWORKED AND RETESTED PRIOR TO START OF PAVING OPERATIONS.

  2. SOIL SAMPLING AND TESTING: THIS ITEM REFERS TO PLACEMENT AND COMPACTION OF MATERIALS OUTSIDE OF THE BUILDING AREAS INCLUDING GENERAL FILL TO ACHIEVE SUBGRADE ELEVATION, BACKFILL OF ON-SITE UTILITIES, BACKFILL OF RETAINING WALLS, AND STABILIZATION OF PAVING SUBGRADE. SERVICES INCLUDE SAMPLING AND TESTING OF FILL SOILS, PERIODIC OBSERVATION OF EARTHWORK OPERATIONS AND BACKFILLING OF UTILITIES AND RETAINING WALLS AND MOISTURE-DENSITY TESTING OF COMPACTED FILLS, BACKFILL AND TREATED SUBGRADE. AS A MINIMUM, THE FOLLOWING SERVICES SHOULD BE PROVIDED:

A. SAMPLE MATERIALS PROPOSED FOR USE AS ON-SITE FILL, IMPORTED FILL, BACKFILL OR TREATED SUBGRADE.

B. PERFORM ATTERBERG LIMITS (ASTM D4318) FOR CLASSIFICATION PURPOSES FOR EACH ON-SITE FILL, IMPORTED FILL, BACKFILL OR TREATED SUBGRADE PROPOSED FOR USE.

C. PERFORM MOISTURE DENSITY RELATIONSHIPS (ASTM D698, ASTM 1557, TEX 113-E OR ASTM D558) FOR EACH MATERIAL PROPOSED FOR USE AS TREATED SUBGRADE, SELECT FILL AND/OR BACKFILL. PROVIDE A MINIMUM OF 3 WORKING DAYS TO COMPLETE THE MOISTURE DENSITY RELATIONSHIPS PRIOR TO NEEDING THE REQUIRED DENSITY TESTING.

D. SAMPLE THE BASE MATERIALS PROPOSED FOR USE.

E. PERFORM ATTERBERG LIMITS AND AGGREGATE GRADATION FOR CLASSIFICATION OF THE BASE MATERIAL PROPOSED FOR USE.

F. PERFORM MOISTURE DENSITY RELATIONSHIPS FOR EACH MATERIAL PROPOSED FOR USE. PROVIDE A MINIMUM OF 3 WORKING DAYS TO COMPLETE THE MOISTURE DENSITY RELATIONSHIPS PRIOR TO NEEDING THE REQUIRED DENSITY TESTING.

G. PERFORM IN-SITU NUCLEAR DENSITY COMPACTION TESTING (ASTM D2922) IN THE FIELD TO DETERMINE MOISTURE CONTENT AND PERCENT COMPACTION OF COMPACTED MATERIALS AT A RATE OF ONE TEST PER 5,000 SQUARE FEET PER LIFT WITH A MINIMUM OF 3 TESTS PER SITE VISIT.

H. FOR AGGREGATE BASE, PERFORM THICKNESS MEASUREMENT OF BASE LAYER AT A RATE OF ONE TEST PER 10,00 SQUARE FEET WITH A MINIMUM OF THREE TESTS PER AREA.

  1. HOT MIXED ASPHALTIC CONCRETE TESTING:

A. AT LEAST FOUR WEEKS PRIOR TO START OF ASPHALT PLACEMENT, REVIEW THE CONTRACTOR'S SUBMITTED ASPHALT MIX DESIGNS PROPOSED FOR USE. THE MIX DESIGN SHALL INCLUDE TESTS TO DETERMINE IF THE MIX IS SUSCEPTIBLE TO STRIPPING OR THE EFFECTIVENESS OF ANTI-STRIPPING ADDITIVES IN THE PAVING MIXTURE.

B. MONITOR THE ASPHALT PLACEMENT, TAKING RANDOM ASPHALT TEMPERATURES DURING PLACEMENT AND COMPACTION OF THE ASPHALT LAYER. IN ADDITION, OBTAIN ONE BULK SAMPLE PER DAY OF ASPHALTIC CONCRETE BEING PLACED.

C. THE FOLLOWING TESTS WILL BE PERFORMED ON EACH BULK SAMPLE: ASPHALT CONTENT, AGGREGATE, GRADATION, MOLDED DENSITY, THEORETICAL MAXIMUM VOIDLESS DENSITY, AND STABILITY.

D. ASSIST THE CONTRACTOR IN ESTABLISHING A ROLLING PATTERN. THE NUCLEAR DENSITY GAUGE WILL BE UTILIZED TO DETERMINE RELATIVE DENSITIES OF THE ASPHALT LAYER DURING THE CONTRACTOR'S ROLLING PROCEDURES. PROVIDE ADDITIONAL DENSITIES DURING ASPHALT PLACEMENT AT A RATE OF ONE TEST PER 2,500 SQUARE FEET PER LAYER. THE CONTRACTOR SHALL UNDERSTAND THAT ALL NUCLEAR GAUGE DENSITY TESTING IS PERFORMED AS AN AID TO CONSTRUCTION AND WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PRODUCE THE REQUIRED DENSITY.

E. FOLLOWING THE COMPLETION OF THE ASPHALT PAVING, OBTAIN ONE CORE PER 10,000 SQUARE FEET OF NEWLY PLACED PAVEMENT WITH A MINIMUM OF 3 CORES PER PROJECT. THE CORES WILL BE UTILIZED TO DETERMINE DENSITY OF THE COMPACTED ASPHALT LAYER AND THE OVERALL PAVEMENT THICKNESS (ASTM 3549).

  1. REINFORCING STEEL OBSERVATIONS: DOCUMENT REINFORCING STEEL SIZE, SPACING, LENGTH, AND CONFIGURATION PRIOR TO CONCRETE PLACEMENT FOR PAVEMENTS.

  2. CONCRETE TESTING AND OBSERVATIONS: CONCRETE FOR PAVEMENTS. SERVICES INCLUDE MONITORING CONCRETE DURING PLACEMENT FOR PAVING, SAMPLING CONCRETE, AND CONDUCTING SLUMP, TEMPERATURE, AIR CONTENT AND CONCRETE COMPRESSIVE STRENGTH TESTS. THE CONTRACTOR HAS THE RESPONSIBILITY TO REJECT CONCRETE THAT DOES NOT COMPLY WITH THE PROJECT SPECIFICATIONS OR IS UNSUITABLE FOR USE. THE CONTRACTOR ALSO HAS THE RESPONSIBILITY TO PROVIDE SUITABLE STORAGE FACILITIES AND TEMPERATURE CONTROL FOR TEST CYLINDERS DURING THE INITIAL CURING PERIOD AT THE CONSTRUCTION SITE. AT A MINIMUM, THE FOLLOWING SERVICES SHOULD BE PROVIDED:

A. SAMPLE THE FRESH CONCRETE AT THE POINT OF DISCHARGE AND PERFORM AND RECORD AIR CONTENT, SLUMP, AMBIENT AND MIX TEMPERATURE, AND MOLD COMPRESSIVE STRENGTH TEST SAMPLES AT A RATE OF 4 CYLINDERS PER 150 CUBIC YARDS OR FRACTION THEREOF. A MINIMUM OF ONE SET OF 4 CYLINDERS SHALL BE CAST FOR EACH DAY'S PLACEMENT.

B. TEST CONCRETE COMPRESSIVE STRENGTH CYLINDERS (ASTM C 39): ONE AT 3 DAYS, ONE AT 7 DAYS, AND B. TWO AT 28 DAYS OF AGE.

  1. PRIOR TO THE COMPLETION OF THE FINAL PUNCH LIST, THE CONTRACTOR'S SUPERINTENDENT, OWNER'S REPRESENTATIVE AND GEOTECHNICAL ENGINEER (OR THEIR DESIGNATED REPRESENTATIVES) SHALL WALK THE CONCRETE AND ASPHALT PAVEMENT TO IDENTIFY ANY AREAS REQUIRING REPAIR OR REPLACEMENT.

SECTION 01500 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

1.1 QUALITY ASSURANCE

A. COMPLY WITH INDUSTRY STANDARDS AND APPLICABLE LAWS AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

B. COMPLY WITH NFPA 241 "STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATIONS, AND DEMOLITION OPERATIONS," ANSI A10 SERIES STANDARDS FOR "SAFETY REQUIREMENTS FOR CONSTRUCTION AND DEMOLITION," AND NECA ELECTRICAL DESIGN LIBRARY "TEMPORARY ELECTRICAL FACILITIES." ELECTRICAL SERVICE SHALL COMPLY WITH NEMA, NECA, AND UL STANDARDS AND REGULATIONS FOR TEMPORARY ELECTRIC SERVICE. INSTALL SERVICE IN COMPLIANCE WITH NFPA 70 "NATIONAL ELECTRIC CODE."

C. ARRANGE FOR AUTHORITIES HAVING JURISDICTION TO INSPECT AND TEST EACH TEMPORARY UTILITY BEFORE USE. OBTAIN REQUIRED CERTIFICATIONS AND PERMITS.

1.2 TEMPORARY UTILITIES

A. WHERE AVAILABLE, CONTRACTOR MAY USE EXISTING UTILITIES WHEN APPROVED IN WRITING BY THE OWNER. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AND EXTENSIONS THERETO. MAINTAIN IN A SAFE MANNER AND UTILIZE SO AS NOT TO CONSTITUTE A HAZARD TO PERSONS OR PROPERTY. CONNECTIONS OR EXTENSIONS WHICH REPRESENT A SAFETY HAZARD SHALL BE PROMPTLY REMEDIED AT CONTRACTOR'S COST.

  1. LIGHT AND POWER: PROVIDE TEMPORARY ELECTRIC POWER REQUIRED THROUGHOUT THE CONSTRUCTION PERIOD SO THAT POWER CAN BE SECURED AT ANY DESIRED POINT WITHIN THE BUILDING WITH NO MORE THAN 100 FEET EXTENSION.

  2. WATER: PROVIDE AND MAINTAIN TEMPORARY WATER SERVICE FOR DRINKING AND CONSTRUCTION PURPOSES FOR ALL PARTS OF THE WORK. PROVIDE POTABLE WATER APPROVED BY LOCAL HEALTH AUTHORITIES.

  3. HEAT AND VENTILATION: PROVIDE WEATHER-TIGHT ENCLOSURES AND HEATING AND VENTILATING AS REQUIRED DURING CONSTRUCTION TO PROTECT THE WORK FROM DAMAGE, AND AS NECESSARY TO ENSURE SUITABLE WORKING CONDITIONS FOR THE CONSTRUCTION OPERATIONS OF ALL TRADES. MAINTAIN BUILDING TEMPERATURE AS SPECIFIED IN THE VARIOUS SECTIONS OF THE SPECIFICATIONS, BUT NOT LESS THAN 50 DEGREES F.

B. TELEPHONE AND FACSIMILE: PROVIDE DEDICATED SERVICE FOR CONSTRUCTION NEEDS THROUGHOUT CONSTRUCTION PERIOD. TELEPHONE AND FACSIMILE MACHINE SHALL BE PROVIDED IN THE FIELD OFFICE. COMMUNICATION BETWEEN THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE CONTRACTOR SHALL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING: ANSWERING MACHINE CONNECTED TO TELEPHONE IN FIELD OFFICE OR CELLULAR PHONE WITH ANSWERING SERVICE FOR CONTRACTOR.

C. SANITARY FACILITIES: PROVIDE AND MAINTAIN TEMPORARY TOILET AND OTHER SANITARY FACILITIES FOR ALL WORKERS ON THE PROJECT. PROVIDE SELF-CONTAINED, SINGLE-OCCUPANT TOILET UNITS OF THE CHEMICAL, AERATED RECIRCULATION, OR COMBUSTION TYPE. PROVIDE UNITS PROPERLY VENTED AND FULLY ENCLOSED WITH A GLASS-FIBER-REINFORCED POLYESTER SHELL OR SIMILAR NONABSORBENT MATERIAL.

D. FIRST AID: PROVIDE AS REQUIRED BY AND IN ACCORDANCE WITH LEGAL REQUIREMENTS.

1.3 FIELD OFFICES AND STORAGE SHEDS

A. PROVIDE FIELD OFFICES AND STORAGE SHEDS AS REQUIRED FOR TIMELY PROGRESS OF WORK. LOCATE TEMPORARY STRUCTURES TO AVOID INTERFERENCE WITH WORK AND AS APPROVED BY OWNER'S REPRESENTATIVE.

  1. FIELD OFFICES: PROVIDE INSULATED, WEATHER-TIGHT OFFICES OF SIZE TO ACCOMMODATE PERSONNEL. PROVIDE HEATED AND AIR-CONDITIONED UNITS, ON ADEQUATE FOUNDATIONS, WITH LOCKABLE ENTRANCES, OPERABLE WINDOWS AND SERVICEABLE FINISHES. FACILITIES SHALL BE ACCESSIBLE TO THE ARCHITECT AND OWNER'S REPRESENTATIVES AT ALL TIMES.

A. FACILITIES SHALL HAVE DESK SPACE FOR THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE WITH AVAILABLE POWER AND HIGH SPEED WIRELESS INTERNET CONNECTION.

B. PROVIDE PLAN RACK FOR PLAN LAYOUT.

C. PROVIDE TABLE FOR MEETINGS.

D. CONTRACTOR SHALL PROVIDE PRINTER CAPABLE OF PRINTING 11" X 17" DOCUMENTS.

  2. STORAGE AND FABRICATION SHEDS: INSTALL SHEDS, EQUIPPED TO ACCOMMODATE MATERIALS AND EQUIPMENT INVOLVED.

1.4 SAFETY AND ENVIRONMENTAL REQUIREMENTS

A. JOBSITE AND PUBLIC SAFETY AND SECURITY IS THE CONTRACTOR'S SOLE RESPONSIBILITY INCLUDING PROVIDING ALL NECESSARY AMENITIES. ANY LIABILITY OCCURRING DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

B. KEEP FACILITIES CLEAN AND NEAT. OPERATE IN A SAFE AND EFFICIENT MANNER. DO NOT OVERLOAD, OR PERMIT FACILITIES TO INTERFERE WITH PROGRESS. DO NOT ALLOW HAZARDOUS, DANGEROUS OR UNSANITARY CONDITIONS, OR PUBLIC NUISANCES TO DEVELOP OR PERSIST ON THE SITE. MAINTAIN PROJECT IN ACCORDANCE WITH STATE AND LOCAL SAFETY AND INSURANCE STANDARDS.

C. TEMPORARY FIRE PROTECTION: UNTIL FIRE-PROTECTION NEEDS ARE SUPPLIED BY PERMANENT FACILITIES, INSTALL AND MAINTAIN TEMPORARY FIRE-PROTECTION FACILITIES OF THE TYPES NEEDED TO PROTECT AGAINST REASONABLY PREDICTABLE AND CONTROLLABLE FIRE LOSSES. COMPLY WITH NFPA 10 "STANDARD FOR PORTABLE FIRE EXTINGUISHERS" AND NFPA 241 "STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATIONS, AND DEMOLITION OPERATIONS."

  1. LOCATE FIRE EXTINGUISHERS WHERE CONVENIENT AND EFFECTIVE FOR THEIR INTENDED PURPOSE.

  2. STORE COMBUSTIBLE MATERIALS IN CONTAINERS IN FIRE-SAFE LOCATIONS.

  3. MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE-PROTECTION FACILITIES, STAIRWAYS, AND OTHER ACCESS ROUTES FOR FIGHTING FIRES. PROHIBIT SMOKING IN HAZARDOUS FIRE-EXPOSURE AREAS.

  4. PROVIDE SUPERVISION OF WELDING OPERATIONS, COMBUSTION-TYPE TEMPORARY HEATING UNITS, AND SIMILAR SOURCES OF FIRE IGNITION.

C. ENCLOSURES AND BARRICADES:

  1. COVERED WALKWAY: ERECT A STRUCTURALLY ADEQUATE, PROTECTIVE COVERED WALKWAY FOR PASSAGE OF PERSONS ALONG THE ADJACENT PUBLIC STREET. COORDINATE WITH ENTRANCE GATES, OTHER FACILITIES, AND OBSTRUCTIONS. COMPLY WITH REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

  2. BARRICADES, WARNING SIGNS, AND LIGHTS: COMPLY WITH STANDARDS AND CODE REQUIREMENTS FOR ERECTION OF STRUCTURALLY ADEQUATE BARRICADES. PAINT WITH APPROPRIATE COLORS, GRAPHICS, AND WARNING SIGNS TO INFORM PERSONNEL AND THE PUBLIC OF THE HAZARD BEING PROTECTED AGAINST. WHERE APPROPRIATE AND NEEDED, PROVIDE LIGHTING, INCLUDING FLASHING RED OR AMBER LIGHTS.

  3. TEMPORARY EQUIPMENT AND BARRIERS: LOCATION AND ARRANGEMENT OF TEMPORARY EQUIPMENT AND BARRIERS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PROVIDE SUCH TEMPORARY WALKS, FENCES OR OTHER PROTECTIVE STRUCTURES AS ARE NECESSARY FOR SAFETY OF THE PUBLIC. PROVIDE SUFFICIENT LIGHTING ADJACENT TO ANY AND ALL OBSTRUCTIONS OR HAZARDS DURING CONSTRUCTION.

D. HAZARDS CONTROL:

  1. STORE VOLATILE WASTE IN COVERED METAL CONTAINERS, AND REMOVE FROM PREMISES DAILY.

  2. PREVENT ACCUMULATION OF WASTES WHICH CREATE HAZARDOUS CONDITIONS.

  3. PROVIDE ADEQUATE VENTILATION DURING USE OF VOLATILE OR NOXIOUS SUBSTANCES.

E. SECURITY ENCLOSURE AND LOCKUP: PROVIDE PROTECTION FOR MATERIALS, TOOLS AND EQUIPMENT EMPLOYED ON THE PROJECT INCLUDING THE TOOLS OF WORKMEN. THE OWNER SHALL NOT BE HELD TO HAVE INCURRED ANY LIABILITY FOR LOSS OF, OR DAMAGE TO, MATERIALS, TOOLS AND EQUIPMENT OF THE CONTRACTOR, OR OF THOSE EMPLOYED BY HIM, BY CONTRACT OR OTHERWISE.

F. PROVIDE RECYCLE BINS DURING CONSTRUCTION WHEN WASTE HAUL SOURCES ARE AVAILABLE.

1.5 PARKING

A. PARKING FOR WORKMEN MAY BE PROVIDED ON THE SITE TO THE EXTENT THAT SPACE FOR THAT PURPOSE MAY BE AVAILABLE WITHOUT INTERFERENCE WITH ACTIVITIES RELATED TO PERFORMANCE OF THE WORK. CONTRACTOR MAY PARK ONLY IN AREAS DESIGNATED BY THE OWNER FOR CONTRACTOR USE. ADDITIONAL PARKING SPACE REQUIRED BY THE CONTRACTOR SHALL BE SECURED OFF SITE AT CONTRACTOR'S EXPENSE.

1.6 CLEANING

A. DAILY DURING CONSTRUCTION, KEEP PREMISES AND PUBLIC PROPERTIES FREE FROM ACCUMULATIONS OF WASTE, DEBRIS, AND RUBBISH CAUSED BY OPERATIONS.

B. PROVIDE ON-SITE CONTAINERS FOR COLLECTION OF WASTE MATERIALS, DEBRIS AND RUBBISH.

C. HANDLE MATERIALS IN A CONTROLLED MANNER WITH AS FEW HANDLINGS AS POSSIBLE; DO NOT DROP OR THROW MATERIALS FROM HEIGHTS.

D. CONDUCT CLEANING AND DISPOSAL OPERATIONS TO COMPLY WITH LOCAL ORDINANCES AND ANTI-POLLUTION LAWS.

  1. DO NOT BURN OR BURY RUBBISH AND WASTE MATERIALS ON PROJECT SITE.

  2. DO NOT DISPOSE OF VOLATILE WASTES SUCH AS MINERAL SPIRITS, OIL, OR PAINT THINNER IN STORM OR SANITARY DRAINS.

  3. USE BIODEGRADABLE, PHOSPHATE-FREE CLEANING MATERIALS.

E. SCHEDULE CLEANING OPERATIONS SO THAT DUST AND OTHER CONTAMINANTS RESULTING FROM CLEANING PROCESS WILL NOT FALL ON WET, NEWLY PAINTED SURFACES.

F. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CLEANING:

  1. USE ONLY CLEANING MATERIALS RECOMMENDED BY MANUFACTURER OF SURFACE TO BE CLEANED.

  2. USE CLEANING MATERIALS ONLY ON SURFACES RECOMMENDED BY CLEANING MATERIAL MANUFACTURER.

  3. USE BIODEGRADABLE, PHOSPHATE-FREE CLEANING MATERIALS.

G. IF THE CONTRACTOR FAILS TO CLEAN UP AS PROVIDED IN THE CONTRACT DOCUMENTS, THE OWNER MAY DO SO AND THE COST THEREOF SHALL BE CHARGED TO THE CONTRACTOR.

1.7 OPERATION, TERMINATION, AND REMOVAL

A. PROVIDE INSTALLATION, OPERATION, MAINTENANCE AND REMOVAL OF TEMPORARY FACILITIES, EQUIPMENT, SERVICES, UTILITIES, AND CONTROLS REQUIRED FOR THE PROSECUTION OF THE WORK. INSTALL AND MAINTAIN IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.

B. ENGAGE THE APPROPRIATE LOCAL UTILITY COMPANY TO INSTALL TEMPORARY SERVICE OR CONNECT TO EXISTING SERVICE. WHERE COMPANY PROVIDES ONLY PART OF THE SERVICE, PROVIDE THE REMAINDER WITH MATCHING, COMPATIBLE MATERIALS AND EQUIPMENT. COMPLY WITH COMPANY RECOMMENDATIONS.

  1. ARRANGE WITH COMPANY AND EXISTING USERS FOR A TIME WHEN SERVICE CAN BE INTERRUPTED, IF NECESSARY, TO MAKE CONNECTIONS FOR TEMPORARY SERVICES.

  2. PROVIDE ADEQUATE CAPACITY AT EACH STAGE OF CONSTRUCTION. PRIOR TO TEMPORARY UTILITY AVAILABILITY, PROVIDE TRUCKED-IN SERVICES.

  3. OBTAIN EASEMENTS TO BRING TEMPORARY UTILITIES TO THE SITE WHERE THE OWNER'S EASEMENTS CANNOT BE USED FOR THAT PURPOSE.

  4. USE CHARGES: COST OR USE CHARGES FOR TEMPORARY FACILITIES ARE NOT CHARGEABLE TO THE OWNER OR THE ARCHITECT. NEITHER THE OWNER NOR THE ARCHITECT WILL ACCEPT COST OR USE CHARGES AS A BASIS OF CLAIMS FOR CHANGE ORDERS.

C. MAINTAIN STRICT SUPERVISION OF USE OF ALL TEMPORARY FACILITIES AND CONTROLS. ENFORCE COMPLIANCE WITH APPLICABLE STANDARDS. PREVENT ABUSE OF SERVICES.

D. REMOVE TEMPORARY OFFICE FACILITIES, TOILETS, STORAGE SHEDS, AND OTHER CONSTRUCTION OF TEMPORARY NATURE FROM THE SITE AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. PROPERLY RECONDITION AND RESTORE THE PORTIONS OF THE SITE OCCUPIED BY TEMPORARY FACILITIES TO A CONDITION ACCEPTABLE TO THE OWNER AND AT LEAST EQUAL TO CONDITION AT TIME OF START OF WORK.

E. ALL DISTURBED AREAS OF THE SITE INCLUDING CITY / COUNTY R.O.W. OR ADJACENT PROPERTY WHICH WERE DISTURBED AS A PART OF THE CONSTRUCTION PROCESS SHALL BE GRADED AND RE-VEGETATED PRIOR TO ACCEPTANCE BY THE OWNER.

SECTION 01600 - MATERIALS

1.1 PRODUCT REQUIREMENTS

A. PROVIDE PRODUCTS THAT COMPLY WITH THE CONTRACT DOCUMENTS, UNDAMAGED AND UNUSED AT INSTALLATION. PROVIDE PRODUCTS COMPLETE WITH ALL ACCESSORIES, TRIM, FINISH, SAFETY GUARDS AND OTHER DEVICES AND DETAILS NEEDED FOR A COMPLETE INSTALLATION AND FOR THE INTENDED USE AND EFFECT. WHERE INDICATED, INSTALL PRODUCTS FURNISHED BY THE OWNER OR TENANT.

B. PRODUCT SELECTION PROCEDURES:

  1. WHERE SPECIFICATIONS NAME ONLY A SINGLE PRODUCT OR MANUFACTURER, PROVIDE THE PRODUCT INDICATED. NO SUBSTITUTIONS WILL BE PERMITTED.

  2. WHERE SPECIFICATIONS NAME 2 OR MORE PRODUCTS OR MANUFACTURERS, PROVIDE 1 OF THE PRODUCTS INDICATED. NO SUBSTITUTIONS WILL BE PERMITTED.

  3. WHERE SPECIFICATIONS REQUIRE COMPLIANCE WITH PERFORMANCE REQUIREMENTS, PROVIDE PRODUCTS THAT COMPLY WITH THESE REQUIREMENTS AND ARE RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INDICATED.

  4. PROVIDE MATERIALS THAT ARE LOCALLY MANUFACTURED AS APPROPRIATE TO THE DESIGN INTENT.

C. TO THE FULLEST EXTENT POSSIBLE, PROVIDE PRODUCTS OF THE SAME KIND, FROM A SINGLE SOURCE.

D. NAMEPLATES:

  1. EXCEPT FOR REQUIRED LABELS AND OPERATING DATA, DO NOT ATTACH MANUFACTURER'S NAMEPLATES OR TRADEMARKS ON SURFACES EXPOSED TO VIEW IN OCCUPIED SPACES OR ON THE EXTERIOR.

  2. EQUIPMENT NAMEPLATES: PROVIDE A PERMANENT NAMEPLATE ON EACH ITEM OF SERVICE-CONNECTED OR POWER-OPERATED EQUIPMENT. LOCATE ON AN INCONSPICUOUS ACCESSIBLE SURFACE. THE NAMEPLATE SHALL CONTAIN THE FOLLOWING INFORMATION AND ESSENTIAL OPERATING DATA: NAME OF PRODUCT AND MANUFACTURER, MODEL AND SERIAL NUMBER, CAPACITY, SPEED, AND RATINGS.

E. REFER TO SPECIFICATIONS AND DRAWINGS FOR MATERIALS AND STANDARDS OF CONSTRUCTION.

1.2 DELIVERY, STORAGE AND HANDLING

A. CONTRACTOR TO VERIFY SIZE, CHARACTERISTICS, AND REQUIRED CLEARANCES OF ALL EQUIPMENT TO BE FURNISHED WITH MANUFACTURERS OR SUPPLIERS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATION. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

B. TRANSPORT, DELIVER, STORE AND HANDLE PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, USING MEANS AND METHODS THAT WILL PREVENT DAMAGE, DETERIORATION AND LOSS, INCLUDING THEFT.

  1. DELIVER PRODUCTS TO THE SITE IN THE MANUFACTURER'S ORIGINAL SEALED CONTAINER COMPLETE WITH LABELS AND INSTRUCTIONS FOR HANDLING, STORING UNPACKING, PROTECTING AND INSTALLING.

C. COORDINATE DELIVERY WITH INSTALLATION TIME TO ENSURE MINIMUM HOLDING TIME FOR ITEMS THAT ARE FLAMMABLE, HAZARDOUS, EASILY DAMAGED OR SENSITIVE TO DETERIORATION, THEFT AND OTHER LOSSES.

D. STORAGE:

  1. STORE PRODUCTS AT THE SITE IN A MANNER THAT WILL FACILITATE INSPECTION AND MEASUREMENT OF QUANTITY OR COUNTING OF UNITS.

  2. STORE HEAVY MATERIALS AWAY FROM THE PROJECT STRUCTURE IN A MANNER THAT WILL NOT ENDANGER THE SUPPORTING CONSTRUCTION.

  3. STORE PRODUCTS SUBJECT TO DAMAGE BY THE ELEMENTS ABOVE GROUND, UNDER COVER IN A WEATHER-TIGHT ENCLOSURE, WITH VENTILATION ADEQUATE TO PREVENT CONDENSATION. MAINTAIN TEMPERATURE AND HUMIDITY WITHIN RANGE REQUIRED BY MANUFACTURER'S INSTRUCTIONS.

E. PROTECTION:

  1. PROTECT ALL FINISHED SURFACES, INCLUDING JAMBS AND SOFFITS OF ALL OPENINGS USED AS PASSAGEWAYS OR THROUGH WHICH MATERIALS AND EQUIPMENT ARE HANDLED.

  2. PROTECT FINISHED FLOOR SURFACES BEFORE MOVING ANY MATERIAL AND EQUIPMENT OVER THESE FINISHED SURFACES.

  3. PROTECT EXTERIOR PAVING AND SITEWORK FROM CONSTRUCTION ACTIVITIES.

F. INSTALLATION:

  1. INSPECT THE SUBSTRATE AND CONDITIONS UNDER WHICH WORK IS PERFORMED. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

  2. COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

  3. PROVIDE ATTACHMENT AND CONNECTION DEVICES AND METHODS NECESSARY FOR SECURING EACH CONSTRUCTION ELEMENT. ALLOW FOR EXPANSION AND BUILDING MOVEMENT.

  4. INSTALL EACH COMPONENT DURING WEATHER CONDITIONS AND PROJECT STATUS THAT WILL ENSURE THE BEST RESULTS. ISOLATE EACH PART FROM INCOMPATIBLE MATERIAL AS NECESSARY TO PREVENT DETERIORATION.

  5. INSTALL SQUARE, LEVEL, PLUMB AND ACCURATELY ALIGNED. WHERE EXISTING ADJACENT MATERIALS AND ELEMENTS ARE NOT PLUMB AND LEVEL, INSTALL NEW MATERIALS AND ELEMENTS TO ALIGN WITH EXISTING.

  6. CLEAN EXPOSED SURFACES AND PROTECT TO ENSURE FREEDOM FROM DAMAGE AND DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION AND FINAL ACCEPTANCE.

1.3 SUBSTITUTIONS

A. SUBSTITUTIONS DURING BIDDING WILL BE REVIEWED BY THE ARCHITECT UP TO 5 WORKING DAYS PRIOR TO BIDS. SUBSTITUTIONS MUST BE FORMALLY REQUESTED FROM THE CONTRACTOR FOR PRODUCTS IN PLACE OF THOSE SPECIFIED.

B. DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS.

C. A REQUEST CONSTITUTES A REPRESENTATION THAT THE CONTRACTOR:

  1. HAS INVESTIGATED PROPOSED PRODUCT AND DETERMINED THAT IT MEETS OR EXCEEDS THE QUALITY LEVEL OF THE SPECIFIED PRODUCT.

  2. WILL PROVIDE THE SAME OR GREATER WARRANTY FOR THE SUBSTITUTION AS FOR THE SPECIFIED PRODUCT.

  3. WILL COORDINATE INSTALLATION AND MAKE CHANGES TO OTHER WORK WHICH MAY BE REQUIRED FOR THE WORK TO BE COMPLETE WITH NO ADDITIONAL COST TO THE OWNER.

  4. WAIVES CLAIMS FOR ADDITIONAL COSTS OR TIME EXTENSION WHICH MAY SUBSEQUENTLY BECOME APPARENT.

  5. WILL REIMBURSE ARCHITECT FOR REVIEW AND REDESIGN SERVICES.

D. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN THEY ARE INDICATED OR IMPLIED ON SHOP DRAWING OR PRODUCT DATA SUBMITTALS, WITHOUT SEPARATE WRITTEN REQUEST, OR WHEN ACCEPTANCE WILL REQUIRE REVISION TO THE CONTRACT DOCUMENTS.

E. SUBSTITUTION SUBMITTAL PROCEDURE:

  1. SUBMIT A FORMAL SUBSTITUTION REQUEST FOR CONSIDERATION. LIMIT EACH REQUEST TO ONE PROPOSED SUBSTITUTION.

  2. SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND CERTIFIED TEST RESULTS ATTESTING TO THE PROPOSED PRODUCT EQUIVALENCE. BURDEN OF PROOF IS ON PROPOSER.

  3. THE ARCHITECT WILL NOTIFY CONTRACTOR IN WRITING OF DECISION TO ACCEPT OR REJECT REQUEST. THE ARCHITECT'S DECISION IN ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL BE FINAL.

  4. ANY SUBSTITUTION REQUEST NOT FORMALLY SUBMITTED WITHIN THE TIMEFRAME AND AS DISCUSSED HEREIN, WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.

SECTION 04200 - UNIT MASONRY

1.1 SUBMITTALS

A. PROVIDE TWO (2) SAMPLES OF EACH TYPE OF SPECIFIED BLOCK TO THE ARCHITECT. INCLUDE SILL PIECE.
B. MOCK UP (IF INDICATED ON DRAWINGS): REFER TO DRAWINGS FOR MOCK UP ELEVATION. MOCK UP SHALL REPRESENT ALL ASPECTS OF THE MASONRY SYSTEM INCLUDING ALL MASONRY TYPES, COLOR RANGE, COURSING, MORTAR COLOR AND JOINT STYLE. MOCK UP SHALL BE APPROVED BY THE OWNER BEFORE MASONRY WORK ON BUILDING COMMENCES.

1.2 PROJECT CONDITIONS

A. PROTECTION OF MASONRY: DURING ERECTION, COVER TOPS OF WALLS, PROJECTIONS, AND SILLS WITH WATERPRO (SHEETING) AT END OF EACH DAY'S WORK. COVER PARTIALLY COMPLETED MASONRY WHEN CONSTRUCTION IS NOT IN PROGRESS.

2.1 CONCRETE MASONRY UNITS

A. CONCRETE MASONRY UNITS: ASTM C 90 AND AS FOLLOWS:
  1. MANUFACTURER AND COLORS: AS INDICATED ON DRAWINGS.
  2. WEIGHT CLASSIFICATION: LIGHT WEIGHT (ABOVE GRADE) AND NORMAL WEIGHT (BELOW GRADE).
  3. SIZE: NOMINAL SIZES AS INDICATED ON DRAWINGS:
  4. FINISH: EXPOSED FACES MATCHING COLOR, PATTERN, AND TEXTURE OF APPROVED SAMPLES.
  5. REFERENCE SECTION 9900 FOR FINISH REQUIREMENTS.

2.2 MORTAR AND GROUT MATERIALS

A. PORTLAND CEMENT: ASTM C 150, TYPE I OR II. PROVIDE NATURAL COLOR OR WHITE CEMENT AS REQUIRED TO PRODUCE MORTAR COLOR TO MATCH MASONRY UNITS.
B. MASONRY CEMENT: ASTM C91.
C. HYDRATED LIME: ASTM C 207, TYPE S.
D. PORTLAND CEMENT-LIME MIX: PACKAGED BLEND OF PORTLAND CEMENT COMPLYING WITH ASTM C 150, TYPE I OR TYPE III, AND HYDRATED LIME COMPLYING WITH ASTM C 207.
E. AGGREGATE FOR MORTAR: ASTM C 144; EXCEPT FOR JOINTS LESS THAN 1/4 INCH, USE AGGREGATE GRADED WITH 100 PERCENT PASSING THE NO. 16 SEIVE.
F. AGGREGATE FOR GROUT: ASTM C 404.
G. ADMIXTURES: PROVIDE WATER REPELLANT ADD MIXTURES IN MASONRY BLOCK AND MORTAR FOR MASONRY THAT DOES NOT RECEIVED A PAINTED FINISH.
H. APPLY A LIQUID APPLIED WATER REPELLANT TO MASONRY THAT DOES NOT RECEIVE A PAINTED FINISH.
I. WATER: POTABLE.

2.3 REINFORCING STEEL

A. STEEL REINFORCING BARS: BILLET STEEL COMPLYING WITH ASTM A 615.

2.4 JOINT REINFORCEMENT

A. GENERAL: PROVIDE JOINT REINFORCEMENT FORMED FROM THE FOLLOWING:
  1. GALVANIZED CARBON-STEEL WIRE, COATING CLASS AS FOLLOWS: ASTM A 153, CLASS B-2, FOR EXTERIOR WALLS.
B. DESCRIPTION: WELDED-WIRE UNITS PREFABRICATED WITH DEFORMED CONTINUOUS SIDE RODS AND PLAIN CROSS RODS INTO STRAIGHT LENGTHS OF NOT LESS THAN 10 FEET, WITH PREFABRICATED CORNER AND TEE UNITS.
  1. PROVIDE LADDER TYPE DESIGN WITH SINGLE PAIR OF SIDE RODS AND PERPENDICULAR CROSS RODS SPACED NOT MORE THAN 16 INCHES O.C. WIRE DIAMETER FOR SIDE RODS AND CROSS RODS: 0.1483 INCH.

2.5 INSULATION

A. USE CORE-FILL 500 AS MANUFACTURERED BY TAILORED CHEMICAL PRODUCTS, 800.627.1687 OR APPROVED EQUAL.
B. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. FILL ALL OPEN CELLS AND VOIDS IN MASONRY. THE FOAM INSULATION SHALL BE PRESSURE INJECTED THROUGH A SERIES OF 5/8" TO 7/8" HOLES DRILLED INTO EVERY VERTICAL COLUMN OF BLOCK CELLS (EVERY 8" ON CENTER) BEGINNING AT AN APPROXIMATE HEIGHT OF FOUR (4) FEET FROM FINISHED FLOOR LEVEL. REPEAT THE PROCEDURE AT APPROX. HEIGHT OF 10 FEET ABOVE THE FIRST HORIZONTAL ROW OF HOLES (OR AS NEEDED) UNTIL THE VOID IS COMPLETELY FILLED. PATCH HOLES WITH MORTAR AND SCORE TO RESEMBLE EXISTING SURFACE.

2.6 MORTAR AND GROUT MIXES

A. GENERAL: DO NOT USE ADMIXTURES, AIR-ENTRAINING AGENTS, ACCELERATORS, RETARDERS, WATER-REPELLENT AGENTS, ANTIFREEZE COMPOUNDS, OR OTHER ADMIXTURES FOR MASONRY THAT WILL RECEIVE A PAINTED FINISH UNLESS OTHERWISE

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EQUIPMENTSHARE - LAKE CITY, FL

US-90 & PRICE CREEK ROAD
LAKE CITY, FLORIDA

JOB NUMBER: 2023.0377

ISSUE BLOCK		
	OTP	08.11.2023

CHECKED BY: SJB
DRAWN BY: HLB
DOCUMENT DATE: 11.06.2023

12.09.2024

DOCUMENTS WITHOUT AN ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

CONST.
SPECS.

SHEET:
CS1.0

INDICATED.
1. DO NOT USE CALCIUM CHLORIDE IN MORTAR OR GROUT.
B. MORTAR FOR UNIT MASONRY: COMPLY WITH ASTM C 270, PROPORTION SPECIFICATION, FOR TYPE S. THOROUGHLY MIX MORTAR INGREDIENTS IN ACCORDANCE WITH ASTM C270, IN QUANTITIES NEEDED FOR IMMEDIATE USE.
1. MAINTAIN SAND UNIFORMLY DAMP IMMEDIATELY BEFORE THE MIXING PROCESS.
2. PROVIDE UNIFORMITY OF MIX AND COLORATION.
3. IF WATER IS LOST BY EVAPORATION, RETEMPER ONLY WITHIN 2 HOURS OF MIXING. DO NOT RETEMPER MORTAR MORE THAN (2) HOURS AFTER MIXING.
C. GROUT FOR UNIT MASONRY: COARSE GROUT (3/8" DIAMETER (MAX) AGGREGATE), IN ACCORDANCE WITH ASTM C476.
1. COMPRESSIVE STRENGTH: 2000 PSI (MIN) AT 28 DAYS, AS DETERMINED IN ACCORDANCE WITH ASTM C1019.
2. SLUMP: 8 INCHES, MINIMUM; 10 INCHES, MAXIMUM, TAKEN IN ACCORDANCE WITH ASTM C143.

SECTION 04210 - VENEER MASONRY

1.1 SUBMITTALS
A. INITIAL SAMPLES FOR VERIFICATION:
1. FULL-SIZED UNITS FOR EACH DIFFERENT EXPOSED MASONRY UNIT REQUIRED SHOWING THE FULL RANGE OF COLOR, TEXTURE AND DIMENSIONS TO BE EXPECTED IN THE FINISHED CONSTRUCTION.
2. COLORED MASONRY MORTAR SAMPLES FOR EACH COLOR REQUIRED SHOWING THE FULL RANGE OF COLORS TO BE EXPECTED IN THE FINISHED CONSTRUCTION.
B. MOCK UP (WHEN INDICATED ON DRAWINGS): REFER TO DRAWINGS FOR MOCK UP ELEVATION. MOCK UP SHALL REPRESENT ALL ASPECTS OF THE MASONRY SYSTEM INCLUDING ALL MASONRY TYPES, COLOR RANGE, COURSING, MORTAR COLOR AND JOINT STYLE. MOCK UP SHALL BE APPROVED BY THE ARCHITECT BEFORE MASONRY WORK ON BUILDING COMMENCES.

2.1 MASONRY VENEER
A. BRICK: AS INDICATED ON DRAWINGS.
B. STONE: AS INDICATED ON DRAWINGS.
C. CUT LIMESTONE: AS INDICATED ON DRAWINGS.

2.2 MORTAR
A. READY-MIX MORTAR: CEMENTITIOUS MATERIALS, WATER, AND AGGREGATE COMBINED WITH SET-CONTROLLING ADMIXTURES TO PRODUCE A READY-MIXED MORTAR COMPLYING WITH ASTM C 1142.
1. PORTLAND CEMENT-LIME MIX: ASTM C150, TYPE I OR TYPE III AND HYDRATED LIME COMPLYING WITH ASTM C 207.
2. MORTAR AGGREGATE: ASTM C 144, EXCEPT FOR JOINTS LESS THAN 1/4 INCH, USE AGGREGATE GRADED WITH 100 PERCENT PASSING THE NO. 16 SIEVE.
3. COLOR: AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARDS.
B. EPOXY POINTING MORTAR: ASTM C 395, EPOXY-RESIN-BASED MATERIAL FORMULATED FOR USE AS POINTING MORTAR.
C. WATER: POTABLE.

2.3 ACCESSORIES
A. FLASHING:
1. SHEET METAL FLASHING: AS SPECIFIED IN SECTION 07620 AND AS INDICATED.
2. RUBBERIZED ASPHALT SHEET FLASHING: PERM-A-BARRIER BY W.R. GRACE, OR EQUAL. PROVIDE WITH MANUFACTURER'S RECOMMENDED PRODUCT FOR BONDING FLASHING SHEETS.
B. MASONRY TIES: ADJUSTABLE TWO-PIECE TYPE WITH TIES EXTENDING INTO FACING WYTHE. TIES SHALL EXTEND AT LEAST HALF-WAY INTO FACING WYTHE WITH AT LEAST 5/8 INCH MORTAR COVER ON OUTSIDE FACE. CORRUGATED TIES ARE NOT ACCEPTABLE.
C. EXPANSION JOINTS: PREFORMED NEOPRENE.
D. WEEPS: WICKING MATERIAL TO BE COTTON SASH CORD OR FIBROUS GLASS ROPE.
E. VAPOR-RETARDING COATING: SONNEBORN HYDROCIDE 700B OR APPROVED EQUAL.
F. ADJUSTABLE MASONRY VENEER ANCHOR: 2-PIECE ASSEMBLY ALLOWING VERTICAL AND HORIZONTAL DIFFERENTIAL MOVEMENT BETWEEN WALL FRAMING AND VENEER BUT RESISTING 100 LBF TENSION AND COMPRESSION FORCES PERPENDICULAR TO ATTACH OVER SHEATHING TO STRUCTURE.
G. CAVITY DRAINAGE MATERIAL: 1 INCH THICK, RETICULATED, NONABSORBENT MESH BY MORTAR NET. MAINTAIN DRAINAGE AT WEEP HOLES WITHOUT BEING CLOGGED BY MORTAR DROPPINGS.

3.1 INSTALLATION
A. PLACE MASONRY TO LINES AND LEVELS INDICATED ON DRAWINGS.
1. SECURE WALL TIES FOR VENEER IN BACK-UP AT A MAXIMUM 16 INCHES O.C. VERTICALLY AND 24 INCHES O.C. HORIZONTALLY.
2. LAY MASONRY IN A FULL BED OF MORTAR FULLY BUTTERING CORNERS AND HEAD JOINTS.
3. MORTAR JOINTS: CONCAVE STYLE UNLESS NOTED OTHERWISE.
4. INSTALL WEEP HOLES IN VENEER AT 32 INCHES O.C. HORIZONTALLY ABOVE THRU-WALL FLASHINGS, ABOVE SHELF ANGLES, AND AT BOTTOM OF WALLS.
5. FLASHING: EXTEND FLASHINGS THROUGH VENEER, TURN UP MINIMUM 8 INCHES AND SEAL. LAP END JOINTS MINIMUM 6 INCHES AND SEAL WATERTIGHT.
A. DO NOT TRIM EXPOSED THROUGH WALL FLASHING UNTIL AFTER APPLICABLE INSPECTIONS INCLUDING THOSE BY THE ARCHITECT IF NECESSARY.
6. BUILT-IN WORK: AS WORK PROGRESSES, BUILD IN FABRICATED METAL FRAMES, LINTELS, WINDOW FRAMES, ANCHOR BOLTS, AND PLATES.
B. CLEANING: KEEP FACE OF MASONRY BRUSHED CLEAN OF MORTAR AS WORK IS LAID UP. USE SURE CLEAN OR OTHER MASONRY CLEANER RECOMMENDED BY BRICK MANUFACTURER FOR FINAL CLEANING.

SECTION 05500 - MISCELLANEOUS METALS

1.1 SUBMITTALS
A. SHOP DRAWINGS DETAILING FABRICATION OF HAND RAIL AND GUARDRAIL SYSTEM.
1. INCLUDE DETAILS OF CUTS, CONNECTIONS, SPLICES, CAMBER, HOLES, AND OTHER PERTINENT DATA.
2. INDICATE WELDS BY STANDARD AWS SYMBOLS, DISTINGUISHING BETWEEN SHOP AND FIELD WELDS, AND SHOW SIZE, LENGTH, AND TYPE OF EACH WELD.
3. INDICATE CONNECTION TO ADJACENT MATERIALS AND TO STRUCTURE AS APPROPRIATE.
4. ALL HANDRAILS AND GUARDRAILS SHALL BE ENGINEERED AND DETAILED TO WITHSTAND THE LOADS REQUIRED BY CODE. THE FABRICATOR SHALL PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.

2.1 MATERIALS
A. WELDING MATERIALS: AWS D1.1 AND AWS D1.3 TYPE REQUIRED FOR MATERIALS BEING WELDED.
B. FASTENERS: PROVIDE BOLTS, NUTS, LAG BOLTS, MACHINE SCREWS, WOOD SCREWS, TOGGLE BOLTS, LOCK WASHERS, CLIPS, AND OTHER FASTENERS AS REQUIRED FOR APPLICATION INDICATED.
1. BOLTS, NUTS, AND WASHERS: ASTM A 325 AND ASTM A 307.
2. PROVIDE EXPOSED FASTENERS OF THE SAME MATERIAL, COLOR, AND FINISH AS THE METAL BEING FASTENED.
3. PROVIDE CONCEALED FASTENERS WHICH ARE COMPATIBLE WITH MATERIAL AND SUBSTRATE AND DO NOT PROMOTE GALVANIC OR ELECTROLYTIC CORROSIVE EFFECTS.
C. ANCHORS AND INSERTS: FURNISH AS REQUIRED FOR INSTALLATION IN OTHER WORK. USE CADMIUM PLATED OR GALVANIZED ANCHORS AND INSERTS FOR EXTERIOR WORK.
D. NONSHRINK, NONMETALLIC GROUT: FACTORY-PACKAGED, NONSTAINING, NONCORROSIVE, NONGASEOUS GROUT COMPLYING WITH ASTM C 1107. PROVIDE GROUT SPECIFICALLY RECOMMENDED BY MANUFACTURER FOR INTERIOR AND EXTERIOR APPLICATIONS. EPOXY GROUT FOR RAILINGS: HILTI HIGH STRENGTH EPOXY GROUT, CG500EP.
E. SHOP PRIMER FOR FERROUS METAL: FAST-CURING, LEAD- AND CHROMATE-FREE, UNIVERSAL MODIFIED-ALKYD PRIMER COMPLYING WITH PERFORMANCE REQUIREMENTS OF FS TT-P-664, SELECTED FOR GOOD RESISTANCE TO NORMAL ATMOSPHERIC CORROSION, COMPATIBILITY WITH FINISH PAINT SYSTEMS INDICATED, AND CAPABILITY TO PROVIDE A SOUND FOUNDATION FOR FIELD-APPLIED TOPCOATS DESPITE PROLONGED EXPOSURE.
F. GALVANIZING REPAIR PAINT: HIGH-ZINC-DUST-CONTENT PAINT FOR REGALVANIZING WELDS IN GALVANIZED STEEL, WITH DRY FILM CONTAINING NOT LESS THAN 94 PERCENT ZINC DUST BY WEIGHT, AND COMPLYING WITH ASTM A780 OR SSPC-PAINT 20.

2.2 FABRICATION
A. CLEAN AND DRESS ALL EXPOSED WELDS. MILL JOINTS TO TIGHT HAIRLINE FIT; COPE OR MITER CORNERS.
B. PREASSEMBLE ITEMS IN THE SHOP TO THE GREATEST EXTENT POSSIBLE, MINIMIZING FIELD SPLICING AND ASSEMBLY OF UNITS AT THE PROJECT SITE.
C. WELDING:
1. WELD CORNERS AND SEAMS CONTINUOUSLY TO COMPLY WITH AWS RECOMMENDATIONS. USE MATERIALS AND METHODS THAT MINIMIZE DISTORTION AND DEVELOP STRENGTH AND CORROSION RESISTANCE OF BASE METALS. OBTAIN FUSION WITHOUT UNDERCUT OR OVERLAP. REMOVE WELDING FLUX IMMEDIATELY.
2. FINISH EXPOSED WELDS AND SURFACES SMOOTH AND BLENDED SO THAT NO ROUGHNESS SHOWS AFTER FINISHING AND CONTOUR OF WELDED SURFACE MATCHES THOSE ADJACENT.
D. FABRICATED ITEMS: FABRICATED ITEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING. PROVIDE MISCELLANEOUS METAL FABRICATIONS AS REQUIRED TO COMPLETE THE ENTIRE WORK.
1. HANDRAILS AND GUARDRAILS: COLD ROLLED STEEL IN SHAPES AND DIMENSIONS INDICATED ON DRAWINGS.
2. EXTERIOR BOLLARDS: SCHEDULE 40 STEEL PIPE FILLED WITH CONCRETE AND ROUNDED CONCRETE CAP. REFER TO DRAWINGS FOR EMBEDMENT, EXPOSURE, AND STUD ANCHORS.

2.3 FINISHES
A. COMPLY WITH NAAMM "METAL FINISHES MANUAL" FOR APPLICATION AND DESIGNATION OF FINISHES. PROTECT FINISHED METAL ITEMS. APPLY A BITUMINOUS PAINT OF APPROXIMATELY 0.75 MM DRY FILM THICKNESS, OR OTHER SUITABLE PERMANENT SEPARATOR, ON CONCEALED CONTACT SURFACES OF DISSIMILAR MATERIALS, BEFORE ASSEMBLY AND INSTALLATION, WHERE THERE IS THE POSSIBILITY OF CORROSIVE OR ELECTROLYTIC ACTION.
1. GALVANIZING: ASTM A 123, ASTM A153, OR ASTM A386 AS APPLICABLE.

3.1 INSTALLATION
A. WHERE CUTTING, WELDING AND GRINDING ARE REQUIRED FOR PROPER FITTING AND JOINTING OF ORNAMENTAL METAL RESTORE FINISHES TO ELIMINATE ANY EVIDENCE OF SUCH CORRECTIVE WORK.
1. TOUCH-UP SHOP FINISH AFTER INSTALLATION. CLEAN FIELD WELDS, BOLTED CONNECTIONS AND ABRADED AREAS, AND APPLY SAME TYPE PAINT AS USED IN SHOP.
2. USE GALVANIZING REPAIR PAINT ON DAMAGED GALVANIZED SURFACES IN ACCORDANCE WITH ASTM A780.

SECTION 06100 - ROUGH CARPENTRY

2.1 MATERIALS
A. WOOD PRESERVATIVE TREATED MATERIALS: WHERE LUMBER OR PLYWOOD IS INDICATED AS PRESERVATIVE TREATED, COMPLY WITH APPLICABLE REQUIREMENTS OF AWPA C2 (LUMBER) AWPA C9 (PLYWOOD). MARK EACH TREATED ITEM WITH THE QUALITY MARK REQUIREMENTS OF AN INSPECTION AGENCY APPROVED BY ALSC'S BOARD OF REVIEW.
B. PRESSURE TREAT ABOVE GROUND ITEMS WITH WATERBOURNE PRESERVATIVES TO A MINIMUM RETENTION OF 0.25 LB/CUBIC FEET. AFTER TREATMENT, KILN DRY LUMBER AND PLYWOOD TO A MAXIMUM MOISTURE CONTENT OF 19 AND 15 PERCENT RESPECTIVELY. TREAT INDICATED ITEMS AND THE FOLLOWING:
1. WOOD CANTS, NAILERS, CURBS, EQUIPMENT SUPPORT BASES, BLOCKING, STRIPPING AND SIMILAR MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
2. WOOD SILLS, SLEEPERS, BLOCKING, FURRING STRIPPING, AND SIMILAR MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
3. IF MEMBERS ARE CUT AFTER TREATMENT, APPLY FIELD TREATMENT COMPLYING WITH AWPA M4 TO CUT SURFACES. PRESERVATIVE TREATMENT BY PRESSURE PROCESS: AWPA C2, EXCEPT THAT LUMBER THAT IS NOT IN CONTACT WITH THE GROUND AND IS CONTINUOUSLY PROTECTED FROM LIQUID WATER MAY BE TREATED ACCORDING TO AWPA C31 WITH INORGANIC BORON (SBX).
C. PRESERVATIVE CHEMICALS: ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND CONTAINING NO ARSENIC OR CHROMIUM. PROVIDE FIRE RETARDANT TREATED BLOCKING AT LOCATIONS ON THE INTERIOR OF THE BUILDING.

2.2 MISCELLANEOUS LUMBER
A. GENERAL: PROVIDE LUMBER FOR SUPPORT OR ATTACHMENT OF OTHER CONSTRUCTION, INCLUDING ROOFTOP EQUIPMENT CURBS AND SUPPORT BASES, CANT STRIPS, BUCKS, NAILERS, BLOCKING, FURRING, GROUNDS, STRIPPING, AND SIMILAR MEMBERS.
B. MOISTURE CONTENT: 19 PERCENT MAXIMUM FOR LUMBER ITEMS NOT SPECIFIED TO RECEIVE WOOD PRESERVATIVE TREATMENT.
C. GRADE: FOR DIMENSION LUMBER SIZES, PROVIDE NO. 3 OR STANDARD GRADE LUMBER PER ALSC'S NGR'S OF ANY SPECIES. FOR BOARD-SIZE LUMBER, PROVIDE NO. 3 COMMON GRADE PER NELMA, NLGA, OR WWPA; NO. 2 GRADE PER SPIB; OR STANDARD GRADE PER NLGA, WCLIB OR WWPA OF ANY SPECIES.
D. FOR THE FOLLOWING WOOD PRODUCTS, PROVIDE MATERIALS PRODUCED FROM WOOD FROM NON-TROPICAL FORESTS:
1. PLYWOOD.
E. PROVIDE FIRE RETARDANT, TREATED PLYWOOD OR 18 GAUGE SHEET METAL FOR BLOCKING AT LOCATIONS ON THE INTERIOR OF THE BUILDING.

2.3 FASTENERS
A. GENERAL: PROVIDE FASTENERS OF SIZE AND TYPE INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIED IN THIS ARTICLE OR MATERIAL AND MANUFACTURER. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT OR IN AN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH A HOT-DIP ZINC COATING PER ASTM A153 OR OF TYPE 304 STAINLESS STEEL.
B. NAILS, BRADS AND STAPLES FS FF-N-105.
C. POWER DRIVEN FASTENERS: REFER TO TABLE 2304.9.1 "FASTENING SCHEDULE" PER BUILDING CODE LISTED ON CVR - COVER SHEET
D. WOOD SCREWS ASME B1fT6/L
E. LAG BOLTS: ASME B18.2.1.
F. BOLTS: STEEL BOLTS COMPLYING WITH ASTM A 307, GRADE A WITH ASTM A563 HEX NUTS AND FLAT WASHERS.

3.1 INSTALLATION
A. SET ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, CUT, AND FITTED.
B. FIT ROUGH CARPENTRY TO OTHER CONSTRUCTION; SCRIBE AND COPE AS REQUIRED FOR ACCURATE FIT. CORRELATE LOCATION OF FURRING, NAILERS, BLOCKING, GROUNDS, AND SIMILAR SUPPORTS TO ALLOW ATTACHMENT OF OTHER CONSTRUCTION.
C. SECURELY ATTACH ROUGH CARPENTRY TO SUBSTRATE BY ANCHORING AND FASTENING AS INDICATED, COMPLYING WITH THE FOLLOWING:
1. REFER TO TABLE 2304.9.1 IN THE ICC'S INTERNATIONAL BUILDING CODE FOR POWER DRIVEN STAPLES, P-NAILS, AND ALLIED FASTENERS.
2. “PUBLISHED REQUIREMENTS OF METAL FRAMING ANCHOR MANUFACTURER.
3. "RECOMMENDED NAILING SCHEDULE" OF REFERENCED FRAMING STANDARD AND WITH THE AFPA'S "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION".
4. "TABLE 2304.9.1 - FASTENING SCHEDULE IN THE ICC'S INTERNATIONAL BUILDING CODE.
D. USE COMMON WIRE NAILS, UNLESS OTHERWISE INDICATED. USE FINISHING NAILS FOR FINISH WORK. SELECT FASTENERS OF SIZE THAT WILL NOT FULLY PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR WILL RECEIVE FINISH MATERIALS. MAKE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING WOOD; PREDRILL AS REQUIRED.

3.2 WOOD GROUNDS, NAILERS, BLOCKING AND SLEEPERS
A. INSTALL WOOD GROUNDS, NAILERS, BLOCKING AND SLEEPERS WHERE SHOWN AND WHERE REQUIRED FOR SCREENING AND ATTACHING OTHER WORK. FORM TO SHAPES SHOWN AND CUT AS REQUIRED FOR TRUE LINE AND LEVEL OF ATTACHED WORK. COORDINATE LOCATIONS WITH OTHER WORK INVOLVED.
B. ATTACH TO SUBSTRATES TO SUPPORT APPLIED LOADING. RECESS BOLTS AND NUTS FLUSH WITH SURFACES, UNLESS OTHERWISE INDICATED. BUILD INTO MASONRY DURING INSTALLATION MASONRY WORK.
C. INSTALL PERMANENT GROUNDS OF DRESSED, PRESERVATIVE TREATED, KEY-BEVELED LUMBER NOT LESS THAN 1-1/2 INCHES WIDE AND OF THICKNESS REQUIRED TO BRING FACE OF GROUND TO EXACT THICKNESS OF FINISH MATERIAL. REMOVE TEMPORARY GROUNDS WHEN NO LONGER REQUIRED.

SECTION 06400 - FINISH CARPENTRY

2.1 MATERIALS
A. PROVIDE MATERIALS THAT COMPLY WITH REQUIREMENTS OF THE AWI QUALITY STANDARD FOR CUSTOM GRADE FOR EACH TYPE OF WOODWORK INDICATED:
1. MEDIUM DENSITY FIBERBOARD (MDF) WAINSCOT: LOCATIONS AND DIMENSIONS AS INDICATED ON DRAWINGS.
2. FIBER REINFORCED PLASTIC PANELS:
a. MANUFACTURER: KEMLITE.
b. PATTERN AND COLOR: AS INDICATED ON DRAWINGS.
3. SLATWALL:
a. COLOR AND PATTERN: AS INDICATED ON DRAWINGS.
4. PLASTIC LAMINATES:
a. COLOR AND PATTERN: AS INDICATED ON DRAWINGS.

3.1 INSTALLATION
A. INSTALL FINISH CARPENTRY WORK PLUMB, LEVEL, TRUE, AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS. SCRIBE AND CUT FINISH CARPENTRY ITEMS TO FIT ADJOINING WORK. PERFORM WORK IN ACCORDANCE WITH AWI CUSTOM GRADE QUALITY.
B. INSTALL FINISH CARPENTRY WITH MINIMUM NUMBER OF JOINTS AS POSSIBLE, USING FULL LENGTH FROM MAXIMUM LENGTH OF MATERIALS AVAILABLE.
C. REFINISH CUT SURFACES OR REPAIR DAMAGED FINISH AT CUTS.
D. ANCHOR FINISH CARPENTRY TO ANCHORS OR BLOCKING BUILT IN OR DIRECTLY ATTACHED TO SUBSTRATES. SECURE TO GROUNDS, STRIPPING AND BLOCKING WITH COUNTERSUNK, CONCEALED FASTENERS AND BLIND NAILING AS REQUIRED FOR COMPLETE INSTALLATION. USE FINISHING NAILS FOR EXPOSED NAILING. ALL COUNTERSUNK FASTENERS SHALL BE FILLED FLUSH AND SHALL MATCH FINAL FINISH WHERE TRANSPARENT FINISH IS REQUIRED.
E. PAINT, STAIN, AND SEALER: SAND FINISH ALL EXPOSED WOOD SURFACES TO RECEIVE PAINT, STAIN, OR SEALER. APPLY PAINT, STAIN OR SEALER IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE TWO (2) COATS MINIMUM ON ALL WOOD USED IN MILLWORK CONSTRUCTION INCLUDING TOE-KICKS AND SCRIBES.
F. FRP PANELING AND PLASTIC LAMINATES: COMPLY WITH THE PANELING MANUFACTURER'S INSTRUCTIONS USING ADHESIVE AS APPROPRIATE TO TYPE OF SUBSTRATE PROVIDED.
G. PROVIDE MANUFACTURER RECOMMENDED TRIM, BATTENS, CORNER AND EDGE PROTECTION ON FRP PANELS.

SECTION 07210 - BUILDING INSULATION

1.1 SUBMITTALS
A. PRODUCT TEST REPORTS.
B. RESEARCH/EVALUTATION REPORTS FOR FOAM-PLASTIC INSULATION.

2.1 MATERIALS
A. BATT INSULATION: TO ACHIEVE A DESIGN R VALUE OF 19, UNFACED FIBERGLASS COMPLYING WITH ASTM C 665, OF WIDTHS TO COMPLETELY FILL VOID FORMED BY FRAMING MEMBERS.
B. SILL GASKET: AMOCO SILL SEALER BY TENNECO BUILDING PRODUCTS (800) 241-4402.
C. SOUND ATTENUATION BATTS: 3-1/2 INCHES UNFACED. WIDTHS TO COMPLETELY FILL VOIDS FORMED BY FRAMING MEMBERS.
D. FREEZER FOUNDATION INSULATION: PROVIDE DOW CHEMICAL COMPANY STYROFOAM BRAND FREEZERMATE EXTRUDED POLYSTYRENE FOAM INSULATION OR APPROVED EQUAL. PRODUCT SHALL BE EXTRUDED-POLYSTRENE BOARD INSULATION; TYPE IV, ASTM C578. MINIMUM COMPRESSIVE STRENGTH 25 PSI.
E. VINYL REINFORCED INSULATION AT METAL BUILDING R PANEL ROOF SYSTEM SHALL BE MINUMUM R-19. COMPLY WITH ASTM E84, ASTM D1910, ASTM D781.

3.1 INSTALLATION
A. BATT INSULATION: FIT INSULATION SNUGLY BETWEEN FRAMING WITH A FRICTION FIT. LEAVE NO VOIDS. INSTALL THERMAL INSULATION AT EXTERIOR WALLS WHERE INDICATED.
1. EXTEND INSULATION FULL THICKNESS OVER ENTIRE SURFACE TO BE INSULATED TO PROVIDE AN UNINTERRUPTED THERMAL BARRIER.
2. INSULATE IRREGULARLY SHAPED AREAS BETWEEN CLOSELY SPACED FRAMING MEMBERS WITH CUT-TO-FIT INSULATION.
B. SILL-SEALER GASKETS: GLASS-FIBER-RESILIENT INSULATION, FABRICATED IN STRIP FORM, FOR USE AS A SILL SEALER; 1-INCH NOMINAL THICKNESS, COMPRESSIBLE TO 1/32 INCH; SELECTED FROM MANUFACTURER'S STANDARD WIDTHS TO SUIT WIDTH OF SILL MEMBERS INDICATED.
C. PRIOR TO CLOSING-IN OF INSULATED ASSEMBLIES, OR PRIOR TO SUBSTANTIAL COMPLETION FOR INSULATION THAT WILL REMAIN EXPOSED IN THE BUILDING, REFIT, REINSTALL AND/OR REPLACE DAMAGED AND DISPLACED INSULATION.

SECTION 07240 - EXTERIOR INSULATION FINISH SYSTEM (EIFS)

1.1 SUBMITTALS
A. PROVIDE COMPLETE SUBMITTAL INCLUDING THE FOLLOWING:
1. PRODUCT DATA: MANUFACTURER'S SPECIFICATIONS, DETAILS, INSTALLATION INSTRUCTIONS, AND PRODUCT DATA.
2. MOCK UP (WHEN INDICATED ON DRAWINGS): REFER TO DRAWINGS FOR MOCK UP ELEVATION. MOCK UP SHALL REPRESENT COLOR AND TEXTURE RANGE FOR APPROVAL BY ARCHITECT.

2.1 MATERIALS
A. OUTSULATION MD SYSTEM AS MANUFACTURED BY DRYVIT SYSTEM, INC.
1. PROVIDE PANZER 20 HIGH IMPACT REINFORCING MESH (OR EQUAL) TO 6 FEET ABOVE FINISH FLOOR LINE OR AS OTHERWISE INDICATED ON DRAWINGS.
2. PROVIDE STANDARD PLUS (OR EQUAL) MEDIUM IMPACT REINFORCING MESH AT ALL OTHER AREAS.
B. SHEATHING: 5/8 INCH DENSGLASS GOLD AS MANUFACTURED BY GEORGIA PACIFIC.
C. FINISH: MEDIUM SAND.

3.1 INSTALLATION
A. COMPLY WITH EIFS MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATION OF EIFS AS APPLICABLE FOR EACH TYPE OF SUBSTRATE APPLICATION.
B. BOARD INSULATION: EXPANDED POLYSTYRENE AS RECOMMENDED BY EIFS SYSTEM MANUFACTURER. THICKNESS AND SHAPES AS INDICATED ON DRAWINGS.
C. EXPANSION JOINTS: INSTALL AT LOCATIONS INDICATED ON DRAWINGS OR WHERE REQUIRED BY EIFS MANUFACTURER. PROVIDE EXPANSION JOINTS WHERE INDICATED IN EIFS SUBSTRATE AND WHERE EIFS ADJOINS DISSIMILAR SUBSTRATE MATERIALS, OR WHERE WALL HEIGHT CHANGES.
D. BASE COAT: APPLY TO EXPOSED SURFACES OF INSULATION IN MINIMUM THICKNESS RECOMMENDED IN WRITING BY EIFS MANUFACTURER, BUT NOT LESS THAN 1/16 INCH DRY COAT THICKNESS.
E. REINFORCING MESH: COMPLETELY EMBED MESH IN WET BASE COAT, APPLYING ADDITIONAL BASE COAT MATERIAL AS NEEDED SO REINFORCING MESH AND PATTERN ARE NOT VISIBLE.
F. FINISH COAT: APPLY OVER BASE COAT MAINTAINING A WET EDGE AT ALL TIMES FOR UNIFORM APPEARANCE IN THICKNESS RECOMMENDED BY EIFS MANUFACTURER TO PROVIDE A UNIFORM FINISH AND TEXTURE MATCHING APPROVED SAMPLE AND FREE OF COLD JOINTS, SHADOW LINES AND TEXTURE VARIATIONS.
G. ONE-COAT STUCCO WALL SYSTEM TO BE PAINTED TO MATCH ADJACENT SURFACES OR AS NOTED.

SECTION 07410 - METAL ROOF AND WALL PANELS

1.1 SUBMITTALS
A. PROVIDE COMPLETE SUBMITTAL INCLUDING THE FOLLOWING:
1. PRODUCT DATA: MANUFACTURER'S SPECIFICATIONS, DETAILS, INSTALLATION INSTRUCTIONS, AND PRODUCT DATA.
2. MOCK UP (WHEN INDICATED ON DRAWINGS): REFER TO DRAWINGS FOR MOCK UP ELEVATION. MOCK UP SHALL REPRESENT COLOR AND PANEL PROFILE FOR APPROVAL BY ARCHITECT.

1.2 WARRANTY
A. SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF METAL ROOF PANEL ASSEMBLIES THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.
1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
a. STRUCTURAL FAILURES, INCLUDING RUPTURING, CRACKING, OR PUNCTURING.
b. DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.
2. WARRANTY PERIOD: ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
B. SPECIAL WARRANTY ON PANEL FINISHES: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR FINISH OR REPLACE METAL ROOF PANELS THAT SHOW EVIDENCE OF DETERIORATION OF FACTORY-APPLIED FINISHES WITHIN SPECIFIED WARRANTY PERIOD.
1. FLUOROPOLYMER FINISH WARRANTY PERIOD: 20 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

2.1 METAL ROOF PANELS
A. STANDING-SEAM METAL ROOF PANELS: FACTORY-FORMED, DESIGNED TO BE FIELD ASSEMBLED BY LAPPING AND INTERCONNECTING RAISED SIDE EDGES OF ADJACENT PANELS WITH JOINT TYPE INDICATED AND MECHANICALLY ATTACHING PANELS TO SUPPORTS USING CONCEALED CLIPS IN SIDE LAPS. INCLUDE CLIPS, CLEATS, PRESSURE PLATES, AND ACCESSORIES REQUIRED FOR WEATHERTIGHT INSTALLATION.
1. STEEL PANEL SYSTEMS: COMPLY WITH ASTM E 1514. MBCI SUPERLOK CLASS I-90. BERRIDGE MANUFACTURING COMPANY.
2. TYPE: VERTICAL RIB, SEAMED JOINT AS INDICATED ON DRAWINGS.
3. MATERIAL: METALLIC-COATED STEEL SHEET, 24 GAUGE, a. EXTERIOR FINISH: FLUOROPOLYMER.
4. CLIPS: FLOATING TO ACCOMMODATE THERMAL MOVEMENT, a. MATERIAL: METALLIC-COATED-STEEL SHEET.
5. JOINT TYPE: AS STANDARD WITH MANUFACTURER.
6. PANEL COVERAGE: 16 INCH.
7. PANEL HEIGHT: 2 INCH.
8. UPLIFT RATING: AS NOTED ON STRUCTURAL DRAWINGS.
9. SOLAR REFLECTANCE INDEX (SRI) EQUAL TO OR GREATHER THAN 29.
10. LOCATION: AS INDICATED ON DRAWINGS.
11. FINISH: AS INDICATED ON DRAWINGS.
B. MBCI "PBR" PANEL, 24 GAUGE OR EQUAL.
1. LOCATION: AS INDICATED ON DRAWINGS.
2. FINISH: AS INDICATED ON DRAWINGS.

2.2 METAL WALL PANELS
A. MANUFACTURERED BY MBCI, 24 GAUGE, OR EQUAL.
1. PROFILE: AS INDICATED ON DRAWINGS.
2. LOCATION: AS INDICATED ON DRAWINGS.
3. FINISH: PRE-FINISHED GALVALUME, UNLESS OTHERWISE INDICATED ON DRAWINGS.
4. SHEATHING: 1/2" FIRE RETARDANT PLYWOOD AT VERTICAL ORIENTED PANELS.

3.1 INSTALLATION
A. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

SECTION 07540 - THERMOPLASTIC SINGLE-PLY MEMBRANE ROOFING (TPO)

2.1 WARRANTY
A. STANDARD ROOFING MANUFACTURER'S WARRANTY: SUBMIT A WRITTEN WARRANTY, WITHOUT MONETARY LIMITATION, SIGNED BY THE ROOFING SYSTEM MANUFACTURER AGREEING TO PROMPTLY REPAIR LEAKS IN THE ROOF MEMBRANE AND BASE FLASHINGS RESULTING FROM DEFECTS IN MATERIALS OR WORKMANSHIP FOR A WARRANTY PERIOD OF 10 YEARS.
B. PROJECT WARRANTY: SUBMIT ROOFING INSTALLER'S WARRANTY, WITHOUT MONETARY LIMITATION, SIGNED BY THE ROOFING SYSTEM INSTALLER, COVERING THE WORK OF THIS SECTION, INCLUDING MEMBRANE ROOFING, BASE FLASHING, ROOFING INSULATION, AND FASTENERS FOR A WARRANTY PERIOD OF 2 YEARS.

2.1 SINGLE PLY ROOFING SYSTEM
A. PROVIDE SHEET MEMBRANE, BASE FLASHINGS AND COMPONENT MATERIALS THAT MEET WIND STANDARDS TO ASSURE ADEQUATE UPLIFT DESIGN FOR THE AREA AND CONDITIONS PRESENT.
B. THERMOPLASTIC POLYOLEFIN (TPO) BASED REINFORCED SHEET:
1. REINFORCEMENT: POLYESTER.
2. THICKNESS: 45 MILS MINIMUM POLYMER THICKNESS.
3. EXPOSED MEMBRANE COLOR: WHITE.
4. FIELD MEMBRANE ATTACHMENT: MECHANICALLY FASTENED. FULLY-ADHERED AT VERTICAL SURFACES. FLASHING MEMBRANE: SHEET FLASHING SHALL BE FIBERGLASS REINFORCED AND OF SAME MATERIAL, TYPE, THICKNESS AND COLOR AS TPO FIELD MEMBRANE.
6. INSULATION: REF ROOF PLAN SHEET FOR INSULATION R-VALUE REQUIREMENTS.
7. COVER BOARD:
a. DENS-DECK 1/4 INCH THICK OVER POLYISOCYAN URATE. STAGGER JOINTS BETWEEN POLYISOCYANURATE AND DENS-DECK.
b. DENS-DECK 1/2 INCH THICK AT VERTICAL ROOF SURFACES (PARAPET WALLS).
c. DENS-DECK 1/2 INCH THICK OVER METAL DECK WHERE NO POLYISOCYANURATE IS USED.
8. INCLUDE A SACRIFICIAL LAYER OF TPO SHEET MEMBRANE UNDER ROOFTOP UNITS.
9. PROVIDE SERVICE PADS AS INDICATED ON THE DRAWINGS AND AS RECOMMENDED AND FURNISHED BY THE MANUFACTURER.
10. PROVIDE ALL NECESSARY ACCESSORIES AS RECOMMENDED BY THE MEMBRANE MANUFACTURER.
11. SOLAR REFLECTANCE INDEX (SRI) EQUAL TO OR GREATER THAN 78.
C. MANUFACTURERS:
1. CARLISLE SURE-WELDSW.
2. GAF EVERGUARD TPO TSR-45.
3. JOHNS MANVILLE - JM TPO-45 MIL

3.1 EXAMINATION
A. ROOFING CONTRACTOR SHALL VERIFY CORRECT INSTALLATION OF INSULATION AND MINIMUM SLOPE REQUIREMENTS (1/4 INCH PER FOOT) FOR PROPER DRAINAGE.

3.2 INSTALLATION
A. ROOFING CONTRACTOR SHALL BE AUTHORIZED BY THE SPECIFIED ROOF MEMBRANE MANUFACTURER PRIOR TO BIDDING.
B. INSTALLATION OF INSULATION AND ROOFING SHALL BE ACCOMPLISHED IN SUCH A WAY THAT EACH AREA WILL BE COMPLETE AT THE END OF EACH DAY OF WORK.
C. APPLY TPO ROOFING AND FLASHING SYSTEM IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND THE CONTRACT DOCUMENTS.
D. APPROVED MEMBRANE AND INSULATION BOARD SHALL BE FULLY ATTACHED TO THE DECK .

SECTION 07620 - SHEET METAL FLASHING AND TRIM

2.1 MATERIALS
A. PROVIDE GALVANIZED SHEET METAL NECESSARY TO COMPLETE THE FOLLOWING WORK:
1. FLASHING AND COUNTER FLASHING, 24 GAUGE, OR AS OTHERWISE INDICATED ON DRAWINGS.
2. CAP FLASHING, 24 GAUGE.
3. GUTTERING, 20 GAUGE, AND DOWNSPOUTS, 24 GAUGE. UNPAINTED UNLESS NOTED OTHERWISE.

3.1 INSTALLATION
A. COMPLY WITH THE LATEST EDITION OF SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) ARCHITECTURAL SHEET METAL MANUAL AND SELECTED ROOFING MANUFACTURER'S REQUIREMENT.

SECTION 07720 - ROOF CURBS

2.1 MANUFACTURERS
A. ROOF PRODUCTS, INC.
B. APPROVED EQUALS:
1. AES INDUSTRIES, INC.

2.2 MATERIALS
A. 14 INCH RPC-3 PREFAB INSULATED CURB.

3.1 INSTALLATION
A. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

SECTION 07722 - ROOF HATCHES

2.1 MATERIALS
A. ROOF HATCH. TYPE L-20 STEEL COVER FRAME ROOF SCUTTLE FROM STAIR ACCESS, 30 INCHES WIDE BY 96 INCHES LONG, AS MANUFACTURED BY THE BILCO COMPANY. PROVIDE 16 INCH HIGH CURB.
B. ACCESSORIES: INTEGRATED SAFETY RAILING, BIL-GUARD, AS MANUFACTURED BY THE BILCO COMPANY.

SECTION 07920 - JOINT SEALANTS

2.1 MATERIALS
A. MOISTURE BARRIER: 6-MIL POLYETHYLENE SHEET MEMBRANE. PROVIDE MOISTURE BARRIER WITH 73% MINIMUM RECYCLE CONTENT, UNLESS OTHERWISE NOTED.
B. FLEXIBLE BASE FLASHING: 20-MIL SHEET VINYL WATER BARRIER.
C. FLASHING ADHESIVE: STIFF FIBERED MASTIC COMPATIBLE WITH FLEXIBLE MEMBRANE FLASHING.
D. JOINT BACKING: PROVIDE CLOSED CELL COMPRESSIBLE, NON-STAINING, NON-ROTTING JOINT BACKING PER SEALANT MANUFACTURER'S RECOMMENDATION.
E. CLOSED CELL EXPANDED RUBBER: MM SYSTEMS ELASTOPRENE CLOSED CELL EXPANDED RUBBER FOR USE AT WIDE GAPS WHERE INDICATED ON DRAWINGS.
F. MANUFACTURERS:
1. FLEXIBLE FLASHING: B.F. GOODRICH OR APPROVED EQUAL.
2. FLASHING ADHESIVE: PHILIP CAREY DUK-BAK #107.
3. SEALANTS FOR EXTERIOR AND INTERIOR EXPANSION AND CONTROL JOINTS: SONNEBORN NP-2 OR APPROVED EQUAL.
4. OTHER INTERIOR JOINT SEALANTS: DAP OR APPROVED EQUAL.

3.1 INSTALLATION
A. PROVIDE SEALANT FOR ALL EXTERIOR AND INTERIOR EXPANSION AND CONTROL JOINTS, WINDOW, CURTAINWALL, AND STOREFRONT SYSTEMS, AND MASONRY AND PRECAST CONSTRUCTION.
B. PROVIDE SEALANT ALONG PERIMETER OF ALL DOOR FRAMES, WINDOWS AND STOREFRONT.
C. PROVIDE CONTINUOUS MANUFACTURER RECOMMENDED EPOXY ANCHORING FOR APPLICATION OF CLOSED CELL EXPANDED RUBBER.

SECTION 08110 - STEEL DOORS AND FRAMES

1.1 SUBMITTALS
A. PROVIDE COMPLETE SUBMITTAL INCLUDING THE FOLLOWING:
1. MANUFACTURER'S DOOR AND FRAME PRODUCT DATA.
2. INDICATE LOCATION, SIZE, AND HAND OF EACH DOOR.
3. ELEVATION OF EACH TYPE OF DOOR AND FRAME.
4. INDICATE DIMENSIONS AND LOCATIONS OF MORTISES AND HOLES FOR HARDWARE.

2.1 MATERIALS
A. DOORS:
1. 1-3/4 INCH THICK 18 GAUGE FLUSH COLD-ROLLED SHEET, FLUSH STEEL PANELS, FACTORY PRIMED FOR FIELD PAINTING.
2. EXTERIOR DOORS GALVANIZED.
B. FRAMES:
1. FABRICATE FRAMES WITH MITERED OR COPED CORNERS, CONTINUOUSLY WELDED, 2 INCH THICK 16 GAUGE COLD-ROLLED STEEL SHEET.
2. GALVANIZED FRAMES IN PRECAST CONCRETE PANELS SHALL HAVE MASTIC INTERNAL COATING.
3. PROVIDE TWIST-IN OR WELDED METAL STUD TYPE FRAME ANCHORS. PROVIDE THROUGH BOLT ANCHORS AT FRAMES IN PRECAST WALLS.
4. SHIP FRAMES TO BE LOCATED IN PRECAST WALLS TO PRECAST PANEL SUPPLIER PRIOR TO CASTING OF PANELS.

2.2 FABRICATION
A. EXPOSED FASTENERS: UNLESS OTHERWISE INDICATED, PROVIDE COUNTERSUNK FLAT OR OVAL HEADS FOR EXPOSED SCREWS AND BOLTS.
B. HARDWARE PREPARATION: PREPARE DOORS AND FRAMES TO RECEIVE MORTISED AND CONCEALED HARDWARE ACCORDING TO DOOR HARDWARE SCHEDULE AND TEMPLATES PROVIDED BY HARDWARE SUPPLIER. COMPLY WITH APPLICABLE REQUIREMENTS OF SDI 107 AND ANSI A115 SERIES SPECIFICATIONS FOR DOOR AND FRAME PREPARATION FOR HARDWARE.
C. REINFORCE DOORS AND FRAMES TO RECEIVE SURFACE-APPLIED HARDWARE INCLUDING CLOSERS AND EXIT HARDWARE. DRILLING AND TAPPING FOR SURFACE-APPLIED HARDWARE MAY BE DONE AT PROJECT SITE.
D. LOCATE HARDWARE AS INDICATED OR, IF NOT INDICATED, ACCORDING TO THE DOOR AND HARDWARE INSTITUTE'S (DHI) "RECOMMENDED LOCATIONS FOR ARCHITECTURAL HARDWARE FOR STANDARD STEEL DOORS AND FRAMES" AND ADA REQUIREMENTS.
E. FRAMES TO BE FACE WELDED.

3.1 INSTALLATION
A. PRIME COAT TOUCHUP: IMMEDIATELY AFTER ERECTION, SAND SMOOTH ANY RUSTED OR DAMAGED AREAS OF PRIME COAT AND APPLY TOUCHUP OF COMPATIBLE AIR-DRYING PRIMER ON BOTH FRAMES AND DOORS.

SECTION 08411 - ALUMINUM STOREFRONTS

1.1 SUBMITTALS
A. PRODUCT DATA: FOR EACH PRODUCT SPECIFIED. INCLUDE DETAILS OF CONSTRUCTION RELATIVE TO MATERIALS, DIMENSIONS OF INDIVIDUAL COMPONENTS, PROFILES, AND FINISHES.
B. SHOP DRAWINGS: SHOW DETAILS OF FABRICATION AND INSTALLATION, INCLUDING PLANS, ELEVATIONS, SECTIONS, DETAILS OF COMPONENTS, PROVISIONS FOR EXPANSION AND CONTRACTION, AND ATTACHMENTS TO OTHER WORK.

2.1 MANUFACTURERS
A. KAWNEER; EFCO; VISTAWALL ARCHITECTURAL PRODUCTS; PPG ARCHITECTURAL METALS; TUBELITE; OLDCASTLE OR APPROVED EQUAL.
1. PRODUCT SYSTEM (STANDARD): KAWNEER TRIFAB 451 OR OLDCASTLE SERIES 3000 MULTIPLANE.
2. PRODUCT SYSTEM (AREAS INDICATED AS HURRICANE OR IMPACT RESISTANT: KAWNEER IR 501 OR OLDCASTLE FG-5100 STORMMAX.
3. DOOR: KAWNEER 350 STANDARD - PROVIDE AS REQUIRED TO ACCOMMODATE 1" INSULATED GLAZING.
B. THE DRAWINGS INDICATE SIZE, PROFILES, AND DIMENSIONAL REQUIREMENTS OF THE ALUMINUM STOREFRONT WINDOW SYSTEM AND ARE BASED ON THE SPECIFIC TYPE AND MODEL INDICATED. ALUMINUM STOREFRONT WINDOW SYSTEMS HAVING EQUAL CHARACTERISTICS BY OTHER MANUFACTURERS MAY BE CONSIDERED PROVIDED THAT DEVIATIONS IN DIMENSIONS AND PROFILES ARE MINOR AND DO NOT CHANGE THE DESIGN CONCEPT OR INTENDED PERFORMANCE AS JUDGED BY THE ARCHITECT. THE BURDEN OF PROOF OF EQUALITY IS ON THE PROPOSER.
C. DESIGN ALUMINUM STOREFRONT WINDOW SYSTEM TO WITHSTAND DESIGN WIND LOADS AS INDICATED ON STRUCTURAL DRAWINGS.

2.2 ACCESSORIES
A. BRACKETS AND REINFORCEMENTS: PROVIDE MANUFACTURER'S STANDARD BRACKETS AND REINFORCEMENTS THAT ARE COMPATIBLE WITH ADJACENT MATERIALS. PROVIDE NON-STAINING, NONFERROUS SHIMS FOR ALIGNING SYSTEM COMPONENTS.
B. FASTENERS AND ACCESSORIES: MANUFACTURER'S STANDARD CORROSION-RESISTANT, NON-STAINING, NONBLEEDING FASTENERS AND ACCESSORIES COMPATIBLE WITH ADJACENT MATERIALS.
C. CONCEALED FLASHING: MANUFACTURER'S STANDARD CORROSION-RESISTANT, NON-STAINING, NONBLEEDING FLASHING, COMPATIBLE WITH ADJACENT MATERIALS, AND OF TYPE RECOMMENDED BY MANUFACTURER. PROVIDE RECEIVER SILLS AS RECOMMENDED BY MANUFACTURER.
D. HARDWARE: PER MANUFACTURER'S STANDARD AS FOLLOWS:
1. PULL BAR: SINGLE ACTING ARCHITECTS CLASSIC HARDWARE "CO-9 PULL BAR.
2. EXIT DEVICE: KAWNEER 1686 CONCEALED ROD DEVICE.
3. DOOR CLOSURES: KAWNEER LCN 4040 SUPER SMOOTHEE SURFACE MOUNTED OVERHEAD ADJUSTABLE CLOSER.
4. PIVOTS/BUTTS: STANDARD KAWNEER COMMERCIAL BUTT HINGES (4 EACH LEAF).
5. THRESHOLD AS COMPATIBLE WITH EXIT DEVICE.
6. WEATHERSTRIPPING: MANUFACTURER'S STANDARD.
E. ALUMINUM ACM INFILL PANELS, PER MANUFACTURER'S STANDARD, AS FOLLOWS:
1. ALUMINUM INFILL PANEL: 6MM THICK ACM PANEL WITH 0.32 INCH ALUMINUM FACE. OMEGA-LITE 20 AS MANUFACTURED BY LAM I NATO RS, INC., 877.663.4277. COLOR: TO MATCH STOREFRONT.
2. ALUMINUM FACED PLYWOOD INFILL PANEL: 1/4 INCH THICK PLYWOOD WITH 0.032 INCH ALUMINUM FACE. OMEGA-PLY AS MANUFACTURED BY LAMINATORS, INC., 877.663.4277. COLOR: TO MATCH STOREFRONT.

2.3 FABRICATION
A. FABRICATE COMPONENTS THAT, WHEN ASSEMBLED, WILL HAVE ACCURATELY FITTED JOINTS WITH ENDS COPED OR MITERED TO PRODUCE HAIRLINE JOINTS FREE OF BURRS AND DISTORTION.
B. FORMING: FORM SHAPES WITH SHARP PROFILES, STRAIGHT AND FREE OF DEFECTS OR DEFORMATIONS, BEFORE FINISHING.
C. PREPARE COMPONENTS TO RECEIVE CONCEALED FASTENERS AND ANCHOR AND CONNECTION DEVICES.
D. FABRICATE COMPONENTS TO DRAIN WATER PASSING JOINTS AND CONDENSATION AND MOISTURE OCCURRING OR MIGRATING WITHIN THE SYSTEM TO THE EXTERIOR.
E. WELDING: WELD COMPONENTS TO COMPLY WITH AWS STANDARDS. WELD BEFORE FINISHING COMPONENTS TO GREATEST EXTENT POSSIBLE. WELD IN CONCEALED LOCATIONS TO GREATEST EXTENT POSSIBLE TO MINIMIZE DISTORTION OR DISCOLORATION OF FINISH. REMOVE WELD SPATTER AND WELDING OXIDES FROM EXPOSED SURFACES BY DESCALING OR GRINDING.
F. GLAZING CHANNELS: PROVIDE MINIMUM CLEARANCES FOR THICKNESS AND TYPE OF GLASS INDICATED ACCORDING TO FGMA'S "GLAZING MANUAL."
G. METAL PROTECTION: WHERE ALUMINUM WILL CONTACT DISSIMILAR METALS, PROTECT AGAINST GALVANIC ACTION BY PAINTING CONTACT SURFACES WITH PRIMER OR BY APPLYING SEALANT OR TAPE RECOMMENDED BY MANUFACTURER FOR THIS PURPOSE. WHERE ALUMINUM WILL CONTACT CONCRETE OR MASONRY, PROTECT AGAINST CORROSION BY PAINTING CONTACT SURFACES WITH BITUMINOUS PAINT.
H. FABRICATE FRAMING IN PROFILES INDICATED. FACTORY-ASSEMBLE COMPONENTS TO GREATEST EXTENT POSSIBLE. DISASSEMBLE COMPONENTS ONLY AS NECESSARY FOR SHIPMENT AND INSTALLATION.

2.4 ALUMINUM FINISHES
A. CLASS II, ETCHED, MEDIUM MATTE, CLEAR ANODIC FINISH.

3.1 INSTALLATION
A. FIELD MEASUREMENTS: VERIFY DIMENSIONS BY FIELD MEASUREMENTS BEFORE FABRICATION AND INDICATE MEASUREMENTS ON RECORD DRAWINGS.
B. FIT FRAME JOINTS TO PRODUCE HAIRLINE JOINTS FREE OF BURRS AND DISTORTION. RIGIDLY SECURE NON-MOVEMENT JOINTS. SEAL JOINTS WATERTIGHT.
C. METAL PROTECTION: WHERE ALUMINUM WILL CONTACT DISSIMILAR METALS, PROTECT AGAINST GALVANIC ACTION BY PAINTING CONTACT SURFACES WITH PRIMER OR BY APPLYING SEALANT OR TAPE RECOMMENDED BY MANUFACTURER FOR THIS PURPOSE. WHERE ALUMINUM WILL CONTACT CONCRETE OR MASONRY, PROTECT AGAINST CORROSION BY PAINTING CONTACT SURFACES WITH BITUMINOUS PAINT.
D. INSTALL COMPONENTS TO DRAIN WATER PASSING JOINTS AND CONDENSATION AND MOISTURE OCCURRING OR MIGRATING WITHIN THE SYSTEM TO THE EXTERIOR.A. SET CONTINUOUS SILL MEMBERS AND FLASHING IN A FULL SEALANT BED TO PROVIDE WEATHERTIGHT CONSTRUCTION.
B. INSTALL GLAZING TO COMPLY WITH STOREFRONT MANUFACTURER'S INSTRUCTIONS, AND AS INDICATED.
C. INSTALL PERIMETER SEALANT TO COMPLY WITH STOREFRONT MANUFACTURER'S INSTRUCTIONS, AND AS INDICATED.

SECTION 09220 - PORTLAND CEMENT PLASTER

1.1 SUBMITTALS
A. PRODUCT DATA: MANUFACTURER'S SPECIFICATIONS, DETAILS, INSTALLATION INSTRUCTIONS, AND PRODUCT DATA.
B. MOCK UP (WHEN INDICATED ON DRAWINGS): REFER TO DRAWINGS FOR MOCK UP ELEVATION. MOCK UP SHALL REPRESENT COLOR AND TEXTURE RANGE FOR APPROVAL BY ARCHITECT.

2.1 METAL LATH
A. EXPANDED-METAL LATH: ASTM C 847 WITH ASTM A 653/A 653M, G60 (Z180), HOT-DIP GALVANIZED ZINC COATING; DIAMOND MESH LATH SELF-FURRING; 2.5 LB WEIGHT /SQ. YD. FOR VERTICAL APPLICATIONS.
B. WEATHER-RESISTANT BARRIER: 2 LAYERS OF DUPONT; TYVEK STUCCOWRAP; INSTALL PER MANUFACTURER' WRITTEN INSTRUCTIONS.

2.2 ACCESSORIES
A. FOUNDATION WEEP SCREED: FABRICATED FROM HOT-DIP GALVANIZED STEEL SHEET, ASTM A 653/A 653M, G60 (Z180) ZINC COATING.
B. EXTERNAL-CORNER REINFORCEMENT: FABRICATED FROM METAL LATH WITH ASTM A 653/A 653M, G60 (Z180), HOT-DIP GALVANIZED ZINC COATING.
C. CORNERBEADS: FABRICATED FROM ZINC, SMALL-NOSE STYLE; USE UNLESS OTHERWISE INDICATED.
D. CASING BEADS: FABRICATED FROM ZINC; SQUARE-EDGED STYLE; WITH EXPANDED FLANGES.
E. CONTROL AND EXPANSION JOINTS: FABRICATED FROM ZINC; FOLDED PAIR OF UNPERFORATED SCREEDS IN M-SHAPED CONFIGURATION; WITH PERFORATED FLANGES AND REMOVABLE PROTECTIVE TAPE ON PLASTER FACE OF CONTROL JOINT.

2.3 MISCELLANEOUS MATERIALS
A. WATER FOR MIXING: POTABLE AND FREE OF SUBSTANCES CAPABLE OF AFFECTING PLASTER SET OR OF DAMAGING PLASTER, LATH, OR ACCESSORIES.
B. FIBER FOR BASE COAT: ALKALINE-RESISTANT GLASS OR POLYPROPYLENE FIBERS, 1/2 INCH (13 MM) LONG, FREE OF CONTAMINANTS, MANUFACTURED FOR USE IN PORTLAND CEMENT PLASTER.
C. BONDING COMPOUND: ASTM C 932.
D. STEEL DRILL SCREWS: FOR METAL-TO-METAL FASTENING, ASTM C 1002 OR ASTM C 954, AS REQUIRED BY THICKNESS OF METAL BEING FASTENED; WITH PAN HEAD THAT IS SUITABLE FOR APPLICATION; IN LENGTHS REQUIRED TO ACHIEVE PENETRATION THROUGH JOINED MATERIALS OF NOT FEWER THAN THREE EXPOSED THREADS.
E. FASTENERS FOR ATTACHING METAL LATH TO SUBSTRATES: COMPLYING WITH ASTM C 1063.

2.4 PLASTER MATERIALS
A. PORTLAND CEMENT: ASTM C 150, TYPE I.
B. LIME: ASTM C 206, TYPE S.
C. SAND AGGREGATE: ASTM C 897.
D. PERLITE AGGREGATE: ASTM C 35.
E. READY-MIXED FINISH-COAT PLASTER: MILL-MIXED PORTLAND CEMENT, AGGREGATES, COLORING AGENTS, AND PROPRIETARY INGREDIENTS.
1. PROVIDE ONE OF THE FOLLOWING PRODUCTS OR EQUAL:
a. CALIFORNIA STUCCO PRODUCTS CORP.; CONVENTIONAL PORTLAND CEMENT STUCCO.
b. CHEMREX; THORO STUCCO.
c. UNITED STATES GYPSUM CO.; ORIENTAL EXTERIOR FINISH STUCCO.
2. FINISH: MATCH STO MEDIUM SAND FINISH. 2. COLOR: AS INDICATED ON DRAWINGS. 3.

2.5 PLASTER MIXES
A. PORTLAND CEMENT BASE-COAT MIXES:
1. OVER METAL LATH: SCRATCH AND BROWN COATS FOR THREE-COAT PLASTERWORK AS FOLLOWS:
B. SCRATCH COAT: FOR CEMENTITIOUS MATERIAL, MIX 1 PART PORTLAND CEMENT AND 0 TO 3/4 PARTS LIME. USE 2-1/2 TO 4 PARTS AGGREGATE PER PART OF CEMENTITIOUS MATERIAL (SUM OF SEPARATE VOLUMES OF EACH COMPONENT MATERIAL).
C. BROWN COAT: FOR CEMENTITIOUS MATERIAL, MIX 1 PART PORTLAND CEMENT AND 0 TO 3/4 PARTS LIME. USE 3 TO 5 PARTS AGGREGATE PER PART OF CEMENTITIOUS MATERIAL (SUM OF SEPARATE VOLUMES OF EACH COMPONENT MATERIAL).
D. PORTLAND CEMENT JOB-MIXED FINISH-COAT MIXES: FOR CEMENTITIOUS MATERIALS, MIX 1 PART PORTLAND CEMENT AND 3/4 TO 1-1/2 PARTS LIME. USE 1-1/2 TO 3 PARTS AGGREGATE PER PART OF CEMENTITIOUS MATERIAL (SUM OF SEPARATE VOLUMES OF EACH COMPONENT MATERIAL).

3.1 PREPARATION
A. PREPARE SOLID-PLASTER BASES THAT ARE SMOOTH OR THAT DO NOT HAVE THE SUCTION CAPABILITY REQUIRED TO BOND WITH PLASTER ACCORDING TO ASTM C 926.

3.2 INSTALLING NONSTRUCTURAL STEEL FRAMING, GENERAL
A. GENERAL: COMPLY WITH REQUIREMENTS IN ASTM C 1063 FOR APPLICATIONS INDICATED.
1. COMPLY WITH ASTM C 754 FOR INSTALLATION OF ITEMS NOT ADDRESSED IN ASTM C 1063.
B. INSTALL SUPPLEMENTARY FRAMING, BLOCKING, AND BRACING AT TERMINATIONS IN PLASTER ASSEMBLIES TO SUPPORT FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, OR SIMILAR CONSTRUCTION.
C. ISOLATE STEEL FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF LOADING IMPOSED BY STRUCTURAL MOVEMENT.
D. DO NOT BRIDGE BUILDING CONTROL AND EXPANSION JOINTS WITH STEEL FRAMING OR FURRING MEMBERS. FRAME BOTH SIDES OF JOINTS INDEPENDENTLY.

3.3 INSTALLING METAL LATH
A. EXPANDED-METAL LATH: INSTALL ACCORDING TO ASTM C 1063. A.

3.4 INSTALLING ACCESSORIES
A. REINFORCEMENT FOR EXTERNAL CORNERS:
1. INSTALL LATH-TYPE EXTERNAL-CORNER REINFORCEMENT AT EXTERIOR LOCATIONS.
B. CONTROL JOINTS: COORDINATE INSTALLATION OF CONTROL JOINTS WITH REQUIREMENTS BELOW AND AS INDICATED ON DRAWINGS.
1. AS REQUIRED TO DELINEATE PLASTERWORK INTO AREAS (PANELS) OF THE FOLLOWING MAXIMUM SIZES:
C. VERTICAL SURFACES: 144 SQ. FT. (13.4 SQ. M).
1. AT DISTANCES BETWEEN CONTROL JOINTS OF NOT GREATER THAN 18 FEET (5.5 M) O.C.
2. AS REQUIRED TO DELINEATE PLASTERWORK INTO AREAS (PANELS) WITH LENGTH-TO-WIDTH RATIOS OF NOT GREATER THAN 2-1/2:1.
3. WHERE PLASTERWORK AREAS CHANGE DIMENSIONS, TO DELINEATE RECTANGULAR-SHAPED AREAS (PANELS) AND TO RELIEVE THE STRESS THAT OCCURS AT THE CORNER FORMED BY THE DIMENSION CHANGE.

SECTION 09310 - CERAMIC TILE

1.1 SUBMITTALS
A. SAMPLES: SIX WEEKS PRIOR TO INSTALLATION, PROVIDE A SAMPLE FOR EACH SPECIFIED TILE AND A 12 INCH x 12 INCH MOCK-UP OF CERAMIC TILE WITH SPECIFIED GROUT.

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Scott Joseph Broadbent
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SPECS.

SHEET:
CS1.1

2.1 MATERIALS

A. TILE: PROVIDE SQUARE-EDGED FLAT TILE COMPLYING WITH SIZES, SHAPES AND CUSHIONED EDGE AS INDICATED ON DRAWINGS.
1. MANUFACTURERS AND COLORS: AS INDICATED ON DRAWINGS.
2. PROVIDE ABRASIVE TILE WHERE INDICATED ON DRAWINGS.
B. TRIM UNITS: PROVIDE TILE TRIM UNITS TO MATCH CHARACTERISTICS OF ADJOINING FLAT TILE.
C. SETTING MATERIALS:
1. LATEX-PORTLAND CEMENT MORTAR: ANSI A118.41.
D. PANTHEON COMPLETE INSTALLATION SYSTEM: INCLUDES PREMIUM MORTAR, EPOXY GROUT, SPACERS, TROWELS, POST-INSTALLATION CLEANER, AND 15 YEAR BOND AND STRUCTURAL TILE WARRANTY. ULTRAFLEX LFT - PREMIUM FORMAT TILE MORTAR WITH POLYMER - GREY; KERAPOXY - PREMIUM EPOXY GROUT; 1/16" HARD SPACERS; 1/2" X 1/2" X 1/2" STAINLESS STEEL SQUARE NOTCH ERGO HANDLE TROWEL; DETERDEK-POST INSTALLATION INITIAL CLEANER.
1. MANUFACTURERS AND COLORS: AS INDICATED ON DRAWINGS.
E. TROWELABLE UNDERLAYMENTS AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND-CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY MANUFACTURER OF TILE-SETTING MATERIALS FOR INSTALLATIONS INDICATED.
F. CEMENTITIOUS BACKER BOARD: AS SPECIFIED IN GYPSUM BOARD ASSEMBLIES.
G. ELASTOMERIC SEALANTS: ELASTOMERIC SEALANTS OF BASE POLYMER AND CHARACTERISTICS INDICATED THAT COMPLY WITH APPLICABLE REQUIREMENTS IN DIVISION 7, SECTION "JOINT SEALANTS."
1. ONE-PART MILDEW-RESISTANT SILICONE: ASTM C 920; TYPE S; GRADE NS; CLASS 25; USES NT, G, A, AND AS APPLICABLE TO NONPOROUS JOINT SUBSTRATES INDICATED O; FORMULATED WITH FUNGICIDE,INTENDED FOR IN-SERVICE EXPOSURES OF HIGH HUMIDITY AND EXTREME TEMPERATURES.

3.1 INSTALLATION

A. COMPLY WITH PARTS OF ANSI A108 SERIES OF TILE INSTALLATION STANDARDS IN "SPECIFICATIONS FOR INSTALLATION OF CERAMIC TILE" THAT APPLY TO TYPES OF SETTING AND GROUTING MATERIALS AND TO METHODS INDICATED IN CERAMIC TILE INSTALLATION SCHEDULES.
B. COMPLY WITH TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" INSTALLATION METHODS. CERAMIC TILE FLOOR INSTALLATION METHOD: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE SUBFLOOR).
C. EXTEND TILE WORK INTO RECESSES AND BEHIND EQUIPMENT AND FIXTURES TO FORM A COMPLETE COVERING WITHOUT INTERRUPTIONS, UNLESS OTHERWISE INDICATED. TERMINATE WORK NEATLY AT OBSTRUCTIONS, EDGES, AND CORNERS WITHOUT DISRUPTING PATTERN OR JOINT ALIGNMENTS.
D. JOINTING PATTERN: LAY TILE IN GRID PATTERN, UNLESS OTHERWISE INDICATED. ALIGN JOINTS WHEN ADJOINING TILES ON WALLS AND / TRIM ARE THE SAME SIZE. LAY OUT TILE WORK AND CENTER TILE FIELDS IN BOTH DIRECTIONS ON EACH WALL AREA. ADJUST TO MINIMIZE \ TILE CUTTING. PROVIDE UNIFORM JOINT WIDTHS, UNLESS OTHERWISE INDICATED.

SECTION 09511 - ACOUSTICAL PANEL CEILINGS

2.1 ACOUSTICAL PANELS

A. WET AREAS:
1. ARMSTRONG "CLEAN ROOM VL," SQUARE EDGE. SIZE AS INDICATED ON DRAWINGS. COLOR: WHITE, OR EQUAL
2. NATIONAL "GOLD BOND," BRAND GRIDSTONE GYPSUM CEILING PANEL. SIZE AS INDICATED ON DRAWINGS. COLOR: WHITE, OR EQUAL
B. NON-WET AREAS: ARMSTRONG "DUNE," SQUARE EDGE. SIZE AS INDICATED ON DRAWINGS. COLOR: WHITE

2.2 METAL SUSPENSION SYSTEMS

A. ARMSTRONG PRELUDE PLUS XL 15/16 INCH EXPOSED TEE SYSTEM.
B. MATERIALS: PROVIDE COMPLETE SYSTEM, INCLUDING MANUFACTURER'S MOLDINGS, TRIM, AND ACCESSORIES.
1. GRID: INTERMEDIATE DUTY SYSTEM; STEEL EXPOSED TEE, NOMINAL 1 INCH WIDE; COMPLY WITH APPLICABLE ASTM C 635 REQUIREMENTS.
2. ACCESSORIES: STABILIZER BARS, TRIM, MOLDINGS, CLIPS, AND SPLICES. 6 INCH EDGE MOLDINGS: METAL CHANNEL WITH EXPOSED FLANGE TO MATCH GRID SYSTEM.
3. FINISHES: GALVANIZED STEEL WITH BAKED ENAMEL FINISH. COLOR/FINISH: AS INDICATED ON DRAWINGS.

2.3 SOUND ATTENUATION BOARD

A. SOUND ISOLATION COMPANY "SOUNDPROOF BARRIERS."
1. WEIGHT: 1 POUND PER SQUARE FOOT UNLESS OTHERWISE INDICATED.
2. TRANSMISSION LOSS FACTOR (SINGLE PASS): 1.0 POUND DENSITY. SOUND TRANSMISSION COEFFICIENT: 27.
3. LOCATION AS INDICATED ON DRAWINGS.

3.1 INSTALLATION

A. GENERAL: INSTALL ACOUSTICAL PANEL CEILINGS TO COMPLY WITH PUBLICATIONS REFERENCED BELOW PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND CISCA'S "CEILING SYSTEMS HANDBOOK." STANDARD FOR CEILING SUSPENSION SYSTEM INSTALLATIONS: COMPLY WITH ASTM C 636.
B. SUSPEND CEILING HANGERS FROM BUILDING'S STRUCTURAL MEMBERS AND AS FOLLOWS:
1. INSTALL HANGERS PLUMB AND FREE FROM CONTACT WITH OBJECTS WITHIN CEILING PLENUM THAT ARE NOT PART OF SUPPORTING STRUCTURE OR OF CEILING SUSPENSION SYSTEM. ATTACHMENT TO DUCTS, PIPING, AND OTHER NON-STRUCTURAL MEMBERS IS PROHIBITED.
2. SPLAY HANGERS ONLY WHERE REQUIRED AND TO MISS OBSTRUCTIONS; OFFSET RESULTING HORIZONTAL FORCES BY BRACING, COUNTERSPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS.
3. SPACE HANGERS NOT MORE THAN 48 INCHES O.C. ALONG EACH MEMBER SUPPORTED DIRECTLY FROM HANGERS, UNLESS OTHERWISE INDICATED; AND PROVIDE HANGERS NOT MORE THAN 8 INCHES FROM ENDS OF EACH MEMBER.
C. SECURE BRACING WIRES TO CEILING SUSPENSION MEMBERS AND TO SUPPORTS WITH A MINIMUM OF FOUR TIGHT TURNS. SUSPEND BRACING FROM BUILDING'S STRUCTURAL STEEL AS INDICATED AND AS REQUIRED FOR HANGERS, WITHOUT ATTACHING TO PERMANENT METAL FORMS, STEEL DECK, OR STEEL DECK TABS.
D. INSTALL EDGE MOLDINGS AND TRIM OF TYPE INDICATED AT PERIMETER OF ACOUSTICAL CEILING AREA AND WHERE NECESSARY TO CONCEAL EDGES OF ACOUSTICAL PANELS.
E. INSTALL ACOUSTICAL PANELS WITH UNDAMAGED EDGES AND FITTED ACCURATELY INTO SUSPENSION SYSTEM RUNNERS AND EDGE MOLDINGS. SCRIBE AND CUT PANELS AT BORDERS AND PENETRATIONS TO PROVIDE A NEAT, PRECISE FIT. INSTALL HOLD-DOWN CLIPS ON PANELS AS RECOMMENDED BY PANEL MANUFACTURER'S WRITTEN INSTRUCTIONS.

SECTION 09651 - RESILIENT FLOORING

2.1 MATERIALS

A. RESILIENT TILE:
1. VCT:
a. MANUFACTURER: AS INDICATED ON DRAWINGS
b. STYLE: AS INDICATED ON DRAWINGS.
c. INSTALLATION:
B. RUBBER WALL BASE:
1. MANUFACTURER AND COLOR: AS INDICATED ON DRAWINGS.
2. STYLE: 4 INCH TOELESS AT CARPET AND 4 INCH COVE WITH TOPSET TOE AT ALL OTHER AREAS.
3. TRANSITION PIECES: PREMOLDED INSIDE AND OUTSIDE CORNERS AND END CAPS.

3.4 RESILIENT ACCESSORY INSTALLATION

A. USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, TO FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBSTRATES.
B. INSTALL RESILIENT FLOORING AND ACCESSORIES ACCORDING TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. ALLOW TIME FOR MATERIAL TO ACCLIMATE TO ROOM CONDITIONS BEFORE BEGINNING INSTALLATION.
C. INSTALL WALL BASE IN LENGTHS AS LONG AS PRACTICABLE WITHOUT GAPS AT SEAMS AND WITH TOPS OF ADJACENT PIECES ALIGNED.

SECTION 09255 - GYPSUM BOARD ASSEMBLIES

2.1 PRODUCTS

A. STEEL STUDS AND RUNNERS: ASTM C 645, WITH FLANGE EDGES OF STUDS BENT BACK 90 DEGREES AND DOUBLED OVER TO FORM 3/16-INCH-WIDE MINIMUM LIP (RETURN), AND COMPLYING WITH THE FOLLOWING:
1. 24 GUAGE, UNLESS OTHERWISE NOTED.
2. THICKNESS: 1-5/8 INCH OR AS INDICATED ON DRAWINGS.
3. DEPTH: AS INDICATED ON DRAWINGS.
4. PROTECTIVE COATING: MANUFACTURER'S STANDARD CORROSION-RESISTANT COATING.
B. STEEL RIGID FURRING CHANNELS: ASTM C 645, HAT SHAPED METAL AS FOLLOWS:
1. THICKNESS AND DEPTH: AS INDICATED ON DRAWINGS.
2. PROTECTIVE COATING: MANUFACTURER'S STANDARD CORROSION-RESISTANT COATING.
C. GYPSUM BOARD PRODUCTS: PROVIDE GYPSUM AND CEMENTITIOUS TILE BACKER BOARD OF TYPES INDICATED ON DRAWINGS IN MAXIMUM LENGTHS AVAILABLE THAT WILL MINIMIZE END-TO-END BUTT JOINTS IN EACH AREA INDICATED TO RECEIVE GYPSUM BOARD APPLICATION.
1. WIDTHS: PROVIDE GYPSUM BOARD IN WIDTHS OF 48 INCHES.
2. EDGES: TAPERED, EXCEPT SQUARE AT MULTILAYER APPLICATIONS.
3. REFERENCE SECTION 07540 FOR SHEATHING UNDER VERTICAL ROOFING SURFACES (PARAPETS).
D. JOINT TREATMENT MATERIALS: PROVIDE JOINT TREATMENT MATERIALS COMPLYING WITH ASTM C 475 AND THE RECOMMENDATIONS OF BOTH THE MANUFACTURERS OF SHEET PRODUCTS AND OF JOINT TREATMENT MATERIALS FOR EACH APPLICATION INDICATED.
E. ACCESSORIES: CORNERBEAD, EDGE TRIM, AND CONTROL JOINTS COMPLYING WITH ASTM C 1047.
F. FASTENERS: PROVIDE FASTENERS OF TYPE, MATERIAL, SIZE, CORROSION RESISTANCE, HOLDING POWER, AND OTHER PROPERTIES REQUIRED TO FASTEN STEEL FRAMING AND FURRING MEMBERS SECURELY TO SUBSTRATES INVOLVED; COMPLYING WITH THE RECOMMENDATIONS OF GYPSUM BOARD SYSTEM MANUFACTURERS FOR APPLICATIONS INDICATED.
1. SELF-DRILLING, SELF-TAPPING, STEEL DRYWALL SCREWS COMPLYING WITH ASTM C 1002 FOR APPLICATIONS INDICATED.
2. FIRE RATED CONSTRUCTION: SCREW TYPE AND LENGTH SHALL COMPLY WITH APPLICABLE CODE REQUIREMENTS AND UL LISTINGS AS INDICATED IN DRAWINGS.

3.1 INSTALLATION

A. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. COMPLY WITH ASTM C 840 AND GA-216; ALL RAW EDGES MUST BE FINISHED.
B. PROVIDE CONTROL JOINTS AT A MAXIMUM SPACING OF 30' AND AT ONE JAMB OF EACH DOOR.

SECTION 09900 - PAINTING

1.1 WARRANTY

A. PROVIDE TWO YEAR WARRANTY AGAINST FADING, PEELING, CHALKING, AND FAILURES. WARRANTY SHALL COMMENCE FROM THE DAY OF SUBSTANTIAL COMPLETION. CONTRACTOR TO REPAINT SURFACES AS DIRECTED BY THE OWNER IF WARRANTY IS NOT ATTAINED WITHIN THE SPECIFIED PERIOD AT NO ADDITIONAL COST TO THE OWNER.

1.2 SUBMITTALS

A. CONTRACTOR SHALL PROVIDE PAINT SAMPLES OF EACH SPECIFIED PAINT COLOR FOR REVIEW BY THE OWNER'S REPRESENTATIVE.
B. PAINT PRODUCT DATA AND MATERIAL INVOICE TO BE PROVIDED IN CLOSE-OUT DOCUMENTS.

2.1 MATERIALS

A. MANUFACTURERS: ALL MATERIAL IN THIS SECTION IS TO BE PURCHASED BY THE GENERAL CONTRACTOR FROM SHERWIN WILLIAMS, PPG INDUSTRIES INC., OR BEHR PROCESS CORPORATION.

B. MATERIAL COMPATIBILITY: PROVIDE BLOCK FILLERS, PRIMERS, UNDERCOATS AND FINISH-COAT MATERIALS THAT ARE FROM THE SAME MANUFACTURER AS THE FINISH COATS AND COMPATIBLE WITH ONE ANOTHER AND THE SUBSTRATES INDICATED UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.

C. MATERIAL QUALITY: PROVIDE MANUFACTURER'S "BEST-QUALITY" PAINT MATERIAL OF THE VARIOUS COATING TYPES SPECIFIED. PAINT-MATERIAL CONTAINERS NOT DISPLAYING MANUFACTURER'S PRODUCT IDENTIFICATION WILL NOT BE ACCEPTABLE.

D. REGULATORY REQUIREMENTS:

1. SURFACE BURNING CHARACTERISTICS IN ACCORDANCE WITH ASTM E-84 FOR CLASS I OR A FINISH:

a. FLAME SPREAD (NON-COMBUSTIBLE SURFACES): LESS THAN 25.

b. SMOKE DENSITY (NON-COMBUSTIBLE SURFACES): LESS THAN 450.

2. PROVIDE PAINT AND COATING MATERIALS THAT CONFORM TO FEDERAL, STATE AND LOCAL RESTRICTIONS FOR VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT.

2.4 PROJECT CONDITIONS

A. APPLY PAINTS ONLY WHEN THE TEMPERATURE OF SURFACES TO BE PAINTED AND SURROUNDING AIR TEMPERATURES ARE BETWEEN 50 AND 90 DEG F. DO NOT APPLY PAINT IN SNOW, RAIN, FOG OR MIST; OR WHEN THE RELATIVE HUMIDITY EXCEEDS 85 PERCENT; OR TO DAMP OR WET SURFACES. REFER TO MANUFACTURER SPECIFICATIONS FOR APPLICATIONS.

3.1 PREPARATION AND APPLICATION

A. GENERAL: REMOVE HARDWARE AND HARDWARE ACCESSORIES, PLATES, MACHINED SURFACES, LIGHTING FIXTURES AND SIMILAR ITEMS ALREADY INSTALLED THAT ARE NOT TO BE PAINTED. IF REMOVAL IS IMPOSSIBLE BECAUSE OF THE SIZE OR WEIGHT OF THE ITEM, PROVIDE SURFACE-APPLIED PROTECTION BEFORE SURFACE PREPARATION AND PAINTING.

B. SURFACE PREPARATION: CLEAN AND PREPARE SURFACES TO BE PAINTED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR EACH PARTICULAR SUBSTRATE CONDITION AND AS SPECIFIED.

C. PAINT EACH SIDE OF EXTERIOR DOORS (INCLUDING TOP AND BOTTOM OF DOORS), FRAMES AND COILING DOORS TO MATCH ADJACENT WALLS UNLESS NOTED OTHERWISE.

D. APPLY FIRST COAT TO SURFACES AS SOON AS PRACTICAL AFTER PREPARATION AND BEFORE SUBSEQUENT SURFACE DETERIORATION.

1. DO NOT APPLY SUCCEEDING COATS UNTIL THE PREVIOUS COAT HAS CURED AS RECOMMENDED BY THE MANUFACTURER.

2. OMIT PRIMER ON METAL SURFACES THAT HAVE BEEN SHOP PRIMED AND TOUCHUP PAINTED.

3. IF UNDERCOATS, STAINS OR OTHER CONDITIONS SHOW THROUGH FINAL COAT OF PAINT, APPLY ADDITIONAL COATS UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR AND APPEARANCE. GIVE SPECIAL ATTENTION TO ENSURE EDGES, CORNERS, CREVICES, WELDS AND EXPOSED FASTENERS RECEIVE A DRY FILM THICKNESS EQUIVALENT TO THAT OF FLAT SURFACES.

E. FOG PAINT: USE SPRAY EQUIPMENT FOR APPLICATION OF PAINT AT LOCATIONS INDICATED ON DRAWINGS. USE AIRLESS SPRAY EQUIPMENT WITH ORIFICE SIZE AS RECOMMENDED BY THE MANUFACTURER. COLOR: AS INDICATED ON DRAWINGS.

F. MINIMUM COATING THICKNESS: APPLY PAINT MATERIALS NO THINNER THAN MANUFACTURER'S RECOMMENDED SPREADING RATE. PROVIDE THE TOTAL DRY FILM THICKNESS OF THE ENTIRE SYSTEM AS RECOMMENDED BY THE MANUFACTURER AND AS SPECIFIED.

G. PRIME COATS: BEFORE APPLYING FINISH COATS, APPLY A PRIME COAT OF MATERIAL, AS RECOMMENDED BY MANUFACTURER, TO MATERIAL THAT IS REQUIRED TO BE PAINTED OR FINISHED AND THAT HAS NOT BEEN PRIME COATED BY OTHERS. RECOAT PRIMED AND SEALED SURFACES WHERE EVIDENCE OF SUCTION SPOTS OR UNSEALED AREAS IN FIRST COAT APPEARS, TO ENSURE A FINISH COAT WITH NO BURN THROUGH OR OTHER DEFECTS DUE TO INSUFFICIENT SEALING.

H. PIGMENTED (OPAQUE) FINISHES: COMPLETELY COVER SURFACES AS NECESSARY TO PROVIDE A SMOOTH, OPAQUE SURFACE OF UNIFORM FINISH, COLOR, APPEARANCE AND COVERAGE. CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, RUNS, SAGS, ROPINESS OR OTHER SURFACE IMPERFECTIONS WILL NOT BE ACCEPTABLE.

I. INTERIOR COLUMNS, JOISTS, GIRDERS, OVERHEAD PIPING, CONDUIT AND RACEWAYS SHALL BE PAINTED. COLOR: AS INDICATED ON DRAWINGS. COLUMNS ALONG EXTERIOR WALLS SHALL BE PAINTED TO MATCH ADJACENT WALL (FLOOR TO BOTTOM OF GIRDER). UNLESS NOTED OTHERWISE.

J. ALL UTILITY DEVICES, CONDUIT, PIPING, ETC. WITHIN 12 INCHES OF A PAINTED VERTICAL SURFACE SHALL BE PAINTED TO MATCH SURFACE AS ALLOWABLE BY THE UTILITY PROVIDER OR DEVICE MANUFACTURER.

K. EXTERIOR FIRE SUPPRESSION PIPING: PAINT ALL EXTERIOR FIRE SUPPRESSION PIPING TO MATCH ADJACENT DECK COLOR OR WALL SURFACE WHEN VERTICAL, OR AS INDICATED ON DRAWINGS.

L. PAINT ALL EXPOSED SHEET METAL FLASHING, COPING AND TRIM. COLOR: AS INDICATED ON DRAWINGS.

M. NO PAINTING OF ANY HOT DIPPED GALVANIZED METAL WILL BE ALLOWED UNLESS WRITTEN APPROVAL IS PROVIDED BY THE ARCHITECT OR OWNER.

3.2 EXTERIOR FINISH SCHEDULE

BEHR, PPG INDUSTRIES INC., AND SHERWIN WILLIAMS (SW) ARE APPROVED MANUFACTURERS. PRODUCTS ARE SPECIFIED BELOW FOR EACH TYPE OF FINISH. USE ONLY ONE MANUFACTURER FOR EACH FINISH BUT ALL PRODUCTS SHALL COME FROM THE SAME CHOSEN MANUFACTURER.

A. FERROUS METAL:

1. FIRST COAT: BEHR PREMIUM PLUS INT/EXT MULTI-SURFACE PRIMER AND SEALER (436)
SW PRO INDUSTRIAL PRO-CRYL ACRYLIC PRIMER, B66W310

2. SECOND COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL DTM INDUSTRIAL ACRYLIC GLOSS, B66W1051

3. FINISH COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL DTM INDUSTRIAL ACRYLIC GLOSS, B66W1051

B. GALVANIZED METAL:

1. FIRST COAT: BEHR PREMIUM PLUS INT/EXT MULTI-SURFACE PRIMER AND SEALER (436)
SW PRO INDUSTRIAL PRO-CRYL ACRYLIC PRIMER, B66W310
2. SECOND COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL DTM INDUSTRIAL ACRYLIC GLOSS, B66W1051
3. FINISH COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL DTM INDUSTRIAL ACRYLIC GLOSS, B66W1051

C. PRECAST CONCRETE WALL PANELS:

1. FIRST COAT: BEHR PREMIUM PLUS INT/EXT MULTI-SURFACE PRIMER AND SEALER (436).
SW LOXON CONCRETE & MASONRY PRIMER, INTERIOR/EXTERIOR LATEX, A24W8300

2. SECOND COAT: BEHR PREMIUM ELASTOMERIC MASONRY, STUCCO, & BRICK PAINT(68)
SW A-100 EXTERIOR 100% ACRYLIC SATIN, A82W151

3. FINISH COAT: BEHR PREMIUM ELASTOMERIC MASONRY, STUCCO, & BRICK PAINT(68)
SW A-100 EXTERIOR 100% ACRYLIC SATIN, A82W151

D. CEDAR FENCE:

1. FIRST COAT: BEHR PREMIUM SEMI-TRANSPARENT WEATHERPROOFING ALL-IN-ONE WOOD STAIN & SEALER 5077 TINT BASE; 5522 CEDAR NATURALTONE
SW SUPERDECK SEMI-TRANSPARENT WATERBOREN STAIN, SD3T15

E. CONCRETE MASONRY UNIT:

1. FIRST COAT: KILZ PRO-X P50 BLOCK FILLER PRIMER
SW PREPRITE BLOCK FILLER, B25W25

2. SECOND COAT: BEHR PREMIUM ELASTOMERIC MASONRY, STUCCO, & BRICK PAINT (68)
SW SHERLASTIC ELASTOMERIC COATING, A5W151

3. FINISH COAT: BEHR PREMIUM ELASTOMERIC MASONRY, STUCCO, & BRICK PAINT(68)
SW SHERLASTIC ELASTOMERIC COATING, A5W151

F. SEALED CONCRETE MASONRY UNIT:

1. SMOOTH CMU: ONE COAT OF OKON S-40.
SW LOXON VERTICAL WATER REPELLANTS 7% SILOXANE 7% SILOXANE, A10T7

2. SPLIT FACE CMU: TWO COATS OF OKON S-40.
TWO COATS OF SW LOXON VERTICAL WATER REPELLANTS 7% SILOXANE 7% SILOXANE, A10T7

G. ROOF WARNING LINES APPLIED TO TPO ROOFING SYSTEM:

1. FIRST COAT: KILZ ADHESION BONDING PRIMER (2111)
SW EXTREME BONDING PRIMER B51W150

2. SECOND COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL DTM ACRYLIC GLOSS, B66W1051

3. FINISH COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL DTM ACRYLIC GLOSS, B66W1051

H. EXTERIOR VIVID, BRIGHT, DARK ACCENT COLORS: SUPERIOR COLOR RETENTION.

1. FIRST COAT: BEHR MARQUEE SATIN
SW RESILIENCE EXTERIOR LATEX SATIN, K43W51

2. SECOND COAT: BEHR MARQUEE SATIN
SW RESILIENCE EXTERIOR LATEX SATIN, K43W51

3.3 INTERIOR FINISH SCHEDULE

A. FERROUS METAL:

1. FIRST COAT: BEHR PREMIUM PLUS INT/EXT MULTI-SURFACE PRIMER AND SEALER (436)
SW PRO INDUSTRIAL PRO-CRYL ACRYLIC PRIMER, B66W310
2. SECOND COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL DTM ACRYLIC GLOSS, B66W1051

3. FINISH COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL DTM ACRYLIC GLOSS, B66W1051

B. GYPSUM BOARD WALLS:

1. FIRST COAT: KILZ PRO-X P10 PVA DRYWALL PRIMER
SW HIGH BUILD DRYWALL PRIMER, B28W8601

2. SECOND COAT: BEHR PRO INTERIOR EGGSHELL (PR330)
SW PROMAR 200 ZERO VOC INTERIOR LATEX EGGSHELL, B20W12651

3. FINISH COAT: BEHR PLUS INTERIOR EGGSHELL (PR330)
SW PROMAR 200 ZERO VOC INTERIOR LATEX EGGSHELL, B20W12651

C. GYPSUM BOARD WALLS AT RESTROOMS:

1. FIRST COAT: KILZ PRO-X P10 PVA DRYWALL PRIMER
SW HIGH BUILD DRYWALL PRIMER, B28W8601

2. SECOND COAT: BEHR PRO INTERIOR EGGSHELL (PR330)
SW PROMAR 200 ZERO VOC INTERIOR LATEX EGGSHELL, B20W12651

3. FINISH COAT: BEHR PRO INTERIOR EGGSHELL (PR330)
SW PROMAR 200 ZERO VOC INTERIOR LATEX EGGSHELL, B20W12651

D. GYPSUM BOARD CEILINGS:

1. FIRST COAT: KILZ PRO-X P10 PVA DRYWALL PRIMER
SW HIGH BUILD DRYWALL PRIMER, B28W8601

2. SECOND COAT: BEHR PRO INTERIOR EGGSHELL (PR330)
SW PROMAR 200 ZERO VOC INTERIOR LATEX EGGSHELL, B20W12651

3. FINISH COAT: BEHR PRO INTERIOR EGGSHELL (PR330)
SW PROMAR 200 ZERO VOC INTERIOR LATEX EGGSHELL, B20W12651

E. PLYWOOD:

1. FIRST COAT: MINIWAX WATER-BASED PRE-STAIN WOOD CONDITIONER

2. SECOND COAT: MINIWAX POLYCRYLIC CLEAR SEMI-GLOSS FINISH (4444)

3. FINISH COAT: MINIWAX POLYCRYLIC CLEAR SEMI-GLOSS FINISH (4444)

F. OVERHEAD STRUCTURAL STEEL AND DECKING:

1. FINISH COAT: KILZ PRO-X DRY FALL FLAT (PX890)
SW WATERBORNE ACRYILC DRY FALL FLAT, B42W1

G. METAL DOOR FRAMES:

1. FIRST COAT: BEHR PREMIUM PLUS INT/EXT MULTI-SURFACE PRIMER AND SEALER (436)
SW PRO INDUSTRIAL PRO-CRYL ACRYLIC PRIMER, B66W310

2. SECOND COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL HIGH PERFORMANCE ARCYLIC, SEMI-GLOSS, B66W651

3. FINISH COAT: BEHR PREMIUM INT/EXT DIRECT-TO-METAL GLOSS (8200 SERIES)
SW PRO INDUSTRIAL HIGH PERFORMANCE ARCYLIC, SEMI-GLOSS, B66W651

H. CONCRETE MASONRY UNIT AT WASH DOWN AREA:

1. FIRST COAT: BEHR PREMIUM CONCRETE & MASONRY (BLOCK FILLER) WATERPROOFER (870)
SW HEAVY DUTY BLOCK FILLER, B42W46

2. SECOND COAT: MONOCHEM EPOXYGUARD 200 WATERBORNE EPOXY ACRYLIC COATING (8900)
SW PRO INDUSTRIAL WATERBASED EPOXY, GLOSS (PART A), B73W311

3. FINISH COAT: MONOCHEM EPOXYGUARD 200 WATERBORNE EPOXY ACRYLIC COATING (8900)
SW PRO INDUSTRIAL WATERBASED EPOXY, GLOSS (PART A), B73W311

I. GYPSUM BOARD WALLS AT JANITOR'S CLOSET:

1. FIRST COAT: KILZ PREMIUM INT/EXT WATER-BASE PRIMER (1300)
SW HIGH BUILD DRYWALL PRIMER B28W8601

2. SECOND COAT: MONOCHEM EPOXYGUARD 200 WATERBORNE EPOXY ACRYLIC COATING (8900)
SW PRO INDUSTRIAL PRECATALYZED WATERBASED EPOXY, K45W151

3. FINISH COAT: MONOCHEM EPOXYGUARD 200 WATERBORNE EPOXY ACRYLIC COATING (8900)
SW PRO INDUSTRIAL PRECATALYZED WATERBASED EPOXY, K45W00151

SECTION 107313 AWNINGS

2.1 MATERIALS

A. AWNTEX BY TRI VANTAGE.
1. AWNTEX 160 FR OPEN WEAVE AWNING FABRIC. COLOR: AS INDICATED IN DRAWINGS. APPROXIMATE 13.9% OPENNESS PANELS TO BE MADE IN 24' X 4' SIZES AND ANCHORED TO TOPS OF EXISTING STEEL 'I' BEAMS OF TRELLIS.
2. ALUMINUM FRAMES: 1" X 2" EXTRUDED ALUMINUM STAPLE-STITCH TUBES WITH SPREADERS TO KEEP FABRIC TIGHT. FRAMES TO BE MILL ALUMINUM FINISH.
B. LOCATION AS INDICATED ON DRAWINGS.

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

pb2 architecture +engineering
2809 Ajax Avenue Suite 100
Rogers Arkansas 72758
Phone: 479.636.3545
Fax: 479.636.1209

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EQUIPMENTSHARE - LAKE CITY, FL

US-90 & PRICE CREEK ROAD
LAKE CITY, FLORIDA

JOB NUMBER: 2023.0377

ISSUE BLOCK

	OTP	08.11.2023

CHECKED BY:	SJB
DRAWN BY:	HLB
DOCUMENT DATE:	11.06.2023

STATE OF FLORIDA
Scott Joseph Broadbent
AR97891
REGISTERED ARCHITECT
12.09.2024

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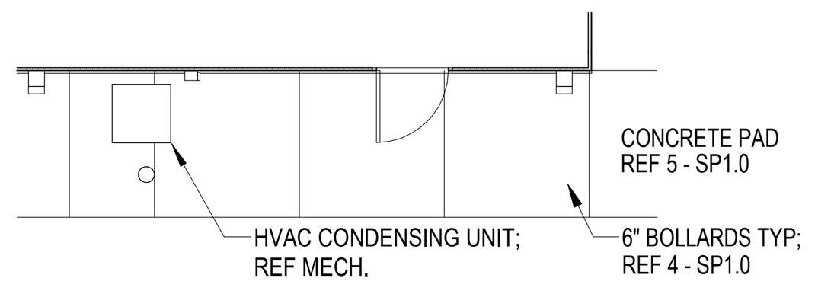
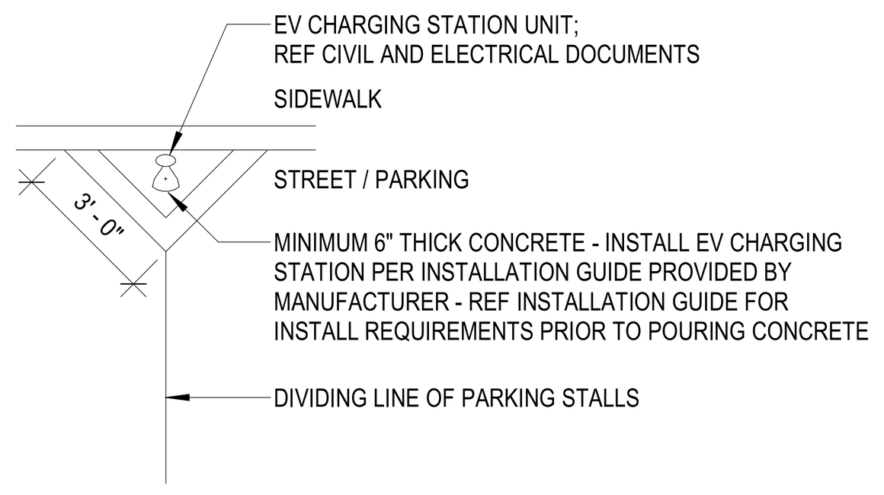
CONST. SPECS.

SHEET: CS1.2

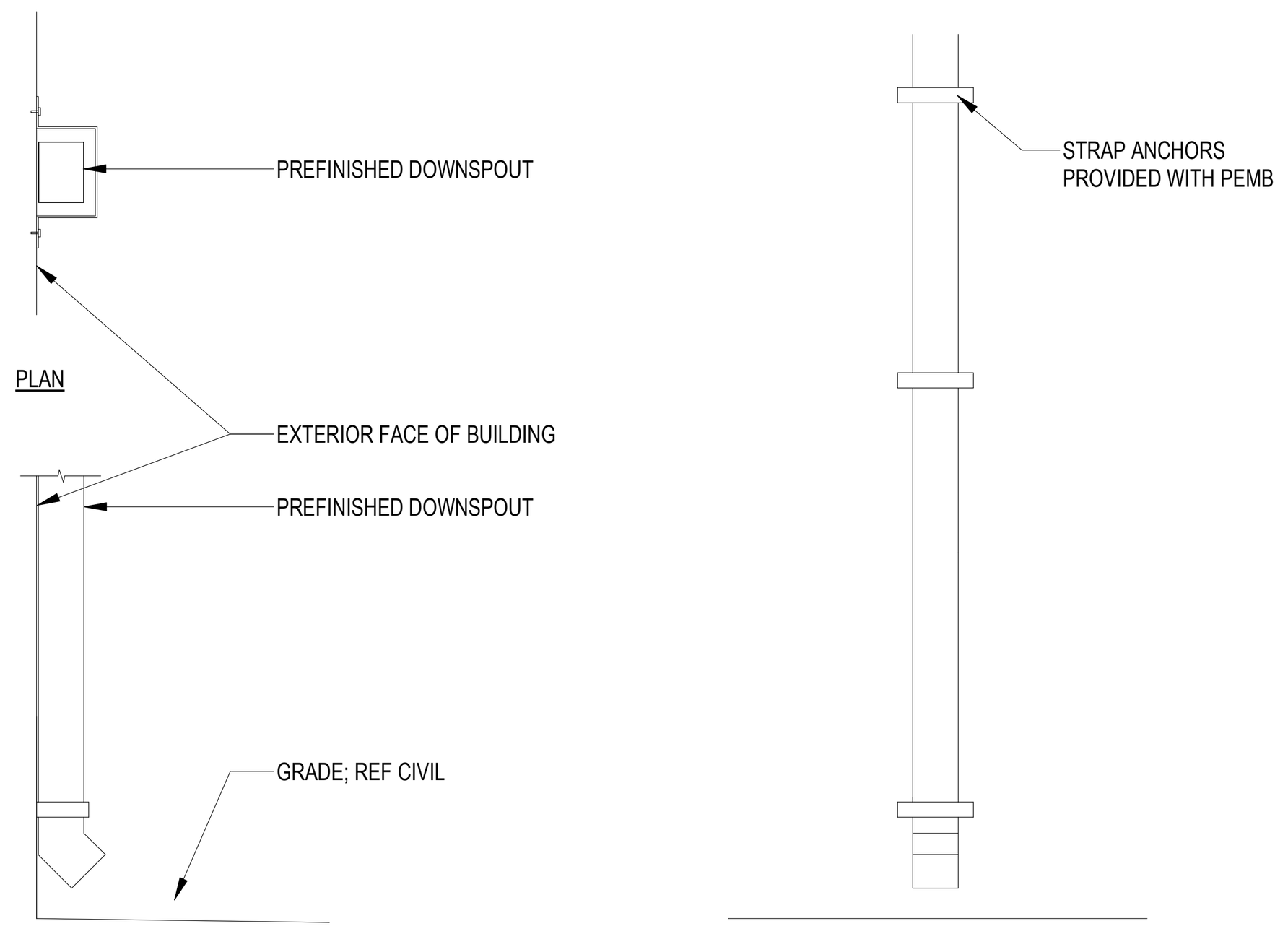


9 ENLARGED SITE PLAN
1/8" = 1'-0"

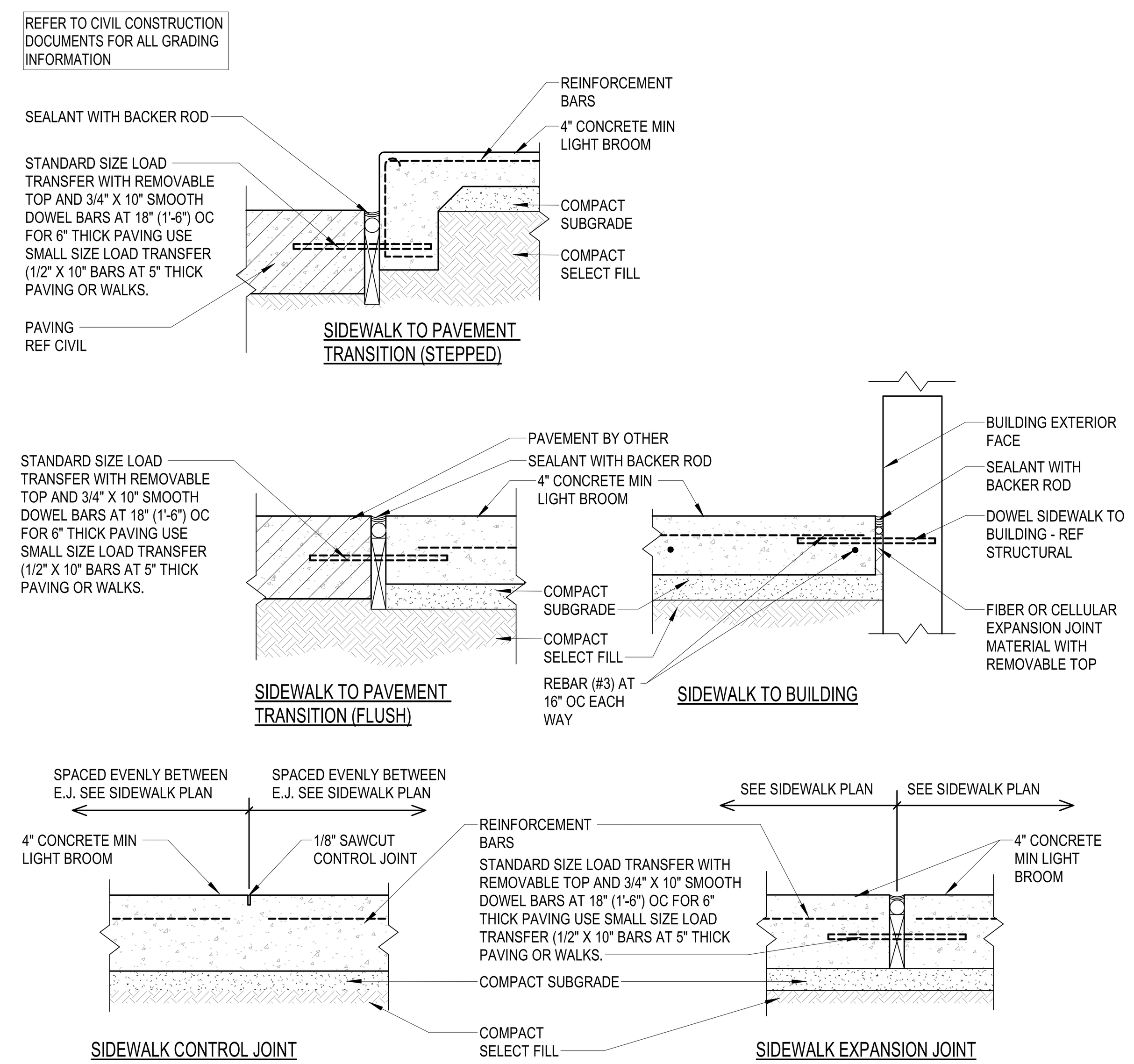
8 OVERHEAD DOOR PROTECTION DETAIL
3/4" = 1'-0"



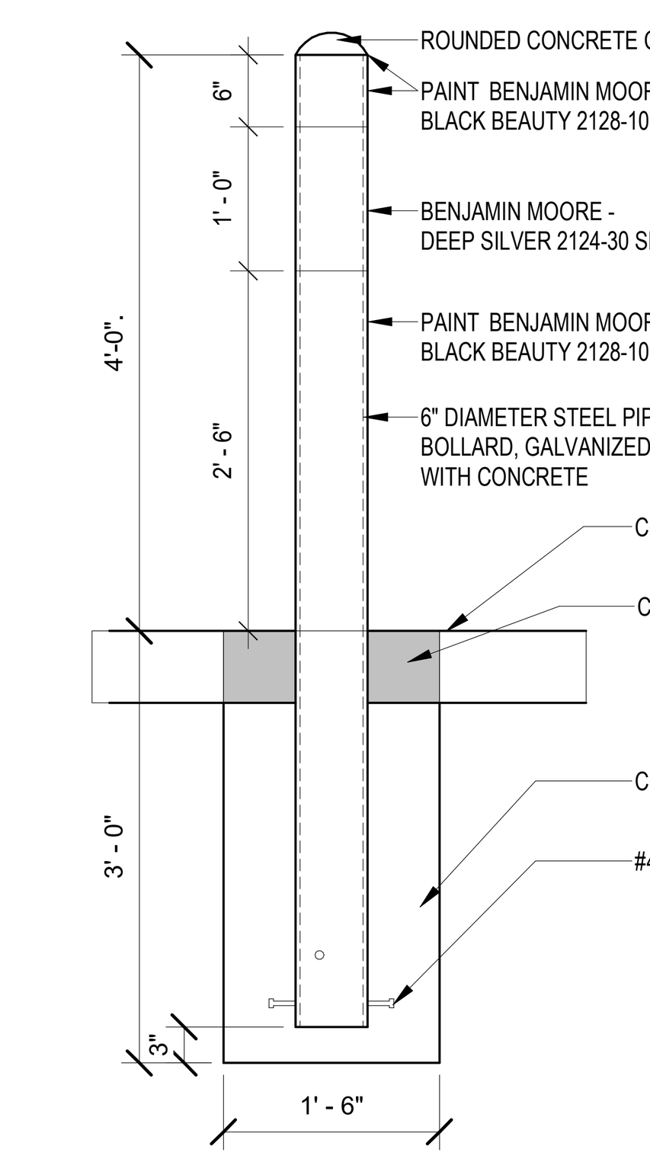
7 EV CHARGING STATION PLAN
1/4" = 1'-0"



6 DOWNSPOUT DETAIL
1/2" = 1'-0"

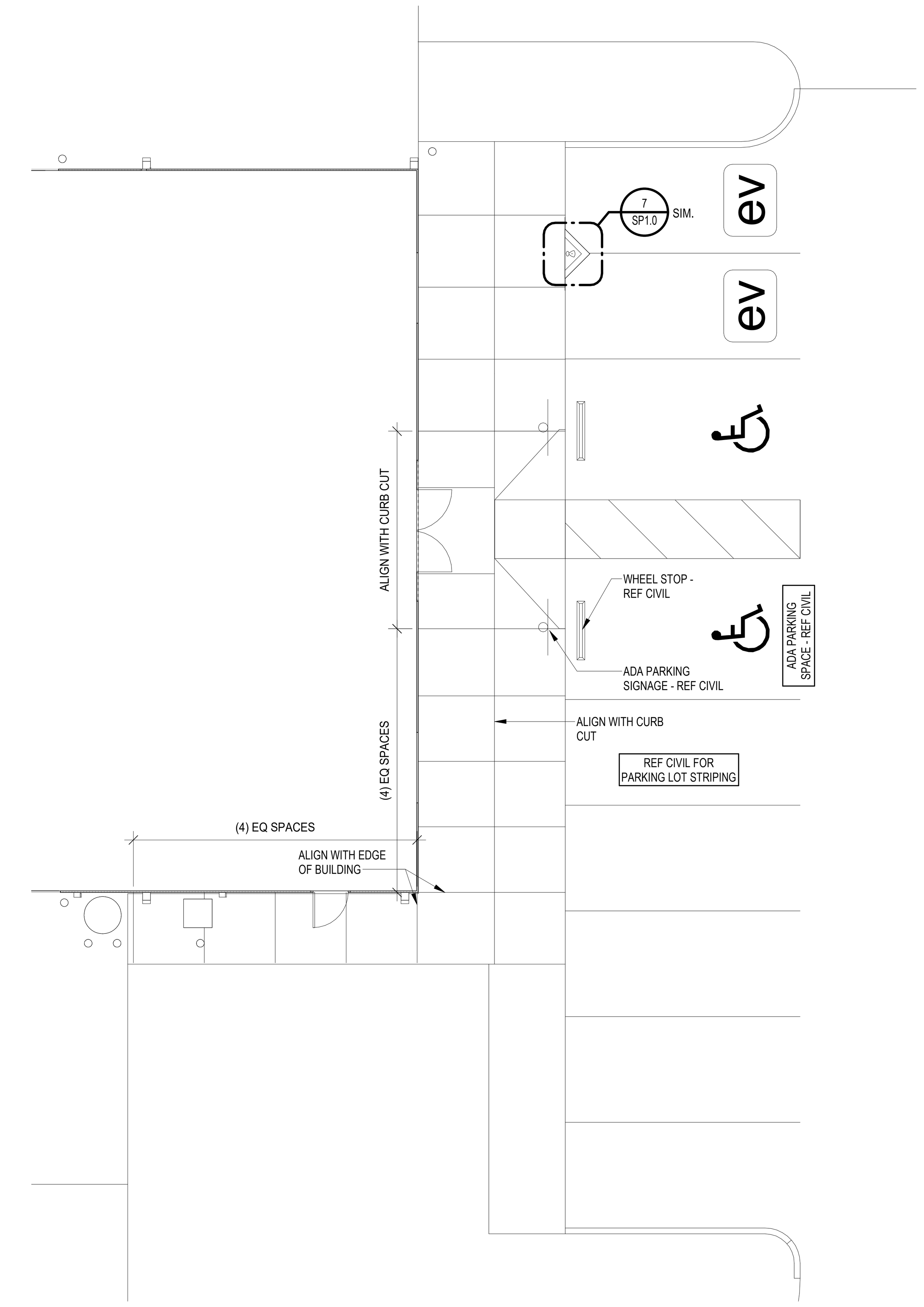


5 SIDEWALK DETAILS
1" = 1'-0"

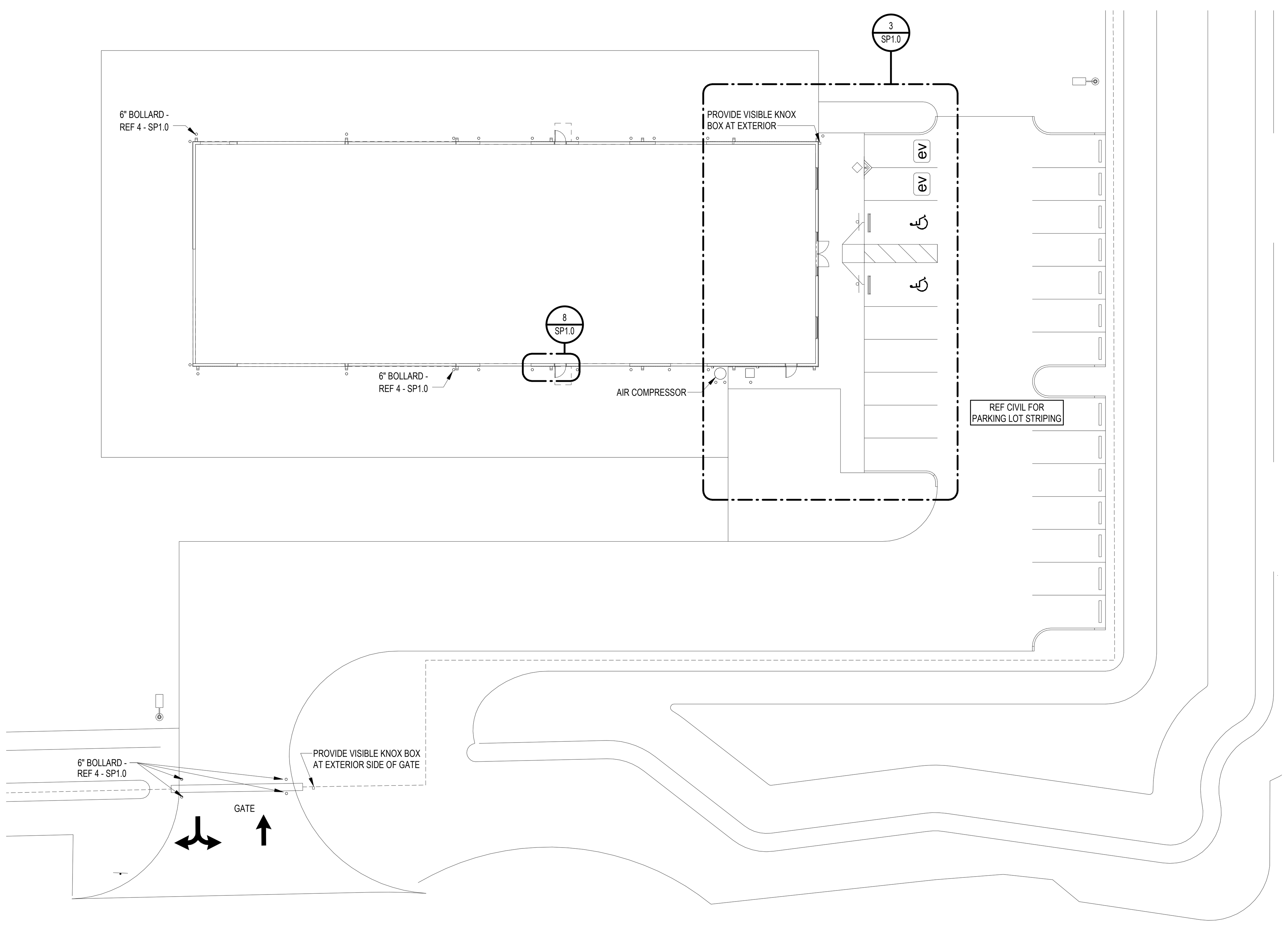


REFERENCE EXTERIOR ELEVATIONS FOR PAINT LEGEND

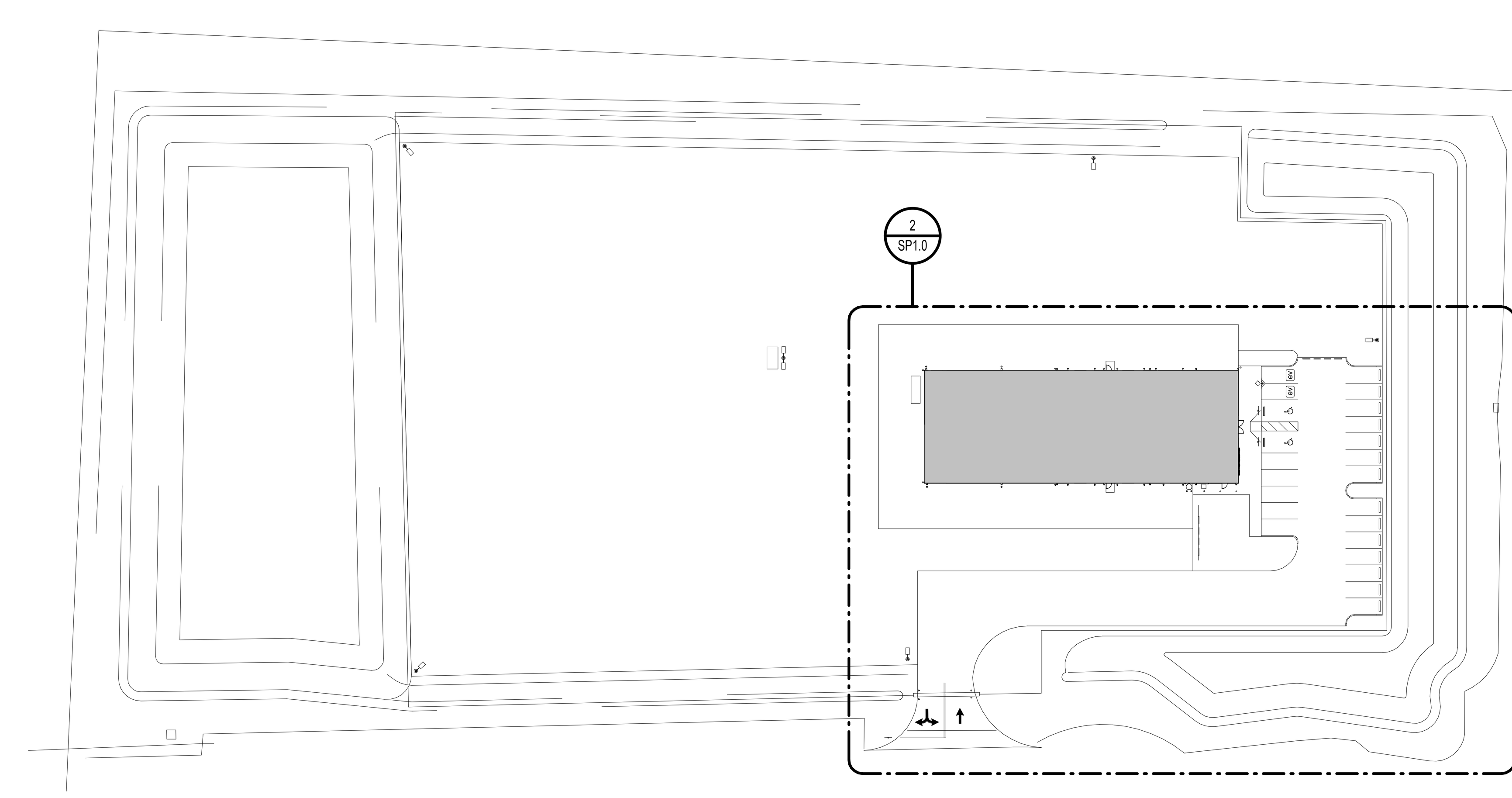
4 6" BOLLARDS
3/4" = 1'-0"



3 SIDEWALK PLAN
1/8" = 1'-0"
N



2 OVERALL SITE PLAN
1" = 20'-0"
N



1 SITE KEY PLAN
1" = 60'-0"
N

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PR4	PR4	04.25.2024

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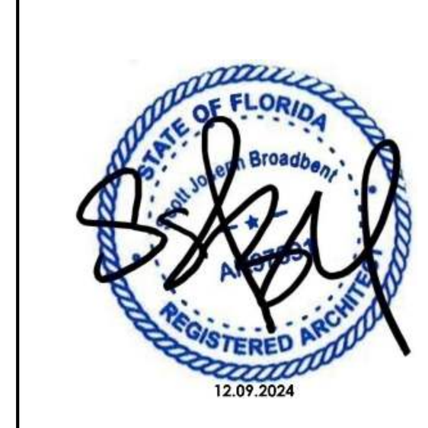
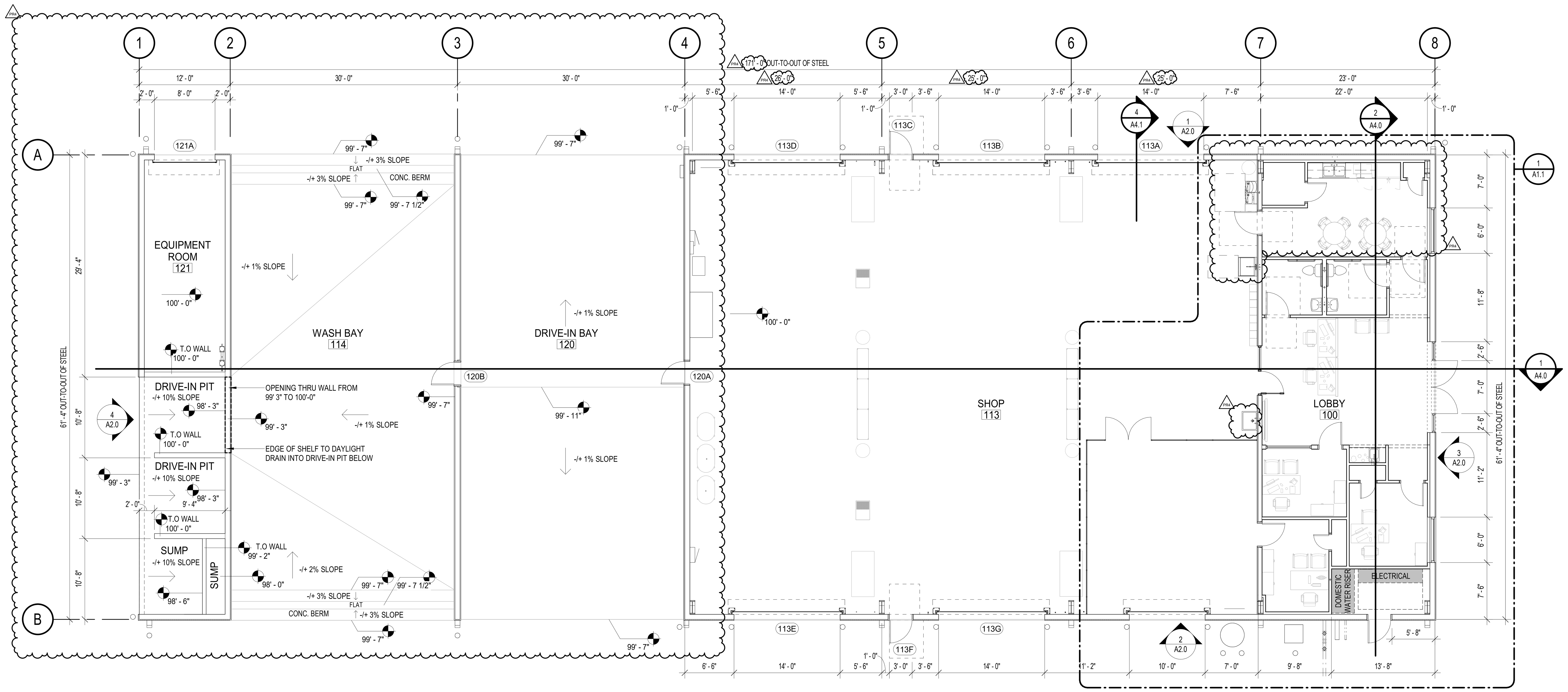


SITE PLAN, SIDEWALK PLAN & DETAIL

SHEET:
SP1.0



1 OVERALL FLOOR PLAN

1/8" = 1'-0"

PR1 - ADDED ATTACHED WASHBAY.

PR2 - REMOVED ATTACHED WASHBAY.

PR3 - ADDED EXTERIOR CANOPY.
REMOVED (2) REDUNDANT BOLLARDS AT REAR CORNERS OF BUILDING ALONG GRIDLINE 1.

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PR4	PR4	04.25.2024

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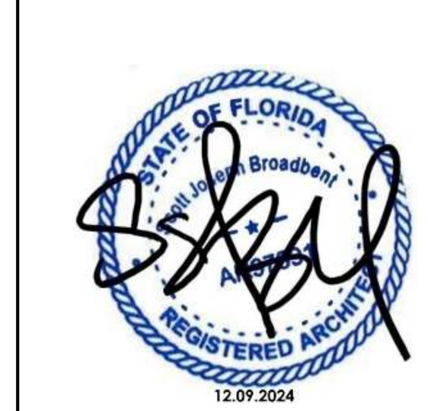


FLOOR PLANS

SHEET: A1.0

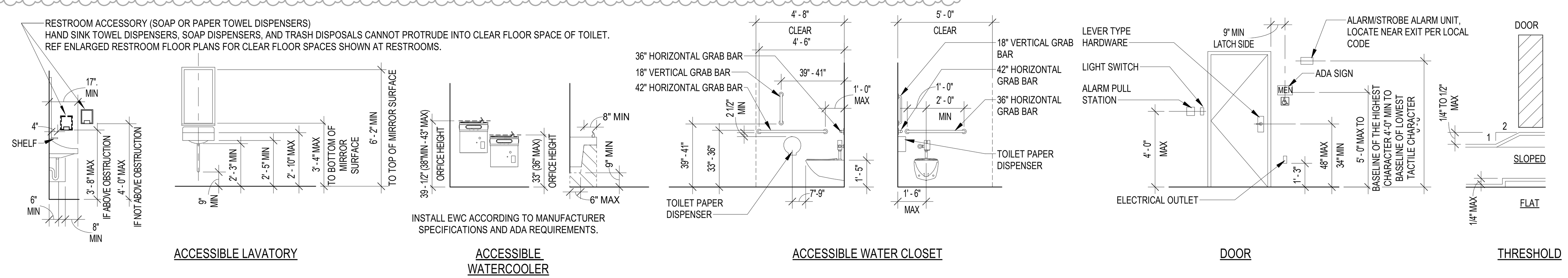
RESTROOM EQUIPMENT RESPONSIBILITY MATRIX			
EQUIPMENT	GC PROVIDED	VENDOR PROVIDED	NOTES
ADA COMPLIANT RESTROOM GRAB BARS	**Bradley 812 Series**	X	GC INSTALLED
MIRRORS	**Bradley 780 Series**	X	GC INSTALLED
WALL MOUNTED LAVATORIES	X		
FLOOR MOUNTED TOILETS	X		
PAPER TOWEL DISPENSER		X	
SOAP DISPENSER		X	
TOILET PAPER DISPENSERS		X	

SOURCE GRAB BARS & RR MIRRORS VIA BELOW VENDOR

Nat. Accts. New Construction Team (NAC)
Phone: 888-722-3667 Ext. 2087
Email: EquipmentShareDoors@DHPace.com

ACCESSIBILITY REQUIREMENTS - GENERAL NOTES

1. ALL MANUALLY OPERATED FIXTURES TO BE LEVER TYPE CONTROL.
2. GRAB BAR AND SEAT SHALL WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY POINT.
3. PROVIDE 1 1/2" CLEARANCE BETWEEN GRAB BAR AND WALL.
4. HOT WATER AND DRAIN PIPES UNDER LAVATORY SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
5. PROVIDE 30" WIDE FRONT-IN CLEARANCE FOR WHEELCHAIR ACCESS AT SINK AND URINAL.
6. ALL SIGNAGE SHALL COMPLY WITH ADA AND TAS.
7. ADJUST ALL DOOR CLOSURES TO A MAXIMUM OF 5 LBS OF FORCE.
8. ACCESSIBLE TOILET COMPARTMENT TO HAVE A SELF CLOSING DOOR.

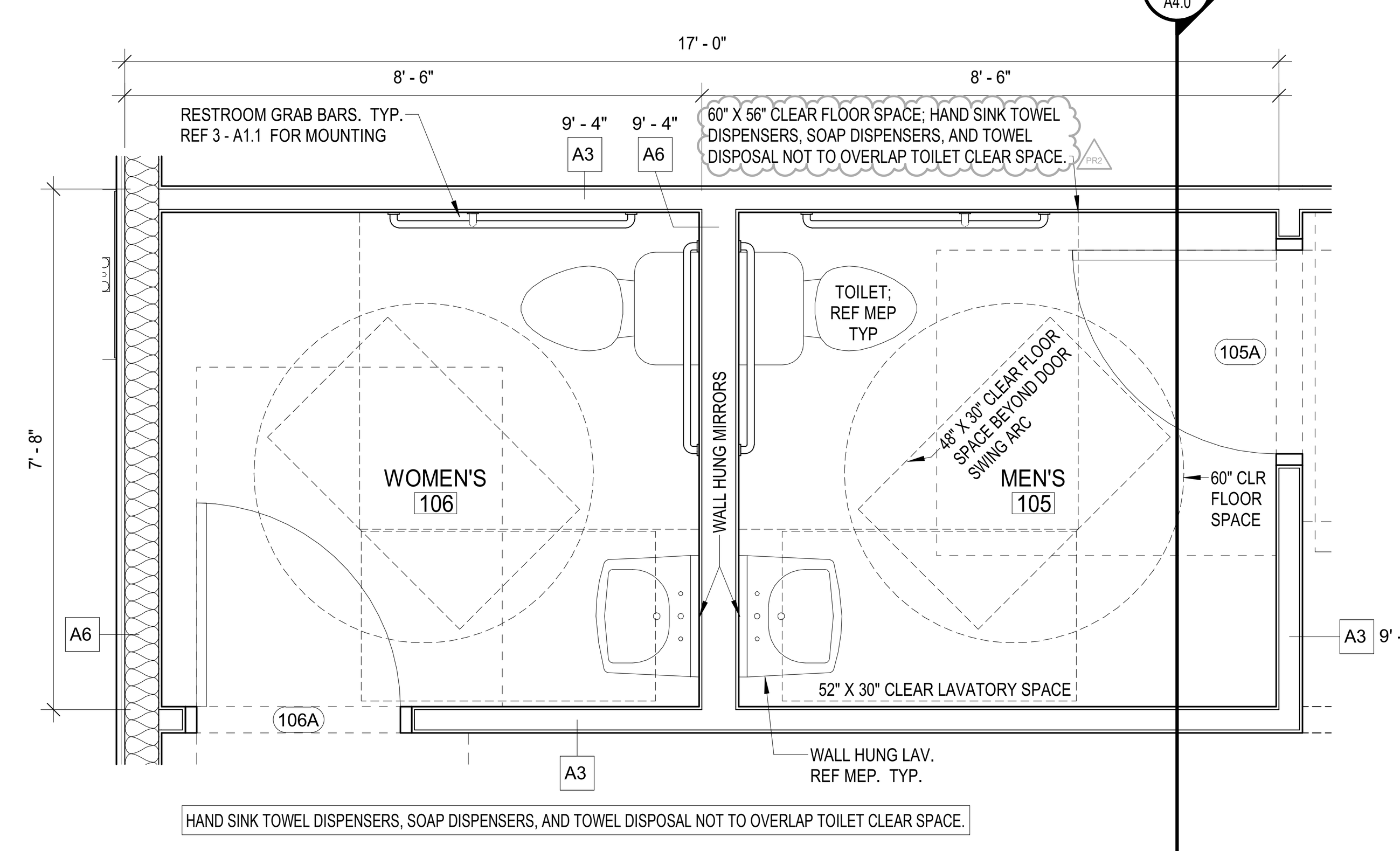


RESTROOM SOAP DISPENSERS, PAPER TOWEL DISPENSERS, AND TRASH DISPOSALS (IF PROVIDED) ARE TO BE PROVIDED AND LOCATED BY VENDOR. OBJECTS NOT TO VIOLATE PROTRUDING OBJECT REQUIREMENTS.

ADDED ACCESSIBILITY REQUIREMENTS FOR ACCESSIBLE WATERCOOLER

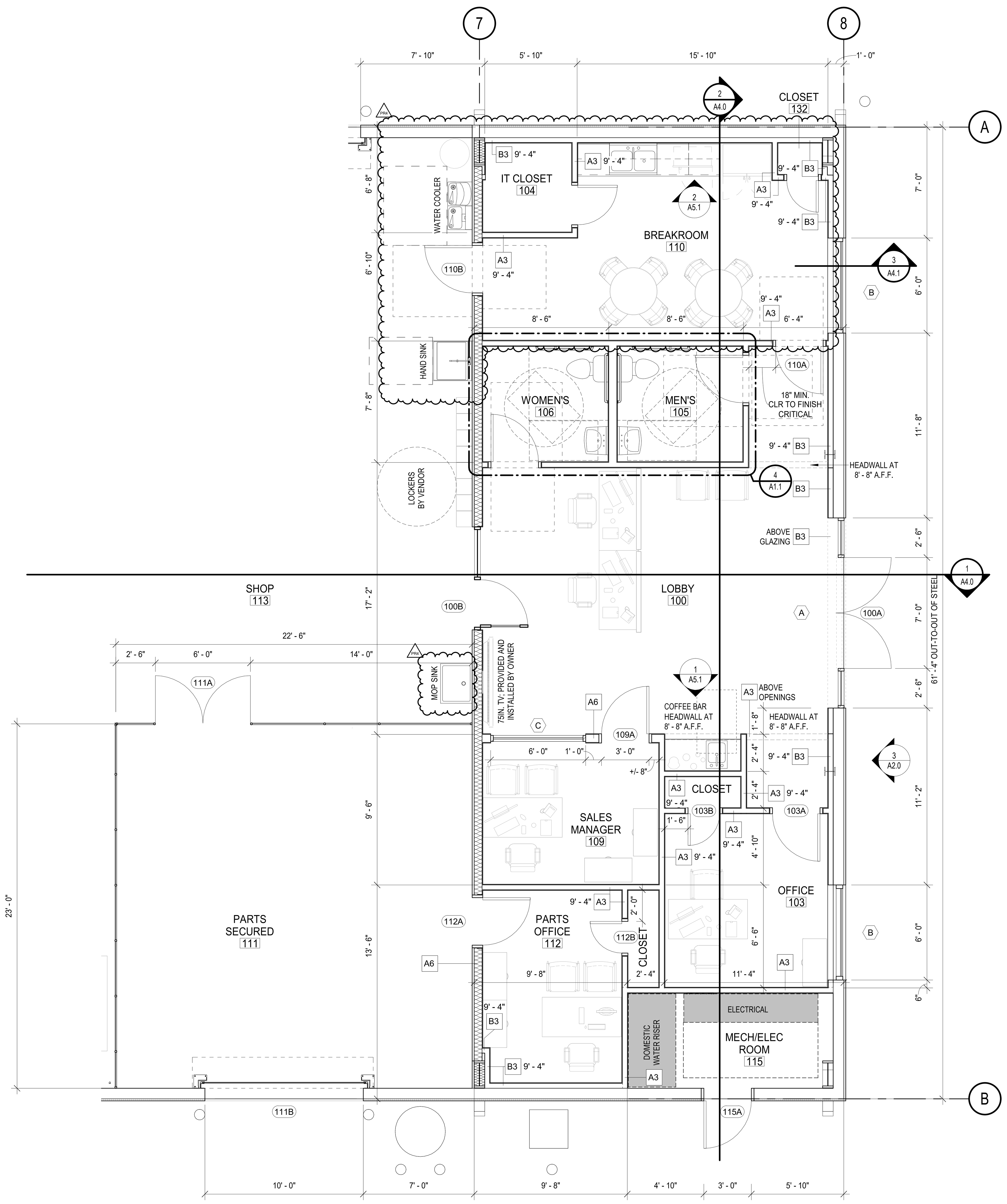
3 ACCESSIBILITY REQUIREMENTS

1/4" = 1'-0"



4 ENLARGED RESTROOM PLAN

1/2" = 1'-0"



1 ENLARGED FLOOR PLAN

1/4" = 1'-0"

PR1 - ADDED ATTACHED WASHBAY.

PR2 - REMOVED ATTACHED WASHBAY.
RELOCATED HAND SINK, WATER COOLER, AND MOP SINK.

PR4 - REMOVED DETAIL 2 FROM SET

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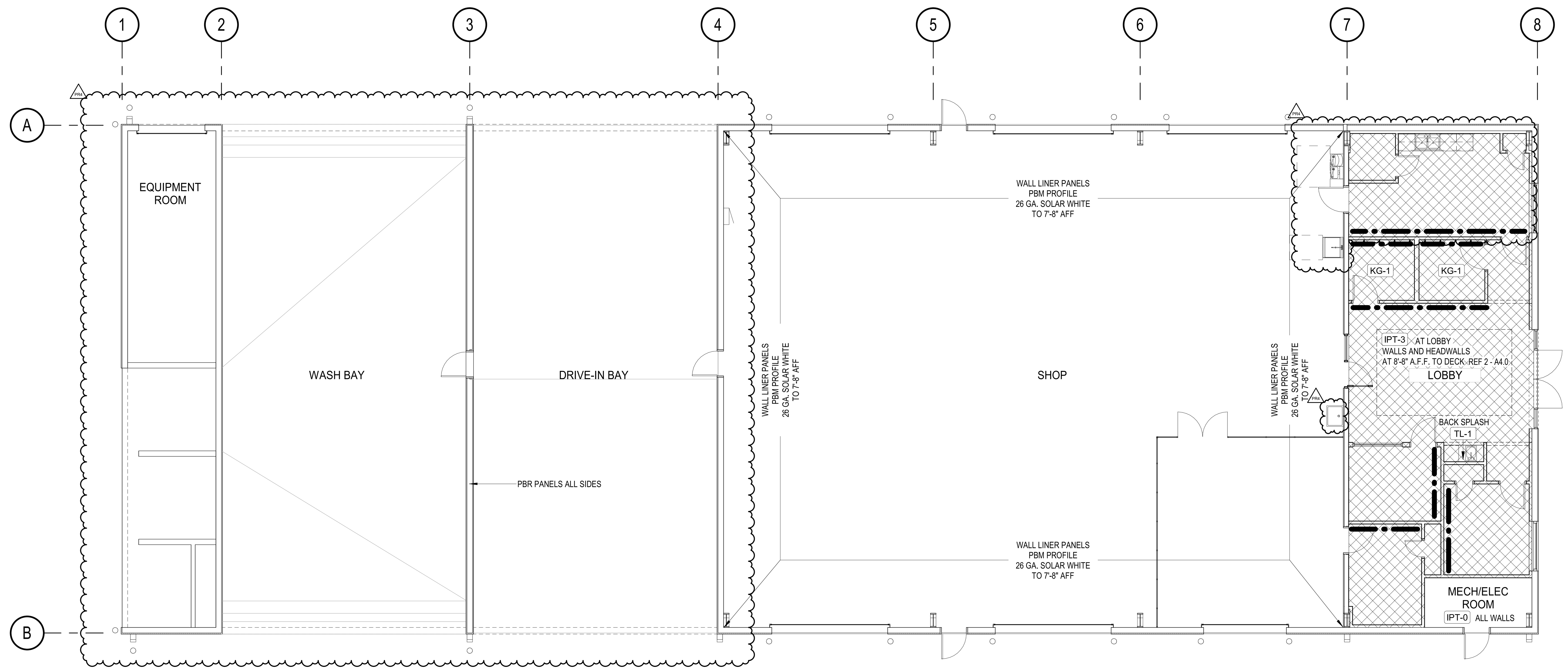
ENLARGED FLOOR PLANS

SHEET: A1.1

INTERIOR FINISH SCHEDULE:

BASE:	
RB - 1	**VINYL BASE - ALL WALLS NOT INDICATED WITH PT-0** ROPPE (OR EQUAL) 4" COVE FOOT COLOR : 100 BLACK
WALLS (LEVEL 4 FINISH ON ALL PAINTED GYP BOARD SURFACES):	
IPT - O	**NO PAINT AND NO WALL BASE - TAPE AND FLOAT ONLY- LOCATIONS SHOWN IN PLAN**
IPT - 1	**PAINT - WALL FIELD COLOR - ALL GYP SURFACES NOT INDICATED WITH PT-2 OR PT-0** BENJAMIN MOORE COLOR: OC-52 GRAY OWL, EGGSHELL
IPT - 2	**PAINT - INTERIOR WALL ACCENT COLOR, INTERIOR HM DOORS, AND EXPOSED MAIN FRAMES** BENJAMIN MOORE COLOR: 1474 CAPE MAY COBBLESTONE, SEMIGLOSS **ACCENT WALLS INDICATED IN PLAN VIA:**
IPT - 3	**PAINT - INTERIOR HM DOOR FRAMES AND SHOW ROOM EXPOSED PURLINS** BENJAMIN MOORE COLOR: 2135-10 BLACKTOP, SEMIGLOSS
KG - 1	**KEMLITE GLASBORD FIBERGLASS REINFORCED PLASTIC (FRP)** COLOR: WHITE TEXTURE: SMOOTH HEIGHT:4' - 0" AFF
MILLWORK/CABINETS:	
PL - 1	**PLASTIC LAMINATE - COUNTER TOPS** FORMICA COLOR CORE COLOR: FOLKSTONE MATTE 927C-58
PL - 2	**PLASTIC LAMINATE - BASE CABINETS** FORMICA COLOR: STORM TEAKWOOD 890
TILE:	
TL - 1	**WALL TILE - COFFEE BAR BACK SPLASH** DALTILE KEYSTONES 2X4 MOSAIC COLOR: DESERT GRAY SPECKLE D200 GROUT: MAPEI ULTRACOLOR PLUS - SILVER GREY
CEILINGS:	
ACT - 1	**ACOUSTICAL CEILING TILE - REFERENCE RCP FOR LOCATIONS AND HEIGHTS** SQUARE LAY-IN ACOUSTICAL CEILING TILE, 15/16 2'-0" x 2'-0" COLOR: WHITE TILES WITH WHITE GRID REF SPECIFICATIONS
FLOOR FINISHES:	
CN - 1	**SEALED CONCRETE - SHOP AND WASH BAY FLOORS** 1. VACUUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 2. APPLY AMERIPOLISH 3D HS DENSIFIER, TO REJECTION. A. MINIMUM DWELL TIME OF 60 MINUTES, REAPPLY AS DENSIFIER IS ABSORBED. 3. VACUUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 4. APPLY TWO LIGHT COATS OF AMERIPOLISH SR2 PLUS STAIN RESISTOR. A. USE CLEAN MICROFIBER APPLICATOR. B. APPLY FIRST COAT AND ALLOW TO DRY TO-THE-TOUCH (APPROX. 7-12 MINUTES). C. APPLY SECOOND COAT AND ALLOW TO DRY TO-THE-TOUCH (APPROX. 7-12 MINUTES).
CN - 2	**POLISHED CONCRETE - OFFICE SPACES AND SHOWROOM FLOORS** 1. ASSESS CONDITION OF SLAB AND BEGIN THE GRINDING PROCESS WITH THE LIGHTEST GRIND POSSIBLE, USING NON-RESIN DIAMONDS, TO OPEN THE FLOOR TO ACCEPT DENSIFIER. 2. VACCUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 3. APPLY AMERIPOLISH 3D HS DENSIFIER, TO REJECTION. A. MINIMUM DWELL TIME OF 60 MINUTES, REAPPLY AS DENSIFIER IS ABSORBED. 4. WET GRIND WITH 100 GRIT RESIN-BONDED DIAMONDS. 5. VACUUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 6. CONTINUE THE POLISHING PROCESS WITH THE FOLLOWING GRITS, USING RESIN-BONDED DIAMONDS: A. 200, 400, 800, 1500 B. AFTER EACH STAGE, VACUUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 7. APPLY TWO LIGHT COATS OF AMERIPOLISSH SR2 PLUS STAIN RESISTOR. A. USE A CLEAN MICROFIBER APPLICATOR. B. APPLY FIRST COAT AND ALLOW TO DRY TO-THE-TOUCH (APPROX. 7-12 MINUTES). C. APPLY SECOND COAT AND ALLOW TO DRY TO-THE-TOUCH (APPROX. 7-12 MINUTES). 8. BURNISH FLOOR WITH 3000 GRIT DIAMOND PAD. APPLY TO ALL FLOORS SHOWN WITH:
	ALL ELECTRICAL DEVICES (SWITCHES, OUTLETS, FACEPLATES, ETC.) TO BE GRAY.



1 OVERALL FINISH PLAN
1/8" = 1'-0"

LOBBY FINISH NOTES

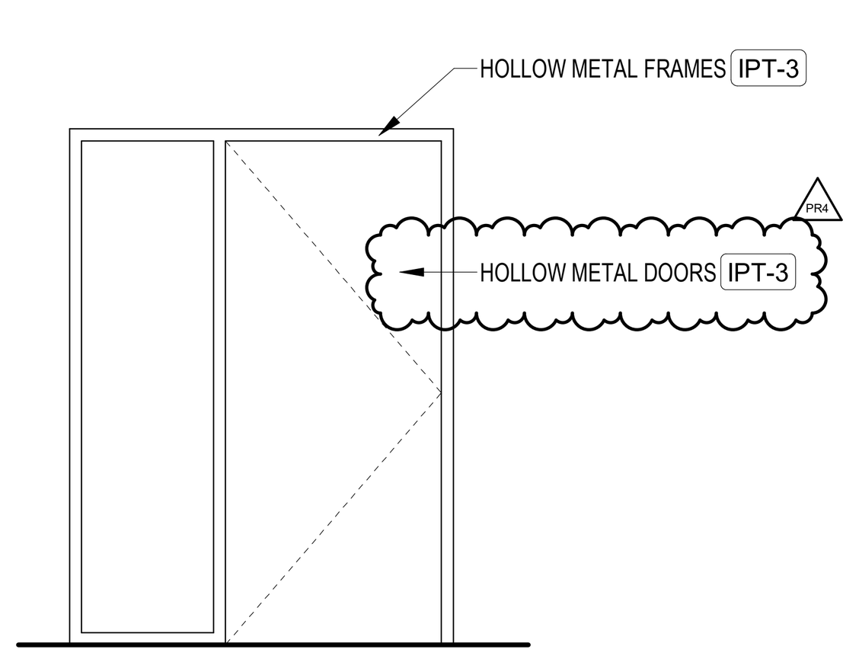
- LONG TAB BANDED INSULATION SYSTEM EXPOSED BLACK VINYL BETWEEN ROOF PURLINS
- PAINT EXPOSED PORTIONS OF PURLINS IPT-3
- PAINT EXPOSED MAIN FRAMES IN SHOWROOM IPT-3

FIXTURES & EXTERIOR ELEMENTS HIDDEN FOR CLARITY

PR1 - ADDED ATTACHED WASHBAY.

PR2 - REMOVED ATTACHED WASHBAY.

PR3 - ADDED EXTERIOR CANOPY.



2 DOOR/FRAME COLOR DIAGRAM
3/8" = 1'-0"

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EQUIPMENTSHARE - LAKE CITY, FL
US-90 & PRICE CREEK ROAD
LAKE CITY, FLORIDA

JOB NUMBER: 2023.0377

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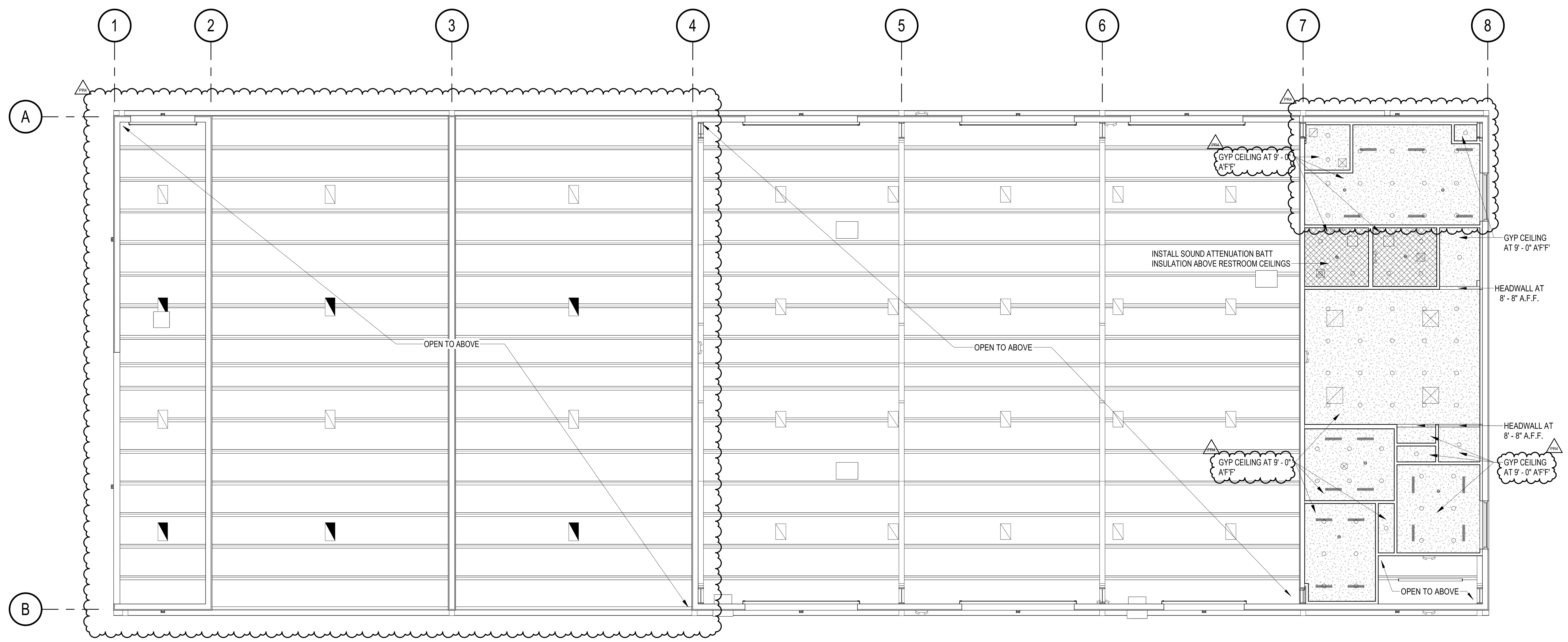
FINISH PLAN

SHEET: A1.2



1 REFLECTED CEILING PLAN

1/8" = 1'-0"

PR1 - ADDED ATTACHED WASHBAY.

PR2 - REMOVED ATTACHED WASHBAY.

PR3 - ADDED EXTERIOR CANOPY.

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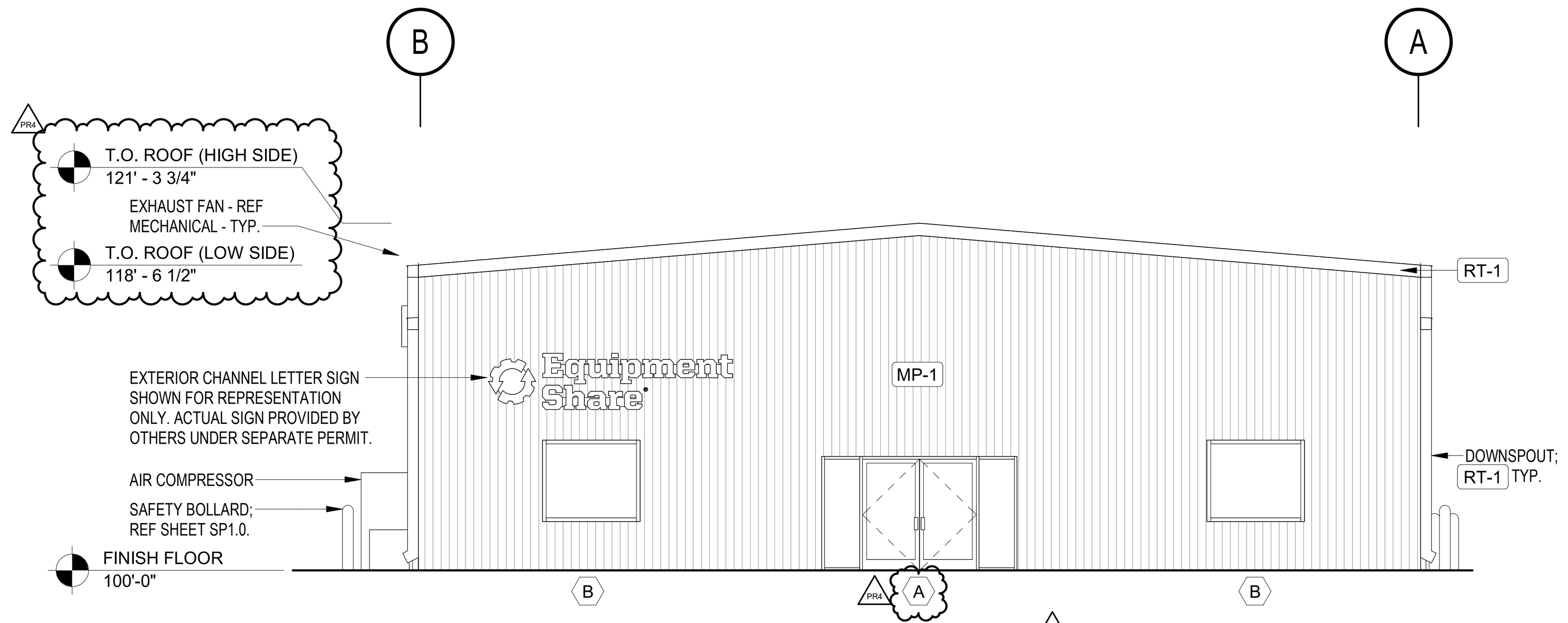
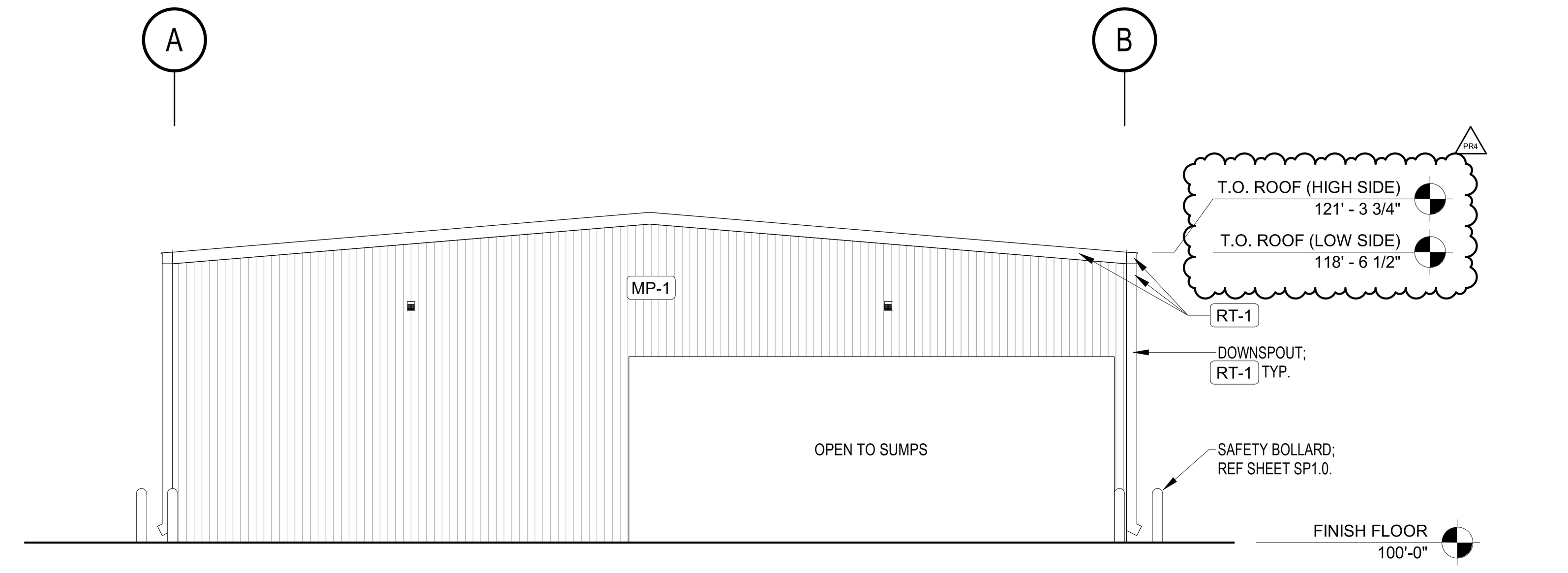
STATE OF FLORIDA · Scott Joseph Broadbent · REGISTERED ARCHITECT · 12.09.2024

REFLECTED CEILING PLANS

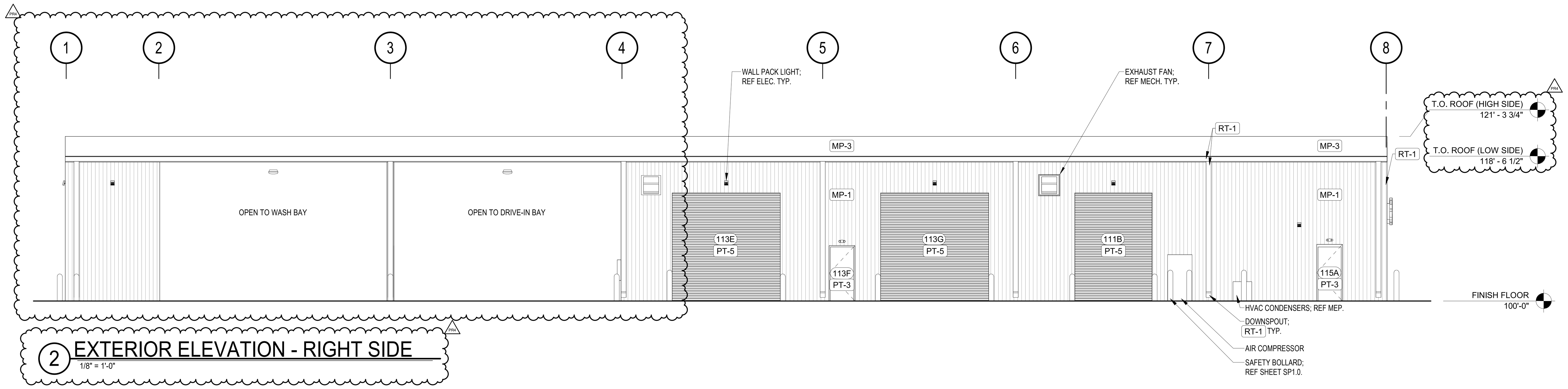
SHEET: A1.3



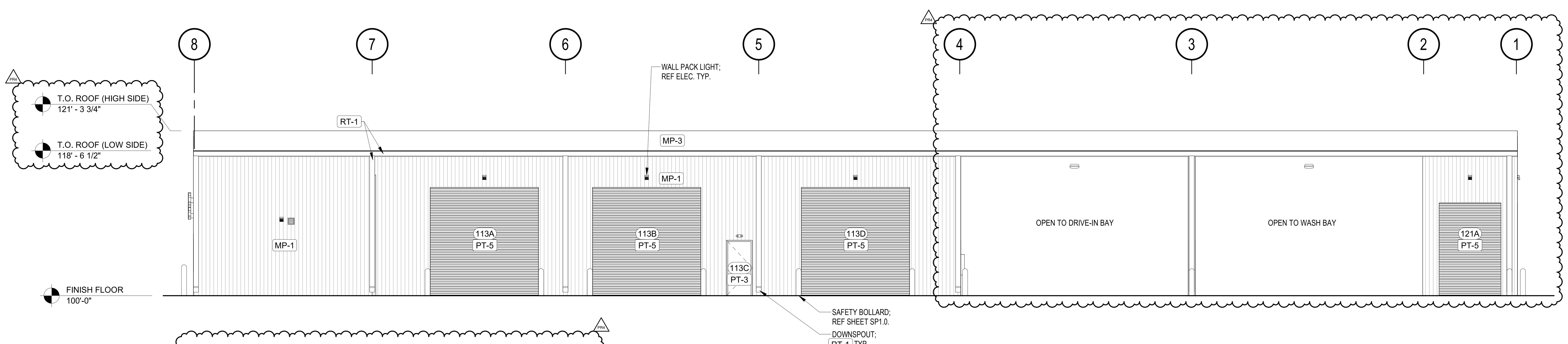
3 EXTERIOR ELEVATION - FRONT
1/8" = 1'-0"



4 EXTERIOR ELEVATION - REAR
1/8" = 1'-0"



2 EXTERIOR ELEVATION - RIGHT SIDE
1/8" = 1'-0"



1 EXTERIOR ELEVATION - LEFT SIDE
1/8" = 1'-0"

EXTERIOR FINISH LEGEND

SYMBOL	MATERIAL
MP-1	PRE-FINISHED METAL PANEL - CHARCOAL GRAY - MBCI SPEC 200 PREMIUM COLOR
MP-2	PRE-FINISHED METAL PANEL - TUNDRA MBCI SIGNATURE 300
MP-3	PRE-FINISHED METAL PANEL - SOLAR WHITE - MBCI SPEC 200 STANDARD COLOR (ROOF)
RT-1	PRE-FINISHED METAL TRIM - MIDNIGHT BRONZE - MBCI SIGNATURE 300
PT-1	PAINT TO MATCH - CHARCOAL GRAY - MBCI SPEC 200 PREMIUM COLOR
PT-2	PAINT TO MATCH - TUNDRA - MBCI SIGNATURE 300
PT-3	BENJAMIN MOORE - BLACK BEAUTY 2128-10 SEMIGLOSS
PT-4	SHERWIN WILLIAMS 6886 INVIGORATE SEMIGLOSS
PT-5	PRE-FINISHED STEEL OVERHEAD DOOR GRAY

REMOVED PT-6 FINISH

GENERAL NOTES:
METAL ROOF TRIM TO BE PREFINISHED PT-3.

MATERIAL LEGEND

METAL BUILDING PANEL - PBR PANEL (24 GA.) MP-1
FLORIDA PRODUCT APPROVAL NUMBER: FL15137.1

METAL BUILDING PANEL - PBR PANEL (24 GA.) MP-3
FLORIDA PRODUCT APPROVAL NUMBER: FL15282.3

STOREFRONT GLAZING FLORIDA PRODUCT APPROVAL NUMBERS:
STOREFRONT SYSTEM: FL17688
STOREFRONT DOOR: FL17692

REF SHEET A6.0 FOR WINDOW AND STOREFRONT FINISHES AND GLAZING TYPES.

EXTERIOR CANOPY PROVIDED BY GC.
SUPPLIER CONTACT INFORMATION:
LANE SUPPLY, INC.

Lawrence Prater
Customer Service Manager
Lane Supply, Inc.
120 Fairview
Arlington, Texas 76010
Office: (817) 261-9116
Cell: (817) 291-5248

GENERAL NOTES:

1. BUILDING ADDRESS SHALL BE POSTED ON THE BUILDING AND VISIBLE TO THE PUBLIC ROADWAY.
2. ALL EXPOSED CONDUITS SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.

PR1 - ADDED ATTACHED WASHBAY.
PR2 - REMOVED ATTACHED WASHBAY.
PR3 - ADDED EXTERIOR CANOPY.

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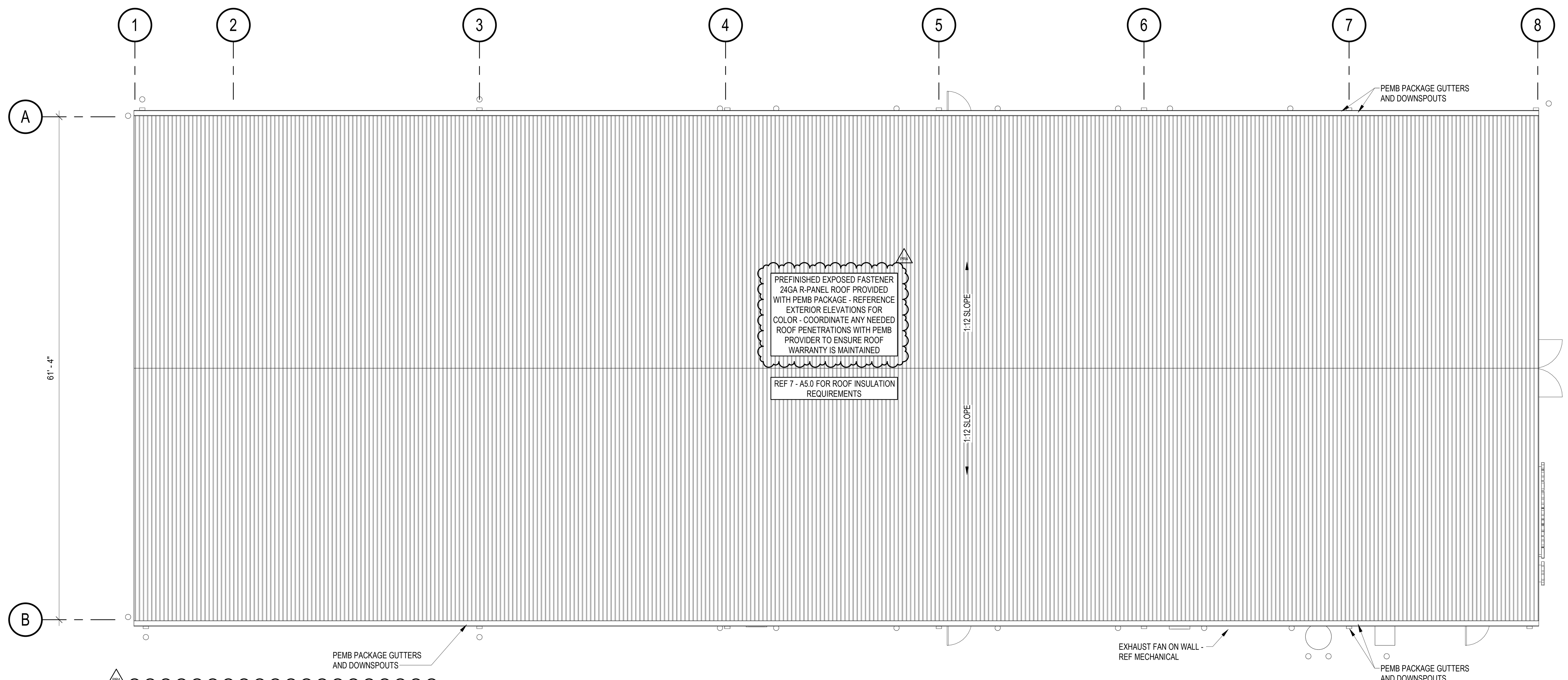
EXTERIOR ELEVATIONS

SHEET: A2.0

GENERAL ROOF PLAN NOTES

1. REF MEP DRAWINGS FOR PENETRATION LOCATIONS; NOT ALL PENETRATIONS ARE SHOWN ON THIS PLAN. COORDINATE ALL PENTRATION FLASHING WITH PEMB PROVIDER TO ENSURE WARRANTY REQUIREMENTS ARE UPHELD.
2. MECHANICAL INFORMATION SHOWN ON THIS DRAWING IS FOR GENERAL COORDINATION ONLY; REF MEP DRAWINGS.
3. REFER TO PEMB PACKAGE FOR ANY ROOF FLASHING AND WEATHERPROOFING DETAILS.
4. ROOF INSULATION PROVIDED BY THE PEMB PROVIDER, AND INTENDED TO COMPLY WITH ALL APPLICABLE ENERGY CODE REQUIREMENTS FOR CONDITIONED PORTIONS OF BUILDING.
5. ROOF PANEL COLOR TO COMPLY WITH ENERGY CODE REQUIREMENTS FOR LOW SLOPED ROOFING.



PR4

1 OVERALL ROOF PLAN

1/8" = 1'-0"

PLANS REVISED EXTENSIVELY; REVIEW THUROUGHLY

PR1 - ADDED ATTACHED WASHBAY.

PR2 - REMOVED ATTACHED WASHBAY.

PR3 - ADDED EXTERIOR CANOPY.

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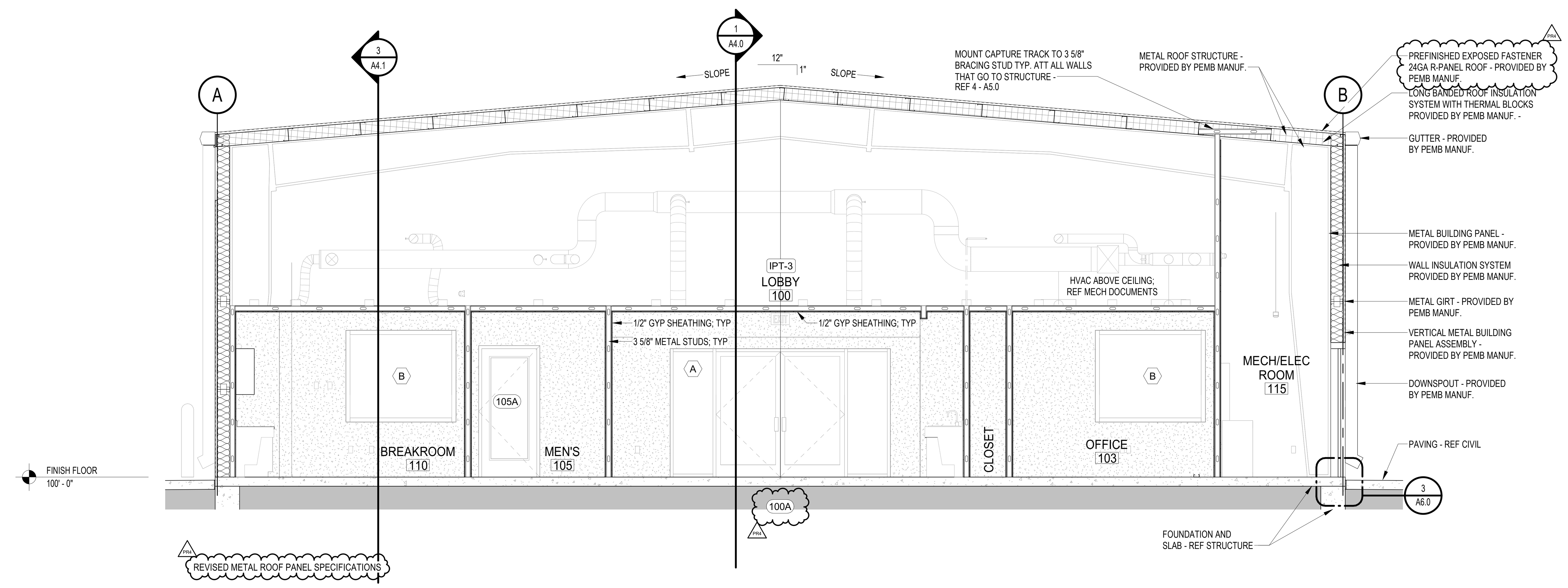
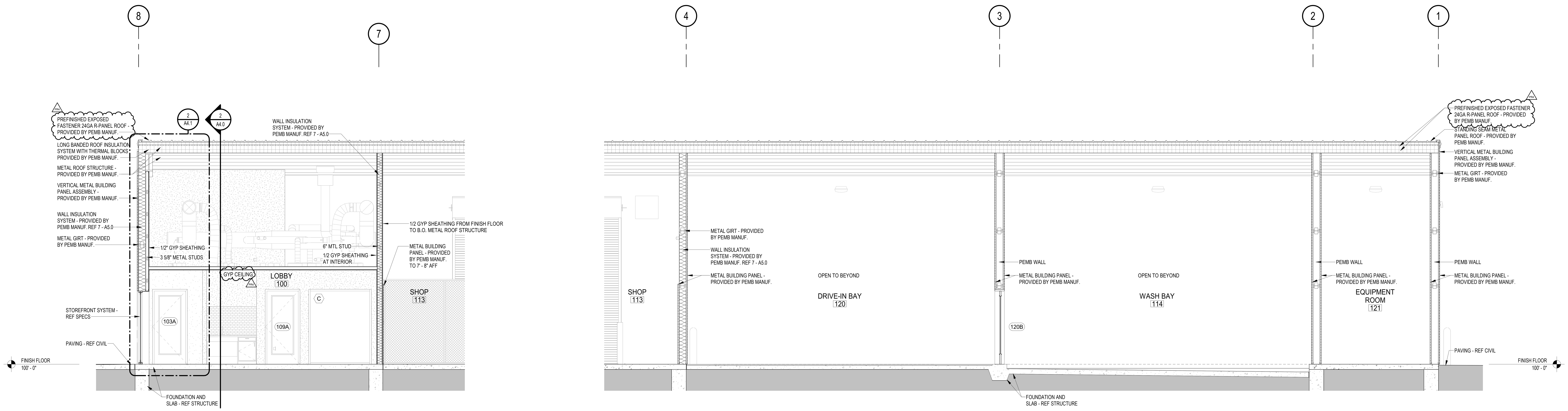
ROOF PLAN

SHEET:
A3.0



2 BUILDING SECTION
1/4" = 1'-0"



1 BUILDING SECTION
1/4" = 1'-0"

REVISED METAL ROOF PANEL SPECIFICATIONS

PR1 - ADDED ATTACHED WASHBAY.

PR2 - REMOVED ATTACHED WASHBAY.

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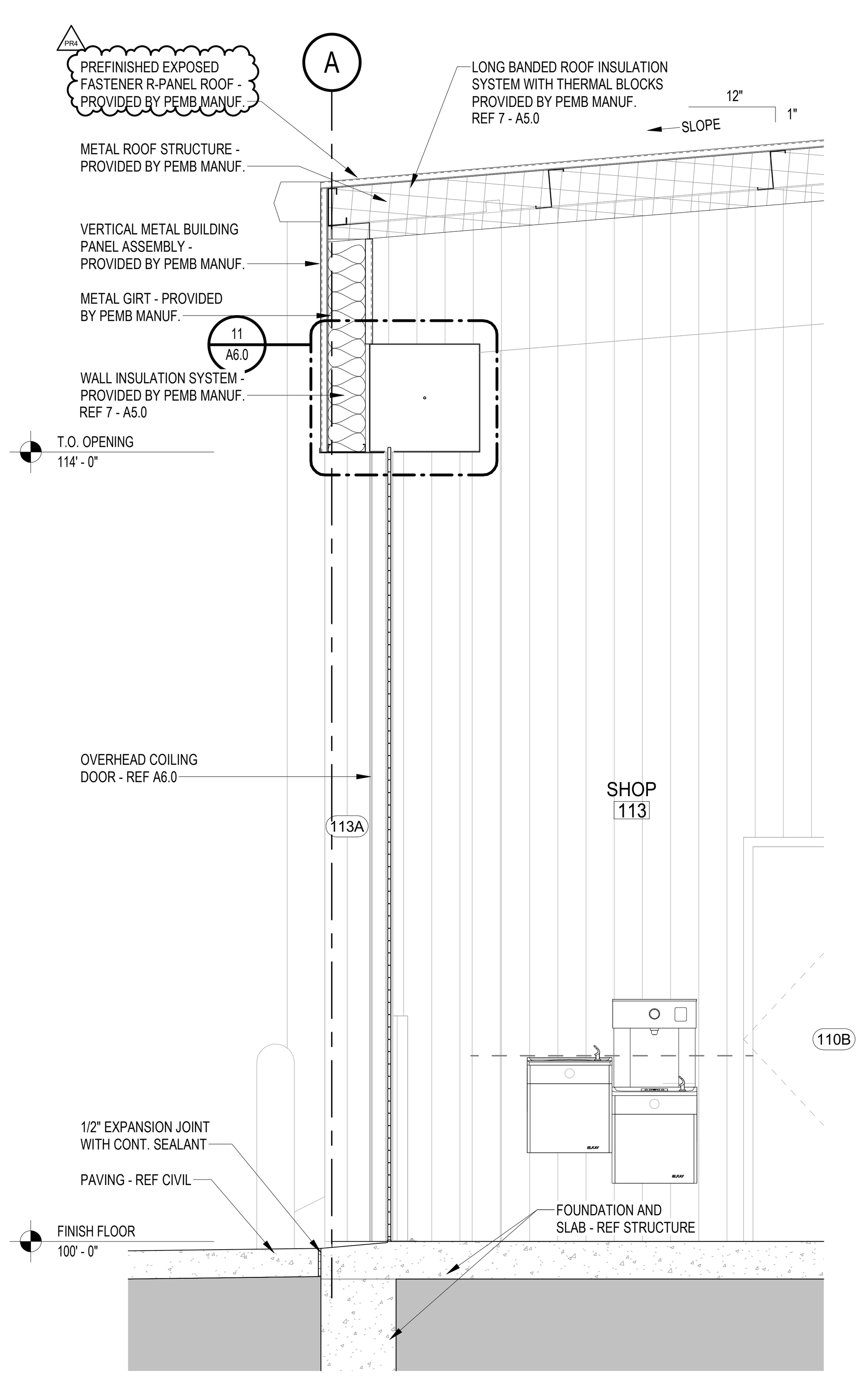
WALL SECTIONS

SHEET:
A4.0

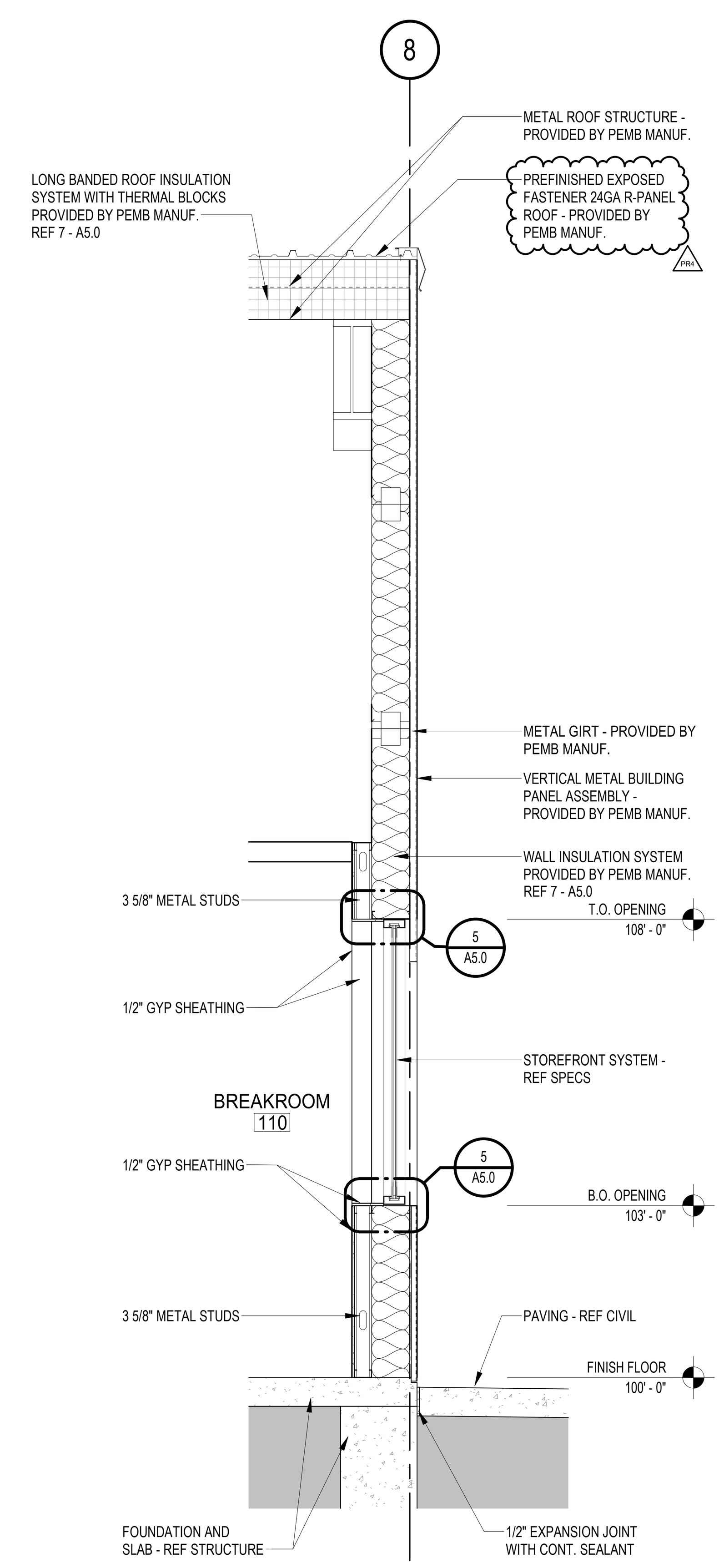
PR1 - ADDED ENLARGED WASHBAY DETAILS

PR2 - REMOVED ENLARGED WASHBAY DETAILS

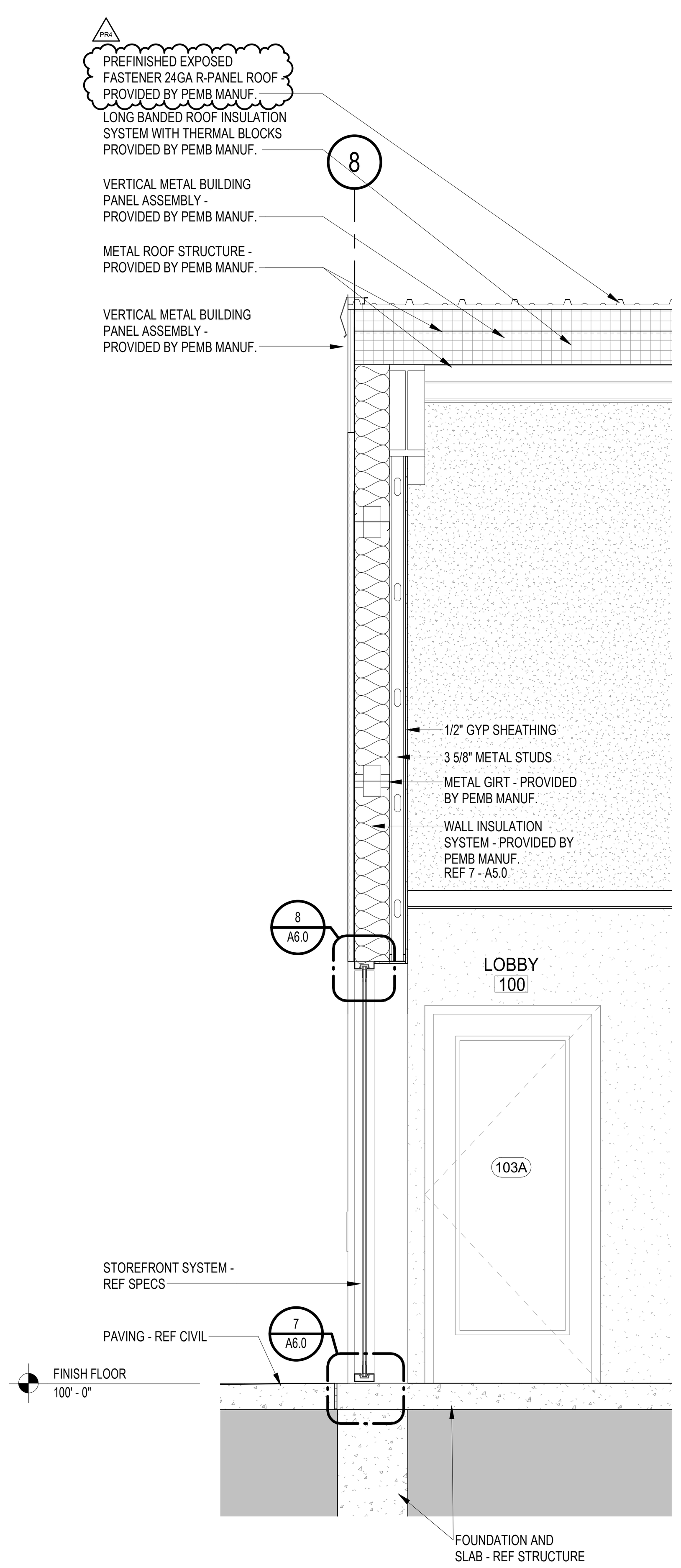
REMOVED DETAIL 5 FROM SET.



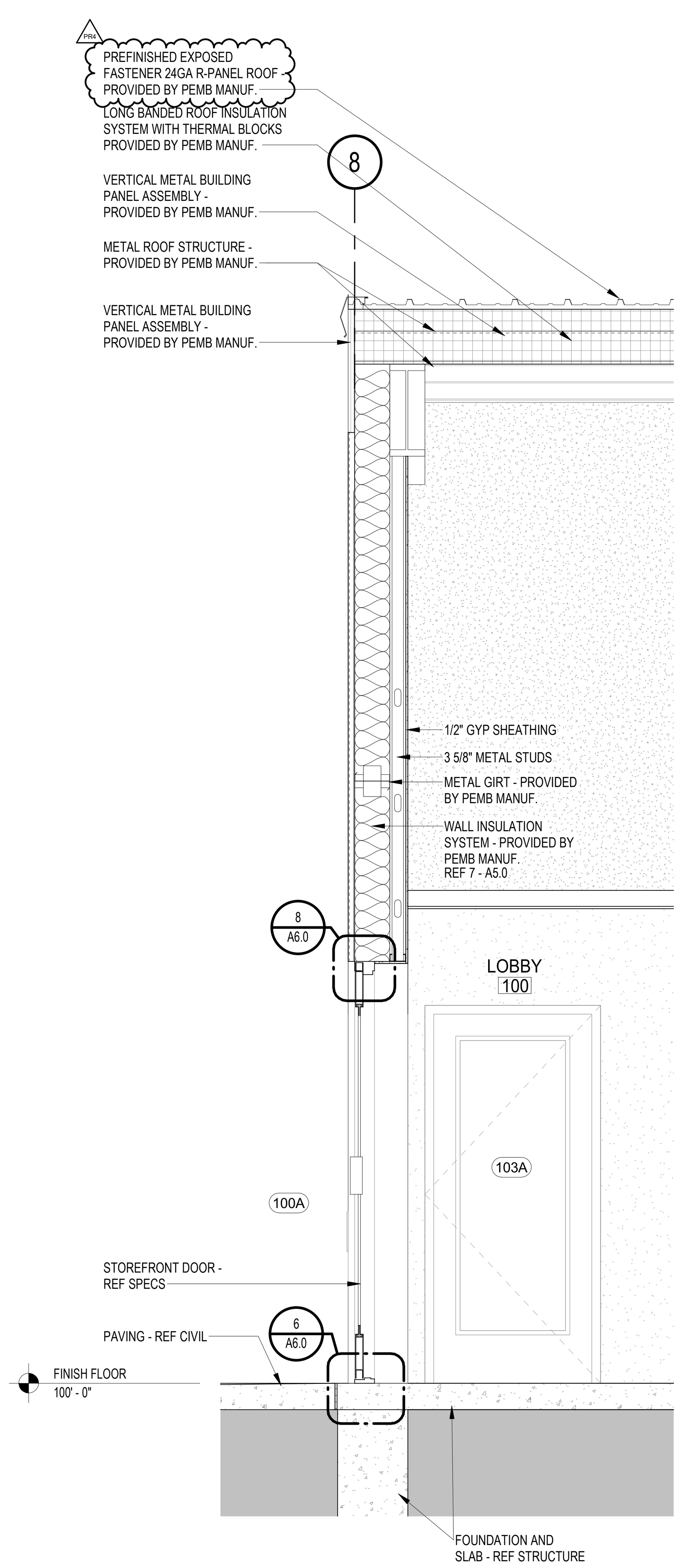
4 SECTION AT OVERHEAD DOOR
1/2" = 1'-0"



3 SECTION AT WINDOW AND FURRING
1/2" = 1'-0"



2 BUILDING SECTION AT STOREFRONT
1/2" = 1'-0"



1 SECTION AT STOREFRONT DOOR
1/2" = 1'-0"

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WALL SECTIONS

SHEET:
A4.1

GENERAL NOTES

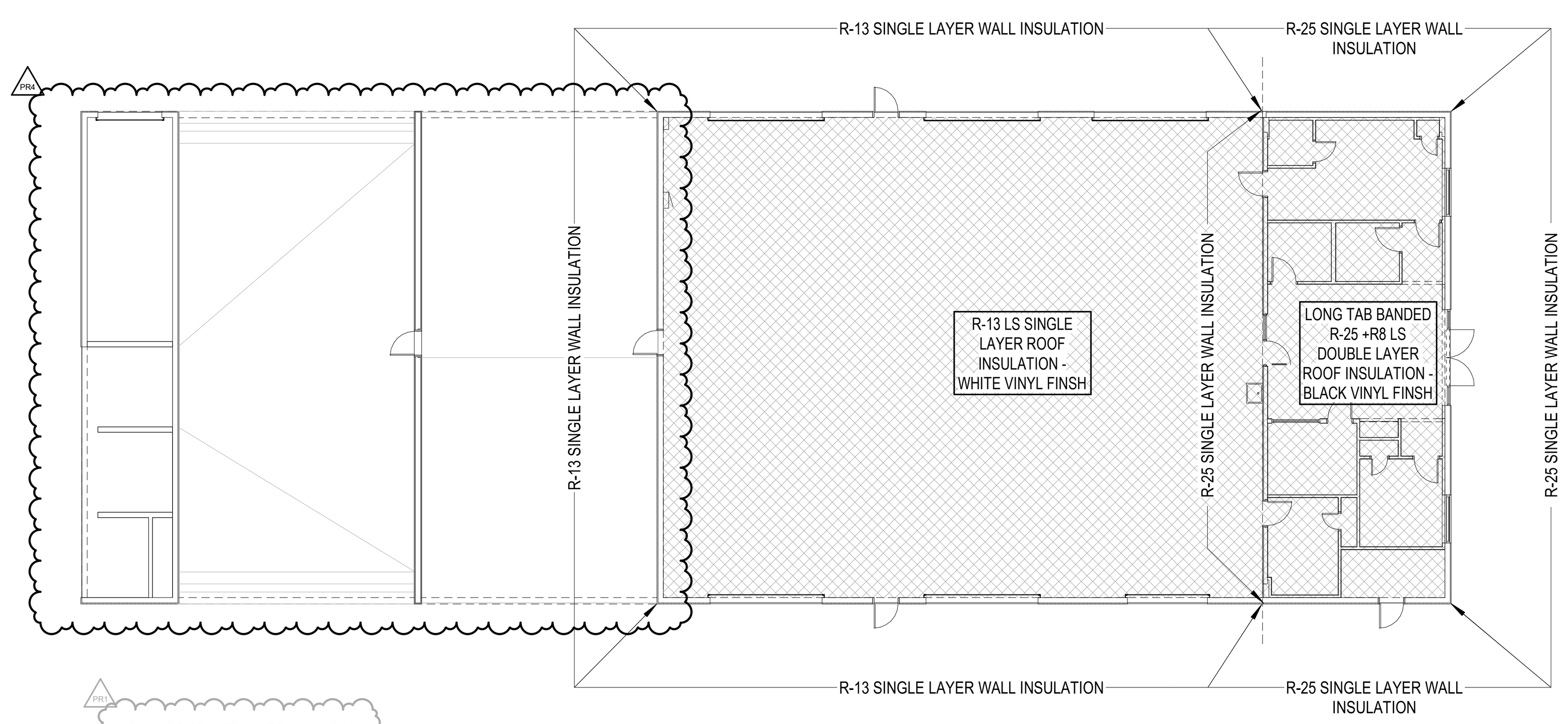
1. REFER TO INTERIOR FINISH PLANS FOR LOCATION OF WAINSCOT AND ALL INTERIOR FINISHES.
2. REFER TO STRUCTURAL FOR LOAD BEARING PARTITIONS.
3. ANY FREESTANDING WALL OR END WALL EXCEEDING 6'-0" IN LENGTH SHOULD BE BRACED AS FOLLOWS:
   A. 3"x3" STEEL TUBE AT 6'-0" OC MAX TO FULL HEIGHT OF STUD.
   B. ANCHOR WITH 3"x3"x1/4" CLIP ANGLE WELDED TO STEEL TUBE EACH SIDE. MOUNT INTO SLAB WITH HILTIHY-150 ADHESIVE.
   C. STEEL TUBE SUPPORTS TO BE LOCATED 6" FROM THE END OF THE WALLS.
4. PROVIDE CASING BEADS AT ALL EXPOSED GYPSUM BOARD EDGES. TOP OF WALLS AND END CAPS WHERE FINISH DOES NOT TURN.
5. BUILDING ENVELOPE INSULATION PROVIDED BY PEMB MANUFACTURER AND COMPLY WITH APPLICABLE BUILDING AND ENERGY CODE REQUIREMENTS.

PARTITION TAG LEGEND

PARTITION
PROVIDE SOUND ATTENUATION INSULATION WHERE SHOWN IN PLAN
NUMBER INDICATES STUD SIZE AS FOLLOWS:
1 = 1-5/8" METAL STUDS
2 = 2-1/2" METAL STUDS
3 = 3-5/8" METAL STUDS
6 = 6" METAL STUDS
8 = 8" METAL STUDS
FIRE RATING (IF APPLICABLE)
1 A3 9'-2"
LETTER INDICATED PARTITION TYPE - REF PARTITION TYPE DETAILS
REFERENCE THE INTERIOR PARTITION SPAN TABLE FOR STUD GAUGE AND SPACING
PARTITION FRAMING HEIGHT - NO NUMBER INDICATES THAT THE WALL IS INTENDED TO EXTEND TO BOTTOM OF ROOF DECK OR MEZZANINE ABOVE

METAL STUD HEIGHT/GAUGE TABLE

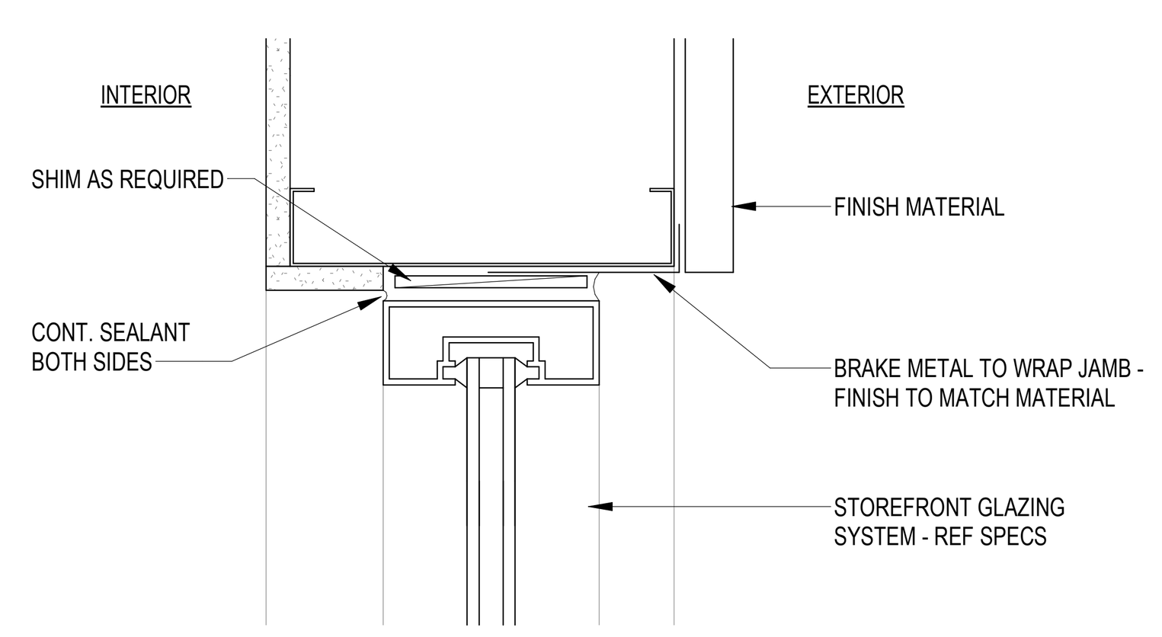
SIZE	GAUGE	TYPE	MAX UNSUPPORTED HIEGHT	
			16" OC	24" OC
1 5/8"	25	ST	9'-6"	8'-3"
2 1/2"	25	ST	12'-6"	10'-9"
	22	ST	13'-0"	11'-6"
	20	ST	13'-10"	12'-0"
3 5/8"	25	ST	16'-0"	13'-6"
	22	ST	17'-3"	15'-0"
	20	ST	17'-11"	15'-7"
	20	SJ	18'-6"	16'-9"
	18	SJ	19'-3"	
	16	SJ	20'-0"	
	14	SJ	22'-0"	
4"	25	ST	17'-3"	14'-3"
	22	ST	18'-6"	16'-3"
	20	ST	19'-2"	16'-10"
	20	SJ	19'-10"	18'-10"
	18	SJ	20'-7"	
	16	SJ	22'-0"	
	14	SJ	24'-0"	
6"	25	ST	20'-0"	15'-0"
	22	ST	25'-3"	22'-0"
	20	ST	26'-1"	22'-10"
	20	SJ	26'-8"	23'-8"
	18	SJ	28'-0"	
	16	SJ	30'-0"	
	14	SJ	32'-0"	
7 1/4"	25	ST	32'-0"	
	22	ST	34'-0"	
	20	ST	37'-0"	
8"	25	ST	34'-6"	
	22	ST	37'-4"	
	20	ST	39'-6"	



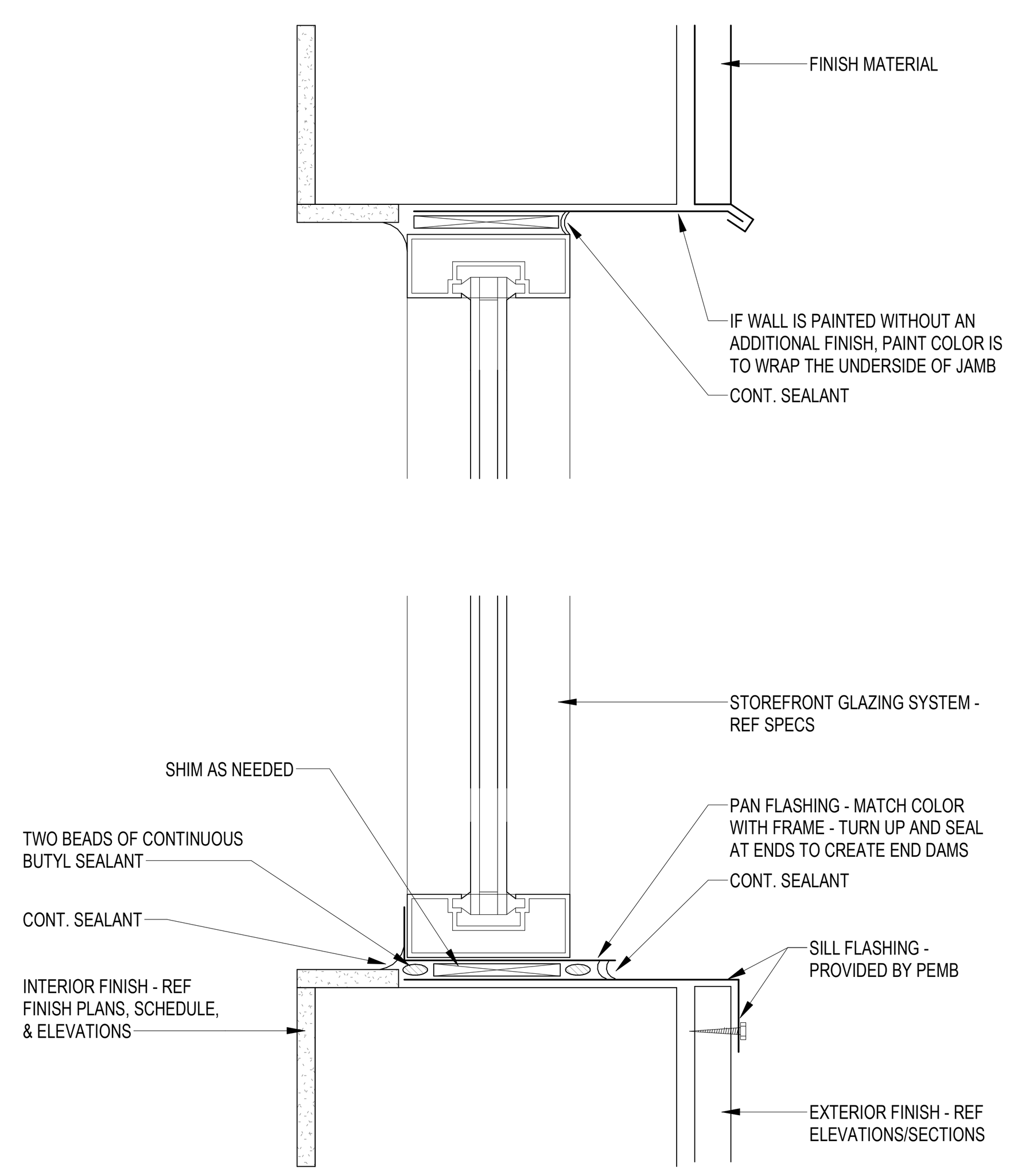
PR1 - ADDED ATTACHED WASHBAY.
PR2 - REMOVED ATTACHED WASHBAY.
PR3 - ADDED EXTERIOR CANOPY.

7 INSULATION DIAGRAM
1/16" = 1'-0"

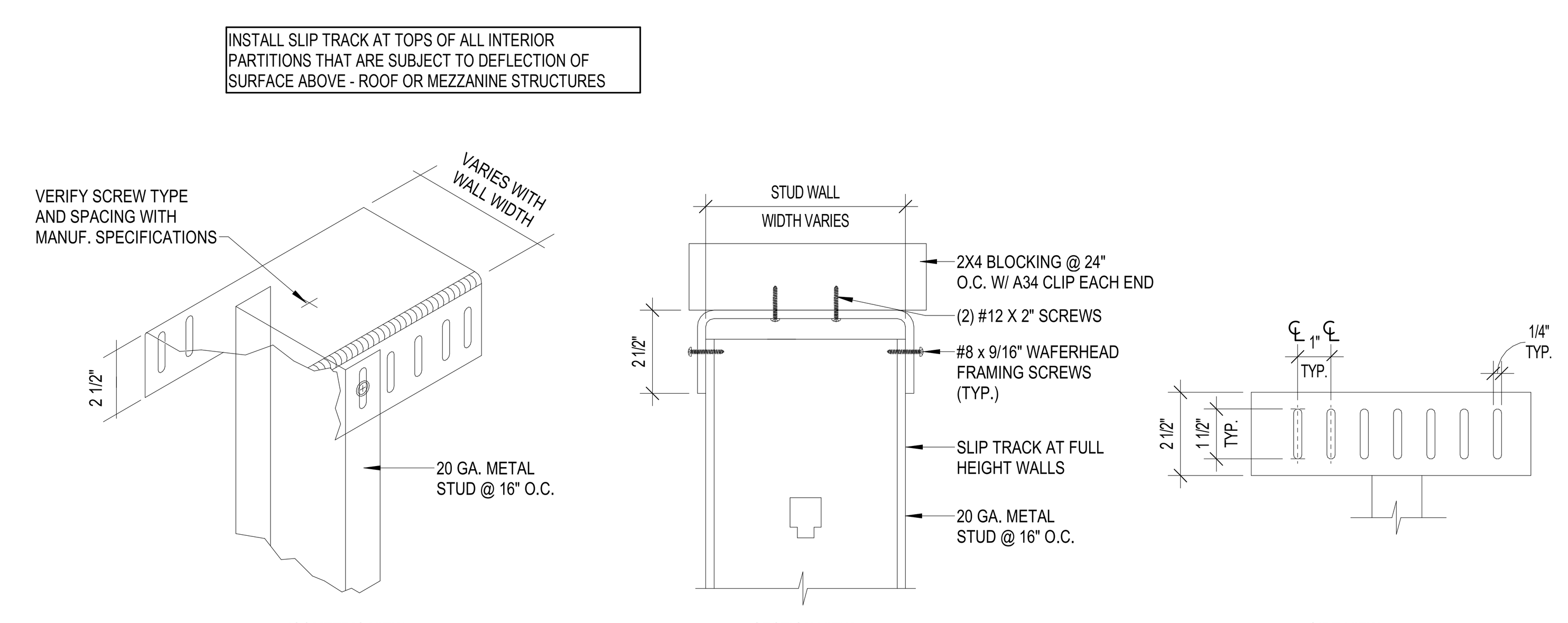
PR1 - ADDED DAYLIGHT DRAIN DETAILS
PR2 - REMOVED DAYLIGHT DRAIN DETAILS



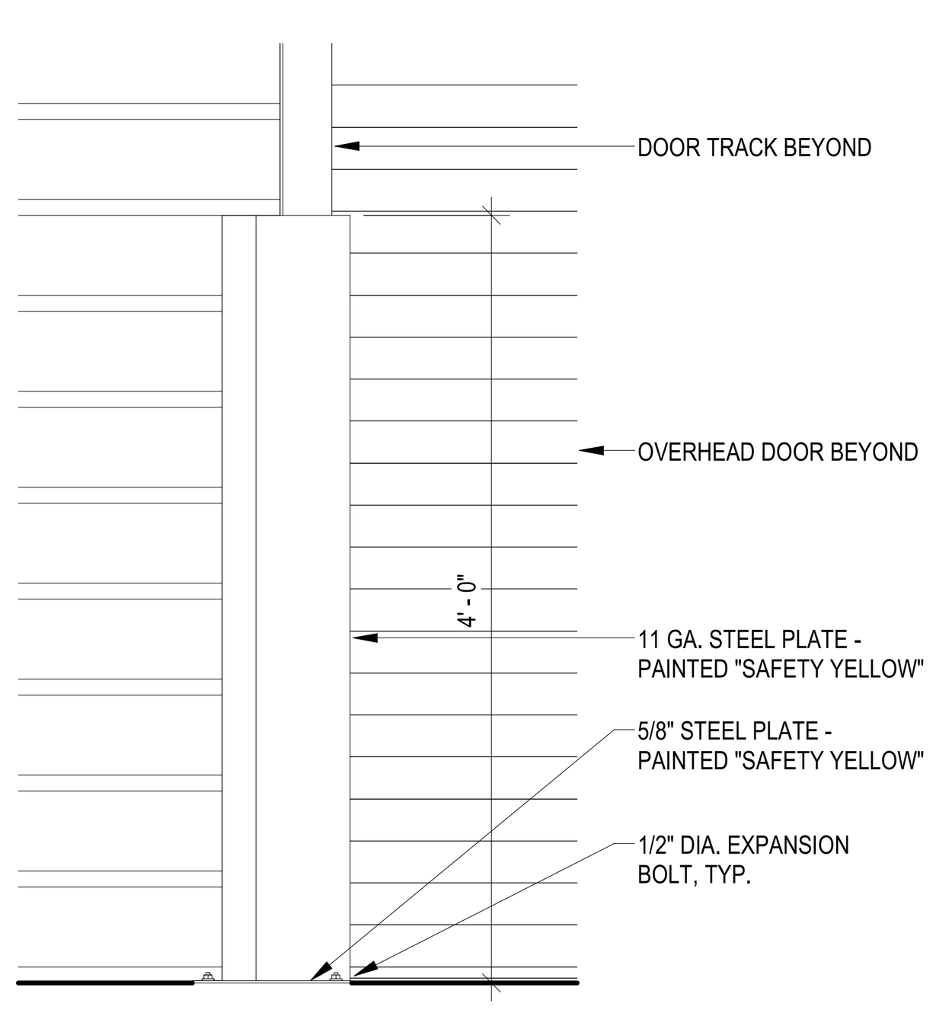
6 STOREFRONT JAMB DETAIL
3" = 1'-0"



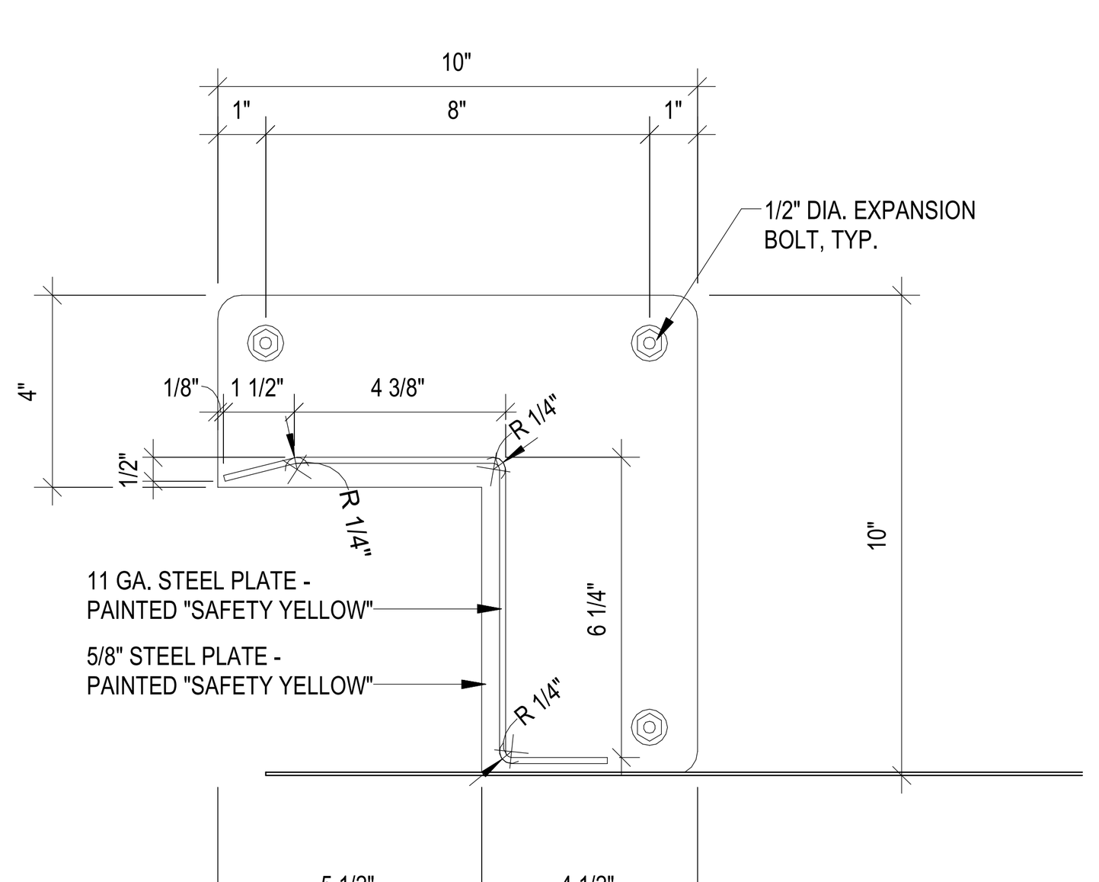
5 STOREFRONT SILL AND HEAD
3" = 1'-0"



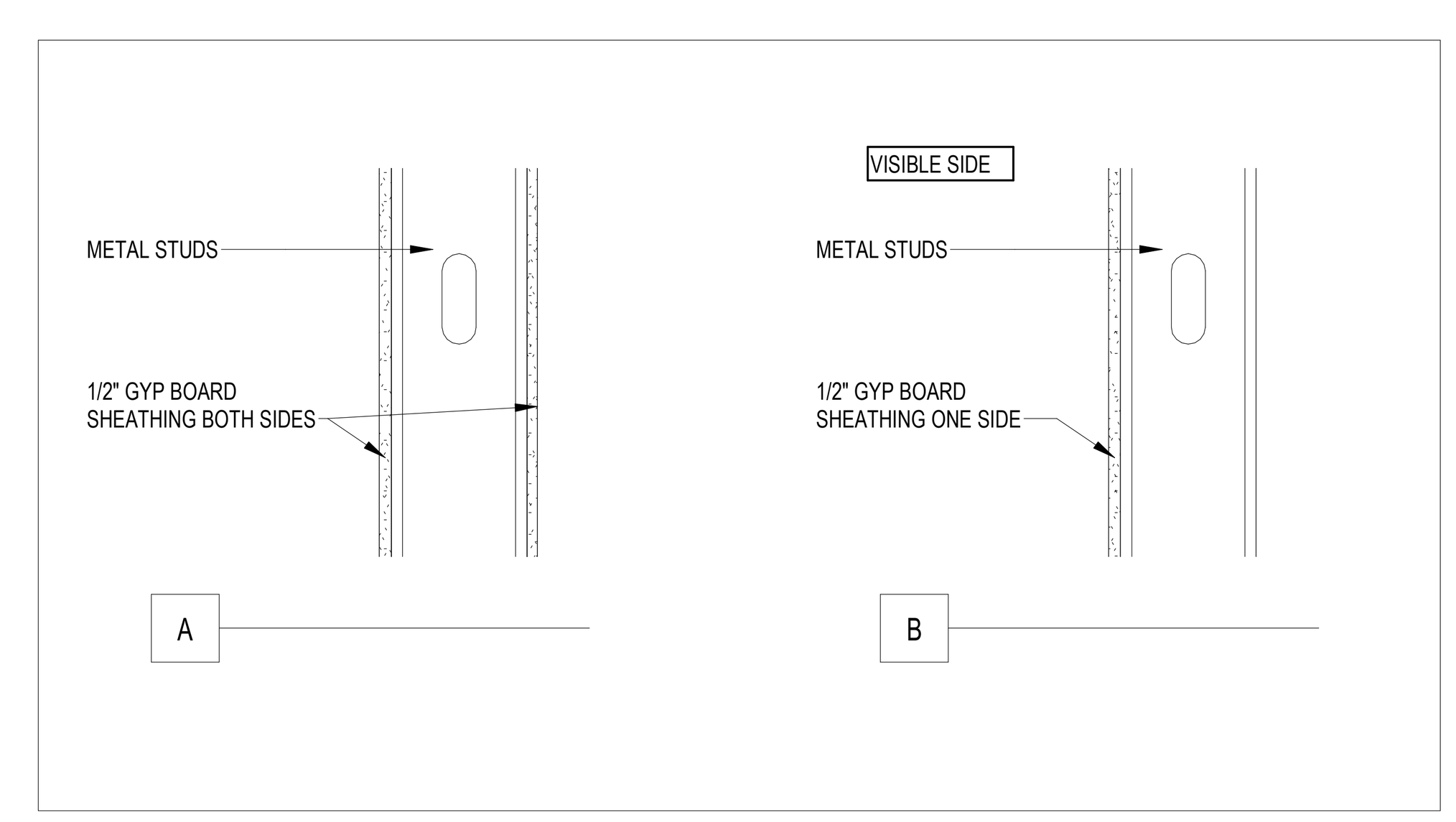
4 CAPTURE TRACK DETAILS
3" = 1'-0"



3 OHD TRACK PROTECTION ELEVATION
1" = 1'-0"



2 OHD TRACK PROTECTION DETAIL
3" = 1'-0"



1 PARTITION TYPES
1 1/2" = 1'-0"

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DETAILS

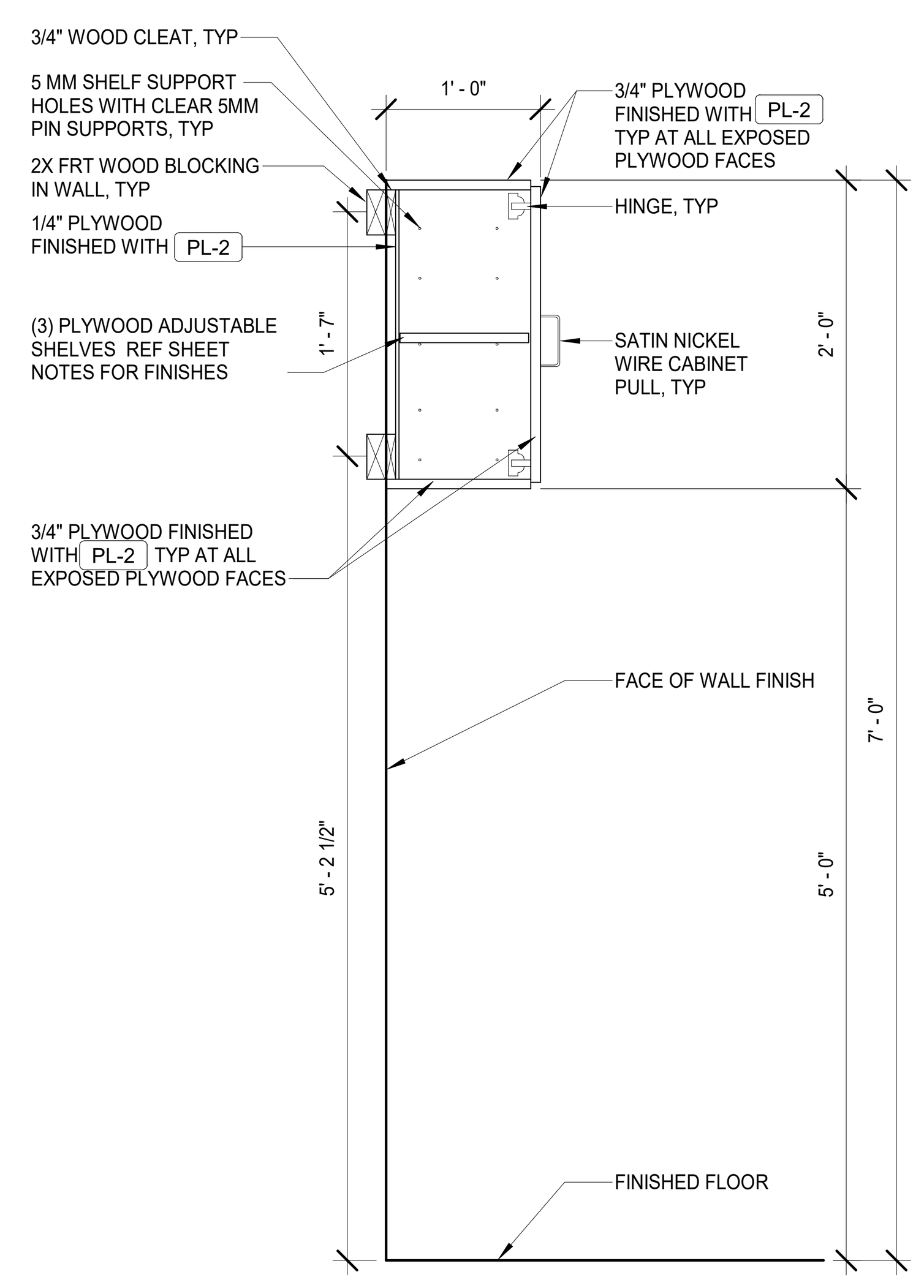
SHEET: A5.0

MILLWORK SHEET NOTES:

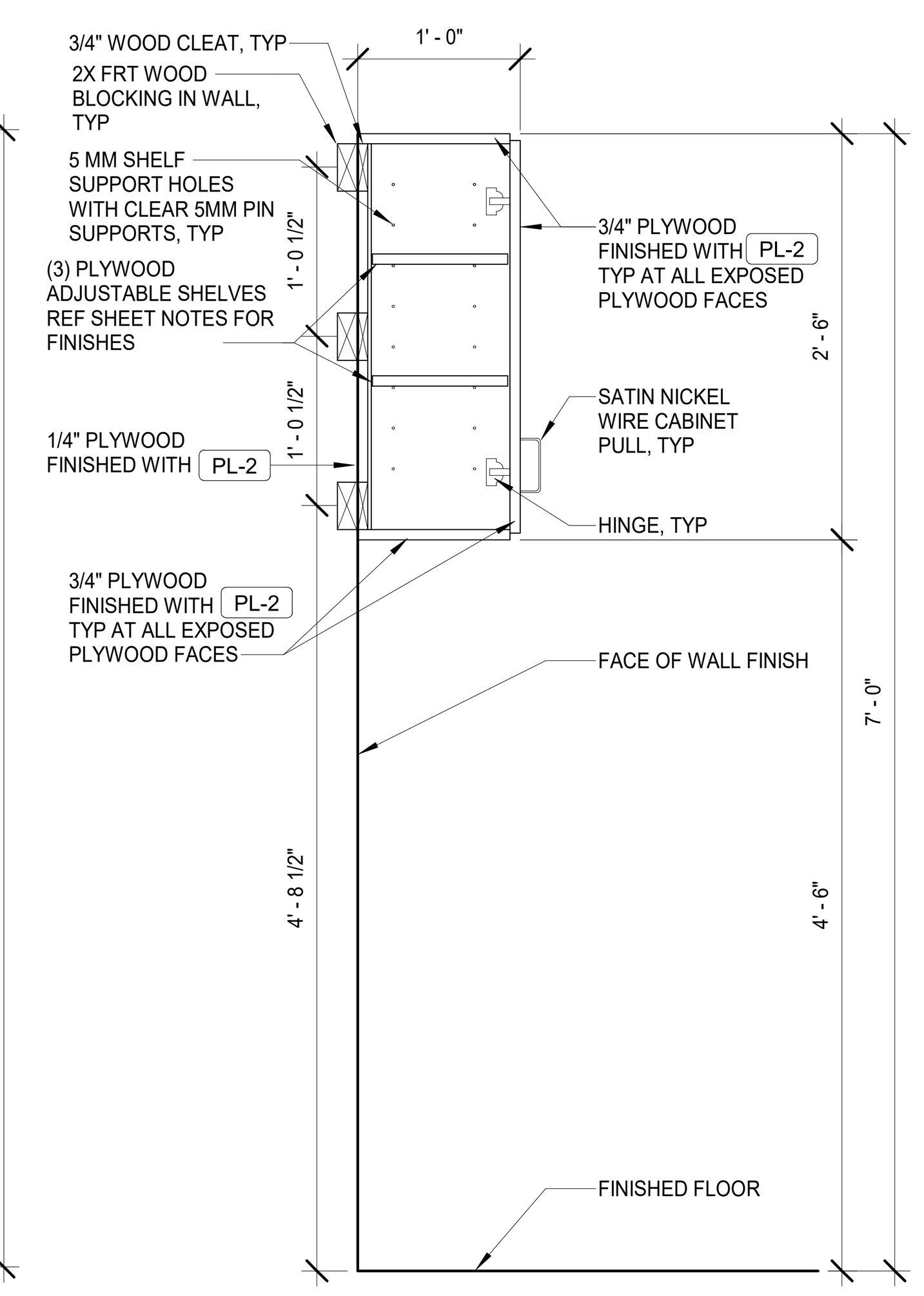
1. MILLWORK MANUFACTURER TO FIELD VERIFY ALL DIMENSIONS PRIOR TO SUBMITTING SHOP DRAWINGS FOR REVIEW.
2. ALL MILLWORK SHOP DRAWINGS TO BE SUBMITTED TO EQUIPMENTSHARE REPRESENTATIVE FOR REVIEW AND APPROVAL.
3. ALL CABINET SUBSTRATE TO BE 3/4" A/C PLYWOOD UNLESS NOTED OTHERWISE.
4. ALL PLYWOOD SUBSTRATE TO BE COVERED WITH LAMINATE AT INDICATED IN MILLWORK DETAILS. INSTALL LAMINATE PER MANUFACTURERS RECOMMENDATIONS.
5. ALL DRAWERS TO BE CONSTRUCTED OF MELAMINE OR SOLID WOOD FULL HEIGHT. WOOD TO BE BIRCH, OR APPROVED EQUAL. FACE OF DRAWERS TO BE LAMINATED PER DRAWINGS.
6. ALL DRAWERS TO HAVE FULL EXTENSION DRAWER GLIDES, 75# MINMUM.
7. ALL DRAWER TO BE A MINIMUM OF 20" DEEP.
8. ALL SHELVES TO BE CONSTRUCTED OF 3/4" A/C PLYWOOD ON ALL SURFACES.
9. ALL ADJUSTABLE CABINET SHELVES TO BE MOUNTED 5MM BORING SYSTEM (NO METAL STANDARDS ALLOWED) .
10. PROVIDE 2" GROMMET AND COVER AT ALL LOCATIONS INDICATED ON DRAWINGS. COLOR TO MATCH WITH PL SURFACE SURRONDING.
11. METAL SUPPORT BRACKETS AT COUNTERTOPS TO BE WOODWORKEREXPRESS.COM SKU# 10730729, WHITE OR APPROVED EQUAL.
12. WHERE DOORS OR DRAWERS SIT ADJACENT TO A SIDE WALL, PROVIDE 2" FILLER TO MATCH CABINET FINISHES BETWEEN DOORS OR DRAWERS AND SIDE WALL.

INTERIOR FINISH SCHEDULE:

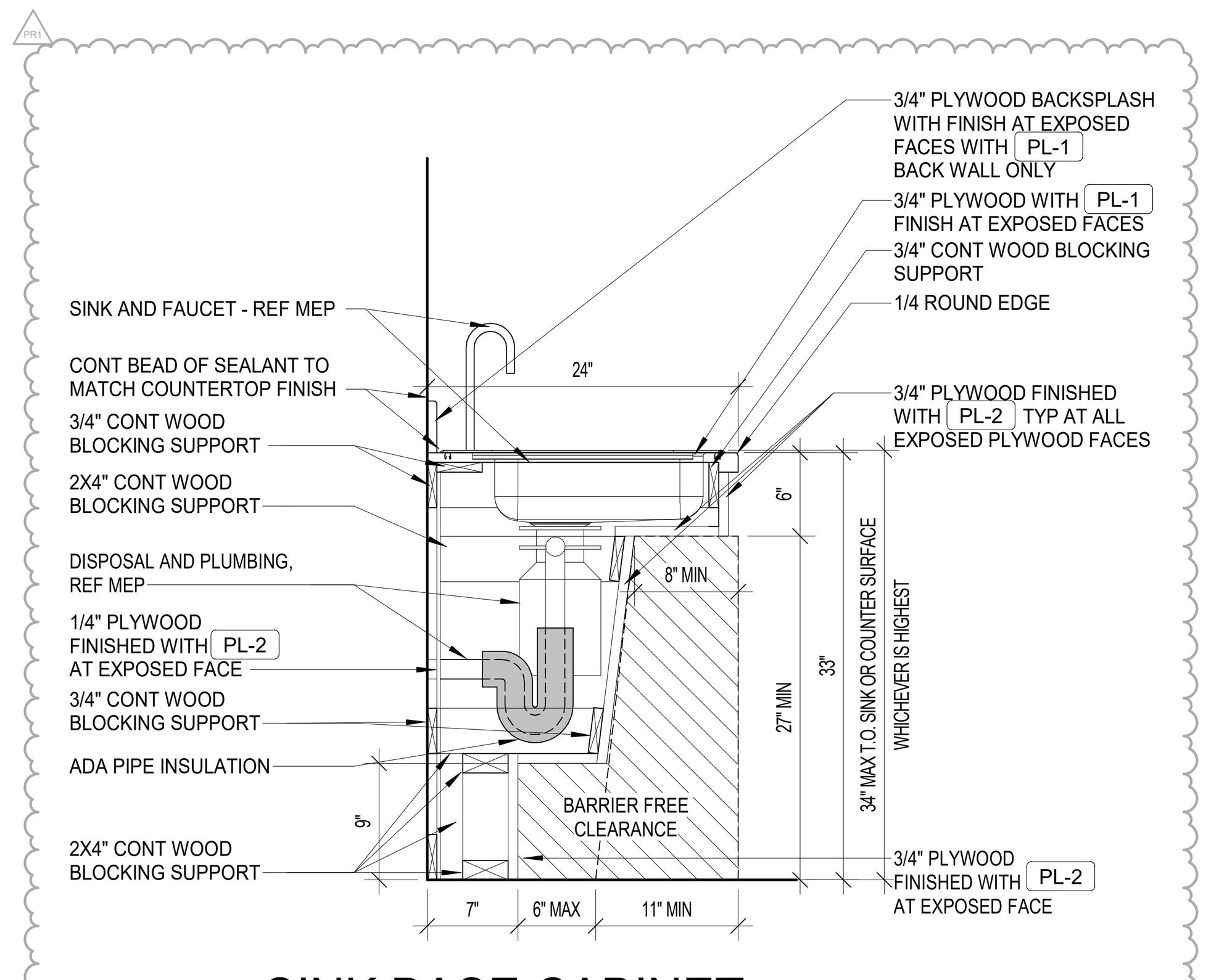
BASE:	
RB - 1	**VINYL BASE - ALL WALLS NOT INDICATED WITH PT-0** ROPPE (OR EQUAL) 4" COVE FOOT COLOR : 100 BLACK
WALLS (LEVEL 4 FINISH ON ALL PAINTED GYP BOARD SURFACES):	
IPT - O	**NO PAINT AND NO WALL BASE - TAPE AND FLOAT ONLY- LOCATIONS SHOWN IN PLAN**
IPT - 1	**PAINT - WALL FIELD COLOR - ALL GYP SURFACES NOT INDICATED WITH PT-2 OR PT-0** BENJAMIN MOORE COLOR: OC-52 GRAY OWL, EGGSHELL
IPT - 2	**PAINT - INTERIOR WALL ACCENT COLOR, INTERIOR HM DOORS, AND EXPOSED MAIN FRAMES** BENJAMIN MOORE COLOR: 1474 CAPE MAY COBBLESTONE, SEMIGLOSS **ACCENT WALLS INDICATED IN PLAN VIA:**
IPT - 3	**PAINT - INTERIOR HM DOOR FRAMES AND SHOW ROOM EXPOSED PURLINS** BENJAMIN MOORE COLOR: 2135-10 BLACKTOP, SEMIGLOSS
KG - 1	**KEMLITE GLASBORD FIBERGLASS REINFORCED PLASTIC (FRP)** COLOR: WHITE TEXTURE: SMOOTH HEIGHT:4' - 0" AFF
MILLWORK/CABINETS:	
PL - 1	**PLASTIC LAMINATE - COUNTER TOPS** FORMICA COLOR CORE COLOR: FOLKSTONE MATTE 927C-58
PL - 2	**PLASTIC LAMINATE - BASE CABINETS** FORMICA COLOR: STORM TEAKWOOD 890
TILE:	
TL - 1	**WALL TILE - COFFEE BAR BACK SPLASH** DALTILE KEYSTONES 2X4 MOSAIC COLOR: DESERT GRAY SPECKLE D200 GROUT: MAPEI ULTRACOLOR PLUS - SILVER GREY
CEILINGS:	
ACT - 1	**ACOUSTICAL CEILING TILE - REFERENCE RCP FOR LOCATIONS AND HEIGHTS** SQUARE LAY-IN ACOUSTICAL CEILING TILE, 15/16 2'-0" x 2'-0" COLOR: WHITE TILES WITH WHITE GRID REF SPECIFICATIONS
FLOOR FINISHES:	
CN - 1	**SEALED CONCRETE - SHOP AND WASH BAY FLOORS** 1. VACUUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 2. APPLY AMERIPOLISH 3D HS DENSIFIER, TO REJECTION. A. MINIMUM DWELL TIME OF 60 MINUTES, REAPPLY AS DENSIFIER IS ABSORBED. 3. VACUUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 4. APPLY TWO LIGHT COATS OF AMERIPOLISH SR2 PLUS STAIN RESISTOR. A. USE CLEAN MICROFIBER APPLICATOR. B. APPLY FIRST COAT AND ALLOW TO DRY TO-THE-TOUCH (APPROX. 7-12 MINUTES). C. APPLY SECOOND COAT AND ALLOW TO DRY TO-THE-TOUCH (APPROX. 7-12 MINUTES).
CN - 2	**POLISHED CONCRETE - OFFICE SPACES AND SHOWROOM FLOORS** 1. ASSESS CONDITION OF SLAB AND BEGIN THE GRINDING PROCESS WITH THE LIGHTEST GRIND POSSIBLE, USING NON-RESIN DIAMONDS, TO OPEN THE FLOOR TO ACCEPT DENSIFIER. 2. VACCUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 3. APPLY AMERIPOLISH 3D HS DENSIFIER, TO REJECTION. A. MINIMUM DWELL TIME OF 60 MINUTES, REAPPLY AS DENSIFIER IS ABSORBED. 4. WET GRIND WITH 100 GRIT RESIN-BONDED DIAMONDS. 5. VACUUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 6. CONTINUE THE POLISHING PROCESS WITH THE FOLLOWING GRITS, USING RESIN-BONDED DIAMONDS: A. 200, 400, 800, 1500 B. AFTER EACH STAGE, VACUUM FLOOR THOROUGHLY, THEN CLEAN WITH AUTO-SCRUBBER AND WATER. 7. APPLY TWO LIGHT COATS OF AMERIPOLISSH SR2 PLUS STAIN RESISTOR. A. USE A CLEAN MICROFIBER APPLICATOR. B. APPLY FIRST COAT AND ALLOW TO DRY TO-THE-TOUCH (APPROX. 7-12 MINUTES). C. APPLY SECOND COAT AND ALLOW TO DRY TO-THE-TOUCH (APPROX. 7-12 MINUTES). 8. BURNISH FLOOR WITH 3000 GRIT DIAMOND PAD. APPLY TO ALL FLOORS SHOWN WITH:
	ALL ELECTRICAL DEVICES (SWITCHES, OUTLETS, FACEPLATES, ETC.) TO BE GRAY.



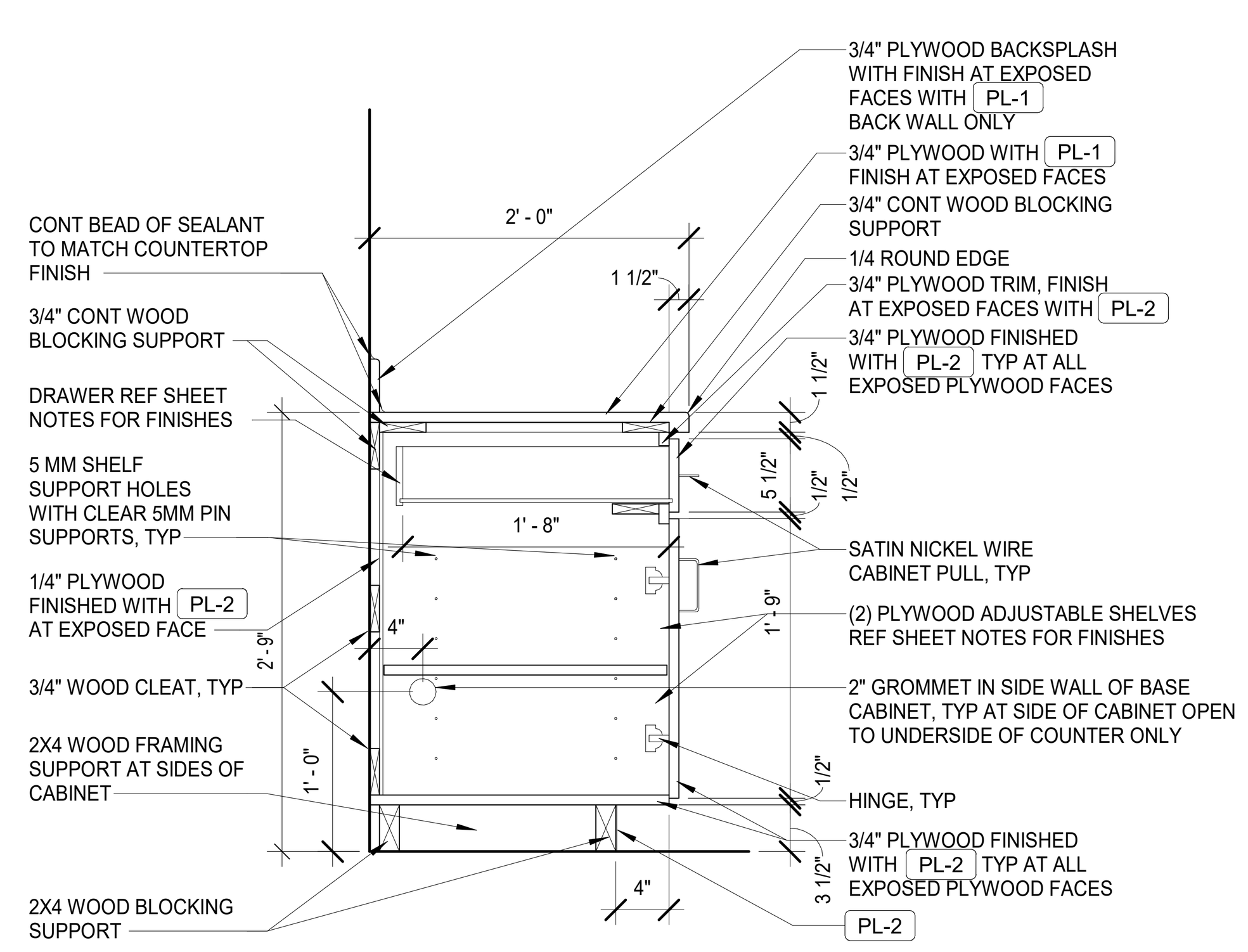
6 WALL SHELVING
1" = 1'-0"



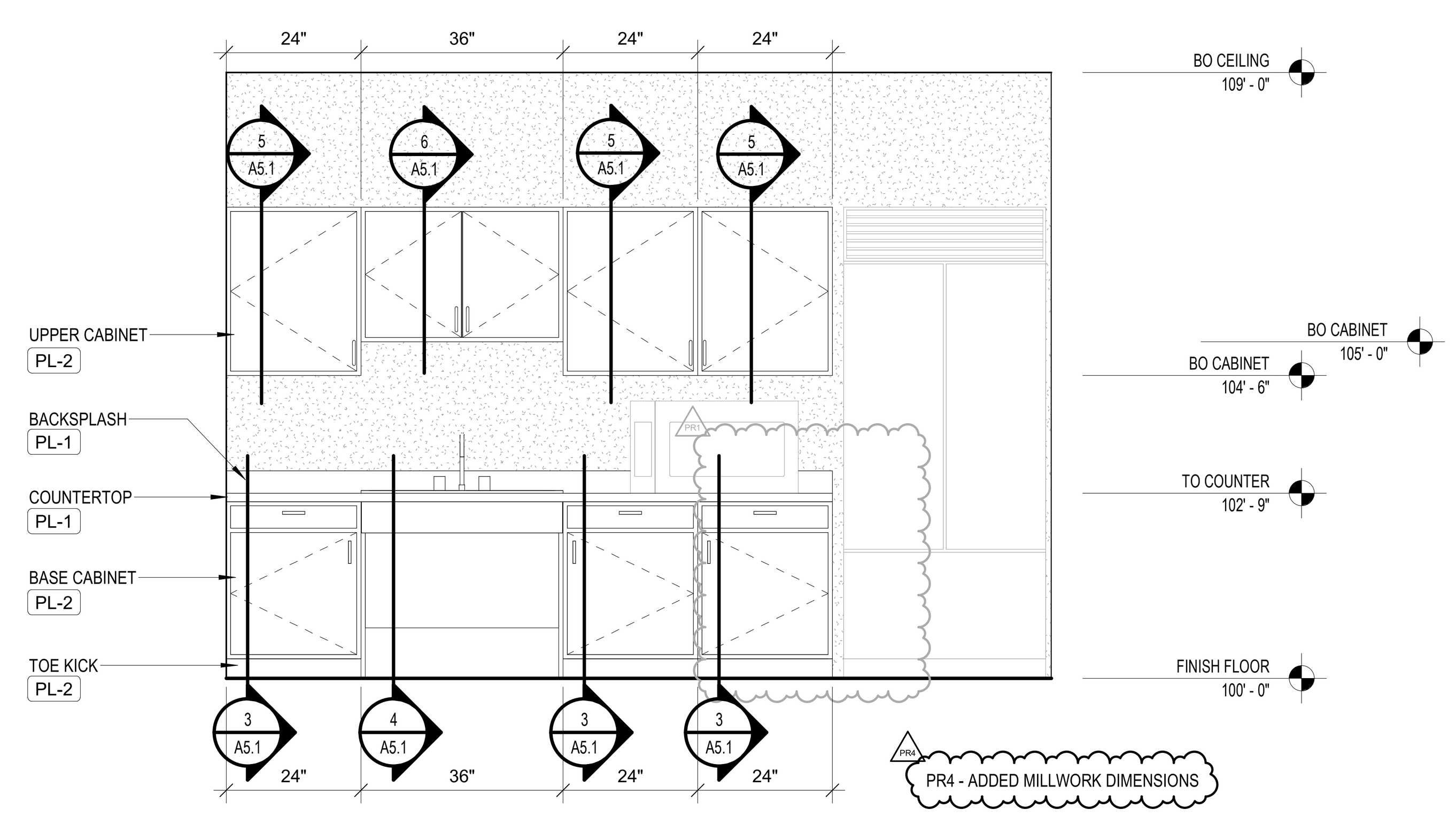
5 UPPER CABINET
1" = 1'-0"



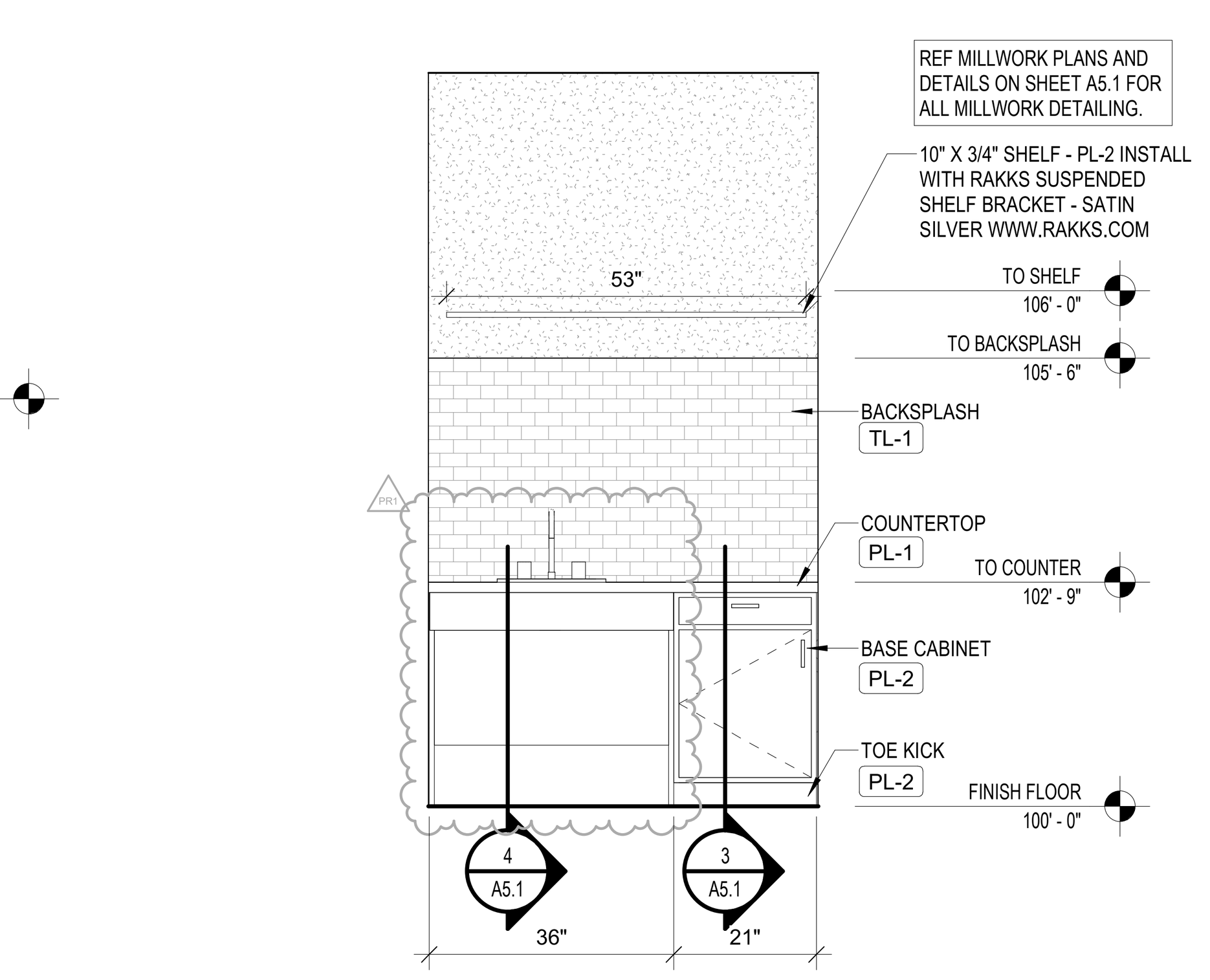
4 SINK BASE CABINET
1" = 1'-0"



3 DOOR AND DRAWER BASE CABINET
1" = 1'-0"



2 BREAKROOM MILLWORK ELEVATION
1/2" = 1'-0"



1 COFFEE BAR MILLWORK ELEVATION
1/2" = 1'-0"

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EQUIPMENTSHARE - LAKE CITY, FL

US-90 & PRICE CREEK ROAD
LAKE CITY, FLORIDA

JOB NUMBER: 2023.0377

ISSUE BLOCK

	OTP	08.11.2023
PR1	PR1	10.13.2023
PR2	PR2	11.10.2023
PR4	PR4	04.25.2024

CHECKED BY:	KG
DRAWN BY:	HLB / AAS
DOCUMENT DATE:	11.06.2023

DOCUMENTS WITHOUT AN ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

INTERIOR DETAILS AND ELEVATIONS

SHEET: A5.1

DOOR SCHEDULE NOTES:

1 COILING DOORS TO BE STANDARD GRAY BY MANUFACTURER AS SHOWN ON THE EXTERIOR ELEVATIONS - CONFIRM FINAL COLOR SELECTION WITH OWNER PRIOR TO FINALIZING ORDER

2 ENSURE ALL DOORS MEET THE WIND SPEED CRITERIA LISTED

3 ADD SIGN: "GATE TO REMAIN UNLOCKED WHILE SPACE IS OCCUPIED"

4 GATES TO BE PROVIDED BY CHAIN LINK FENCE SUPPLIER - PROVIDE PADLOCK IN COORDINATION WITH OWNER

PROVIDE ADA RESTROOM SIGNAGE AT ALL RESTROOM DOORS.
REF 3 - A1.1

HARDWARE SCHEDULE:

(EACH LEAF AS APPLICABLE)

HARDWARE SET 1 - STOREFRONT ENTRY DOORS

HARDWARE TO BE PROVIDED BY STOREFRONT DOOR PROVIDER (REF SPECS) EXCEPT AS LISTED BELOW:

Qty	UM	Type	Description		
2	EA	CYLINDER CORE	1CC7A2GREEN		BES
2	EA	CYLINDER CORE	FINAL CORE BY DH PACE		
2	EA	CUT KEY	FINAL KEY BY DH PACE		

HARDWARE SET 2 - CYLINDRICAL LOCKSET WITH CLOSER - NON-ENVELOPE

3	EA	HINGE, 4 1/2, STD WT	FBB179 4-1/2 X 4-1/2 X NRP	26D	BHI
1	EA	CYLINDRICAL LOCK WITH THRU BOLTS	9K3-7-UA-15-D-S3 X L/C	626	BES
1	EA	CYLINDER CORE	1CC7A2GREEN		BES
1	EA	CYLINDER CORE	FINAL CORE BY DH PACE		
1	EA	CLOSER, PARALLEL ARM	EHD9016 x AF90P x PC90 x SNDTPK	689	BES
1	EA	CUT KEY	FINAL KEY BY DH PACE		
3	EA	SILENCER	608-RKW	GRAY	ROC

HARDWARE SET 2A - CYLINDRICAL LOCKSET WITH CLOSER - ENVELOPE

3	EA	HINGE, 4 1/2, STD WT	FBB179 4-1/2 X 4-1/2 X NRP	26D	BHI
1	EA	CYLINDRICAL LOCK WITH THRU BOLTS	9K3-7-UA-15-D-S3 X L/C	626	BES
1	EA	CYLINDER CORE	1CC7A2GREEN		BES
1	EA	CYLINDER CORE	FINAL CORE BY DH PACE		
1	EA	CLOSER, PARALLEL ARM	EHD9016 x AF90P x PC90 x SNDTPK	689	BES
1	EA	SEAL	160V X 36 X 84	MILL	NAT
1	EA	DOOR SWEEP	101VA X 36	MILL	NAT
1	EA	THRESHOLD	896V X 36	MILL	NAT
1	EA	DRIP CAP	16A X 40	A	NAT
1	EA	CUT KEY	FINAL KEY BY DH PACE		

HARDWARE SET 3 - BAR LOCKSET - ENVELOPE

3	EA	HINGE, 4 1/2, STD WT	FBB179 4-1/2 X 4-1/2 X NRP	26D	BHI
1	EA	RIM EXIT DEVICE KEY CONTROLS LEVER	4R05108 X 808A X S300 X 3-0	689	BPH
1	EA	MORTISE CYLINDER	1E-7-4-C4-RP3 X L/C	626	BES
1	EA	CYLINDER CORE	1CC7A2GREEN		BES
1	EA	CYLINDER CORE	FINAL CORE BY DH PACE		
1	EA	CLOSER, PARALLEL ARM	EHD9016 x AF90P x PC90 x SNDTPK	689	BES
1	EA	SEAL	160V X 36 X 84	MILL	NAT
1	EA	DOOR SWEEP	101VA X 36	MILL	NAT
1	EA	THRESHOLD	896V X 36	MILL	NAT
1	EA	DRIP CAP	16A X 40	A	NAT
1	EA	CUT KEY	FINAL KEY BY DH PACE		

HARDWARE SET 4 - PASSAGE - NON-ENVELOPE

3	EA	HINGE, 4 1/2, STD WT	FBB179 4-1/2 X 4-1/2	26D	BHI
1	EA	PASSAGE SET, WITH THRU BOLTS	9K3-0-N-15-D-S3	626	BES
1	EA	CLOSER, PARALLEL ARM	EHD9016 x AF90P x PC90 x SNDTPK	689	BES
1	EA	WALL STOP	409	US32D	ROC
3	EA	SILENCER	608-RW	GRAY	ROC

HARDWARE SET 4A - PASSAGE - ENVELOPE

3	EA	HINGE, 4 1/2, STD WT	FBB179 4-1/2 X 4-1/2	26D	BHI
1	EA	PASSAGE SET, WITH THRU BOLTS	9K3-0-N-15-D-S3	626	BES
1	EA	CLOSER, PARALLEL ARM	EHD9016 x AF90P x PC90 x SNDTPK	689	BES
1	EA	WALL STOP	409	US32D	ROC
1	EA	SEAL	160V X 36 X 84	MILL	NAT
1	EA	DOOR SWEEP	101VA X 36	MILL	NAT
1	EA	THRESHOLD	896V X 36	MILL	NAT

HARDWARE SET 5 - RESTROOM - NON ENVELOPE

3	EA	HINGE, 4 1/2, STD WT	FBB179 4-1/2 X 4-1/2		26D	BHI
1	EA	PRIVACY SET, WITH THRU BOLTS PRIVACY	9K3-0-L-15-D-S3		626	BES
1	EA	OVERHEAD STOP/HOLDER, SURFACE	4424		US32D	ABH
3	EA	SILENCER	608-RKW		GRAY	ROC

HARDWARE SET 6 - CYLINDRICAL LOCKSET NO CLOSER - NON-ENVELOPE

6	EA	HINGE, 4 1/2, STD WT	FBB179 4-1/2 X 4-1/2 X NRP		26D	BHI
1	EA	CYLINDRICAL LOCK WITH THRU BOLTS STOREROOM	9K3-7-D-15-D-S3 X L/C		626	BES
1	EA	CYLINDER CORE	1CC7A2GREEN			BES
1	EA	CYLINDER CORE	FINAL CORE BY DH PACE			
2	EA	FLUSH BOLT, MANUAL, EXTENSION	555	INACT	US26D	ROC
1	EA	DUST PROOF STRIKE	570		US26D	ROC
1	EA	CUT KEY	FINAL KEY BY DH PACE			
2	EA	SILENCER	608-RKW		GRAY	ROC

SOURCE STOREFRONT MATERIAL AND ALUMINUM ENTRANCES THROUGH VENDOR CONTACT LISTED BELOW:

NAME: MARK LEHMAN
EMAIL: MLEHMAN@OBE.COM
PHONE: (651) 253-5062

STOREFRONT MATERIAL: FG3000 MULTIPLANE CENTER SET
ALUMINUM ENTRANCES: MS-375 MEDIUM STYLE DOOR

SOURCE OVERHEAD DOORS, METAL DOORS, METAL FRAMES, AND DOOR HARDWARE THROUGH VENDOR CONTACT LISTED BELOW:

Nat. Accts. New Construction Team (NAC)
Phone: 888-722-3667 Ext. 2087
Email: EquipmentShareDoors@DHPace.com

SOURCE OVERHEAD DOORS, METAL DOORS, METAL FRAMES, DOOR HARDWARE, AND FINAL KEYS AND CORES THROUGH VENDOR CONTACT LIST BELOW

DOOR SCHEDULE

MARK	ROOM	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINSH	HDW. GROUP	MARK	NOTES
100A	LOBBY	7' - 0"	6' - 10"	1 3/4"	A	ALUMINUM	ANODIZED	-	ALUMINUM	ANODIZED	1	100A	2
100B	LOBBY	3' - 0"	7' - 0"	1 3/4"	D	HOLLOW METAL	PAINT	-	HOLLOW METAL	PAINT	4	100B	2
103A	OFFICE	3' - 0"	7' - 0"	1 3/4"	E	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	4	103A	
103B	CLOSET	2' - 0"	7' - 0"	1 3/4"	C	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	2	103B	
104A	IT CLOSET	2' - 6"	7' - 0"	1 3/4"	C	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	4	104A	
105A	MEN'S	3' - 0"	7' - 0"	1 3/4"	C	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	5	105A	
106A	LOBBY	3' - 0"	7' - 0"	1 3/4"	C	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	5	106A	
109A	LOBBY	3' - 0"	7' - 0"	1 3/4"	E	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	4	109A	
110A	BREAKROOM	3' - 0"	7' - 0"	1 3/4"	E	HOLLOW METAL	PAINT	1	ALUMINUM	PAINT	4	110A	
110B	BREAKROOM	3' - 0"	7' - 0"	1 3/4"	D	HOLLOW METAL	PAINT	1	ALUMINUM	PAINT	4A	110B	
111A	SHOP	6' - 0"	8' - 0"		-	CHAINLINK	-	-	-	-	-	111A	
111B	PARTS SECURED	10' - 0"	14' - 0"	5/8"	G	STEEL	PAINT	2	-	-	-	111B	1, 2
112A	PARTS OFFICE	3' - 0"	7' - 0"	1 3/4"	D	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	4A	112A	
112B	CLOSET	2' - 0"	7' - 0"	1 3/4"	C	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	2	112B	
113A	SHOP	14' - 0"	14' - 0"	5/8"	G	STEEL	PAINT	2	-	-	-	113A	1, 2
113B	SHOP	14' - 0"	14' - 0"	5/8"	G	STEEL	PAINT	2	-	-	-	113B	1, 2
113C	SHOP	3' - 0"	7' - 0"	1 3/4"	B	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	2A	113C	2
113D	SHOP	14' - 0"	14' - 0"	5/8"	G	STEEL	PAINT	2	-	-	-	113D	1, 2
113E	SHOP	14' - 0"	14' - 0"	5/8"	G	STEEL	PAINT	2	-	-	-	113E	1, 2
113F	SHOP	3' - 0"	7' - 0"	1 3/4"	B	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	2A	113F	2
113G	SHOP	14' - 0"	14' - 0"	5/8"	G	STEEL	PAINT	2	-	-	-	113G	1, 2
115A	MECH/ELEC ROOM	3' - 0"	7' - 0"	1 3/4"	B	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	2A	115A	
120A	DRIVE-IN BAY	3' - 0"	7' - 0"	1 3/4"	D	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT		120A	2
120B	WASH BAY	3' - 0"	7' - 0"	1 3/4"	D	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT		120B	2
120C	BREAKROOM	2' - 0"	7' - 0"	1 3/4"	C	HOLLOW METAL	PAINT	1	HOLLOW METAL	PAINT	4	120C	
121A	EQUIPMENT ROOM	8' - 0"	12' - 0"	5/8"	G	STEEL	PAINT	2	-	-	-	121A	1, 2

WIND SPEED DESIGN CRITERIA:

- GC AND GLAZING SUPPLIER TO COORDINATE AND ENSURE ALL DOORS, STOREFRONT SYSTEMS, GLAZING, ETC. MEETS OR EXCEEDS REQUIREMENTS SET FORTH BY LOCAL JURISDICTION INCLUDING DESIGN WIND SPEEDS, EXPOSURE CLASSIFICATION, IMPACT RESISTANCE, SAFETY GLAZING REQUIREMENTS, ETC.

  END ZONE: REF PEMB STRUCTURAL DESIGN CRITERIA
  INTERIOR ZONE: REF PEMB STRUCTURAL DESIGN CRITERIA
  WIND SPEED: 110 MPH
  EXPOSURE: C
  RISK CATEGORY: II

  GC TO PROVIDE SUBMITTALS AND CALCULATIONS TO THE AOR FOR REVIEW PRIOR TO PLACING ORDER OR PURCHASE OF ANY MATERIALS REQUIRED TO MEET HIGH WIND CRITERIA.

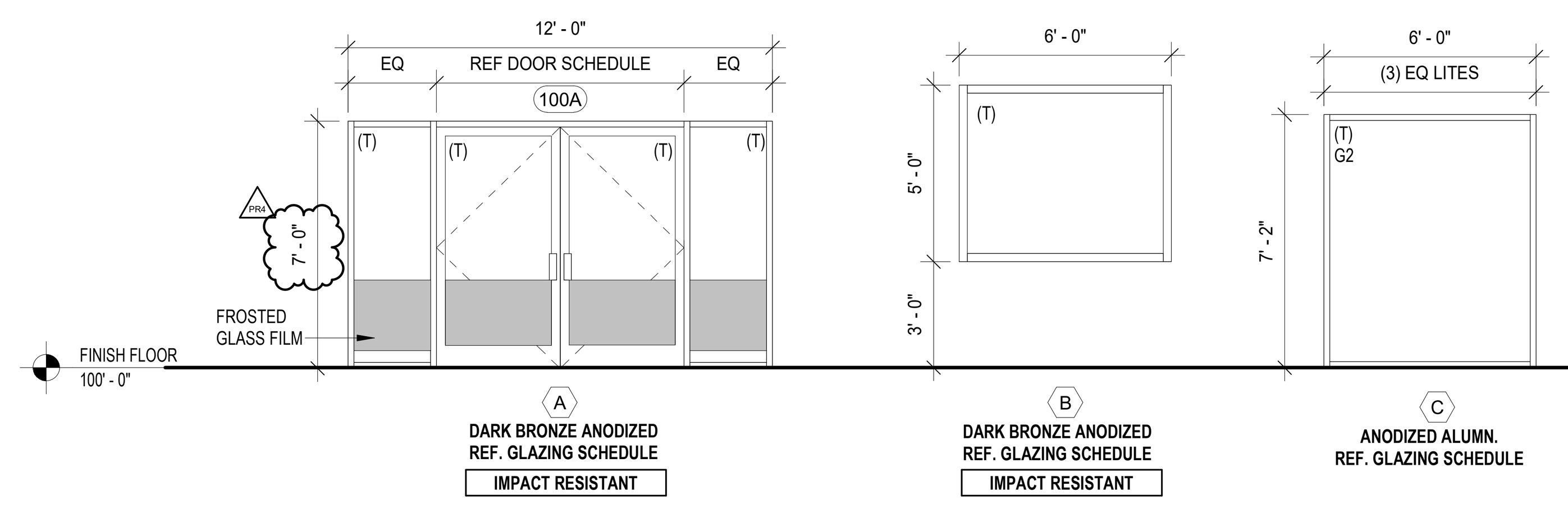
- WHEN INDICATED TO BE IMPACT RATED, EXTERIOR PANE OF INSULATED GLAZING TO MEET IMPACT REQUIREMENTS

GLAZING NOTES:

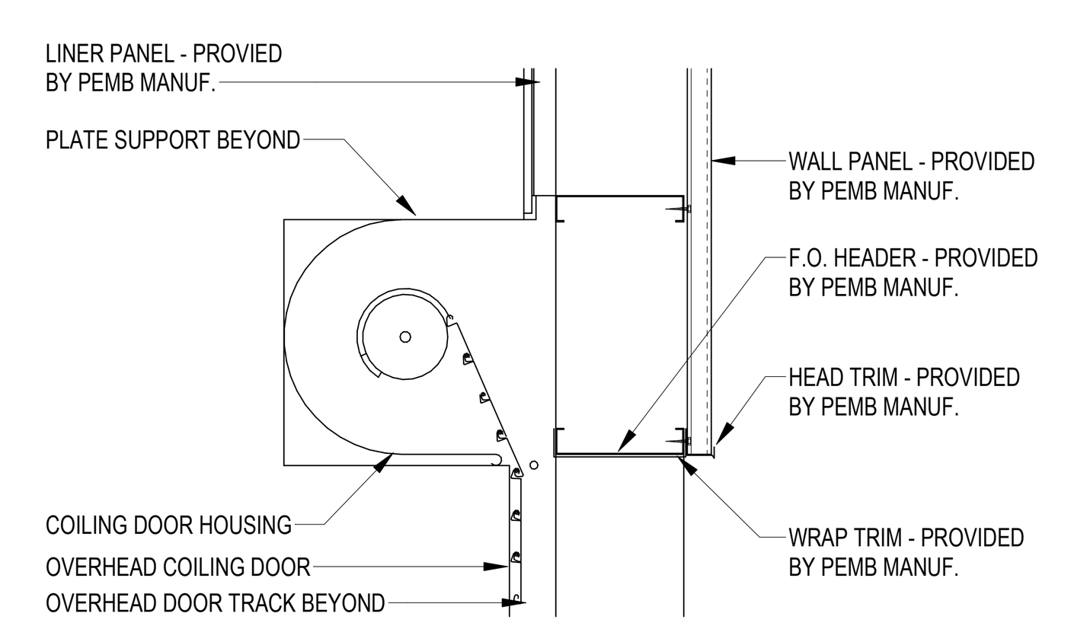
- ALL STOREFRONT DIMENSIONS SHOWN ARE ROUGH OPENING SIZES. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.
- PANES MARKED WITH "T" IN THESE DRAWINGS INDICATE THE NEED FOR TEMPERED SAFETY GLAZING - TYPICAL
- INSTALL STOREFRONT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS AND DESIGN TO ACCOMMODATE WIND SPEED DESIGN CRITERIA.

GLAZING TYPES: (ALL GLASS IS TYPE G1 UNLESS NOTED OTHERWISE)

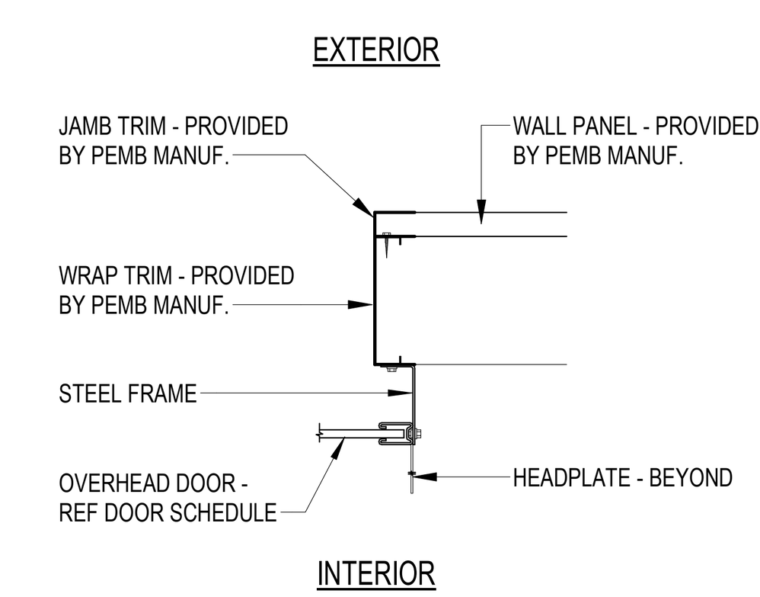
G1	1" LOW-E, INSULATED SOLARBAN 60 (2) SOLARGRAY + CLEAR OR EQUIVALENT (DOOR AND WINDOW GLAZING PANELS) SHGC: 0.25 U-FACTOR: 0.29 WINDOW TYPES INDICATED AS IMPACT RATED REQUIRE IMPACT RESISTANT GLAZING TO MEET THE WIND SPEED DESIGN CRITERIA NOTED IN THE GLAZING NOTES.
G2	1/4" CLEAR FLOAT GLASS (INTERIOR ONLY)
(T)	PANES MARKED WITH (T) SHALL BE TEMPERED GLASS



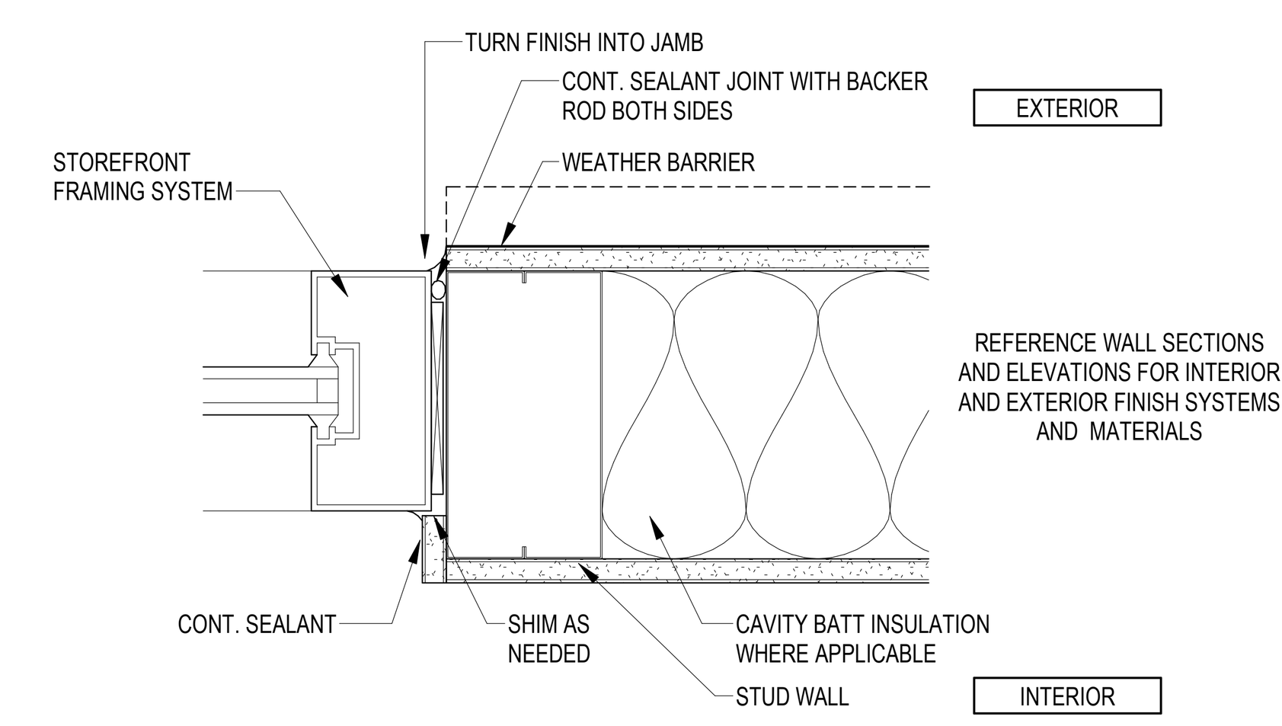
12 WINDOW TYPES
1/4" = 1'-0"



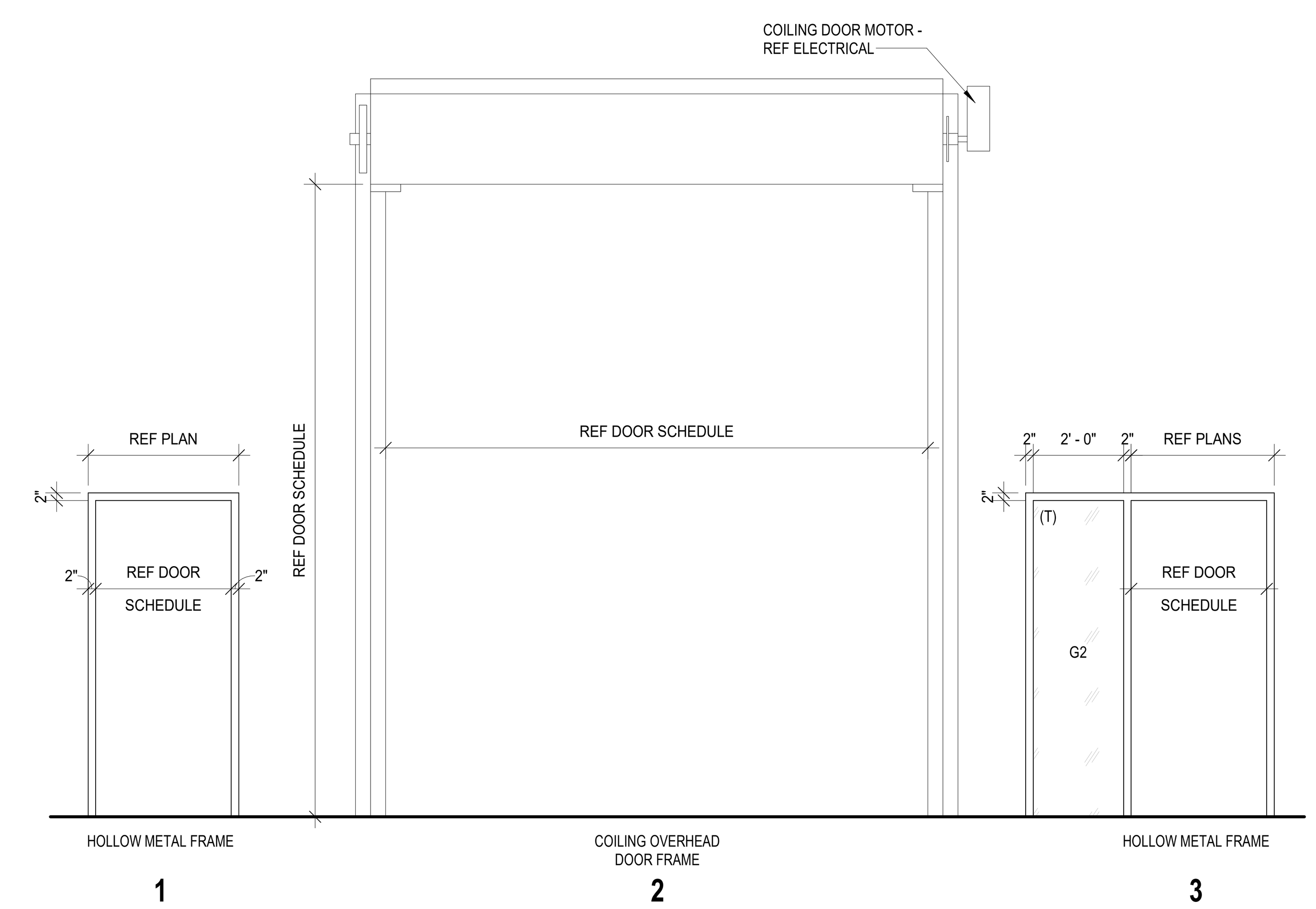
11 COILING DOOR
1" = 1'-0"



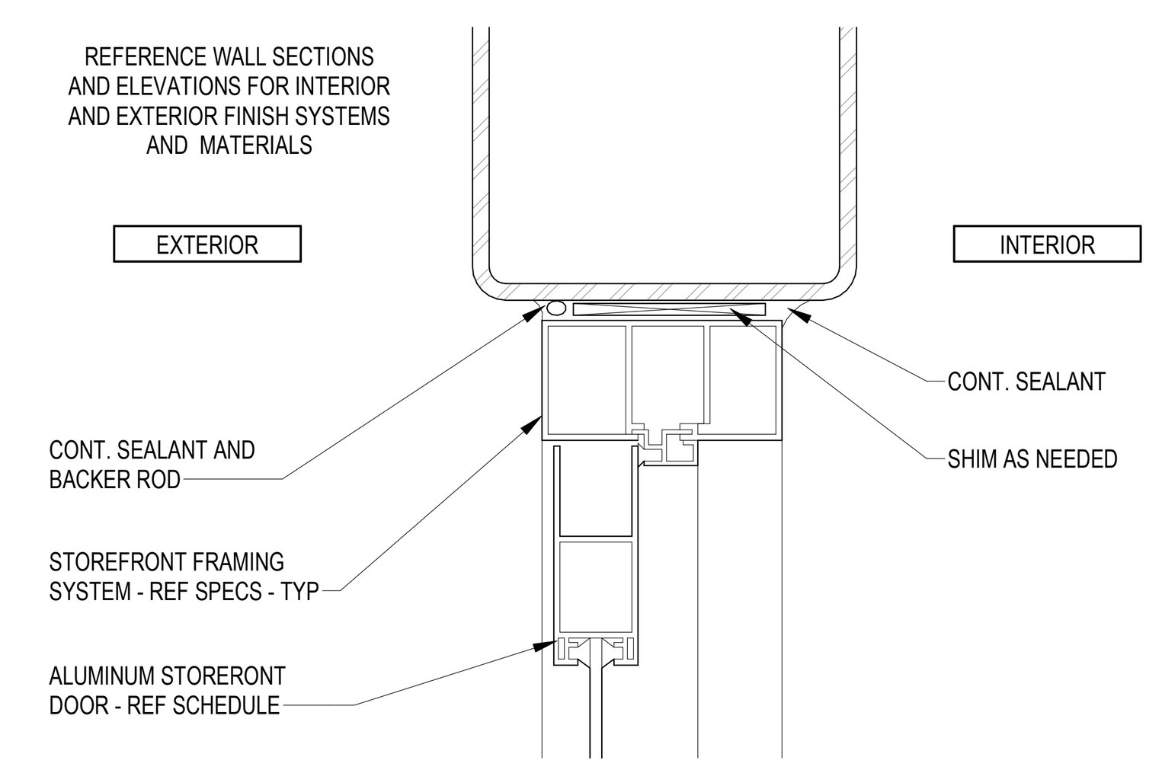
10 COILING DOOR JAMB
1" = 1'-0"



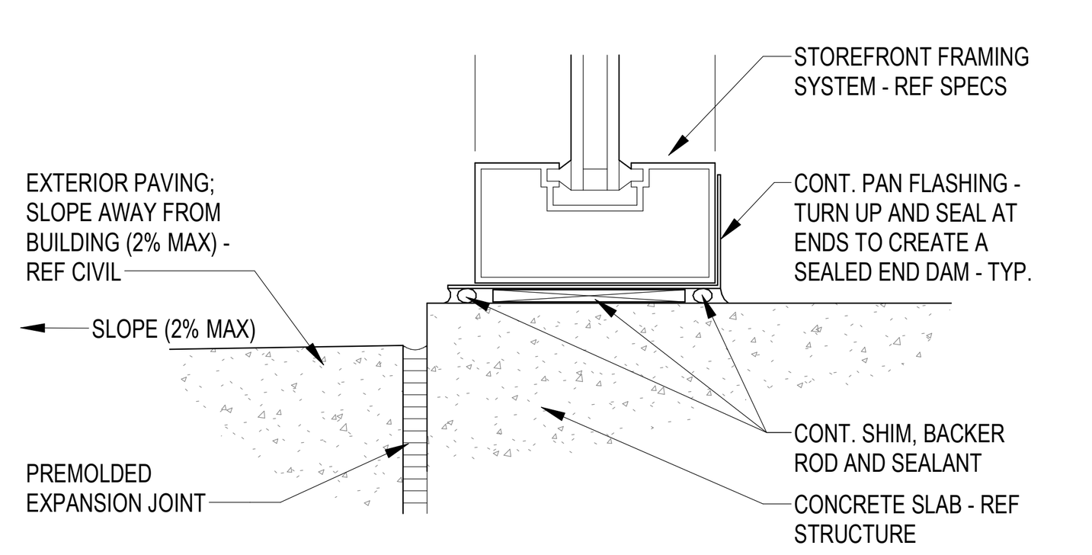
9 JAMB DETAIL - ALUM. / FRAMED
3" = 1'-0"



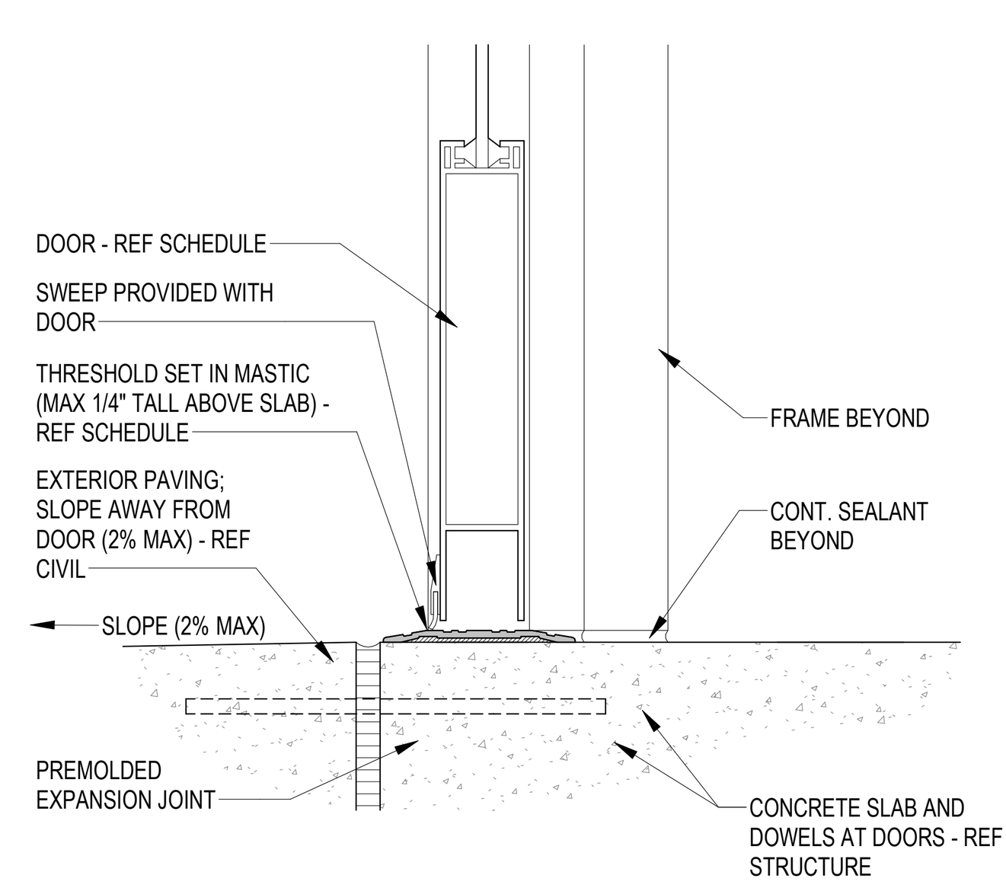
2 DOOR FRAME ELEVATION
3/8" = 1'-0"



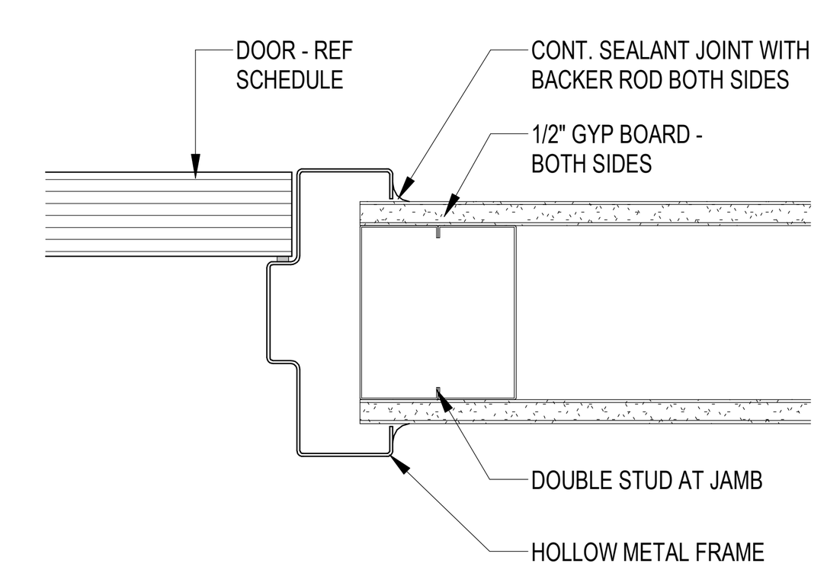
8 HEAD DETAIL - ALUM. / FRAMED
3" = 1'-0"



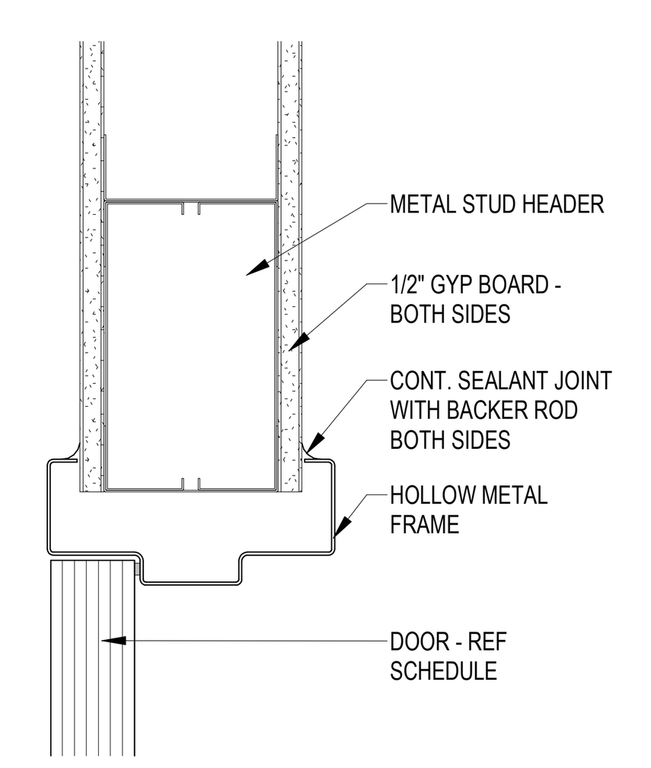
7 SILL DETAIL - ALUM.
3" = 1'-0"



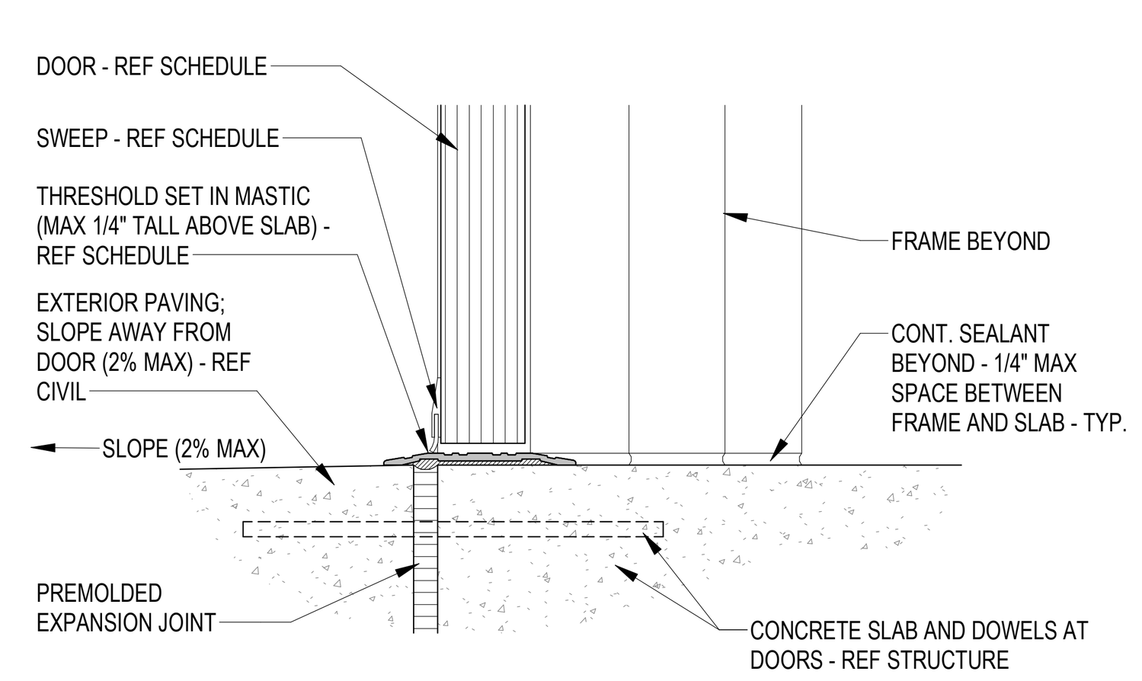
6 THRESHOLD DETAIL - ALUM.
3" = 1'-0"



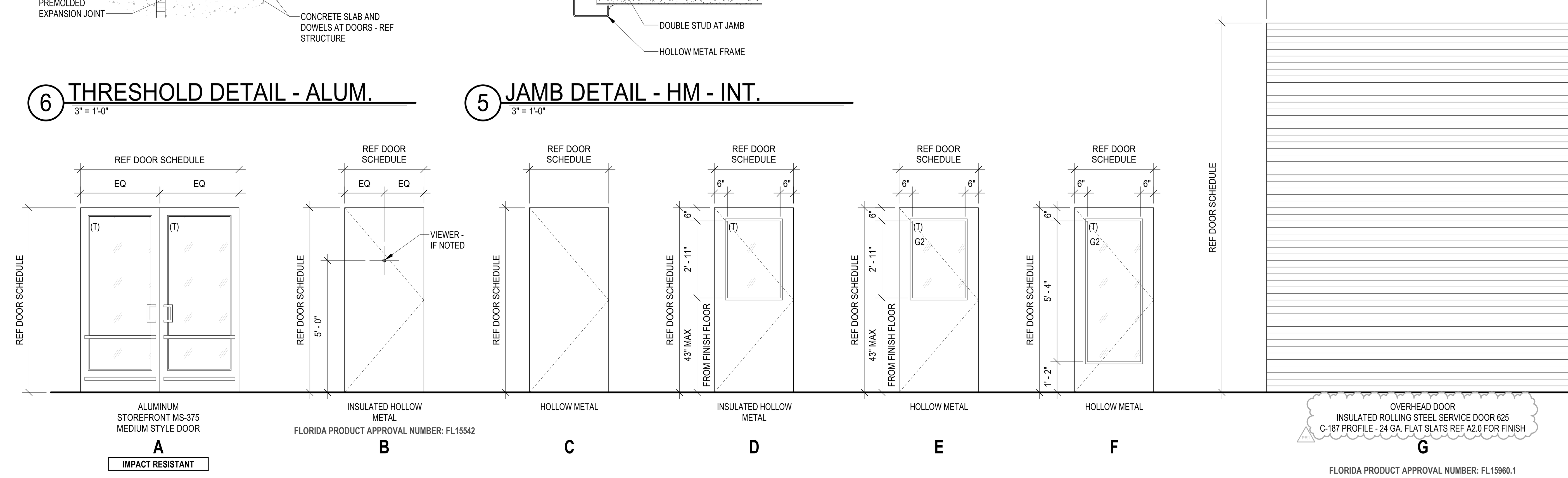
5 JAMB DETAIL - HM - INT.
3" = 1'-0"



4 HEAD DETAIL - HM - INT.
3" = 1'-0"



3 THRESHOLD DETAIL - HM
3" = 1'-0"



1 DOOR TYPES
3/8" = 1'-0"

GLAZING PER MANUFACTURER

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EQUIPMENTSHARE - LAKE CITY, FL
US-90 & PRICE CREEK ROAD
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PR1	PR1	10.13.2023
PR2	PR2	11.10.2023
PR4	PR4	04.25.2024

CHECKED BY: SJB
DRAWN BY: HLB
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DOOR SCHEDULE & DETAILS

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