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# BANK ON BUFFALO

## New Community Branch

### Niagara Falls

7121 Niagara Falls Boulevard  
Niagara Falls, New York 14304



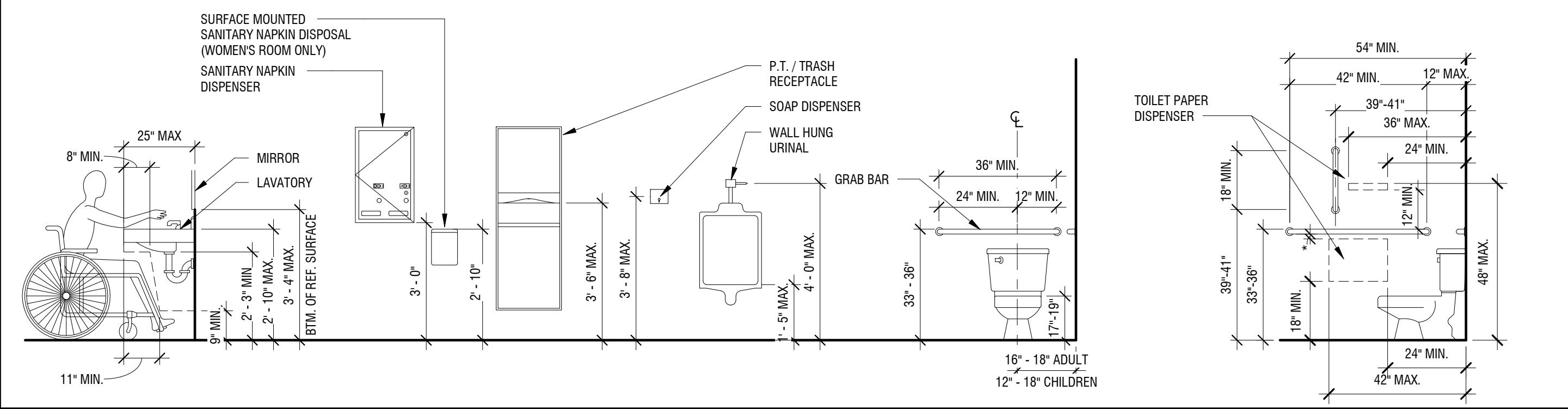
ISSUED FOR:  
CONSTRUCTION



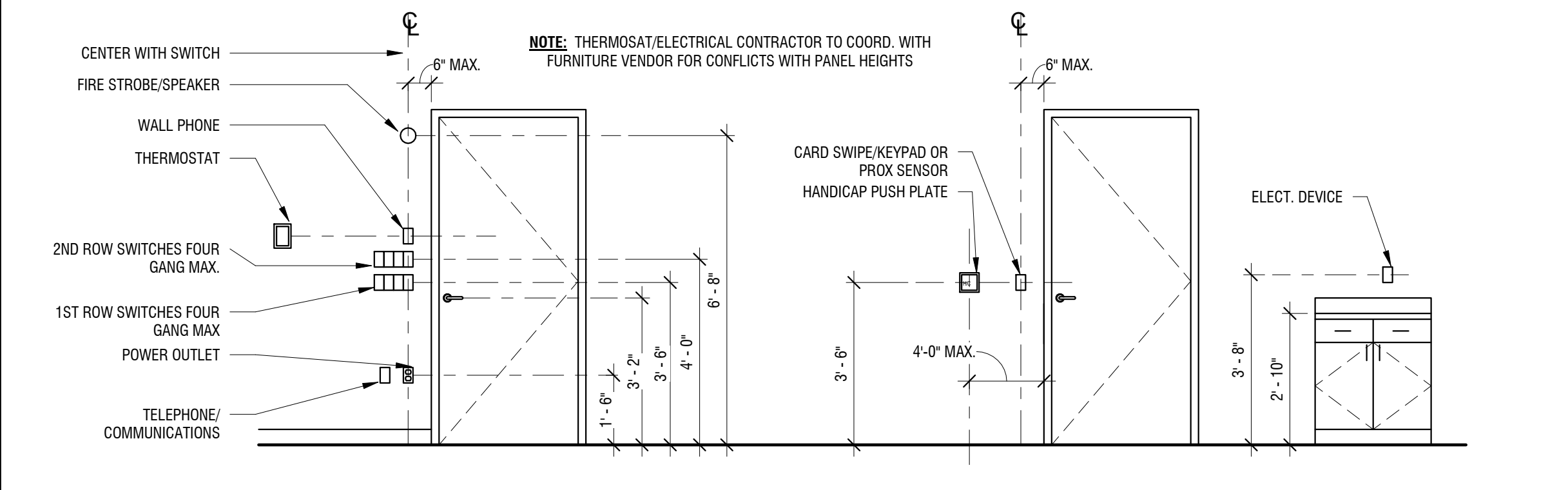
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## TYPICAL ADA TOILET ROOM MOUNTING HEIGHTS & DIMENSIONS



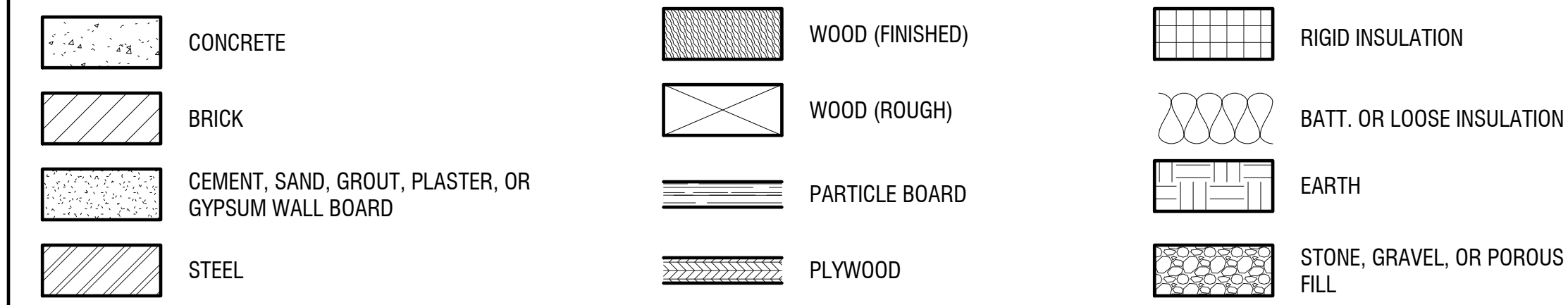
## ELECTRICAL DEVICE MOUNTING HEIGHTS



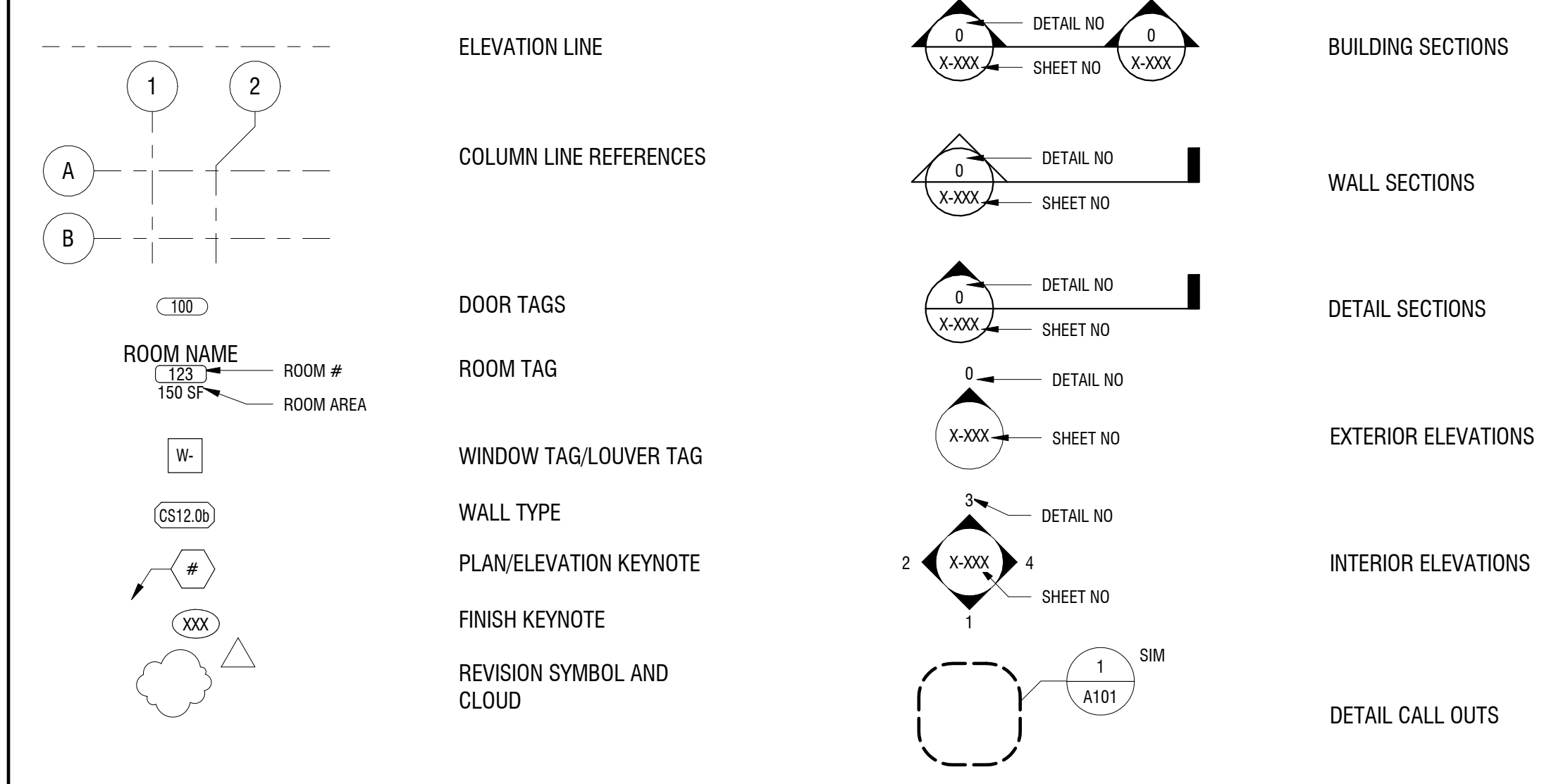
## KEY TO STANDARD ABBREVIATIONS

AFB	ABOVE FINISHED FLOOR	DEM	DEMOLISH / DEMOLITION	HT	HEIGHT	O.C.	ON CENTER	SPEC	SPECIFICATIONS
ACOUS	ACOUSTICAL	DET.	DETAIL	HC	HOLLOW CORE	OPP	OPPOSITE	SQ	SQUARE
ACT.	ACOUSTICAL TILE	DIAG.	DIAGONAL	HM	HOLLOW METAL	O.D.	OUTSIDE DIAMETER	SS	STAINLESS STEEL
ADD	ADDENDUM	DIA.	DIAMETER	HORIZ	HORIZONTAL	OH	OVERHEAD	SP	STAND PIPE
ADJ	ADJACENT	DIFF.	DIFFUSER	HB	HOSE BIB	STL	STANDARD	STD	STANDARD
AIR COND	AIR CONDITION	DISP.	DISPENSER	H.C.	HOSE CABINET	H.P.L.	HIGH PRESSURE PLASTIC LAMINATE	STL	STEEL
A.C.	ALTERNATE	DR	DOOR	H.P.L.	HIGH PRESSURE PLASTIC LAMINATE	P.NL	PANEL	STL	STEEL
ALUM	ALUMINUM	DBL	DOUBLE	H.W.	HOT WATER	P.T.D.	PAPER TOWEL DISPENSER	STRICT.	STRUCTURAL
A.B.	ANCHOR BOLT	DN	DOWN	HR.	HOUR	P.V.M.T.	PAVEMENT	SUSP.	SUSPENDED
APPROX	APPROXIMATE	DS	DOWNSPOUT	I.D.	INSIDE DIAMETER	P.LAM	PLASTIC LAMINATE	SYM	SYMMETRICAL
ARCH	ARCHITECTURAL	DWG	DRAWING	INSUL	INSULATION	PL	PLATE	TEL	TELEPHONE
AD	AREA DRAIN	D.F.	DRINKING FOUNTAIN	INS. GL.	INSULATED GLASS	PLMB	PLUMBING	TEMP	TEMPORARY
AUTO	AUTOMATIC	E.A.	EACH	INT.	INTERIOR	PT	POINT	THK	THICK (NESS)
B.E.J.	BRICK EXPANSION JOINT	ELEC	ELECTRIC (AL.)	INT. GL.	INTERIOR GLASS	PVC	POLYVINYL CHLORIDE	T&G	TONGUE & GROOVE
BSMT	BASEMENT	EWC	ELECTRIC WATER COOLER	INT.	INTERIOR	PCF	POUNDS PER CU.F.T.	T.O.F.	TOP OF FOUNDATION
BM	BEAM	EL	ELEVATION	IV	INTRAVENOUS	PSI	POUNDS PER SQ.INCH	T.O.S.	TOP OF STEEL
BRG	BEARING	ELEV.	ELEVATOR	INV	INVERT	PSF	POUNDS PER SQ.F.T.	T.O.W.	TOP OF WALL
B.M.	BENCH MARK	EQ	EQUAL	JAN	JANITOR	P.P.	POWER PANEL	TYP	TYPICAL
BET	BETWEEN	E.F.	EXHAUST FAN	JT	JOINT	PRE.FAB.	PREFABRICATED	U.C.	UNDERCUT
BIT	BITUMINOUS	EXIST.	EXISTING	KIT	KITCHEN	PREF.	PREFINISHED	U/C	UNDER COUNTER
BLK	BLOCK	EXP. JT.	EXPANSION JOINT	KO	KNOCK OUT	PROJ.	PROJECTION	U.C.L.	UNDER COUNTER LIGHT
BLKG	BLOCKING	EXP'D	EXPOSED	LAM	LAMINATED	FL	PROPERTY LINE	U.L.	UNDERWRITERS LABORATORIES INC.
BD	BOARD	E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM	LH	LEFT HAND	QTY	QUANTITY	UR	UNLESS OTHERWISE NOTED
BDT	BOTTOM	F.C.U.	FAN COIL UNIT	LEN.	LENGTH	QT	QUARRY TILE	UR	UNLESS OTHERWISE NOTED
BRK	BRICK	FIN	FINISH (ED.)	LTWT	LIGHT WEIGHT	RAD	RADIUS	U.H.	UNIT HEATER
B.C.	BRICK COURSE	F.A.	FIRE ALARM	L.F.	LINEAR FEET	R.W.C.	RAIN WATER CONDUCTOR	U.O.N.	UNIT VENTILATOR
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CAB.	LL	LIVE LOAD	REC.	RECESS (ED.)	U.V.	UNIT VENTILATOR
BUR	BUILT-UP ROOFING	FHC	FIRE HOSE CABINET	LLH	LONG LEG HORIZONTAL	RE:	REFER TO	U.O.N.	UNIT VENTILATOR
B.O.	BY OWNER	FL	FIRE PROOFING	LLV	LONG LEG VERTICAL	R.C.P.	REFLECTED CEILING PLAN	UR	UNLESS OTHERWISE NOTED
CAB	CABINET	F.P.	FLOOR FINISH	L.P.	LOW POINT	REFR.	REFRIGERATOR	V.T.R.	VENT THRU ROOF
C.H.	CABINET HEATER	F.D.	FLOOR DRAIN	M.H.	MANHOLE	REG.	REGISTER	VENT.	VENTILATOR
CHNL	CHANNEL	FT	FOOTING	MFR	MANUFACTURER	REIN.	REINFORCE (D) (ING)	V.I.F.	VERIFY IN FIELD
C.O.	CLEAN OUT	FTG	FOOTING	M.O.	MASONRY OPENING	RECD	REQUIRED	VERT	VERTICAL
CO 2	CARBON DIOXIDE	FDTN	FOUNDATION	MAX	MAXIMUM	RET	RETURN	VEST	VESTIBULE
CO 2	CARBON DIOXIDE	GAL	GALLON	MECH	MECHANICAL	RA	RETURN AIR	V.C.T.	VINYL COMPOSITION TILE
CPT	CARPET	GALV	GALVANIZED	MTL	METAL	REV	REVISION	V.V.C.	VINYL WALL COVERING
C.W.	COLD WATER	GI	GALVANIZED IRON	MIN.	MINIMUM	RH	RIGHT HAND	WC	WATER CLOSET
C.I.	CAST IRON	GA	GAGE	MISC.	MISCELLANEOUS	R.O.	RIGHT OF WAY	W.L.	WATER LINE
C.B.	CATCH BASIN	G.C.	GENERAL CONTRACT	N.L.	NIGHT LIGHT	R.M.	ROOM	W.P.	WATERPROOF
C	CENTER LINE	G.W.B.	GYPSUM WALL BOARD	N.O.	NITROUS OXIDE	RND	ROUND	WS	WEATHER STRIP
CEM	CEMENT	HDW	HARDWARE	N.R.C.	NOISE REDUCTION COEF.	S.N.C.	SAN NAP CABINET	WT	WEIGHT
CM	CENTIMETER	HD.WD.	HARDWOOD	N.I.C.	NOT IN CONTRACT	S.N.D.	SAN NAP DISPOSER	W/WF	WELDED WIRE FABRIC
CT	CERAMIC TILE	HTR	HEATER	N.T.S.	NOT TO SCALE	SECT	SECTION	W	WITH
CLG	CEILING	HTG	HEATING	NOM	NOMINAL	SHT	SHEET	W/O	WITHOUT
CLR	CLEAR	HVAC	HEATING, VENTILATING & AIR CONDITIONING	NO.	NUMBER	SIM	SIMILAR	WD	WOOD
COL	COLUMN					SPKR	SPEAKER		
CONC.	CONCRETE								
CMU	CONCRETE MASONRY UNIT								
CONT.	CONTINUOUS								
CJT	CONTROL JOINT								
CONV.	CONVECTOR								
CORR.	CORRIDOR								
CRS	COURSE								

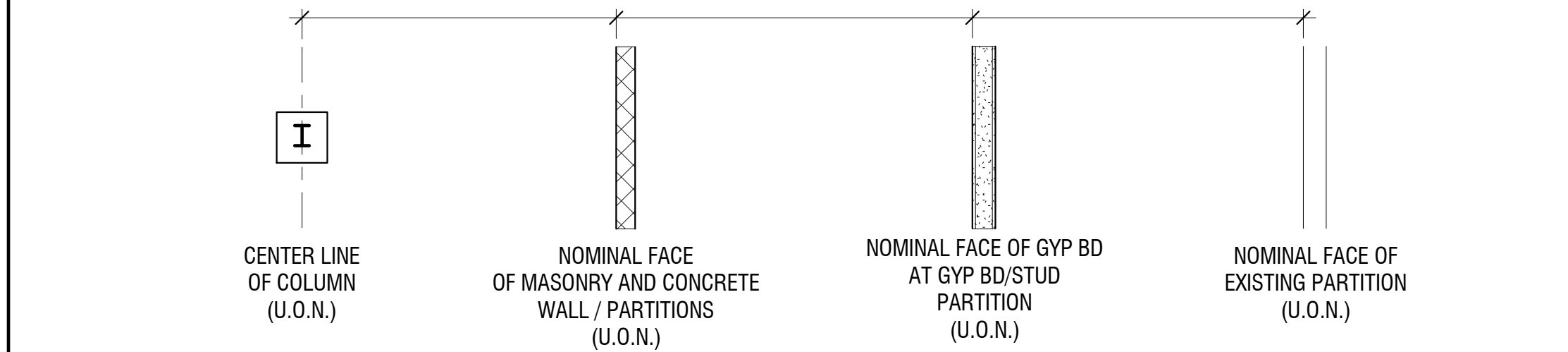
## MATERIAL SYMBOLS



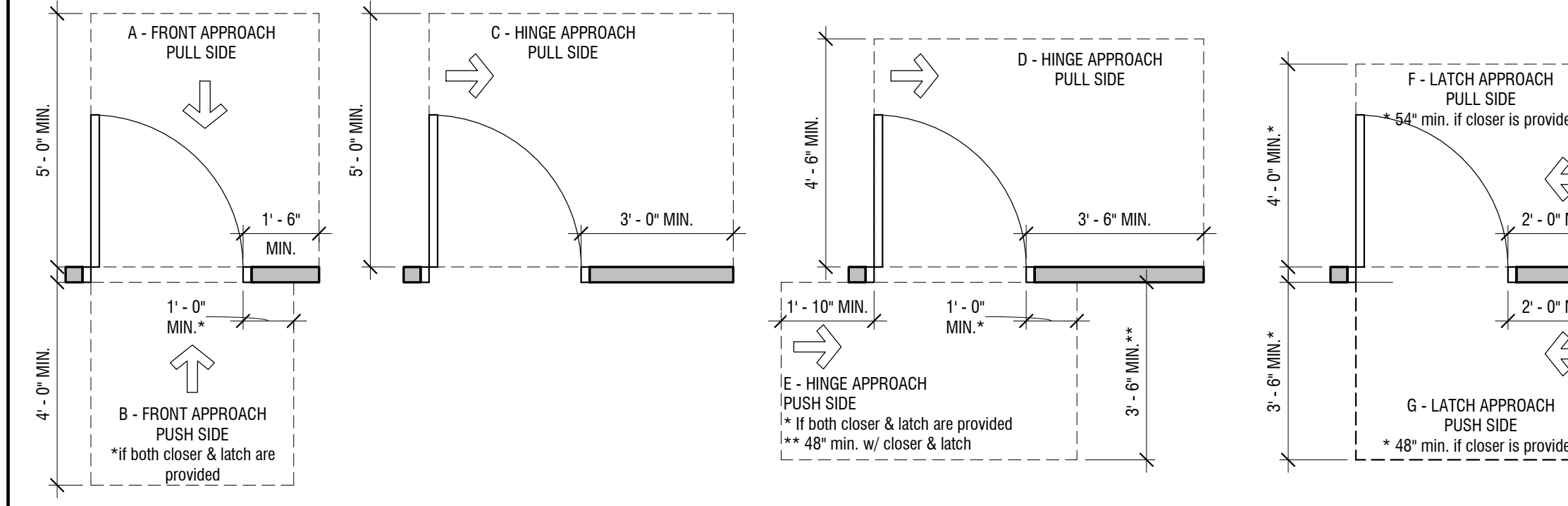
## ARCHITECTURAL DRAWINGS SYMBOLS



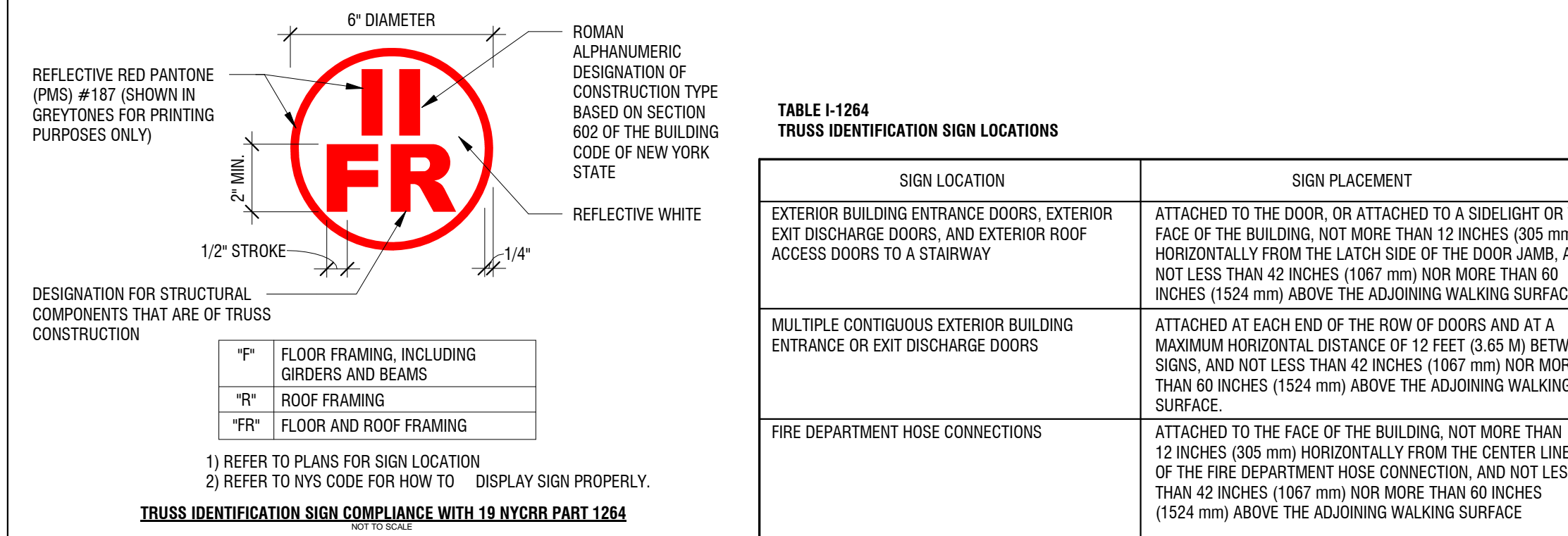
## TYPICAL PLAN DIMENSIONING



## DOOR APPROACH CLEARANCES



## TRUSS IDENTIFICATION SIGNAGE



NOT FOR CONSTRUCTION

It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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## BANK ON BUFFALO



## NEW COMMUNITY BRANCH - NIAGARA FALLS

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:	2181539	
DRAWN BY:	JMR	
REVIEWED BY:	RJN	
ISSUED FOR:	BID SET	
DATE:	25 JAN 2019	
DRAWING NAME:		

## NOTES, SYMBOLS & ABBREVIATIONS

DRAWING NUMBER:

**G002**

**GENERAL STRUCTURAL NOTES:**

- BUILDING CODE: INTERNATIONAL BUILDING CODE, AS ADOPTED BY NEW YORK STATE.
- CONSTRUCTION LOADING: LOADS IMPOSED ON THE BASE BUILDING STRUCTURE AND TEMPORARY CONDITIONS INTENDED TO ACCOMMODATE MEANS AND METHODS ARE NOT EXPLICITLY CONSIDERED IN THIS DESIGN. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF RECORD REGARDING CONSTRUCTION LOADS AND TEMPORARY CONDITIONS IMPOSED ON THE BUILDING STRUCTURE AND SHALL COMPENSATE THE ENGINEER OF RECORD FOR REVIEWING THESE CONDITIONS.
- COORDINATION WITH OTHER DISCIPLINES: THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.
- EXISTING CONDITIONS: THE INFORMATION SHOWN ON THESE DOCUMENTS IS THE BEST REPRESENTATION OF EXISTING CONDITIONS AVAILABLE TO THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND BRING TO THE ENGINEER'S AND CONSTRUCTION MANAGER'S ATTENTION ANY DISCREPANCIES PRIOR TO COMMENCING WORK. UPON RECEIPT OF SHOP DRAWINGS, THE ENGINEER HAS THE RIGHT TO ASSUME THAT ALL FIELD DIMENSIONS, ELEVATIONS, AND CONDITIONS HAVE BEEN VERIFIED BY THE CONTRACTOR AND THAT THE SHOP DRAWINGS ACCURATELY REFLECT SUCH VERIFICATIONS UNLESS STATED OTHERWISE IN THE SHOP DRAWINGS.
- EXISTING STRUCTURES: ALL EXISTING STRUCTURES ADJACENT TO NEW WORK ARE TO BE ADEQUATELY PROTECTED AND/OR SUPPORTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY NEW OR EXISTING CONSTRUCTION DAMAGED WHILE WORK IS IN PROGRESS.
- OPENINGS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SIZE AND LOCATION OF ALL OPENINGS IN NEW AND EXISTING CONSTRUCTION WITH THE DISCIPLINE REQUIRING THEM. THE CONTRACTOR SHALL SUBMIT A SINGLE DIMENSIONED AND COORDINATED DRAWING FOR EACH LEVEL SHOWING THE LOCATIONS OF ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES.

**FOUNDATION NOTES:**

- THE FOUNDATION DESIGN FOR NEW STRUCTURE IS BASED ON THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL EVALUATION REPORT TITLED "GEOTECHNICAL ENGINEERING REPORT FOR PROPOSED WAREHOUSE AND RETAIL FACILITY, NAGARA FALLS, NEW YORK AND PREPARED BY BUFFALO DRILLING COMPANY, INC. DATED DECEMBER 14, 1990. THE CONTRACTOR SHALL READ AND BE FAMILIAR WITH THIS REPORT AND THE RECOMMENDATIONS CONTAINED WITHIN. (ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF. FOUNDATIONS SHALL BEAR ON SOUND, NATIVE SOIL OR SELECT IMPORTED STRUCTURAL FILL.)
- TAKE ALL NECESSARY PRECAUTIONS WHEN EXCAVATING OR DRILLING ADJACENT TO EXISTING STRUCTURES TO AVOID DISTURBING EXISTING FOUNDATIONS. DO NOT EXCAVATE BELOW EXISTING FOUNDATIONS. CONTACT THE ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWING.
- ALL EXCAVATIONS SHALL FULLY CONFORM TO LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
- DO NOT BACKFILL AGAINST CONCRETE ELEMENTS UNTIL PLACED CONCRETE HAS REACHED 75% OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
- BACKFILL BOTH SIDES OF FOUNDATION WALLS IN EQUAL, ALTERNATE LIFTS IN ORDER TO AVOID IMPOSING UNBALANCED LATERAL PRESSURE ON THE WALLS.
- ALLOW TESTING AGENCY TO INSPECT AND APPROVE ALL COMPACTED SUBGRADE AND FILL LAYERS PRIOR TO FURTHER BACKFILL AND/OR PLACEMENT OF CONCRETE. TESTING AND INSPECTION RESULTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
- THE SUITABILITY AND STABILITY OF EXISTING SOILS AND FILL, THE DEPTHS AND LATERAL LIMITS OF UNSUITABLE MATERIAL TO BE REMOVED, AND ADEQUACY OF FOUNDATION BEARING GRADES SHALL BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER.
- BACKFILL AND FILL MATERIALS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO THE MODIFIED PROCTOR TEST (ASTM D-1557). ALL EXISTING BACKFILL SHALL BE RECOMPACTED AS SUCH.
- EXCAVATION AND BACKFILL OPERATIONS SHALL BE MAINTAINED IN A DRY CONDITION. SURFACE AND INFILTRATING WATER SHALL BE REMOVED BY SITE GRADING AND/OR BY PUMPING FROM SUMPS AS REQUIRED. DO NOT PLACE FOUNDATION CONCRETE IN WATER OR ON FROZEN GROUND.
- PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE. DO NOT USE SALT OR CHLORIDE COMPOUNDS TO DE-ICE THE SITE.
- THE ELEVATIONS SHOWN ON THE DRAWINGS ARE ANTICIPATED AND ACTUAL ELEVATIONS ARE TO BE ESTABLISHED IN THE FIELD BY THE GEOTECHNICAL ENGINEER. BUT IN NO CASE SHALL THE BOTTOM OF SPREAD FOOTINGS OR WALL FOOTINGS BE LOCATED LESS THAN 4 FEET BELOW THE LOWEST ADJACENT SURFACE EXPOSED TO FREEZING AND 1 FOOT 6 INCHES BELOW THE BOTTOM OF THE FLOOR SLAB FOR INTERIOR SPACES.

**CONCRETE NOTES:**

- PROVIDE THE FOLLOWING MINIMUM CONCRETE CLEAR COVER FOR REINFORCING STEEL, UNLESS OTHERWISE NOTED:
  - CONCRETE PLACED AGAINST EARTH: 3.0 IN.
  - FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
    - THROUGH #18 BARS: 2.0 IN.
    - #5 BARS AND SMALLER: 1.5 IN.
  - FORMED SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
    - 14 AND #18 BARS: 1.5 IN.
    - #11 BARS AND SMALLER: 1.0 IN.
- ALL CONCRETE WORK, CONSTRUCTION, AND REINFORCING DETAILS SHALL CONFORM TO THE "BUILDING CODE OF NEW YORK STATE, LATEST EDITION.
- ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318.
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
- ALL REINFORCING SHALL BE LAPPED OR EMBEDDED IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED. THE BARS TOGETHER AT LAP, ALL LAP SPLICES ARE CLASS B, U.O.N.
- PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING AT CORNERS OR INTERSECTIONS.
- CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE.
- PRIOR TO PLACEMENT OF CONCRETE, A FIELD REPRESENTATIVE SHALL BE INFORMED A MINIMUM OF 24 HOURS IN ADVANCE OF PLACEMENT, TO ALLOW INSPECTION OF REINFORCING STEEL, AND PREPARATION FOR TAKING CONCRETE SAMPLES. INDEPENDENT TESTS ARE REQUIRED FOR ALL CONCRETE PLACEMENTS.
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT.
- FURNISH AND INSTALL WATERSTOPS AT ALL HORIZONTAL AND VERTICAL JOINTS IN FOOTINGS AND FOUNDATION WALLS ADJACENT TO EXISTING FOUNDATION WALLS AND FOOTINGS.
- W.W.R. SHALL CONFORM TO ASTM A1064 AND SHALL BE FABRICATED INTO FLAT SHEETS.
- VAPOR BARRIER: POLYETHYLENE SHEET, ASTM D 4397, NOT LESS THAN 15-MIL, LOCATED BELOW INTERIOR SLABS-ON-GRADE.
- EPOXY ADHESIVE: HILTI HIT-HY 200 OR SIMPSON SET EPOXY.
- GROUT: NON-METALLIC/NON-SHRINK STRUCTURAL GROUT. FIVE STAR GROUT OR APPROVED EQUAL.
- PROTECT CONCRETE FROM PREMATURE DRYING IMMEDIATELY AFTER PLACEMENT. CURING OF CONCRETE SLABS MUST START WITHIN 2 HOURS AFTER FINISHING OPERATIONS ARE COMPLETE. SLABS-ON-GRADE SHALL BE WET CURED FOR 7 DAYS. CURING COMPOUNDS ARE PROHIBITED.
- SLABS-ON-GRADE SHALL HAVE CONTROL JOINTS AS SHOWN ON PLANS. SAW CUT JOINTS SHALL BE MADE WITHIN 12 HOURS OF PLACING SLAB. AFTER CONCRETE IS CURED AND READY FOR PLACEMENT OF FLOOR FINISH, ALL SLABS INSIDE THE BUILDING SHALL HAVE CONTROL JOINTS FILLED WITH APPROVED JOINT FILLER.
- CONCRETE SHALL BE CONTROLLED, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY.
- CONDUIT OR PIPES SHALL BE PLACED UNDER SLABS-ON-GRADE.
- ALUMINUM CONDUITS OR PIPES SHALL NOT BE PLACED IN CONCRETE.

**CONCRETE MIX NOTES:**

- SUBMIT MIX DESIGNS FOR REVIEW AND APPROVAL.
- FOOTINGS: PROPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS:
  - MINIMUM COMPRESSIVE STRENGTH: 4500 PSI AT 28 DAYS.
  - MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO: 0.45.
  - SLUMP LIMIT: 8 INCHES FOR CONCRETE WITH VERIFIED SLUMP OF 2 TO 4 INCHES BEFORE ADDING WATER REDUCING, HIGH-RANGE WATER REDUCING, OR PLASTICIZING ADMIXTURE, +/- 1 INCH.
  - AIR CONTENT: AS MIXED.
- FOUNDATION WALLS AND PIERS: PROPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS:
  - MINIMUM COMPRESSIVE STRENGTH: 5000 PSI AT 28 DAYS.
  - MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO: 0.40.
  - SLUMP LIMIT: 8 INCHES FOR CONCRETE WITH VERIFIED SLUMP OF 2 TO 4 INCHES BEFORE ADDING WATER REDUCING, HIGH-RANGE WATER REDUCING, OR PLASTICIZING ADMIXTURE, +/- 1 INCH.
  - AIR CONTENT: 6 PERCENT PLUS OR MINUS 1.5 PERCENT, AT POINT OF DELIVERY.
- INTERIOR SLABS-ON-GRADE: PROPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS:
  - MINIMUM COMPRESSIVE STRENGTH: 4000 PSI AT 28 DAYS.
  - MINIMUM CEMENTITIOUS MATERIALS CONTENT: 540 LB/CU. YD.
  - SLUMP LIMIT: 5 INCHES PLUS OR MINUS 1 INCH.
  - AIR CONTENT: AS MIXED. DO NOT ALLOW AIR CONTENT OF TROWELED FLOORS TO EXCEED 3 PERCENT.
- EXTERIOR CONCRETE: PROPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS:
  - MINIMUM COMPRESSIVE STRENGTH: 5000 PSI AT 28 DAYS.
  - MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO: 0.40.
  - SLUMP LIMIT: 5 INCHES PLUS OR MINUS 1 INCH.
  - AIR CONTENT: 6 PERCENT PLUS OR MINUS 1.5 PERCENT, AT POINT OF DELIVERY.

**STRUCTURAL STEEL NOTES:**

- STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
  - WIDE FLANGE SHAPES: ASTM A992
  - PLATES, BARS AND ANGLES: ASTM A36
  - HOLLOW STRUCTURAL SECTIONS (HSS) - SQUARE OR RECTANGULAR: ASTM A500, GRADE C, Fy = 50 KSI
- BOLTED CONNECTIONS SHALL CONFORM TO THE FOLLOWING: HIGH-STRENGTH BOLTS (AS INDICATED ON PLANS): ASTM A325, ASTM A490
- ANCHOR RODS SHALL CONFORM TO THE FOLLOWING: ANCHOR RODS (U.O.N.): ASTM F1554, GRADE 36, WELDABLE (S1)
- WELDING ELECTRODES SHALL CONFORM TO THE FOLLOWING: AWS SPECIFICATIONS FOR ELECTRODES BASED ON WELDING PROCESS AND THE TYPE AND GRADE OF STEEL. E70XX ELECTRODES (MIN.) FOR FILLET WELDS.
- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
- SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE BY WELDING INCLUDING BEAM STIFFENERS, COLUMN CAPS AND BASES, HOLES AND CONNECTIONS.
- FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES UNLESS OTHERWISE NOTED.
- PROVIDE MOMENT AND SHEAR CONNECTIONS AS SHOWN SCHEMATICALLY IN THE DRAWINGS. ALL CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR LOADS SHOWN ON THE PLANS AND SHALL MEET THE CRITERIA SHOWN IN THE TYPICAL DETAILS.
- PROVIDE TEMPORARY BRACING FOR ALL ERECTED STEEL FRAMING UNTIL ALL CONNECTIONS HAVE BEEN FULLY TIGHTENED OR WELDED.
- CUTS, HOLES, COPIES, ETC., REQUIRED FOR WORK OF THE OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS AND MADE IN THE SHOP. FIELD CUTTING OR BURNING WILL NOT BE PERMITTED.
- ALL WELDING BOTH SHOP AND FIELD SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS. WELDING ELECTRODES SHALL CONFORM TO ASTM A233, E70-XX. MINIMUM WELD SIZE SHALL BE 1/4 INCHES (FILLET) UNLESS OTHERWISE NOTED.
- BITUMINOUS COAT ALL STRUCTURAL STEEL LOCATED BELOW GRADE.
- ALL EXTERIOR MEMBERS, LINTELS, ASSEMBLIES OR COMPONENTS SHALL BE GALVANIZED AND PAINTED.
- FINISH: PAINTED: MANUFACTURER'S STANDARD PRIMER. SEE SPECIFICATION. GALVANIZED: IN ACCORDANCE WITH ASTM A780.
- AFTER ERECTION, ALL DAMAGED AREAS IN THE SHOP COAT AND AT ALL FIELD WELD LOCATIONS, SHALL BE TOUCHED UP WITH THE SAME PAINT USED FOR THE PRIMER AND SHOP COAT. PREPARE SURFACES IN ACCORDANCE WITH SSPC-SP3, FOR PAINTED FINISH, OR IN ACCORDANCE WITH ASTM A780 IF FINISH IS GALVANIZED.

**STEEL JOIST NOTES:**

- WELD JOIST BOTTOM CHORD CONNECTIONS AFTER ROOFING AND OTHER DEAD LOADS HAVE BEEN INSTALLED.
- JOISTS SHALL BE LOADED AT PANEL POINTS OR EXTRA WEB MEMBERS SHALL BE ADDED PER DETAILS SHOWN ON TYPICAL DETAILS SHEET FOR CONCENTRATED LOADS NOT APPLIED AT PANEL POINTS. WEB MEMBER SIZES SHALL BE AS INDICATED.
- MANUFACTURER SHALL DESIGN JOISTS FOR SPECIAL LOADS INDICATED.
- CONTRACTOR SHALL COORDINATE JOIST SEAT DEPTHS PROVIDED BY MANUFACTURER WITH BEARING ELEVATIONS SHOWN. SEE TYPICAL BEARING DETAILS. TYPICAL BEARING DETAILS ARE PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE FINAL DESIGN AND LAYOUT OF JOIST BEARING DETAILS WITH THE MANUFACTURER AND SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.
- JOIST WEB TYPES MAY VARY DEPENDING ON MANUFACTURER. JOIST DETAILS HAVE BEEN DEVELOPED BASED ON ASSUMED WEB TYPES. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.

**STEEL DECK NOTES:**

- PROVIDE GALVANIZED STEEL DECK IN ACCORDANCE WITH ASTM A653. GALVANIZED WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
- PLACE STEEL DECK OVER A MINIMUM OF 3 SPANS IN THE DIRECTION INDICATED IN THE PLANS, UNLESS OTHERWISE NOTED.
- WELD DECKING TO STRUCTURAL STEEL BY CERTIFIED WELDERS USING PREQUALIFIED PROCEDURES. THE ERECTOR SHALL ESTABLISH A WELDING PROCEDURE FOR THE RIDGEL WELDING OF STEEL DECKING TO THE STRUCTURAL STEEL FOR THE PARTICULAR GAGES USED. PRIOR TO THE START OF ERECTION OF THE STEEL DECK, QUALIFY EACH WELDER USING THIS PROCEDURE AS WITNESSED BY THE OWNER'S TESTING LABORATORY.
- POWER-ACTUATED MECHANICAL FASTENERS APPROVED BY THE ENGINEER OF RECORD MAY BE USED IN LIEU OF WELDING THE DECKING TO THE STRUCTURAL STEEL.
- DO NOT HANG LOADS EXCEEDING 50 LBS. FROM ANY METAL DECKING. HANG ALL DUCTWORK, PIPING, ETC. DIRECTLY FROM STRUCTURAL STEEL.

**COLD-FORMED METAL STUD FRAMING NOTES:**

- ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.
- ALL 16 GAGE AND HEAVIER FRAMING STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A1003 WITH A MINIMUM YIELD STRENGTH OF 50 KSI, UNLESS OTHERWISE NOTED. MEETING THE TOLERANCES NOTED IN ASTM C955. ALL 18 GAGE AND LIGHTER FRAMING SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A1003 WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
- ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED MEETING ASTM A653, G-90.
- ALL VERTICAL STUDS SHALL BE BRACED AT 4 FEET ON CENTER VERTICALLY UTILIZING A HORIZONTAL STRAP AND BLOCKING OR COLD-ROLLED CHANNEL.
- PERSONNEL EXPERIENCED IN COLD-FORMED METAL FRAMING INSTALLATION SHALL INSTALL ALL METAL FRAMING.
- PROVIDE A DOUBLE STUD AT ALL CORNER CONDITIONS.
- WHERE PRESSURE TREATED LUMBER IS USED IN DIRECT CONTACT WITH GALVANIZED COLD FORMED FRAMING, USE FELT PAPER, CLOSED CELL FOAM, HEAVY PLASTIC, OR PAINT TO ISOLATE THE TWO MATERIALS FROM CORROSION. CONTRACTOR SHALL USE THE APPROPRIATE FASTENERS THAT DO NOT ACCELERATE CORROSION AS REQUIRED.
- AT VARIOUS LOCATIONS IN THE CONSTRUCTION DOCUMENTS, GAGE NO. ARE USED. THESE NUMBERS ARE FOR REFERENCE ONLY. MINIMUM ACCEPTABLE MATERIAL THICKNESS DELIVERED TO THE JOBSITE IS AS FOLLOWS:
 

REFERENCE ONLY	MINIMUM THICKNESS
.....(GAGE NO.)	(mils*)
.....20	33
.....18	43
.....16	54
.....14	68
.....12	97

\* 1 mil = 1/1000 inch

**SPECIAL INSPECTION NOTES:**

- ALL PREFABRICATED ITEMS SHALL BE MANUFACTURED BY APPROVED AND CERTIFIED SHOPS.
- SPECIAL INSPECTIONS WILL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER'S TESTING AND SPECIAL INSPECTION REPRESENTATIVES.
- SEE DRAWINGS S-002 AND SPECIFICATIONS FOR STRUCTURAL SPECIAL INSPECTIONS AND ADDITIONAL INFORMATION.

**POST-INSTALLED ANCHORS NOTES:**

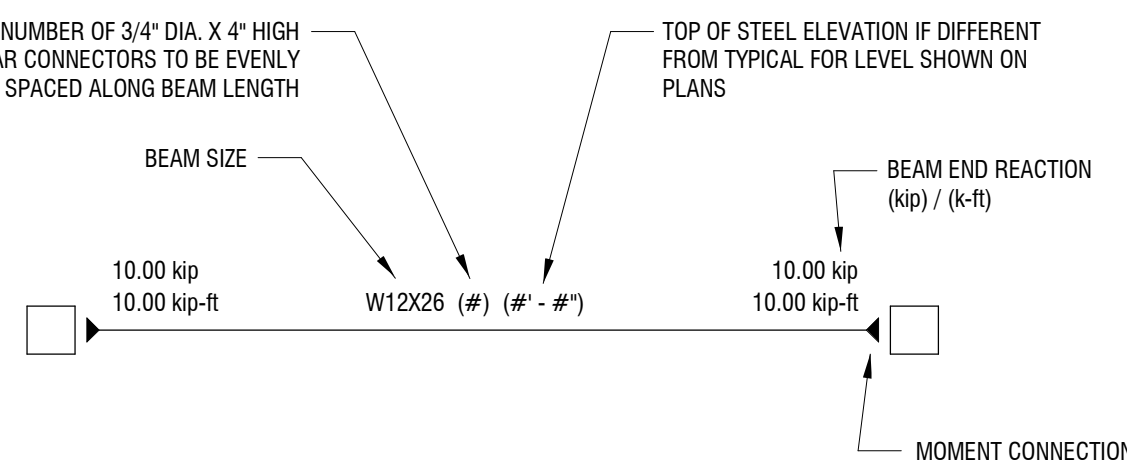
1. EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THEIR RESPECTIVE ICC-ES REPORT AND MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS:

APPLICATION	ANCHORING SYSTEM	ICC-ES REPORT
ANCHORAGE TO CONCRETE	HILTI HY 200 ADHESIVE	ESR-3187
ANCHORAGE TO CONCRETE	HILTI RE 500 V3 ADHESIVE	ESR-3814
ANCHORAGE TO CONCRETE	HILTI KWIK BOLT TZ	ESR-1917
ANCHORAGE TO CONCRETE	HILTI KWIK HUS EZ	ESR-3027
ANCHORAGE TO CONCRETE	HILTI HSL-3	ESR-1545
ANCHORAGE TO CONCRETE	HILTI HDA	ESR-1546
REBAR DOWELING	HILTI RE 500 V3 ADHESIVE	ESR-3814
REBAR DOWELING	HILTI HY 200 ADHESIVE	ESR-3187

- ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT INCLUDING AN ICC-ES REPORT SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE, SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, ETC.
- AS PER OSHA 29 CFR 1926.1153, DRILLED HOLES FOR POST INSTALLED ANCHORS SHALL BE INSTALLED USING HILTI SAFE SET INSTALLATION WHICH CONSISTS OF DRILLING WITH A CODE APPROVED HILTI HOLLOW DRILL BIT ATTACHED TO A HILTI VACUUM SO NO FURTHER HOLE CLEANING IS REQUIRED FOR THREADED RODS AND/OR REBAR. IF A HILTI HIT-2 ROD IS USED WITH HY 200 ADHESIVE, NO HOLE CLEANING IS REQUIRED FOR BASE MATERIAL TEMPERATURES ABOVE 41 F. ALTERNATE OPTION IS DRILLING HOLES WITH AN APPROVED DUSTLESS SYSTEM AND THEN CLEANING HOLES WITH WIRE BRUSH AND COMPRESSED AIR THROUGH APPROVED ADAPTER THAT CAPTURES ALL DUST INTO A HEPA FILTERED VACUUM.
- ADHESIVE ANCHORS INSTALLED IN A HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION INTO CONCRETE AND SUPPORTING A SUSTAINED TENSION LOAD SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER. INSTALLER SHALL BE CERTIFIED THROUGH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUAL.
- CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE ANCHOR INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. CONTRACTOR SHALL SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL INSTALLING ANCHORS HAVE RECEIVED THE REQUIRED TRAINING PRIOR TO THE COMMENCEMENT OF WORK.
- ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR POST INSTALLED ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4.3.4.4 OF THE ICC-ES REPORT FOR THE INDIVIDUAL ANCHOR. SPECIAL INSPECTOR SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION EFFORTS.

**MISCELLANEOUS NOTES:**

- ALL ELEVATIONS ARE REFERENCED FROM FINISHED MAIN FLOOR ELEVATION [0' - 0']
- BEAM LEGEND



STRUCTURAL DESIGN TABLE - IBC 2015 VERSION (IN ACCORDANCE WITH APPLICABLE BUILDING CODE)			
BUILDING DATA:	LOCATION	7121 NIAGARA FALLS BOULEVARD, NIAGARA FALLS, NEW YORK 14304	IBC 2015 TABLE 1604.5
GEOTECHNICAL INFORMATION:	BUILDING OCCUPANCY RISK CATEGORY	II	IBC 2015 TABLE 1604.5
FLOOR LIVE LOAD:	ALLOWABLE BEARING PRESSURE	2500 PSF	
ROOF LIVE LOAD:	LOBBY OFFICES	LL1 LL2	100 PSF 50 PSF
SNOW LOAD:	ROOF	LLr	20 PSF
	SNOW LOAD IMPORTANCE FACTOR	Is	1.0
	GROUND SNOW LOAD	Pg	50 PSF
	SNOW EXPOSURE FACTOR	Ce	1.0
	THERMAL FACTOR	Ct	1.0
	FLAT ROOF SNOW	Pf	35.0 PSF
	DRIFTING SNOW		AS REQ. PER ASCE 7-10
	THERMAL FACTOR (CANOPY)	Ct	1.2
	FLAT ROOF SNOW (CANOPY)	Pf	42.0 PSF
WIND LOAD (MAIN WIND-FORCE RESISTING SYSTEM):	ANALYSIS PROCEDURE	Vuit	DIRECTIONAL PROCEDURE
	ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	V	115 mph
	WIND DIRECTIONALITY FACTOR	Kd	0.85
	EXPOSURE CATEGORY	Kz	8
	TOPOGRAPHIC FACTOR	G	1.00
	GUST-EFFECT FACTOR	G	0.85
	ENCLOSURE CLASSIFICATION	Gcpi	ENCLOSED
	INTERNAL PRESSURE COEFFICIENT	GCp1	+0.18/-0.18
	VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kz	0.58
	VELOCITY PRESSURE	q	16.7 PSF
	MINIMUM WALL WIND PRESSURE	Pmin	20.2 PSF
	MINIMUM ROOF WIND PRESSURE	Pmin	8 PSF
	NOTES		WIND LOADS ARE CALCULATED FROM THESE PARAMETERS FOR EACH SURFACE OF THE MAIN WIND-FORCE RESISTING SYSTEM.
WIND LOAD (COMPONENTS & CLADDING):	ANALYSIS PROCEDURE	V	METHOD 1
	BASIC WIND SPEED (3-SECOND GUST)	V	115 mph
	WIND DIRECTIONALITY FACTOR	Kd	0.85
	EXPOSURE CATEGORY	Kz	8
	TOPOGRAPHIC FACTOR	G	1.00
	ENCLOSURE CLASSIFICATION	Gcpi	ENCLOSED
	EFFECTIVE WIND AREA	Aeff	10 SQFT
	INTERNAL PRESSURE COEFFICIENT	GCp1	+0.18/-0.18
	VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kh	0.70
	VELOCITY PRESSURE	q	20.2 PSF
	MINIMUM DESIGN WIND PRESSURE	Pmin	+/-16 PSF
	NOTES		1. EFFECTIVE AREA ABOVE USED AS BASIS FOR "WORST CASE" PRESSURE CALCULATIONS. THE EFFECTIVE AREA FOR EACH INDIVIDUAL COMPONENT SHALL BE CALCULATED AND PRESSURE VALUES ADJUSTED ACCORDINGLY. 2. INCREASED WIND PRESSURES AT EDGES, OVERHANGS, AND OTHER SURFACES ARE AS DEFINED IN ASCE 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
EARTHQUAKE LOAD:	SEISMIC - FORCE RESISTING SYSTEM	H	STEEL SYSTEMS NOT SPECIFICALLY DETAILED
	SOIL SITE CLASSIFICATION	D (ASSUMED)	
	SPECTRAL RESPONSE ACCELERATION AT 0.2 SEC	Ss	0.209g
	SPECTRAL RESPONSE ACCELERATION AT 1.0 SEC	S1	0.0060g
	SEISMIC IMPORTANCE FACTOR	Ie	1.00
	DESIGN SPECTRAL RESPONSE COEFFICIENT	SDS	0.096g
	DESIGN SPECTRAL RESPONSE COEFFICIENT	SD1	0.096g
	SEISMIC DESIGN CATEGORY		B
	ANALYSIS PROCEDURE	Cs	EQUIV. LATERAL FORCE
	SEISMIC RESPONSE COEFFICIENT	R	0.074
	RESPONSE MODIFICATION FACTOR	R	3.0
	SEISMIC BASE SHEAR	V	15.3 KIPS

**STRUCTURAL ABBREVIATIONS LEGEND**

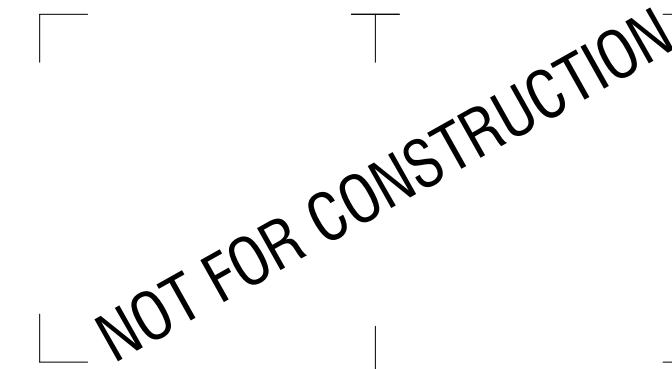
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
APPROX	APPROXIMATE
ARCH.	ARCHITECT/ARCHITECTURAL
B.F.	BOTTOM FACE
B.O.	BOTTOM OF
CIP	CAST-IN-PLACE
CFM	COLD-FORMED METAL FRAMING
CONC.	CONCRETE
C.J.	CONSTRUCTION JOINT
CONT.	CONTINUOUS
COV.	COVER
DIA.	DIAMETER
E.F.	EACH FACE
E.S.	EACH SIDE
E.W.	EACH WAY
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
(E)	EXISTING
F.F.E.	FINISHED FLOOR ELEVATION
FW	FLATWISE
F.D.	FLOOR DRAIN
F	FOOTING
FTG.	FOOTING
FND.	FOUNDATION
GAL.	GAGE
GALV.	GALVANIZED
H.P.	HIGH POINT

**STRUCTURAL ABBREVIATIONS LEGEND**

H.S.	HIGH STRENGTH
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MANUF.	MANUFACTURER
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
(N)	NEW
O.C.	ON CENTER
O.F.	OUTSIDE FACE
P.	PIER (SEE SCHEDULE)
PLF	POUNDS PER LINEAR FOOT
REINF.	REINFORCING, REINFORCEMENT
S.J.	SAW-CUT CONTROL JOINT
SPA. SP.	SPACE OR SPACING
STD.	STANDARD
SDI	STEEL DECK INSTITUTE
TSF	TON PER SQUARE FOOT
T&B	TOP & BOTTOM
T.F.	TOP FACE
T.O.	TOP OF
T.O.S.	TOP OF STEEL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.I.F.	VERIFY IN FIELD
VERT.	VERTICAL
W.W.R.	WELDED WIRE REINFORCEMENT
W/	WITH
W.P.	WORKING POINT



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It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **KRM**

REVIEWED BY: **MCW**

ISSUED FOR: **BID**

DATE: **JANUARY 2019**

DRAWING NAME:

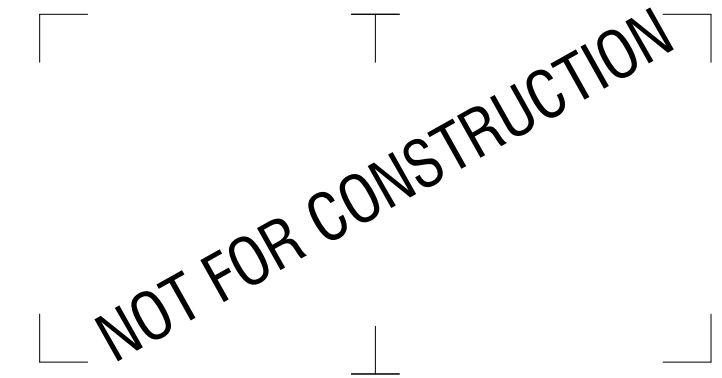
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STATEMENT OF SPECIAL INSPECTIONS	
LOCATION	7121 Niagara Falls Blvd., Niagara Falls, NY 14304
OWNER	Bank on Buffalo
DESIGN PROFESSIONAL IN CHARGE	Kevin R. Martens, P.E.
<p>This statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the applicable building code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompasses the following disciplines: STRUCTURAL. The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge (RDP). Discovered discrepancies shall be brought to the immediate attention of the contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the RDP. The Special Inspection program does not relieve the contractor of his or her responsibility for quality assurance.</p> <p>Interim reports shall be submitted to the Building Official and the RDP.</p> <p>A Final Report of Special Inspections documenting completion of all required Special Inspections, testing, and correction of any discrepancies noted in the inspections shall be submitted by the special inspection Coordinator prior to issuance of a Certificate of Use and Occupancy.</p> <p>Job site safety and means and methods of construction are solely the responsibility of the contractor.</p> <p>Interim reports shall be submitted monthly.</p> <p>In accordance with the applicable building code, the Observations and Inspections listed in the Schedule of Special Inspections are required.</p>	
<p>A Final Report of Special Inspections documenting completion of all required Special Inspections, testing, and correction of any discrepancies noted in the inspections shall be submitted by the special inspection Coordinator prior to issuance of a Certificate of Use and Occupancy.</p> <p>Job site safety and means and methods of construction are solely the responsibility of the contractor.</p> <p>Interim reports shall be submitted monthly.</p> <p>In accordance with the applicable building code, the Observations and Inspections listed in the Schedule of Special Inspections are required.</p>	
<p>In accordance with the applicable building code, the Observations and Inspections listed in the Schedule of Special Inspections are required.</p>	
SCHEDULE OF INSPECTION AND TESTING AGENCIES	
SPECIAL INSPECTION AGENCIES	FIRM ADDRESS TELEPHONE No.
Special Inspection Coordinator	
Inspector	
<p>Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent in accordance with the applicable building code, and not by the Contractor or Subcontractor whose work is to be inspected or tested. An approved agency shall be objective, competent and independent from the contractor responsible for the work being inspected. The agency shall also disclose to the building official and the registered design professional in responsible charge possible conflicts of interest so that objectivity can be confirmed.</p>	
STATEMENT OF CONTRACTORS RESPONSIBILITY	
<p>In accordance with the applicable building code, each contractor responsible for the construction of a main wind or seismic force-resisting system, designated seismic system or a wind or seismic force-resisting component listed in the statement of special inspections above shall submit a written statement of responsibility to the building official and the owner or the owner's authorized agent prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgment of awareness of the special requirements contained in the statement of special inspections.</p>	
QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS	
<p>The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all inspectors and testing technicians shall be provided.</p> <p>Key for Minimum Qualifications of Inspection Agents:</p> <p>When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test of inspection have a specific certification or license as indicated below, such designation shall appear below the Agency Number on the Schedule.</p>	
PE/SE	Structural Engineer - a licensed PE specializing in the design of building structures
PE/GE	Geotechnical Engineer - a licensed PE specializing in soil mechanics and foundations
EIT	Engineer - In - Training - a graduate engineer who has passed the Fundamentals of Engineering examination
AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION	
ACI-CFTT	Concrete Field Testing Technician - Grade 1
ACI-CCSI	Concrete Construction Special Inspector
ACI-LTT	Laboratory Testing Technician - Grade 1&2
ACI-STT	Strength Testing Technician
AMERICAN WELDING SOCIETY (AWS) CERTIFICATION	
AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector
INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION	
ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector
NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)	
NICET-CT	Concrete Technician - Levels I, II, III, & IV
NICET-ST	Soil Technicians - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV
REFERENCES	
CODE/STANDARD	TITLE
ACI 301	Standard Specifications for Structural Concrete.
ACI 318	Building Code Requirements for Structural Concrete
ACI 530.1/ASCE 6/TMS 602	Specifications for Masonry Structures
AISC 360	Specifications for Structural Steel Buildings
ASTM A6	Specifications for General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use.
ASTM A568	Specifications for Steel Sheet, Carbon and High Strength, Low-Alloy, Hot-Rolled and Cold Rolled.
ASTM C31	Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C94	Specifications for Ready-Mixed Concrete
ASTM C109	Test Methods for Compressive Strength of Hydraulic Cement Mortars (Using 2 in. or 50 mm Cube Specimens)
ASTM C138	Test Method for Unit Weight, Yield and Air Content (Gravimetric) of Concrete
ASTM C143	Test Method for Slump of Hydraulic Cement Concrete.
ASTM C172	Practice for Sampling Freshly Mixed Concrete
ASTM C173	Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C231	Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C567	Test Method for Unit Weight of Structural Lightweight Concrete
ASTM C1090	Test Method for Temperature of Freshly Mixed Portland Cement Concrete
ASTM C1064	Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic Cement Grout
ASTM C1314	Test Method for Constructing and Testing Masonry Prisms Used to Determine Compliance with Specified Compressive Strength of Masonry
ASTM E605	Standard Test Methods for Thickness and Density of Sprayed Fire-Resistive Material Applied to Structural Members
ASTM E736	Standard Test Method for Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members
ASTM E2174	Standard Practice for On-Site Inspection of Installed Firestops
ASTM E2393	Standard Practice for On-Site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers
AWCI 12-8	Standard Practice for the Testing and Inspection of Field Applied Thin Film Intumescent Fire-Resistive Materials
AWS D1.1	Structural Welding Code - Steel.
APPLICABLE BUILDING CODE	International Building Code 2015 with New York State Amendments
RCSC	Specification for Structural Joints Using High Strength Bolts.

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS			
<p>THE FOLLOWING TABLES COMPRISES THE STRUCTURAL SPECIAL INSPECTION REQUIREMENTS FOR THIS PROJECT IN ACCORDANCE WITH CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE. REFER TO THE PROJECT SPECIFICATIONS FOR REQUIRED QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION ACTIVITIES AND ADDITIONAL TESTING INFORMATION.</p>			
EARTHWORK - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING		STEEL CONSTRUCTION - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING	
AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	-	1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS		
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC		
CAST-IN-PLACE CONCRETE - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING		STEEL CONSTRUCTION - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING	
AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" AND C. INSPECT ALL OTHER WELDS.	PERIODIC PERIODIC CONTINUOUS	AWS D1.4 ACI 318: 26.6.4	-
3. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS.	CONTINUOUS PERIODIC	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.5.3 - 26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS.	CONTINUOUS CONTINUOUS	ACI 318: 26.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH. 26.8	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.11.2 (b)	-
OPEN-WEB STEEL JOISTS - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING		STEEL CONSTRUCTION - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING	
AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. INSTALLATION OF OPEN-WEB STEEL JOISTS			
A. END CONNECTIONS - WELDING OR BOLTED.	PERIODIC	S.JI SPECIFICATIONS LISTED IN SECTION 2207.1.	1705.2.3
B. BRIDGING - HORIZONTAL OR DIAGONAL			
1. STANDARD BRIDGING	PERIODIC	S.JI SPECIFICATIONS LISTED IN SECTION 2207.1.	
2. BRIDGING THAT DIFFERS FROM THE S.JI SPECIFICATIONS LISTED IN SECTION 2207.1.	PERIODIC		
COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING		STEEL CONSTRUCTION - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING	
AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. FOR WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM AND FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS AND HOLD-DOWNS.	REQUIRED FOR SEISMIC CATEGORY C, D, E OR F.	-	1705.12.3
2. MATERIAL VERIFICATION OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND CONNECTORS a. PRODUCT IDENTIFICATION TO CONFORM TO AISI STANDARDS AND AS SPECIFIED IN THE CONSTRUCTION DOCUMENTS OR APPROVED SHOP DRAWINGS.	PERIODIC	AISI TABLE D6.5	-
3. INSPECTION OF WELDING a. VERIFICATION OF WELDS MEET THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH AWS D1.3 AND THE CONSTRUCTION DOCUMENTS OR APPROVED SHOP DRAWINGS.	PERIODIC	AISI TABLE D6.6	-
4. INSPECTION OF MECHANICAL FASTENING a. VERIFICATION OF MECHANICAL FASTENERS MEET THE MATERIALS, PROCEDURES, AND WORKMANSHIP ARE IN CONFORMANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS AND THE CONSTRUCTION DOCUMENTS OR APPROVED SHOP DRAWINGS.	PERIODIC	AISI TABLE D6.7	-
5. INSPECTION OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION VERIFICATION OF FIELD INSTALLED MEMBERS, COMPONENT ASSEMBLIES AND CONNECTORS ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS OR APPROVED SHOP DRAWINGS.	PERIODIC	AISI TABLE D6.8	-
1. FABRICATOR'S SHOP TESTING AND QUALITY CONTROL PROGRAM: A. VERIFY FABRICATOR'S CERTIFICATION AND QUALITY CONTROL PROGRAM. B. SPECIAL INSPECTIONS REQUIRED IN FABRICATOR'S SHOP FOR ELEMENTS IDENTIFIED BELOW.	PERIODIC NOT REQUIRED, IF FABRICATOR IS AISC CERTIFIED	AISC PLANT CERTIFICATION PROGRAM	1705.2
2. INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS PRIOR TO BOLTING: A. VERIFY MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS. B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS. C. PROPER FASTENERS SELECTED FOR JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL. E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS. F. PRE-INSTALLATION VERIFICATION AND TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED. G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENERS.	CONTINUOUS PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N5.6-1	
3. INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS DURING BOLTING: A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED. B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION. C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING. D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE POST RIGID POINT TOWARD THE FREE EDGES.	PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N5.6-2	
4. INSPECTION TASK FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS AFTER BOLTING: A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	CONTINUOUS	AISC 360, TABLE N5.6-3	
5. INSPECTION TASKS PRIOR TO WELDING: A. WELDING PROCEDURE SPECIFICATIONS (WPSs) ARE AVAILABLE B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES ARE AVAILABLE C. MATERIAL IDENTIFICATION (TYPE/GRADE) D. WELDER IDENTIFICATION SYSTEM F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING & FACE, LEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE) G. CONFIGURATION AND FINISH OF ACCESS HOLE. H. FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) ALIGNMENT (TACK WELD QUALITY AND LOCATION)	CONTINUOUS CONTINUOUS PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N4.6-1	
6. INSPECTION TASKS DURING WELDING: A. USE OF QUALIFIED WELDERS B. CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKING AND EXPOSURE C. ENVIRONMENTAL CONDITIONS INCLUDING WIND SPEED WITHIN LIMITS, PRECIPITATION, AND TEMPERATURE WPS FOLLOWED D. SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED E. SELECTED WELDING MATERIALS F. WELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH) E. WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS	PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N4.6-2	
7. INSPECTION TASKS AFTER WELDING: A. WELDS CLEANED. B. SIZE, LENGTH, AND LOCATIONS OF WELDS C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION WELD-BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY D. ARC STRIKES E. K-AREA F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) G. REPAIR ACTIVITIES F. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERIODIC CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	AISC 360, TABLE N4.6-3	
8. VERIFY PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENT SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. VERIFY DIAMETER, GRADE, TYPE, AND LENGTH OF ANCHOR ROD OR EMBEDMENT ITEM AND THE EXTENT OR DEPTH OF THE EMBEDMENT INTO THE CONCRETE PRIOR TO PLACEMENT OF CONCRETE.	PERIODIC	AISC 360, N5.7	
9. INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS: A. DETAILS SUCH AS BRACING AND STIFFENERS. B. MEMBER LOCATIONS. C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	PERIODIC	AISC 360, N5.7	
10. INSPECT STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT: A. PLACEMENT AND INSTALLATION OF STEEL DECK. B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS.	PERIODIC	AISC 360, N6	



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2181539

DRAWN BY: KRM

REVIEWED BY: MCW

ISSUED FOR: BID

DATE: JANUARY 2019

DRAWING NAME:

**SPECIAL INSPECTIONS**

DRAWING NUMBER:

**S-002**

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NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2181539

DRAWN BY: KRM

REVIEWED BY: MCW

ISSUED FOR: BID

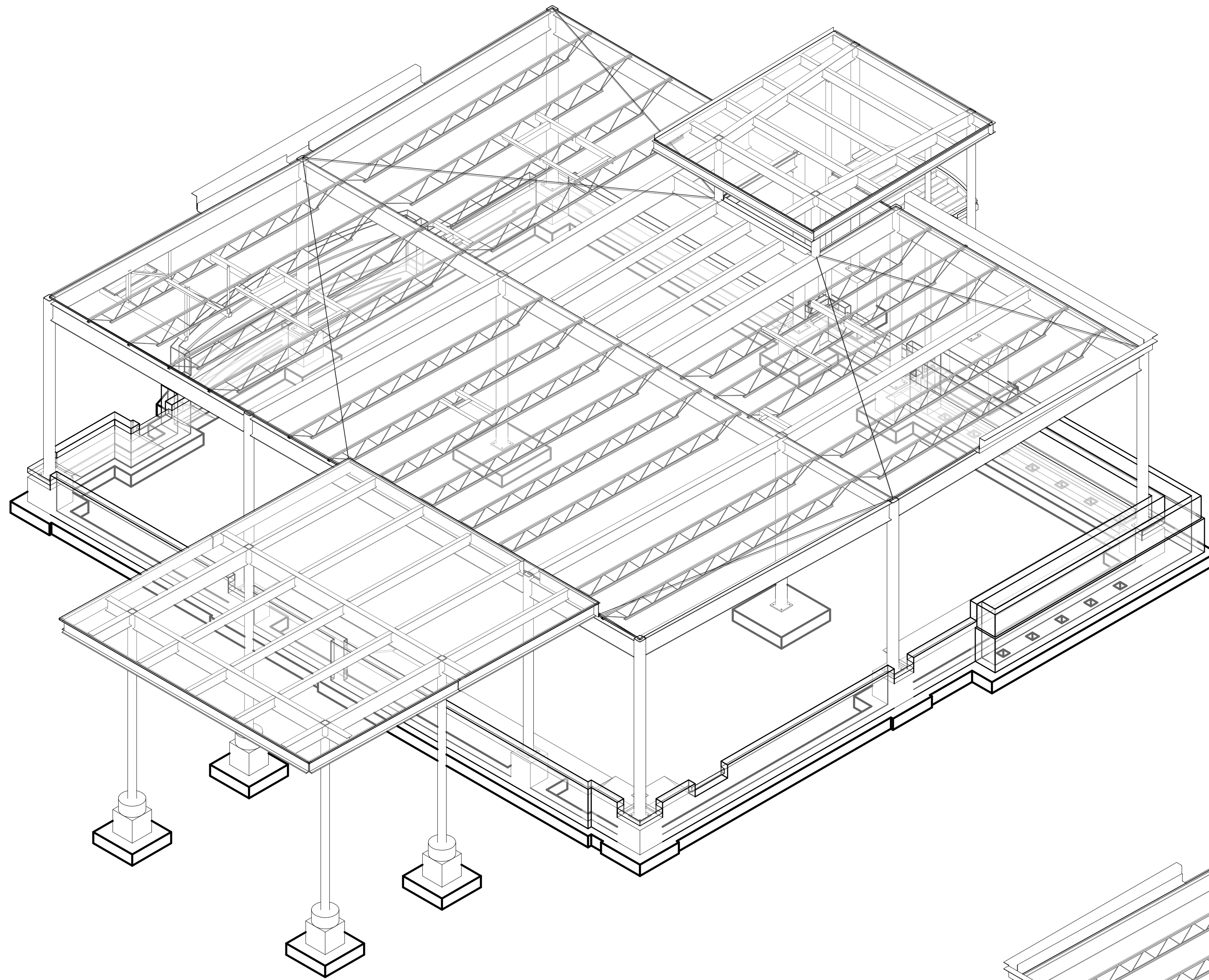
DATE: JANUARY 2019

DRAWING NAME:

**3D VIEWS**

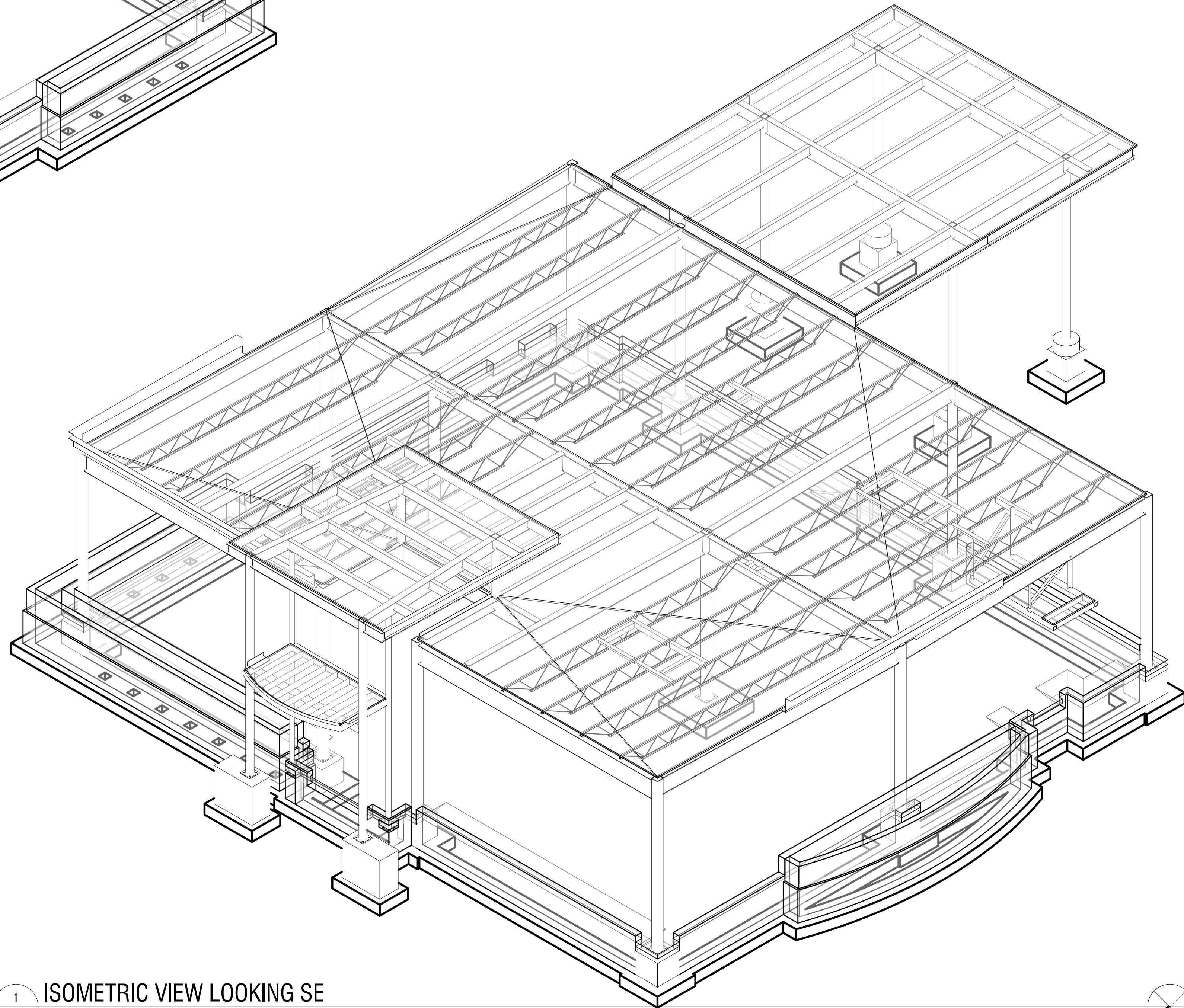
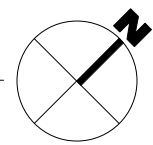
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**S-003**



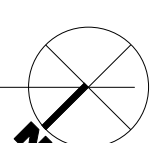
**2 ISOMETRIC VIEW LOOKING NW**  
NOT TO SCALE

- 3D ISOMETRIC PLAN NOTES:**
- FOR REFERENCE PURPOSES ONLY. NOT FOR CONSTRUCTION.
  - ISOMETRIC VIEW MAY NOT BE AN ACCURATE REPRESENTATION OF FRAMING CONDITIONS. SEE PLANS AND SECTIONS FOR ALL DIMENSIONS AND CONDITIONS.



**1 ISOMETRIC VIEW LOOKING SE**  
NOT TO SCALE

- 3D ISOMETRIC PLAN NOTES:**
- FOR REFERENCE PURPOSES ONLY. NOT FOR CONSTRUCTION.
  - ISOMETRIC VIEW MAY NOT BE AN ACCURATE REPRESENTATION OF FRAMING CONDITIONS. SEE PLANS AND SECTIONS FOR ALL DIMENSIONS AND CONDITIONS.





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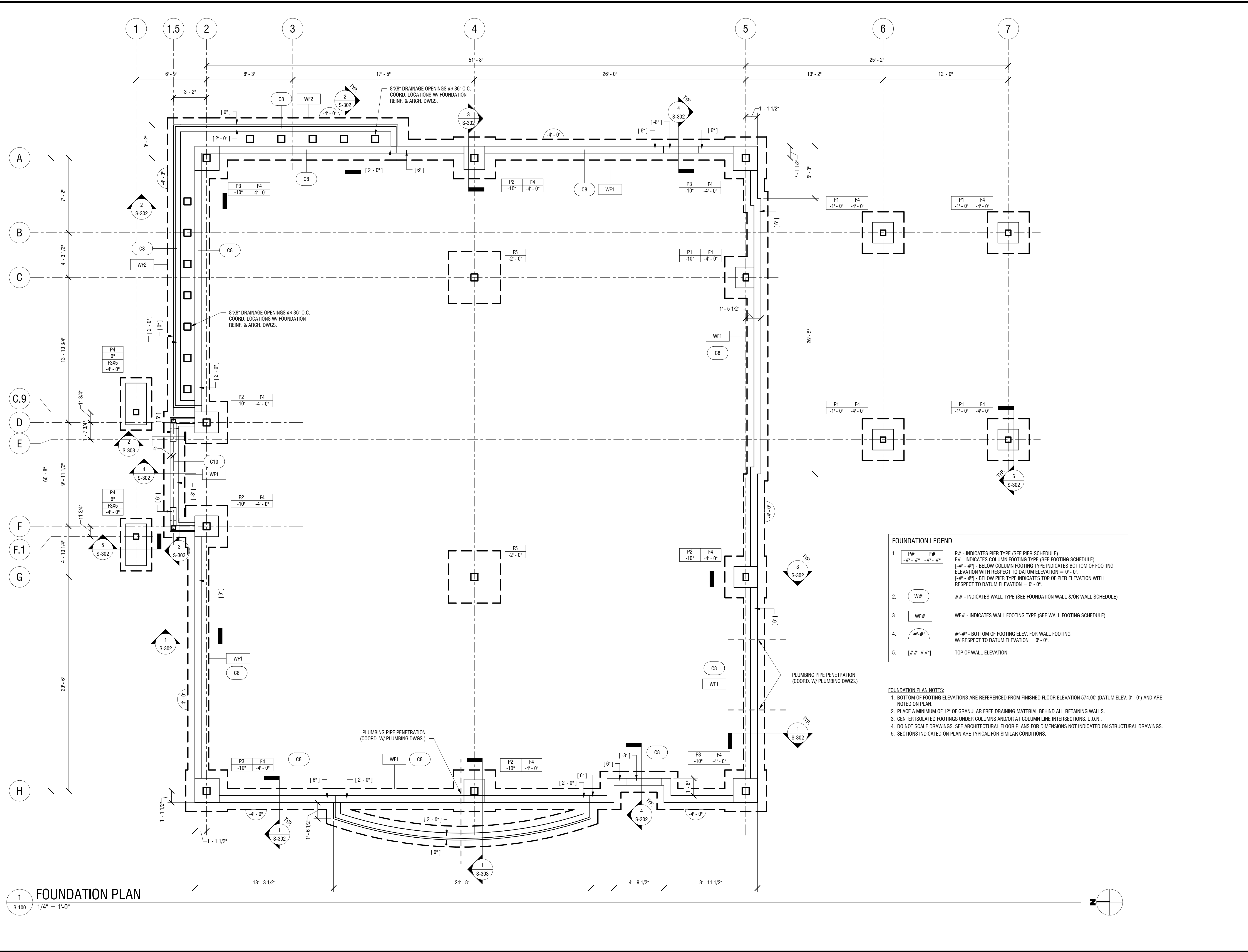
DATE: **JANUARY 2019**

DRAWING NAME:

**FOUNDATION PLAN**

DRAWING NUMBER:

**S-100**



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

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PROJECT NUMBER: **2181539**

DRAWN BY: **KRM**

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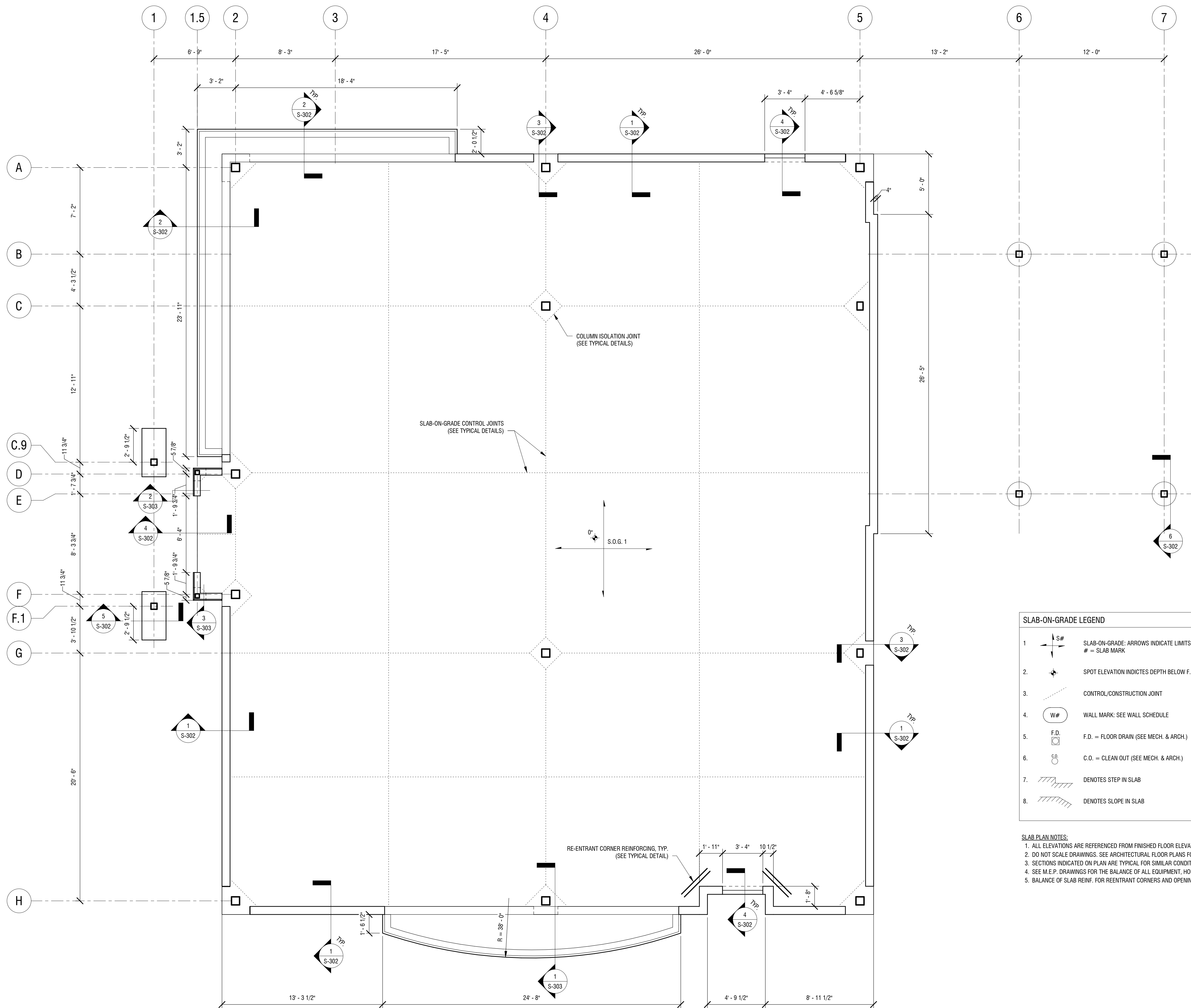
DATE: **JANUARY 2019**

DRAWING NAME:

**FIRST FLOOR PLAN**

DRAWING NUMBER:

**S-101**



**SLAB-ON-GRADE LEGEND**

- 1. S# SLAB-ON-GRADE: ARROWS INDICATE LIMITS  
# = SLAB MARK
- 2. SPOT ELEVATION INDICATES DEPTH BELOW F.F.E. (DATUM ELEVATION 0'-0")
- 3. CONTROL/CONSTRUCTION JOINT
- 4. WALL MARK: SEE WALL SCHEDULE
- 5. F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)
- 6. C.O. = CLEAN OUT (SEE MECH. & ARCH.)
- 7. DENOTES STEP IN SLAB
- 8. DENOTES SLOPE IN SLAB

**SLAB PLAN NOTES:**

- ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION 574.00' (DATUM ELEV. 0' - 0') AND ARE NOTED ON PLAN. U.N.O.
- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
- SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
- SEE M.E.P. DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, HOUSEKEEPING PADS, FLOOR PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
- BALANCE OF SLAB REINF. FOR REENTRANT CORNERS AND OPENINGS NOT SHOWN FOR CLARITY. SEE TYPICAL DETAILS.

**1 FIRST FLOOR PLAN**  
S-101 1/4" = 1'-0"

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PROJECT NUMBER: **2181539**

DRAWN BY: **KRM**

REVIEWED BY: **MCW**

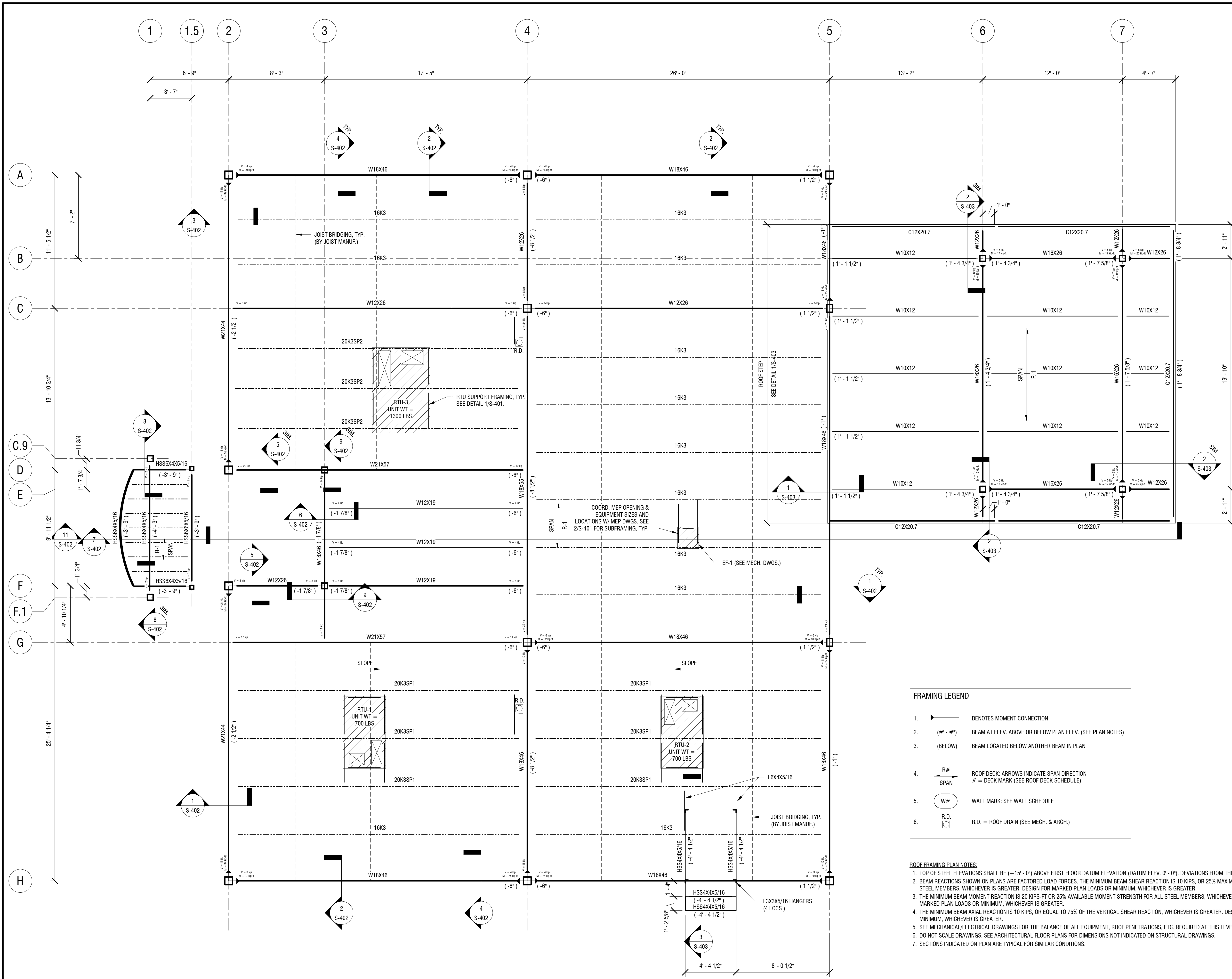
ISSUED FOR: **BID**

DATE: **JANUARY 2019**

DRAWING NAME:

**ROOF FRAMING PLAN**

DRAWING NUMBER:

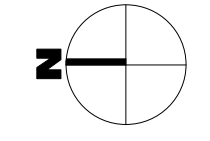


**FRAMING LEGEND**

- DENOTES MOMENT CONNECTION
- BEAM AT ELEV. ABOVE OR BELOW PLAN ELEV. (SEE PLAN NOTES)
- BEAM LOCATED BELOW ANOTHER BEAM IN PLAN
- ROOF DECK: ARROWS INDICATE SPAN DIRECTION  
# = DECK MARK (SEE ROOF DECK SCHEDULE)
- WALL MARK: SEE WALL SCHEDULE
- R.D. = ROOF DRAIN (SEE MECH. & ARCH.)

- ROOF FRAMING PLAN NOTES:**
- TOP OF STEEL ELEVATIONS SHALL BE (+15'-0") ABOVE FIRST FLOOR DATUM ELEVATION (DATUM ELEV. 0'-0"). DEVIATIONS FROM THIS ELEVATION ARE NOTED ON PLAN.
  - BEAM REACTIONS SHOWN ON PLANS ARE FACTORED LOAD FORCES. THE MINIMUM BEAM SHEAR REACTION IS 10 KIPS, OR 25% MAXIMUM TOTAL UNIFORM LOAD FOR ALL STEEL MEMBERS, WHICHEVER IS GREATER. DESIGN FOR MARKED PLAN LOADS OR MINIMUM, WHICHEVER IS GREATER.
  - THE MINIMUM BEAM MOMENT REACTION IS 20 KIPS-FT OR 25% AVAILABLE MOMENT STRENGTH FOR ALL STEEL MEMBERS, WHICHEVER IS GREATER. DESIGN FOR MARKED PLAN LOADS OR MINIMUM, WHICHEVER IS GREATER.
  - THE MINIMUM BEAM AXIAL REACTION IS 10 KIPS, OR EQUAL TO 75% OF THE VERTICAL SHEAR REACTION, WHICHEVER IS GREATER. DESIGN FOR MARKED PLAN LOADS OR MINIMUM, WHICHEVER IS GREATER.
  - SEE MECHANICAL/ELECTRICAL DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, ROOF PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
  - DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
  - SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.

**1 LOW ROOF FRAMING PLAN**  
S-102 1/4" = 1'-0"



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**S-102**

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

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Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **KRM**

REVIEWED BY: **MCW**

ISSUED FOR: **BID**

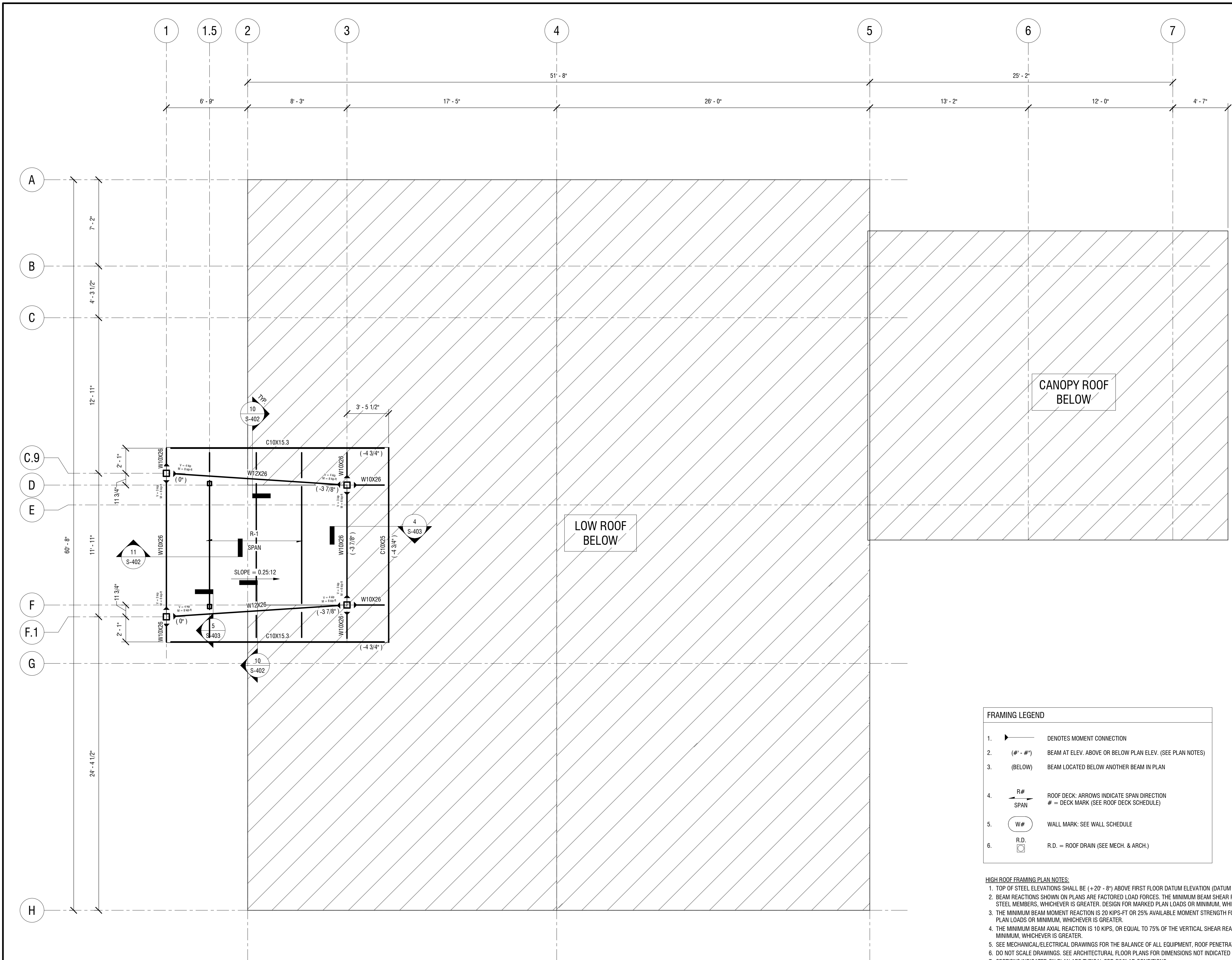
DATE: **JANUARY 2019**

DRAWING NAME:

**HIGH ROOF FRAMING PLAN**

DRAWING NUMBER:

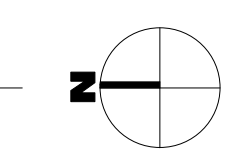
**S-103**



FRAMING LEGEND	
1.	DENOTES MOMENT CONNECTION
2. (#' - #')	BEAM AT ELEV. ABOVE OR BELOW PLAN ELEV. (SEE PLAN NOTES)
3. (BELOW)	BEAM LOCATED BELOW ANOTHER BEAM IN PLAN
4.	ROOF DECK: ARROWS INDICATE SPAN DIRECTION # = DECK MARK (SEE ROOF DECK SCHEDULE)
5.	WALL MARK: SEE WALL SCHEDULE
6.	R.D. = ROOF DRAIN (SEE MECH. & ARCH.)

- HIGH ROOF FRAMING PLAN NOTES:**
- TOP OF STEEL ELEVATIONS SHALL BE (+20' - 8") ABOVE FIRST FLOOR DATUM ELEVATION (DATUM ELEV. 0' - 0"). DEVIATIONS FROM THIS ELEVATION ARE NOTED ON PLAN.
  - BEAM REACTIONS SHOWN ON PLANS ARE FACTORED LOAD FORCES. THE MINIMUM BEAM SHEAR REACTION IS 10 KIPS, OR 25% MAXIMUM TOTAL UNIFORM LOAD FOR ALL STEEL MEMBERS, WHICHEVER IS GREATER. DESIGN FOR MARKED PLAN LOADS OR MINIMUM, WHICHEVER IS GREATER.
  - THE MINIMUM BEAM MOMENT REACTION IS 20 KIPS-FT OR 25% AVAILABLE MOMENT STRENGTH FOR ALL STEEL MEMBERS, WHICHEVER IS GREATER. DESIGN FOR MARKED PLAN LOADS OR MINIMUM, WHICHEVER IS GREATER.
  - THE MINIMUM BEAM AXIAL REACTION IS 10 KIPS, OR EQUAL TO 75% OF THE VERTICAL SHEAR REACTION, WHICHEVER IS GREATER. DESIGN FOR MARKED PLAN LOADS OR MINIMUM, WHICHEVER IS GREATER.
  - SEE MECHANICAL/ELECTRICAL DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, ROOF PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
  - DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
  - SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.

**1 HIGH ROOF FRAMING PLAN**  
S-103 1/4" = 1'-0"



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2181539

DRAWN BY: MCW

REVIEWED BY: Approver

ISSUED FOR: BID

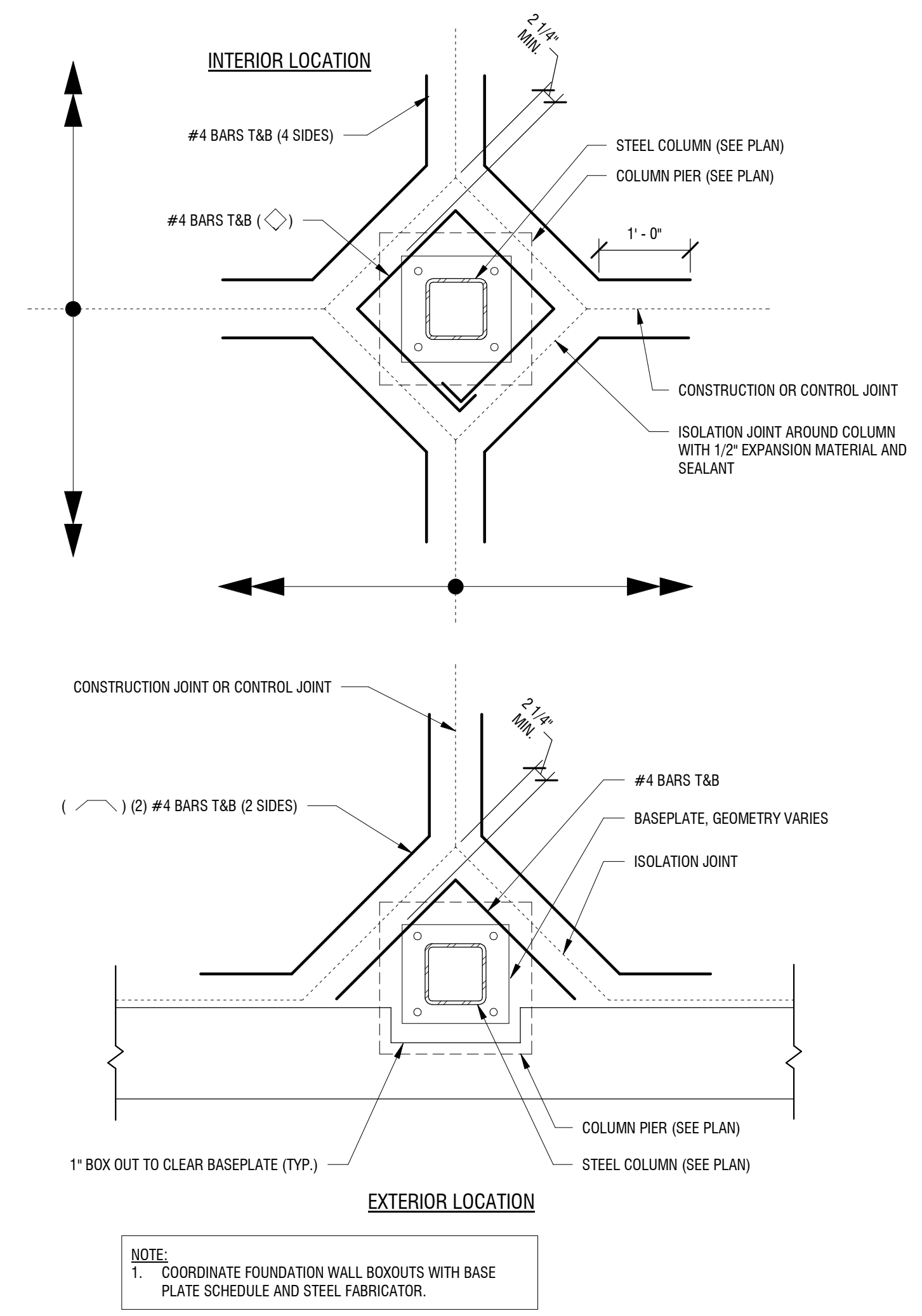
DATE: JANUARY 2019

DRAWING NAME:

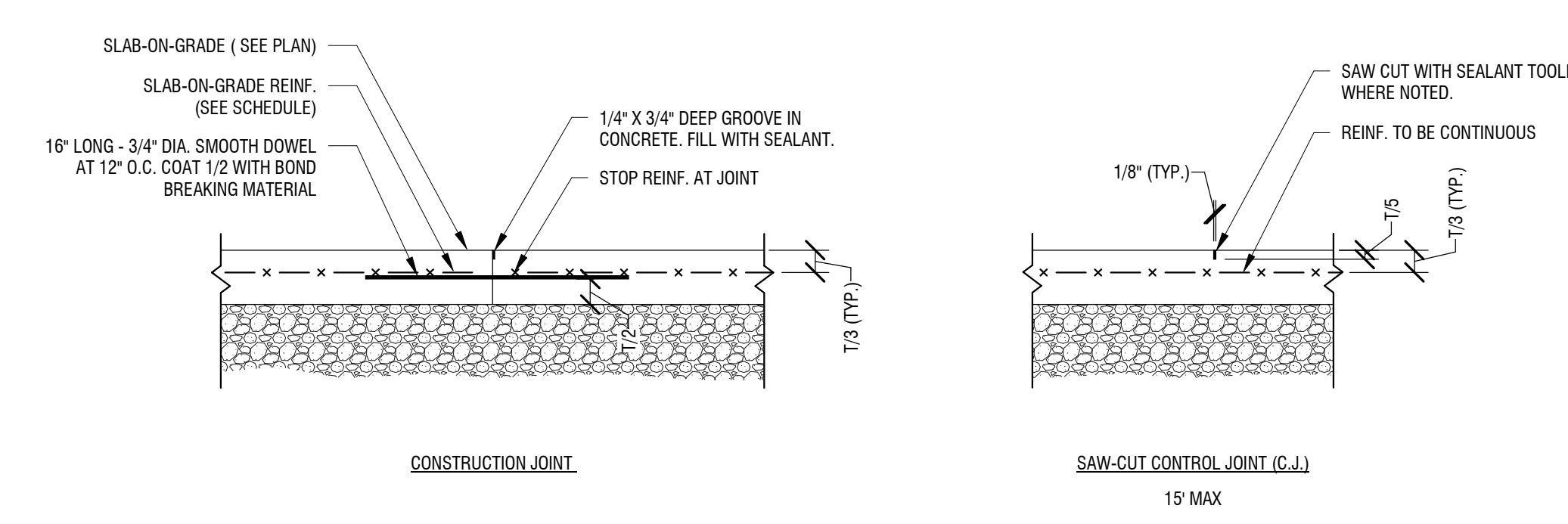
**TYPICAL SLAB-ON-GRADE & FOUNDATION DETAILS (1 OF 2)**

DRAWING NUMBER:

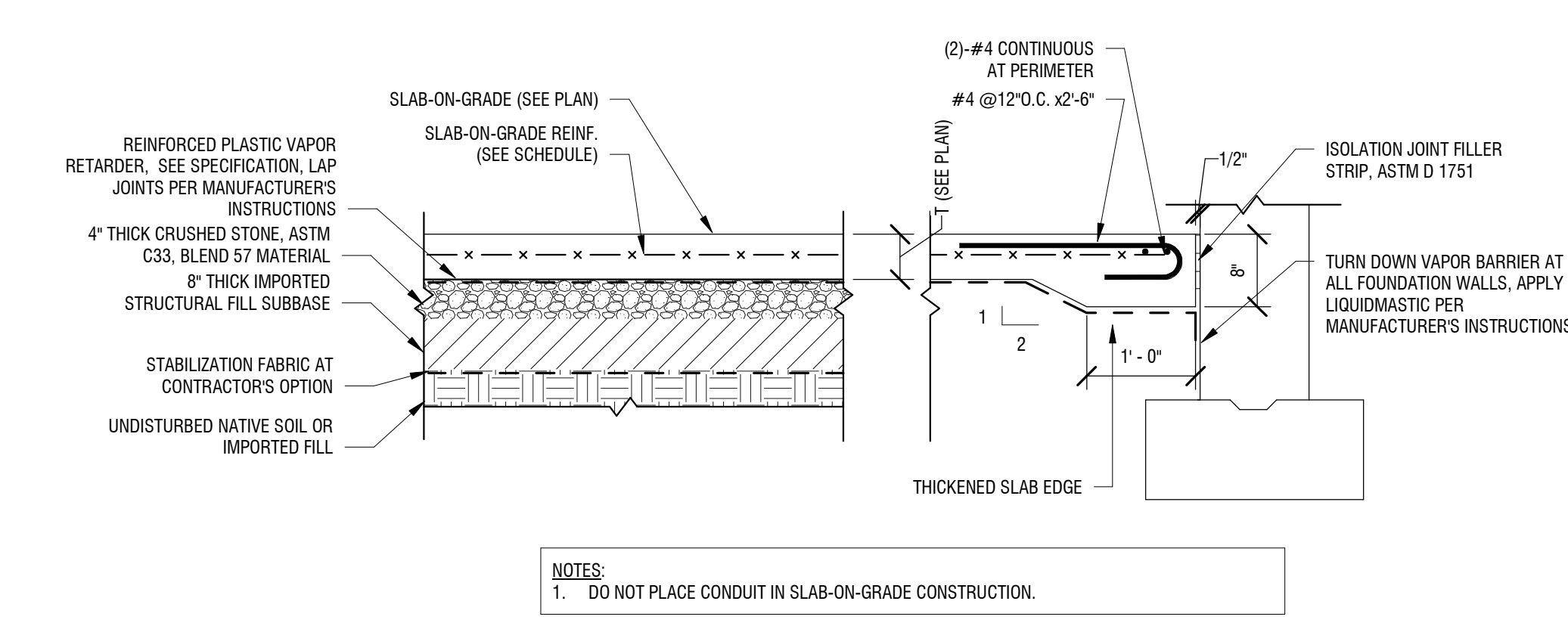
**S-300**



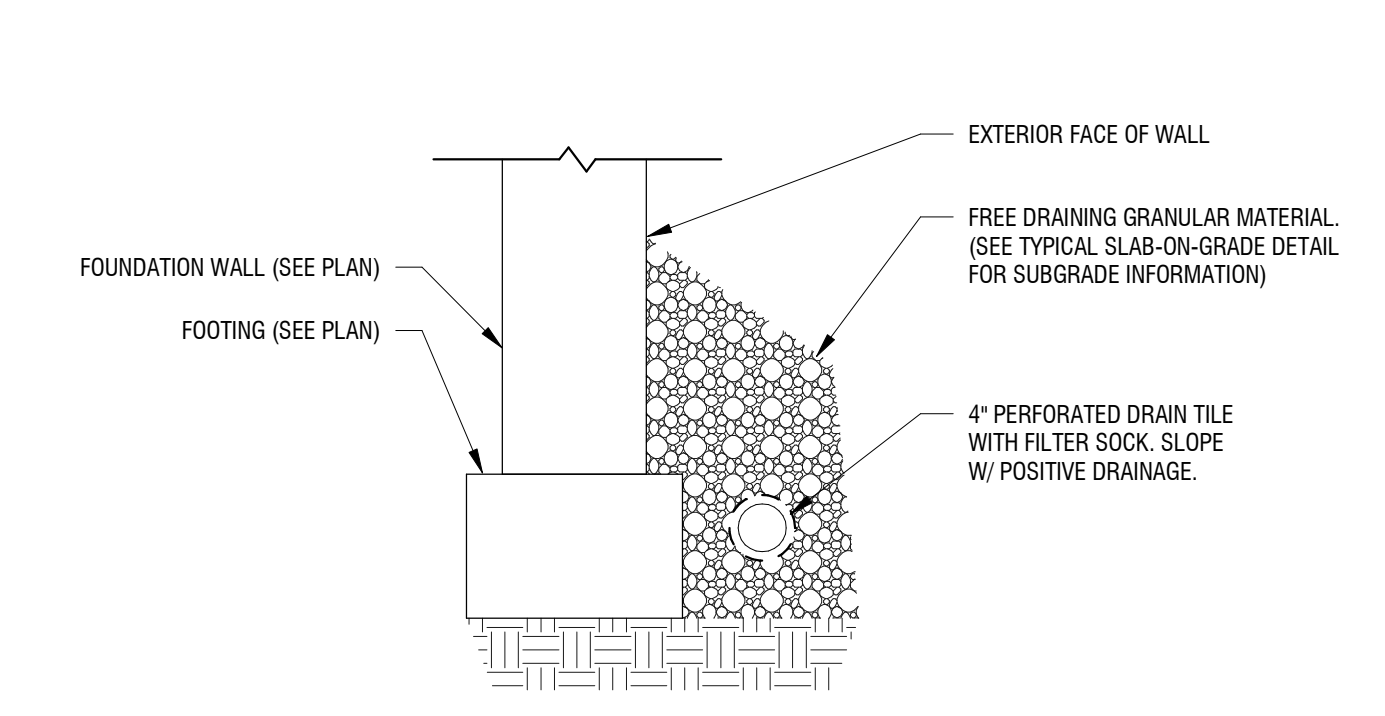
**3 TYPICAL COLUMN ISOLATION JOINT**  
S-300 3/4" = 1'-0"



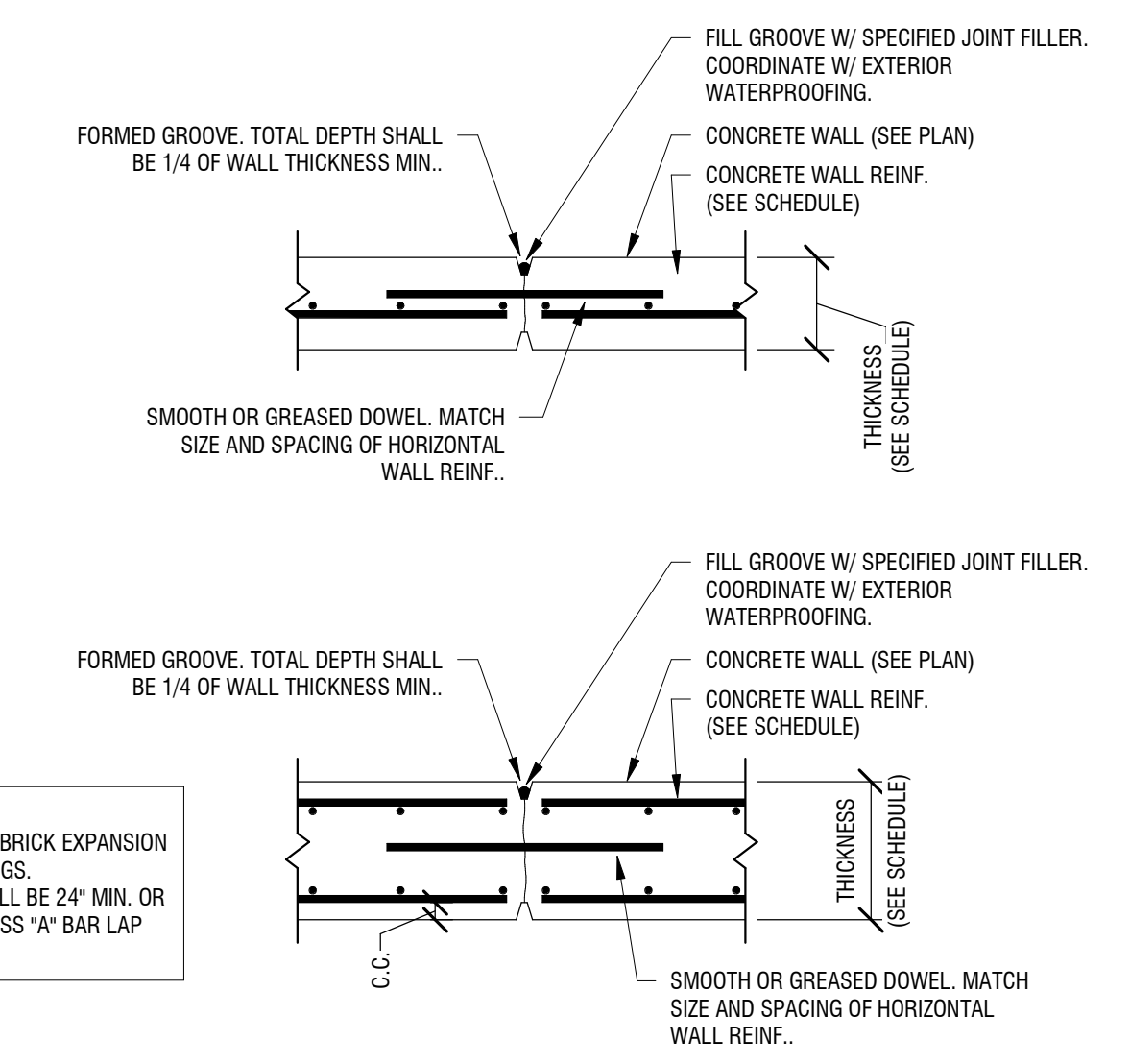
**2 TYPICAL SLAB-ON-GRADE JOINT**  
S-300 3/4" = 1'-0"



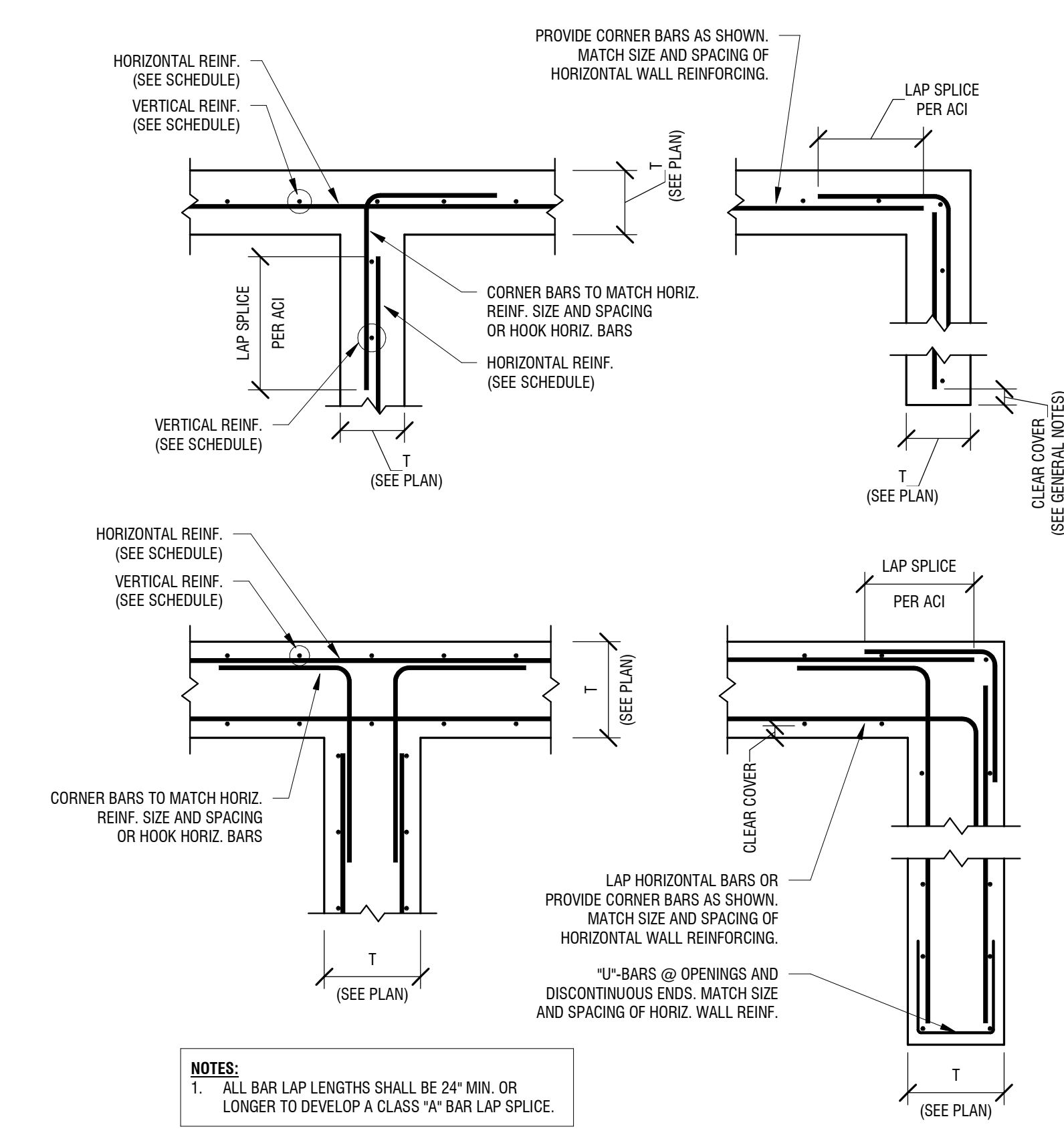
**1 TYPICAL SLAB-ON-GRADE WITH VAPOR BARRIER**  
S-300 3/4" = 1'-0"



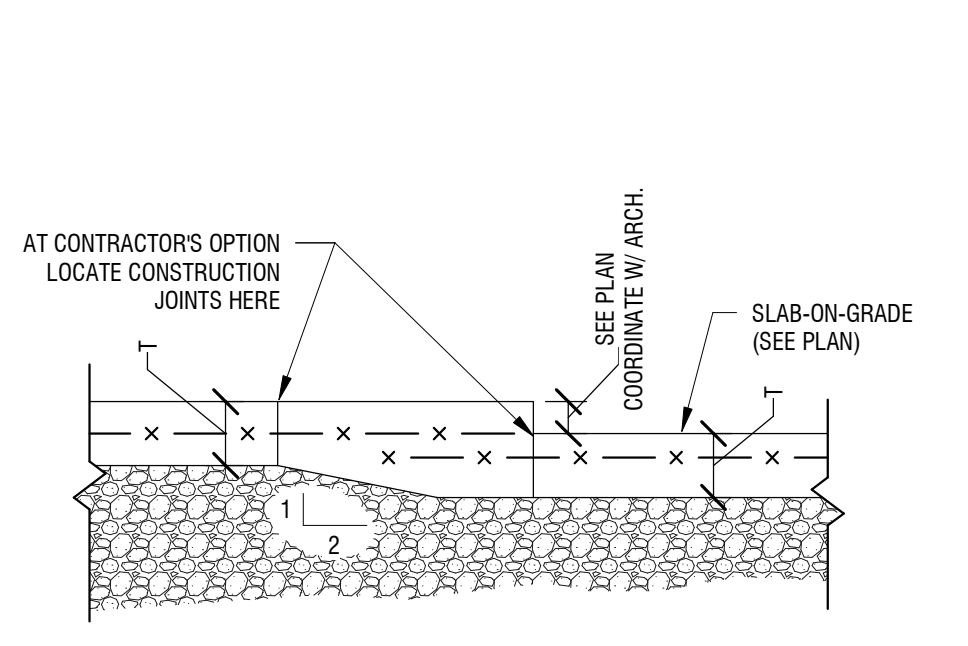
**6 TYPICAL FOUNDATION DRAIN**  
S-300 3/4" = 1'-0"



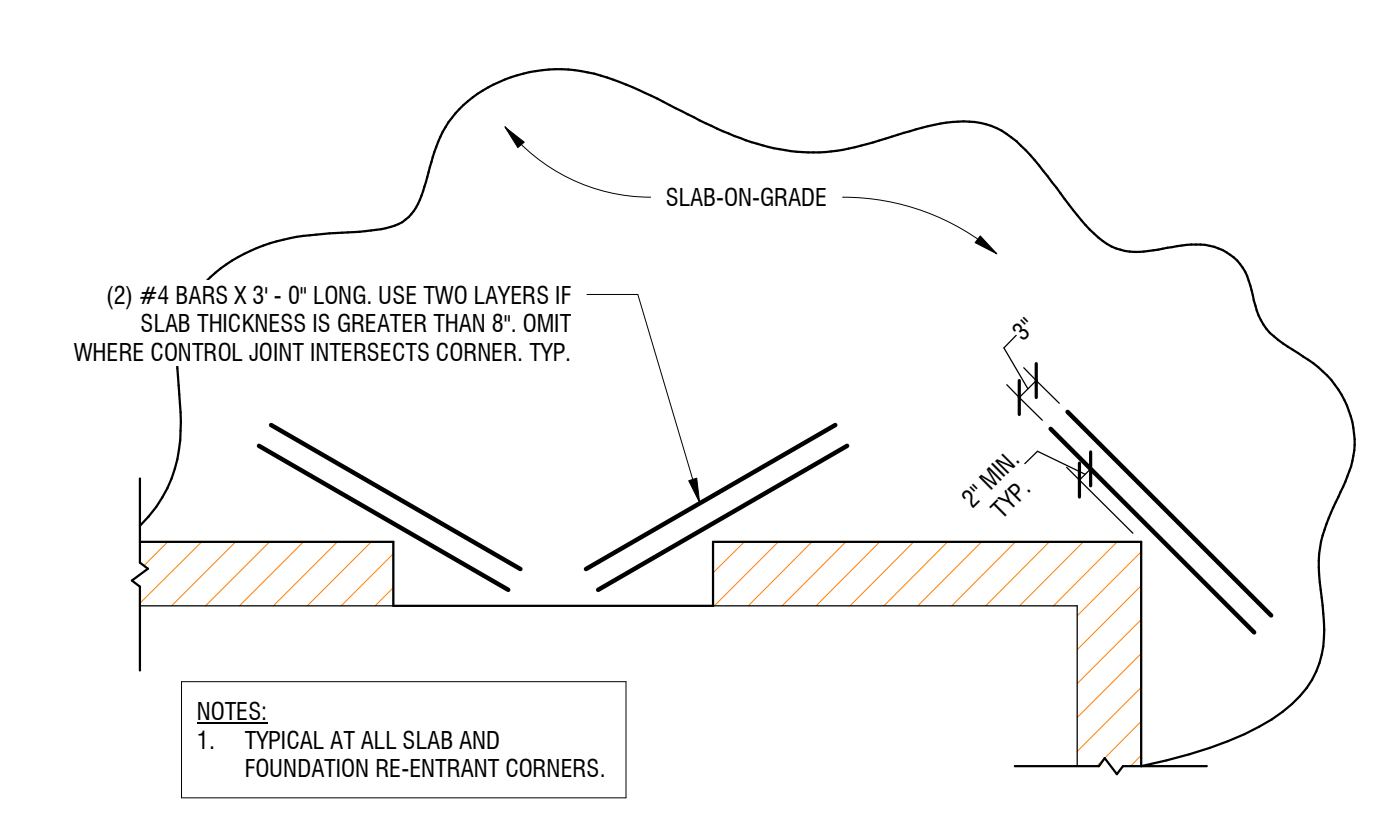
**5 TYPICAL CONCRETE WALL CONTROL JOINTS**  
S-300 3/4" = 1'-0"



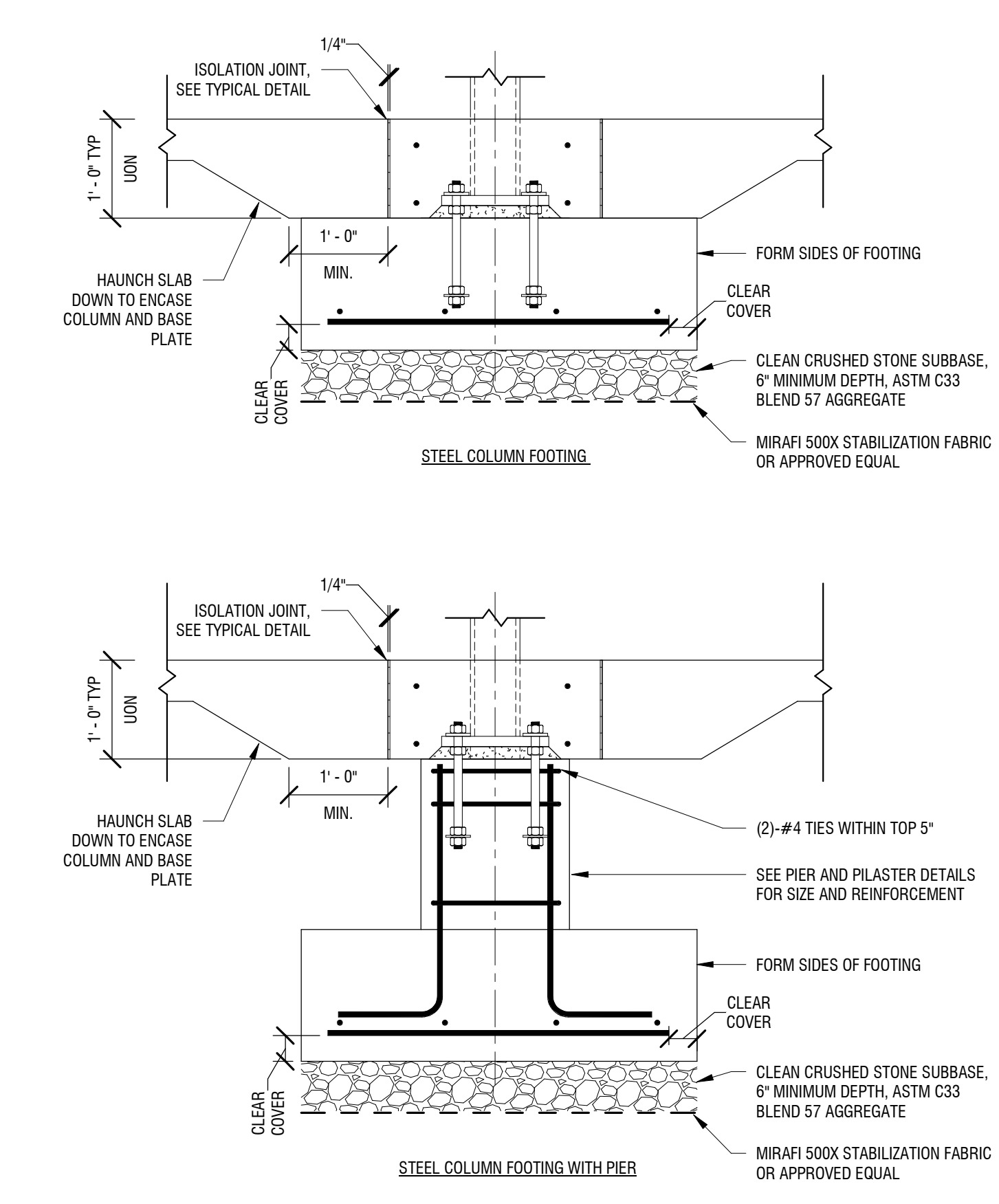
**4 TYPICAL CONCRETE WALL AT INTERSECTION**  
S-300 3/4" = 1'-0"



**9 TYPICAL RECESSED SLAB DETAIL**  
S-300 1" = 1'-0"



**8 TYPICAL SLAB-ON-GRADE RE-ENTRANT CORNER**  
S-300 1/2" = 1'-0"



**7 TYPICAL STEEL COLUMN AT FOOTING DETAIL**  
S-300 3/4" = 1'-0"

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**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **KRM**

REVIEWED BY: **MCW**

ISSUED FOR: **BID**

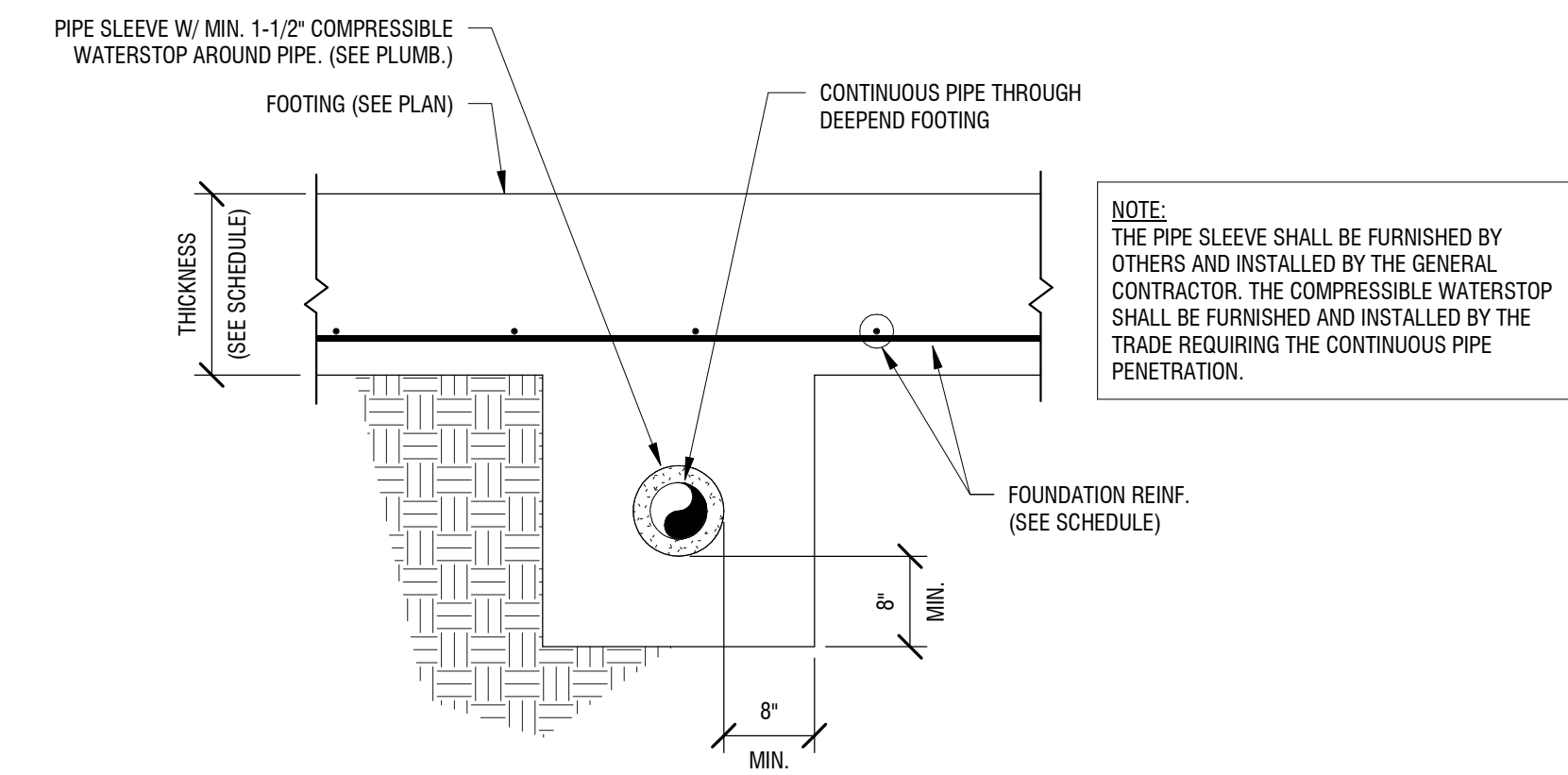
DATE: **JANUARY 2019**

DRAWING NAME:

**TYPICAL SLAB-ON-GRADE & FOUNDATION DETAILS (2 OF 2)**

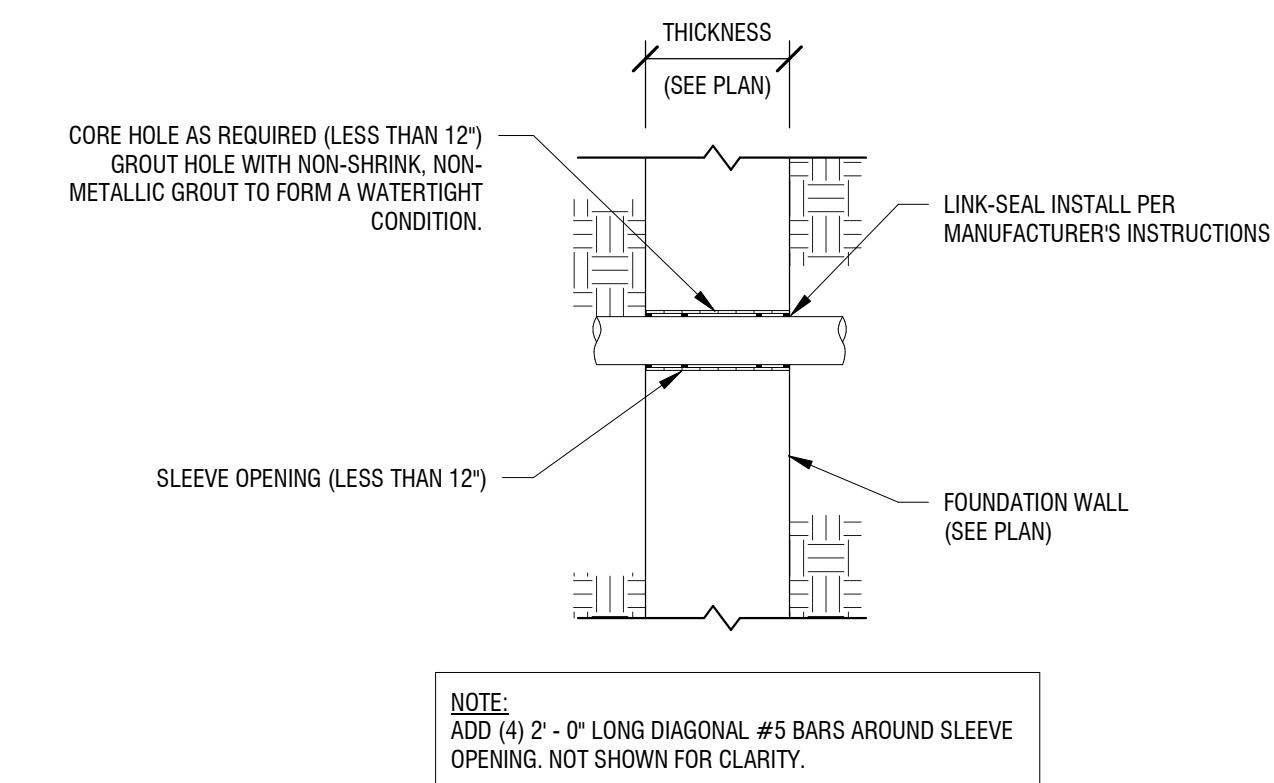
DRAWING NUMBER:

**S-301**



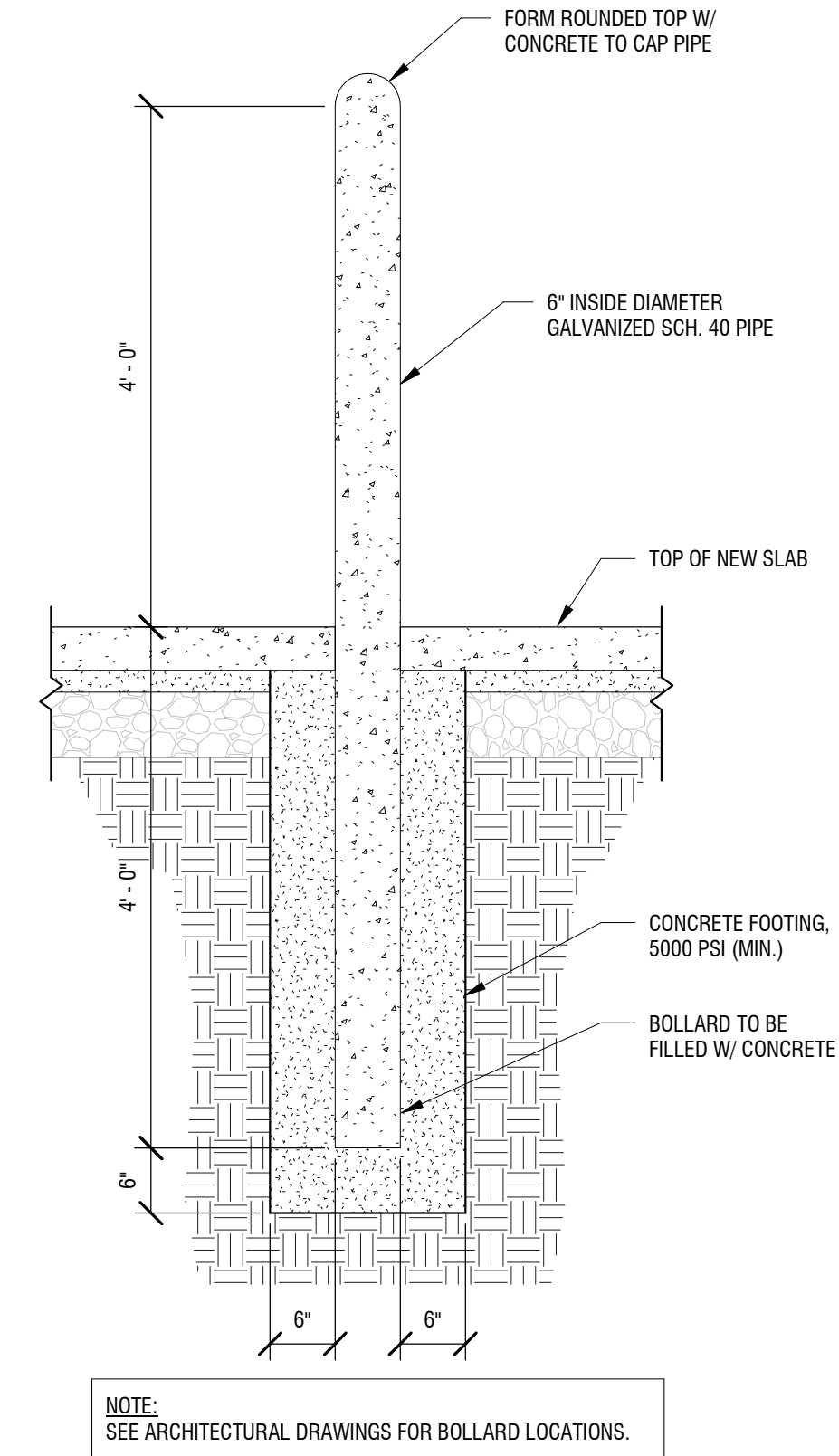
**3 TYPICAL DEEPEMED FOOTINGS AT PIPES**

S-301 3/4" = 1'-0"



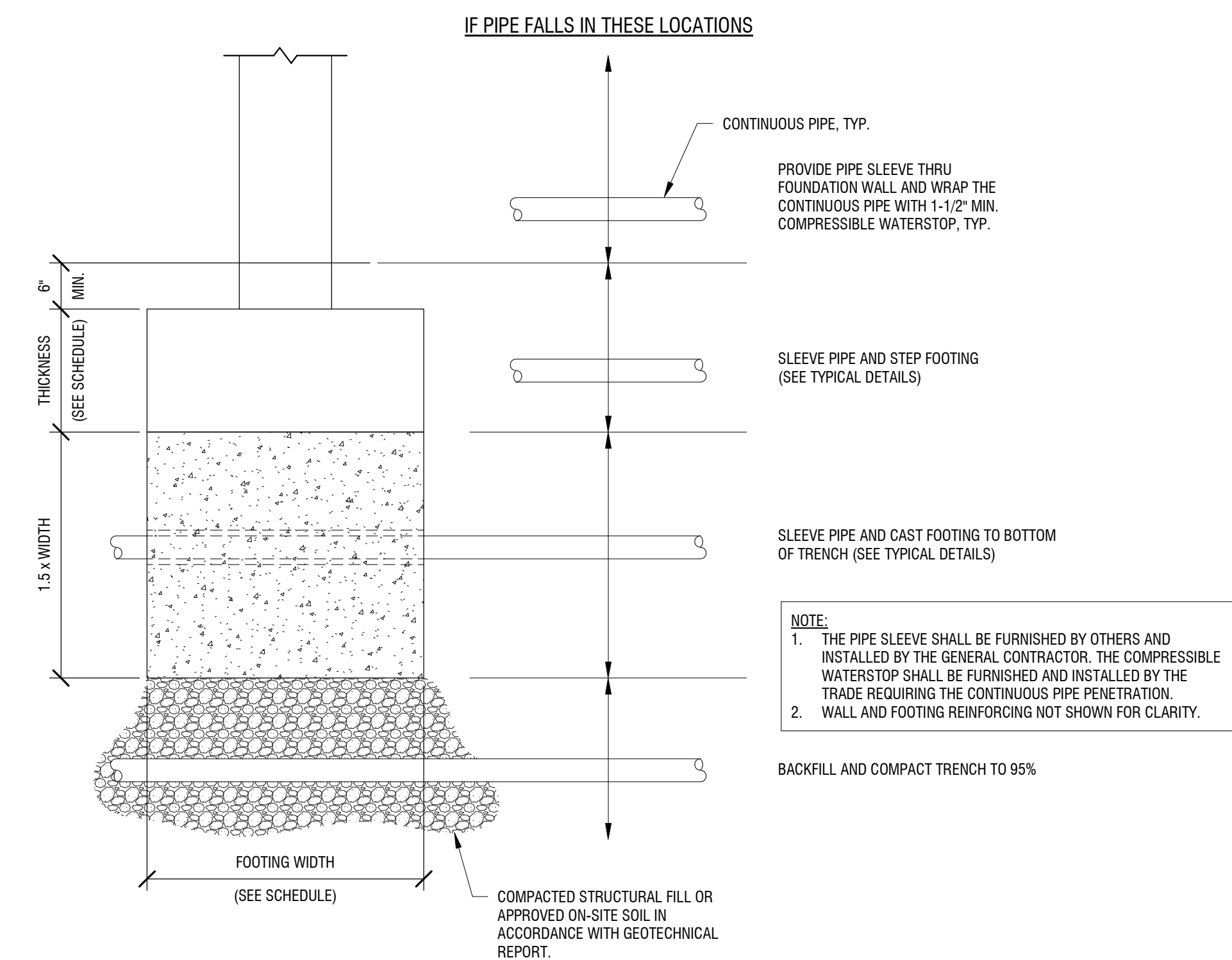
**2 TYPICAL PIPE SLEEVE THRU FOUNDATION WALL**

S-301 3/4" = 1'-0"



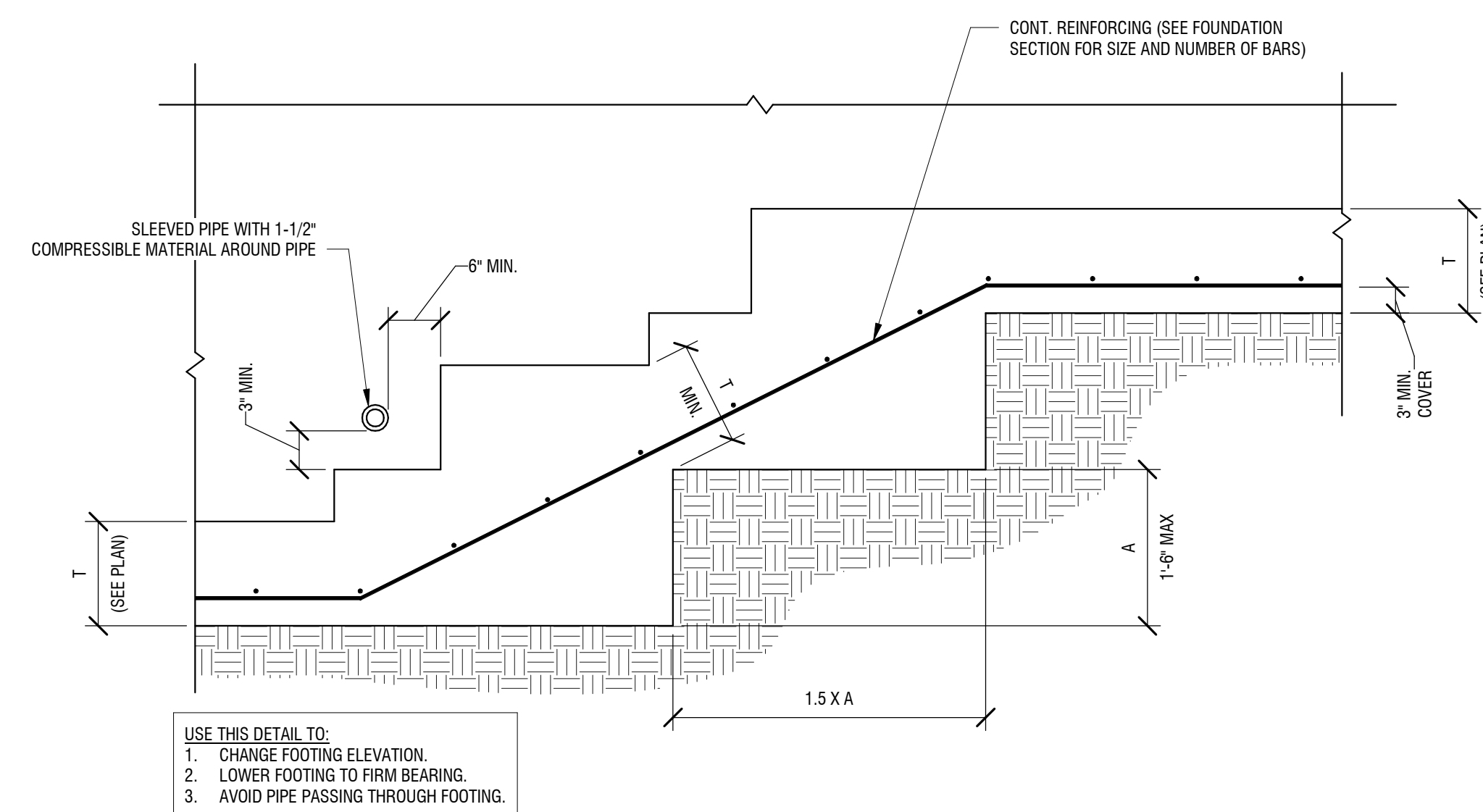
**5 TYPICAL BOLLARD DETAIL**

S-301 3/4" = 1'-0"



**1 TYPICAL PIPES AT FOUNDATION**

S-301 3/4" = 1'-0"



**4 TYPICAL STEPPED FOOTING**

S-301 3/4" = 1'-0"

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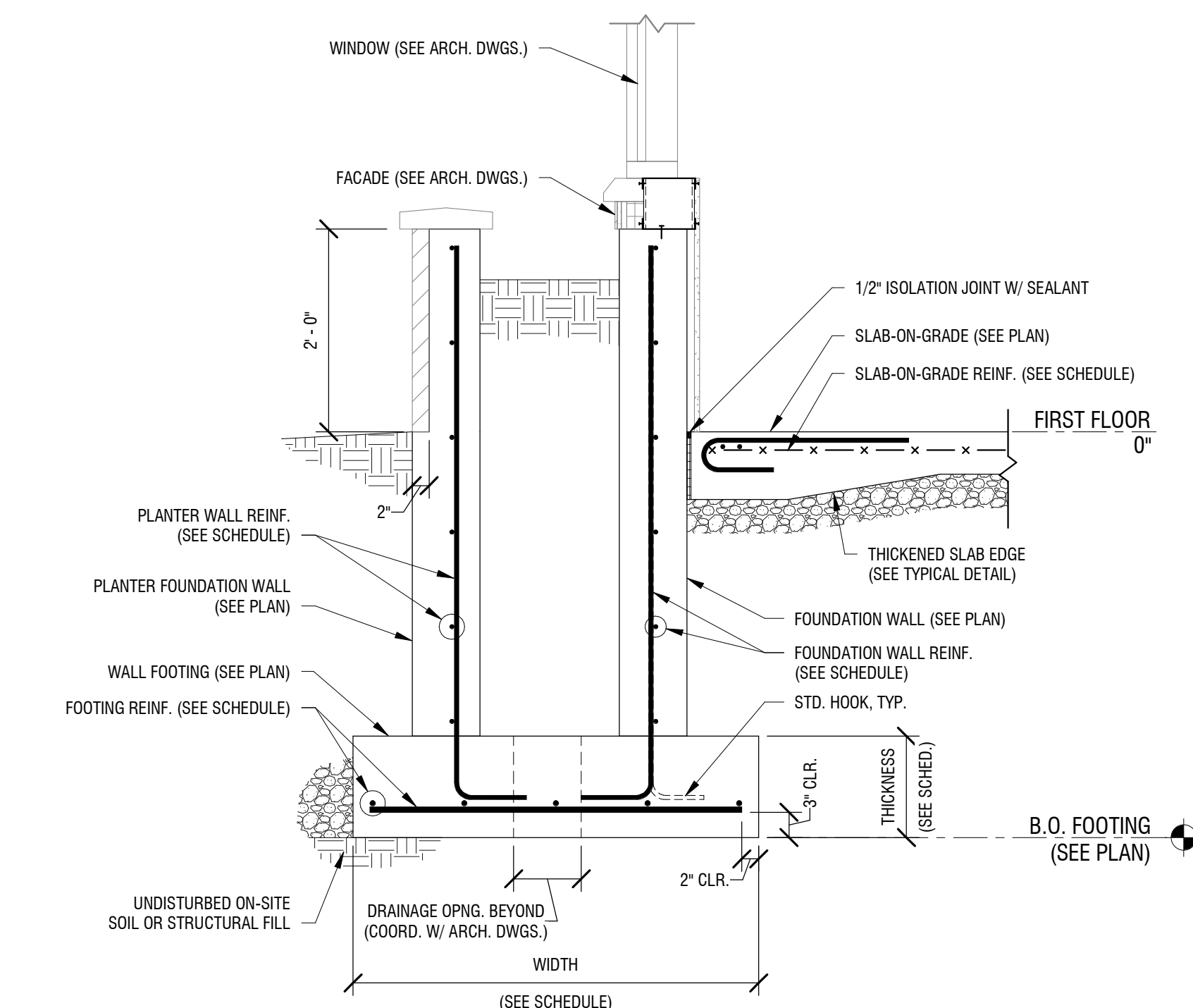
**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

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PROJECT NUMBER:		2181539
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DRAWING NAME:		

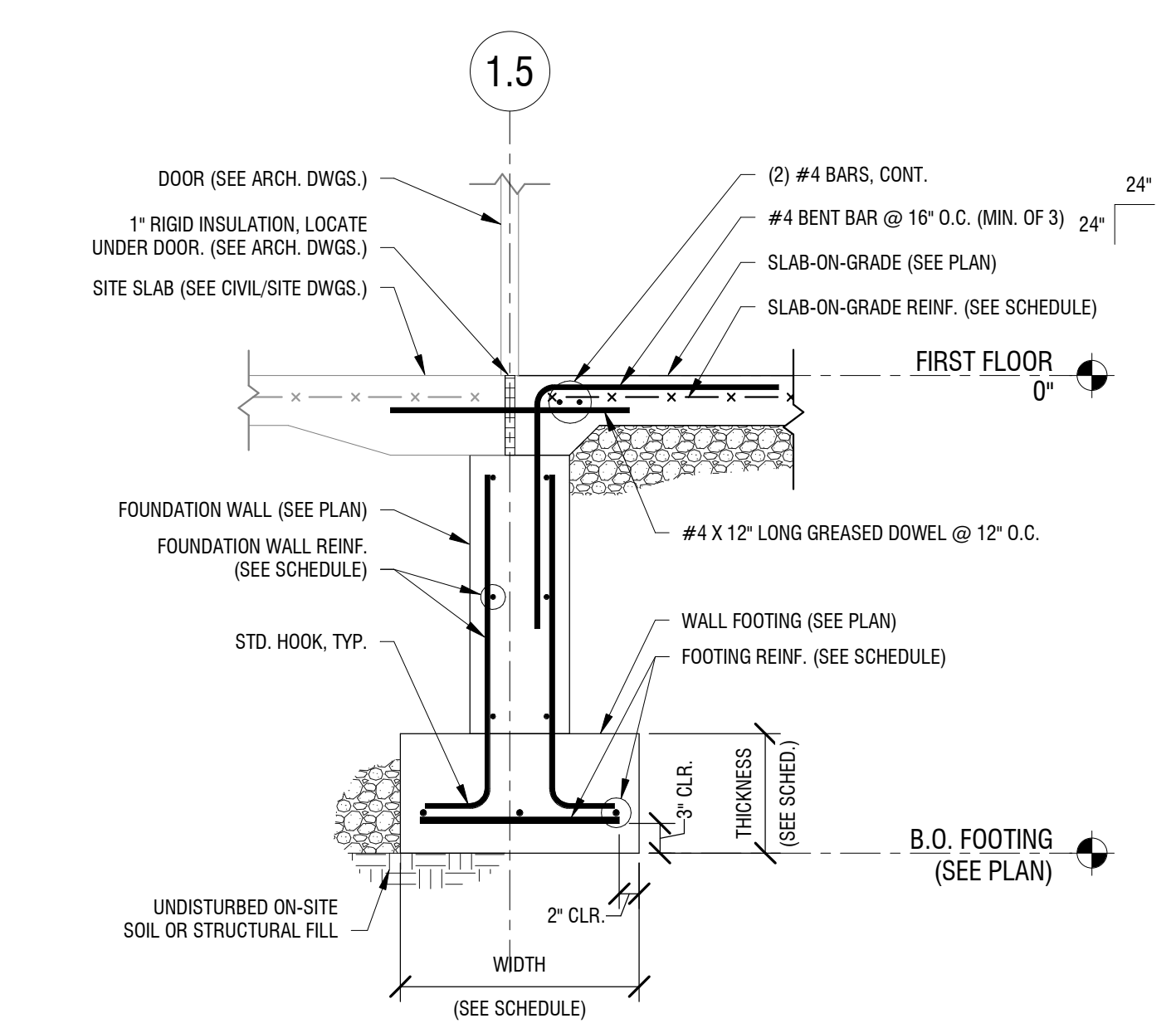
**FOUNDATION SECTIONS & DETAILS (1 OF 2)**

DRAWING NUMBER:

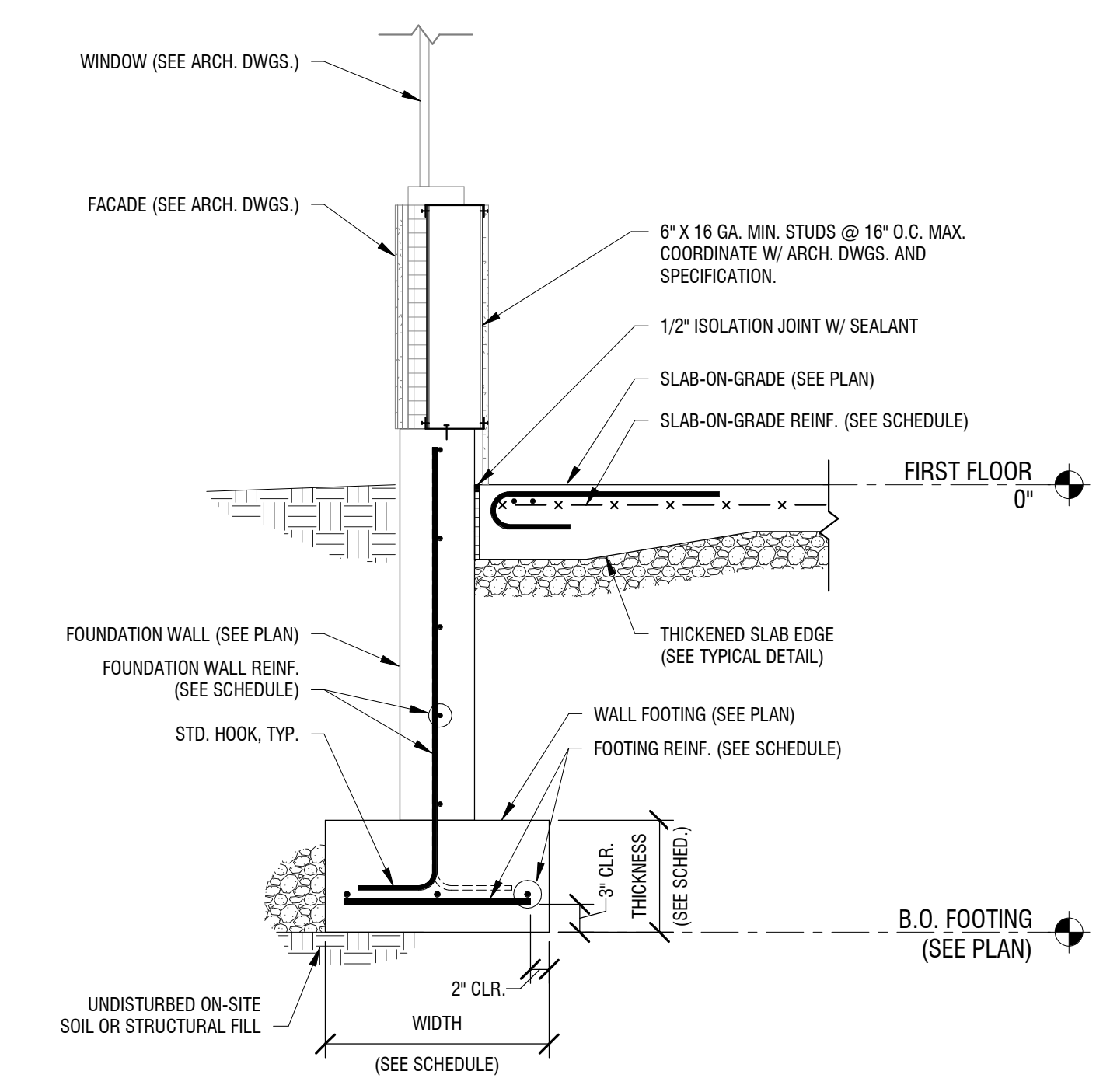
**S-302**



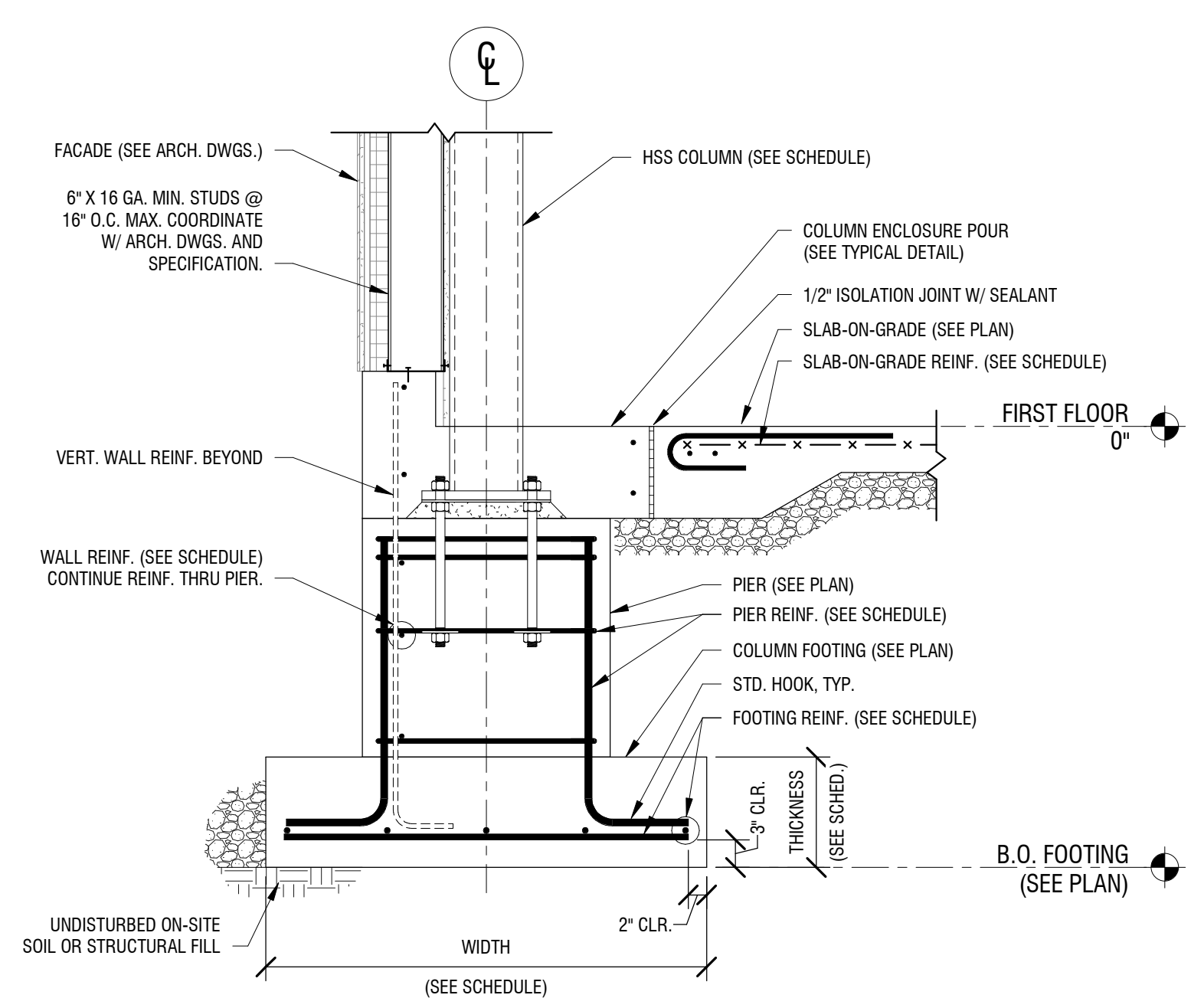
**2 SECTION AT EXTERIOR PLANTER WALL**  
S-302 3/4" = 1'-0"



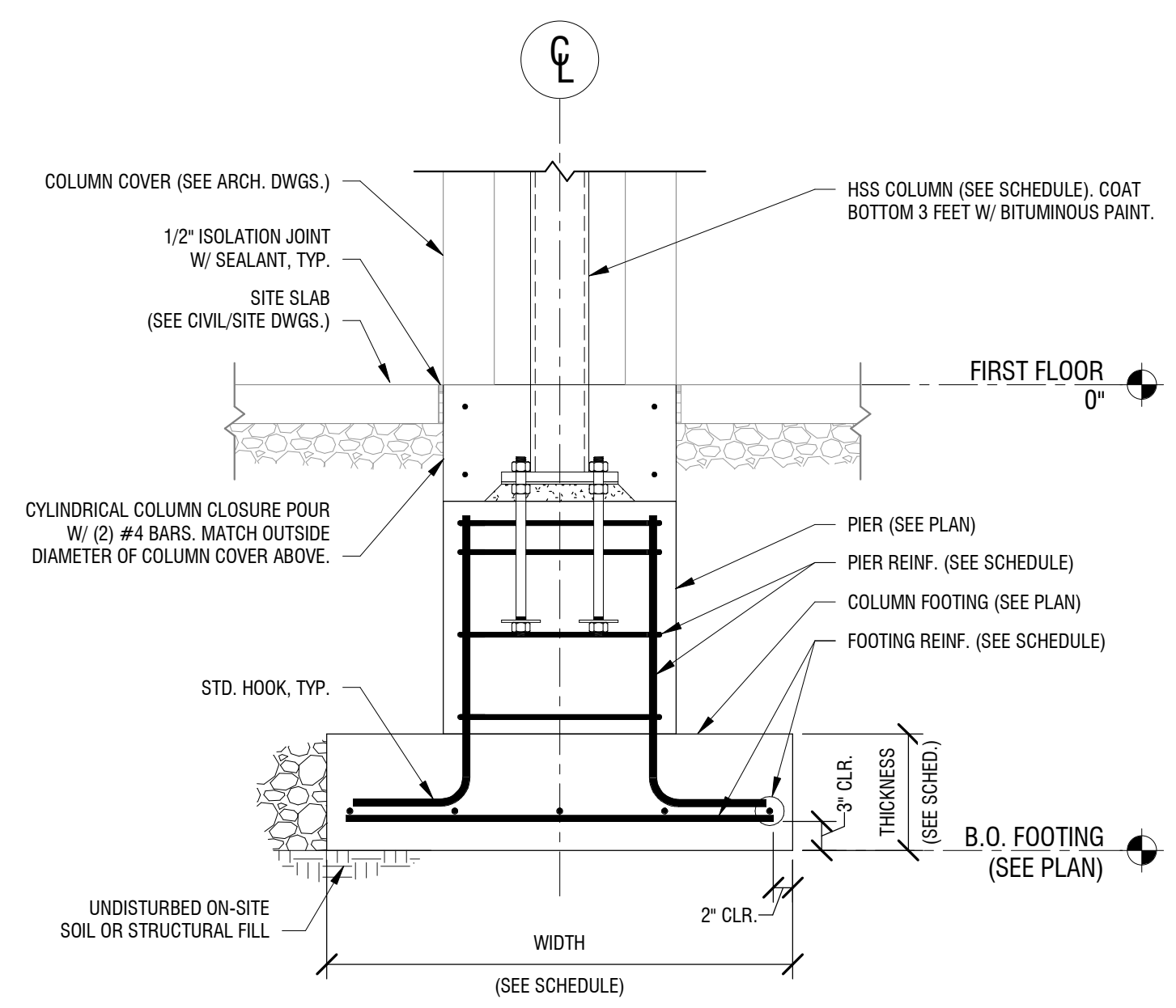
**4 TYPICAL SECTION AT EXTERIOR DOOR THRESHOLD**  
S-302 3/4" = 1'-0"



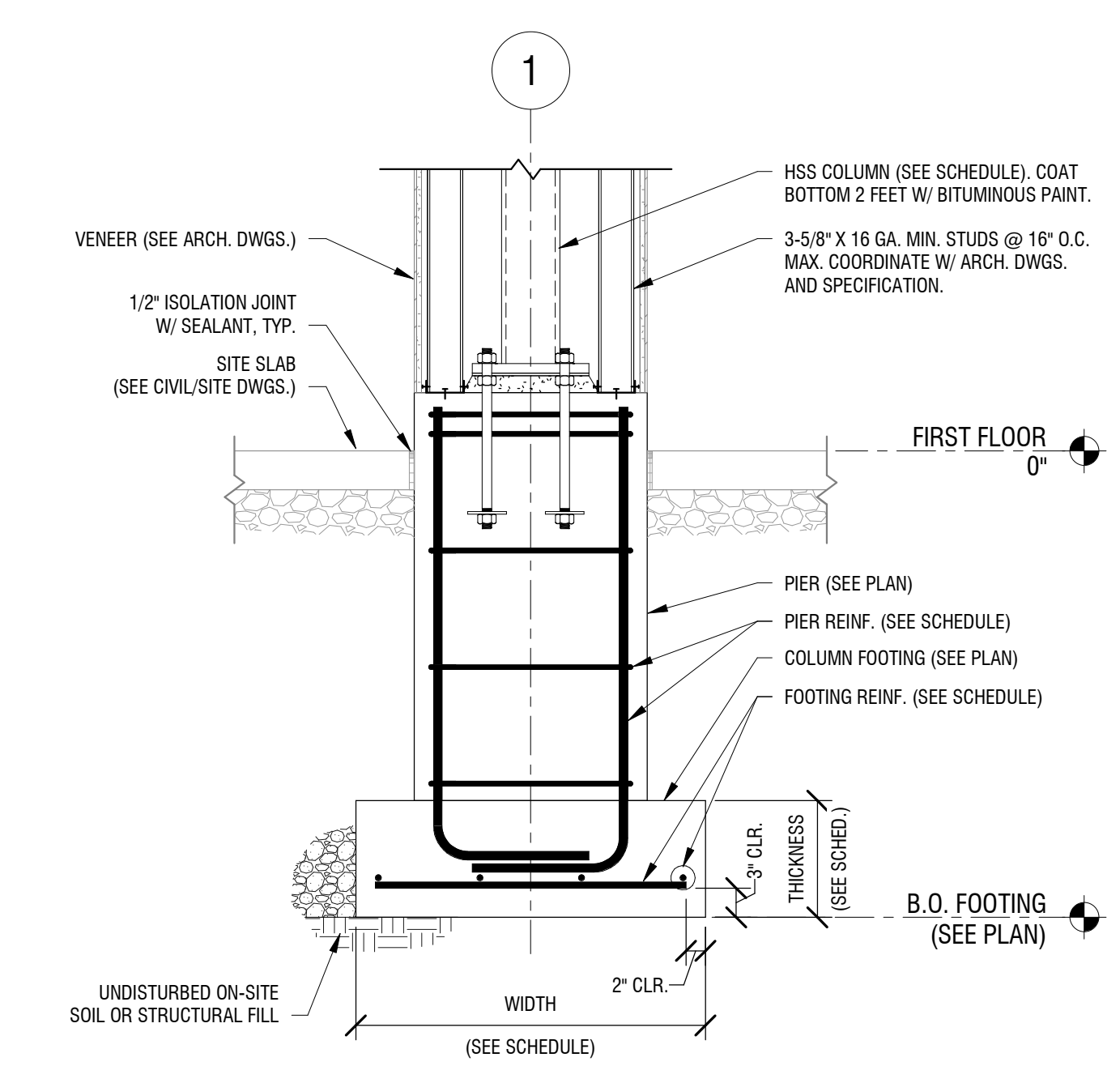
**1 SECTION AT EXTERIOR WALL**  
S-302 3/4" = 1'-0"



**3 SECTION AT PIER IN EXTERIOR WALL**  
S-302 3/4" = 1'-0"



**6 SECTION AT DRIVE-THRU COLUMN**  
S-302 3/4" = 1'-0"



**5 SECTION AT EXTERIOR COLUMN**  
S-302 3/4" = 1'-0"

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7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2181539

DRAWN BY: KRM

REVIEWED BY: MCW

ISSUED FOR: BID

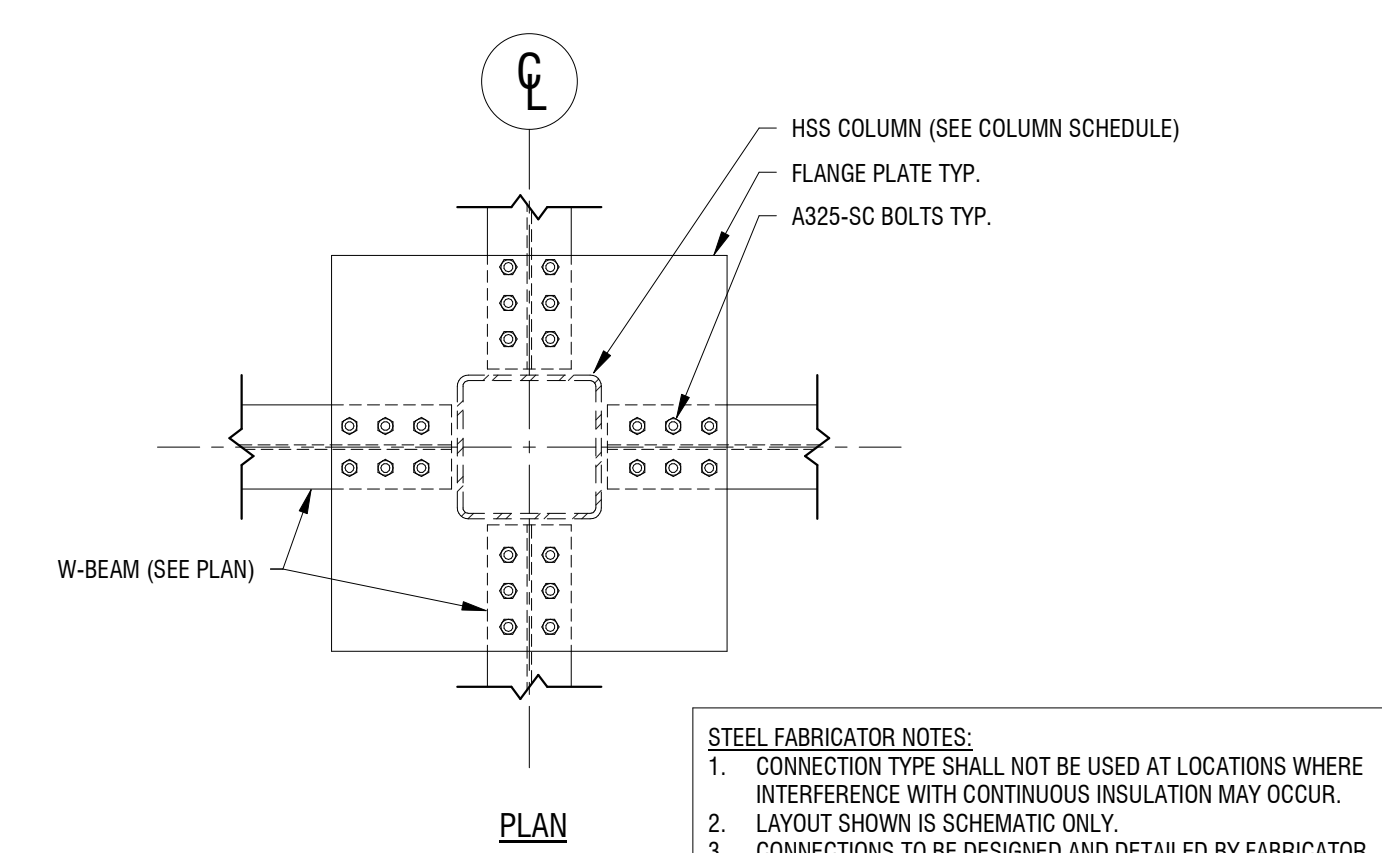
DATE: JANUARY 2019

DRAWING NAME:

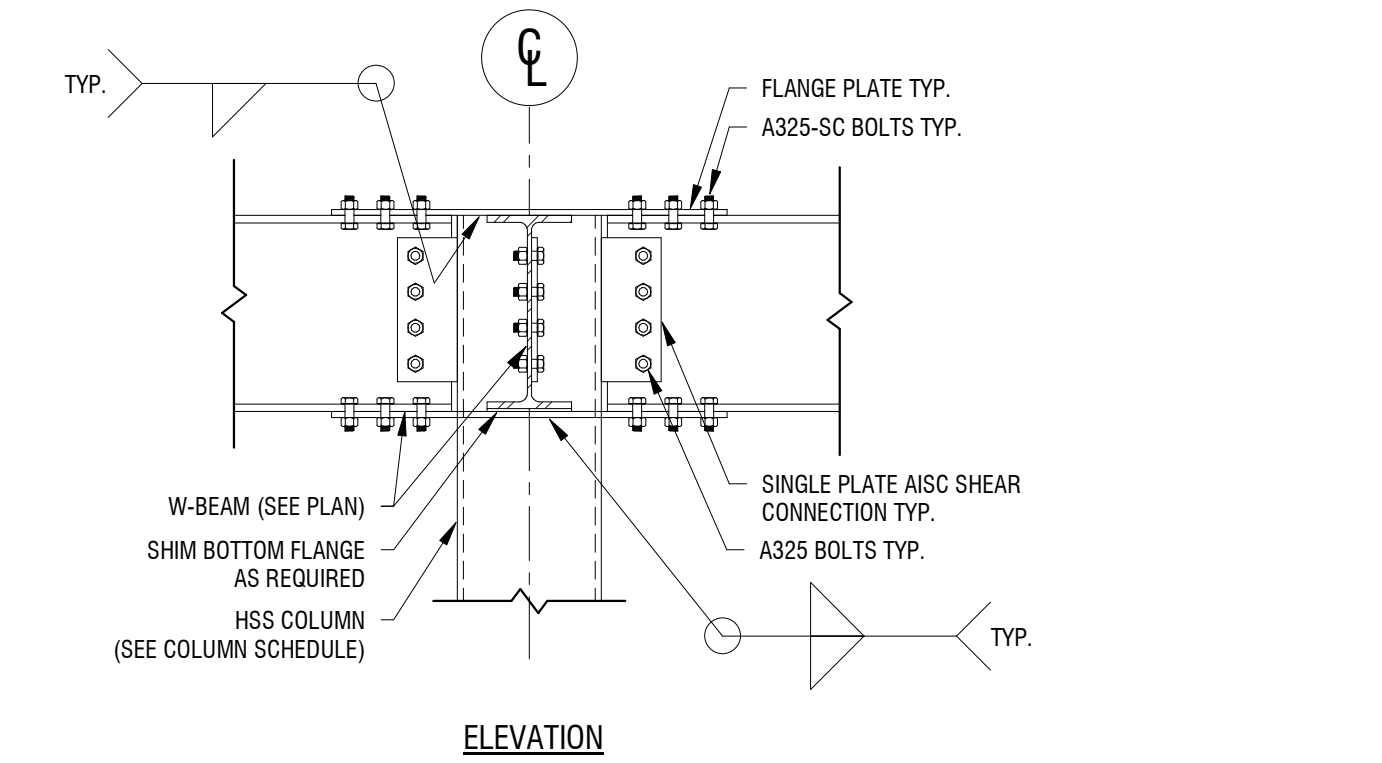
**TYPICAL STEEL DETAILS (1 OF 2)**

DRAWING NUMBER:

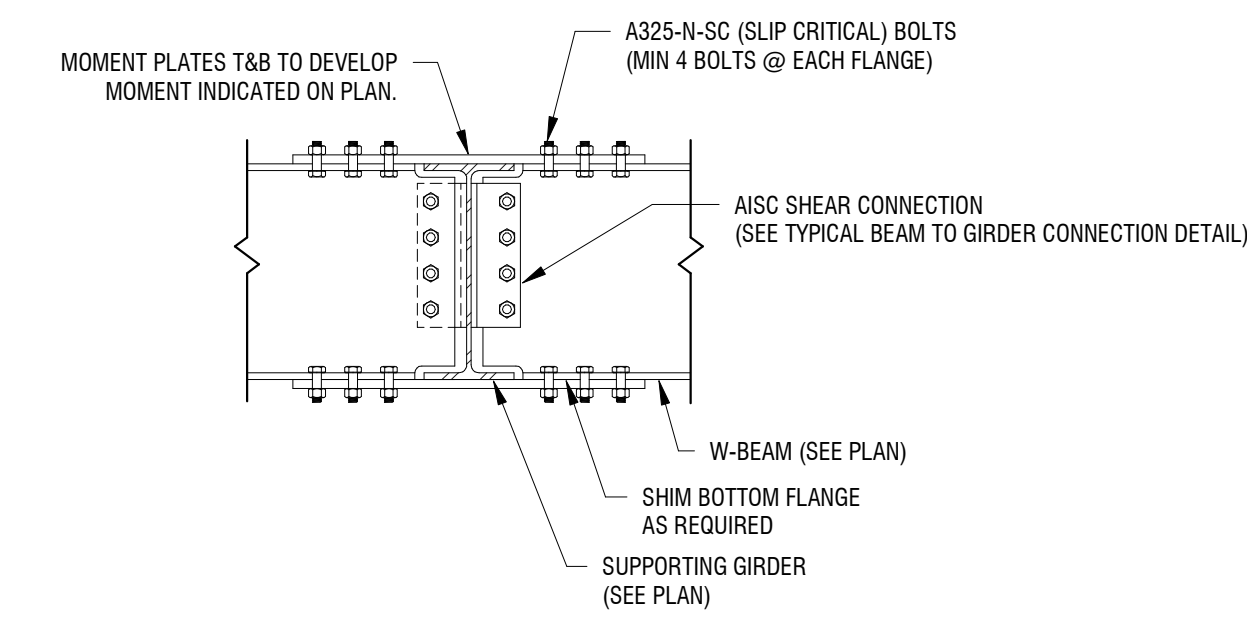
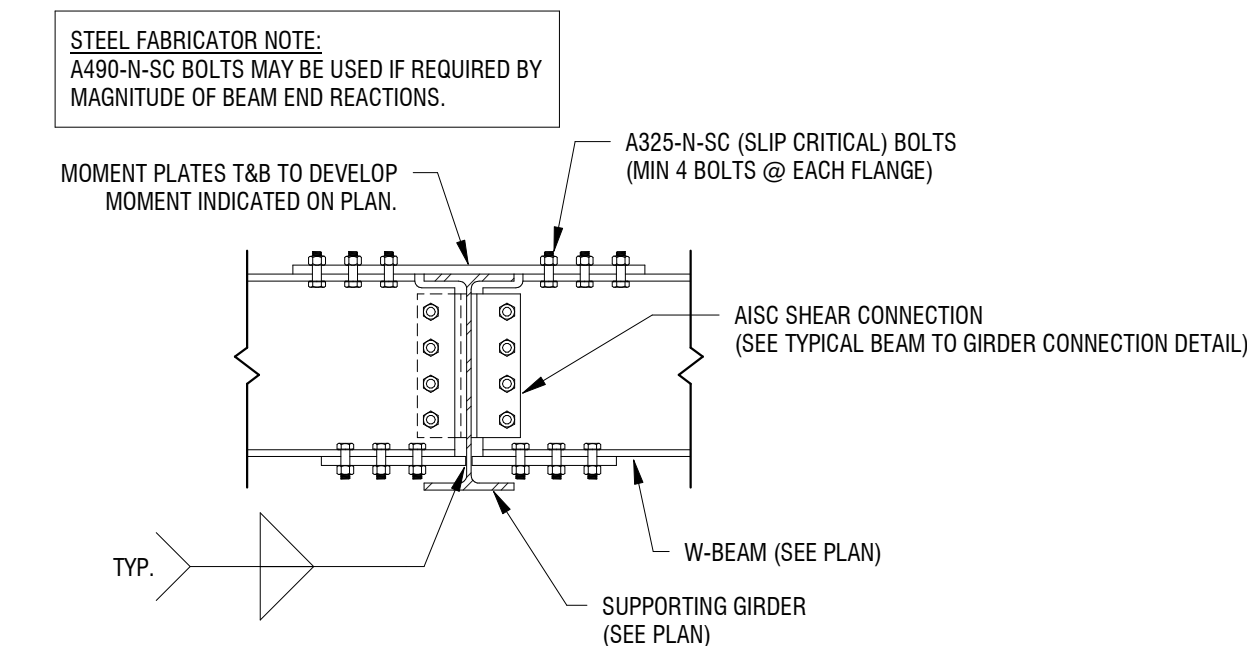
**S-400**



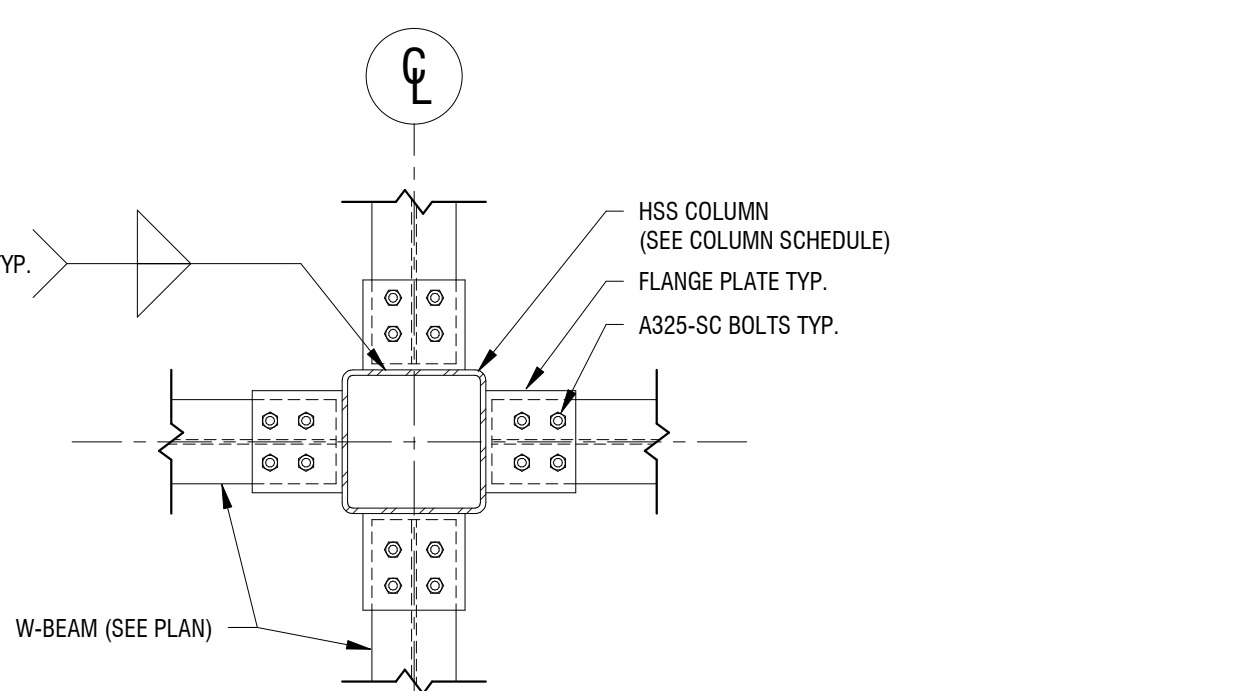
- STEEL FABRICATOR NOTES:**
1. CONNECTION TYPE SHALL NOT BE USED AT LOCATIONS WHERE INTERFERENCE WITH CONTINUOUS INSULATION MAY OCCUR.
  2. LAYOUT SHOWN IS SCHEMATIC ONLY.
  3. CONNECTIONS TO BE DESIGNED AND DETAILED BY FABRICATOR.
  4. DESIGN PER AISC REQUIREMENTS FOR FULLY RESTRAINED MOMENT CONNECTIONS TO HSS COLUMNS.
  5. A490-N-SC BOLTS MAY BE USED IF REQUIRED TO REDUCE CONNECTION COST.
  6. FABRICATOR TO PROVIDE HSS WALL REINFORCEMENT PLATES AS REQUIRED PER AISC 360.



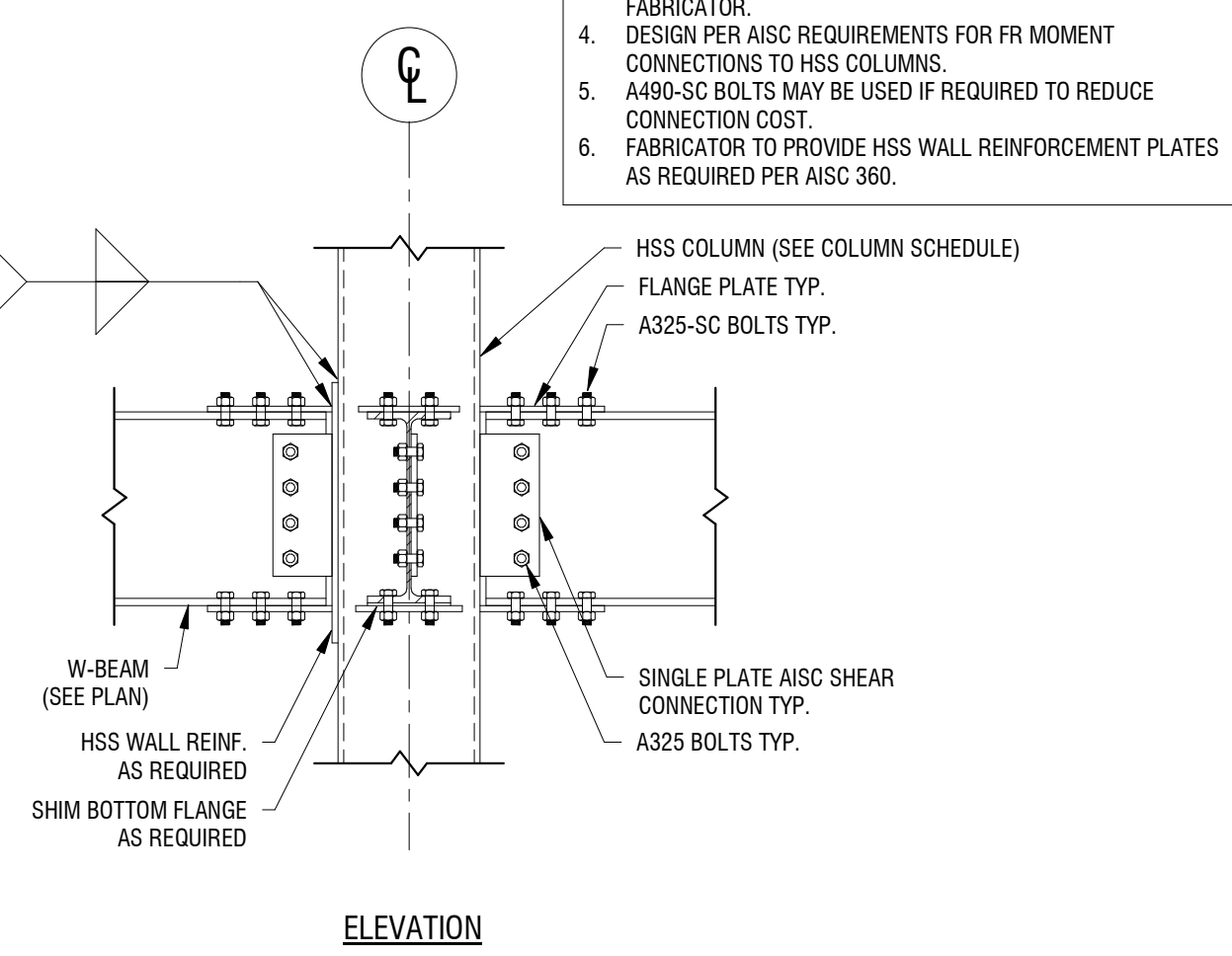
**2** TYPICAL CUT-OUT PLATE CONNECTION - AT ROOF  
S-400 3/4" = 1'-0"



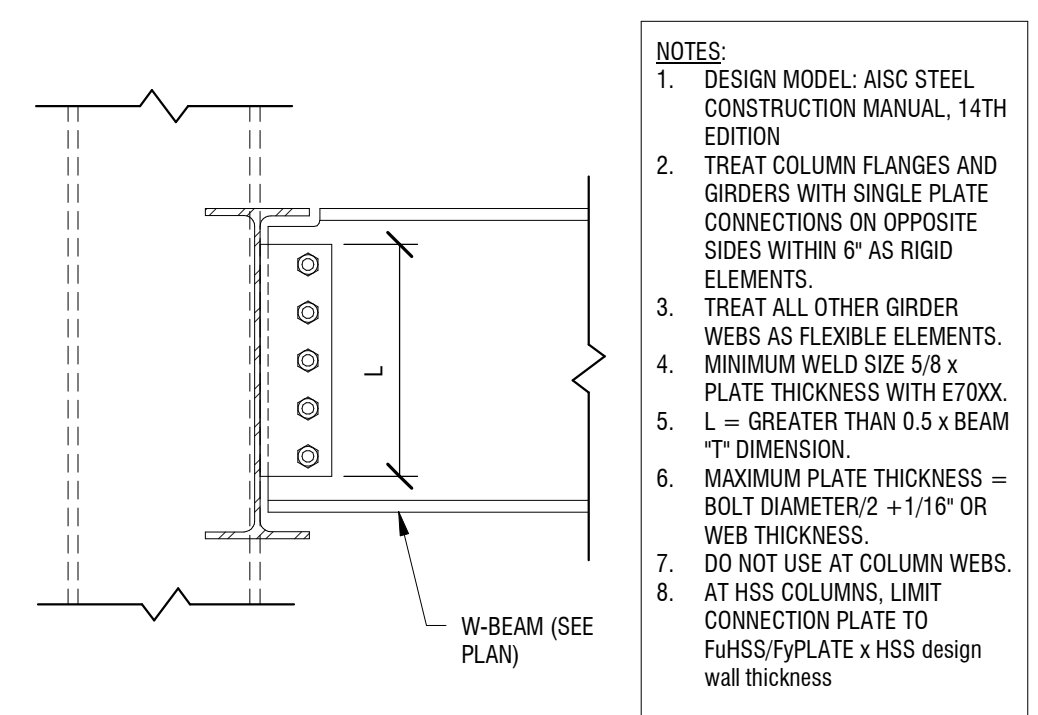
**4** TYPICAL FIELD BOLTED MOMENT CONNECTION  
S-400 3/4" = 1'-0"



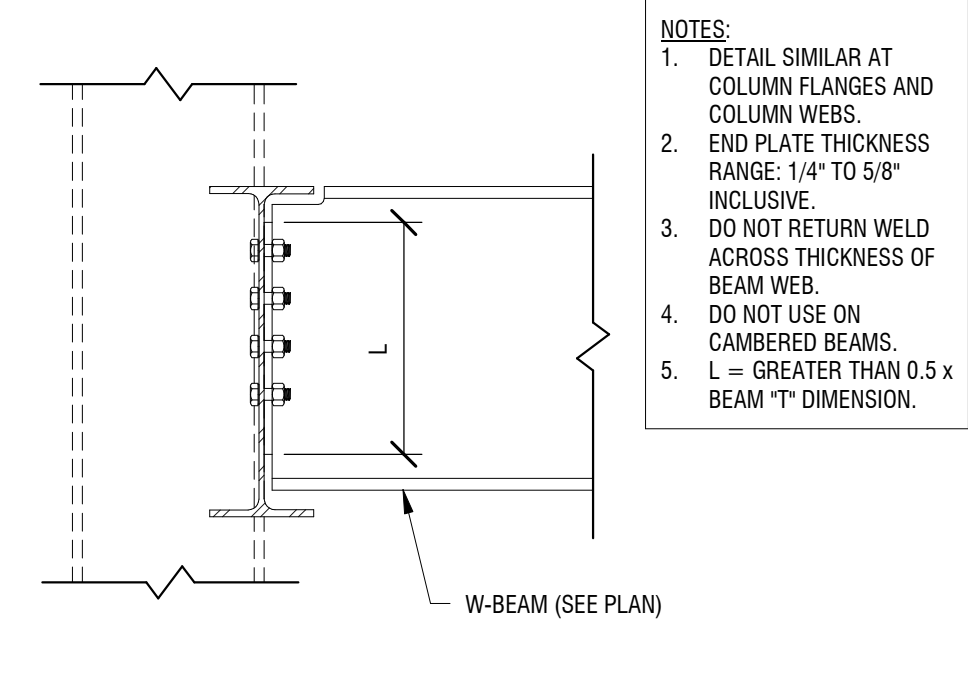
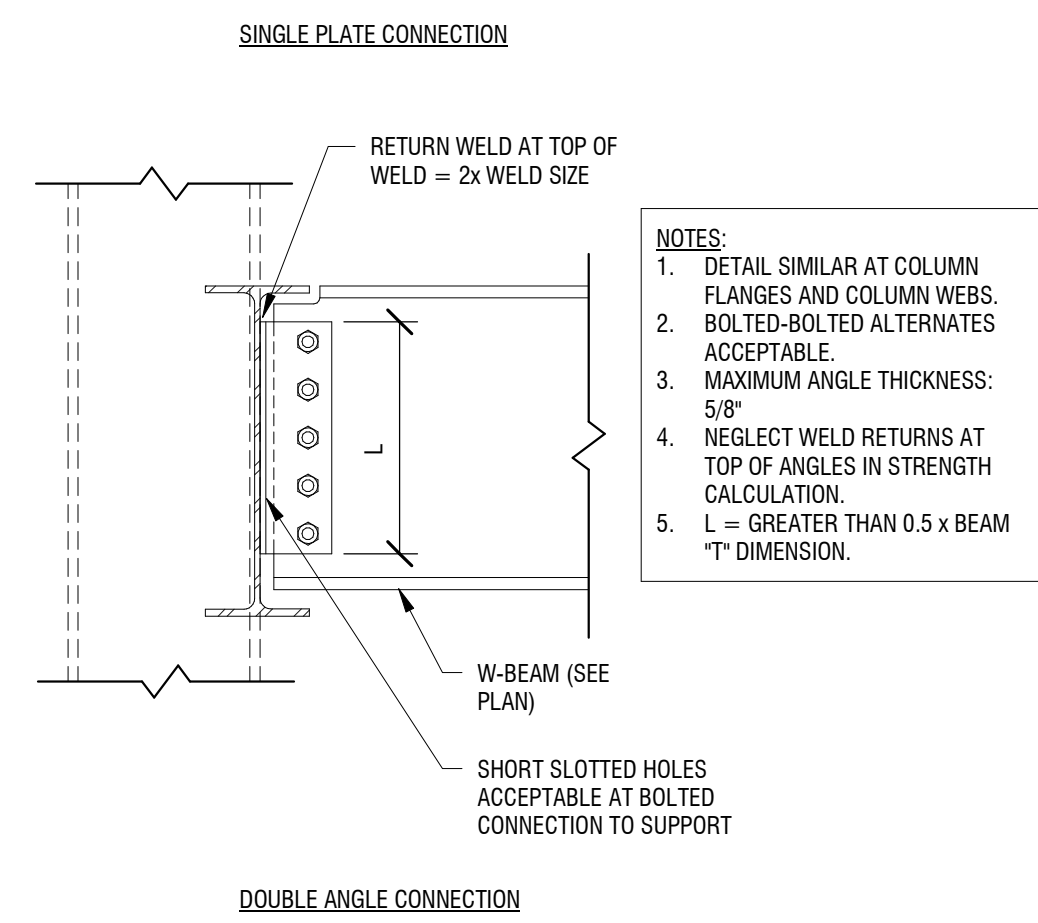
- STEEL FABRICATOR NOTES:**
1. CONNECTION TYPE MAY BE USED AT ALL LOCATIONS.
  2. LAYOUT SHOWN IS SCHEMATIC ONLY.
  3. CONNECTIONS TO BE DESIGNED AND DETAILED BY FABRICATOR.
  4. DESIGN PER AISC REQUIREMENTS FOR FR MOMENT CONNECTIONS TO HSS COLUMNS.
  5. A490-N-SC BOLTS MAY BE USED IF REQUIRED TO REDUCE CONNECTION COST.
  6. FABRICATOR TO PROVIDE HSS WALL REINFORCEMENT PLATES AS REQUIRED PER AISC 360.



**3** TYPICAL FACE WELDED PLATE CONNECTION  
S-400 3/4" = 1'-0"



- NOTES:**
1. DESIGN MODEL: AISC STEEL CONSTRUCTION MANUAL, 14TH EDITION
  2. TREAT COLUMN FLANGES AND GIRDER WITH SINGLE PLATE CONNECTIONS ON OPPOSITE SIDES WITHIN 6" AS RIGID ELEMENTS.
  3. TREAT ALL OTHER GIRDER WEBS AS FLEXIBLE ELEMENTS.
  4. MINIMUM WELD SIZE 5/8 x PLATE THICKNESS WITH E70XX.
  5. L = GREATER THAN 0.5 x BEAM "T" DIMENSION.
  6. MAXIMUM PLATE THICKNESS = BOLT DIAMETER/2 + 1/16" OR WEB THICKNESS.
  7. DO NOT USE AT COLUMN WEBS.
  8. AT HSS COLUMNS, LIMIT CONNECTION PLATE TO FuHSS/FyPLATE x HSS design wall thickness



**NOTES:**

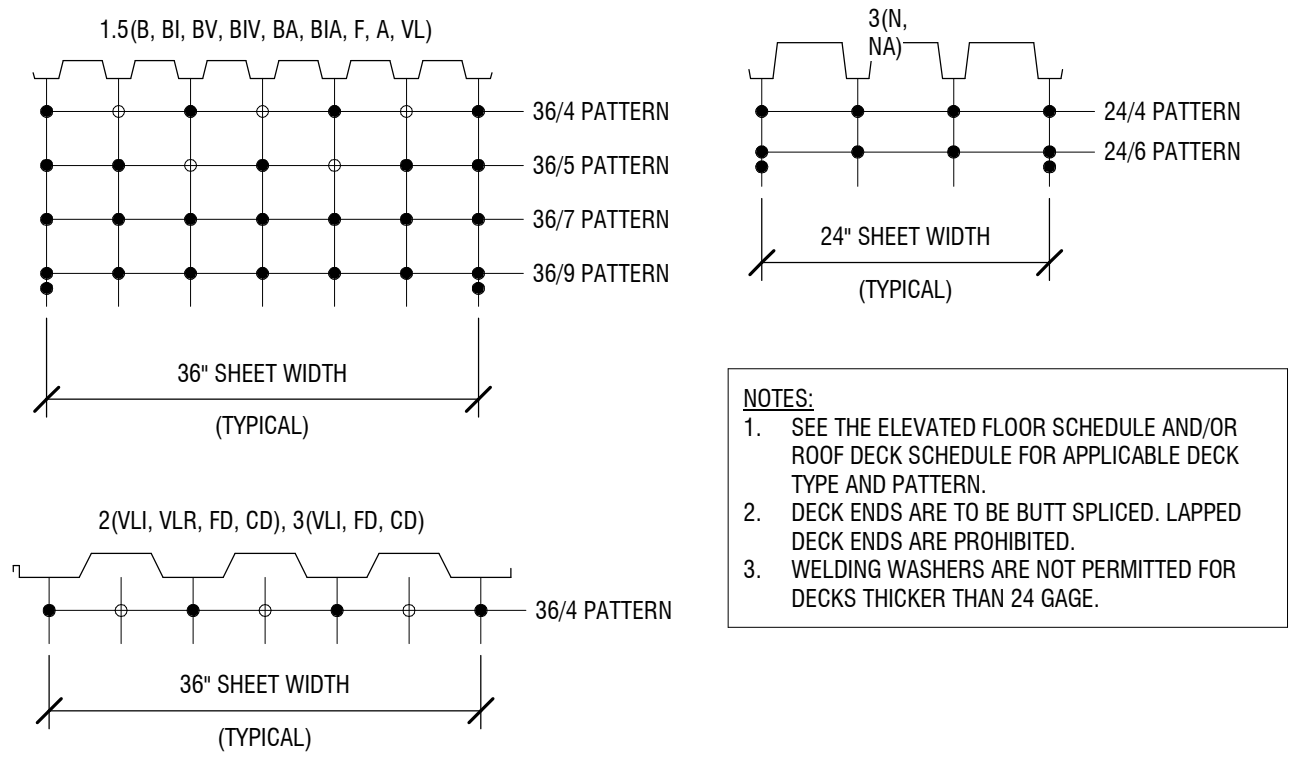
1. DETAIL SIMILAR AT COLUMN FLANGES AND COLUMN WEBS.
2. END PLATE THICKNESS RANGE: 1/4" TO 5/8" INCLUSIVE.
3. DO NOT RETURN WELD ACROSS THICKNESS OF BEAM WEB.
4. DO NOT USE ON CAMBERED BEAMS.
5. L = GREATER THAN 0.5 x BEAM "T" DIMENSION.

MINIMUM NUMBER OF ROWS OF BOLTS	MINIMUM DESIGN SHEAR FORCE	Vu
W8	2	25k
W10	2	30k
W12	3	40k
W14	3	45k
W16	4	45k
W18	4	50k
W21	5	55k
W24	5	85k
W27	6	125k
HSS10	2	30k

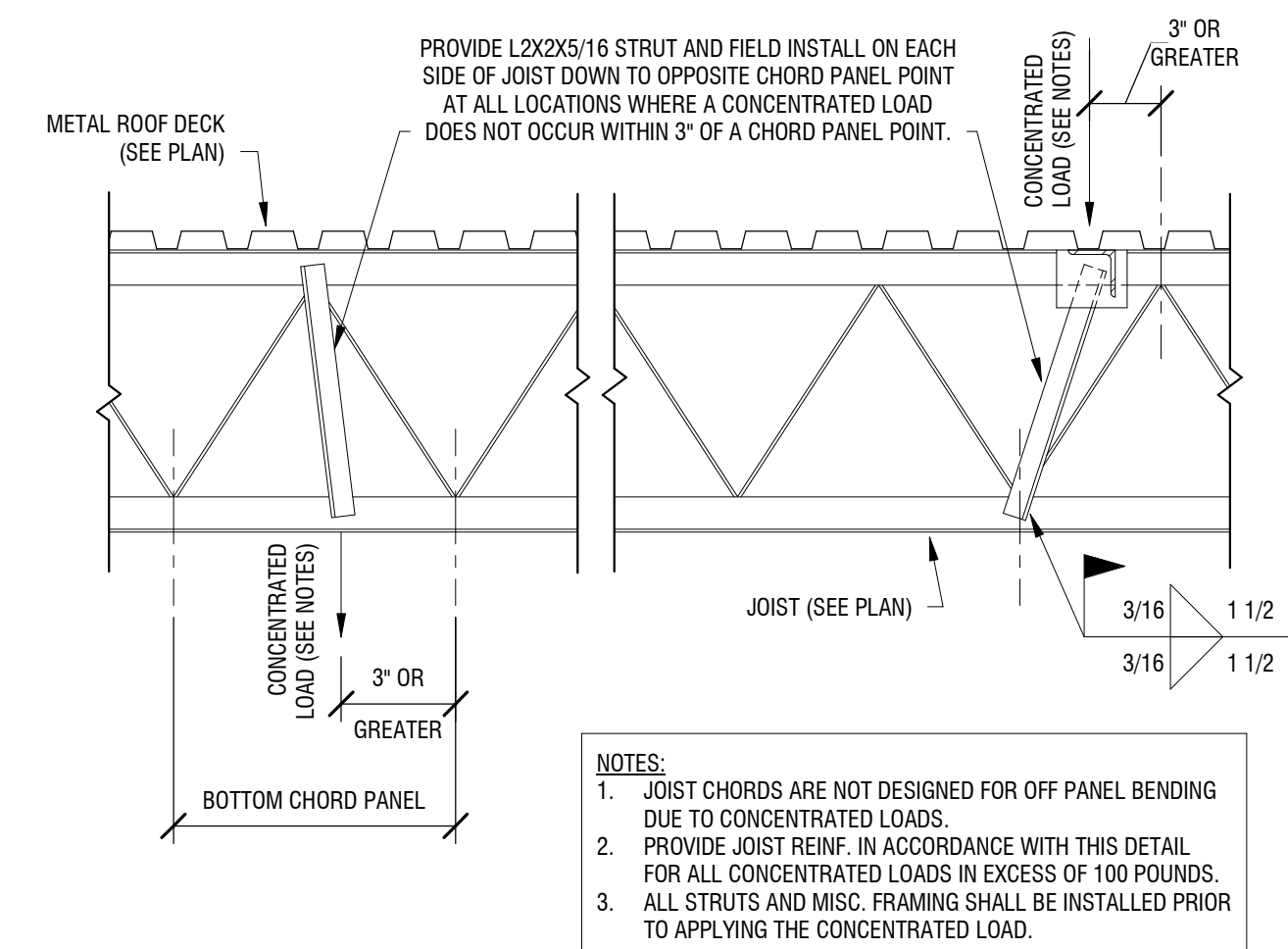
**GENERAL DESIGN NOTES:**

1. DESIGN CONNECTIONS FOR THE FORCES SHOWN ON THE DRAWINGS. IN THE ABSENCE OF FORCES SHOWN ON THE DRAWINGS, DESIGN CONNECTIONS FOR THE MINIMUM FACTORED BEAM SHEAR REACTION FORCE SHOWN IN THE TABLE.
2. MINIMUM BOLT SIZE IS 3/4" DIA. A325.
3. PRE-TENSION BOLTS CONNECTING TO COLUMNS, SNUG TIGHTEN ALL OTHER BOLTS.
4. REINFORCE WEBS AS REQUIRED BY COPIES, WEB CUTS, ETC.
5. ALTERNATE CONNECTIONS SUCH AS SINGLE ANGLE, TEE, SEATED CONNECTIONS, ETC. MAY BE ACCEPTABLE UNDER CERTAIN CIRCUMSTANCES. REVIEW PROPOSED CONNECTIONS WITH ENGINEER OF RECORD.
6. SEE DETAILS AND SECTIONS FOR BEAMS REQUIRED FULL DEPTH CONNECTIONS.
7. DETAIL IN CONFORMANCE WITH THE REQUIREMENTS OF \*
8. GRIND COPIES FOR GROUP 4 AND 5 SECTIONS PER THE AISC SPECIFICATION.

**1** TYPICAL SHEAR CONNECTION  
S-400 1" = 1'-0"

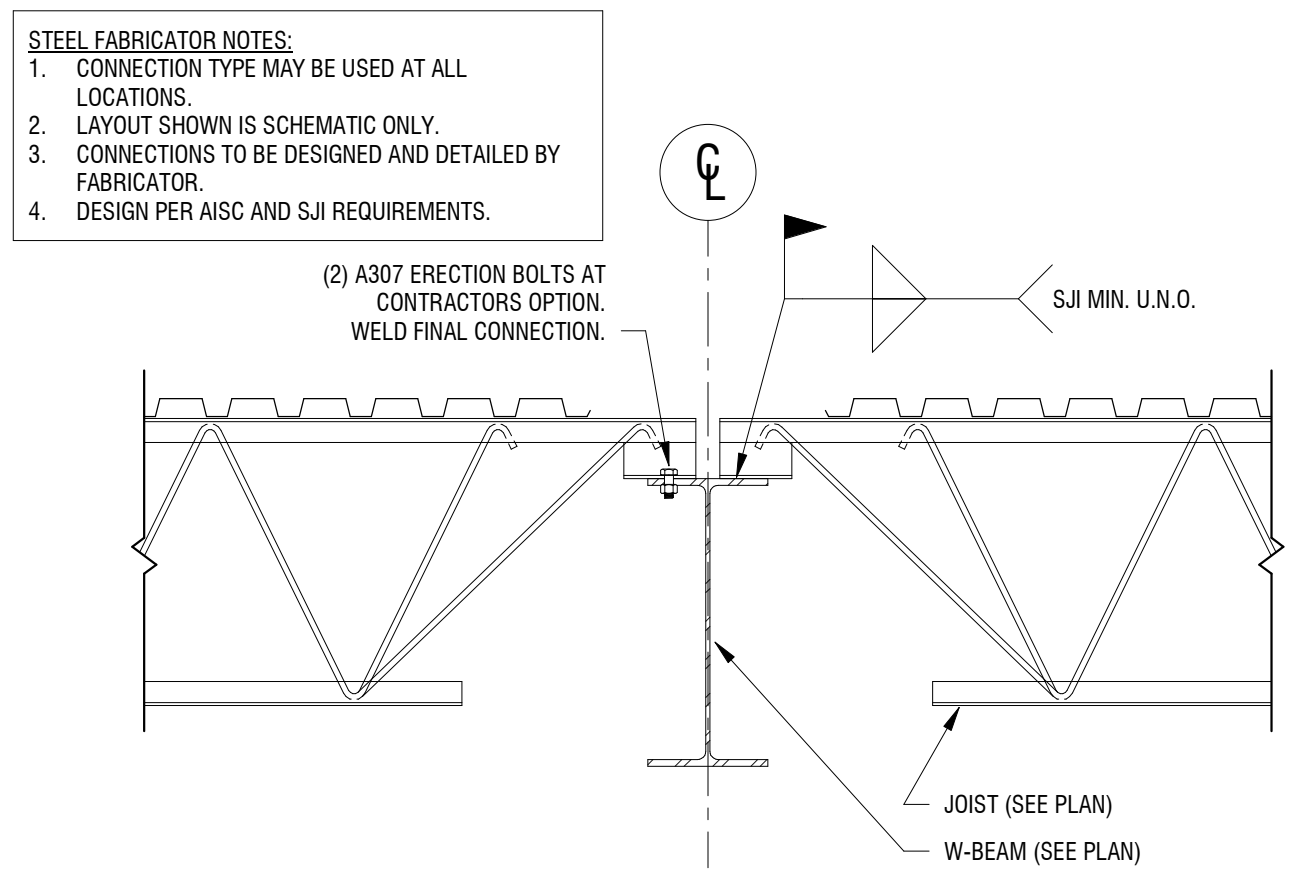


**7** TYPICAL METAL DECK FASTENING LAYOUT  
S-400 3/4" = 1'-0"

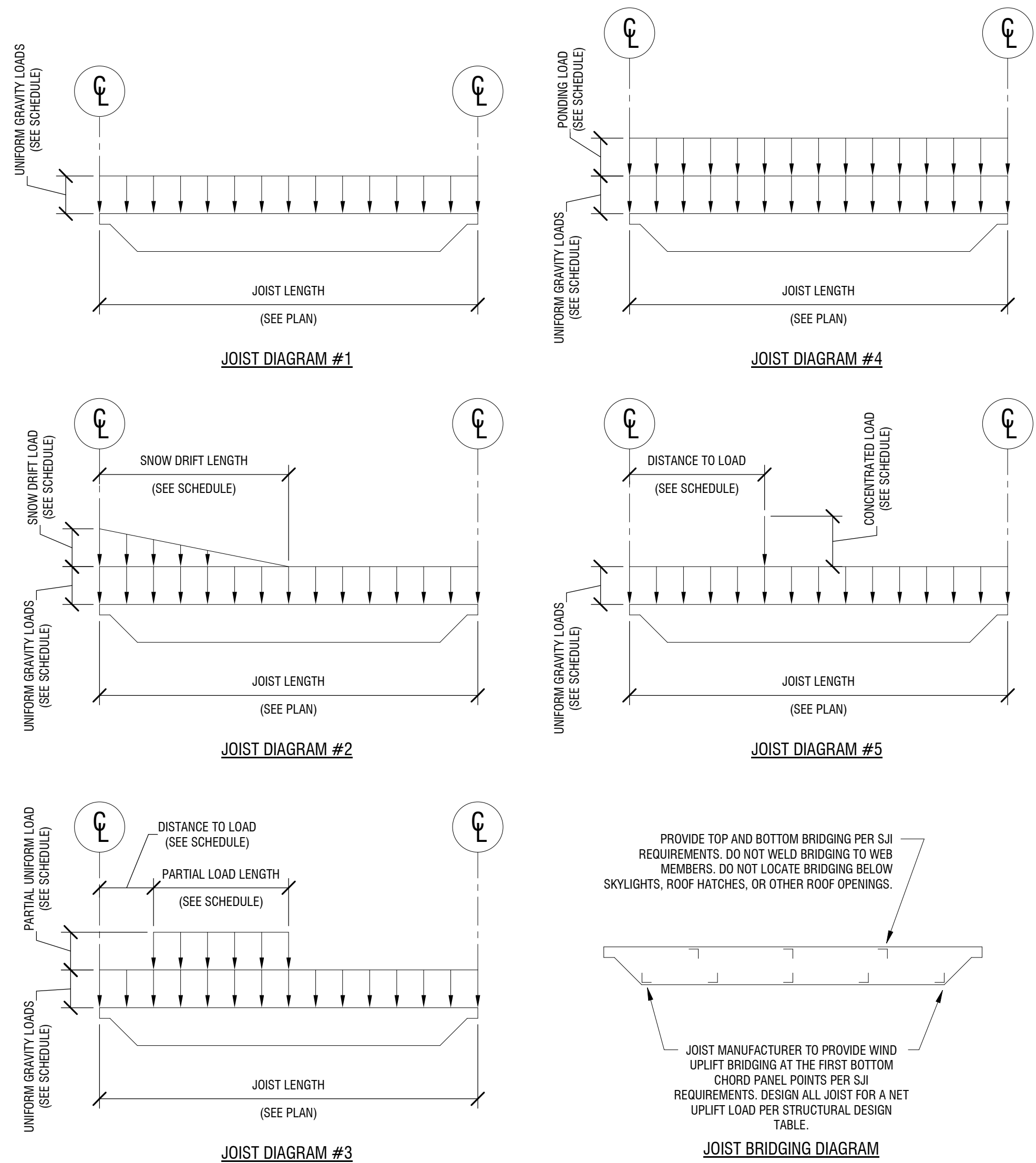


- NOTES:**
1. JOIST CHORDS ARE NOT DESIGNED FOR OFF PANEL BENDING DUE TO CONCENTRATED LOADS.
  2. PROVIDE JOIST REINF. IN ACCORDANCE WITH THIS DETAIL FOR ALL CONCENTRATED LOADS IN EXCESS OF 100 POUNDS.
  3. ALL STRUTS AND MISC. FRAMING SHALL BE INSTALLED PRIOR TO APPLYING THE CONCENTRATED LOAD.

**6** TYPICAL JOIST CONCENTRATED LOAD REINF.  
S-400 3/4" = 1'-0"



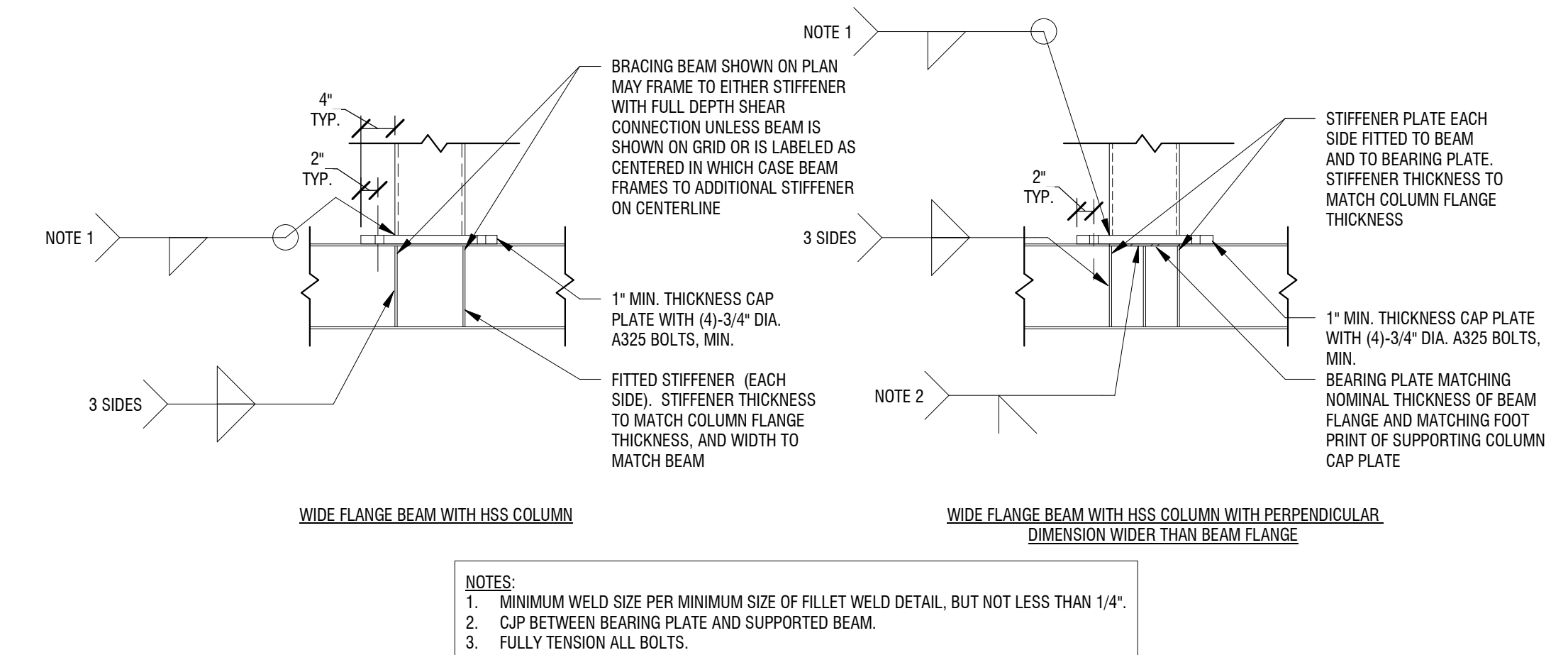
**5** TYPICAL JOIST ON GIRDER  
S-400 3/4" = 1'-0"



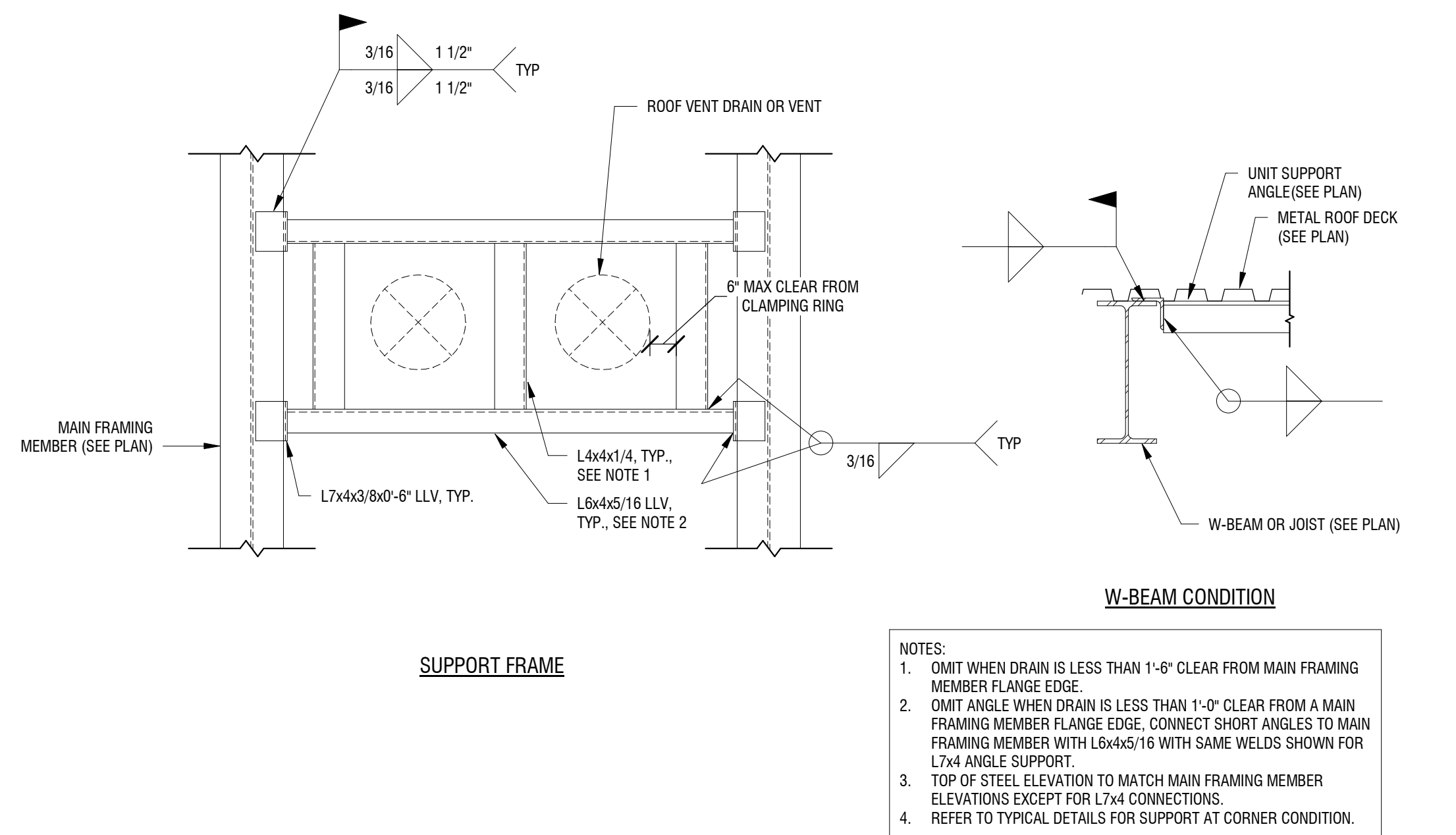
- NOTES:**
1. SNOW DRIFT LOADS SHALL BE USED IN CONJUNCTION WITH DEAD AND SNOW LOADS ONLY.
  2. PONDING LOAD SHALL BE A LIVE LOAD IN ADDITION TO THE UNIFORM ROOF LIVE LOAD. PONDING LOAD SHALL NOT BE INCLUDED WITH THE SNOW LOADS.
  3. IN ADDITION TO THE ROOF UNIFORM GRAVITY LOADS, DESIGN SPECIAL JOISTS TO ACCOMMODATE SNOW DRIFT LOADS SHOWN IN THE JOIST SCHEDULE, RTU LOADS, SOFFIT LOADS, AND ANY OTHER CONCENTRATED OR DISTRIBUTED LOADS INDICATED IN JOIST DIAGRAMS OR ON PLANS.
  4. BRIDGING AND WEB MEMBERS ARE NOT DESIGNED FOR LOADS OTHER THAN AXIAL. NO ATTACHMENT OF ANY TYPE SHALL BE MADE TO BRIDGING OR JOIST WEB MEMBERS. ALL LOAD ATTACHMENT SHALL BE TO JOIST CHORDS ONLY.
  5. LIVE LOAD DEFLECTION LIMIT IS L/240.
  6. JOISTS SHALL RESIST THE MOST CRITICAL EFFECTS FROM THE LOAD COMBINATIONS LISTED IN THE APPLICABLE BUILDING CODE.
  7. COORDINATE WEIGHT AT POINT LOADS AND LOCATIONS WITH THE CONTRACTOR AND CONTRACT DOCUMENTS.

SPECIAL JOIST SCHEDULE										
JOIST SIZE		UNIFORMLY DISTRIBUTED LOADS		SNOW DRIFT LOADS			CONCENTRATED LOADS		DIAGRAM NUMBER	NOTES
MARK	DEPTH	DEAD LOADS	SNOW LOADS	LINEAR SNOW DRIFT LOAD	DISTANCE TO LOAD	SNOW DRIFT LENGTH	CONCENTRATED RTU DEAD LOAD	DISTANCE TO LOAD		
20K3SP1	1' - 8"	70 lb/ft	150 lb/ft	0 lb/ft	0"	0"	0.25 kp	SEE PLAN	J3	-
20K3SP2	1' - 8"	60 lb/ft	130 lb/ft	70 lb/ft	0"	18' - 9"	0.50 kp	SEE PLAN	J3	-

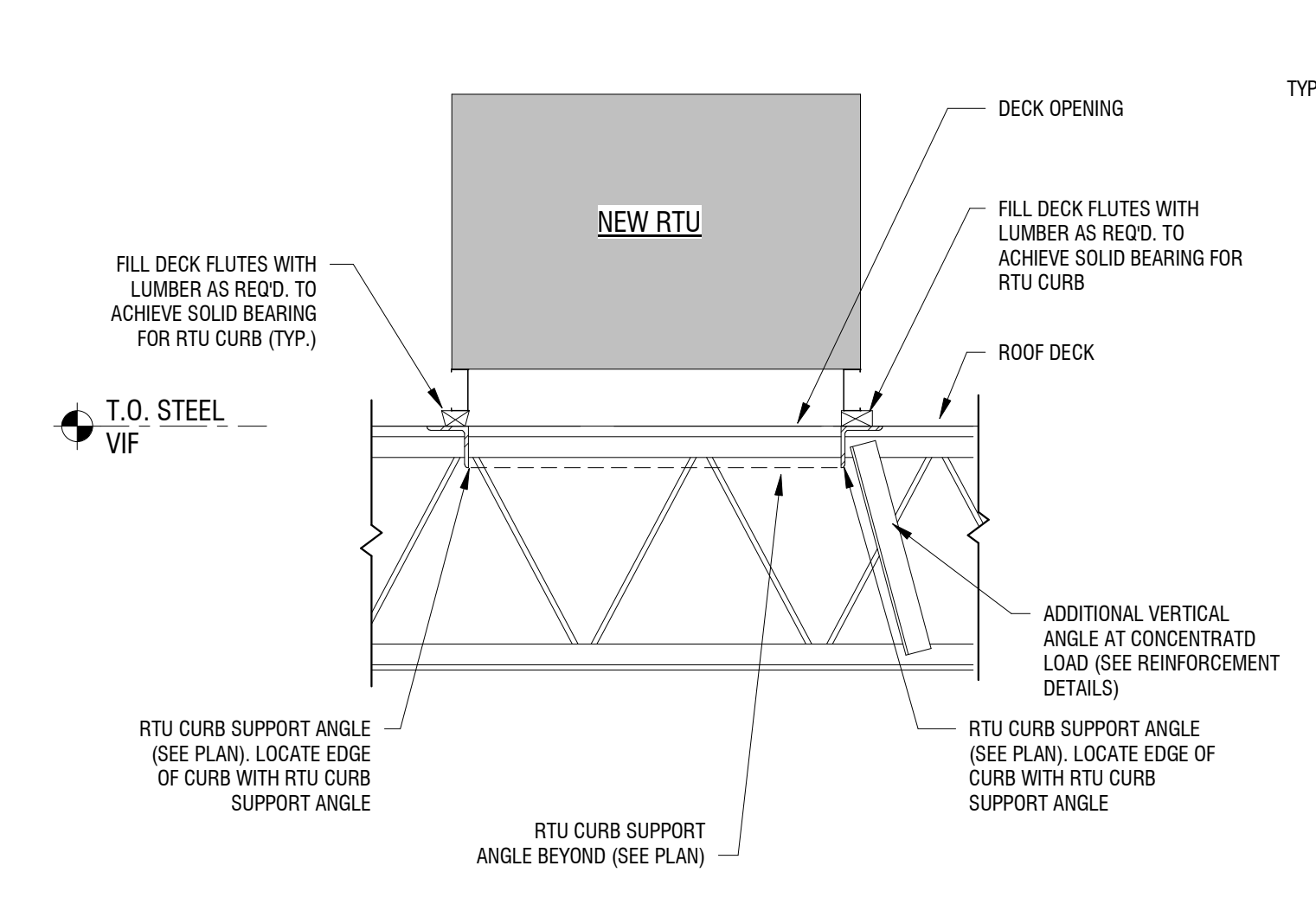
**4 JOIST DIAGRAMS**  
S-401 1/8" = 1'-0"



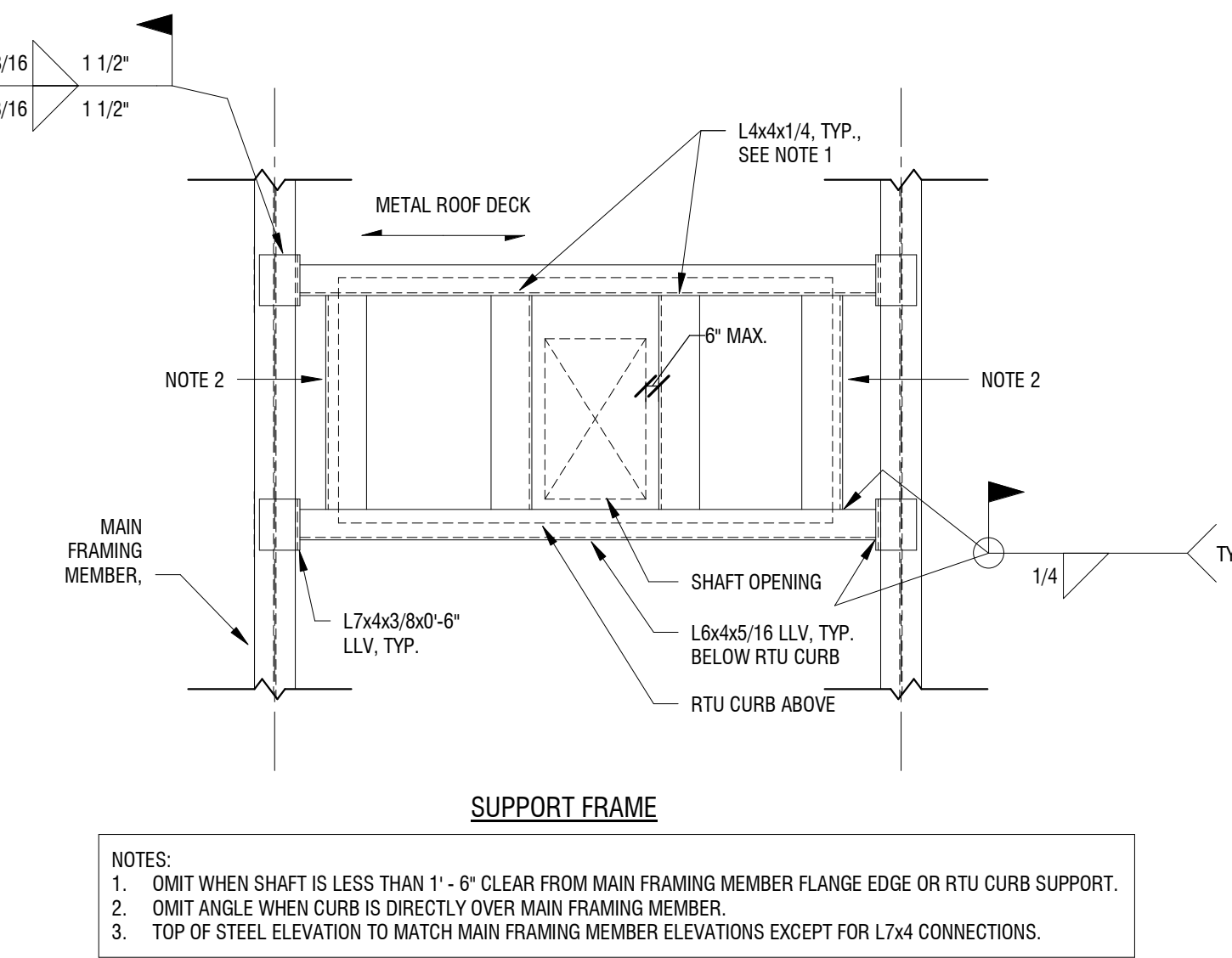
**3 TYPICAL COLUMN OVER BEAM DETAIL**  
S-401 3/4" = 1'-0"



**2 TYPICAL VENT, ROOF DRAIN AND EXHAUST FAN SUPPORT**  
S-401 3/4" = 1'-0"



**1 TYPICAL RTU SUPPORT DETAIL**  
S-401 3/4" = 1'-0"



**NOTES:**

1. OMIT WHEN SHAFT IS LESS THAN 1' - 6" CLEAR FROM MAIN FRAMING MEMBER FLANGE EDGE OR RTU CURB SUPPORT.
2. OMIT ANGLE WHEN CURB IS DIRECTLY OVER MAIN FRAMING MEMBER.
3. TOP OF STEEL ELEVATION TO MATCH MAIN FRAMING MEMBER ELEVATIONS EXCEPT FOR L7x4 CONNECTIONS.

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2181539
DRAWN BY:		KRM
REVIEWED BY:		MCW
ISSUED FOR:		BID
DATE:		JANUARY 2019
DRAWING NAME:		

**TYPICAL STEEL DETAILS (2 OF 2)**

DRAWING NUMBER:

**S-401**



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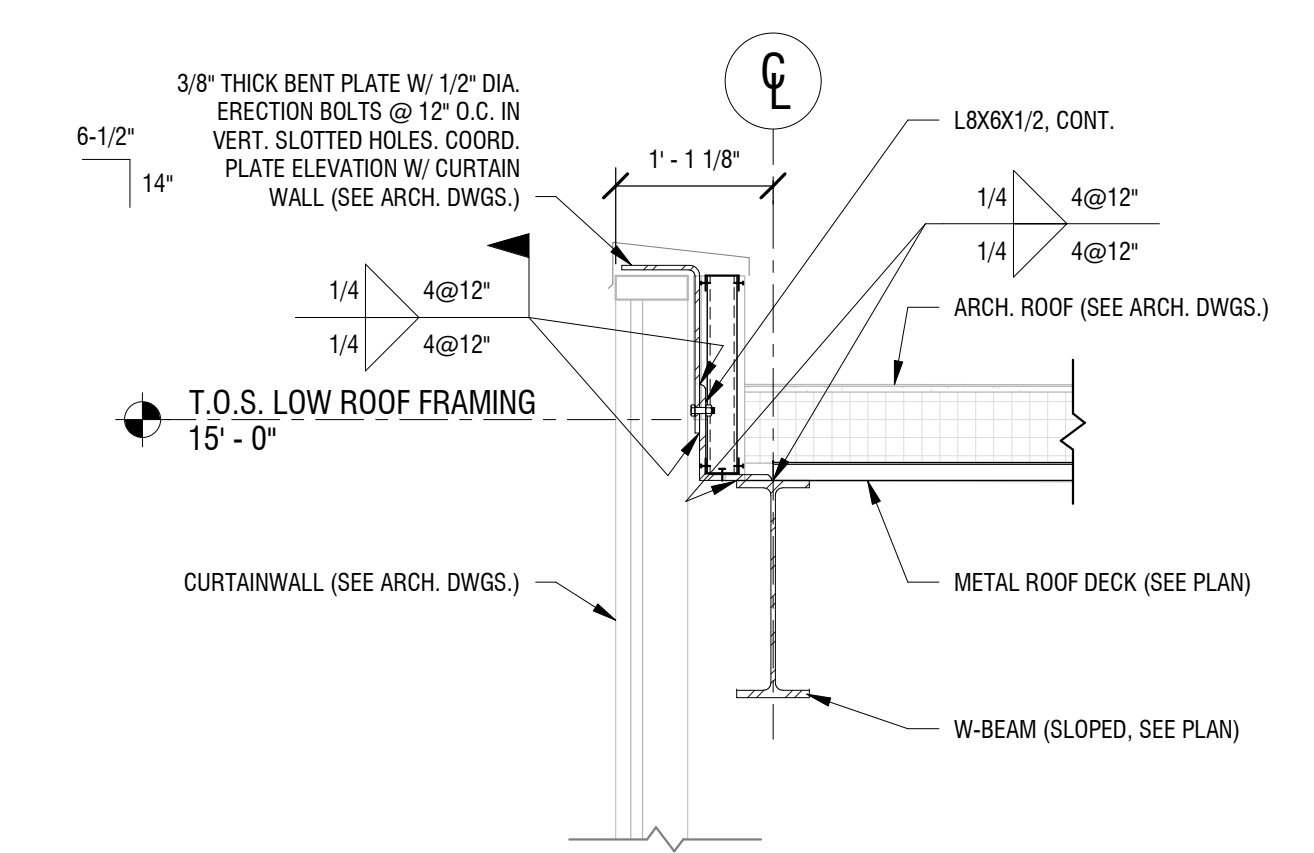
DATE: JANUARY 2019

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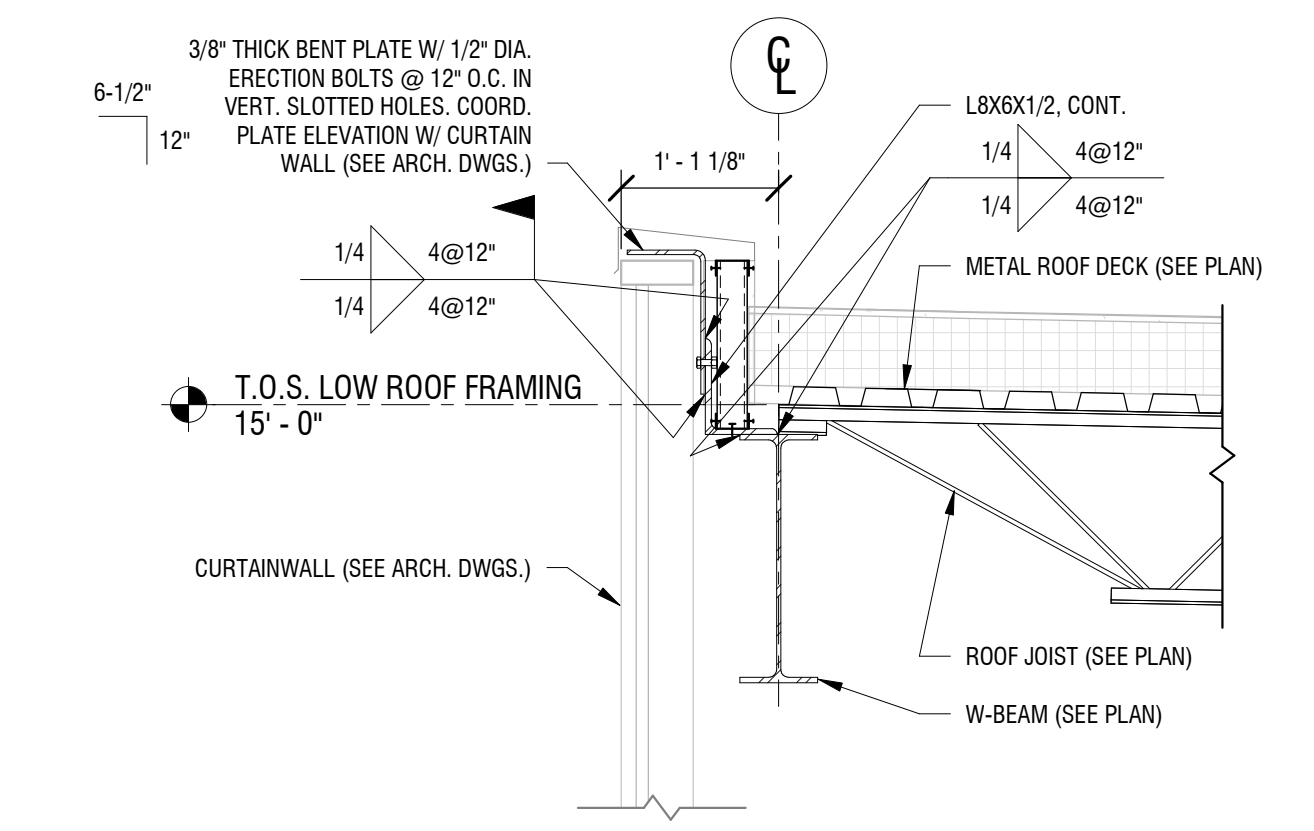
**FRAMING SECTIONS & DETAILS (1 OF 2)**

DRAWING NUMBER:

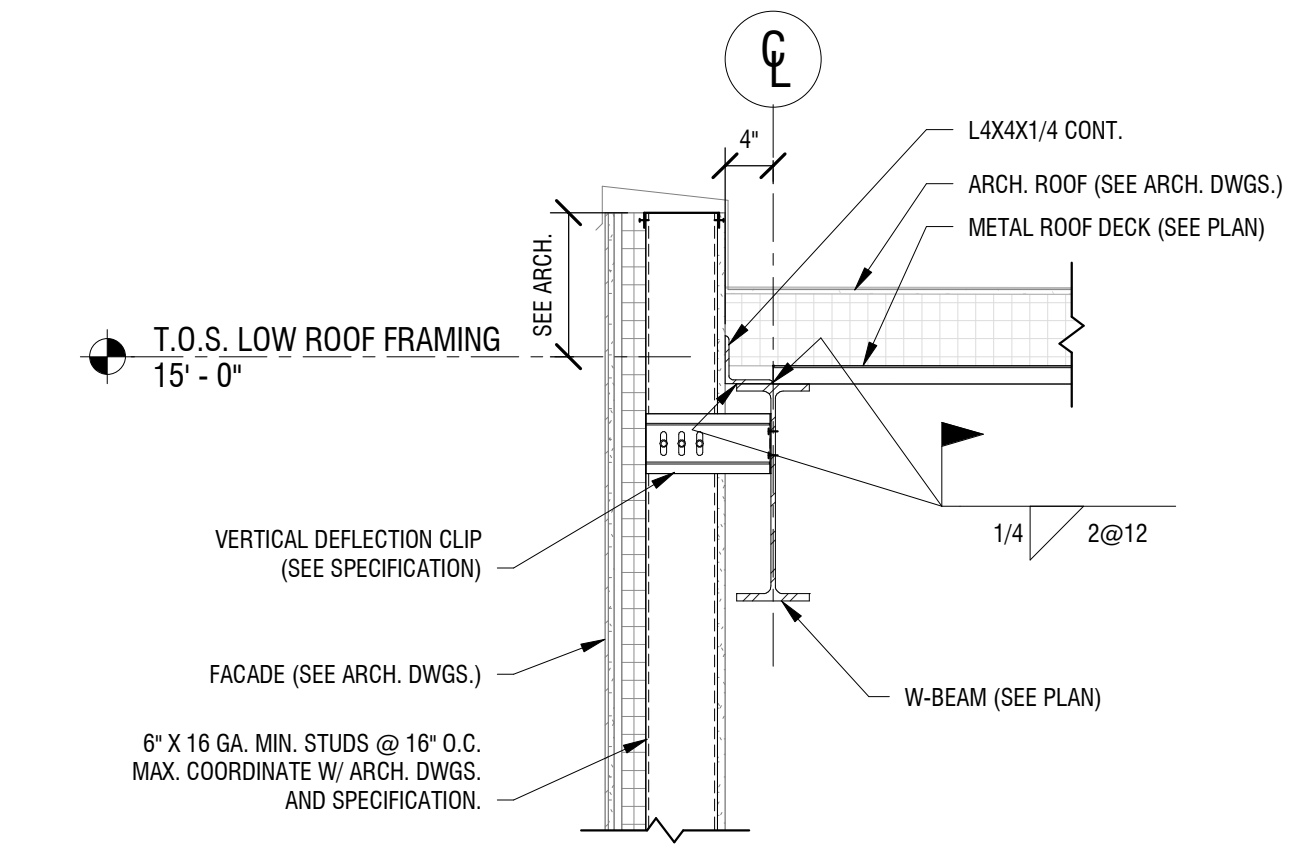
**S-402**



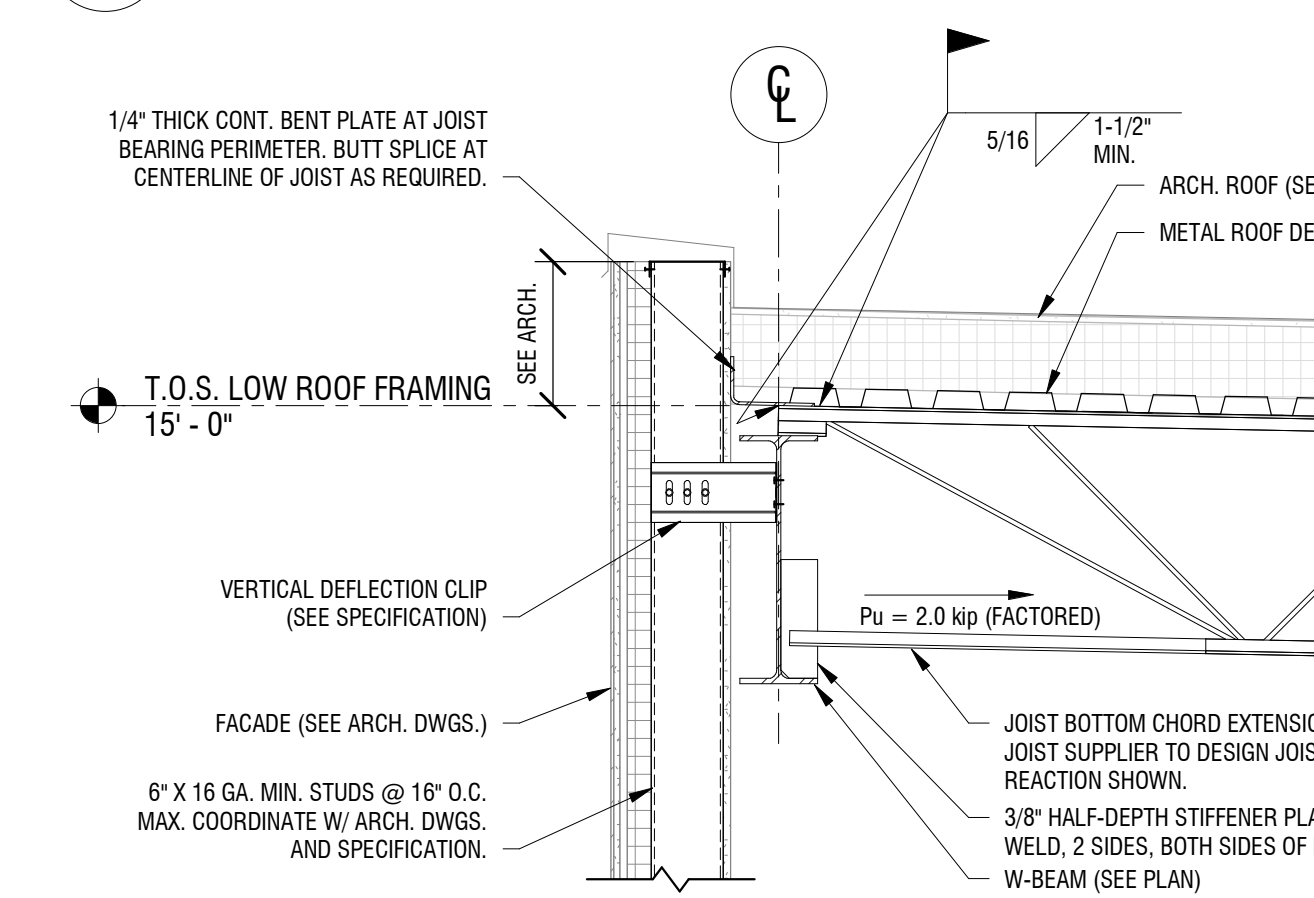
**4 SECTION AT ROOF EDGE**  
3/4" = 1'-0"



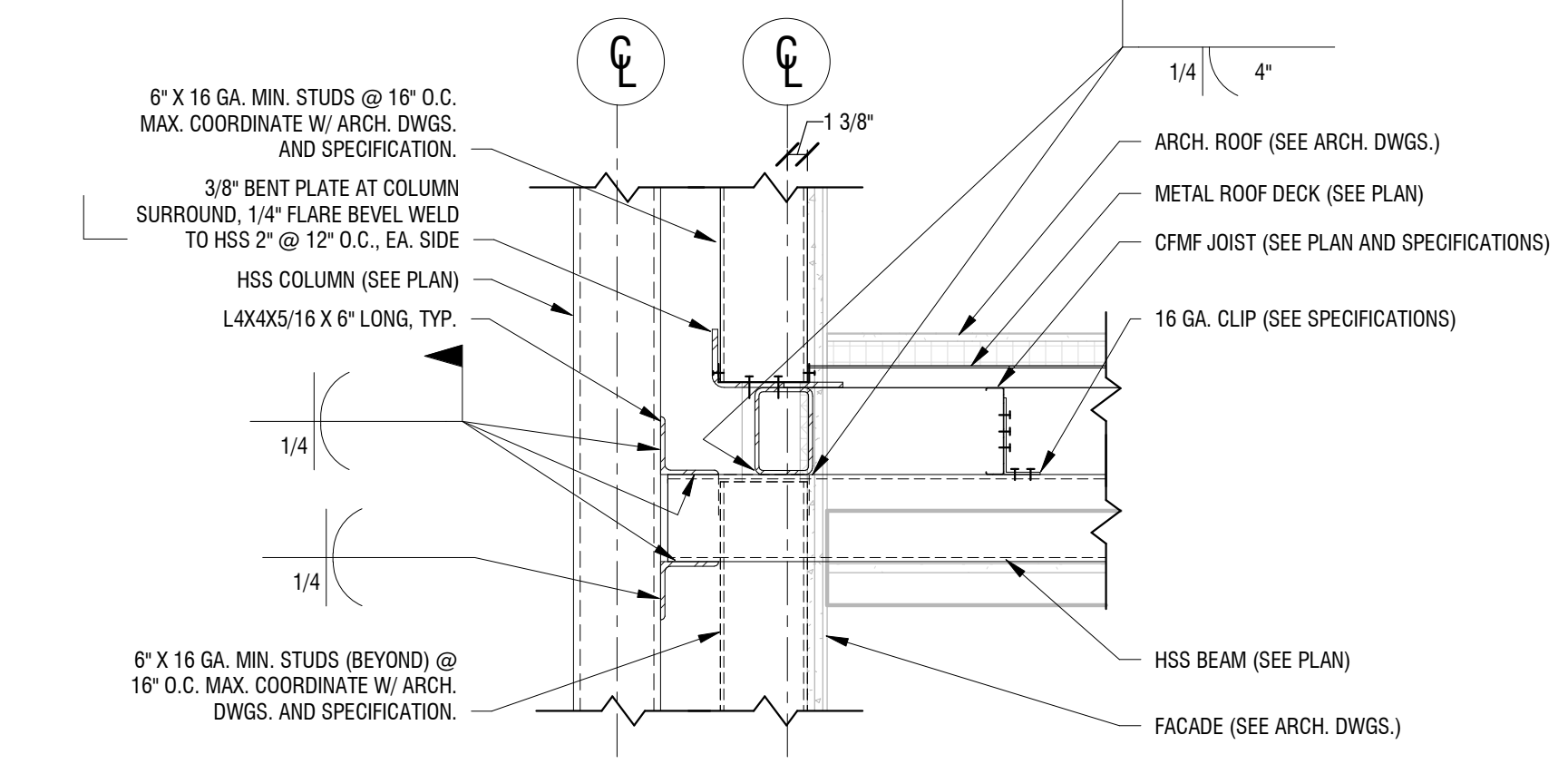
**3 SECTION AT ROOF EDGE**  
3/4" = 1'-0"



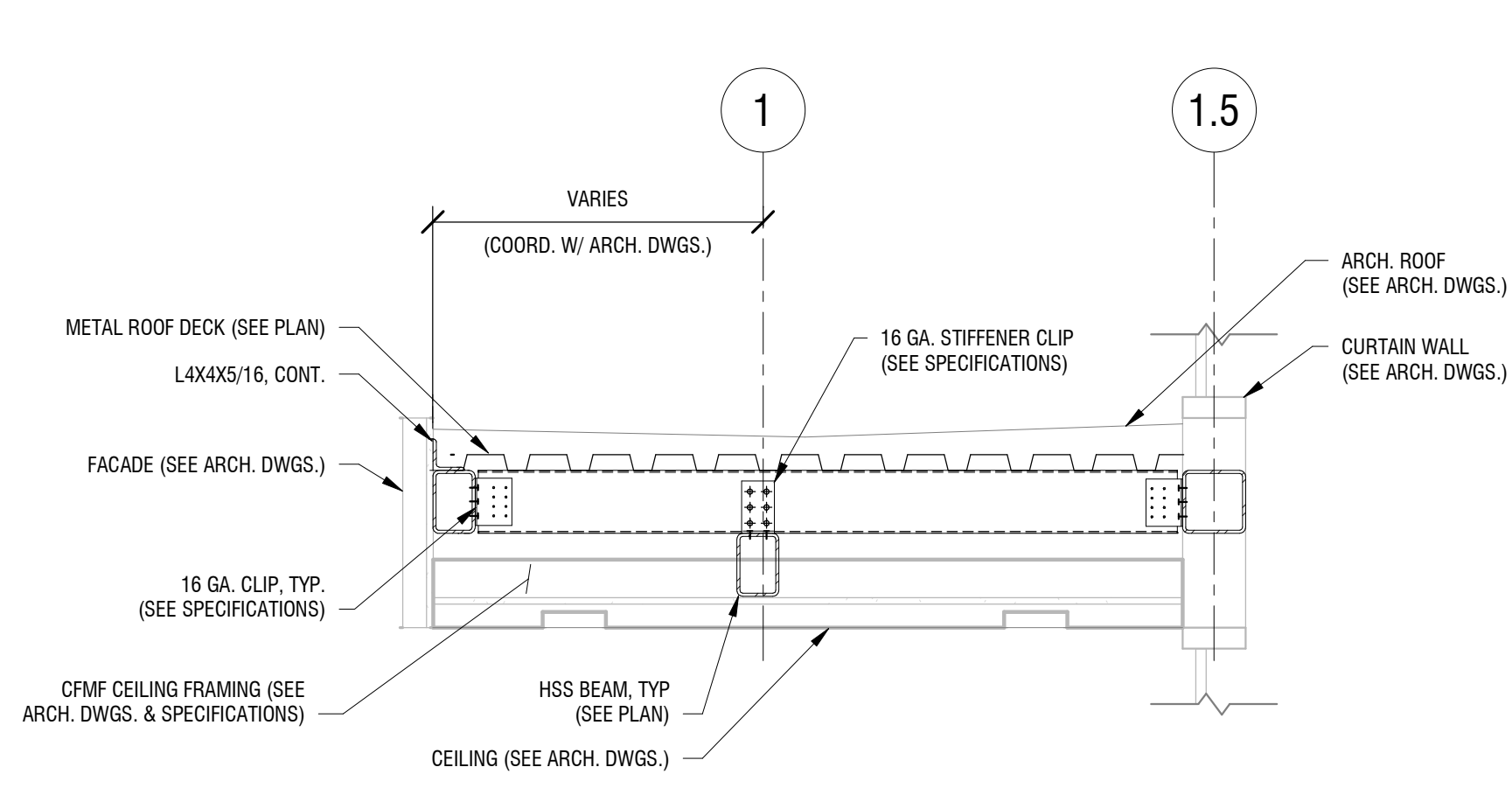
**2 SECTION AT ROOF EDGE**  
3/4" = 1'-0"



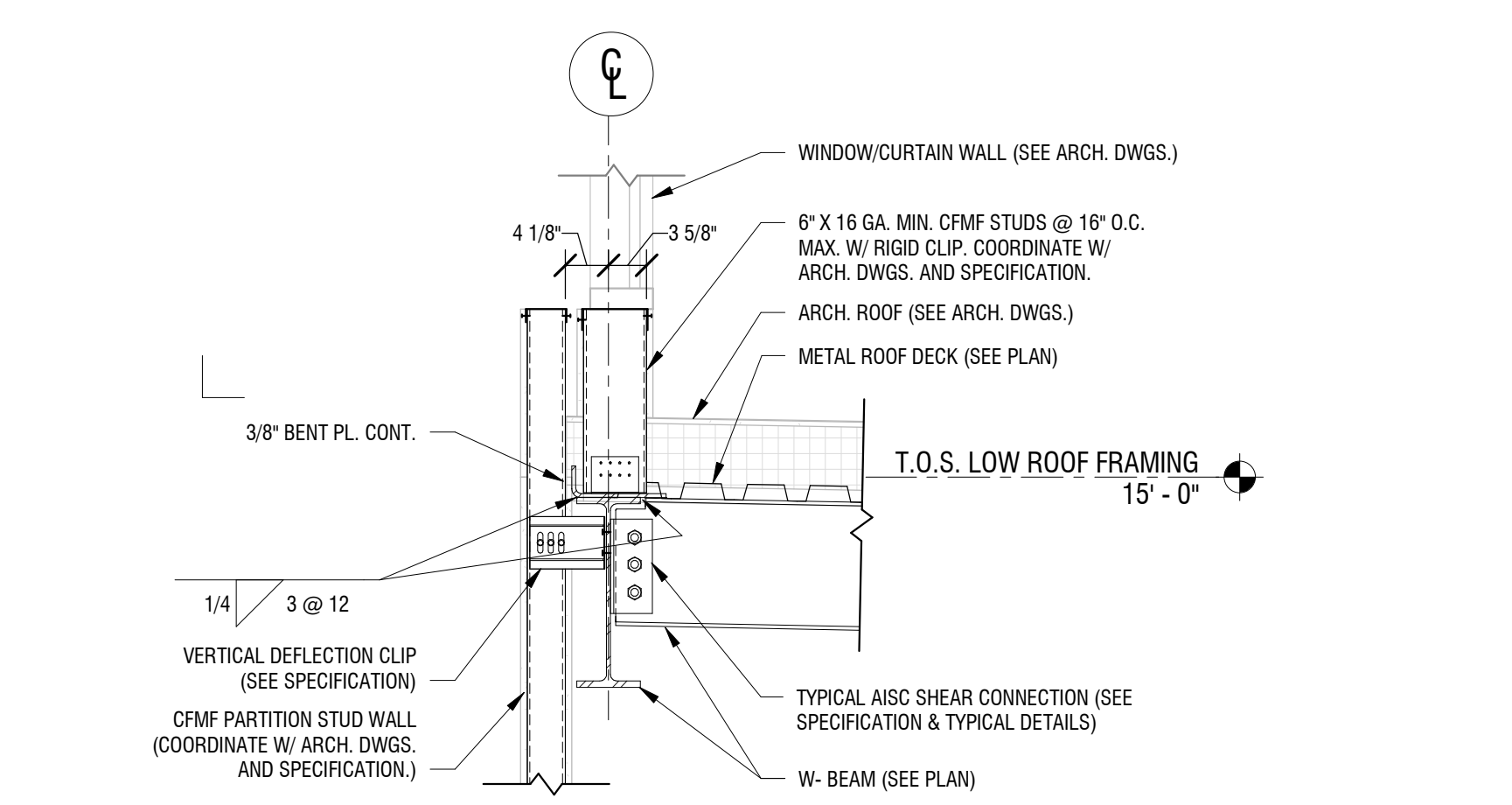
**1 SECTION AT ROOF EDGE**  
3/4" = 1'-0"



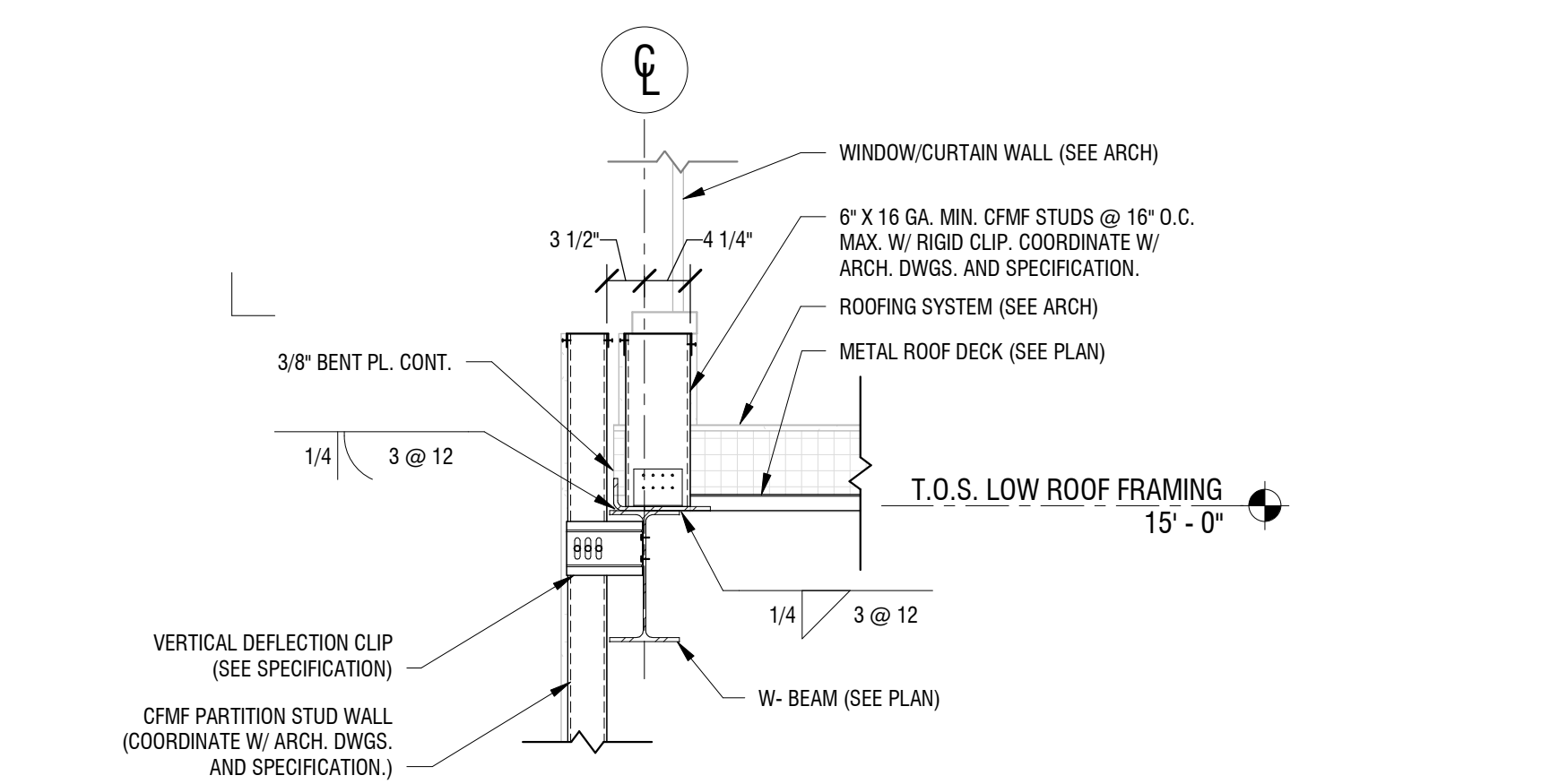
**8 FRAMING SECTION AT ENTRANCE CANOPY**  
1" = 1'-0"



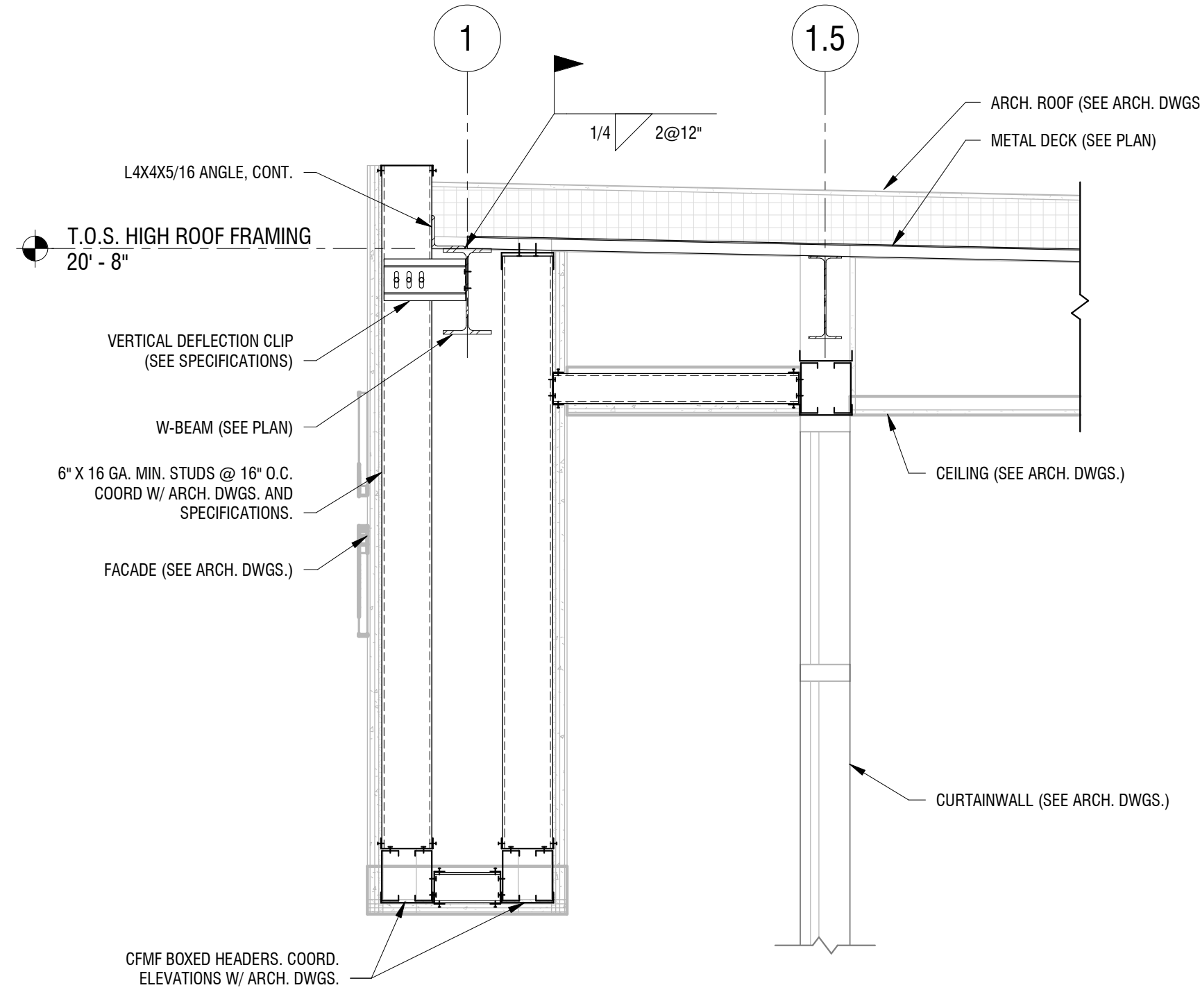
**7 FRAMING SECTION AT ENTRANCE CANOPY**  
3/4" = 1'-0"



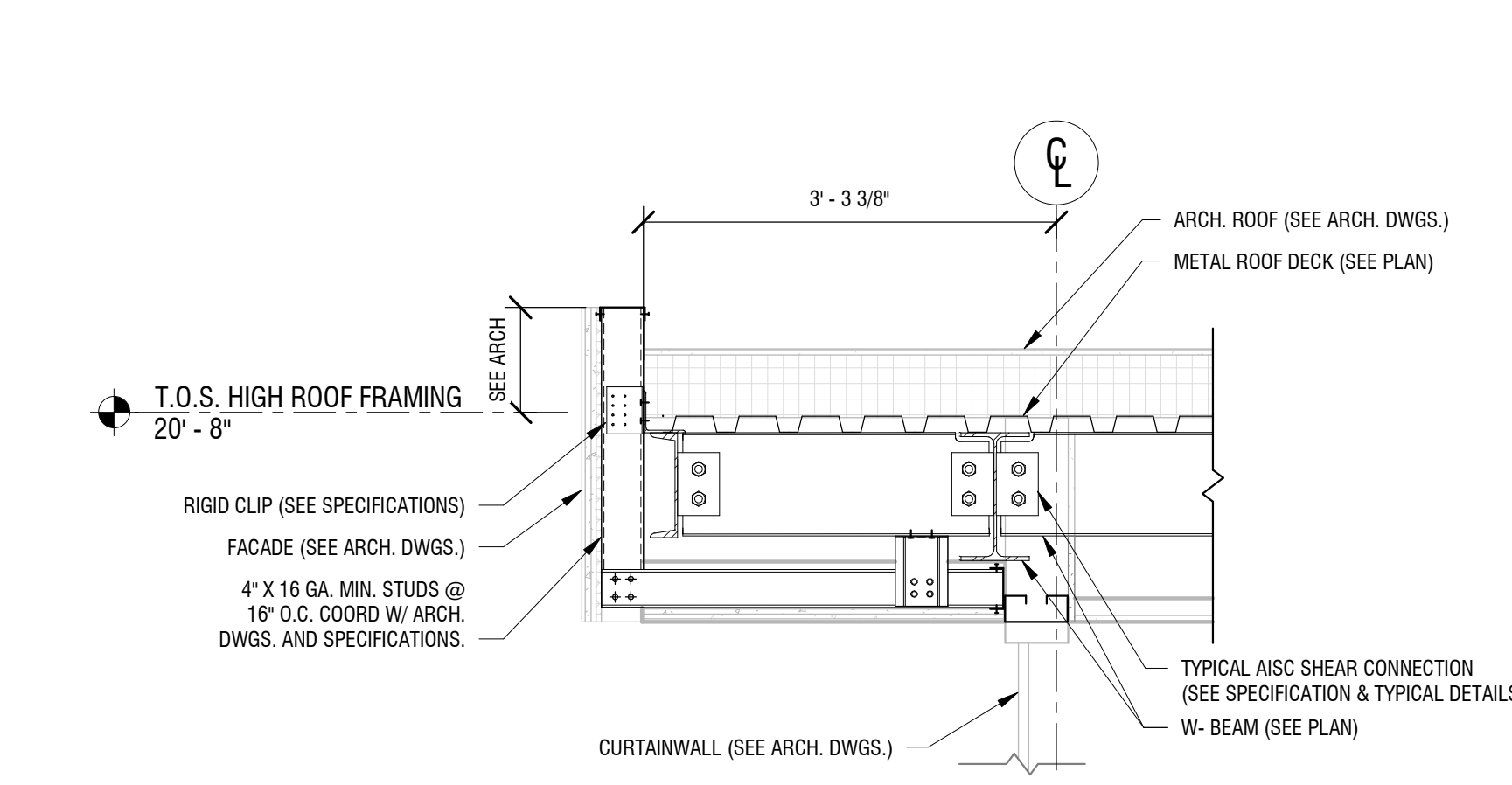
**6 LOW ROOF EDGE DETAIL AT MAIN ENTRANCE**  
3/4" = 1'-0"



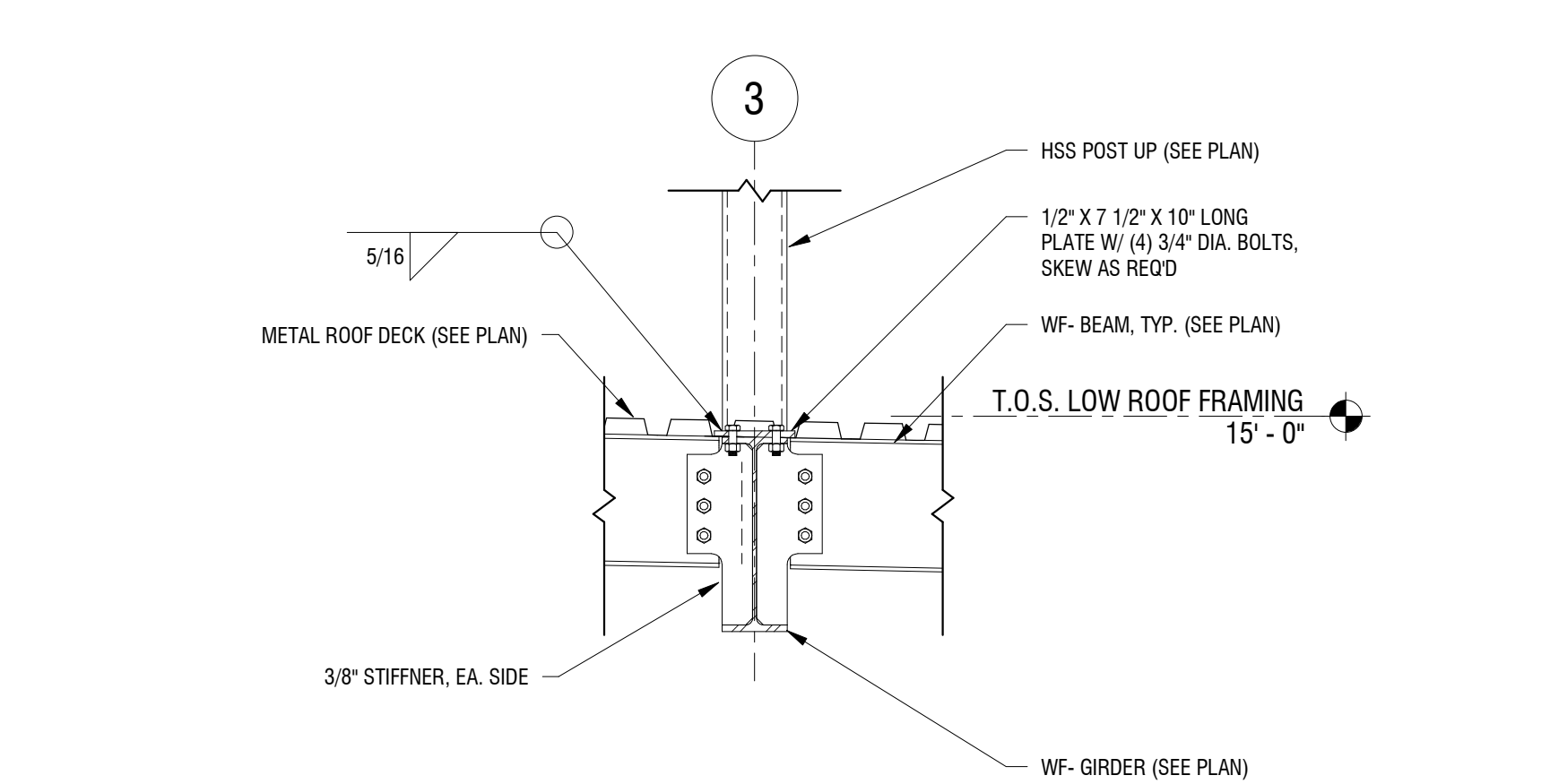
**5 LOW ROOF EDGE DETAIL AT MAIN ENTRANCE**  
3/4" = 1'-0"



**11 SECTION AT HIGH ROOF EDGE**  
3/4" = 1'-0"



**10 SECTION AT HIGH ROOF EDGE**  
3/4" = 1'-0"



**9 SECTION AT COLUMN OVER BEAM**  
3/4" = 1'-0"

2/1/2019 11:34:57 AM C:\Users\matt\Documents\Priv\Local Files\2181539 - Bank on Buffalo NF - STRUCT\_M\Main.svt

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**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

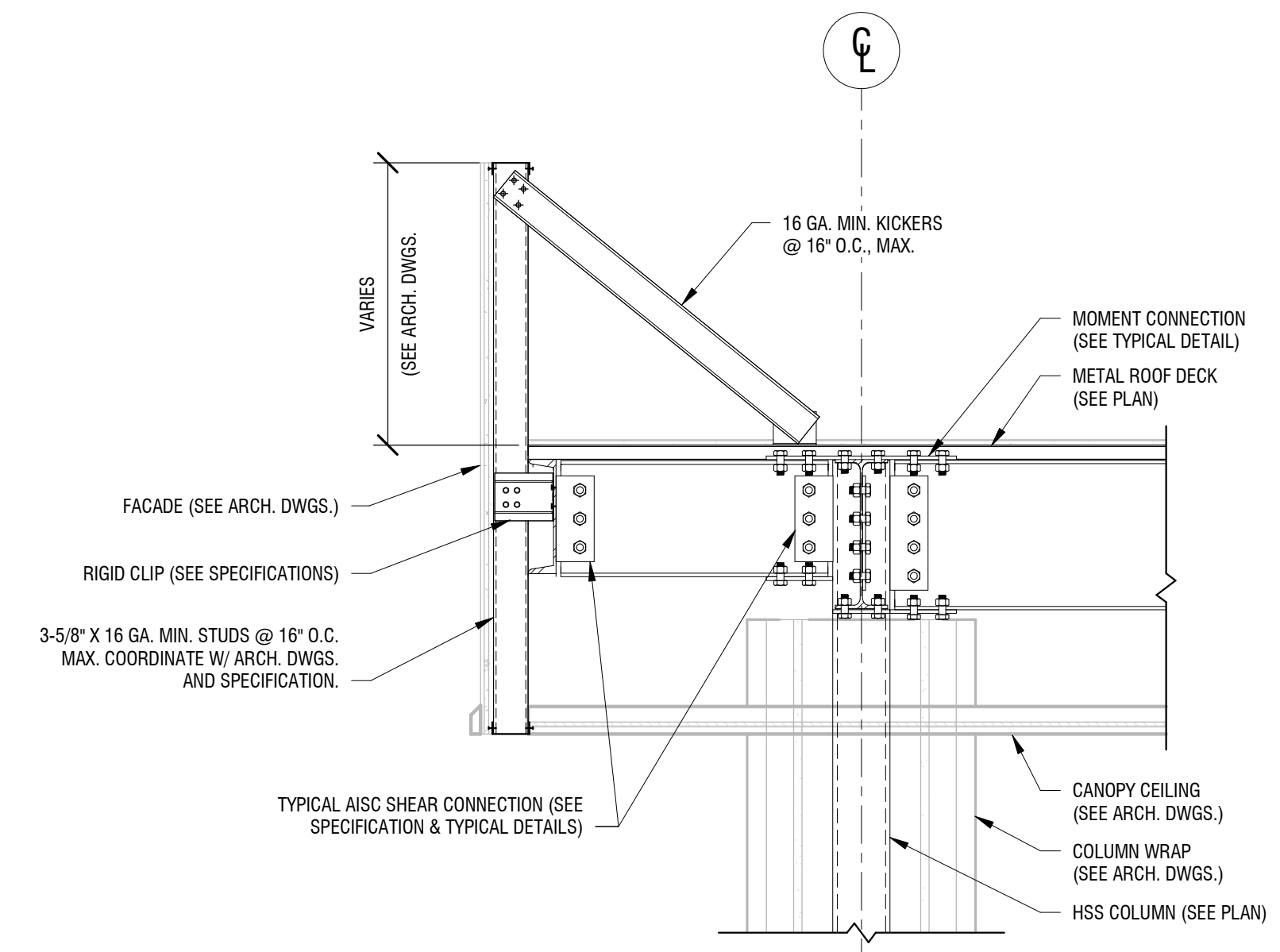
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2181539
DRAWN BY:		KRM
REVIEWED BY:		MCW
ISSUED FOR:		BID
DATE:		JANUARY 2019
DRAWING NAME:		

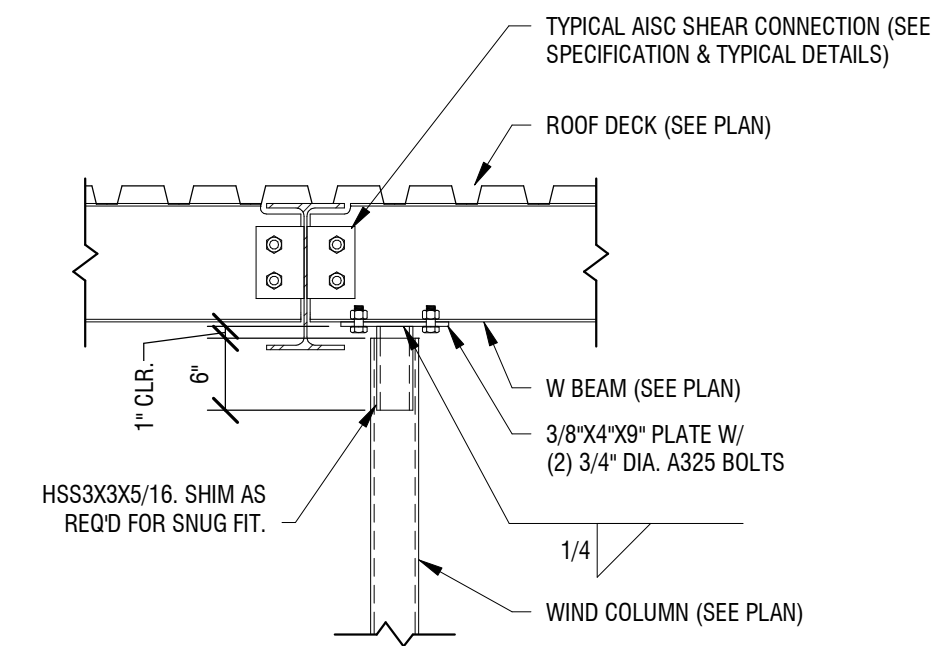
**FRAMING SECTIONS & DETAILS (2 OF 2)**

DRAWING NUMBER:

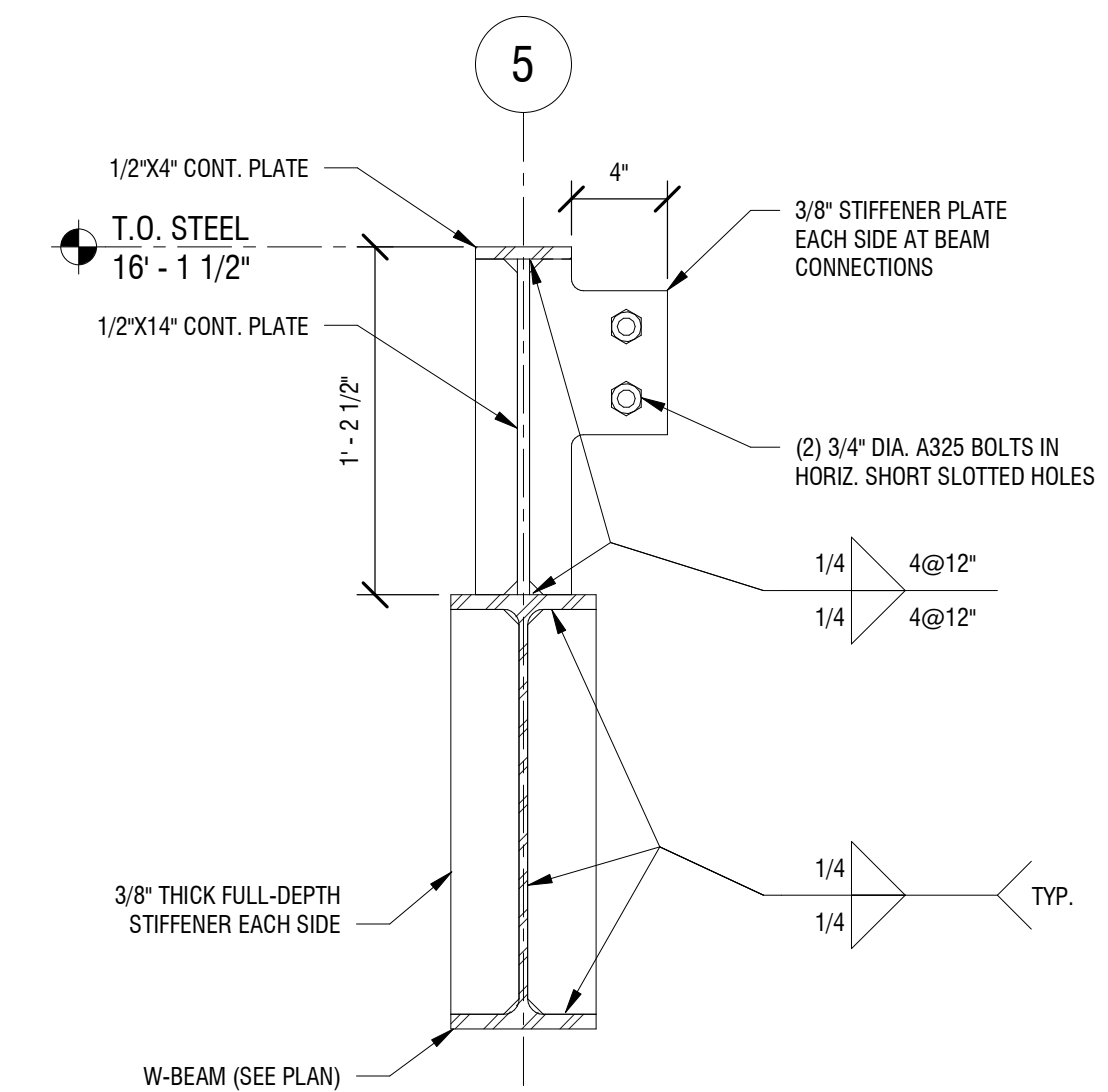
**S-403**



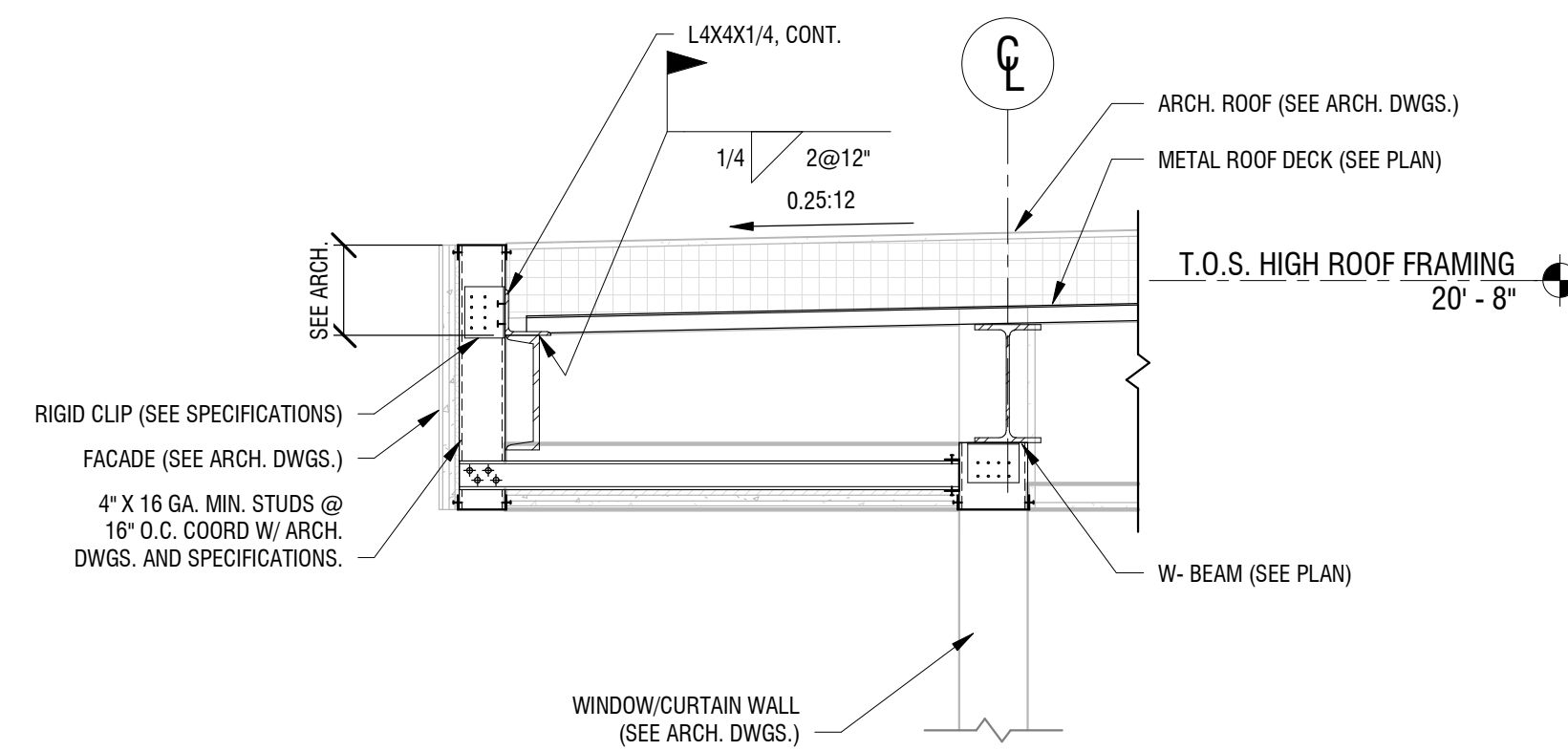
**2 SECTION AT DRIVE-THRU CANOPY ROOF EDGE**  
S-403 3/4" = 1'-0"



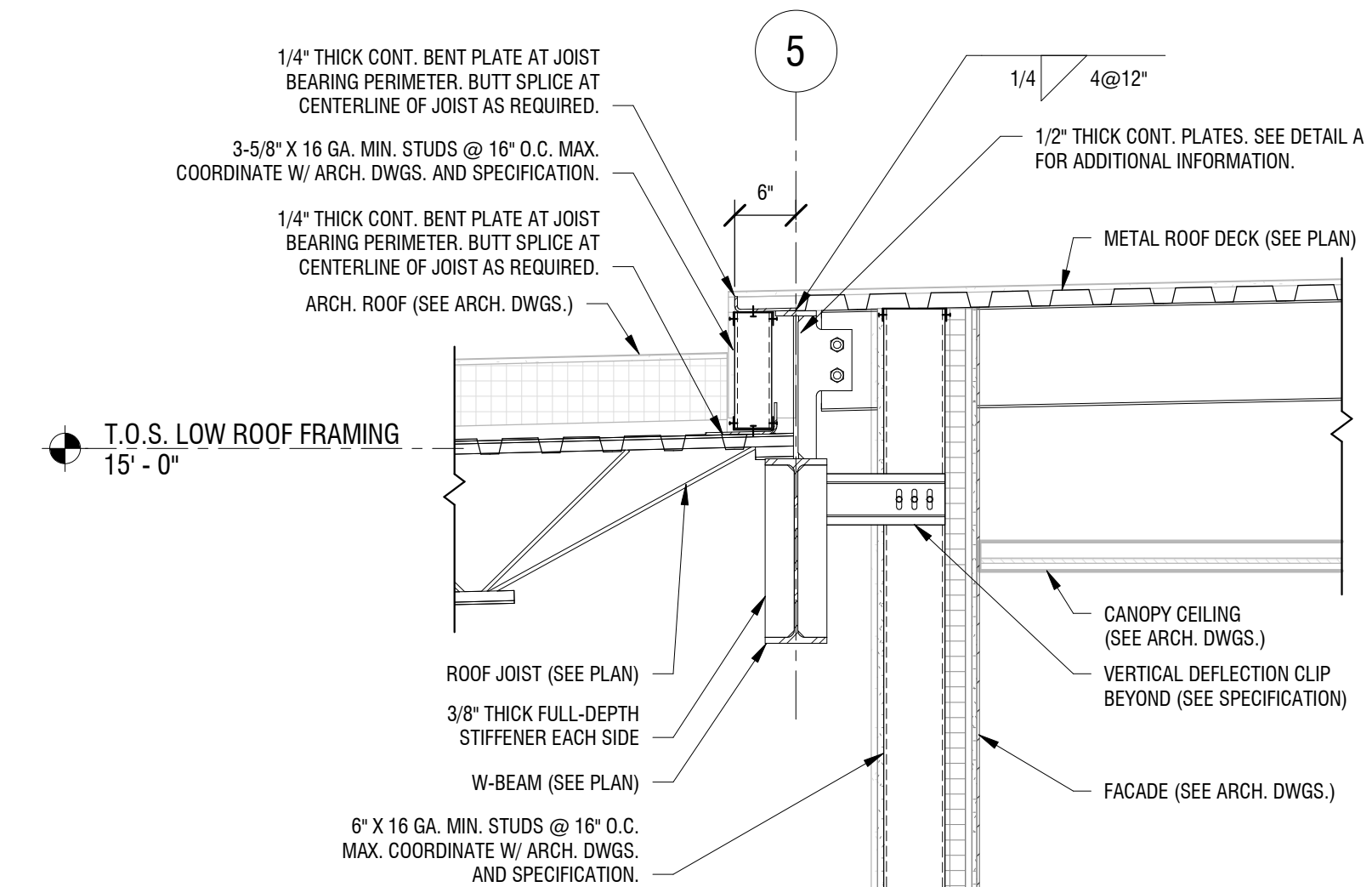
**5 WIND POST TOP CONNECTION DETAIL**  
S-403 3/4" = 1'-0"



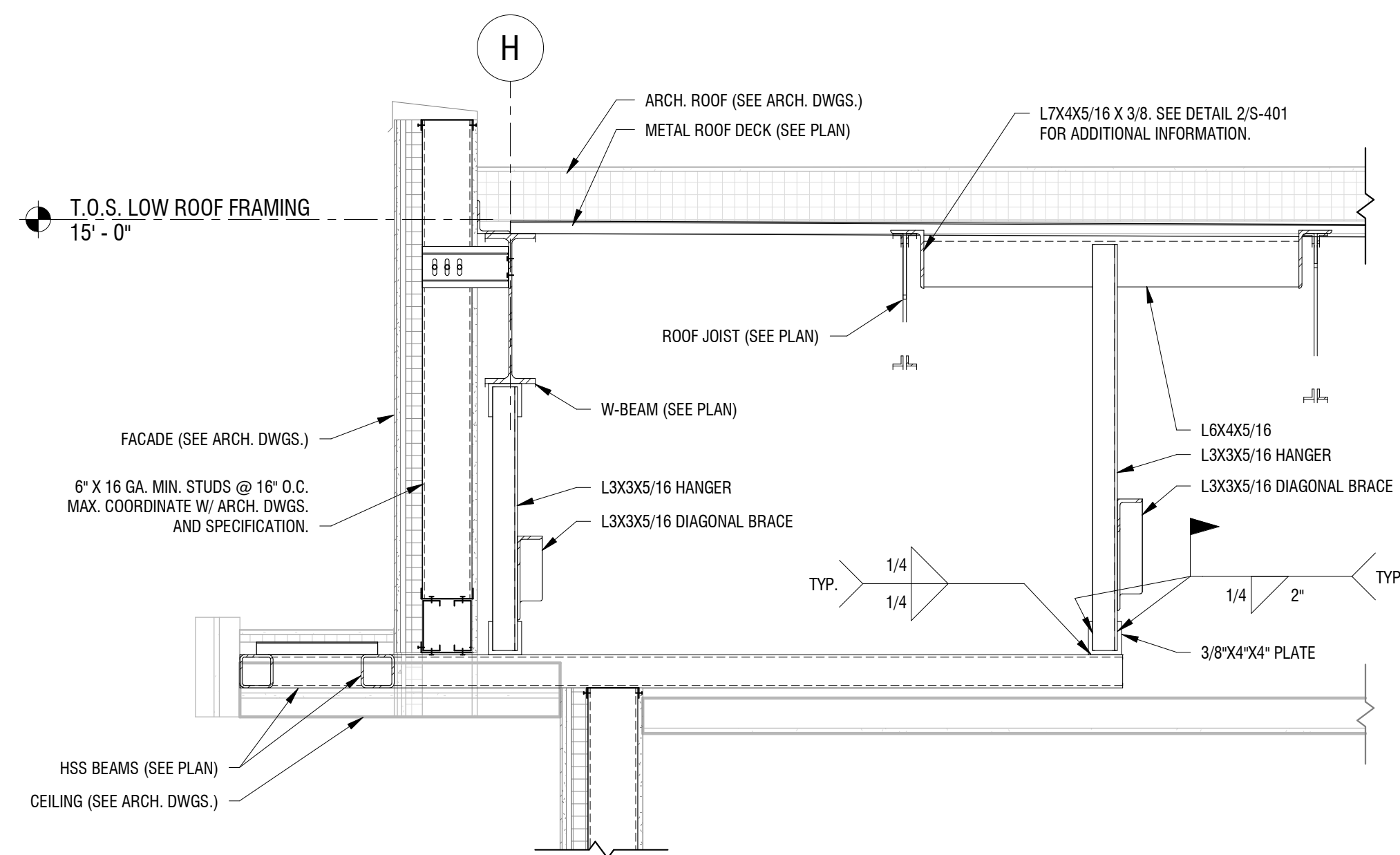
**DETAIL A**



**4 SECTION AT HIGH ROOF EDGE**  
S-403 3/4" = 1'-0"



**1 SECTION AT DRIVE-THRU CANOPY**  
S-403 3/4" = 1'-0"

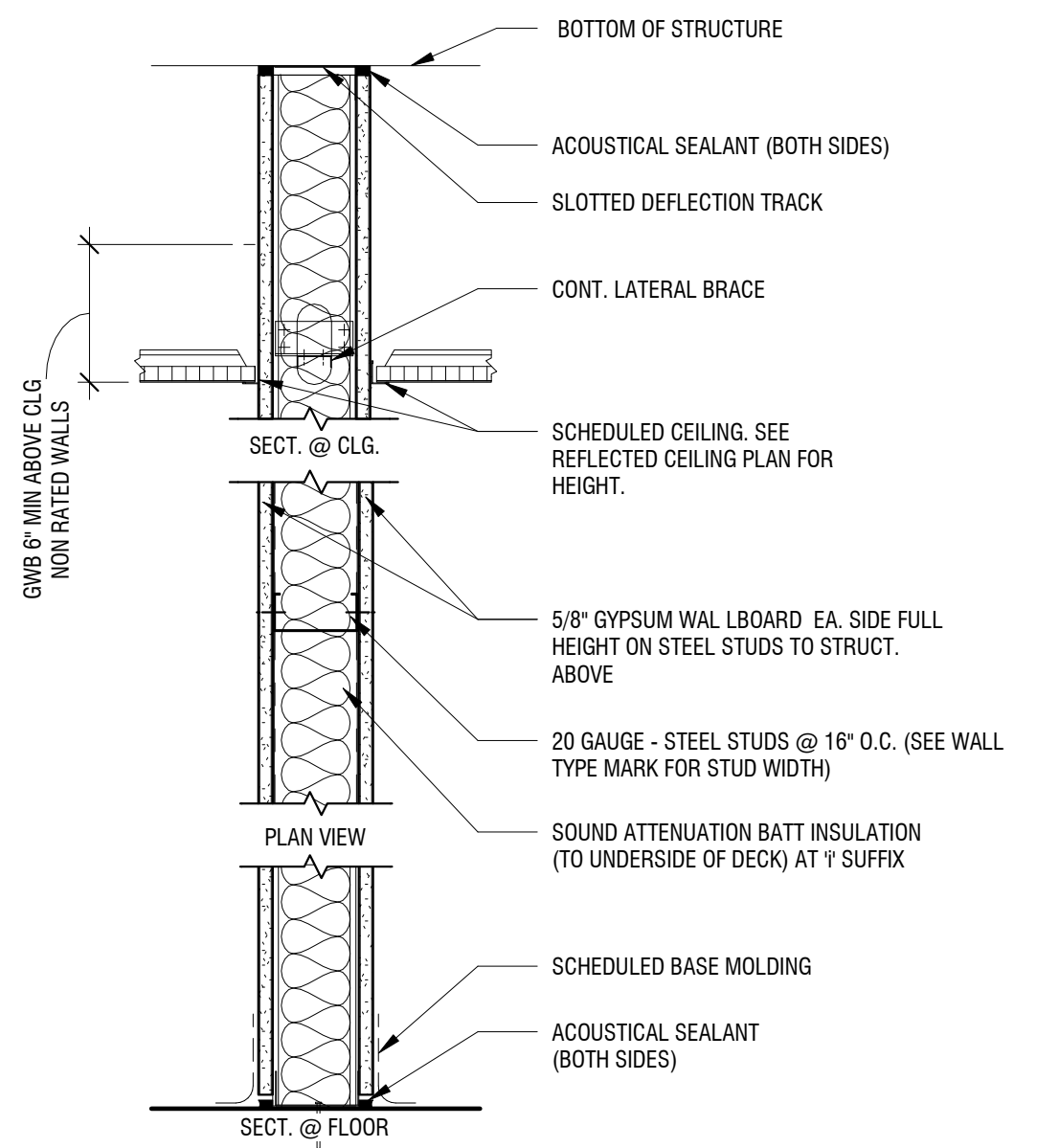


**3 SECTION AT WEST CANOPY**  
S-403 3/4" = 1'-0"

## GENERAL NOTES:

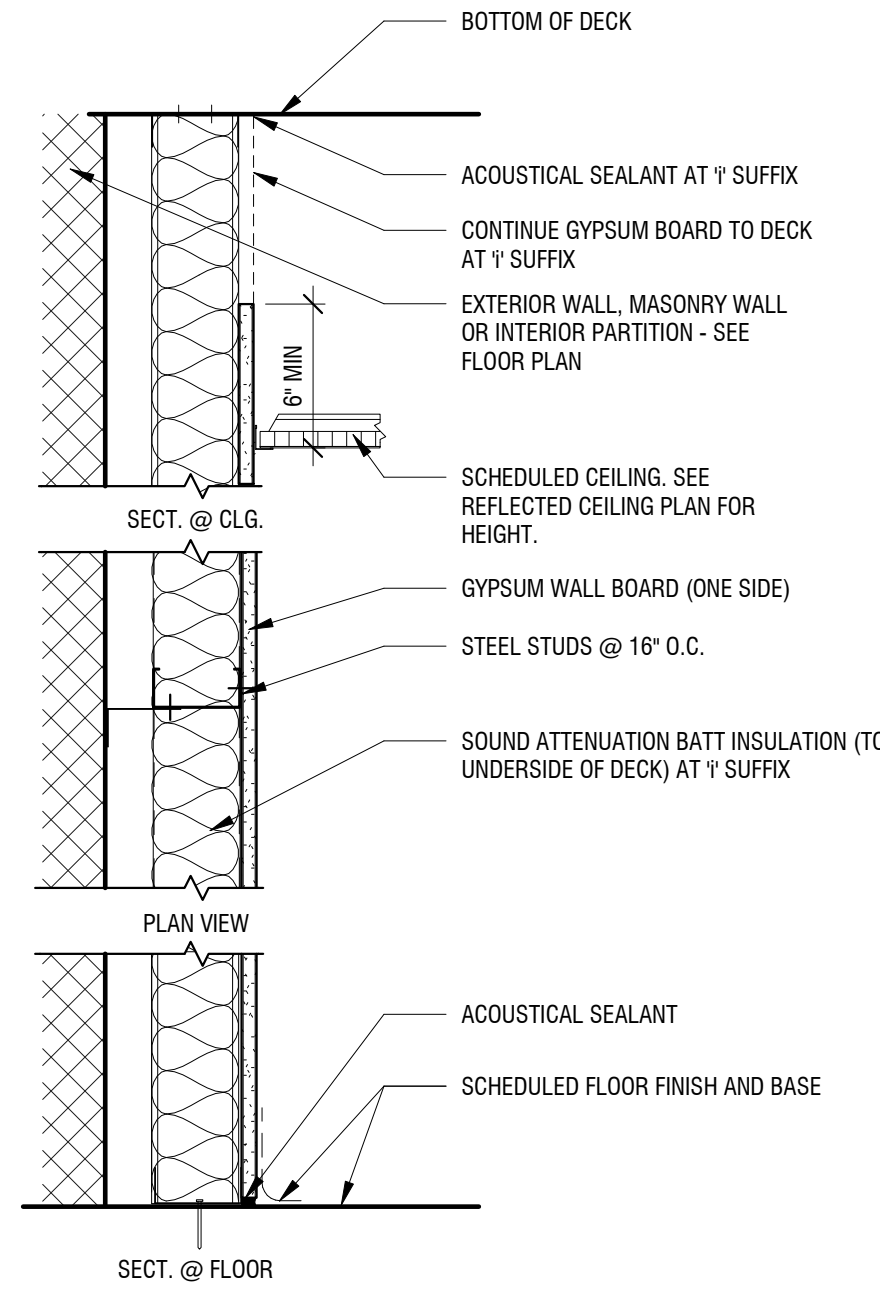
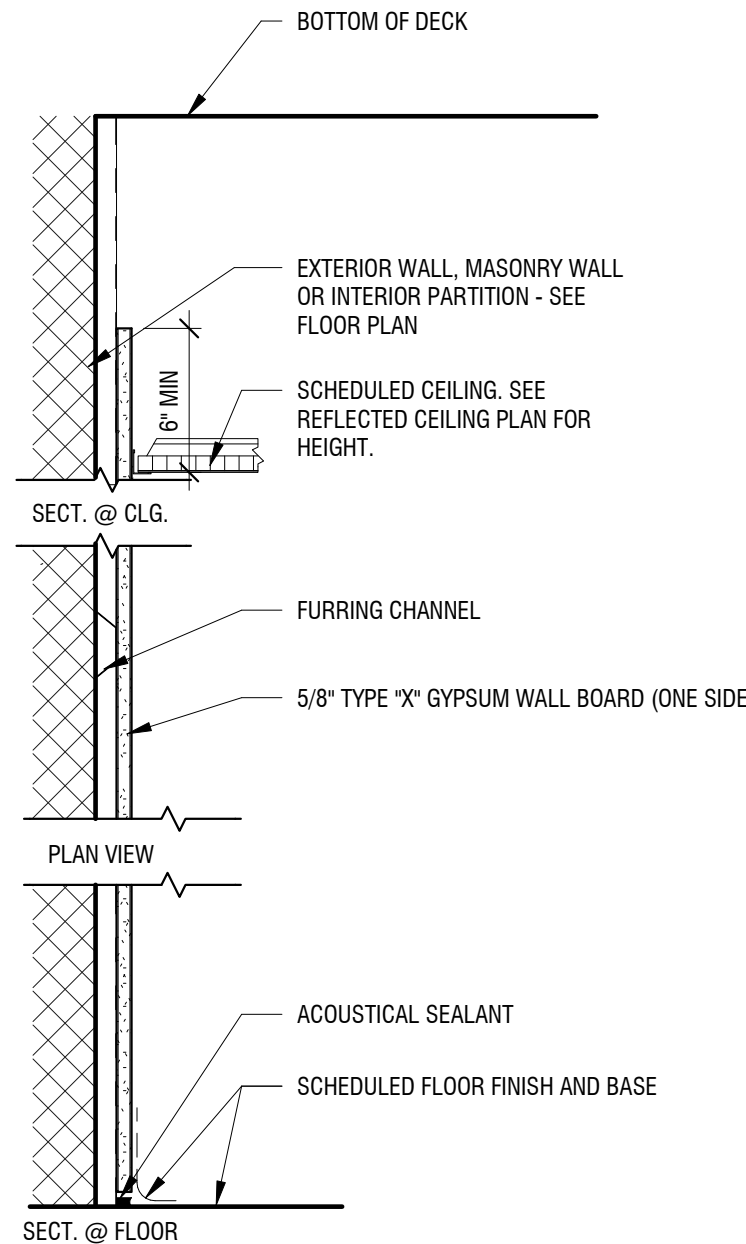
- THESE GENERAL NOTES SHALL APPLY TO ALL WORK & ALL DRAWINGS IN THIS SET & SHALL EXTEND TO ANY CHANGES, EXTRAS, OR ADDITIONS AGREED TO DURING THE COURSE OF THE WORK.
- BIDDERS ARE INSTRUCTED TO VISIT & INSPECT THE PREMISES PRIOR TO SUBMITTING THEIR PROPOSALS & TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED. NO SUBSEQUENT EXTRAS OR ADDITIONS WILL BE ALLOWED ON ANY CLAIM OF LACK OF KNOWLEDGE OF CONDITIONS OR CIRCUMSTANCES ABOUT WHICH THE BIDDER COULD HAVE INFORMED HIM/HERSELF. APPOINTMENTS SHALL BE ARRANGED THROUGH THE OWNERS REPRESENTATIVE.
- BIDDERS SHALL MAKE KNOWN TO THE OWNER ANY LIMITATIONS, EXCLUSIONS, OR MODIFICATIONS TO THE PROJECT DURING THE PROGRESS OF THE PROJECT, UNLESS NOTED THEY WILL BE PRESUMED INCLUDED BY THE OWNER.
- ALL CONTRACTORS INVOLVED IN THIS WORK SHALL CARRY PROPERTY DAMAGE & PUBLIC LIABILITY INSURANCE AS REQUIRED BY GOVERNMENTAL AGENCIES HAVING JURISDICTION & COMPLY WITH STATUTORY REQUIREMENTS FOR DISABILITY & WORKMENS COMPENSATION. THEY WILL COMPLY WITH ALL RULES & REGULATIONS DICTATED BY THE OWNER & THE CONDITIONS OF THE JOB. INSURANCE SHALL PROTECT THE OWNER & ANY OTHER GROUP TO BE NAMED FROM LIABILITY DUE TO THE CONTRACTORS NEGLIGENCE. A PROPERLY EXECUTED CERTIFICATE OF EXECUTED INSURANCE SHALL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
- DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS & ELEVATIONS. LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS. DIMENSIONS SHOWN ARE FROM FINISHED FACE OF GYPSUM BOARD, UNLESS NOTED OTHERWISE.
- THERE SHALL BE NO SUBSTITUTION OF MATERIALS WHERE A MANUFACTURER IS SPECIFIED, WHERE THE TERM "OR APPROVED EQUAL" IS USED. THE ARCHITECT ALONE SHALL DETERMINE THE EQUALITY BASED UPON THE INFORMATION SUBMITTED BY THE CONTRACTOR.
- THE GENERAL CONTRACTOR SHALL REVIEW ALL PLANS & SPECIFICATIONS & VERIFY ALL GOVERNING DIMENSIONS AT THE BUILDING PRIOR TO THE COMMENCEMENT OF WORK. HE SHALL EXAMINE ALL ADJOINING WORK OR AREAS UPON WHICH THE PERFORMANCE OF HIS/HER WORK IS IN ANY WAY DEPENDENT. ANY VARIATIONS OR DISCREPANCIES SHALL BE REPORTED WITH ALL DUE EXPEDIENCY TO THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION OF THE WORK IN QUESTION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXTENT, NATURE & SCOPE OF WORK DESCRIBED IN THE CONTRACT DOCUMENTS & WILL COORDINATE WITH THE OWNER, OR THE OWNERS REPRESENTATIVE, THE INTERFACING OF THE OWNERS WORK WITH THAT INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS TO PROVIDE ALL LABOR & MATERIALS NECESSARY TO EXECUTE ALL WORK AS SHOWN ON THESE DRAWINGS WITH THE EXCEPTION OF THOSE ITEMS NOTED AS SEPARATE CONTRACTS OR "I/C". HE/SHE SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH THAT OF ALL OTHER TRADES INCLUDING THOSE OPERATING UNDER SEPARATE CONTRACT WITH THE OWNER.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISTRIBUTION OR DRAWINGS TO ALL TRADES UNDER HIS/HER JURISDICTION.
- ANY INFORMATION REQUIRED BY THE CONTRACTORS THAT IS NOT SHOWN ON DRAWINGS OR OTHER CONTRACT DOCUMENTS SHALL BE REQUESTED BY THE GENERAL CONTRACTOR FROM THE ARCHITECT.
- THE CONTRACTORS SHALL COMPLY WITH THE RULES & REGULATIONS OF THE BUILDING AS TO THE HOURS OF AVAILABILITY OF ELEVATORS AND/OR LOADING DOCKS FOR THE PURPOSE OF DELIVERY & ALSO AS TO THE MANNER OF HANDLING MATERIALS, EQUIPMENT & DEBRIS, TO AVOID CONFLICT & INTERFERENCE WITH NORMAL BUILDING OPERATIONS.
- BEFORE COMMENCING WORK THE CONTRACTORS SHALL NOTIFY THE OWNER OF ANY AREAS THAT HAVE NOT BEEN SATISFACTORILY COMPLETED BY THE OWNER AND/OR THE PREVIOUS TENANT TO MEET THE BASE BUILDING REQUIREMENTS. (DUCTWORK, CONDITION OF SLAB, CONDITION OF CORE & DEMISING WALLS, UTILITY HOOK-UPS, ELECTRICAL PANELS, ETC.).
- THE CONTRACTOR SHALL NOT ACCEPT INSTRUCTION FROM PERSONNEL WITHOUT VERIFICATION FROM THE ARCHITECT AND/OR OWNER. CONTRACTOR WILL BE LIABLE FOR ANY EXPENSE CAUSED BY THE EXECUTION OF SUCH WORK WITHOUT SUCH VERIFICATION & FOR THE EXPENSES CAUSED BY ITS REMOVAL OR CORRECTION.
- GREAT CARE SHALL BE EXERCISED TO ASSURE THAT THE BUILDING SHALL BE PROTECTED FROM DAMAGE THAT COULD OCCUR BECAUSE OF THIS/HER WORK & CONTRACTORS SHALL PROVIDE PROTECTION FOR EXISTING AREAS & NEW WORK AREAS. ANY DAMAGES DUE TO THIS/HER WORK OR ACCIDENTS SHALL BE REPAIRED, REPLACED OR PATCHED AT THE DISCRETION OF THE OWNER AND/OR ARCHITECT THE CONTRACTOR SHALL BEAR FINANCIAL RESPONSIBILITY FOR SUCH DAMAGE & ANY WORK UNDERTAKEN TO CORRECT IT.
- THE CONTRACTOR SHALL EXERCISE GREAT CARE IN PROTECTING ALL MATERIALS EXISTING ON THE JOB FROM DAMAGE & SHALL MAINTAIN PROTECTION FOR ALL TRAFFIC AREAS OF THE BUILDING TO BE USED DURING THE EXECUTION OF WORK RELATING TO THIS/HER CONTACT WITH THE UNDERSTANDING THAT THE CONTRACTOR WILL RECTIFY ANY DAMAGE ATTRIBUTABLE TO HIS/HER OPERATIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR MISCELLANEOUS STEEL WORK, ALL WOODWORK, DOORS, FRAMES, HARDWARE, FINISHES & SUCH WORK AS MAY BE SPECIFICALLY REQUESTED IN THE CONTRACT DOCUMENTS TO THE ARCHITECT FOR WRITTEN APPROVAL. SHOP DRAWINGS SHALL SHOW ALL DIMENSIONS & CONDITIONS & SHALL BE SUBMITTED IN ELECTRONIC FORM. WHEN THE ARCHITECT REQUIRES THE REVISION & RESUBMITTAL OF SHOP DRAWINGS, SUCH RESUBMITTAL SHALL OCCUR WITHIN ONE (1) WEEK OF NOTIFICATION OF SUCH REQUIREMENT.
- ALL WORK SHALL BE PERFORMED BY SKILLED & QUALIFIED WORKMEN IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES INVOLVED. CARE SHALL BE TAKEN TO ENSURE COMPLIANCE WITH BUILDING REGULATIONS AND/OR GOVERNMENTAL LAWS, STATUTES, OR ORDINANCES CONCERNING THE USE OF UNION LABOR.
- ALL MATERIALS SHALL BE NEW, UNUSED & OF THE HIGHEST QUALITY IN EVERY RESPECT UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE ERECTED & INSTALLED PLUMB, LEVEL, SQUARE & TRUE & IN PROPER ALIGNMENT.
- MANUFACTURED MATERIALS & EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS & INSTRUCTIONS UNLESS OTHERWISE NOTED.
- WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE RULES & REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION & SHALL CONFORM TO ALL CITY, COUNTY, STATE & FEDERAL CONSTRUCTION, SAFETY & SANITARY LAWS, CODES, STATUTES & ORDINANCES. ANY DISCREPANCIES, VARIATIONS, OR OMISSIONS IN THE CONTRACT DOCUMENTS SHALL BE REPORTED PROMPTLY TO THE ARCHITECT IN WRITING.
- ALL FEES, TAXES, PERMITS, APPLICATIONS & CERTIFICATES OF INSPECTION & THE FILING OF ALL WORK WITH GOVERNMENTAL AGENCIES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- TIME IS OF THE ESSENCE & THE CONTRACTOR SHALL KEEP SUFFICIENT WORKMEN ON THE JOB SITE AT ALL TIMES TO PERFORM THE WORK IN THE MOST EXPEDITIOUS MANNER CONSISTENT WITH GOOD WORKMANSHIP, SOUND BUSINESS PRACTICE & THE BEST INTERESTS OF THE OWNER.
- SHOULD THE OWNER REQUEST WORK TO BE PERFORMED ON PREMIUM TIME ABOVE & BEYOND THAT IMPLIED BY THE CONTRACT DOCUMENTS, THE OWNER SHALL GIVE WRITTEN NOTICE & THE CONTRACTOR SHALL COMPLY THEREWITH.
- IT IS EXPECTED THAT SUFFICIENT LABOR WILL BE PROVIDED SO THAT ACTIVITY FOR ANY GIVEN TRADE WILL NOT BE LIMITED TO ONLY ONE PART OF THE TOTAL WORK AREA.
- EACH TRADE WILL BE EXPECTED TO PROCEED IN A FASHION THAT WILL NOT DELAY OR DETAIN THE TRADE FOLLOWING THEM.
- ALL WORK SHALL BE COMPLETED FOR THE AGREED CONTRACT PRICE WITHOUT RECOURSE TO LABOR STOPPAGES OR REVISIONS OF GOVERNING REGULATIONS, LAWS & CODES ABOUT WHICH THE CONTRACTOR COULD HAVE REASONABLY BEEN EXPECTED TO HAVE HAD FOREWARNING & TO HAVE MADE APPROPRIATE CONTINGENCY PLANS PRIOR TO THE SIGNING OF THE CONTRACT.
- THE CONTRACTOR SHALL NOT PROCEED WITH ANY ADDITIONAL WORK OR CHANGES FOR WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER OR ARCHITECT FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR SUCH EXTRA COMPENSATION.
- CUTTING, CHASING, DRILLING, OR DEMOLITION OF WALLS, SLABS, ETC. REQUIRING THE USE OF JACK HAMMERS OR OTHER HEAVY HAND OR POWER TOOLS SHALL BE PERFORMED AFTER REGULAR BUSINESS HOURS ON AN OVERTIME BASIS UNLESS THE LANDLORD & ANY AFFECTED TENANTS EXPRESSLY PERMIT IT, IN WRITTEN FORM.
- ALL WORK & MATERIALS SHALL BE GUARANTEED AGAINST DEFECTS IN DESIGN, WORKMANSHIP & MATERIALS FOR A PERIOD OF AT LEAST ONE (1) YEAR FROM THE OWNERS APPROVAL FOR FINAL PAYMENT.
- EACH CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS/HER OPERATIONS OR THE OPERATIONS OF THE OWNERS SEPARATE CONTRACTORS. CONTRACTOR SHALL COMPLY WITH HIS/HER OPERATIONS FOR REMOVAL TO SUCH METHODS AS MAY BE AGREEABLE TO THE OWNER. THE PROJECT SHALL BE LEFT CLEAN & CLEAR TO THE SATISFACTION OF THE OWNER AND /OR ARCHITECT & THE DISPOSITION OF ALL SALVAGED MATERIALS IS TO BE CLEARED WITH THE OWNER PRIOR TO REMOVAL. PREMISES TO BE SWEEPED CLEAN OF RELATED CONSTRUCTION DEBRIS DAILY.
- DURING THE COURSE OF CONSTRUCTION, INSTALLATION LOCATIONS SHALL BE RECORDED TO SCALE IN CONTRASTING INK ON THE DRAWINGS FOR ALL RUNS OF MECHANICAL & ELECTRICAL WORK INCLUDING SITE UTILITIES & CONCEALED DEVIATIONS FROM THE DRAWINGS. UPON COMPLETION OF THE PROJECT, INCLUDING THE PUNCH LIST, THIS/HER INFORMATION SHALL BE TRANSFERRED TO ELECTRONIC MEDIA (PDF FORMAT). THIS/HER SET SHALL BE MARKED "AS BUILT SET" & RETURNED TO THE OWNER WITH ONE (1) HARDCOPY & (1) DISK TO THE OWNER.
- IT IS INTENDED THAT EACH CONTRACTOR PROVIDE A COMPLETE JOB & ANY OMISSIONS IN THESE NOTES OR IN THE OUTLINE OF WORK SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF SUCH RESPONSIBILITIES AS ARE IMPLIED BY THE SCOPE OF THE WORK EXCEPT FOR ITEMS SPECIFICALLY NOTED.

- SHOULD ANY PORTION OF THE CONTRACT DOCUMENTS PROVE TO BE, FOR WHATEVER REASONS, UNENFORCEABLE, SUCH UN-ENFORCEABILITY SHALL NOT EXTEND TO THE REMAINDER OF THE CONTRACT NOR SHALL IT VOID ANY OTHER PROVISIONS THEREOF ARE DEPENDENT UPON THE UNENFORCEABLE PARTS FOR THEIR MEANING.
- THROUGHOUT THE DURATION OF THE PROJECT EACH CONTRACTOR SHALL REFRAIN FROM ACTIONS THAT COULD LEAD TO THE FILING OF A CLAIM OF LIEN AGAINST THE OWNER BY SUB-CONTRACTORS OR SUPPLIERS OF LABOR, MATERIALS, SERVICES, OR EQUIPMENT OR ANY OTHER INDIVIDUAL, COMPANY, OR ENTITY SO ENTITLED UNDER GOVERNING LAWS & REGULATIONS UNLESS HE CAN SHOW REASONABLE & JUSTIFIABLE CAUSE. APPROVAL FOR FINAL PAYMENT SHALL BE CONTINGENT UPON THE GENERAL CONTRACTORS OBTAINING & FURNISHING TO THE OWNER SIGNED RELEASES FROM SUCH INDIVIDUALS, COMPANIES, OR ENTITIES.
- PROVIDE IN-WALL WOOD BLOCKING AS REQUIRED AT ALL LOCATIONS WHERE ANY ITEMS ARE ATTACHED OR MOUNTED TO WALLS OR CEILINGS, INCLUDING BUT NOT LIMITED TO ALL MILLWORK, SHELVES, VIDEO DISPLAYS, WHITE BOARDS, ETC.
- CONTRACTOR SHALL PROVIDE BARRIERS, WARNING SIGNS, LIGHTS, ETC. AS REQUIRED MAINTAINING A HIGH LEVEL OF TEMPERED SAFETY IN AREAS ADJACENT TO THE SITE.
- THE CONTRACTOR IS REQUIRED TO COORDINATE SPECIAL INSPECTIONS WITH THE SPECIAL INSPECTOR SELECTED BY THE OWNER/ARCHITECT AND IS RESPONSIBLE TO COMPLY WITH ALL SPECIAL INSPECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT & CORRECT ANY DEVIATION OR DEFICIENCIES FOUND BY THE SPECIAL INSPECTOR IMMEDIATELY.
- THE DRAWINGS, SPECIFICATIONS, & OTHER DOCUMENTS FOR THIS PROJECT ARE INTENDED TO CONVEY THE DESIGN INTENT OF THE PROJECT. THE DRAWINGS ARE REPRESENTATIONAL IN NATURE & MAY NOT REFLECT ALL ITEMS NECESSARY TO PROVIDE A COMPLETE INSTALLATION. THE CONTRACTOR WILL COMPLETE THE SCOPE OF THE PROJECT IN COMPLIANCE WITH THE OWNER & DESIGN TEAM INTENT. ALL CONTRACTORS & SUB-CONTRACTORS ARE RESPONSIBLE FOR COMPLIANCE WITH ALL INFORMATION IN THE CONSTRUCTION DOCUMENTS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, THE CONTRACTOR SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO SUBMITTING A PROPOSAL FOR THE WORK.



### WALL TYPE S (METAL STUD)

	STUD SIZE	GAUGE	PARTITION WIDTH	FIRE TEST DESIGN NO.	FIRE RATING	STC	GYPSUM LAYERS EACH SIDE
S3.0	3 5/8"	20 GA	4 7/8"	--	NON-RATED	--	1x 5/8" + 1x 5/8"
S3.0d	3 5/8"	20 GA	6 1/8"	--	NON-RATED	--	2x 5/8" + 2x 5/8"
S6.0	6"	20 GA	7 1/4"	--	NON-RATED	--	1x 5/8" + 1x 5/8"
S6.0d	6"	20 GA	8 1/2"	--	NON-RATED	--	2x 5/8" + 2x 5/8"
S8.0	8"	20 GA	9 1/4"	--	NON-RATED	--	1x 5/8" + 1x 5/8"
S8.0d	8"	20 GA	10 1/2"	--	NON-RATED	--	2x 5/8" + 2x 5/8"



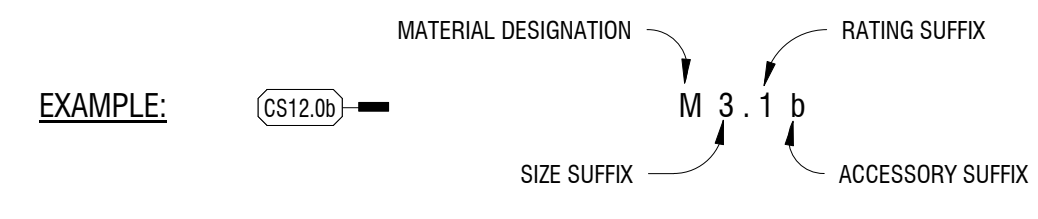
### WALL TYPE F

MARK	FURRING CHANNEL SIZE	PARTITION WIDTH	FIRE TEST DESIGN NO.	FIRE RATING	STC
F0.0	7/8"	1-1/2"	--	NON-RATED	--
F1.0	1 5/8"	2-1/4"	--	NON-RATED	--

### WALL TYPE F

MARK	STUD SIZE	GAUGE	PARTITION WIDTH	FIRE TEST DESIGN NO.	FIRE RATING	STC
F2.0	2 1/2"	18 GA	3 1/8"	--	NON-RATED	--
F3.0	3 5/8"	18 GA	4 1/4"	--	NON-RATED	--
F3.0i	3 5/8"	18 GA	4 1/4"	--	NON-RATED	43-45
F6.0	6"	18 GA	6 5/8"	--	NON-RATED	--

## PARTITION TYPE LEGEND



### MATERIAL DESIGNATION

- S** METAL STUDS @ 16" O.C., x REFER TO SPECS FOR GA./MIL THICKNESS
- M** CONCRETE MASONRY UNITS (CMU)
- MS** CONCRETE MASONRY UNITS SECURE (SECURITY CMU)
- F** METAL STUDS @ 12" O.C./ FURRING CHANNELS / HAT CHANNELS/ Z- FURRING CHANNELS x REFER TO SPECS FOR GA./MIL THICKNESS
- SH** SHAFT ASSEMBLY, METAL C-STUDS
- T** TEMPORARY BARRIERS, METAL STUDS x REFER TO SPECS FOR GA./MIL THICKNESS

### SIZE SUFFIX

- 1** 1 5/8" METAL STUDS, OR 7/8" / 1 1/2" HAT CHANNELS (SEE REMARKS)
- 2** 2 1/2" METAL STUDS OR 2" / 2 1/2" Z FURRING CHANNELS (SEE REMARKS)
- 3** 3 5/8" METAL STUDS
- 4** 4" CONCRETE MASONRY UNIT (CMU) OR 4" METAL STUDS
- 6** 6" CONCRETE MASONRY UNIT (CMU) OR 6" METAL STUDS
- 8** 8" CONCRETE MASONRY UNIT (CMU) OR 8" METAL STUDS
- 10** 10" CONCRETE MASONRY UNIT (CMU)
- 12** 12" CONCRETE MASONRY UNIT (CMU)

### RATING SUFFIX

- 0** NON-RATED CMU OR METAL STUD PARTITION
- 1** 1 HR RATED CMU OR METAL STUD PARTITION (PER UL DESIGN NO.)
- 2** 2 HR RATED CMU OR METAL STUD PARTITION (PER UL DESIGN NO.)
- 3** 3 HR RATED CMU OR METAL STUD PARTITION (PER UL DESIGN NO.)

### ACCESSORIES SUFFIX

- a** ABUSE RESISTANT GYPSUM WALL BOARD- REFER TO SPECIFICATIONS
- b** GYPSUM WALL BOARD/ACOUSTICAL INSULATION TO 8" ABOVE CEILING ON BOTH SIDES
- c** GYPSUM WALL BOARD TO 8" ABOVE CEILING ON BOTH SIDES
- d** (2) LAYERS OF GYPSUM WALL BOARD ON BOTH SIDES
- h** HALF WALL WITH CAP. COORDINATE WITH INTERIOR DRAWINGS.
- s** SMOKE PARTITION

## GENERAL PARTITION NOTES

- ALL PARTITIONS SHALL EXTEND FROM CONCRETE FLOOR TO METAL DECK ABOVE UNLESS OTHERWISE INDICATED.
- FILL FLUTES IN METAL DECK ABOVE PARTITION WITH FIRE SAFING INSULATION AND FIRE STOP ENTIRE PERIMETER AT RATED PARTITIONS, AND EXTERIOR WALLS WITH A UL LISTED JOINT SYSTEM FIRESTOP ASSEMBLY.
- PROVIDE DEFLECTION TRACKS AT METAL STUD PARTITIONS THAT TERMINATE AT THE UNDERSIDE OF STRUCTURE/ METAL DECK ABOVE.
- ALL NON-BEARING PARTITIONS SHALL BE CONSTRUCTED TO LIMIT DEFLECTION TO L/360 OF THE SPAN WITH UNIFORM 5 PSF HORIZONTAL LOADING.
- ALL PENETRATIONS IN FIRE RATED PARTITIONS TO BE FIRE STOPPED AND SEALED.
- ALL PARTITIONS SHALL BE SEALED TO PREVENT PASSAGE OF SMOKE.
- CONTRACTOR TO REFER TO CODE/LIFE SAFETY DRAWINGS FOR RATED PARTITIONS.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS AND AREAS TO RECEIVE WALL TILE, REFER TO SPECIFICATION IN PROJECT MANUAL.
- REFER TO STRUCTURAL DRAWINGS FOR MASONRY WALL REINFORCEMENT.
- PROVIDE DOUBLE FRAMING AT ALL DOOR, WINDOW AND CASED OPENINGS JAMBS AND HEAD CONDITIONS.
- FOR ALL PARTITIONS, COORDINATE AND PROVIDE BLOCKING FOR ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL WOODWORK, FINISH CARPENTRY, TOILET PARTITIONS AND ACCESSORIES, EQUIPMENT, HANDRAILS, HARDWARE AND SIMILAR MOUNTED ITEMS.

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## BANK ON BUFFALO



## NEW COMMUNITY BRANCH - NIAGARA FALLS

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **JMR**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

DATE: **25 JAN 2019**

DRAWING NAME:

## GENERAL NOTES & PARTITION TYPES

DRAWING NUMBER:

**A002**

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**BANK ON BUFFALO**

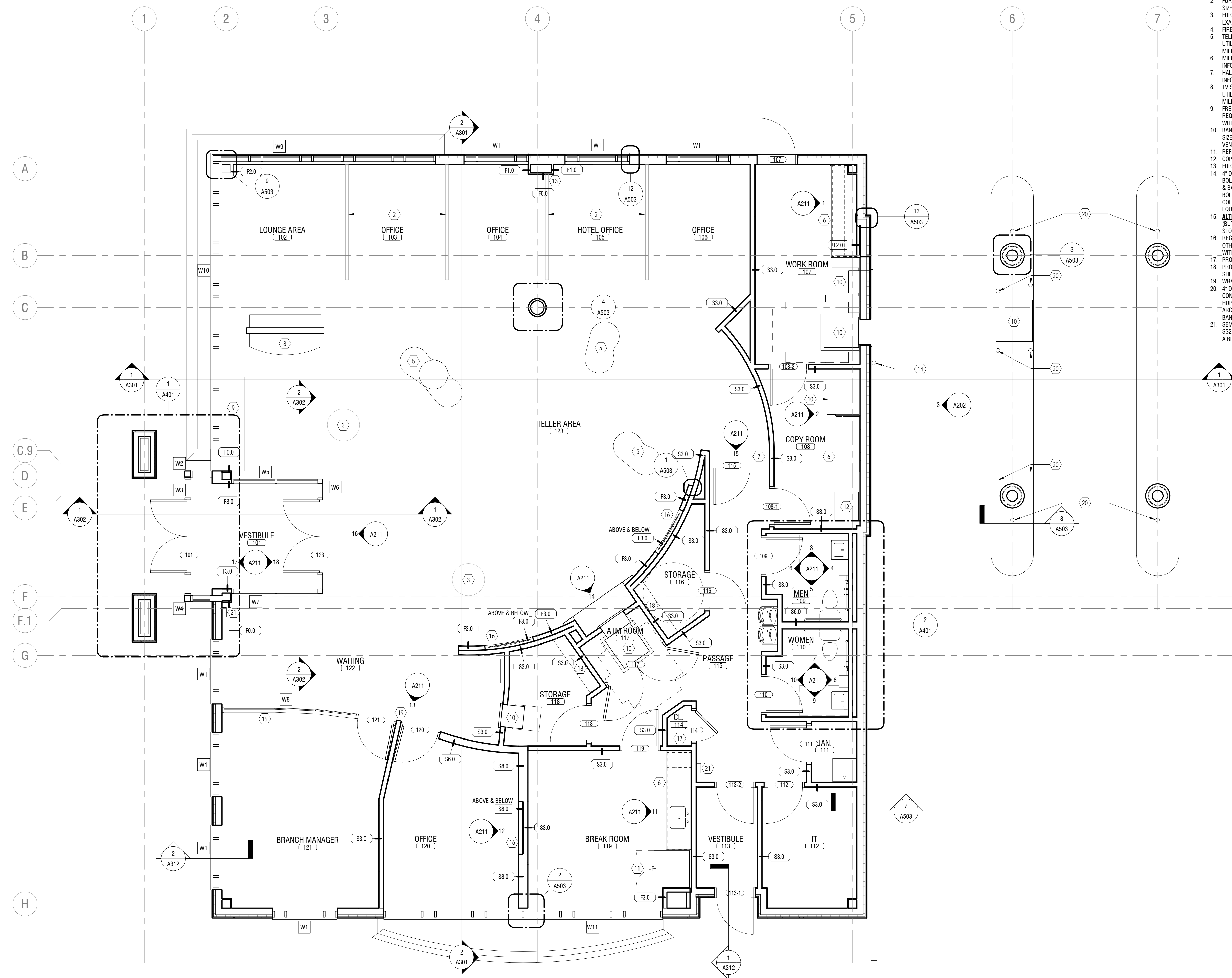


**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

**FLOOR PLAN NOTES:**

1. PROVIDE SPRAY APPLIED LEVEL 5 FINISH. USG TUFF HIDE OR APPROVED EQUAL.
2. FURNITURE WALL BY OWNER'S SEPARATE VENDOR. COORDINATE UTILITY CONNECTIONS, SIZE, EXACT LOCATION, & INSTALLATION IN FIELD WITH OWNER'S FURNITURE VENDOR.
3. FURNITURE BY OWNER'S SEPARATE VENDOR. COORDINATE UTILITY CONNECTIONS, SIZE, EXACT LOCATION, & INSTALLATION IN FIELD WITH OWNER'S FURNITURE VENDOR.
4. FIRE EXTINGUISHER & SEMI-RECESSED CABINET. MOUNT BOTTOM OF CABINETS AT 18" AFF.
5. TELLER PODS BY OWNER'S SEPARATE VENDOR. COORDINATE EQUIPMENT REQUIREMENTS, UTILITY CONNECTIONS, SIZE, EXACT LOCATION, & INSTALLATION IN FIELD WITH OWNER'S MILLWORK VENDOR.
6. MILLWORK BY GC, SEE INTERIOR ELEVATIONS & MILLWORK SECTIONS FOR MORE INFORMATION.
7. HALF HEIGHT MILLWORK WALL W/ GATE. SEE MILLWORK DETAILS FOR MORE INFORMATION.
8. TV STAND BY OWNER'S SEPARATE VENDOR. COORDINATE EQUIPMENT REQUIREMENTS, UTILITY CONNECTIONS, SIZE, EXACT LOCATION, & INSTALLATION IN FIELD WITH OWNER'S MILLWORK VENDOR.
9. FREESTANDING COUNTER BY OWNER'S SEPARATE VENDOR. COORDINATE EQUIPMENT REQUIREMENTS, UTILITY CONNECTIONS, SIZE, EXACT LOCATION, & INSTALLATION IN FIELD WITH OWNER'S MILLWORK VENDOR.
10. BANK EQUIPMENT BY OWNER'S SEPARATE VENDOR. COORDINATE UTILITY CONNECTIONS, SIZE, EXACT LOCATION, & INSTALLATION IN FIELD WITH OWNER'S BANK EQUIPMENT VENDOR.
11. REFRIGERATOR SUPPLIED BY OWNER & INSTALLED BY GC.
12. COPIER/PRINTER SUPPLIED BY OWNER & INSTALLED BY GC.
13. FLUR OUT AROUND COLUMN & ROOF DRAIN PIPING AS REQD.
14. 4" DIA. SCH. 40 STEEL BOLLARD W/ BASE PLATE BOLTED DOWN TO CONCRETE ISLAND. BOLT DOWN W/ MIN. (2) 1/2" DIA. HILT-HI200 STAINLESS STEEL ANCHORS. BOLLARD & BASE PLATE TO BE SHOP PRIMED. BASE PLATE TO BE FINISH PAINTED TO MATCH BOLLARD COVER. PROVIDE HOPE BOLLARD COVER BY IDEALSHIELD OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT. COORDINATE EXACT LOCATION IN FIELD W/ BANK EQUIPMENT & OWNER'S BANK EQUIPMENT VENDOR.
15. ALTERNATE 1: PROVIDE & INSTALL LIGHTLINE MOVEABLE ARCHITECTURAL GLASS WALL (BUTT GLAZED) BY KI W/ PWOT HINGED DOOR & 1/2" LAMINATED GLASS IN LIEU OF ALUM. STOREFRONT FRAMING & 3/8" GLAZING. BUTT GLAZED.
16. RECESSED NICHE FOR TV. SEE DETAILS FOR MORE INFORMATION. TV TO BE SUPPLIED BY OTHERS & INSTALLED BY GC. COORDINATE FINAL SIZE, LOCATION & UTILITY CONNECTIONS WITH OWNER'S SEPARATE VENDOR.
17. PROVIDE & INSTALL HARDWOOD ROD & MELAMINE SHELF.
18. PROVIDE & INSTALL SHELVING STANDARDS, SUPPORT BRACKETS & (5) PLASTIC LAMINATE SHELVES.
19. WRAP END OF PARTITION W/ .042 ALUM. TO MATCH ALUM. FRAMING.
20. 4" DIA. CONCRETE FILLED, SCH. 40 STEEL BOLLARD SET IN 18" DIA. CONCRETE BASE. CONCRETE BASE TO BE MIN. 36" BELOW GRADE. BOLLARD TO BE SHOP PRIMED. PROVIDE HOPE BOLLARD COVER BY IDEALSHIELD OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT. COORDINATE EXACT LOCATION IN FIELD W/ BANK EQUIPMENT & OWNER'S BANK EQUIPMENT VENDOR IF NOT DIMENSIONED.
21. SEMI-RECESSED FIRE EXTINGUISHER CABINET. LARSEN ARCHITECTURAL SERIES MODEL SS2409-SR (1-1/2" SQUARE TRIM) W/ SOLID DOOR, STAINLESS STEEL TRIM & DOOR, & TYPE A BLACK LETTERING. TOP OF CABINET TO BE MOUNTED AT 48" AFF.



**1 FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

2/5/2019 4:20:22 PM C:\Users\jamesh\Documents\21151539 Bank on Buffalo NF Arch\_splan1sh1.rvt

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER:	2181539
DRAWN BY:	SP
REVIEWED BY:	RJN
ISSUED FOR:	BID SET
DATE:	25 JAN 2019
DRAWING NAME:	

**FIRST FLOOR PLAN**

DRAWING NUMBER:

**A101**

**NOT FOR CONSTRUCTION**

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**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

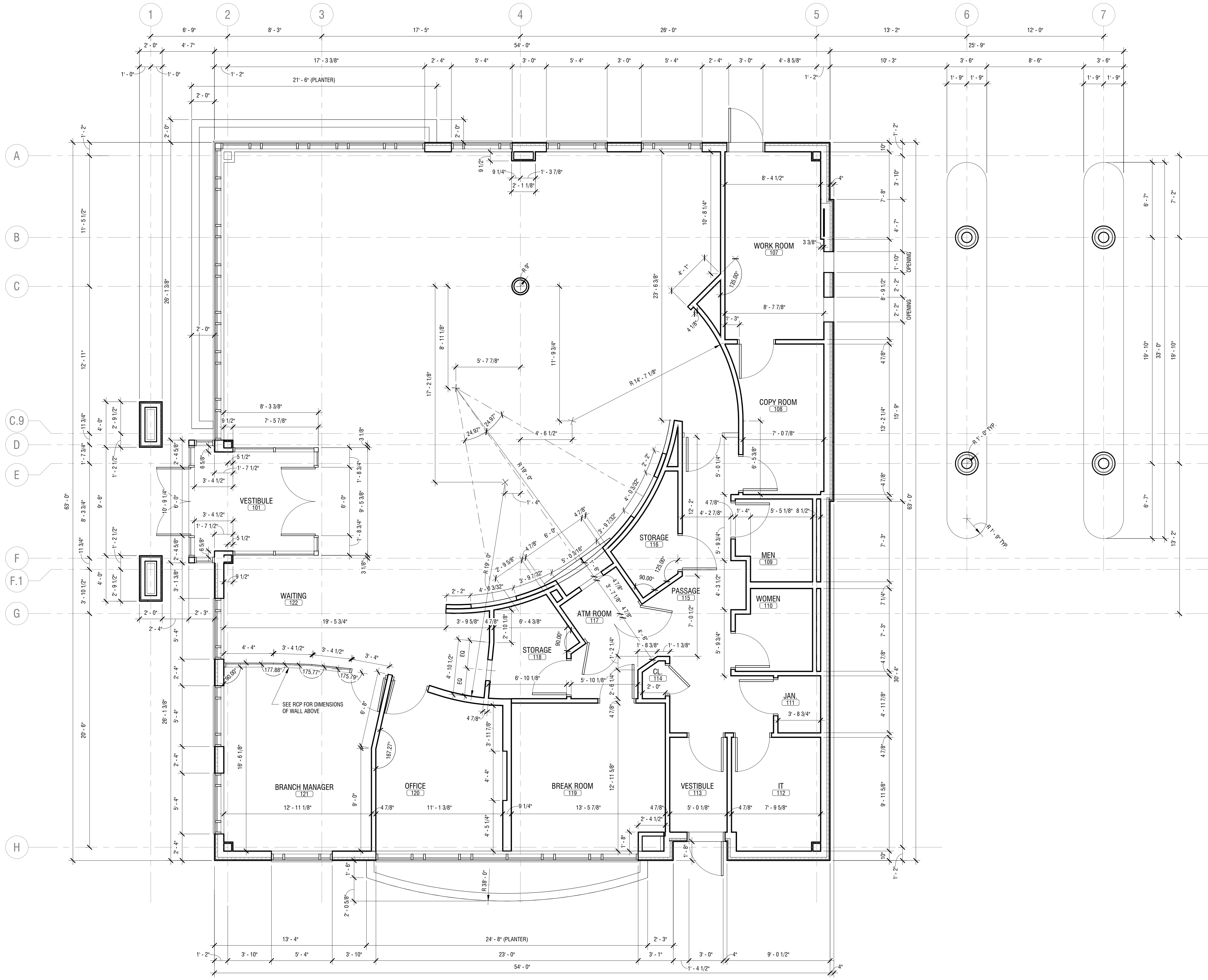
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2181539
DRAWN BY:		JMR
REVIEWED BY:		RJN
ISSUED FOR:		BID SET
DATE:		25 JAN 2019
DRAWING NAME:		

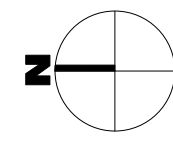
**FIRST FLOOR PLAN - DIMENSIONS**

DRAWING NUMBER:

**A102**



**1 FIRST FLOOR PLAN - DIMENSIONS**  
SCALE: 1/4" = 1'-0"



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

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NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **SP**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

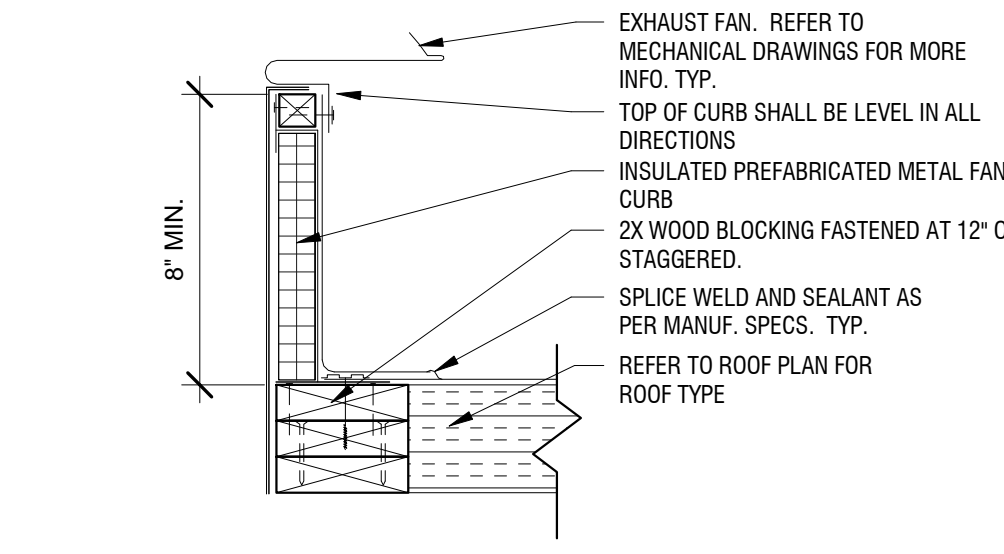
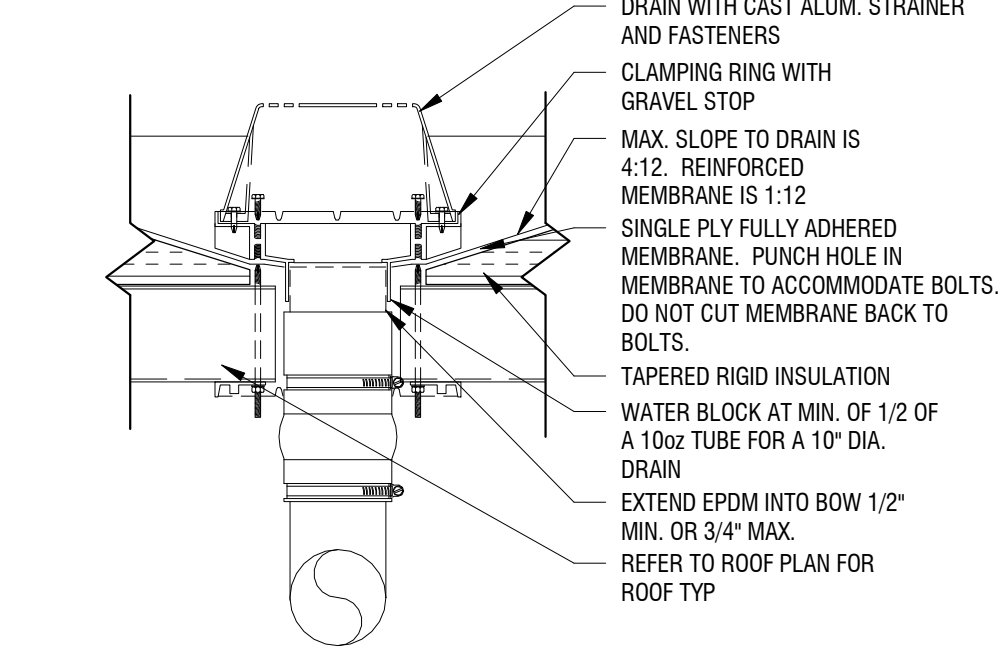
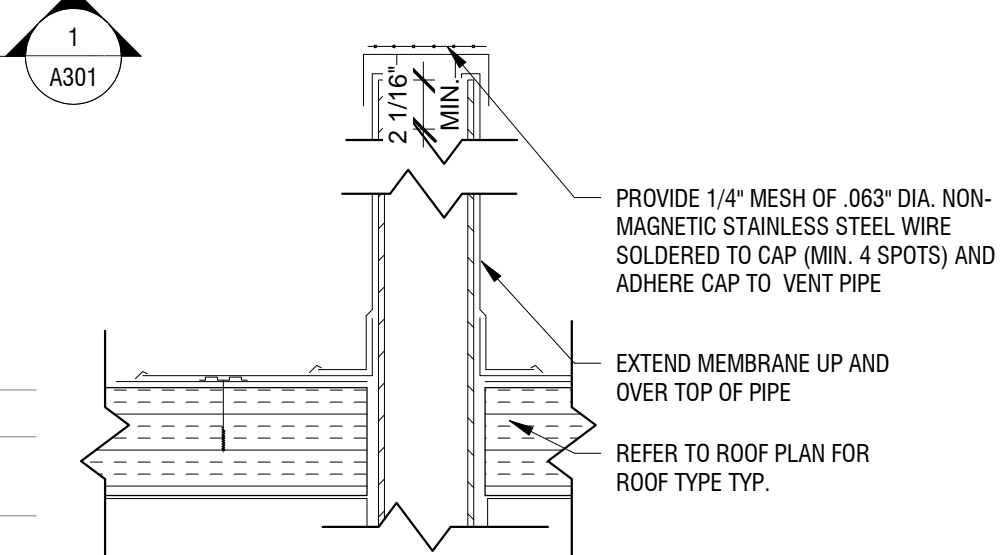
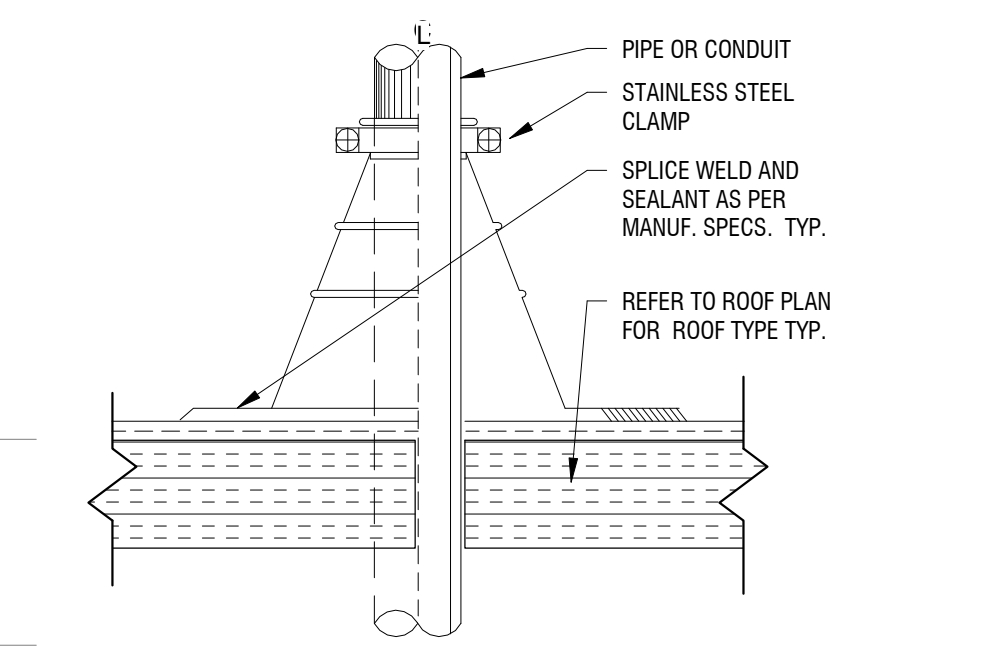
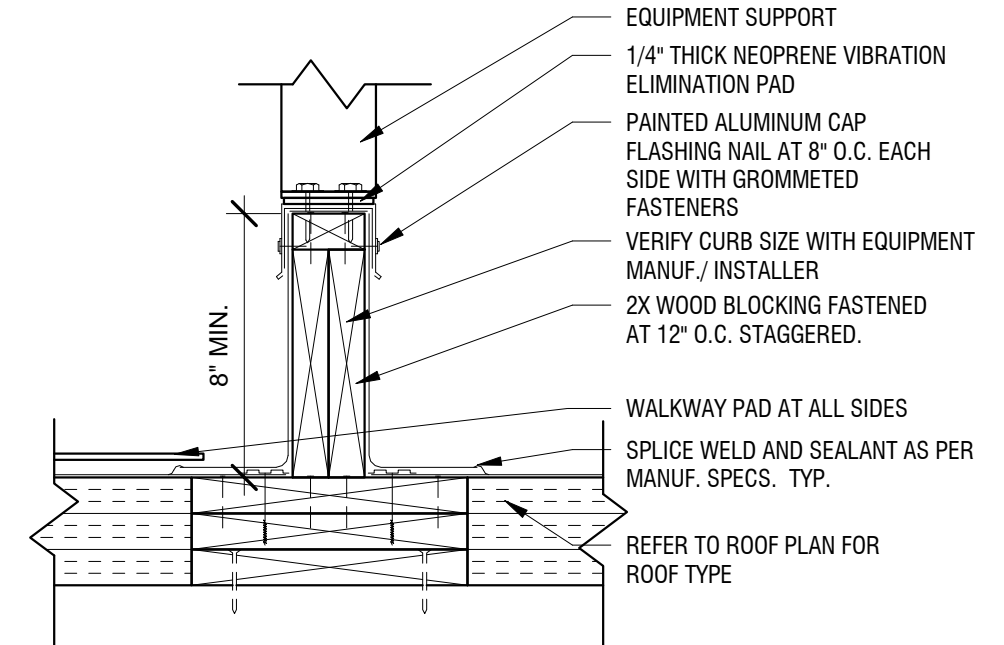
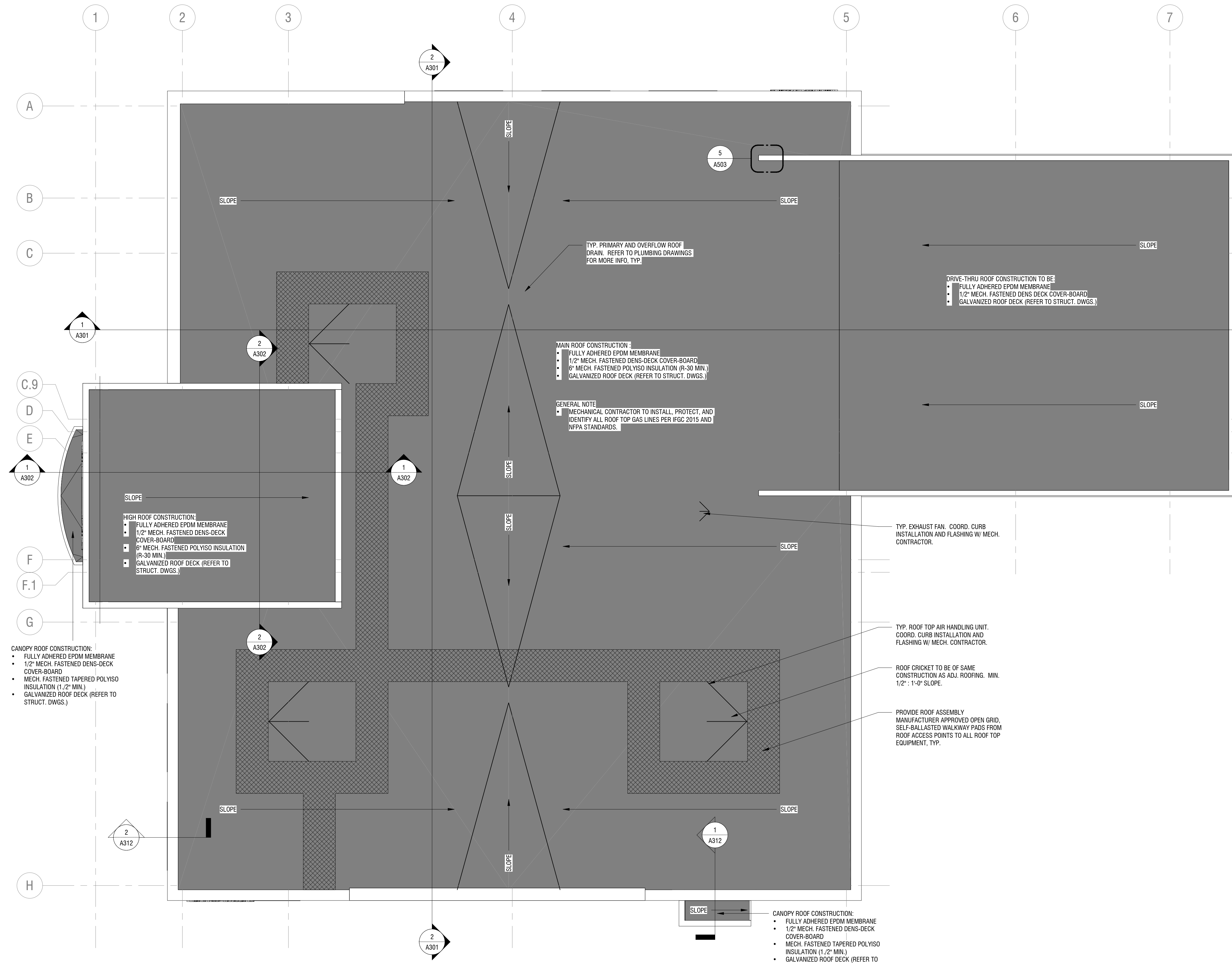
DATE: **25 JAN 2019**

DRAWING NAME:

**ROOF PLANS & DETAILS**

DRAWING NUMBER:

**A103**



NOT FOR CONSTRUCTION

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

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NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2181539
DRAWN BY:		SP
REVIEWED BY:		RJN
ISSUED FOR:		BID SET
DATE:		25 JAN 2019
DRAWING NAME:		

**FIRST FLOOR REFLECTED CEILING PLAN**

DRAWING NUMBER:

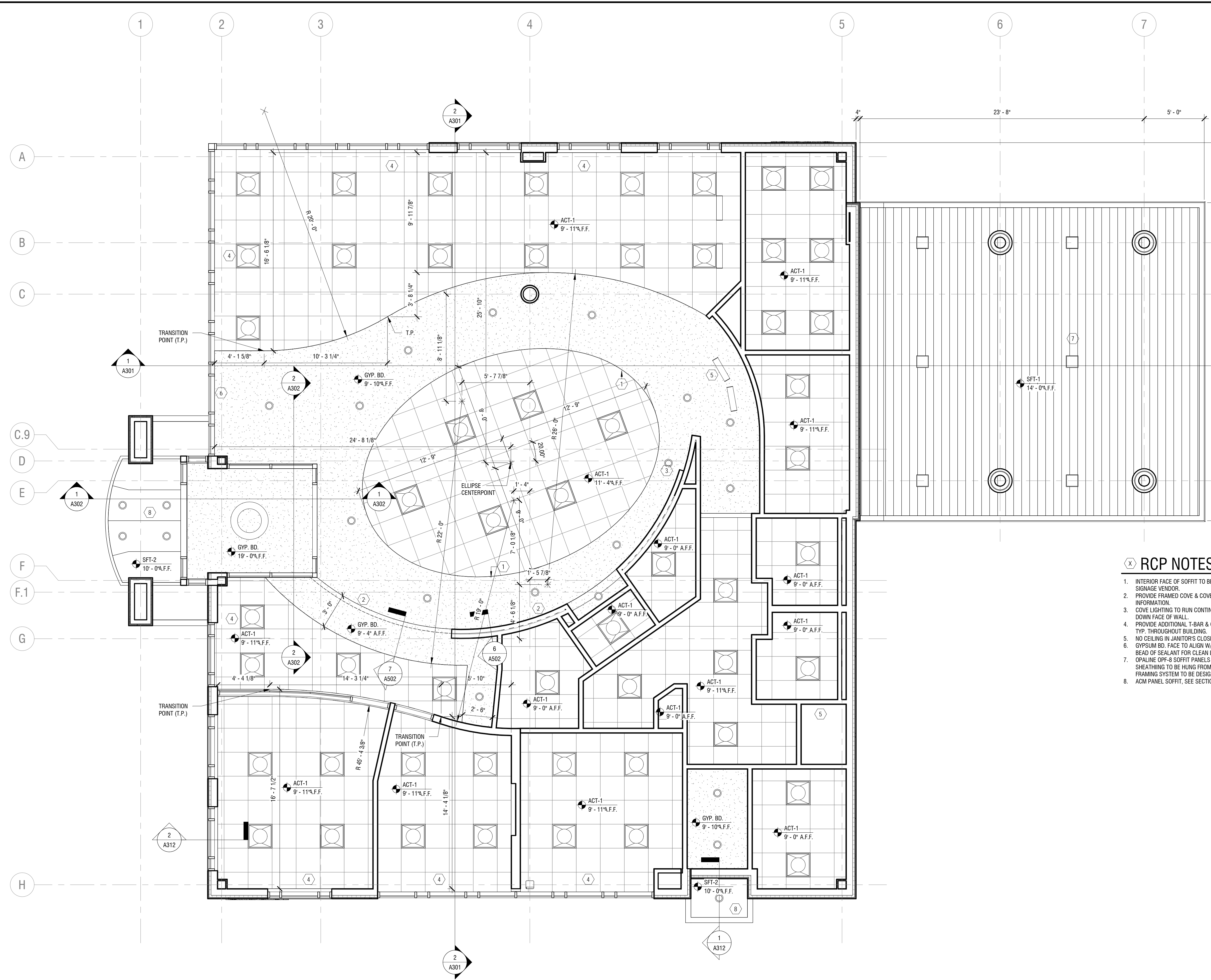
**A111**

**RCP LEGEND:**

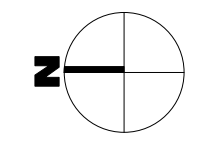
- LIGHTING - RECESSED CEILING FIXTURE (REFER TO ELECTRICAL DRAWINGS FOR TYPE)
- LIGHTING - PENDENT FIXTURE (REFER TO ELECTRICAL DRAWINGS FOR TYPE)
- LIGHTING - SURFACE MOUNTED (REFER TO ELECTRICAL)
- LIGHTING - RECESSED WALL WASH FIXTURE (LETTER DESIGNATION TYPE)
- LIGHTING - RECESSED CAN FIXTURE (LETTER DESIGNATION TYPE)
- SINGLE FACE EXIT SIGN (REFER TO ELECTRICAL)
- DOUBLE FACE EXIT SIGN (REFER TO ELECTRICAL)
- HVAC SUPPLY (REFER TO MECHANICAL)
- HVAC RETURN (REFER TO MECHANICAL)
- LINEAR DIFFUSER - SEE MECHANICAL DRAWINGS
- CEILING FINISH TAG & HEIGHT. REFER TO INTERIOR DWGS FOR COLOR & FINISH LEGEND

**(X) RCP NOTES:**

1. INTERIOR FACE OF SOFFIT TO BE FINISHED & PRIMED FOR INSTALLATION OF GRAPHIC BY OWNER'S SIGNAGE VENDOR.
2. PROVIDE FRAMED COVE & COVE LIGHTING. SEE DETAILS & ELECTRICAL DRAWINGS FOR MORE INFORMATION.
3. COVE LIGHTING TO RUN CONTINUOUS FROM HORIZONTAL COVE AT TO POW WALL TO VERTICAL COVE DOWN FACE OF WALL.
4. PROVIDE ADDITIONAL T-BAR & CUT ACOUSTICAL CEILING TILES FOR LINEAR DIFFUSERS @ WINDOWS, TYP. THROUGHOUT BUILDING.
5. NO CEILING IN JANITOR'S CLOSET FOR WATER HEATER ACCESS.
6. GYPSUM BD. FACE TO ALIGN W/ BOTTOM EDGE OF CURTAIN WALL FRAMING. PROVIDE J-MOLD & BEAD OF SEALANT FOR CLEAN LINES.
7. OPALINE OPF-8 SOFFIT PANELS BY ATAS. SEE SECTIONS FOR MORE INFORMATION. SOFFIT PANELS & SHEATHING TO BE HUNG FROM EXTERIOR SUSPENDED FRAMING SYSTEM BY USG. SUSPENDED FRAMING SYSTEM TO BE DESIGNED FOR MIN. 30# UPLIFT.
8. ACM PANEL SOFFIT. SEE SECTIONS & DETAILS FOR MORE INFORMATION.



**1 FIRST FLOOR REFLECTED CEILING PLAN**  
SCALE: 1/4" = 1'-0"







NOT FOR CONSTRUCTION

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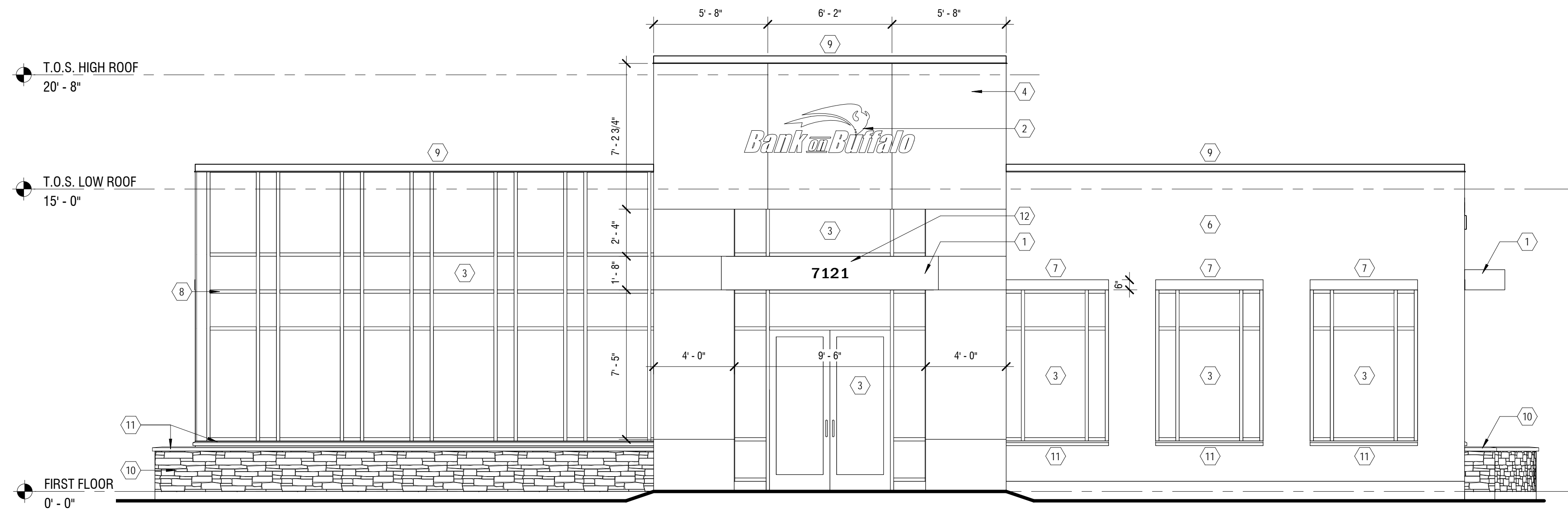


**NEW COMMUNITY BRANCH - NIAGARA FALLS**

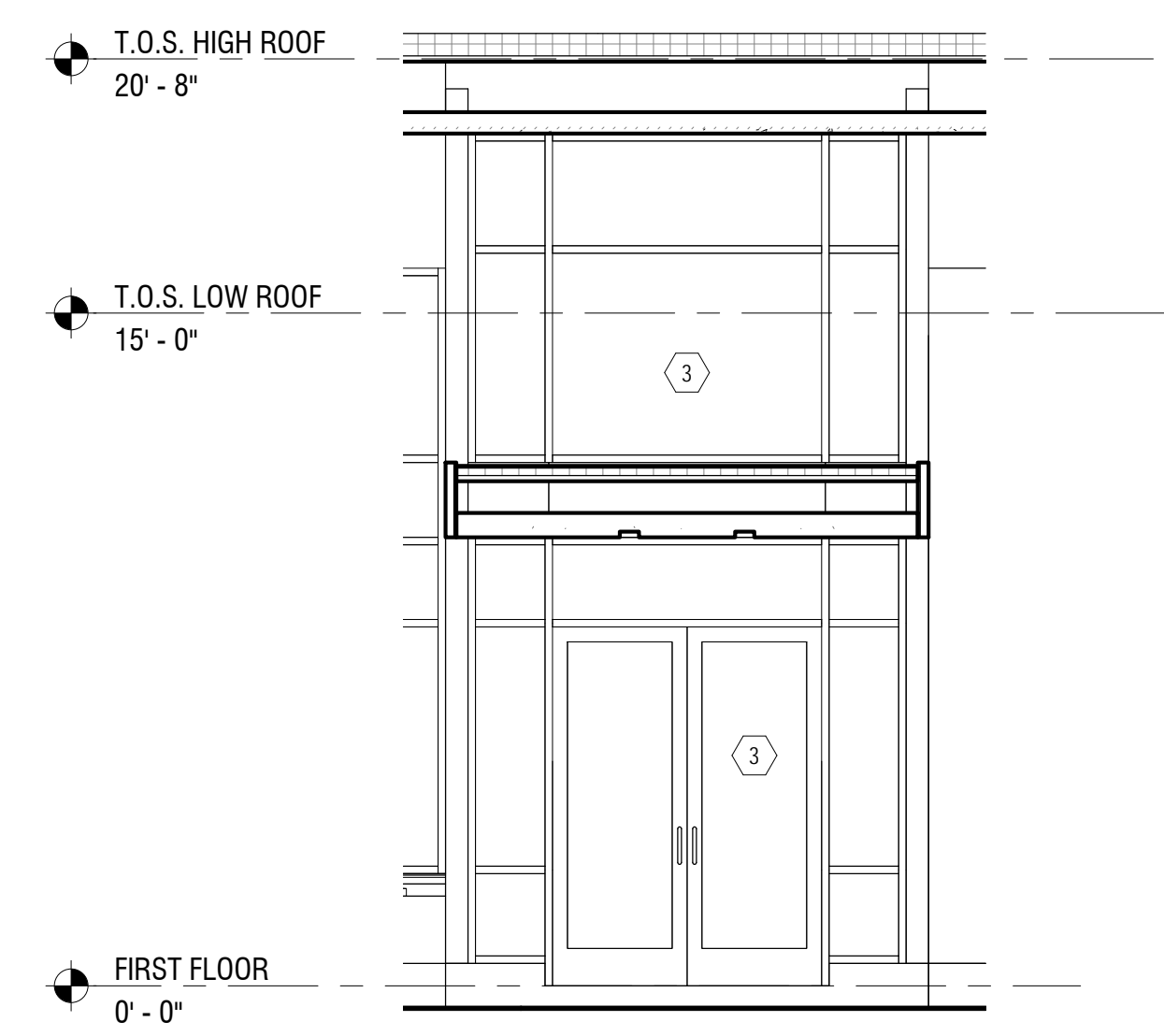
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

**ELEVATION NOTES:**

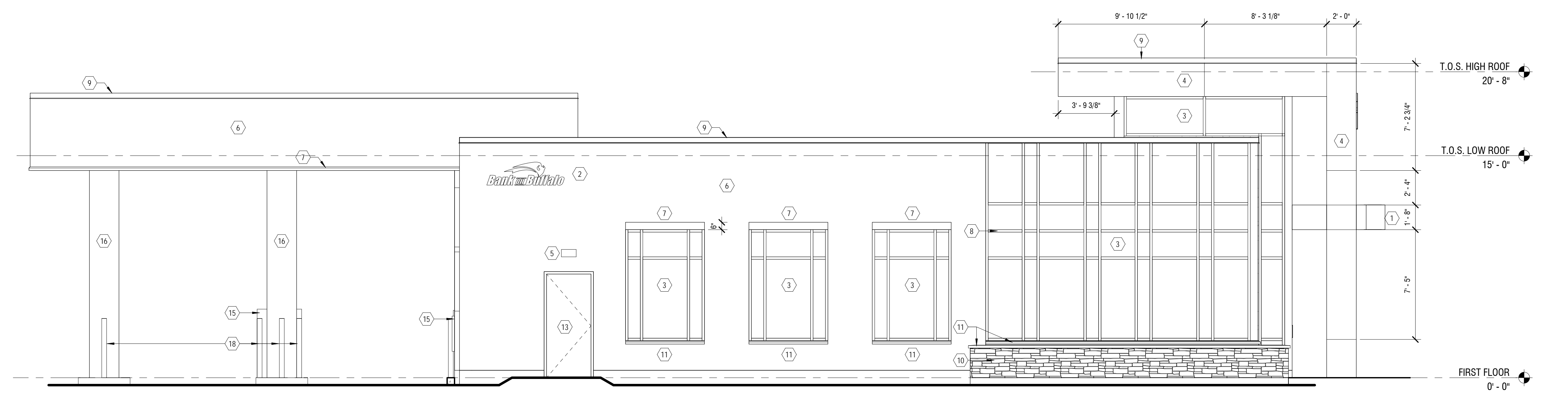
1. CANOPY - 4MM ACM (ALPOLIC) PANEL, ROUT & RETURN RAINSCREEN SYSTEM. SEE DETAILS FOR JOINT LAYOUT & ADDITIONAL INFORMATION. COLOR TO BE BBR RED.
2. LIT BANK SIGNAGE BY OWNER'S SEPARATE VENDOR. COORDINATE POWER, BLOCKING, LOCATION, & INSTALLATION REQUIREMENTS W/ OWNER'S BANK SIGNAGE VENDOR.
3. THERMALLY BROKEN CLEAR ANODIZED CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. SEE DOOR & WINDOW ELEVATIONS & DETAILS FOR MORE INFORMATION.
4. DIRECT APPLIED 8MM DEKTON PANELS. JOINT PATTERN AS INDICATED. SEE SECTIONS & DETAILS FOR MORE INFORMATION.
5. EXTERIOR LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
6. PORCELAIN TILE, SEE SECTIONS, DETAILS, & FINISH LEGEND FOR MORE INFORMATION. PROVIDE STAINLESS STEEL SCHLUTER EDGE @ OPENINGS, CORNERS & TRANSITIONS.
7. ALUM. TRIM BAND, COLOR TO MATCH ACM PANEL. SEE SECTIONS & DETAILS FOR MORE INFORMATION.
8. CUSTOM COLOR CURTAIN WALL CAP. COLOR TO MATCH ACM PANEL. COLOR FOR THIS HORIZONTAL ONLY. BACK MULLION TO BE CLEAR ANODIZED.
9. ALUM. COPING, SEE SECTIONS & DETAILS FOR MORE INFORMATION.
10. EL DORADO MOUNTAIN LEDGE ADHERED MASONRY VENEER. SEE SECTIONS & DETAILS FOR MORE INFORMATION.
11. CUSTOM PRECAST SILL/CAP. SEE SECTIONS & DETAILS FOR MORE INFORMATION.
12. THREE DIMENSIONAL RAISED LETTER SIGN BY OWNER'S SIGNAGE VENDOR. COORDINATE INSTALLATION W/ SIGN VENDOR.
13. INSULATED METAL DOOR & FRAME, PAINT PER FINISH SCHEDULE & SPECIFICATIONS.
14. 4" DIA. SCH. 40 STEEL BOLLARD W/ BASE PLATE BOLTED DOWN TO CONCRETE ISLAND. BOLT DOWN W/ MIN. (2) 1/2" DIA. HILTI HIT-HY200 STAINLESS STEEL ANCHORS. BOLLARD & BASE PLATE TO BE SHOP PRIMED. BASE PLATE TO BE FINISH PAINTED TO MATCH BOLLARD COVER. PROVIDE HDPE BOLLARD COVER BY IDEALSHIELD OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT. COORDINATE EXACT LOCATION IN FIELD W/ BANK EQUIPMENT & OWNER'S BANK EQUIPMENT VENDOR.
15. BANK EQUIPMENT BY OWNER'S SEPARATE VENDOR. COORDINATE UTILITY CONNECTIONS, SIZE, EXACT LOCATION, & INSTALLATION IN FIELD WITH OWNER'S BANK EQUIPMENT VENDOR.
16. 4MM ACM (ALPOLIC) COLUMN COVER, RAINSCREEN SYSTEM. SEE DETAILS FOR JOINT LAYOUT & ADDITIONAL INFORMATION. COLOR TO BE MICA MNC CLEAR.
17. OWNER PROVIDED OUTDOOR DRIVE THRU SIGNAGE, GC TO INSTALL.
18. 4" DIA. CONCRETE FILLED, SCH. 40 STEEL BOLLARD SET IN 18" DIA. CONCRETE BASE. CONCRETE BASE TO BE MIN. 36" BELOW GRADE. BOLLARD TO BE SHOP PRIMED. PROVIDE HDPE BOLLARD COVER BY IDEALSHIELD OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT. COORDINATE EXACT LOCATION IN FIELD W/ BANK EQUIPMENT & OWNER'S BANK EQUIPMENT VENDOR IF NOT DIMENSIONED.



**1 NORTH ELEVATION**  
A201 SCALE: 1/4" = 1'-0"



**3 NORTH ELEVATION - ENTRY**  
A201 SCALE: 1/4" = 1'-0"



**2 EAST ELEVATION**  
A201 SCALE: 1/4" = 1'-0"

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **SP**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

DATE: **25 JAN 2019**

DRAWING NAME:

**EXTERIOR ELEVATIONS**

DRAWING NUMBER:

**A201**

NOT FOR CONSTRUCTION

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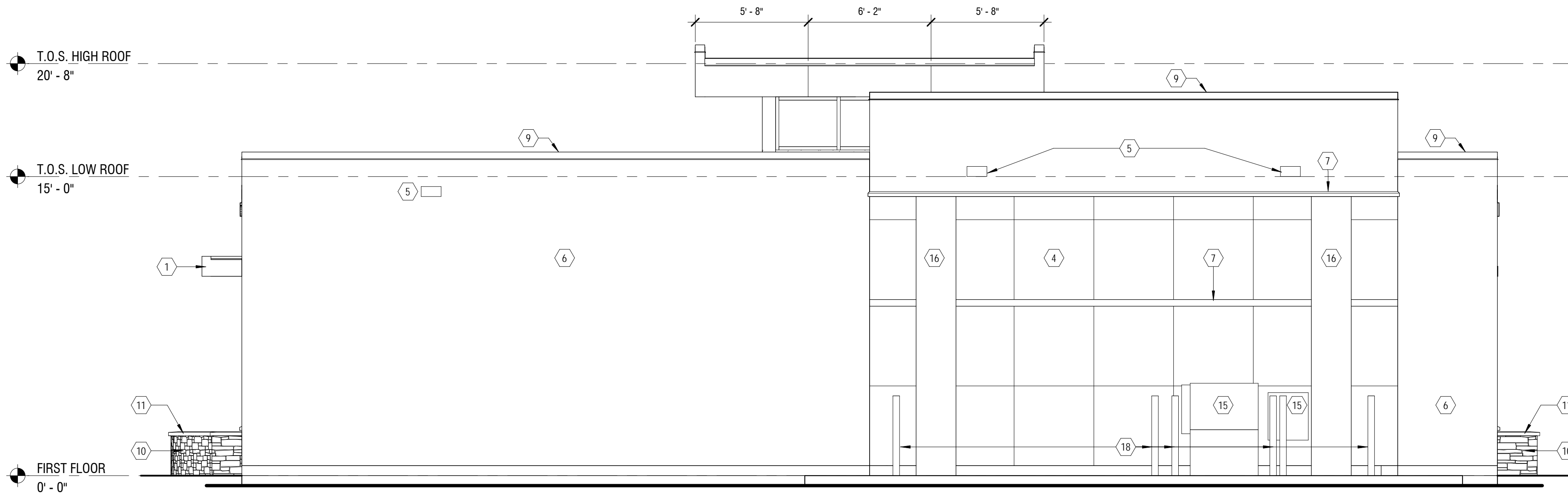


**NEW COMMUNITY BRANCH - NIAGARA FALLS**

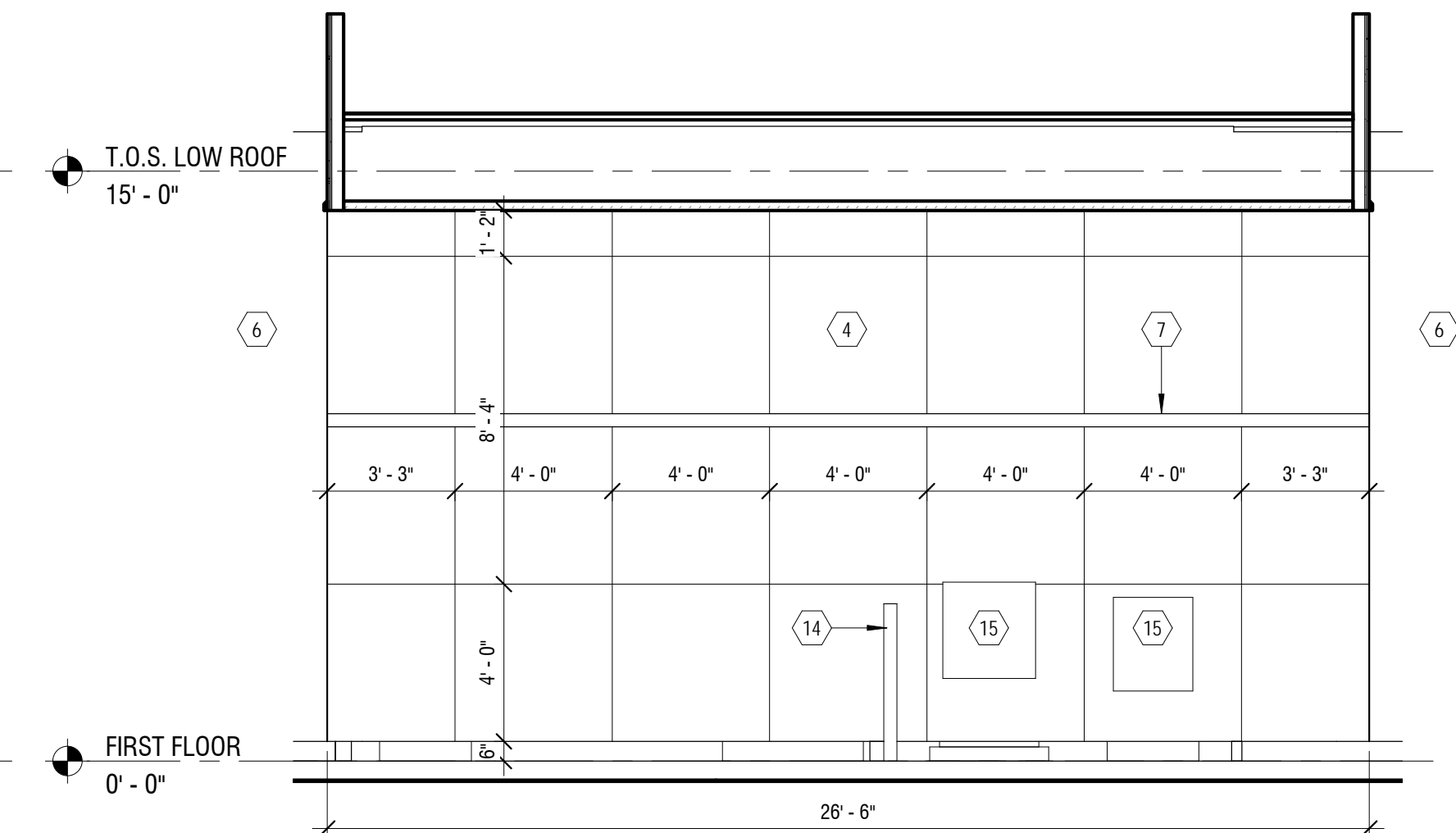
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

**ELEVATION NOTES:**

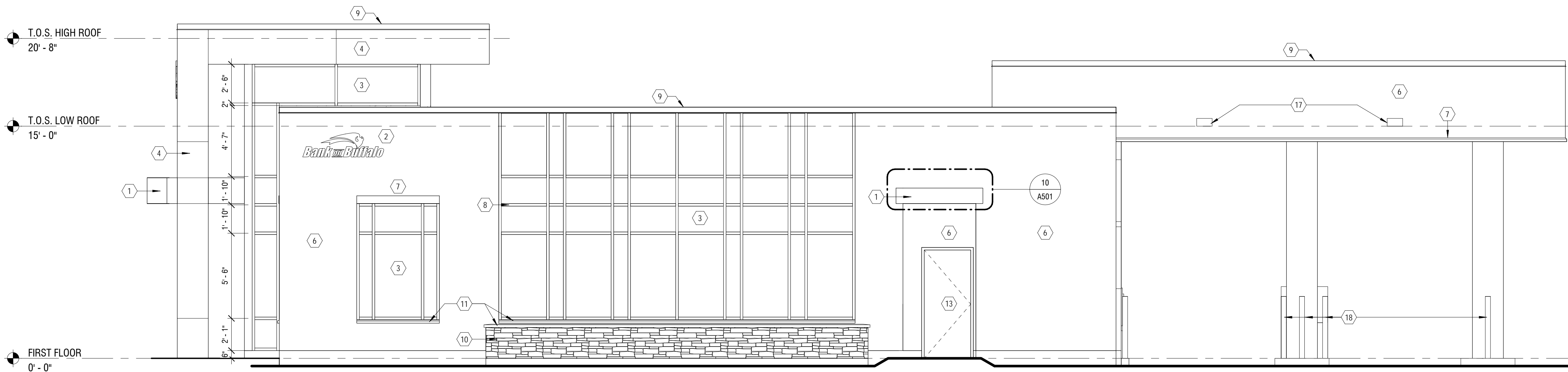
1. CANOPY - 4MM ACM (ALPOLIC) PANEL, ROOF & RETURN RAINSCREEN SYSTEM. SEE DETAILS FOR JOINT LAYOUT & ADDITIONAL INFORMATION. COLOR TO BE BBR RED.
2. LIT BANK SIGNAGE BY OWNER'S SEPARATE VENDOR. COORDINATE POWER, BLOCKING, LOCATION, & INSTALLATION REQUIREMENTS W/ OWNER'S BANK SIGNAGE VENDOR.
3. THERMALLY BROKEN CLEAR ANODIZED CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. SEE DOOR & WINDOW ELEVATIONS & DETAILS FOR MORE INFORMATION.
4. DIRECT APPLIED 8MM DEKTON PANELS. JOINT PATTERN AS INDICATED. SEE SECTIONS & DETAILS FOR MORE INFORMATION.
5. EXTERIOR LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
6. PORCELAIN TILE, SEE SECTIONS, DETAILS, & FINISH LEGEND FOR MORE INFORMATION. PROVIDE STAINLESS STEEL SCHLUTER EDGE @ OPENINGS, CORNERS & TRANSITIONS.
7. ALUM. TRIM BAND, COLOR TO MATCH ACM PANEL. SEE SECTIONS & DETAILS FOR MORE INFORMATION.
8. CUSTOM COLOR CURTAIN WALL CAP, COLOR TO MATCH ACM PANEL. COLOR FOR THIS HORIZONTAL ONLY. BACK MULLION TO BE CLEAR ANODIZED.
9. ALUM. COPING, SEE SECTIONS & DETAILS FOR MORE INFORMATION.
10. ELDERADO MOUNTAIN LEDGE ADHERED MASONRY VENEER. SEE SECTIONS & DETAILS FOR MORE INFORMATION.
11. CUSTOM PRECAST SILL/CAP. SEE SECTIONS & DETAILS FOR MORE INFORMATION.
12. THREE DIMENSIONAL RAISED LETTER SIGN BY OWNER'S SIGNAGE VENDOR. COORDINATE INSTALLATION W/ SIGN VENDOR.
13. INSULATED METAL DOOR & FRAME, PAINT PER FINISH SCHEDULE & SPECIFICATIONS.
14. 4" DIA. SCH. 40 STEEL BOLLARD W/ BASE PLATE BOLTED DOWN TO CONCRETE ISLAND. BOLT DOWN W/ MIN. (2) 1/2" DIA. HLT HI-HY200 STAINLESS STEEL ANCHORS. BOLLARD & BASE PLATE TO BE SHOP PRIMED. BASE PLATE TO BE FINISH PAINTED TO MATCH BOLLARD COVER. PROVIDE HDPE BOLLARD COVER BY IDEALSHIELD OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT. COORDINATE EXACT LOCATION IN FIELD W/ BANK EQUIPMENT & OWNER'S BANK EQUIPMENT VENDOR. BANK EQUIPMENT BY OWNER'S SEPARATE VENDOR. COORDINATE UTILITY CONNECTIONS, SIZE, EXACT LOCATION, & INSTALLATION IN FIELD WITH OWNER'S BANK EQUIPMENT VENDOR.
15. 4MM ACM (ALPOLIC) COLUMN COVER, RAINSCREEN SYSTEM. SEE DETAILS FOR JOINT LAYOUT & ADDITIONAL INFORMATION. COLOR TO BE MICA MNC CLEAR.
16. OWNER PROVIDED OUTDOOR DRIVE THRU SIGNAGE, GC TO INSTALL.
17. 4" DIA. CONCRETE FILLED, SCH. 40 STEEL BOLLARD SET IN 18" DIA. CONCRETE BASE. CONCRETE BASE TO BE MIN. 30" BELOW GRADE. BOLLARD TO BE SHOP PRIMED. PROVIDE HDPE BOLLARD COVER BY IDEALSHIELD OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT. COORDINATE EXACT LOCATION IN FIELD W/ BANK EQUIPMENT & OWNER'S BANK EQUIPMENT VENDOR IF NOT DIMENSIONED.



**1 SOUTH ELEVATION**  
A202 SCALE: 1/4" = 1'-0"



**3 SOUTH ELEVATION - BUMP OUT**  
A202 SCALE: 1/4" = 1'-0"



**2 WEST ELEVATION**  
A202 SCALE: 1/4" = 1'-0"

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER:	2181539
DRAWN BY:	SP
REVIEWED BY:	RJN
ISSUED FOR:	BID SET
DATE:	25 JAN 2019
DRAWING NAME:	

**EXTERIOR ELEVATIONS**

DRAWING NUMBER:

**A202**

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

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NO.	DATE	DESCRIPTION

PROJECT NUMBER: **2181539**

DRAWN BY: **SP**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

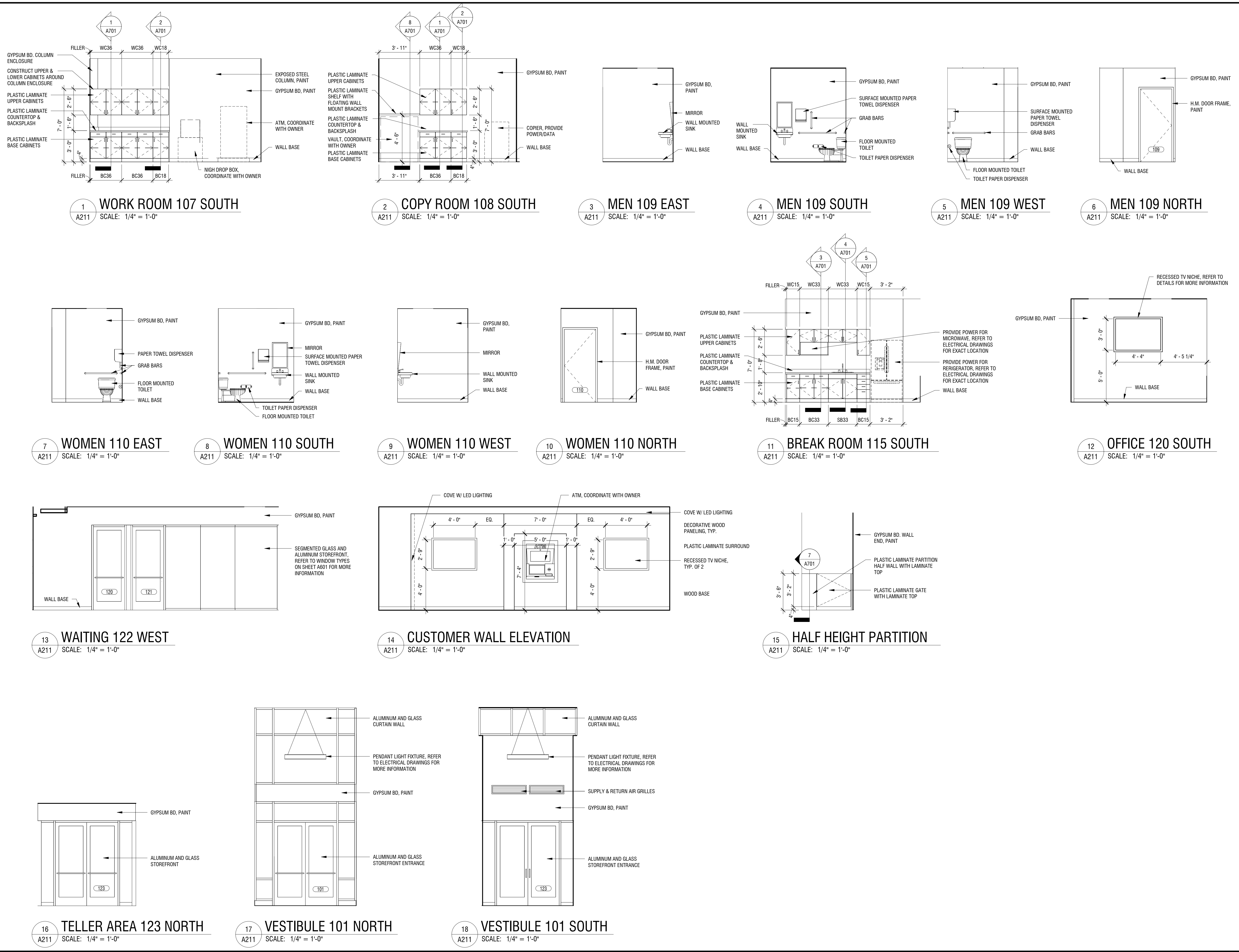
DATE: **25 JAN 2019**

DRAWING NAME:

**INTERIOR ELEVATIONS**

DRAWING NUMBER:

**A211**



NOT FOR CONSTRUCTION

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NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2181539

DRAWN BY: SP

REVIEWED BY: RJN

ISSUED FOR: BID SET

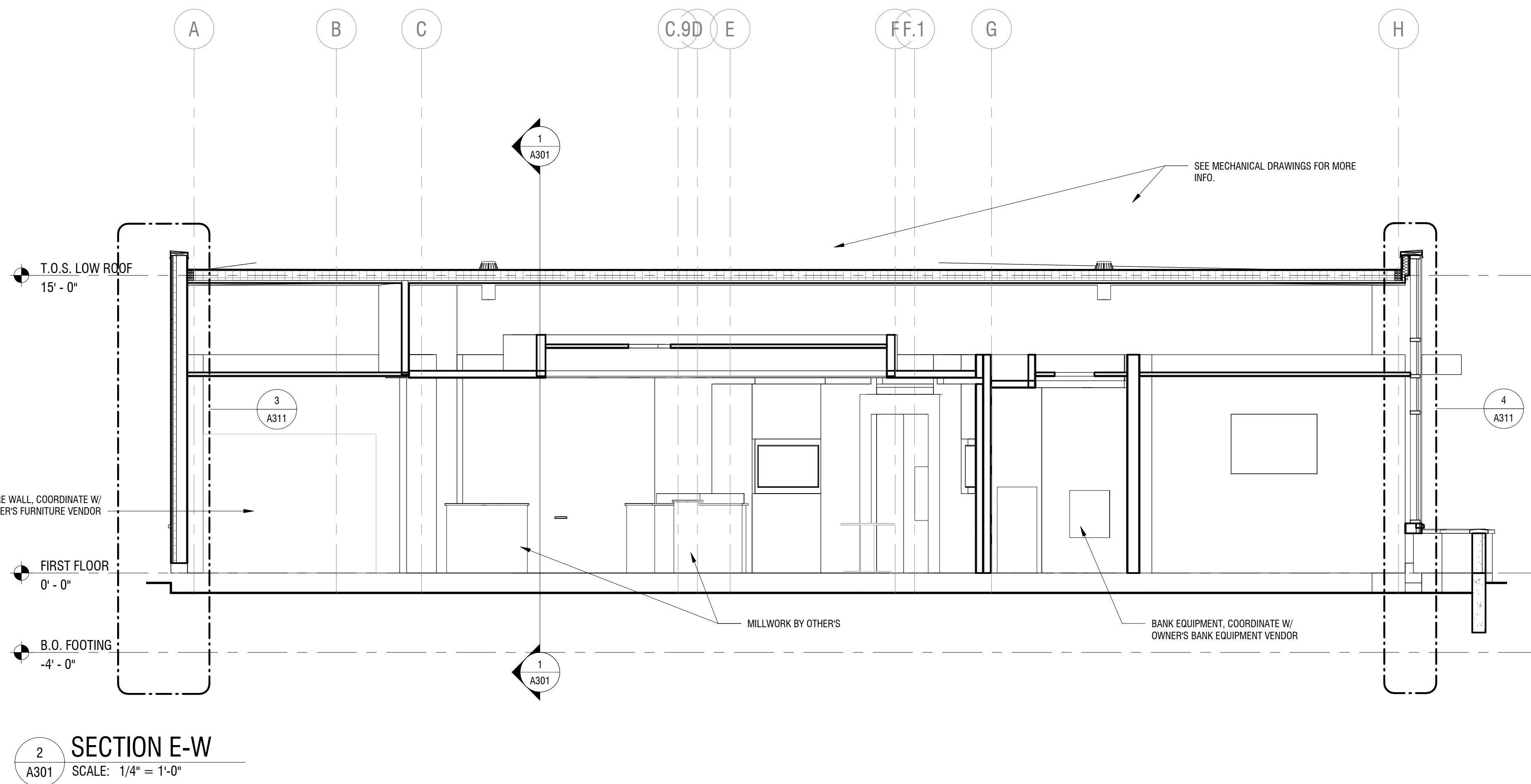
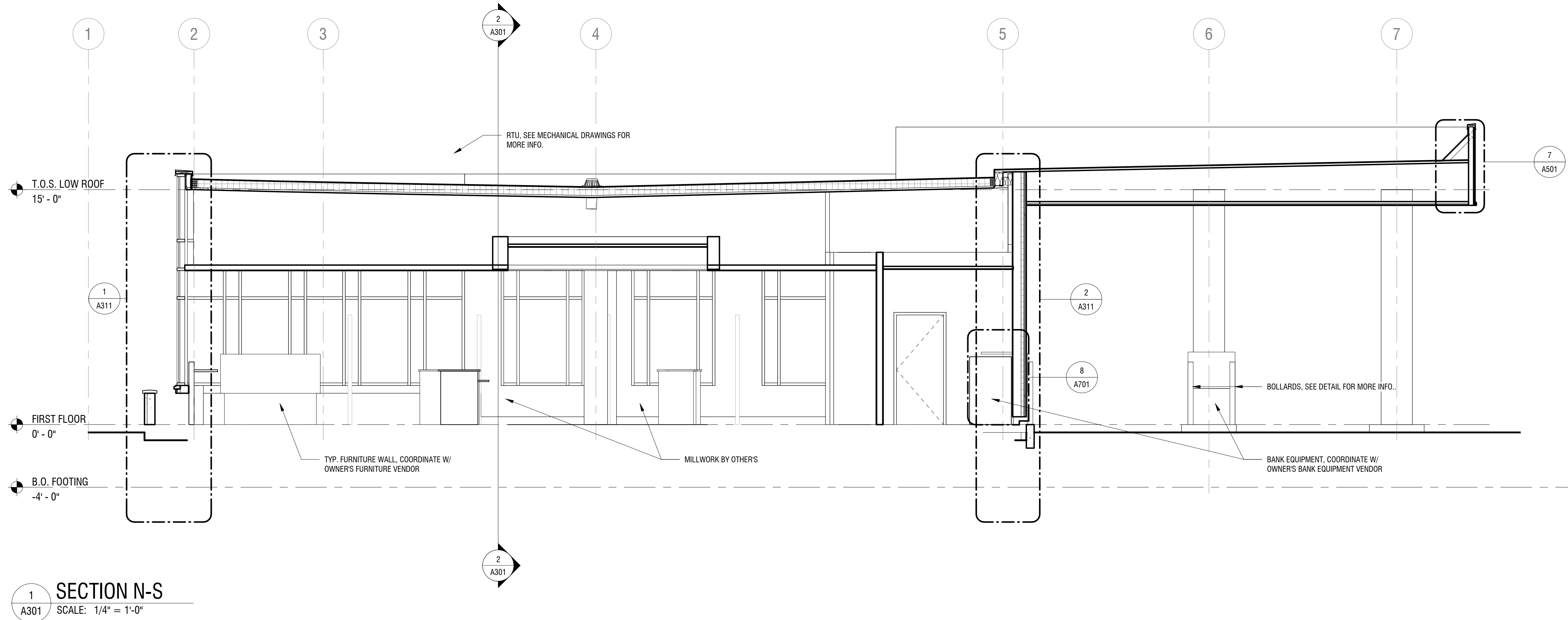
DATE: 25 JAN 2019

DRAWING NAME:

**BUILDING SECTIONS**

DRAWING NUMBER:

**A301**



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

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NO.	DATE	DESCRIPTION

PROJECT NUMBER: 2181539

DRAWN BY: JMR

REVIEWED BY: RJN

ISSUED FOR: BID SET

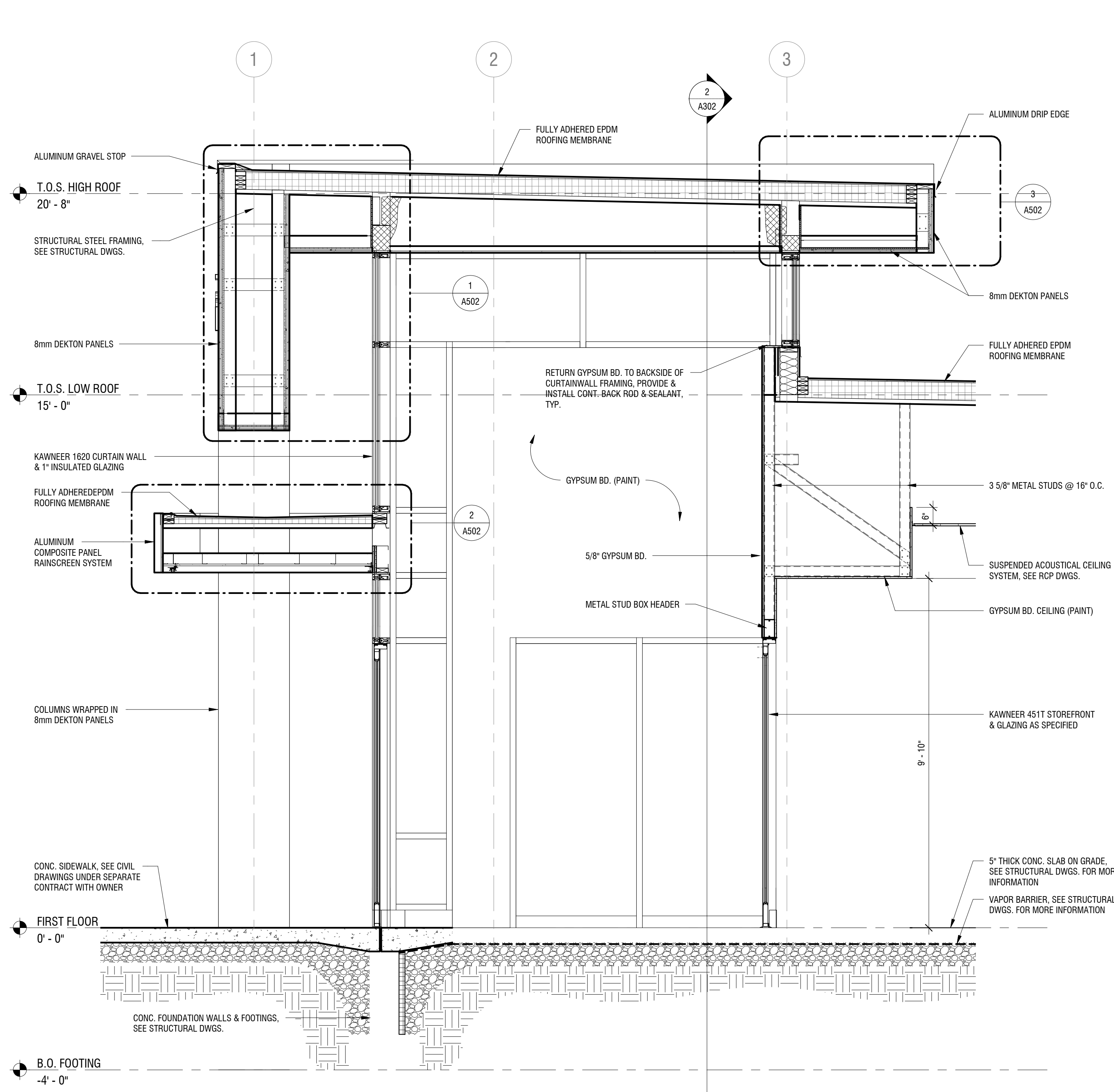
DATE: 25 JAN 2019

DRAWING NAME:

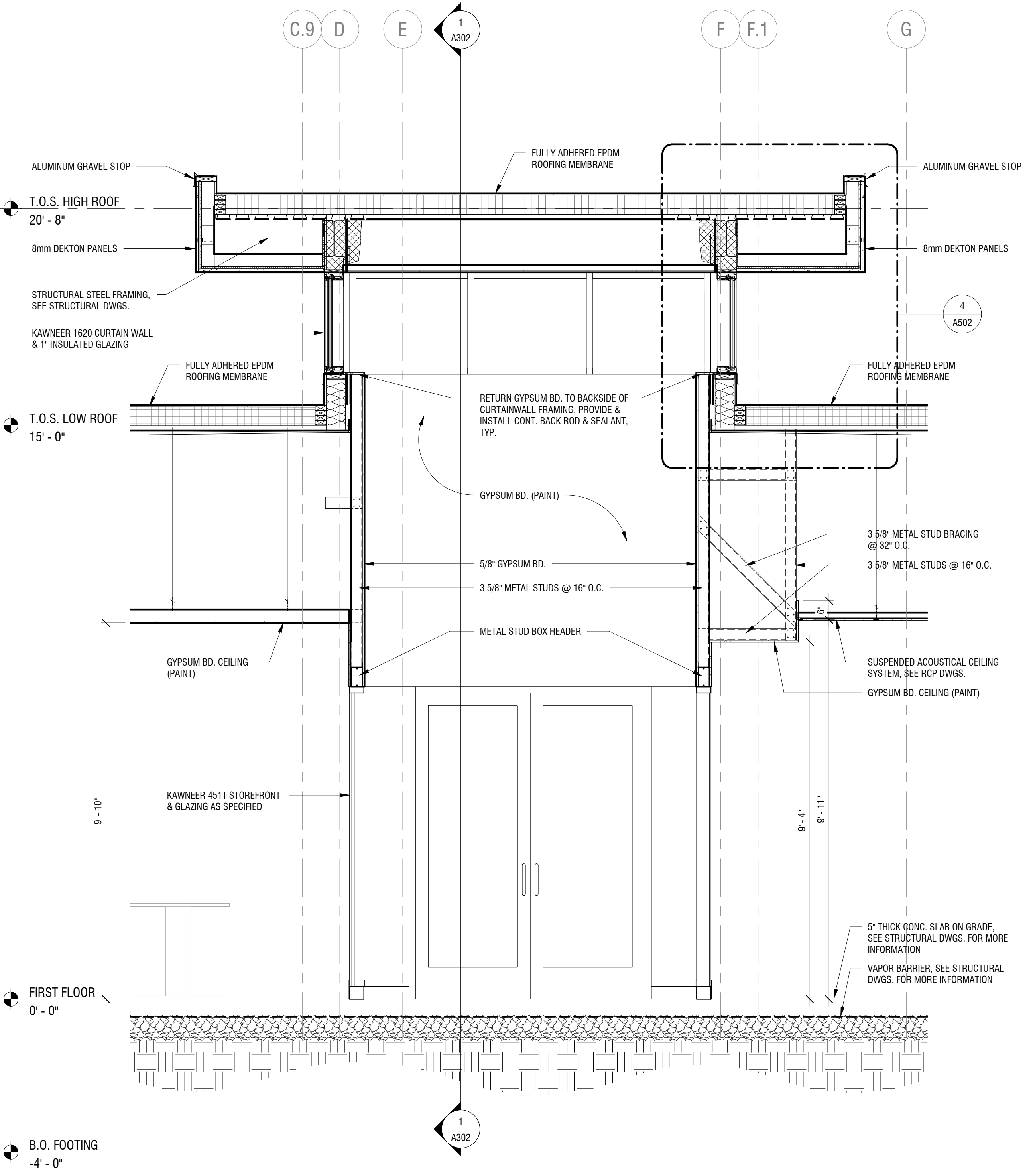
**BUILDING SECTIONS**

DRAWING NUMBER:

**A302**



**1**  
A302  
ENTRANCE SECTION N-S  
SCALE: 1/2" = 1'-0"



**2**  
A302  
ENTRANCE SECTION E-W  
SCALE: 1/2" = 1'-0"

NOT FOR CONSTRUCTION

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

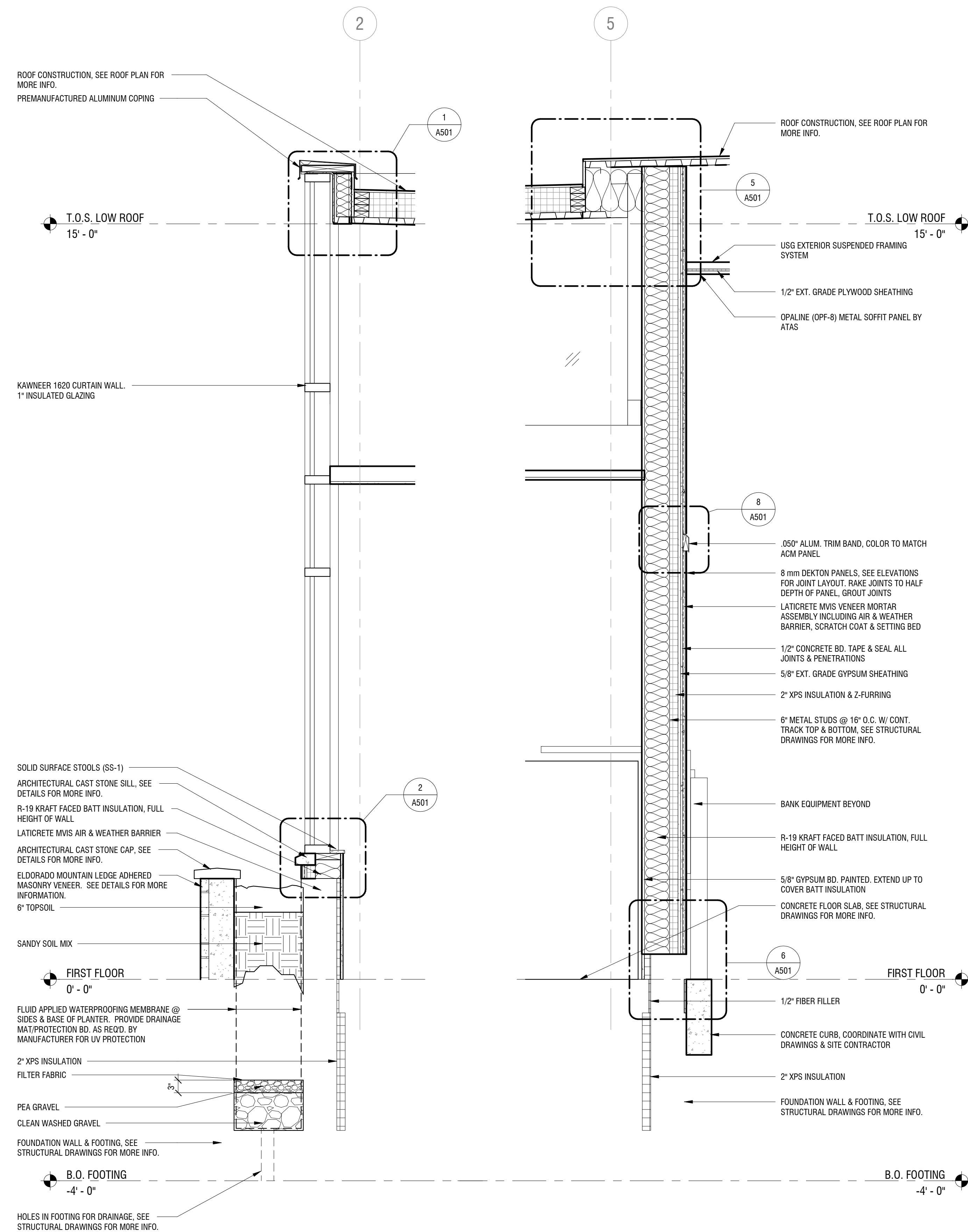
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2181539		
DRAWN BY: SP		
REVIEWED BY: RJN		
ISSUED FOR: BID SET		
DATE: 25 JAN 2019		
DRAWING NAME:		

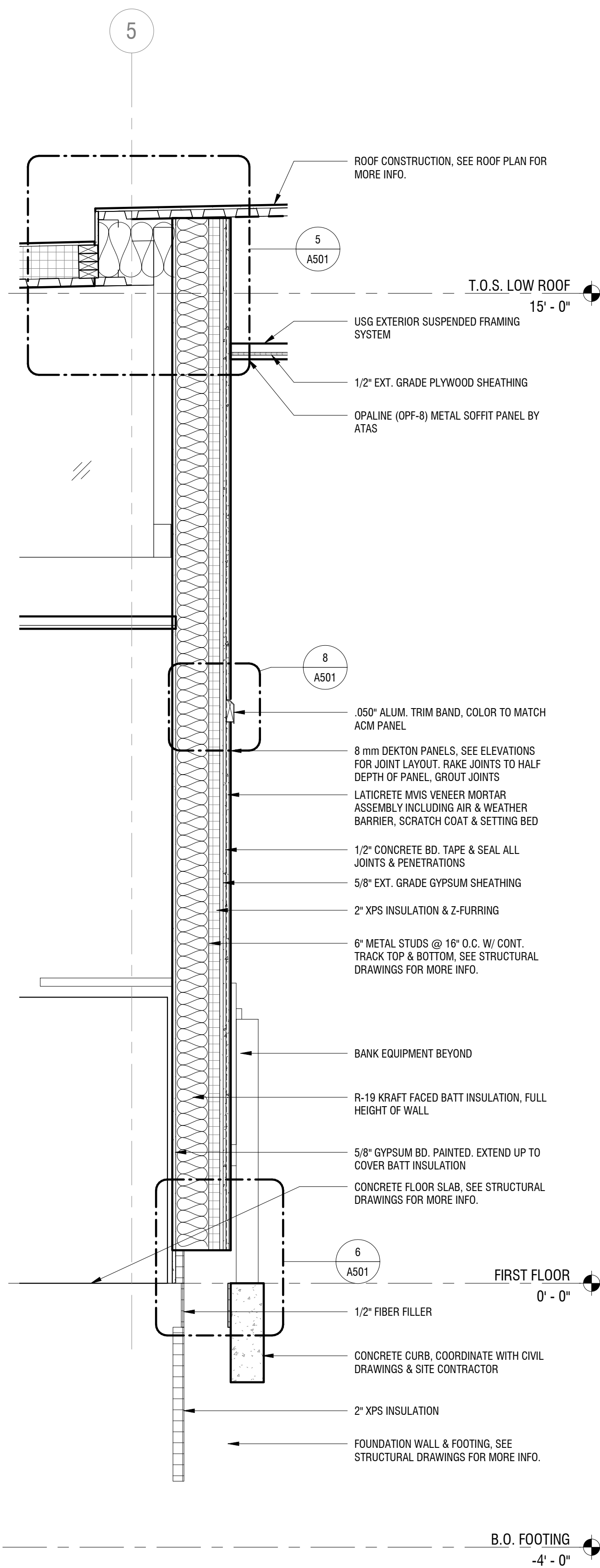
**WALL SECTIONS**

DRAWING NUMBER:

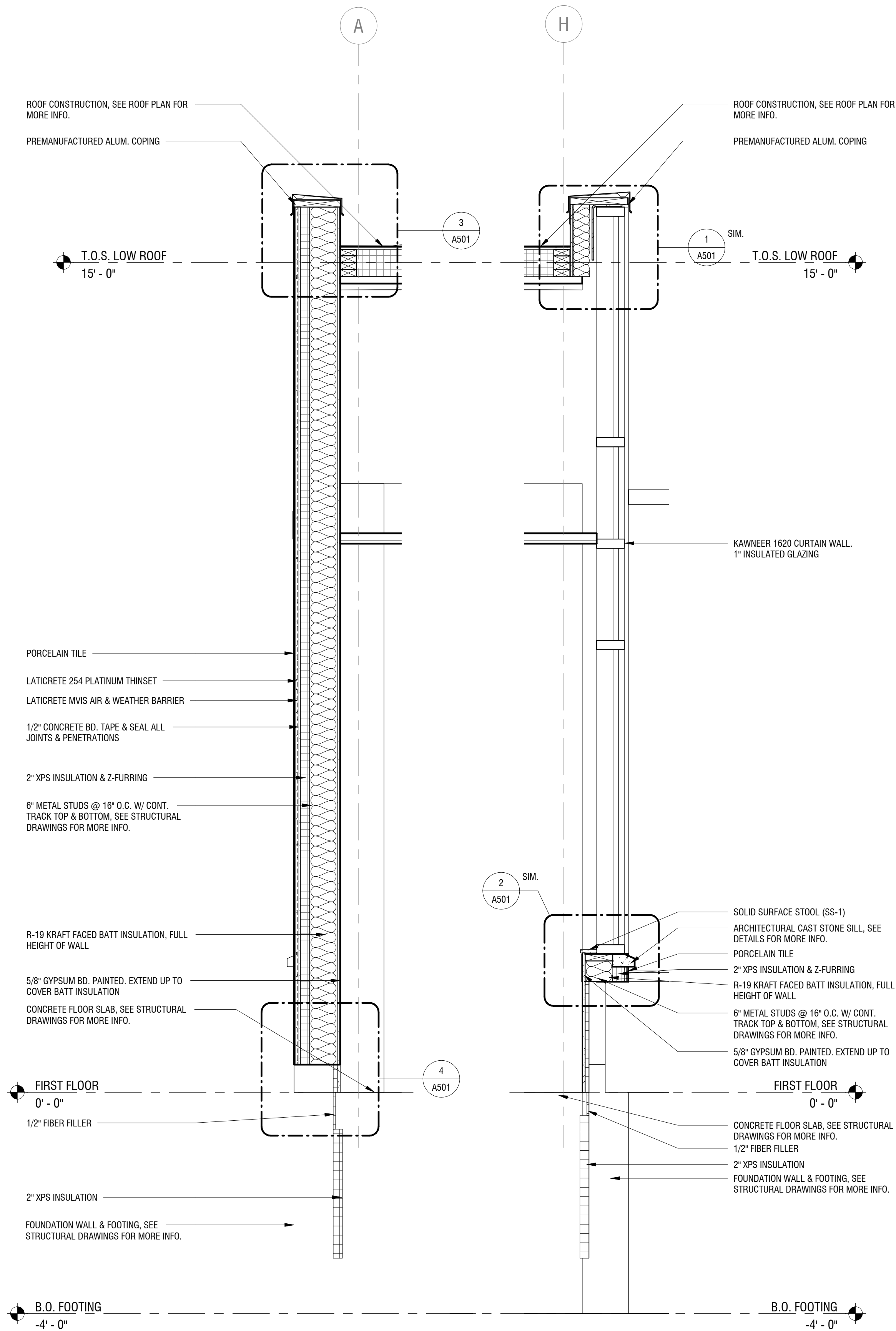
**A311**



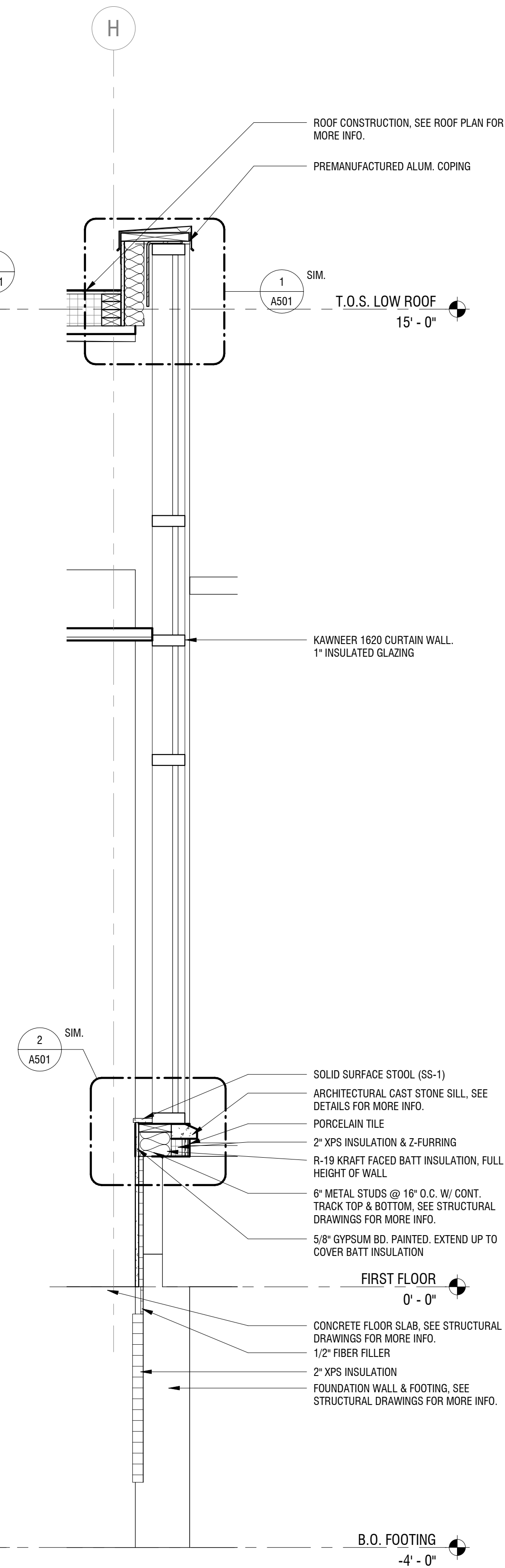
**1 WALL SECTION - NORTH/PLANTER**  
A311 SCALE: 3/4" = 1'-0"



**2 WALL SECTION - SOUTH-DRIVEUP**  
A311 SCALE: 3/4" = 1'-0"



**3 WALL SECTION - EAST**  
A311 SCALE: 3/4" = 1'-0"



**4 WALL SECTION - WEST**  
A311 SCALE: 3/4" = 1'-0"

NOT FOR CONSTRUCTION

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **SP**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

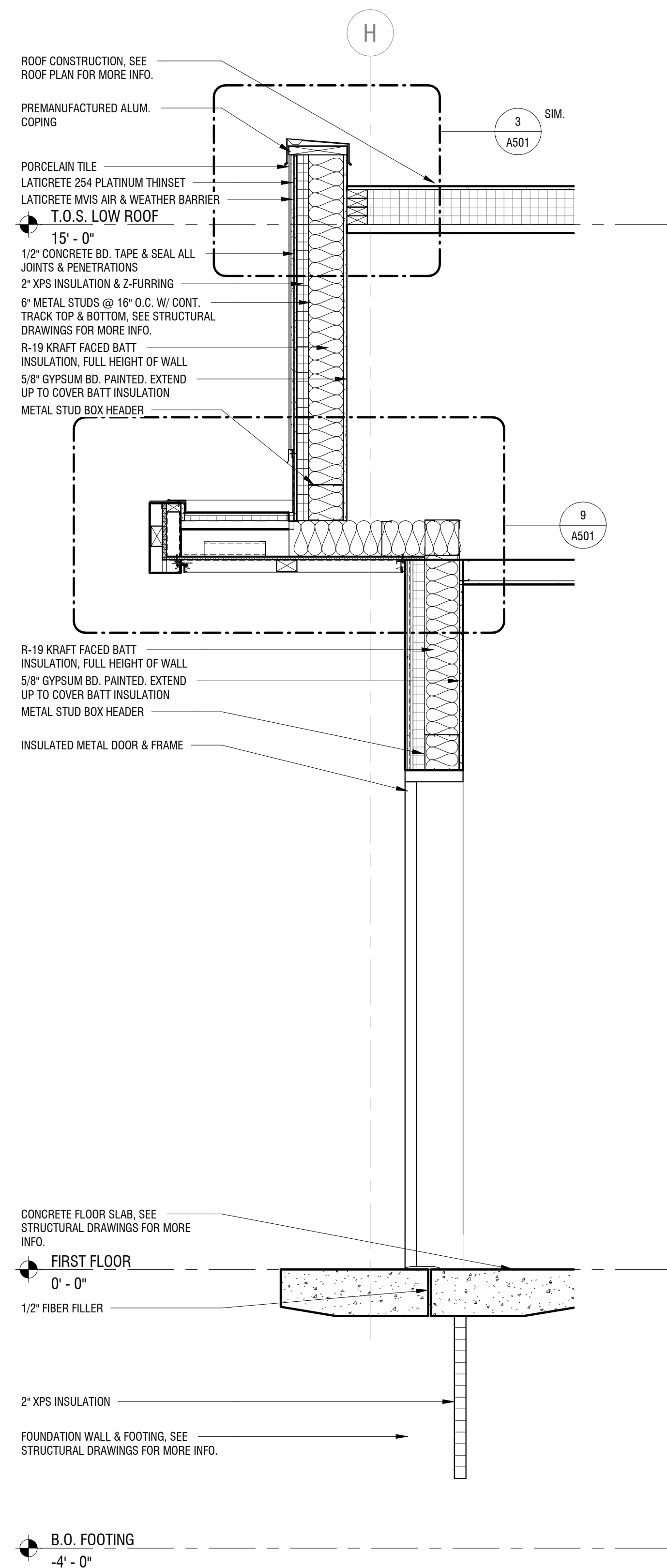
DATE: **25 JAN 2019**

DRAWING NAME:

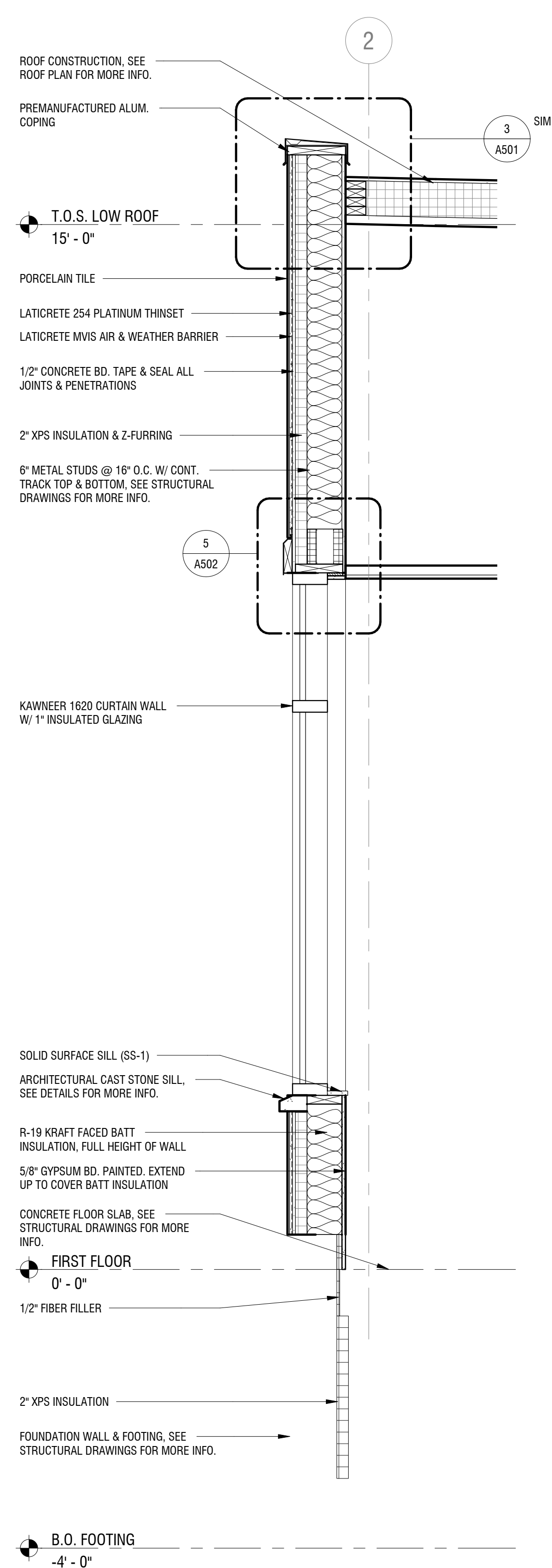
**WALL SECTIONS**

DRAWING NUMBER:

**A312**



**1 WALL SECTION - WEST ENTRY**  
A312 SCALE: 3/4" = 1'-0"



**2 WALL SECTION - NORTH**  
A312 SCALE: 3/4" = 1'-0"

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

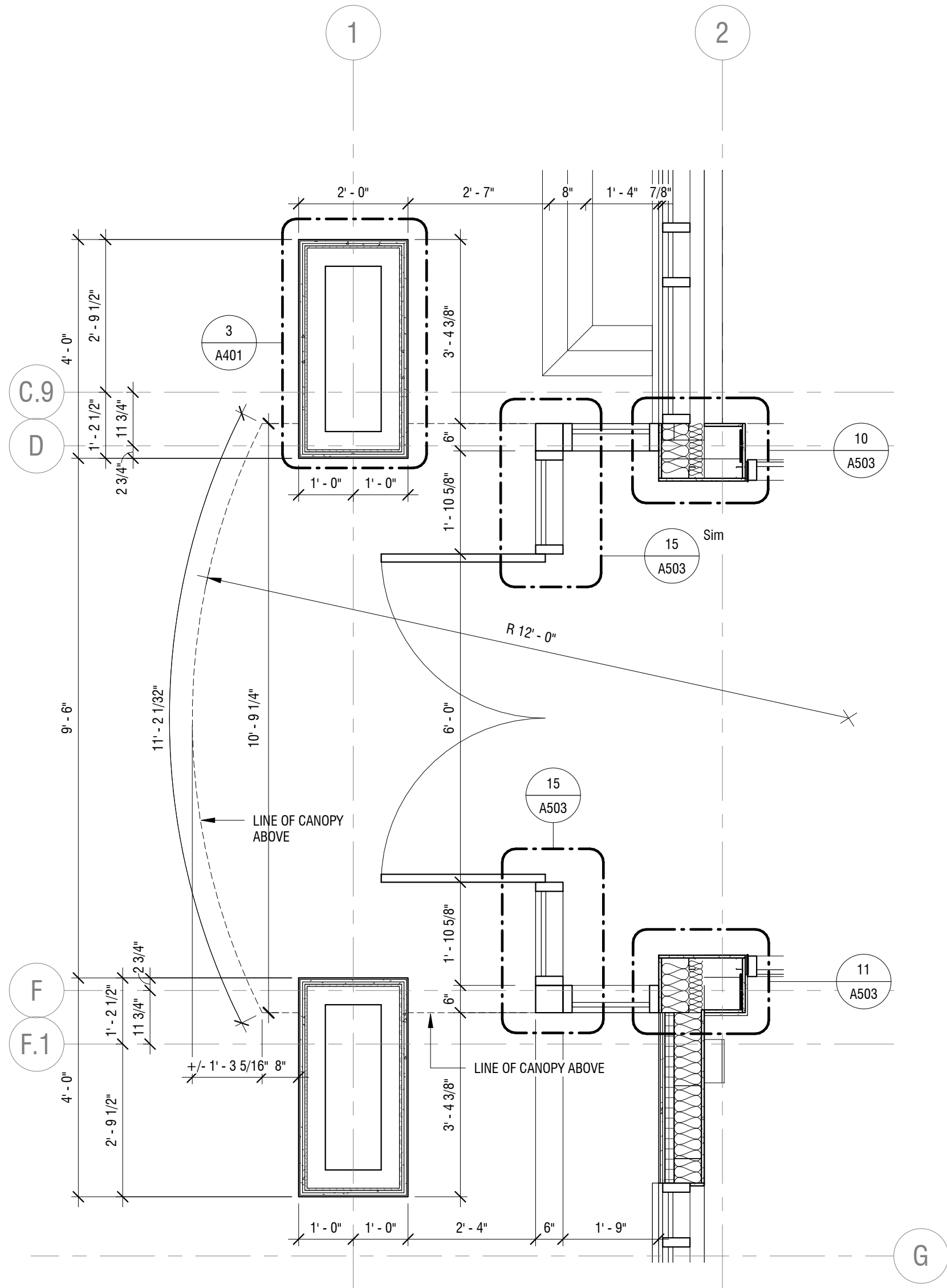
7121 Niagara Falls Blvd.  
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DRAWING NAME:		

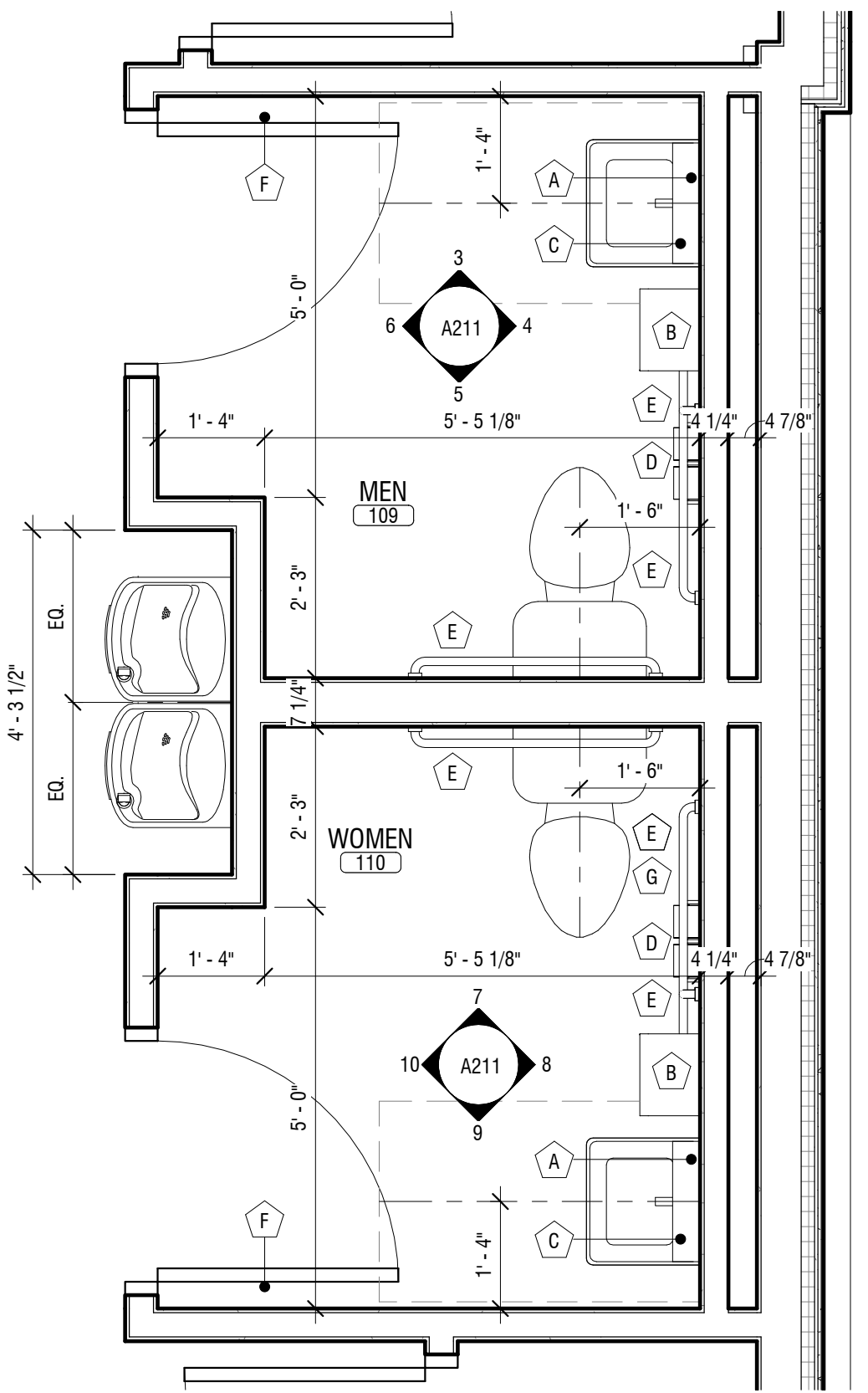
**ENLARGED PLANS**

DRAWING NUMBER:

**A401**



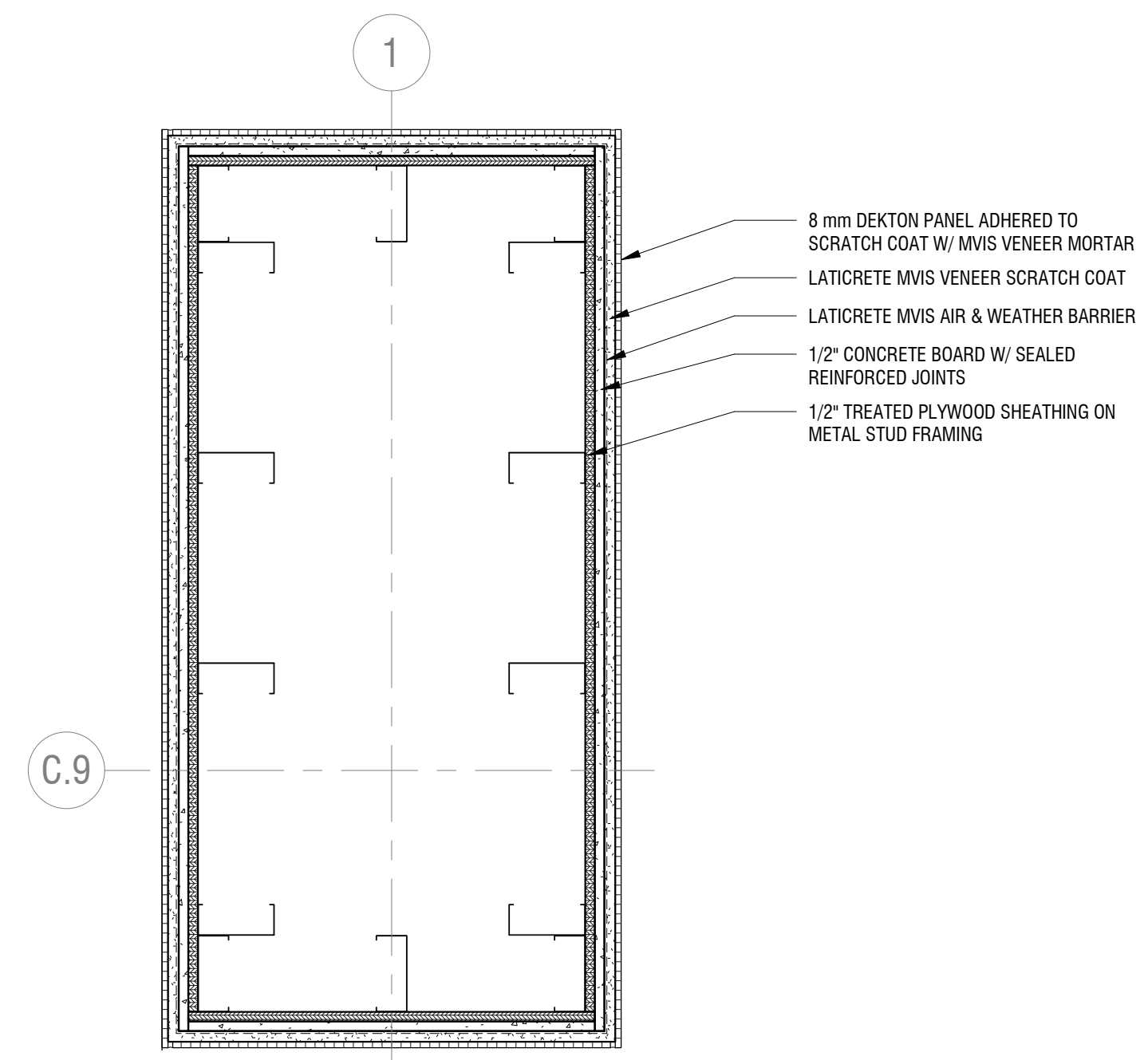
**1 ENLARGED ENTRY PLAN**  
A401 SCALE: 1/2" = 1'-0"



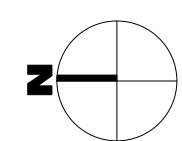
**2 ENLARGED BATHROOM PLAN**  
A401 SCALE: 1/2" = 1'-0"

**TOILET ACCESSORIES:**

- A. MIRROR: BOBRICK MODEL NO. B-165 2436, 24"W x 36"H, STAINLESS STEEL CHANNEL FRAME MIRROR, MOUNTED W/ REFLECTIVE SURFACE @ 40" AFF (MAX).
- B. PAPER TOWEL DISPENSER: GEORGIA PACIFIC "ENMOTION" SERIES ELECTRONIC TOWEL SYSTEM, MODEL NO. 59482A "BLACK", MOUNT BOTTOM @ 46" AFF.
- C. SOAP DISPENSER: TECHNICAL CONCEPTS/RUBBERMAID "ONESHOT" COUNTERMOUNT AUTOMATIC SOAP DISPENSER. MODEL NO FG401310 POLISHED CHROME/BLACK.
- D. TOILET PAPER DISPENSER: GEORGIA PACIFIC "COMPACT" DOUBLE ROLL, COVERED HIGH CAPACITY SIDE BY SIDE TISSUE DISPENSER, MODEL NO 56784A "BLACK", MOUNTED PER DETAILS, SHEET 6002.
- E. GRAB BARS: BOBRICK MODEL NOS. 5806-18, 5806-36 & 5806-42, 1-1/4" O.D., SNAP-FLANGE STAINLESS STEEL TUBING W/ PEENED, NON-SLIP GRIPPING SURFACE, MOUNTED PER DETAILS, SHEET 6002.
- F. HOOKS: BOBRICK MODEL NO. B-76717, SATIN STAINLESS STEEL, SINGLE ROBE HOOK @ BACK SIDE OF DOOR. COORDINATE MOUNTING HEIGHT & LOCATION W/ OWNER.
- G. SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B-270, STAINLESS STEEL, SURFACE MOUNTED, MOUNTED PER DETAILS, SHEET 6002.



**3 ENLARGED ENTRY PIER DETAIL**  
A401 SCALE: 1 1/2" = 1'-0"





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7121 Niagara Falls Blvd.  
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Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **SP**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

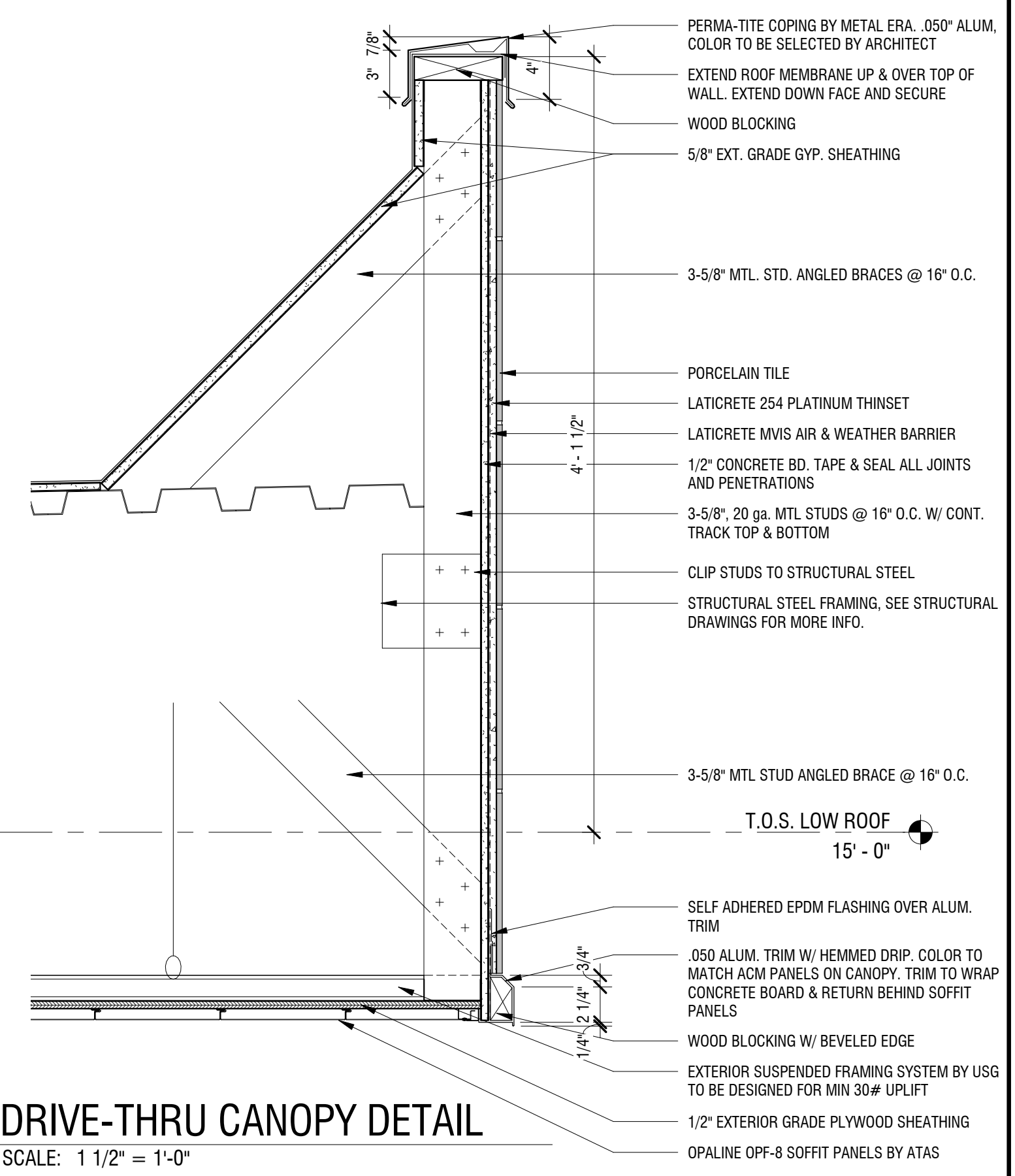
DATE: **25 JAN 2019**

DRAWING NAME:

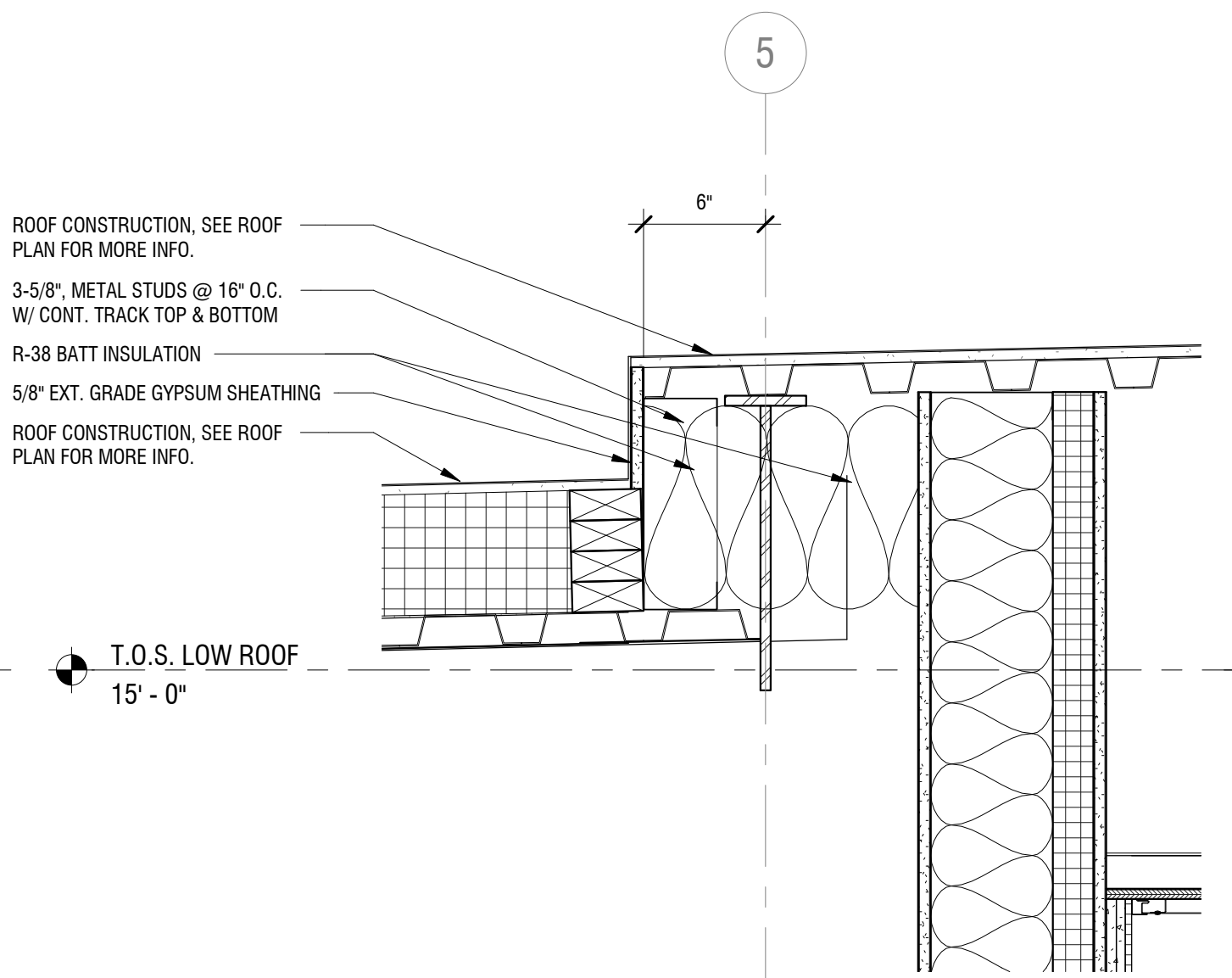
**DETAILS**

DRAWING NUMBER:

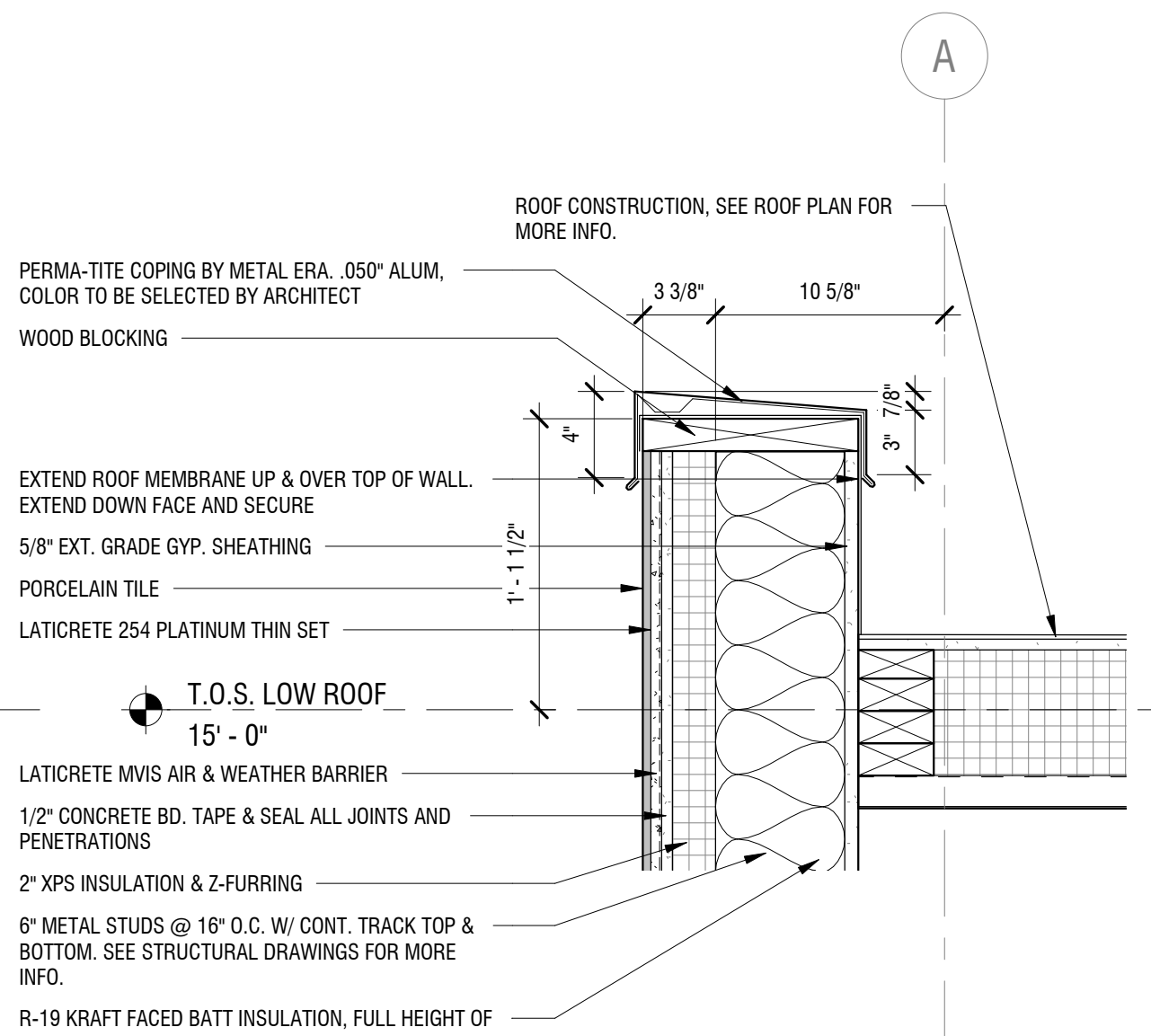
**A501**



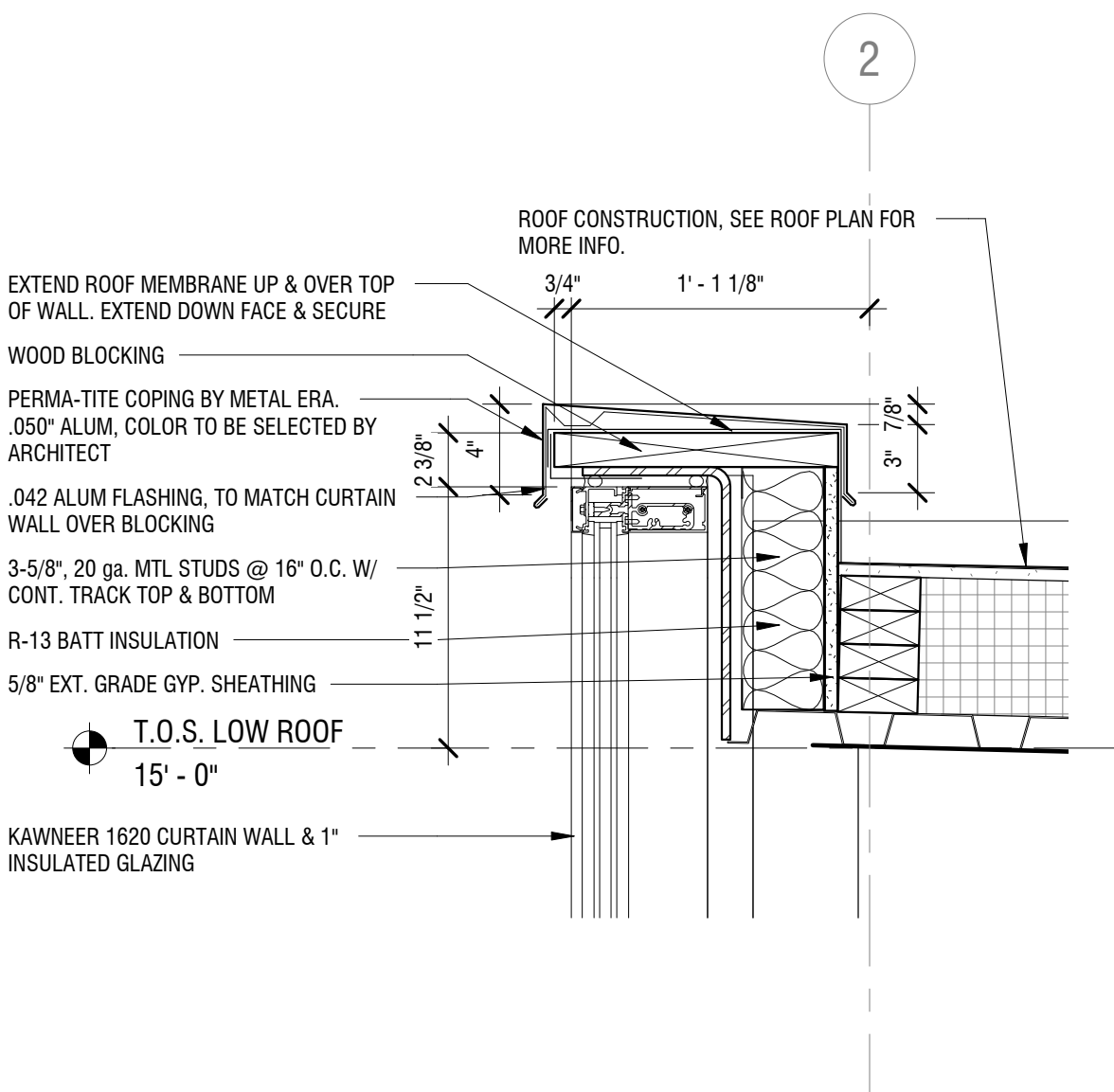
**7 DRIVE-THRU CANOPY DETAIL**  
A501 SCALE: 1 1/2" = 1'-0"



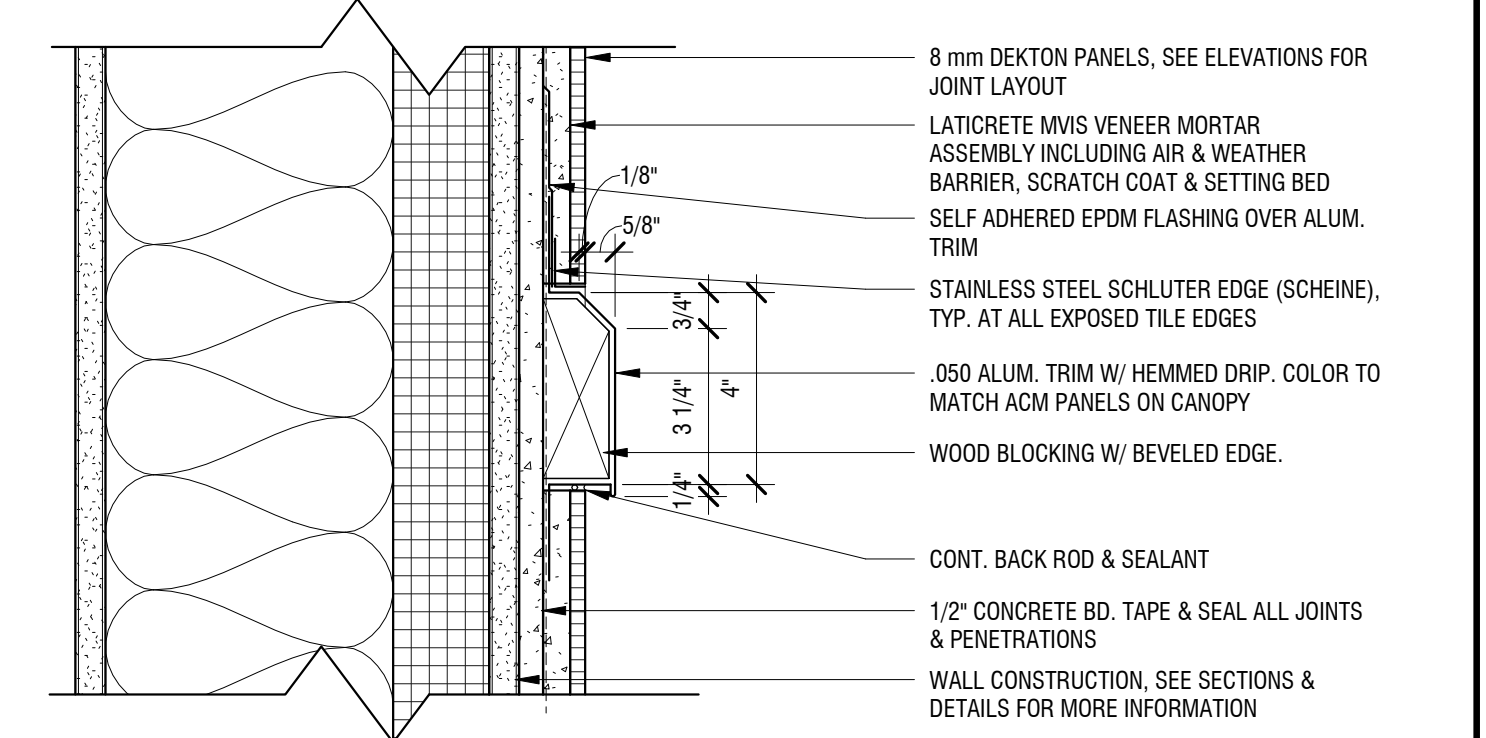
**5 ROOF STEP DETAIL**  
A501 SCALE: 1 1/2" = 1'-0"



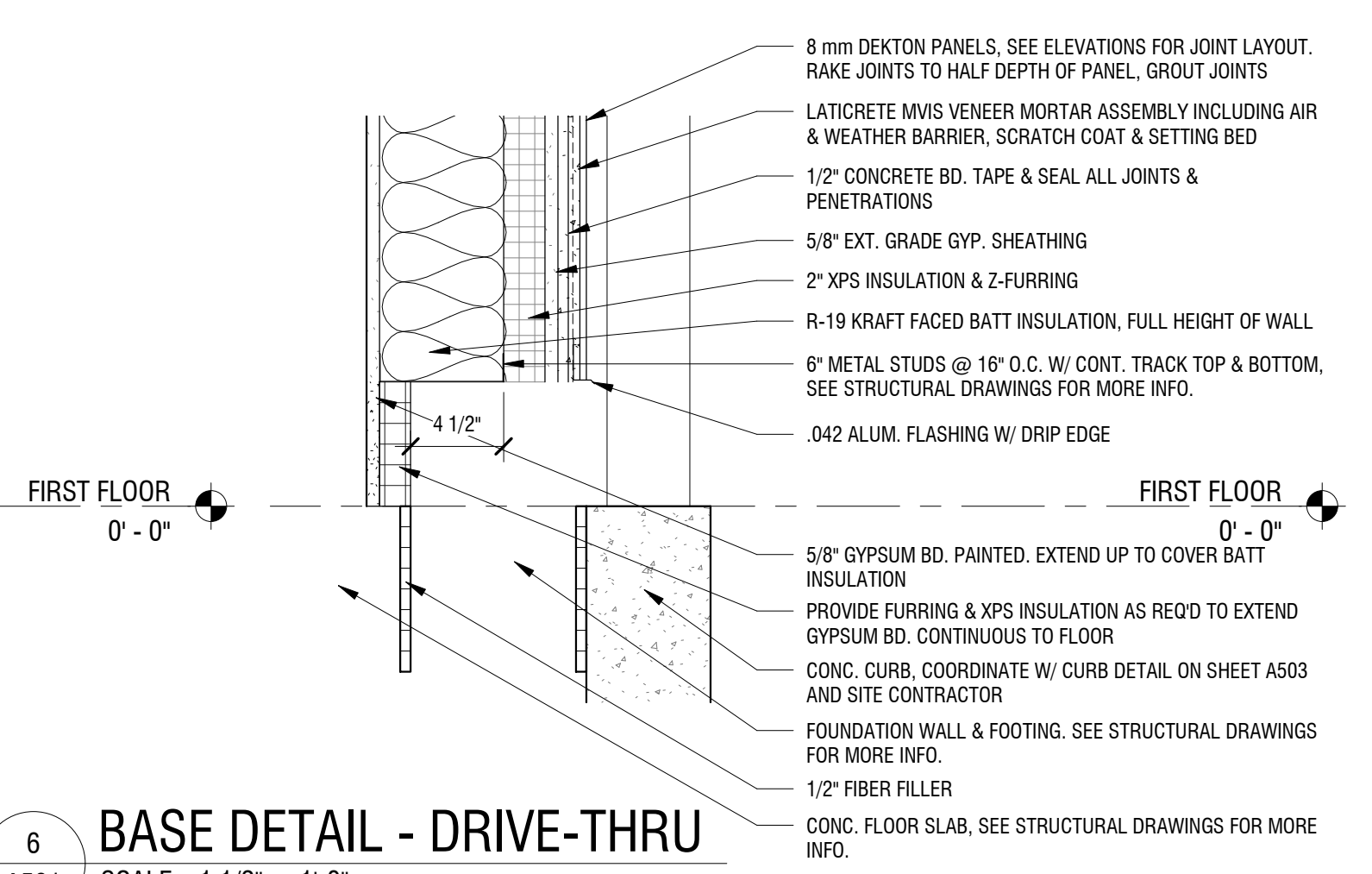
**3 TOP OF WALL - FRAMING**  
A501 SCALE: 1 1/2" = 1'-0"



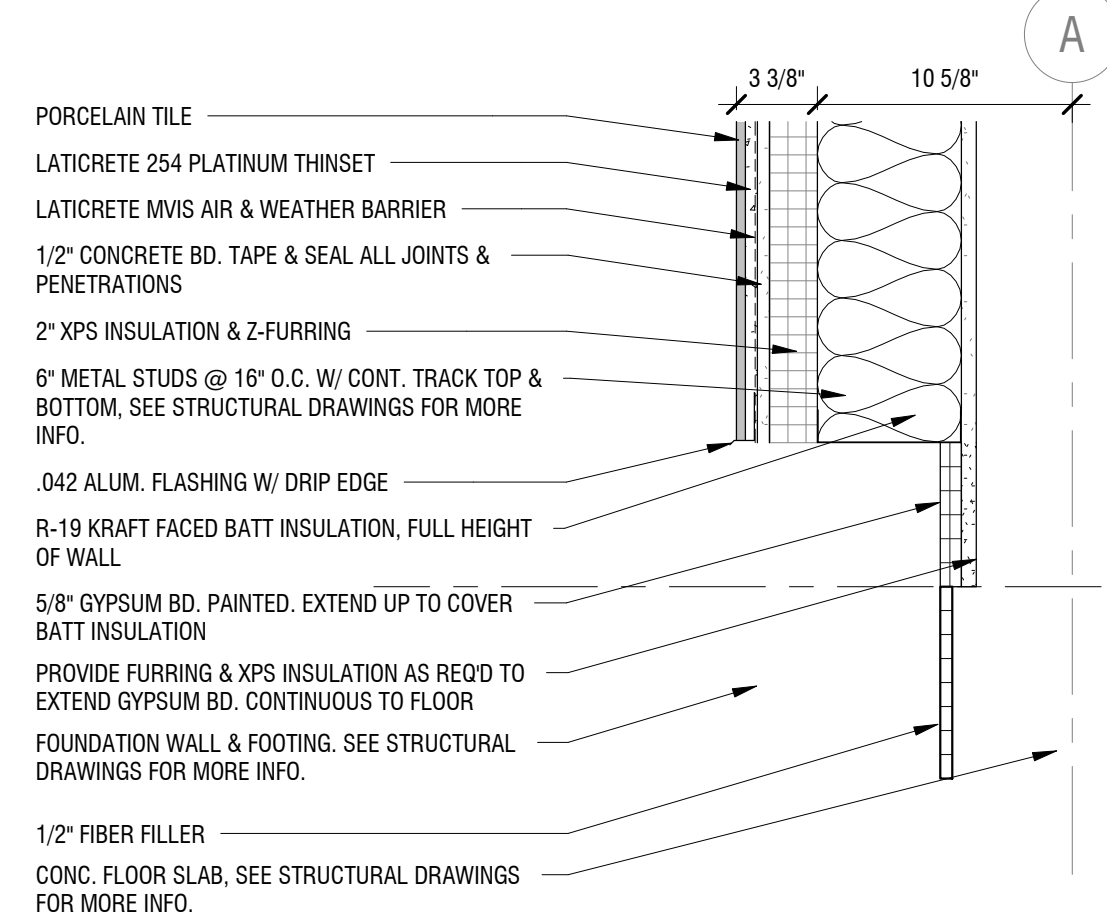
**1 TOP OF WALL DETAIL - GLASS**  
A501 SCALE: 1 1/2" = 1'-0"



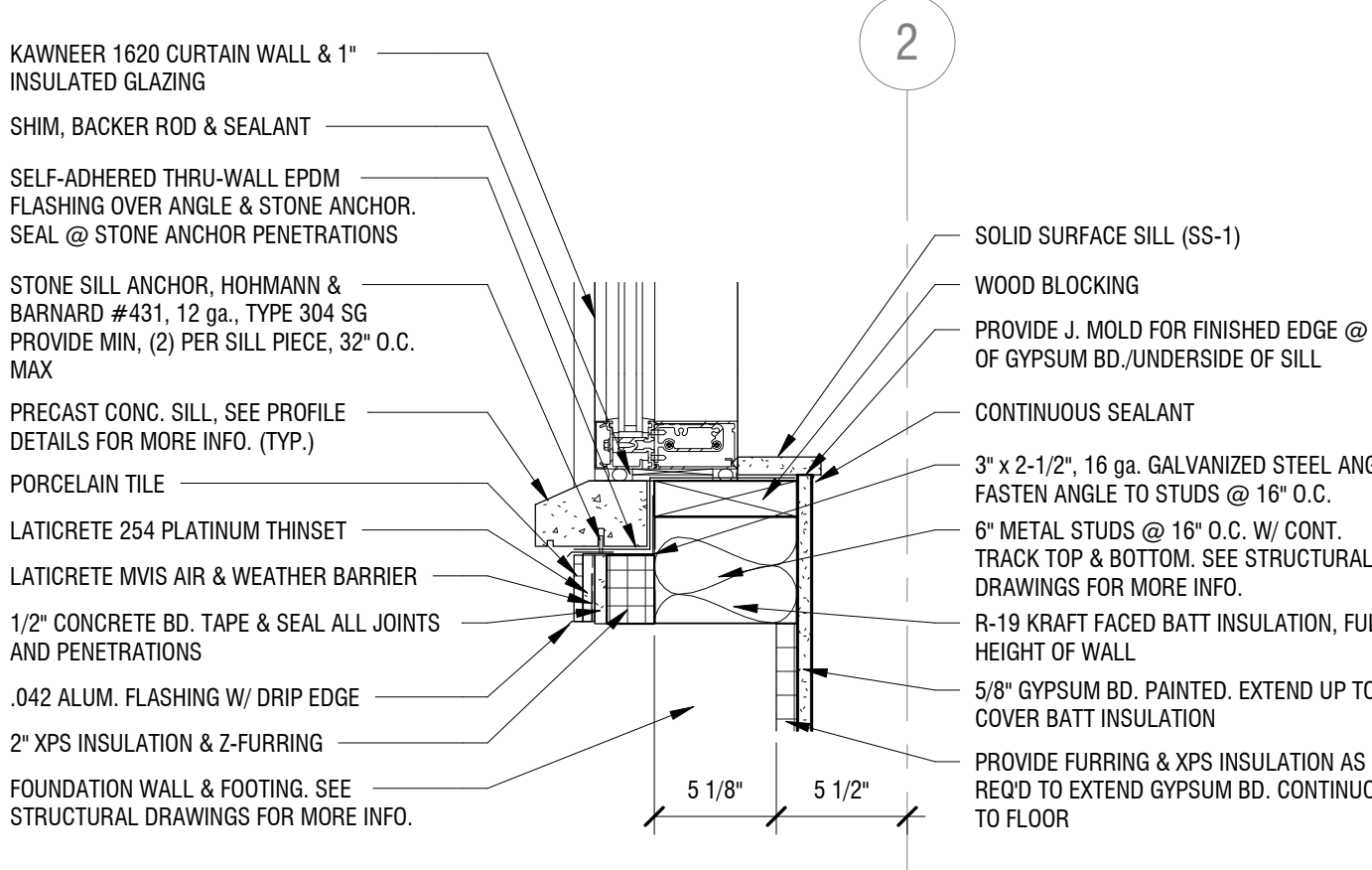
**8 ALUM. TRIM DETAIL @ DEKTON**  
A501 SCALE: 3" = 1'-0"



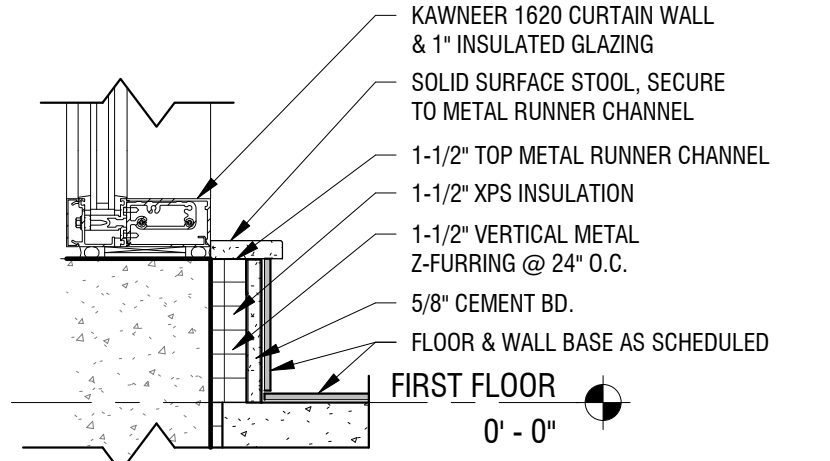
**6 BASE DETAIL - DRIVE-THRU**  
A501 SCALE: 1 1/2" = 1'-0"



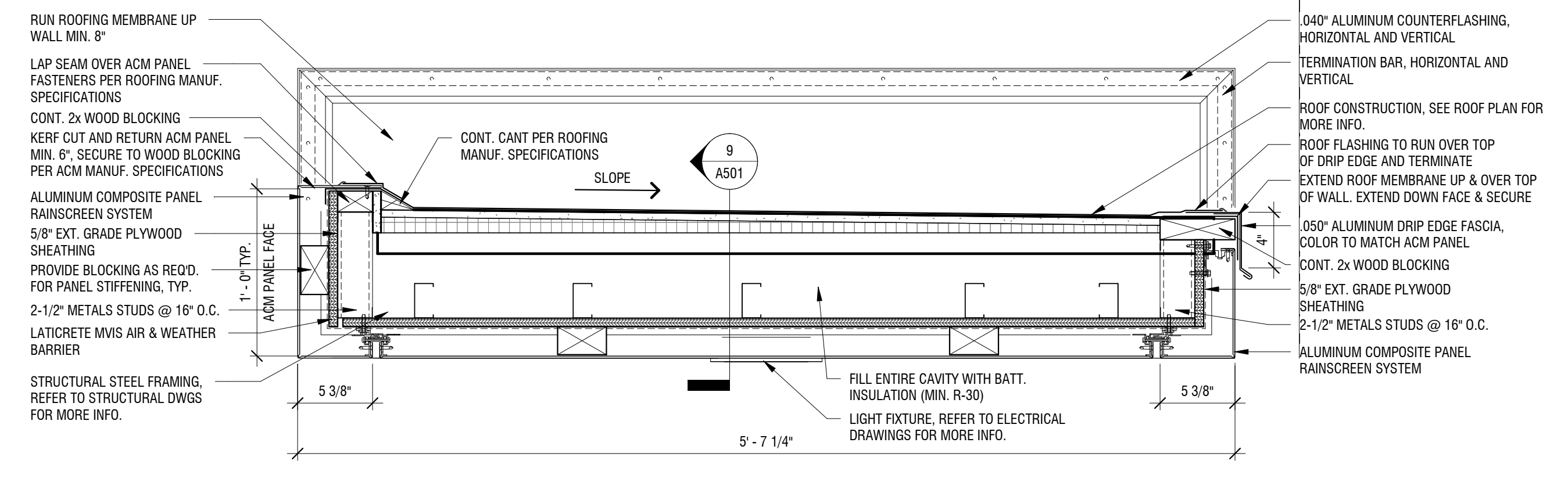
**4 BASE DETAIL - FRAMING**  
A501 SCALE: 1 1/2" = 1'-0"



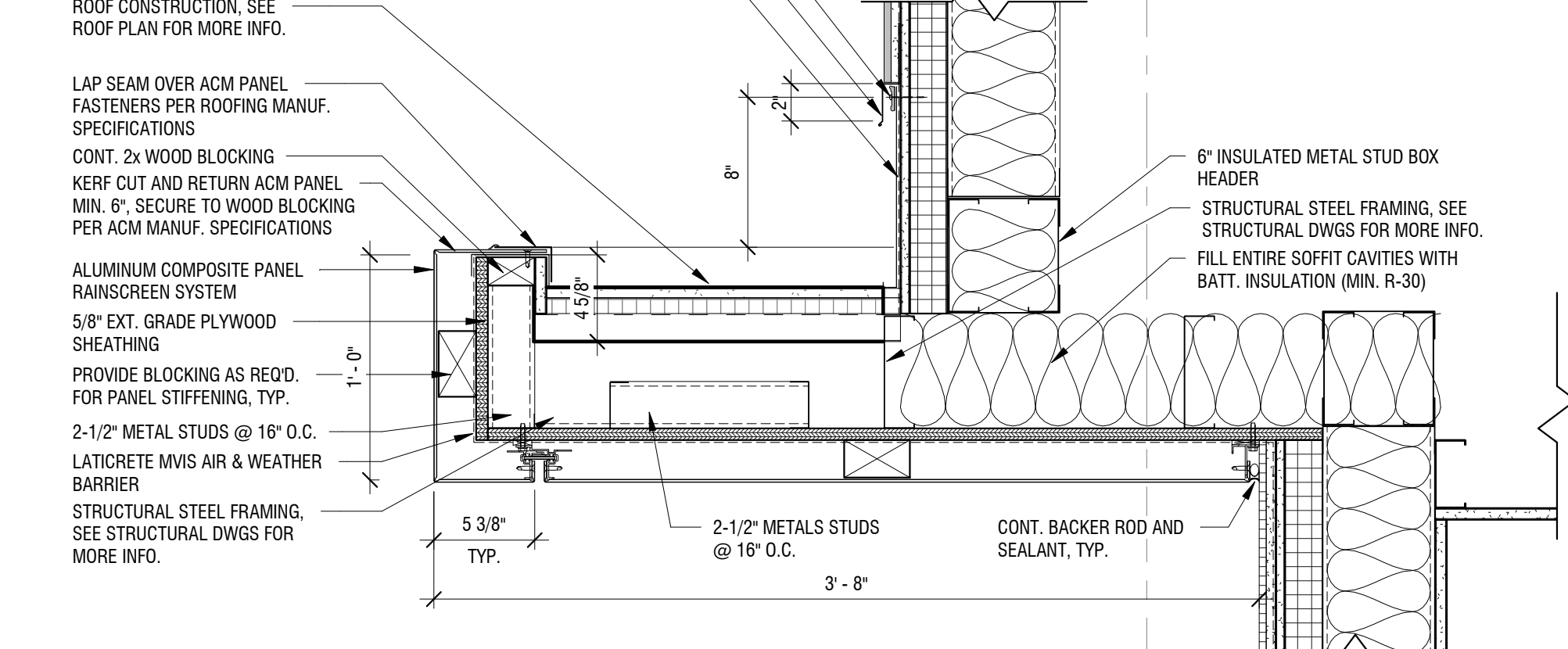
**2 SILL DETAIL - GLASS**  
A501 SCALE: 1 1/2" = 1'-0"



**11 BASE DETAIL - VESTIBULE**  
A501 SCALE: 1 1/2" = 1'-0"



**9 CANOPY DETAIL**  
A501 SCALE: 1 1/2" = 1'-0"



**10 CANOPY DETAIL**  
A501 SCALE: 1 1/2" = 1'-0"

2/5/2019 4:20:43 PM C:\Users\spatishiv\Documents\2181539 Bank on Buffalo NY Arch\_spatishiv.rvt

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **SP**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

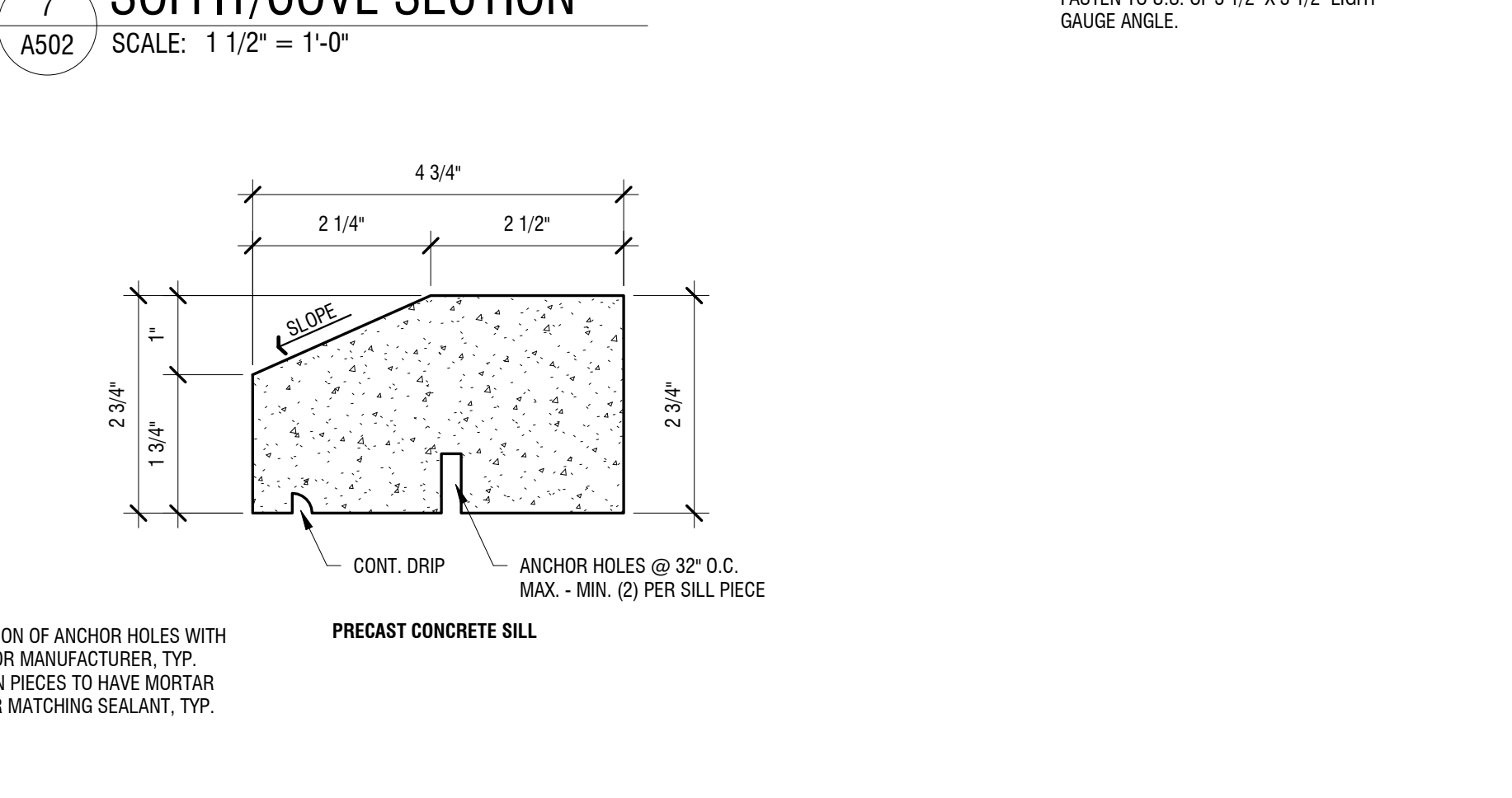
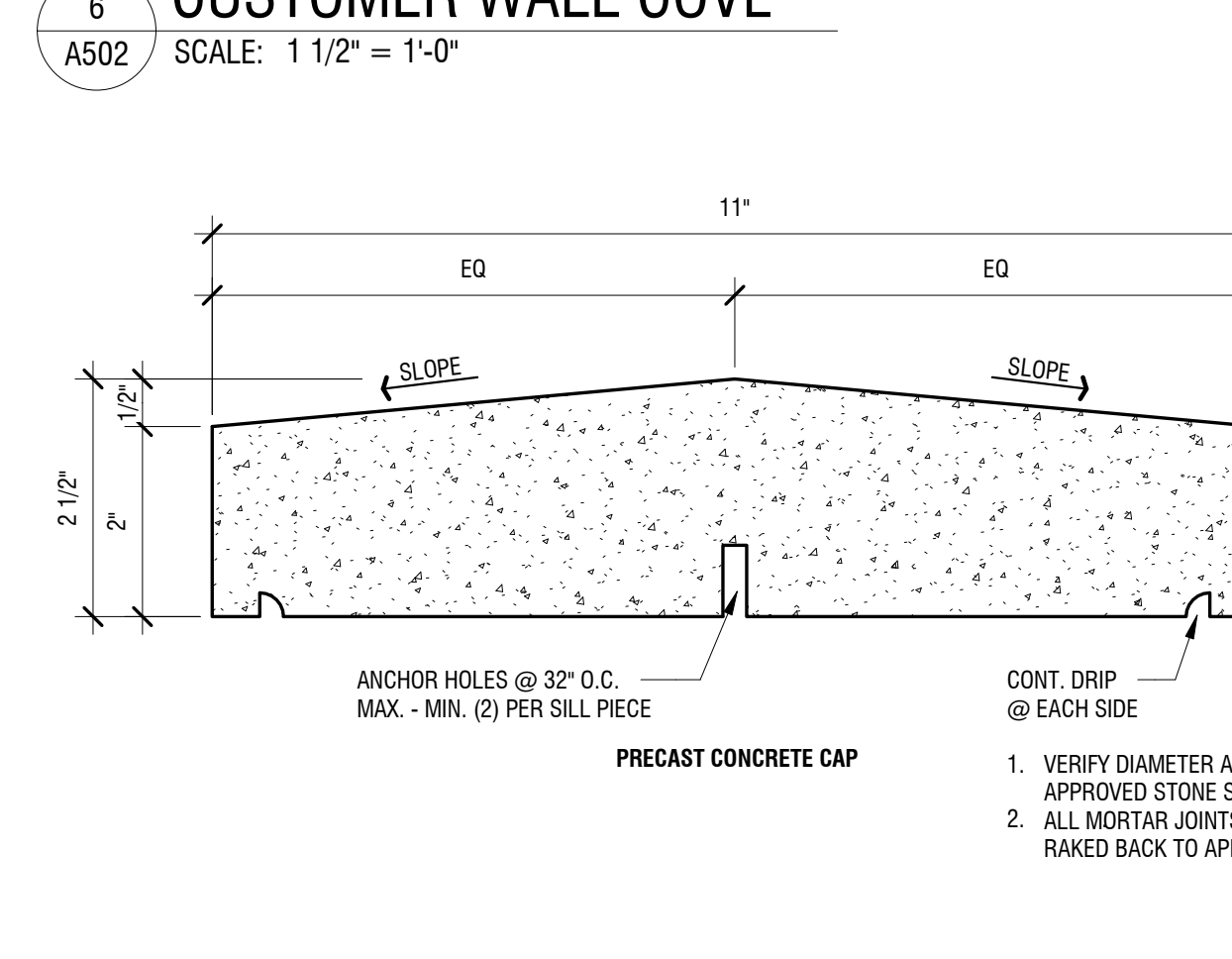
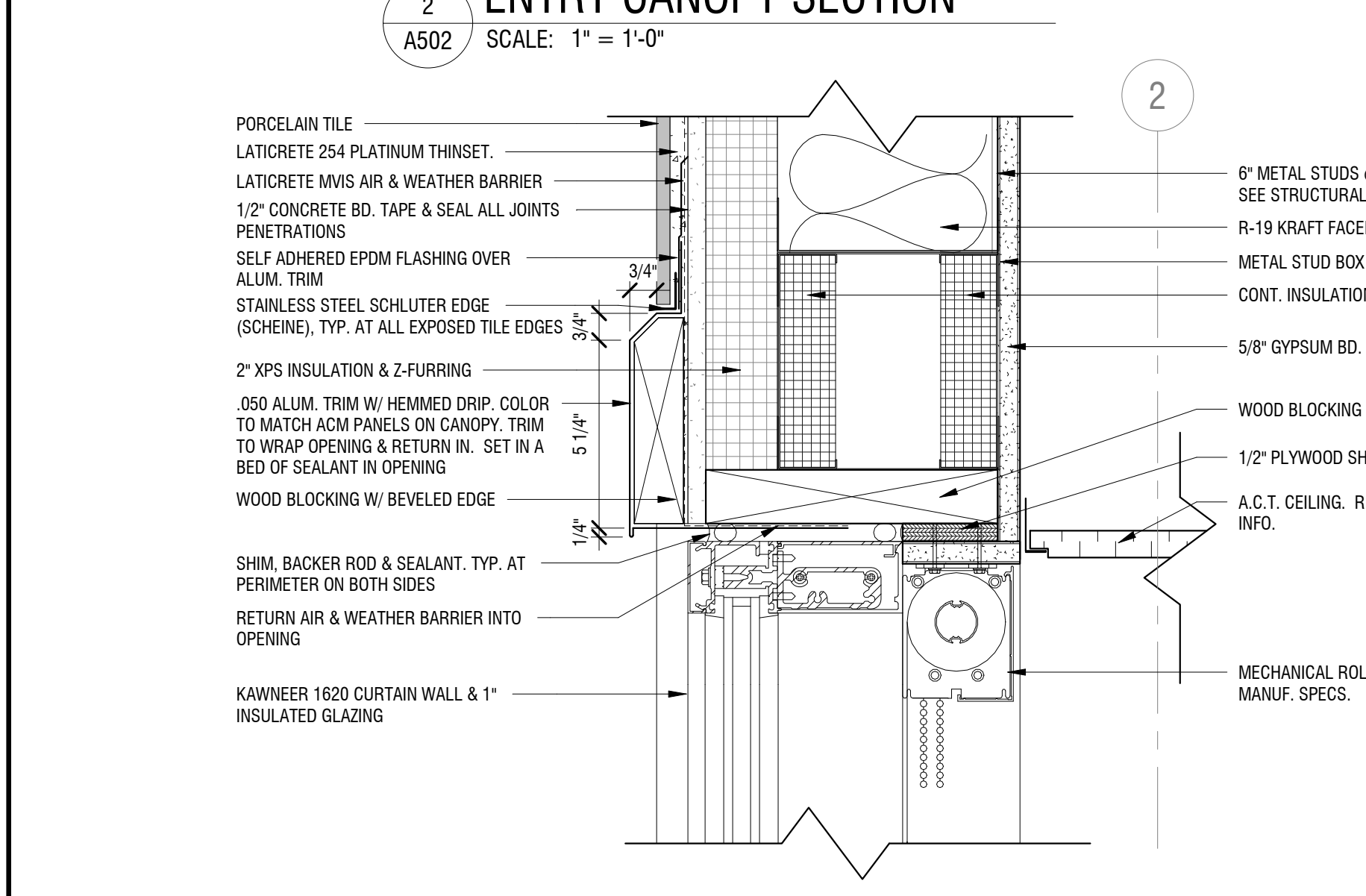
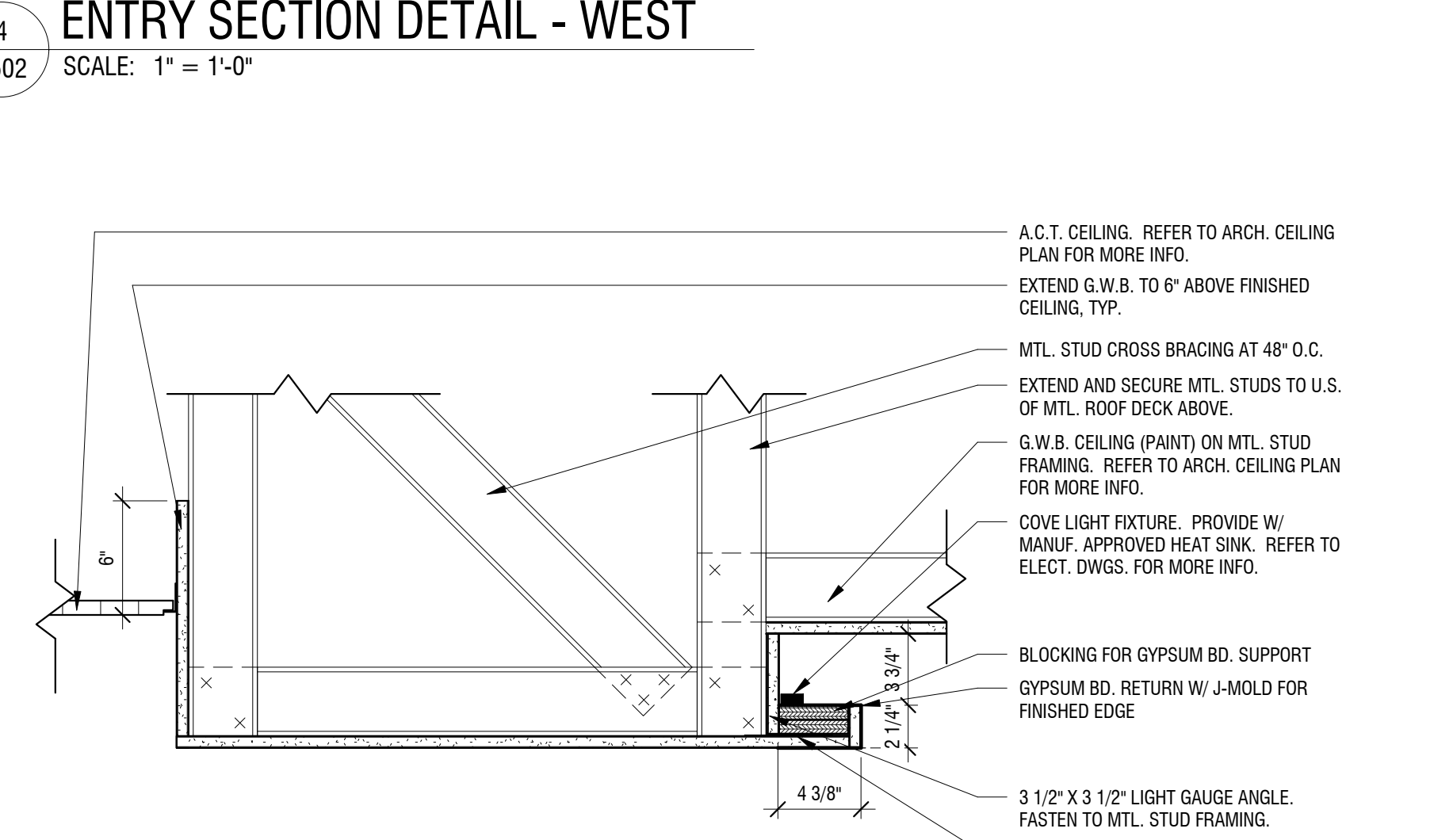
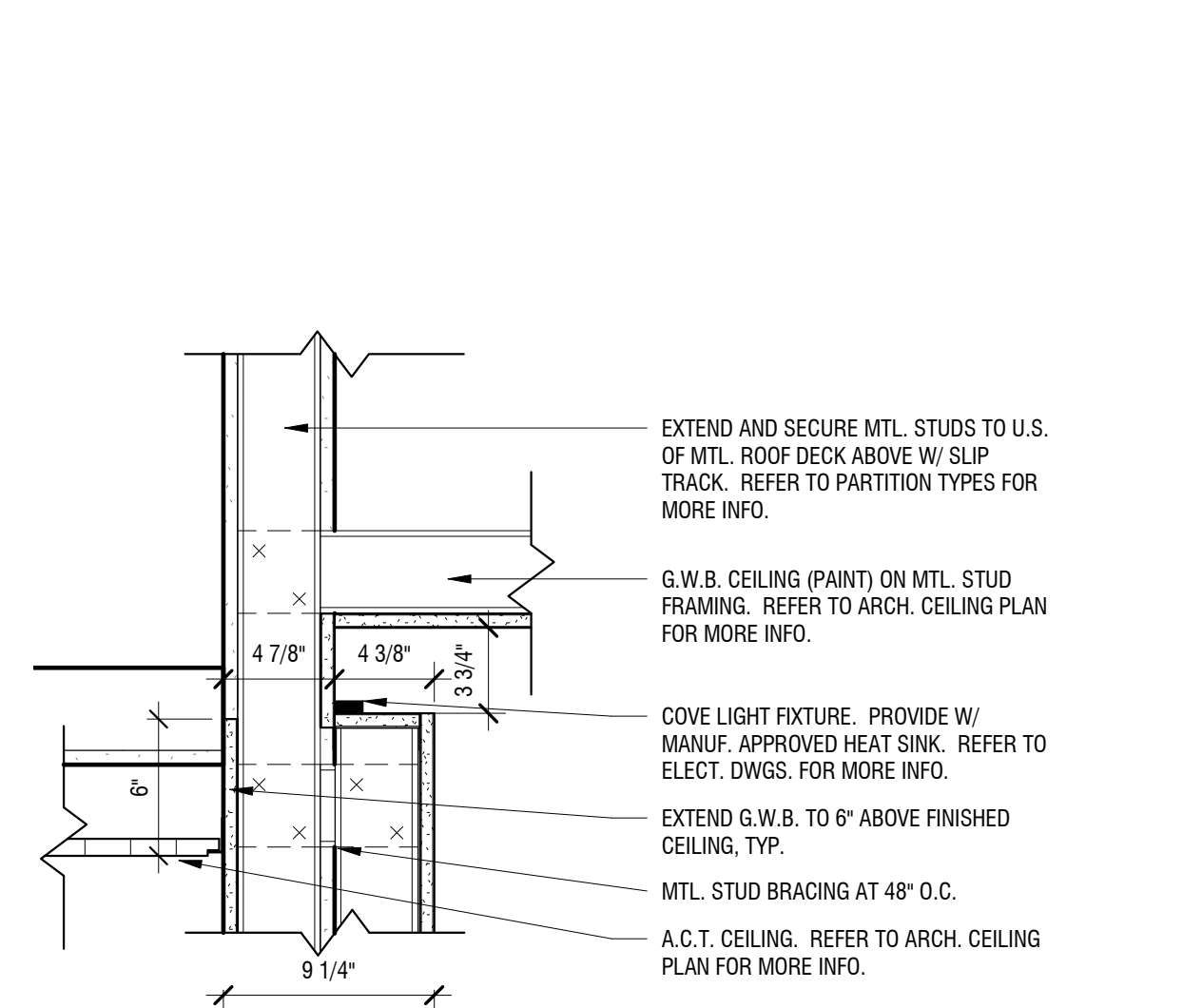
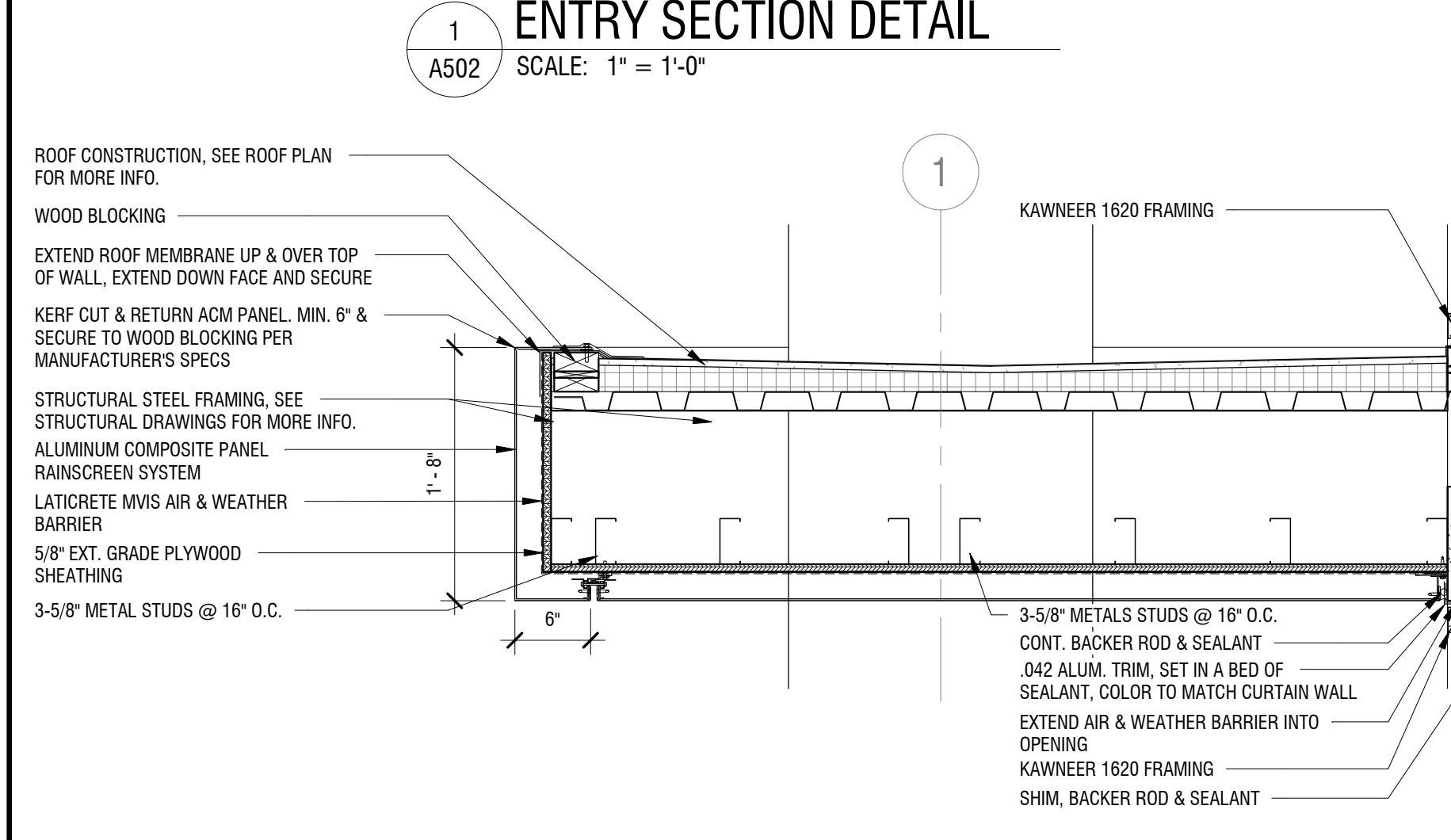
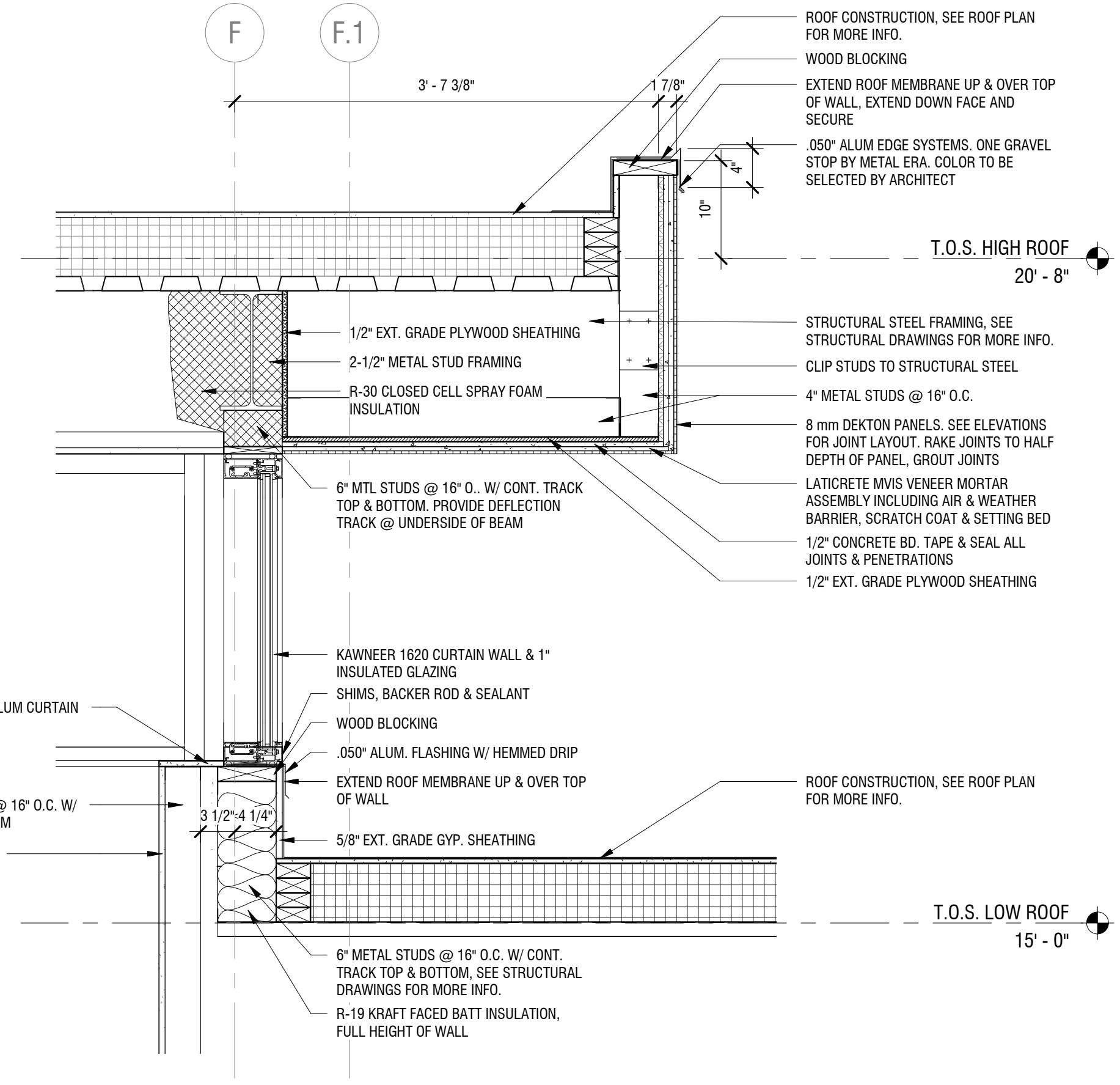
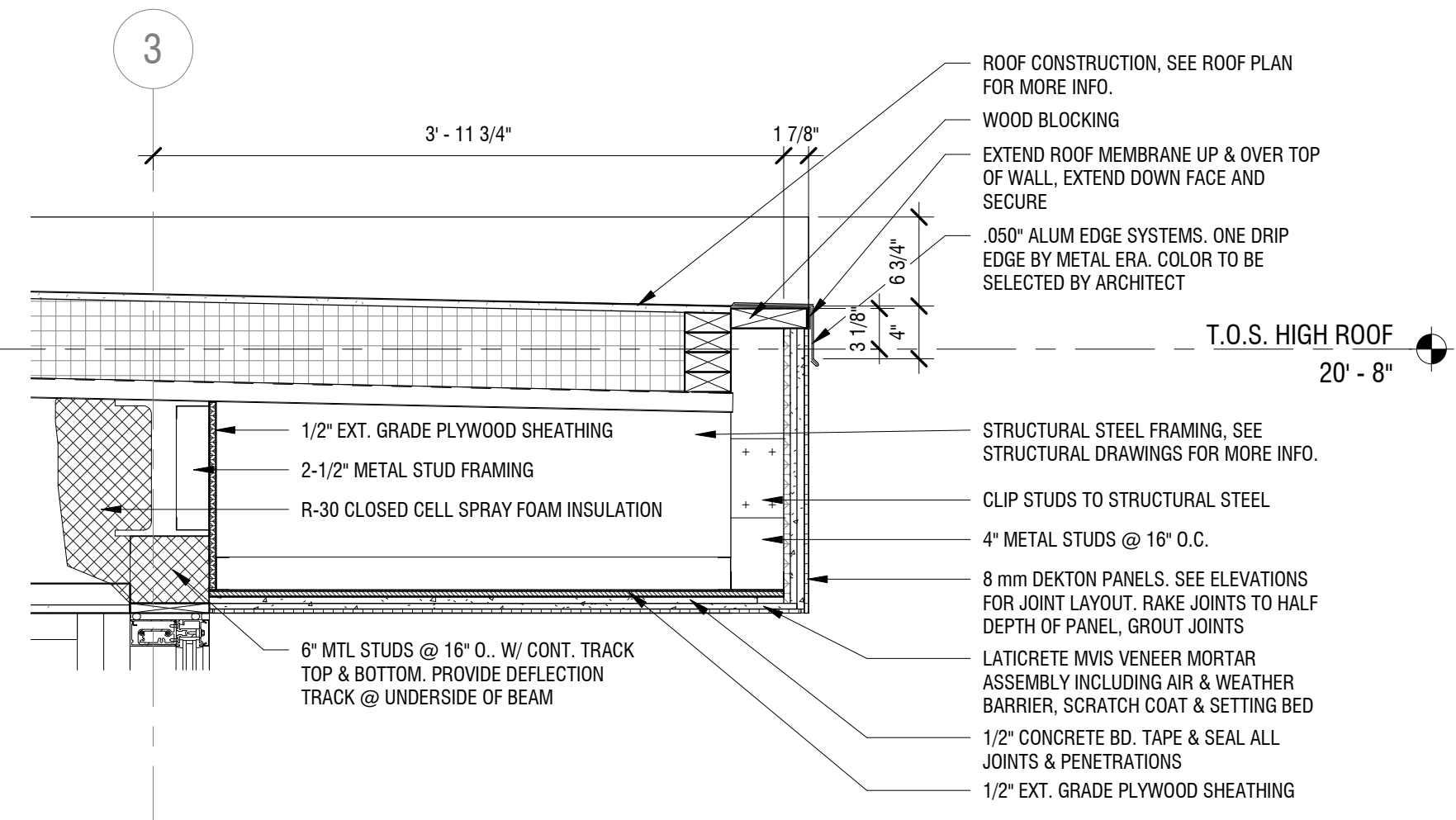
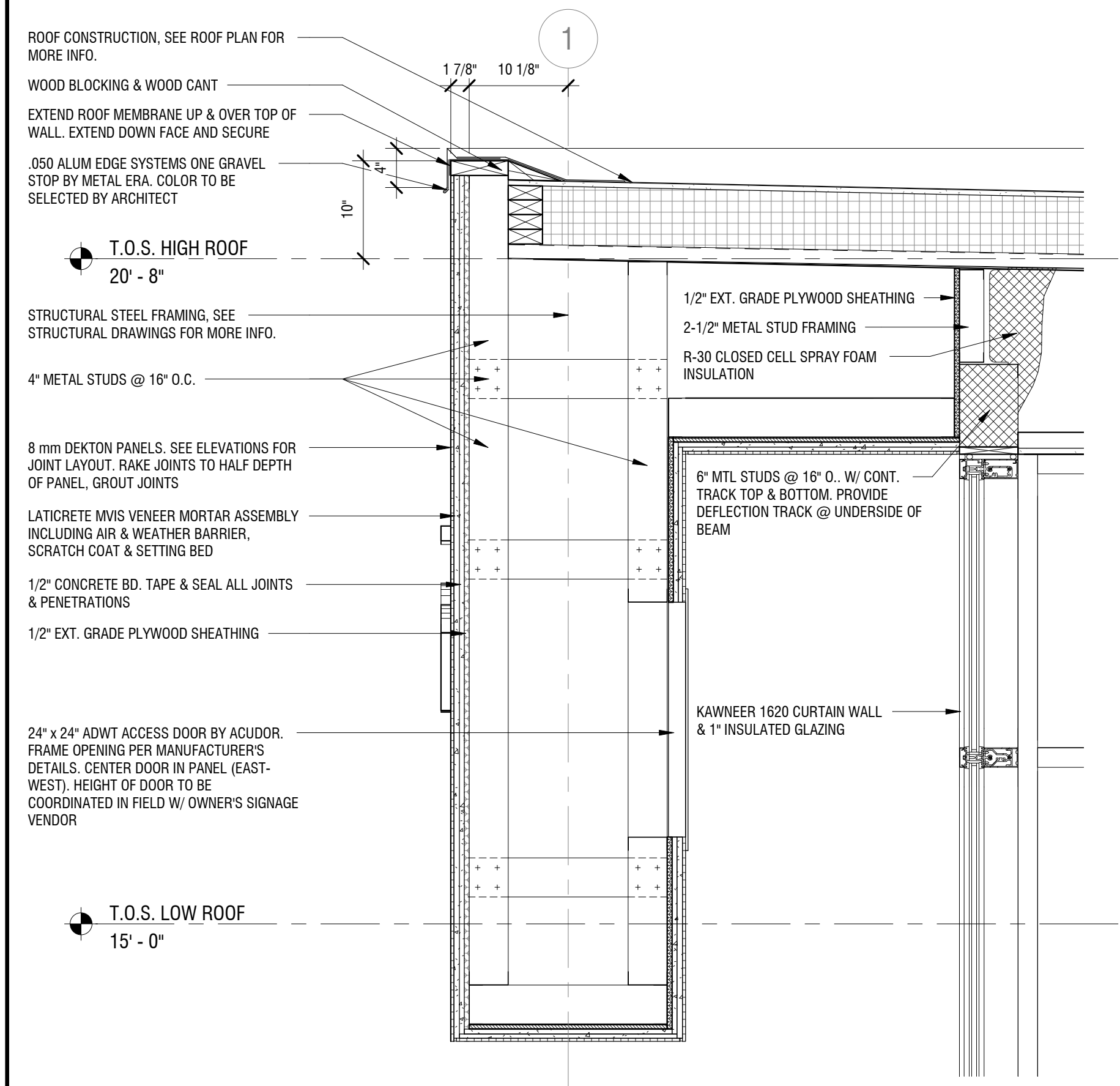
DATE: **25 JAN 2019**

DRAWING NAME:

**DETAILS**

DRAWING NUMBER:

**A502**



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **JMR**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

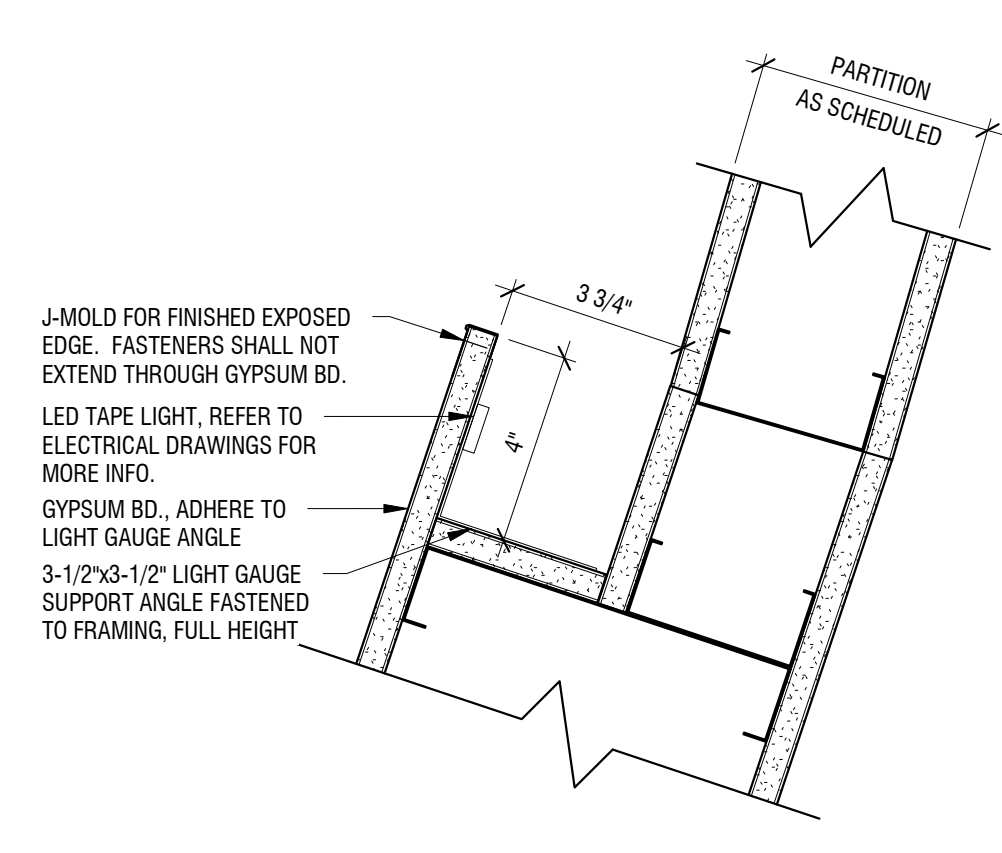
DATE: **25 JAN 2019**

DRAWING NAME:

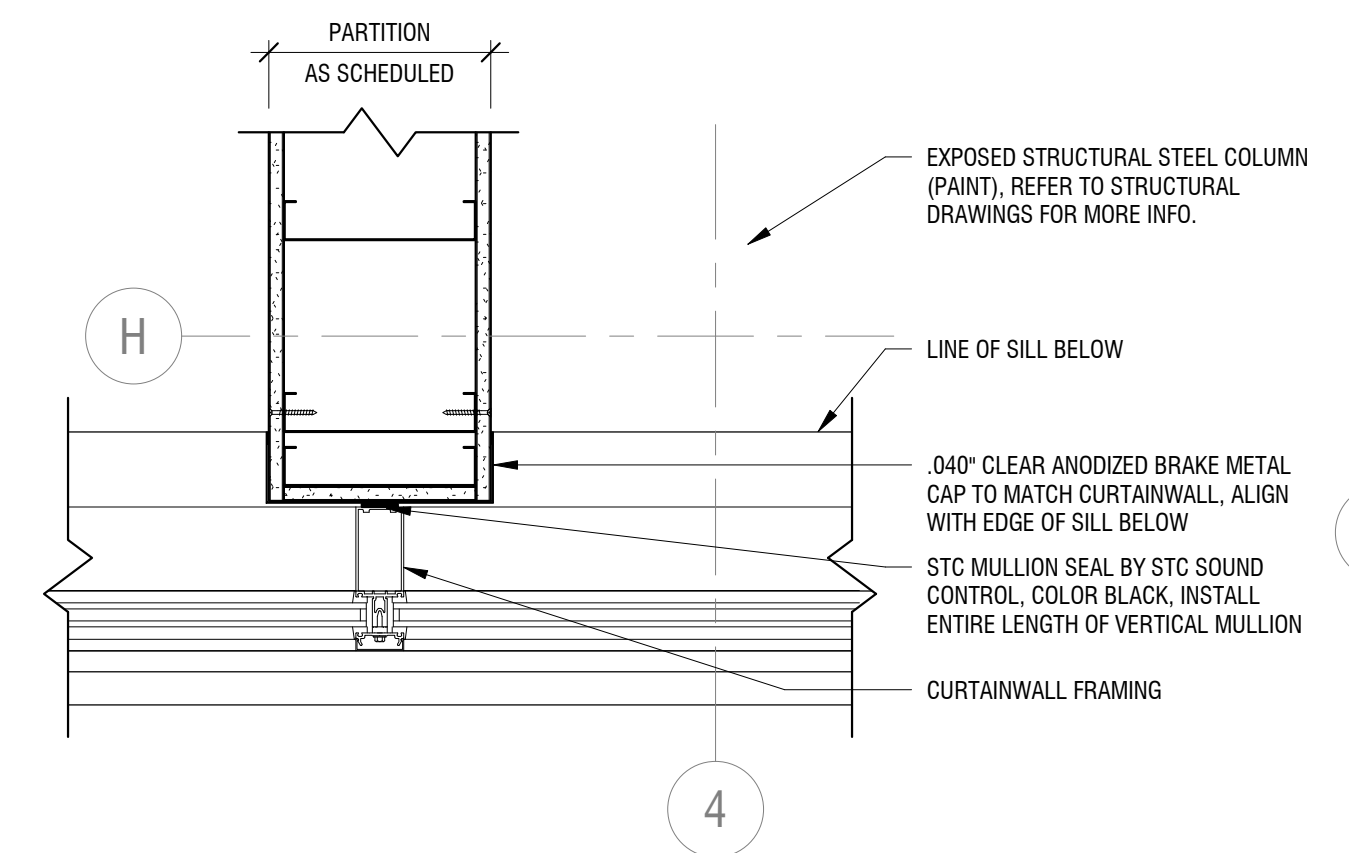
**DETAILS**

DRAWING NUMBER:

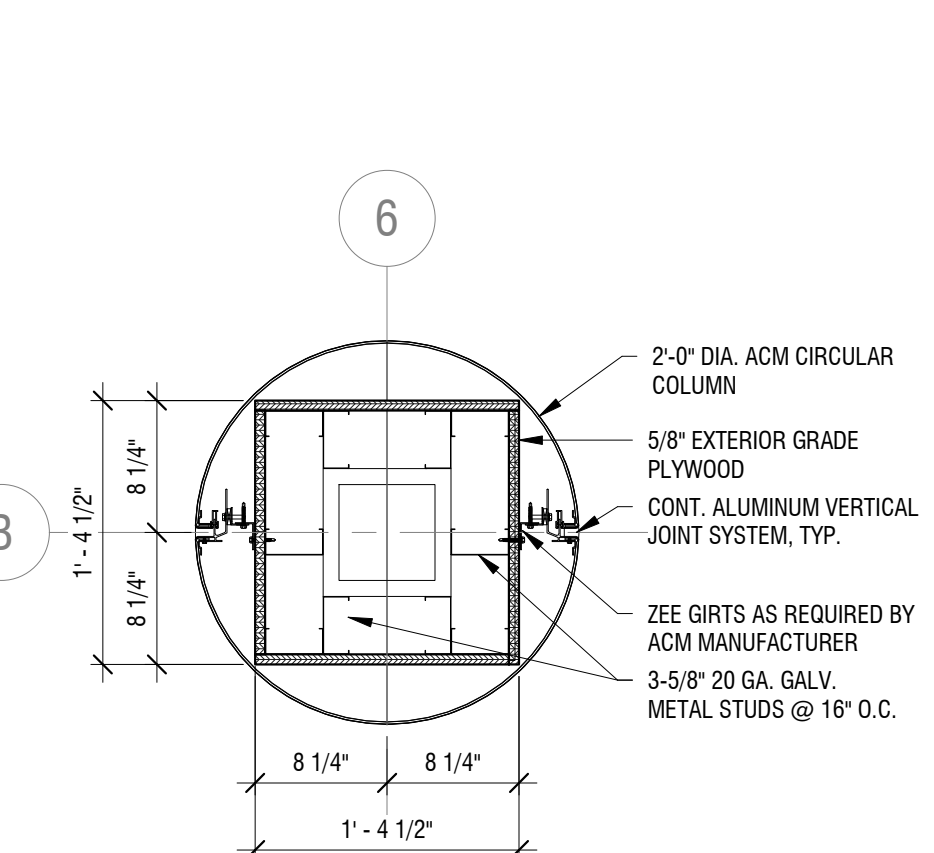
**A503**



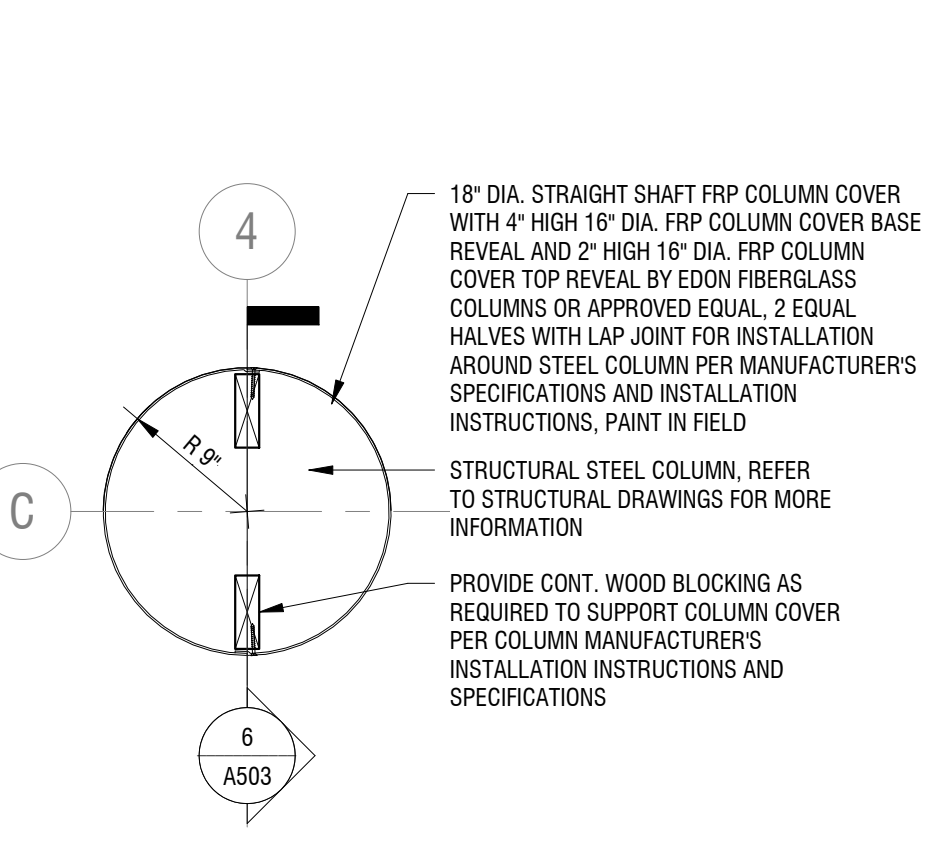
**1 VERTICAL COVE LIGHT DETAIL**  
A503 SCALE: 3" = 1'-0"



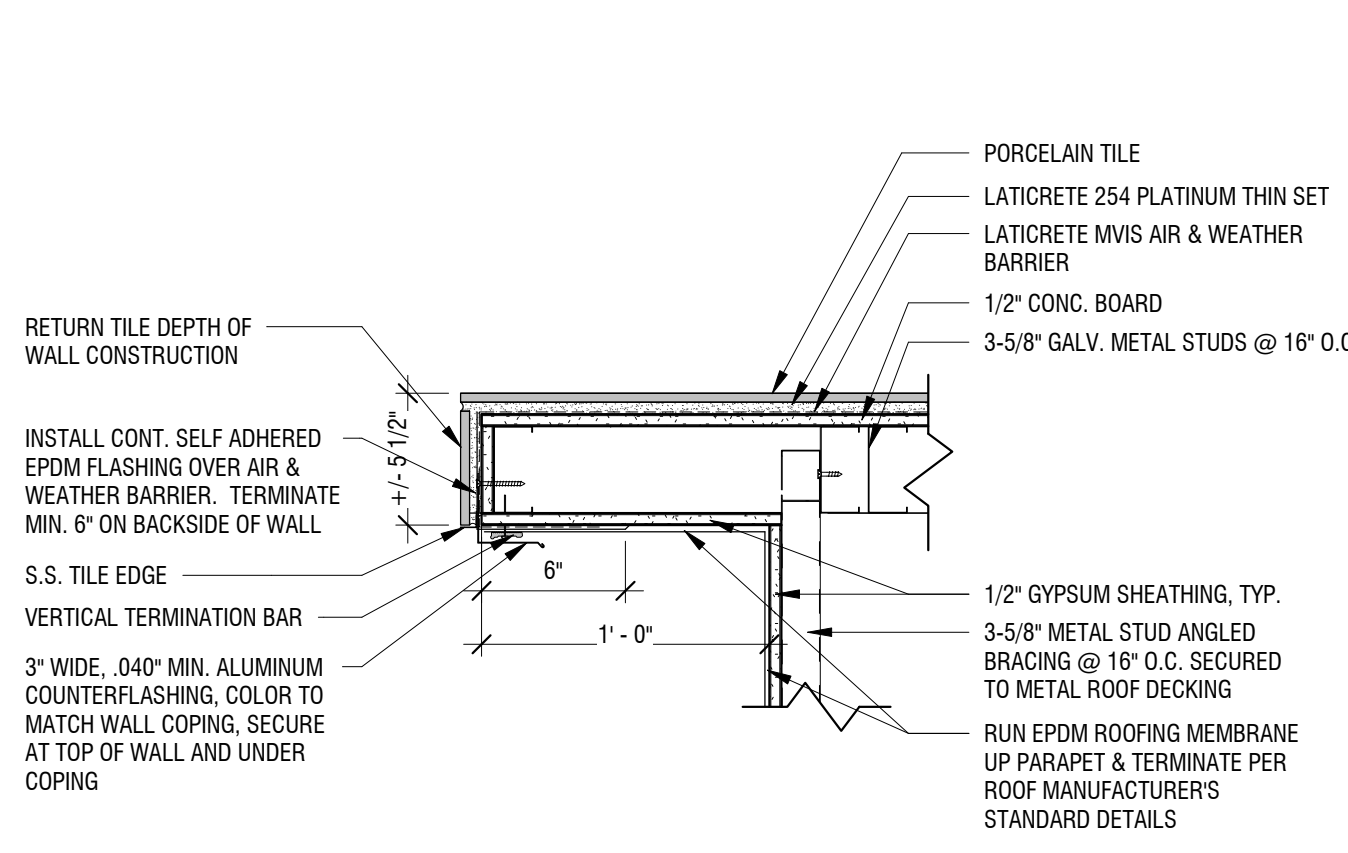
**2 WALL/MULLION DETAIL**  
A503 SCALE: 1 1/2" = 1'-0"



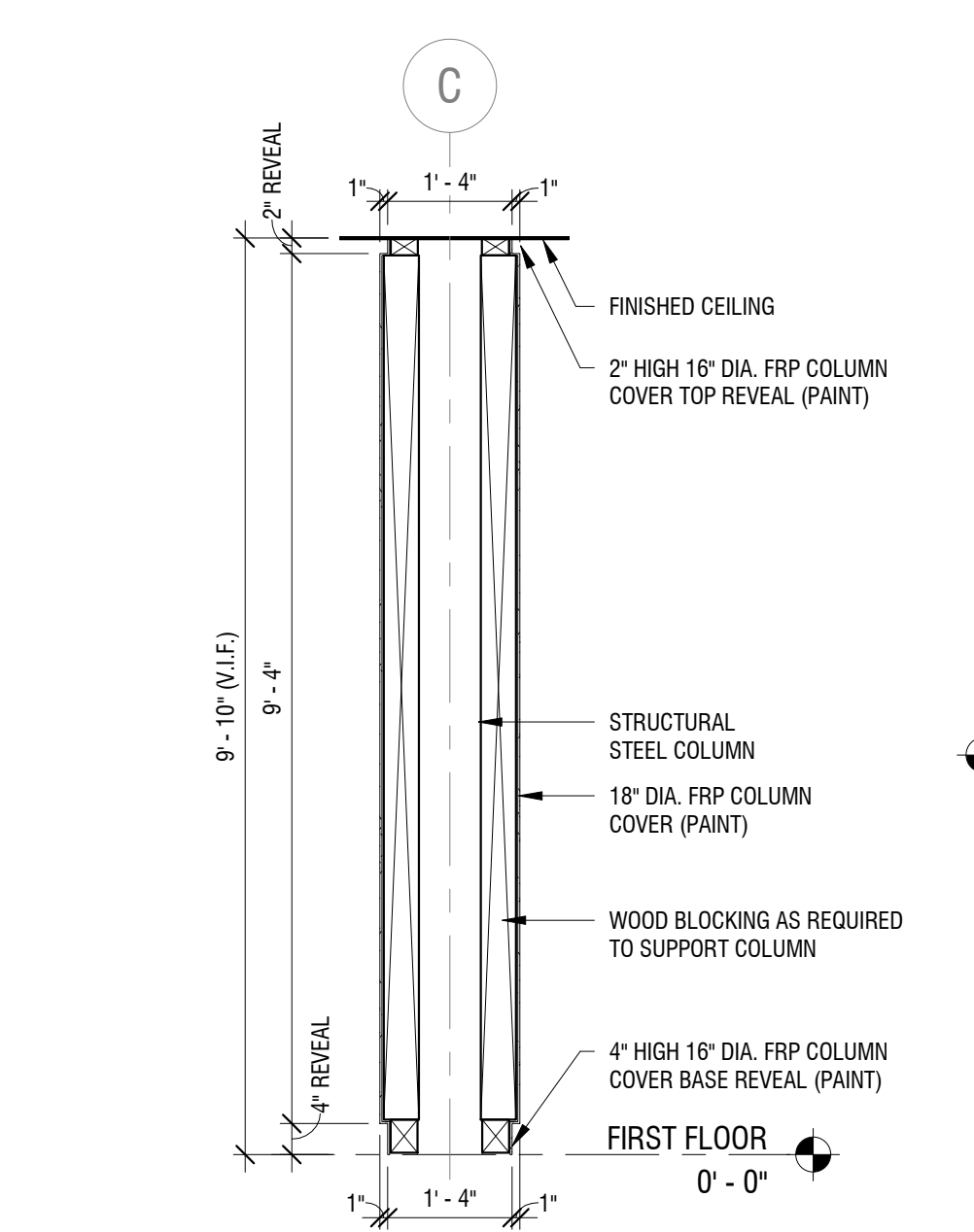
**3 ISLAND COLUMN DETAIL**  
A503 SCALE: 1" = 1'-0"



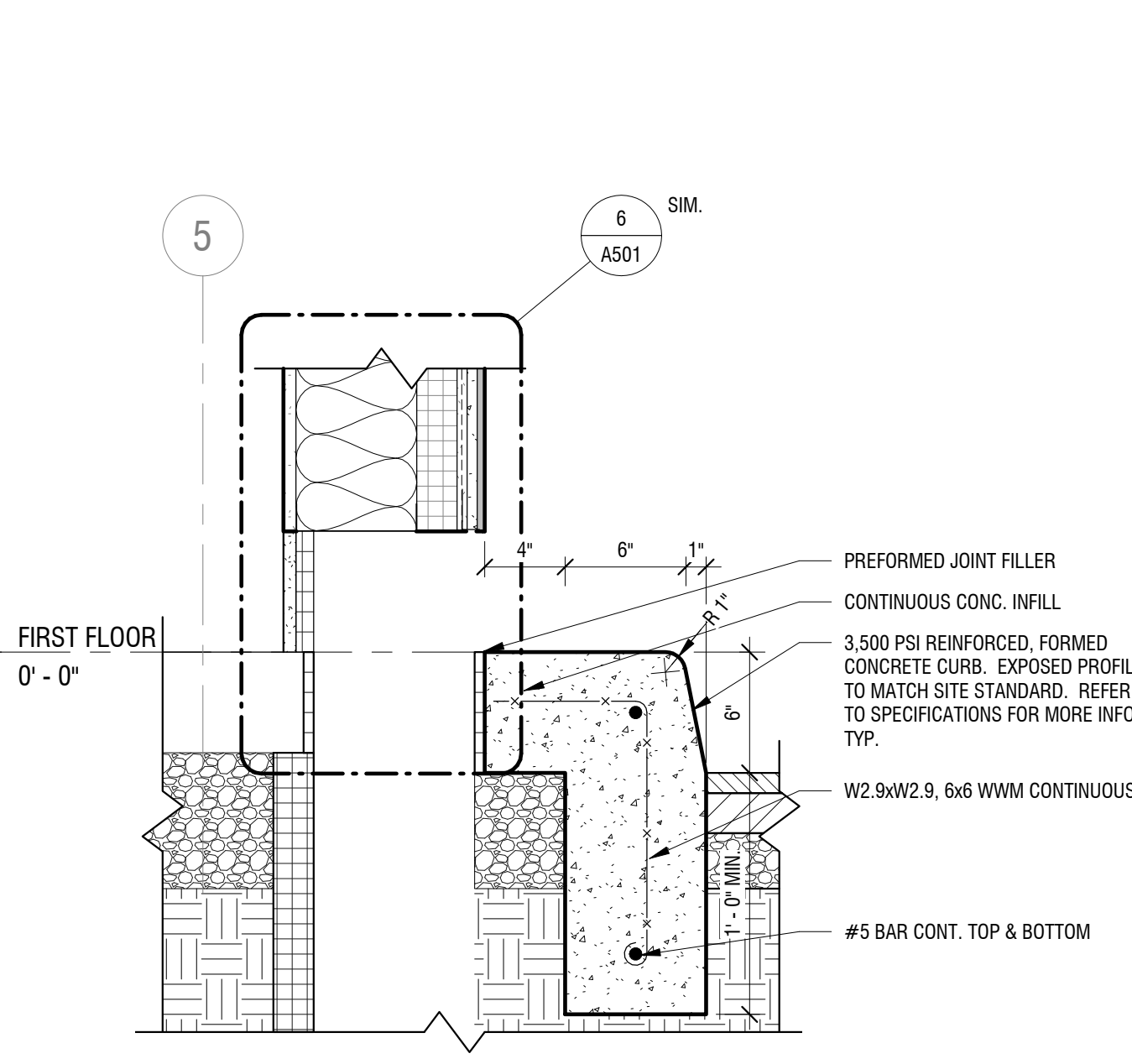
**4 INTERIOR COLUMN DETAIL**  
A503 SCALE: 1" = 1'-0"



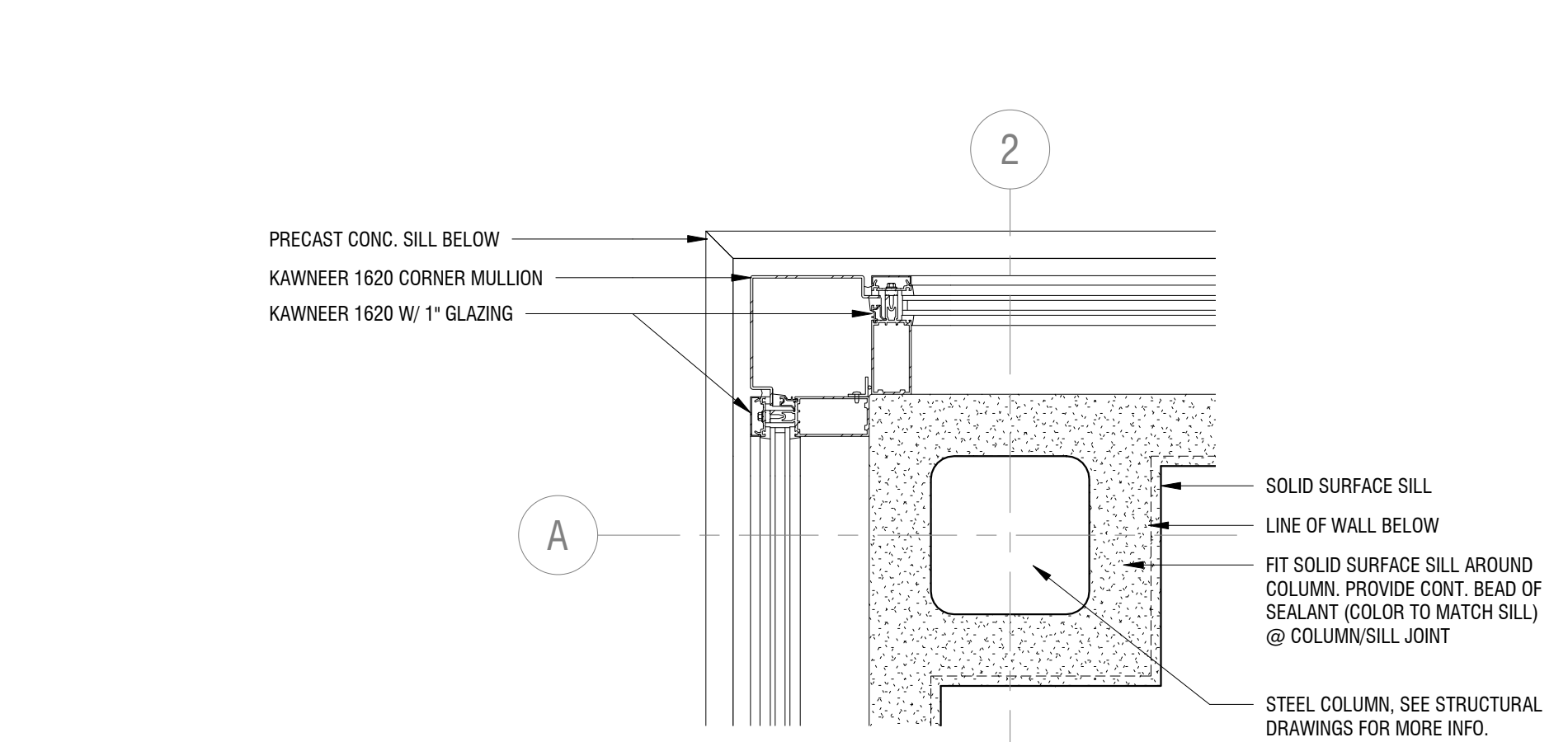
**5 ROOF PLAN DETAIL**  
A503 SCALE: 1 1/2" = 1'-0"



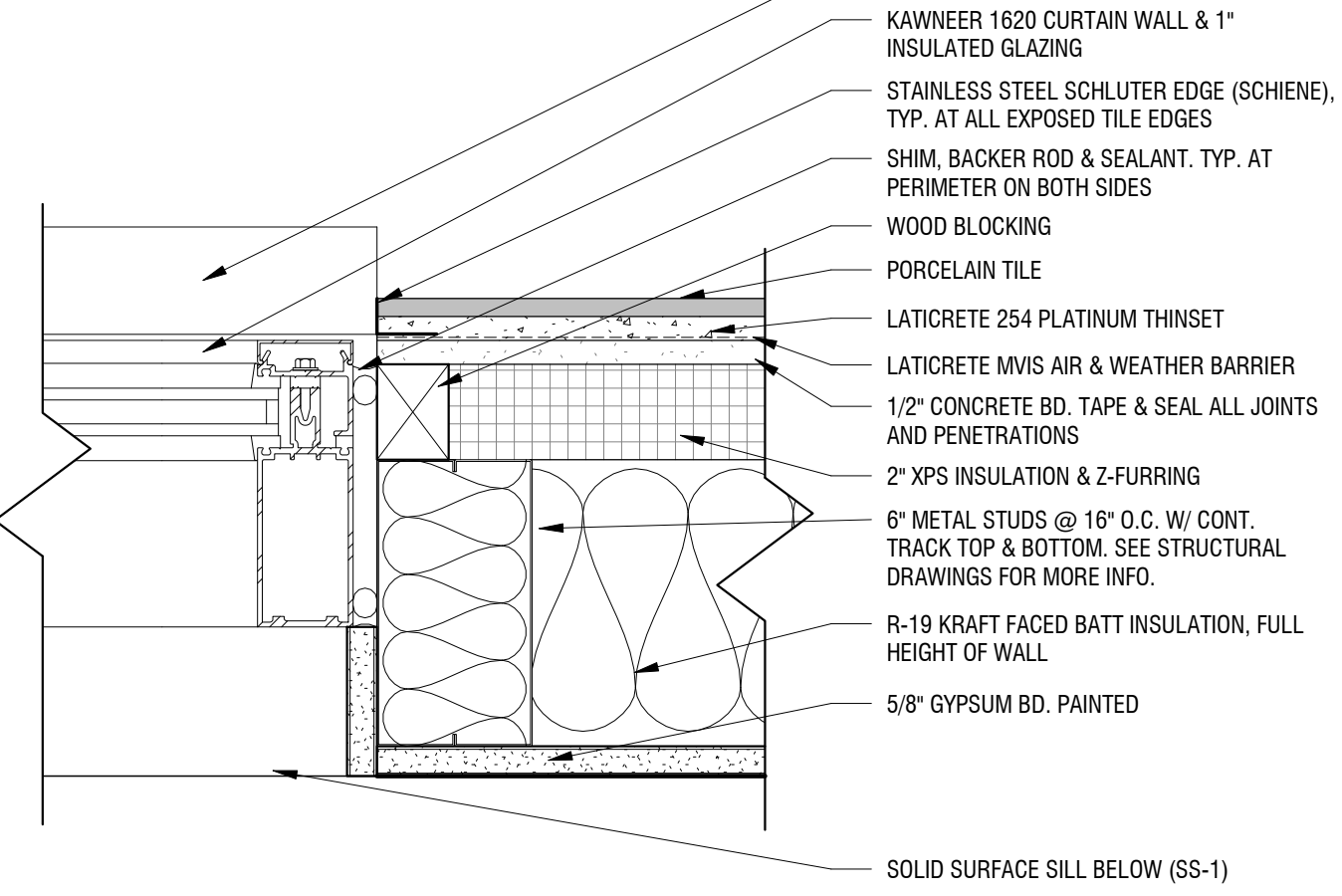
**6 INTERIOR COLUMN SECTION**  
A503 SCALE: 1/2" = 1'-0"



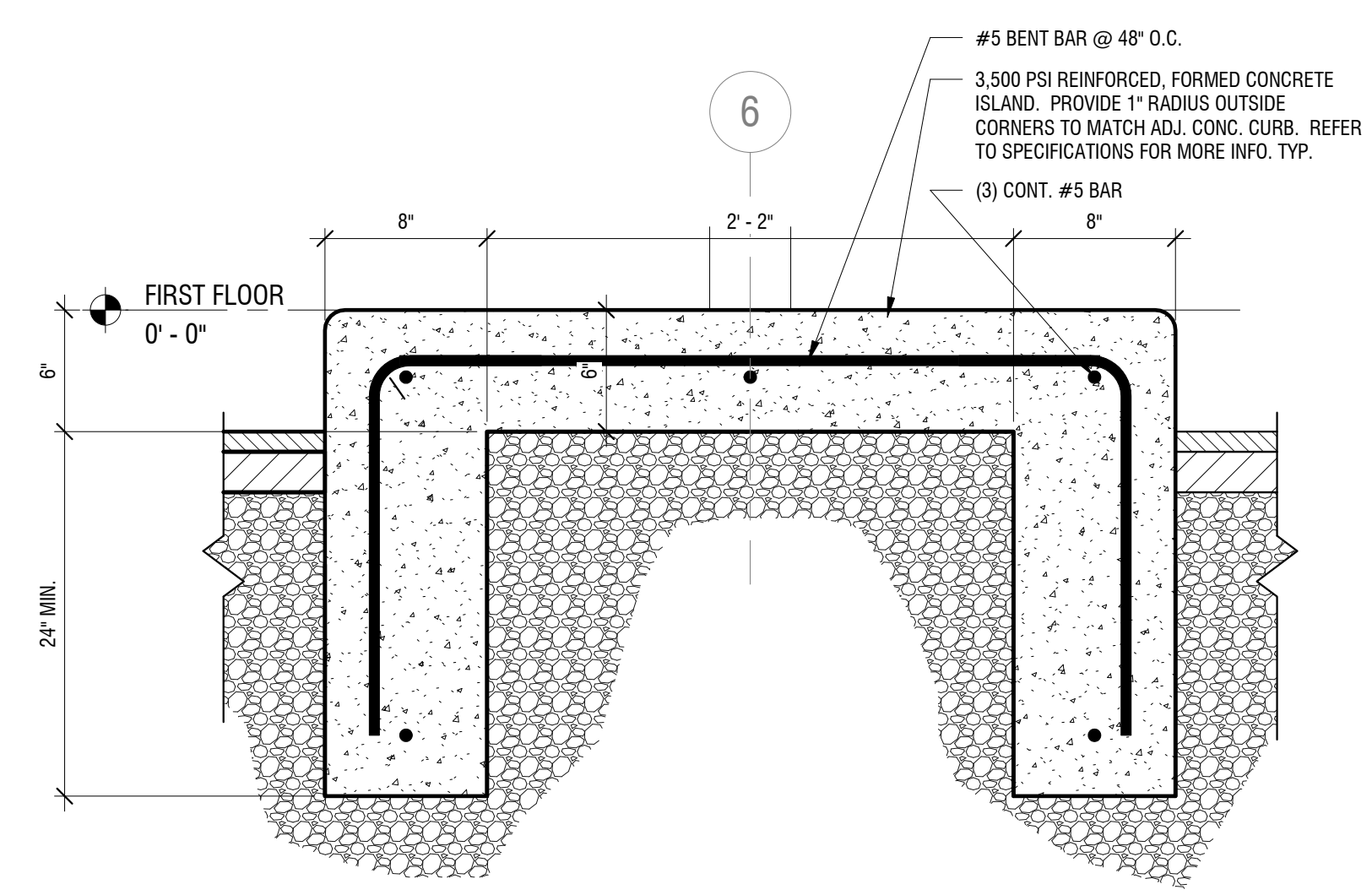
**7 CURB DETAIL**  
A503 SCALE: 1 1/2" = 1'-0"



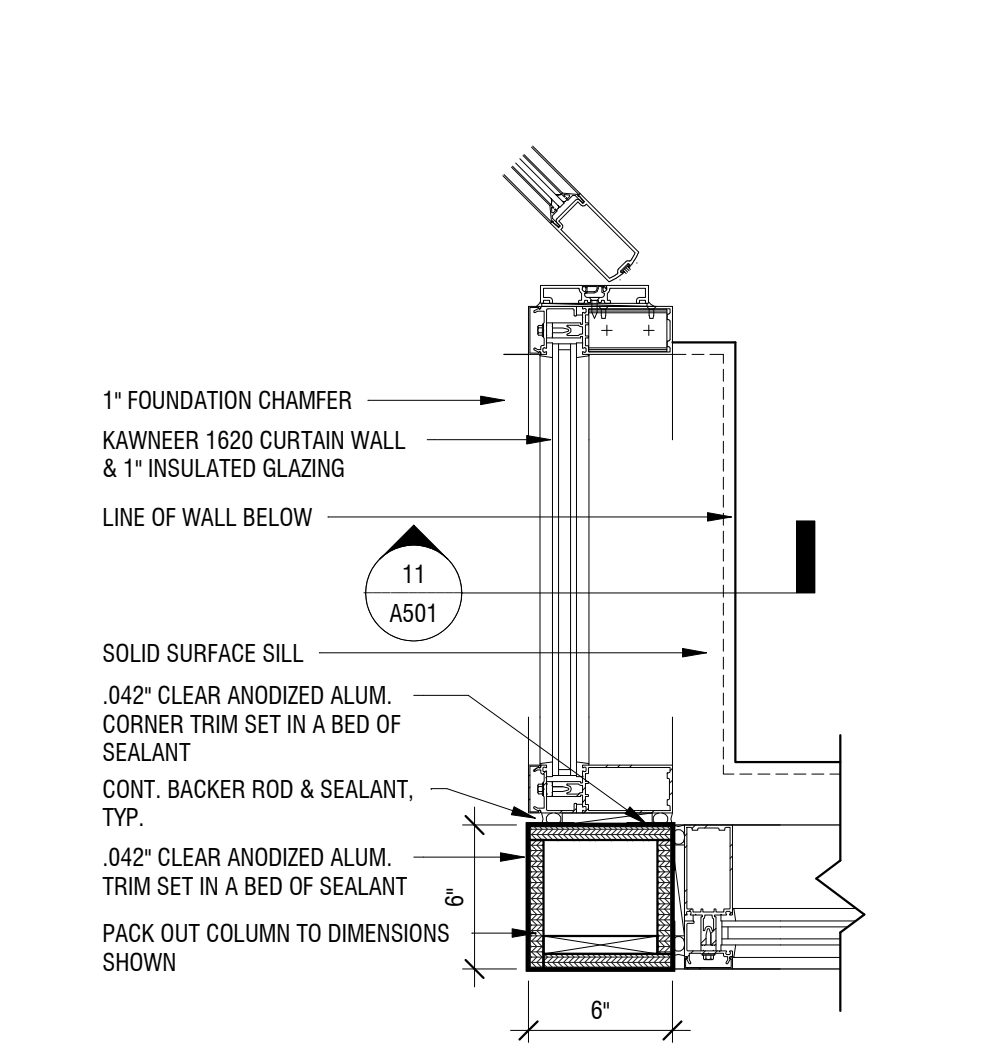
**9 COLUMN DETAIL**  
A503 SCALE: 1 1/2" = 1'-0"



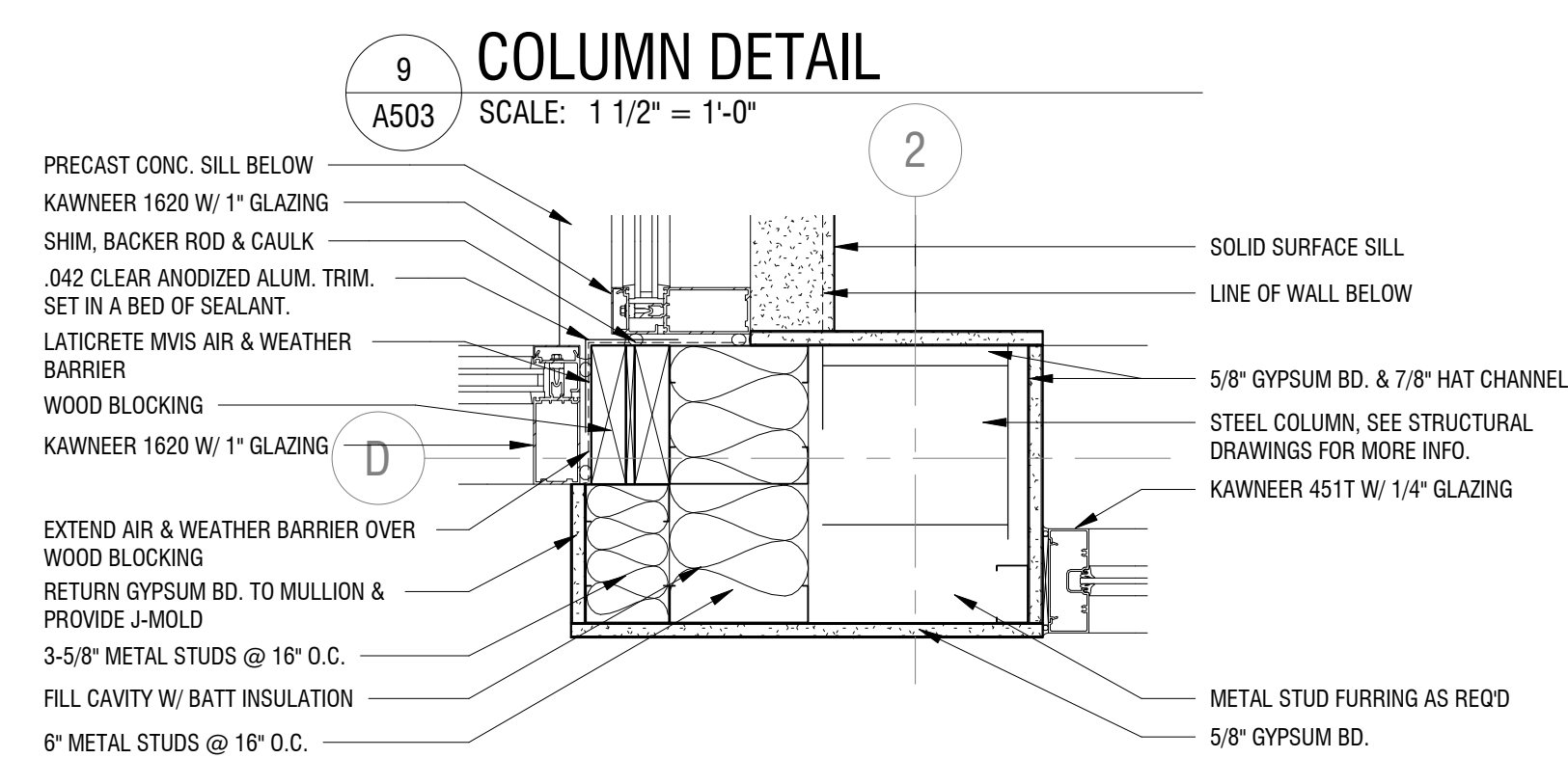
**12 WINDOW JAMB DETAIL**  
A503 SCALE: 3" = 1'-0"



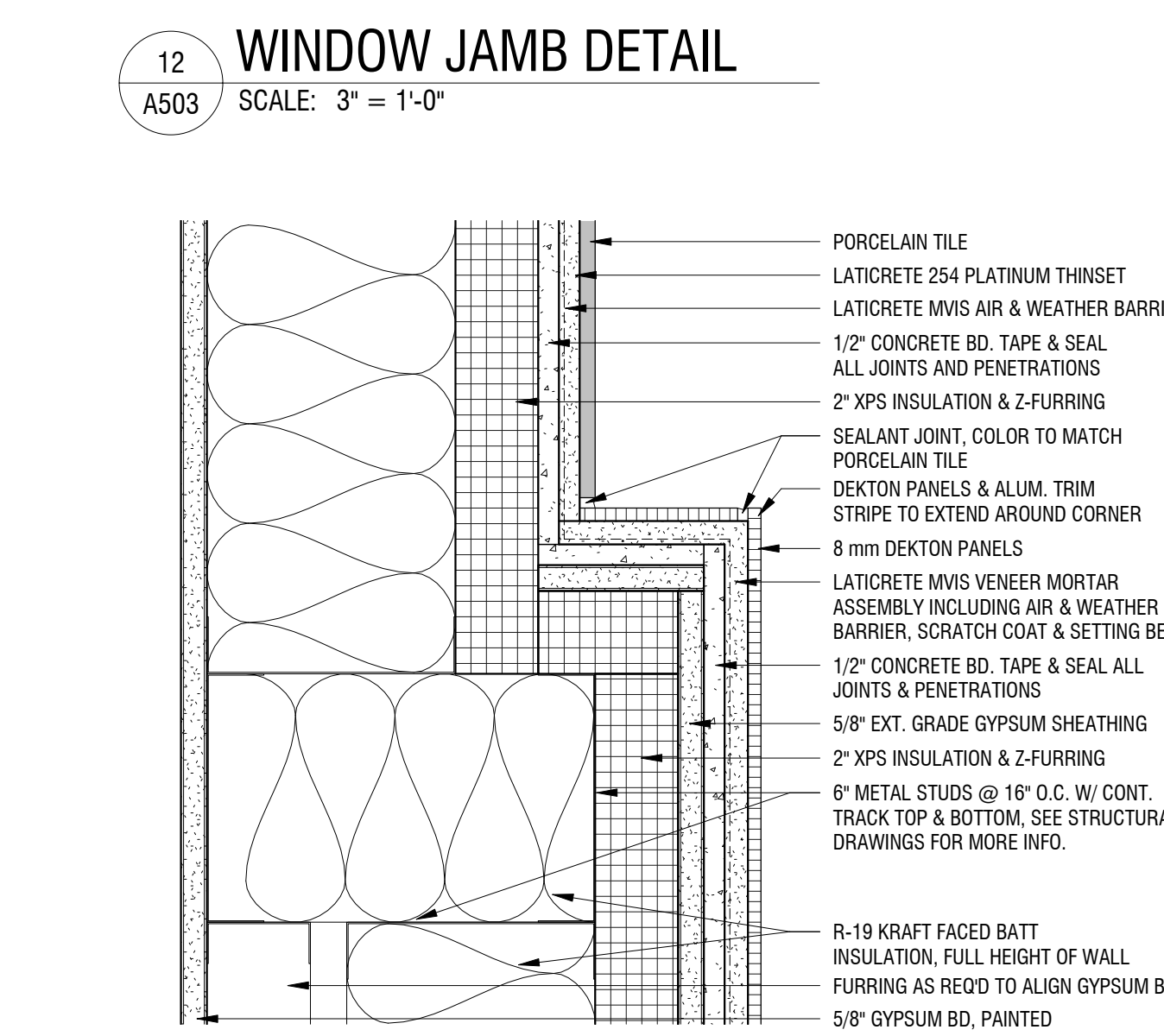
**8 DRIVE-THRU ISLAND SECTION**  
A503 SCALE: 1 1/2" = 1'-0"



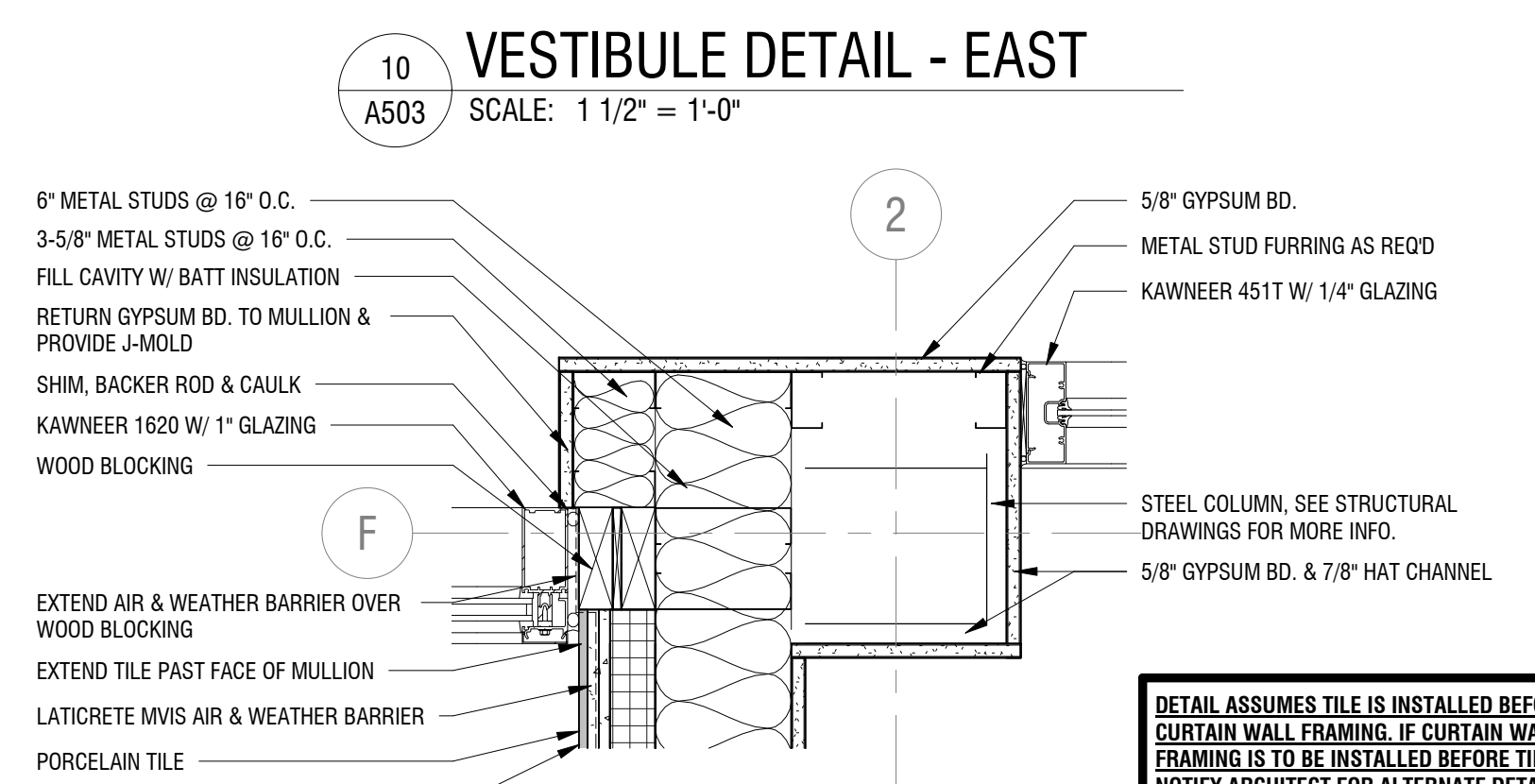
**15 VESTIBULE DETAIL - CORNER**  
A503 SCALE: 1 1/2" = 1'-0"



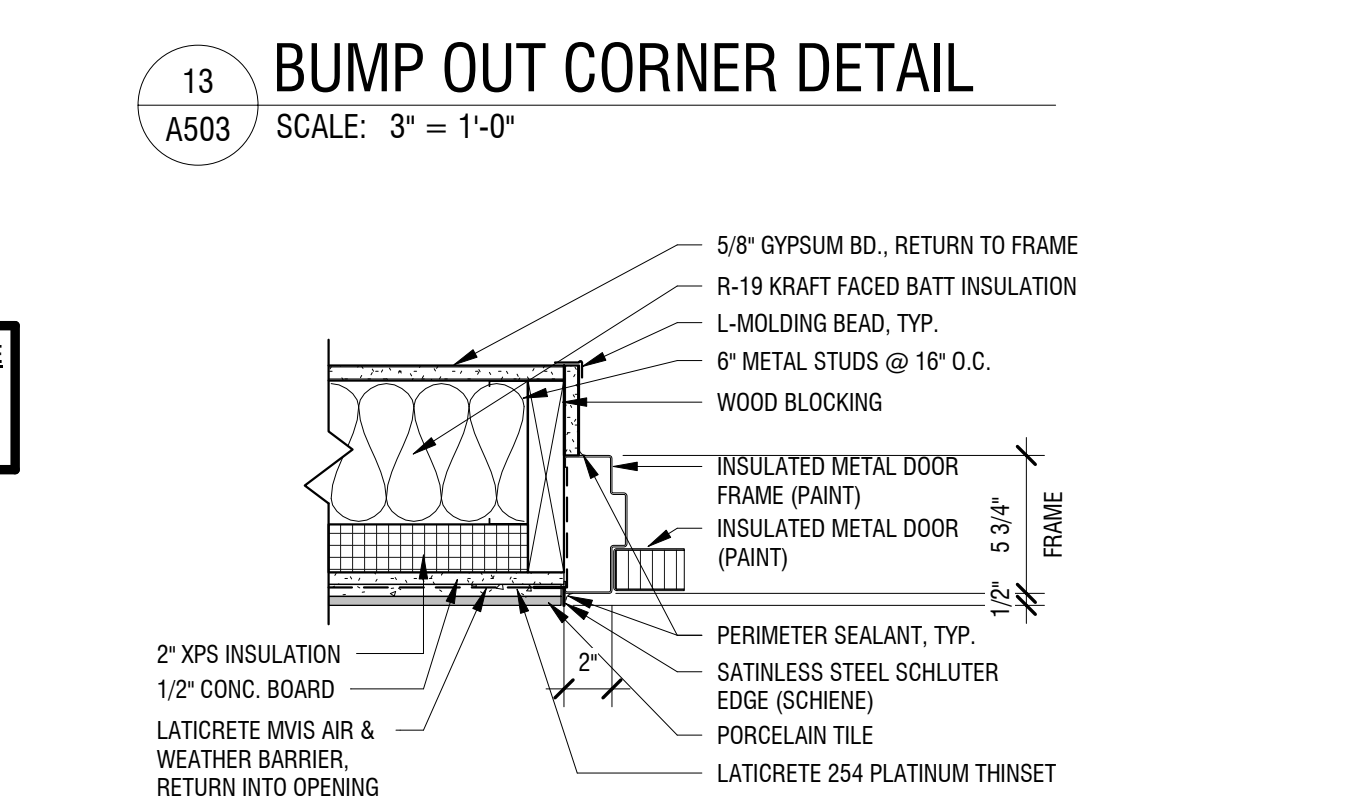
**10 VESTIBULE DETAIL - EAST**  
A503 SCALE: 1 1/2" = 1'-0"



**13 BUMP OUT CORNER DETAIL**  
A503 SCALE: 3" = 1'-0"



**11 VESTIBULE DETAIL - WEST**  
A503 SCALE: 1 1/2" = 1'-0"



**14 H.M. DOOR JAMB DETAIL (HEAD SIM.)**  
A503 SCALE: 1 1/2" = 1'-0"

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DRAWN BY: **JMR**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

DATE: **25 JAN 2019**

DRAWING NAME:

**DOOR AND WINDOW TYPES, SCHEDULES AND LEGENDS**

DRAWING NUMBER:

**A601**

DOOR SCHEDULE														
NO.	TYPE	DOOR			FRAME			HEAD	JAMB	THRESH	GLAZING	HARDWARE	COMMENTS	
		WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL							FINISH
101	D1	(2) 3'-0"	8'-0"	ALUM	CLEAR ANODIZED	F1	ALUM.	CLEAR ANODIZED	H1	J1	T1	G1	1	
107	D2	3'-0"	7'-0"	MTL INSUL.	P.AINT	F2	MTL INSUL.	P.AINT	H2	J2	T1		2	SEE DETAIL 14/A503 FOR HEAD & JAMB
108-1	D3	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			7	
108-2	D3	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			3	
109	D3	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			5	
110	D3	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			5	
111	D3	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			7	
112	D3	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			3	
113-1	D2	3'-0"	7'-0"	MTL INSUL.	P.AINT	F2	MTL INSUL.	P.AINT	H2	J2	T1		2	SEE DETAIL 14/A503 FOR HEAD & JAMB
113-2	D4	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3		G3 (6" X 36")	7	NO WALL STOP
114	D3	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			8	SEE MILLWORK DETAILS
115	D5	3'-0"	3'-6"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			9	NO WALL STOP
116	D3	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			10	
117	D3	(2) 3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			3	
118	D3	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3			7	
119	D4	3'-0"	7'-0"	WOOD	P.LAM.	F3	HM	P.AINT	H3	J3		G3 (6" X 36")	7	PROVIDE GLAZING FILM. SEE WINDOW ELEVATIONS FOR MORE INFORMATION.
120	D6	3'-0"	8'-0"	ALUM	CLEAR ANODIZED	F1	ALUM.	CLEAR ANODIZED	H4	J4			4	PROVIDE GLAZING FILM. SEE WINDOW ELEVATIONS FOR MORE INFORMATION.
121	D6	3'-0"	8'-0"	ALUM	CLEAR ANODIZED	F1	ALUM.	CLEAR ANODIZED	H4	J4 & J5			4	PROVIDE GLAZING FILM. SEE WINDOW ELEVATIONS FOR MORE INFORMATION.
123	D1	(2) 3'-0"	8'-0"	ALUM	CLEAR ANODIZED	F1	ALUM.	CLEAR ANODIZED	H4	J5			6	

**HARDWARE GROUPS:**

- GROUP 1**
- 2 PAIR BUTT HINGES (KAWNEER 4 1/2" X 4" NRP) EACH LEAF
  - 1 PUSH BAR (KAWNEER CP-II) EACH LEAF
  - 1 PULL (KAWNEER CO-12) EACH LEAF
  - 1 CLOSER (LCN 4040) EACH LEAF, ALUM. FINISH
  - 1 DEADLOCK WITH EXIT INDICATOR (ADAMS RITE MS1850S & 4089) ACTIVE LEAF, CLEAR ANODIZED
  - 1 DEADLATCH WITH PADDLE (ADAMS RITE 4510 & 4590) ACTIVE LEAF, CLEAR ANODIZED
  - 1 SET FLUSH BOLTS, TOP & BOTTOM, INACTIVE LEAF
  - 1 THRESHOLD, THERMALLY BROKEN, ADA COMPLIANT, MILL FINISH
  - 1 FLOOR STOP, EACH LEAF
  - 1 SWEEP (KAWNEER)
  - WEATHERSTRIPPING (KAWNEER)
- GROUP 2**
- 1 1/2 PAIR BUTT HINGES
  - 1 RIM PANIC EXIT DEVICE W/ EXT. LEVER
  - 1 CLOSER
  - 1 ELECTRIC STRIKE (COORDINATE W/ EXIT DEVICE)
  - 1 DOOR SCOPE
  - 1 THRESHOLD (HAGER) THERMALLY BROKEN, ADA COMPLIANT, MILL FINISH
  - 1 SWEEP (KAWNEER)
- GROUP 3**
- 1 1/2 PAIR BUTT HINGES
  - 1 LOCKSET, STOREROOM FUNCTION
  - 1 ELECTRIC STRIKE
  - 1 CLOSER
  - 1 WALL STOP
- GROUP 4**
- 2 PAIR BUTT HINGES (KAWNEER 4 1/2" X 4" NRP) EACH LEAF
  - 1 PUSH BAR (KAWNEER CP-II) EACH LEAF
  - 1 PULL (KAWNEER CO-12) EACH LEAF
  - 1 CLOSER WITH HOLD OPEN (LCN 4040) ALUM. FINISH
  - 1 WALL STOP
  - 1 SWEEP (KAWNEER)
  - WEATHERSTRIPPING (KAWNEER)
- GROUP 5**
- 1 1/2 PAIR BUTT HINGES
  - 1 LOCKSET, PASSAGE FUNCTION
  - 1 DEADLOCK W/ INDICATOR
  - 1 WALL STOP
- GROUP 6**
- 2 PAIR BUTT HINGES (KAWNEER 4 1/2" X 4" NRP) EACH LEAF
  - 1 PUSH BAR (KAWNEER CP-II) EACH LEAF
  - 1 PULL (KAWNEER CO-12) EACH LEAF
  - 1 CLOSER (LCN 4040) EACH LEAF, ALUM. FINISH
  - 1 FLOOR STOP, EACH LEAF
  - 1 THRESHOLD, THERMALLY BROKEN, ADA COMPLIANT, MILL FINISH
  - 1 SWEEP (KAWNEER)
  - WEATHERSTRIPPING (KAWNEER)
- GROUP 7**
- 1 1/2 PAIR BUTT HINGES
  - 1 PASSAGE SET
  - 1 WALL STOP
- GROUP 8**
- 1 PAIR BUTT HINGES
  - 1 PASSAGE SET
  - 1 ELECTRIC STRIKE
- GROUP 9**
- 1 1/2 PAIR BUTT HINGES
  - 1 LOCKSET, OFFICE FUNCTION
  - 1 WALL STOP
- GROUP 10**
- 1 1/2 PAIR BUTT HINGES
  - 1 LOCKSET, STOREROOM FUNCTION, ACTIVE LEAF
  - 1 ELECTRIC STRIKE, ACTIVE LEAF
  - 1 DUMMY TRIM, INACTIVE LEAF
  - 1 SET FLUSHBOLTS, TOP & BOTTOM, INACTIVE LEAF
  - 1 WALL STOP, EACH LEAF

**HARDWARE SELECTIONS:**

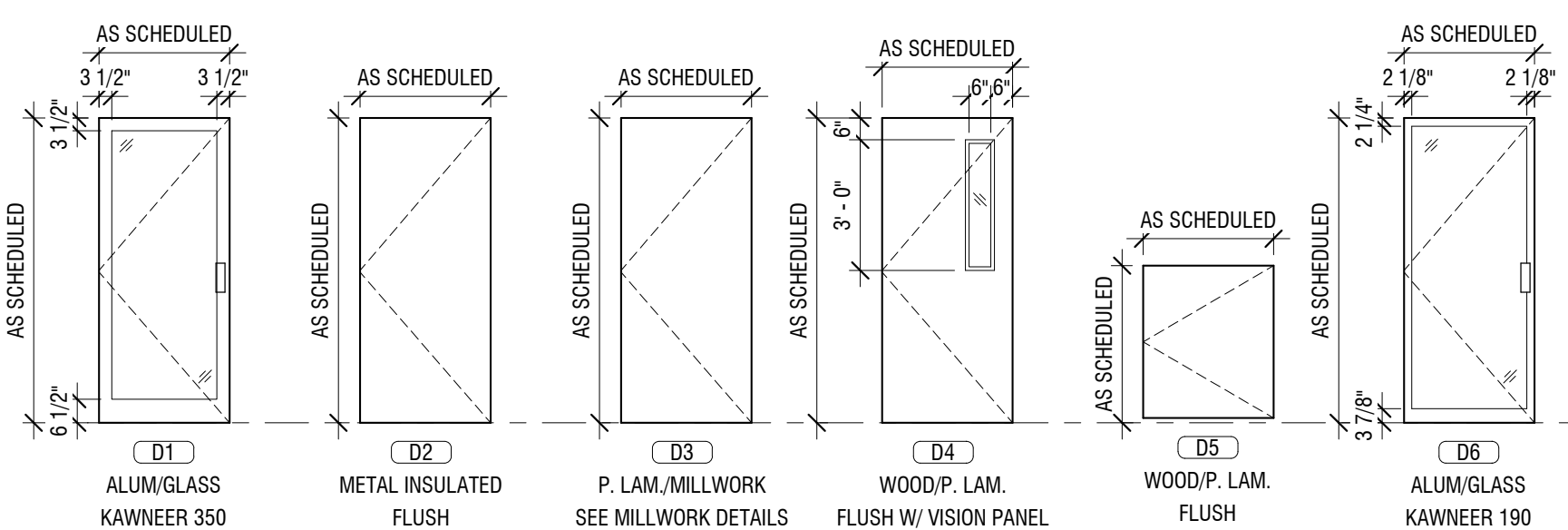
- HINGES (WOOD & HM DOORS): HAGER BB1279
- FINISH - 626 (US26D)
- LOCKSET (ALL DOORS): BEST 9K SERIES
- LEVER - 15D
  - TRIM - 31/2"
  - FINISH - 626 (US26D)
  - STRIKE - S3
- RIM PANIC EXIT DEVICE: PRECISION APEX 2100
- LEVER - 4900A (KEY RETRACTS LATCH)
  - FINISH - 626 (US26D)
  - ELECTRIC - COORDINATE ELECTRIC DEVICE OR ELECTRIC LATCH RETRACTION W/ OWNER'S SECURITY VENDOR
- DEADLOCK W/ INDICATOR: YALE D100
- VISUAL OCCUPANCY INDICATOR
  - FINISH - 626 (US26D)
- CLOSER (WOOD & HM DOORS): HAGER S200 SERIES
- MOUNT - REGULAR OR PARALLEL AS REQUIRED
  - ARM - 5203
  - FINISH - ALUM.
- DOOR VIEWER (HM DOORS): IVES 698
- FINISH - 626 (US26D)
- WALL STOPS (ALL DOORS): HAGER 236W
- FINISH - 626 (US26D)
- FLOOR STOPS (ALL DOORS): HAGER 248F
- FINISH - 626 (US26D)
- SWEEP (HM DOORS): HAGER
- MATERIAL - NEOPRENE
  - FINISH - CLEAR ANODIZED

**DOOR & FRAME NOTES**

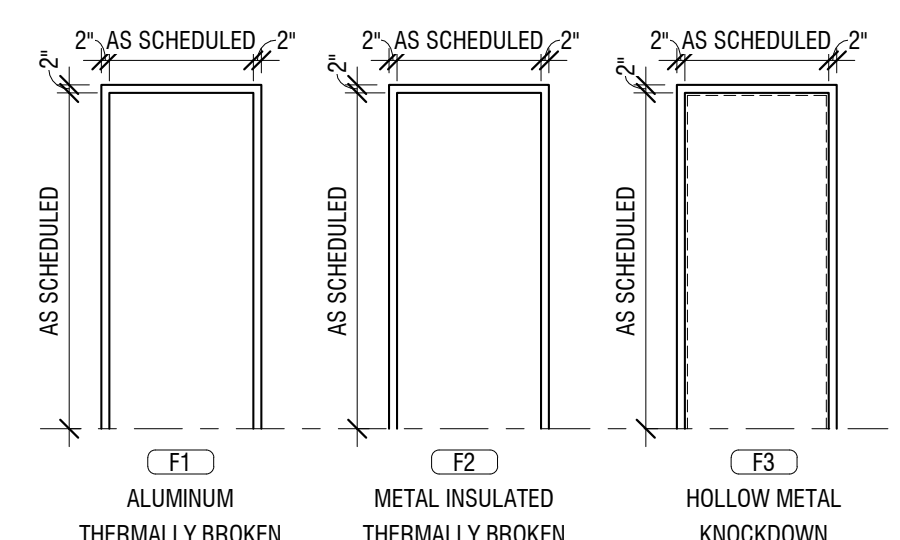
- PROVIDE ARCHITECT WITH SHOP DRAWINGS FOR ALL DOORS & HARDWARE FOR APPROVAL PRIOR TO WORK EFFORTS. ALL HOLLOW METAL DOORS & FRAMES SHALL BE MANUFACTURED BY AN SDI APPROVED MANUFACTURER.
- ALL HOLLOW METAL DOORS & FRAMES SHALL HAVE A BAKED-ON PRIMER FINISH.
- ALL DOORS & FRAMES SHALL BE REINFORCED & PREPARED FOR HARDWARE.
- COORDINATE WIDTH, HEIGHT, RATINGS & ACCESSORIES W/ DOOR SCHEDULE & OWNER.
- COORDINATE ALL DOOR HEIGHTS & CLEARANCES WITH EXISTING/FLOOR FINISHES PRIOR TO ORDERING.
- ALL FRAMES FOR FIRE RATED DOORS SHALL BE FIRE RATED TO MATCH DOOR.
- VERIFY ALL FRAME DEPTHS WITH PARTITION & WALL TYPES. PROVIDE WRAP AROUND FRAMES AT ALL STUD FRAMED PARTITIONS.
- PROVIDE BACK BOXES FOR ALL HARDWARE ITEMS INCLUDING ELECTRICAL.
- PROVIDE DOOR MARKINGS ON GLASS DOORS PER NY DEPT. OF LABOR INDUSTRIAL CODE RULE NO. 47.
- CONTRACTOR TO COORDINATE ANY SPECIALTY DOORS, FRAMES AND/OR HARDWARE REQUIREMENTS W/ OWNER IN FIELD PRIOR TO CONSTRUCTION.

**DOOR HARDWARE NOTES**

- ALL DOOR HARDWARE SHALL BE COMPLIANT WITH THE LATEST ADA, IEC/ANSI & IBC STANDARDS & CODES.
- ANY HARDWARE ITEM NOT SPECIFICALLY CALLED OUT, BUT REQUIRED TO MAKE ANY ASSEMBLY OPERATIONAL, SHALL BE INCLUDED BY THE HARDWARE SUPPLIER IN THEIR BASE BID.
- ALL HARDWARE SHALL HAVE OWNER'S STANDARD FINISH (US26D)
- CONTRACTORS SHALL COORDINATE ANY SPECIALTY DOORS, FRAMES, AND/OR HARDWARE REQUIREMENTS WITH THE OWNER IN FIELD PRIOR TO CONSTRUCTION.
- VERIFY ALL DOOR HARDWARE FUNCTIONS W/ OWNER AND/OR OWNER'S REPRESENTATIVE PRIOR TO ORDERING.
- APPROXIMATELY (6) MONTHS AFTER THE ACCEPTANCE OF HARDWARE, THE INSTALLER W/ MANUFACTURER'S REP SHALL RETURN TO PROJECT & RE-ADJUST HARDWARE TO RESTORE PROPER FUNCTION OF DOORS & HARDWARE. CONSULT AND INSTRUCT OWNER'S PERSONNEL IN RECOMMENDED ADDITIONS TO MAINTENANCE PROCEDURES, REPLACE HARDWARE THAT MAY HAVE FAILED DUE TO FAULTY DESIGN, MATERIALS OR INSTALLATION. PREPARE WRITTEN REPORT OF CURRENT & PREDICTABLE PROBLEMS OF SUBSTANTIAL NATURE IN HARDWARE PERFORMANCE.
- COORDINATE ALL NEW DOORS WITH OWNER'S KEYING REQUIREMENTS.
- PROVIDE ARCHITECT WITH DOOR & HARDWARE SUBMITTAL PACKAGE FOR REVIEW PRIOR TO WORK EFFORTS.



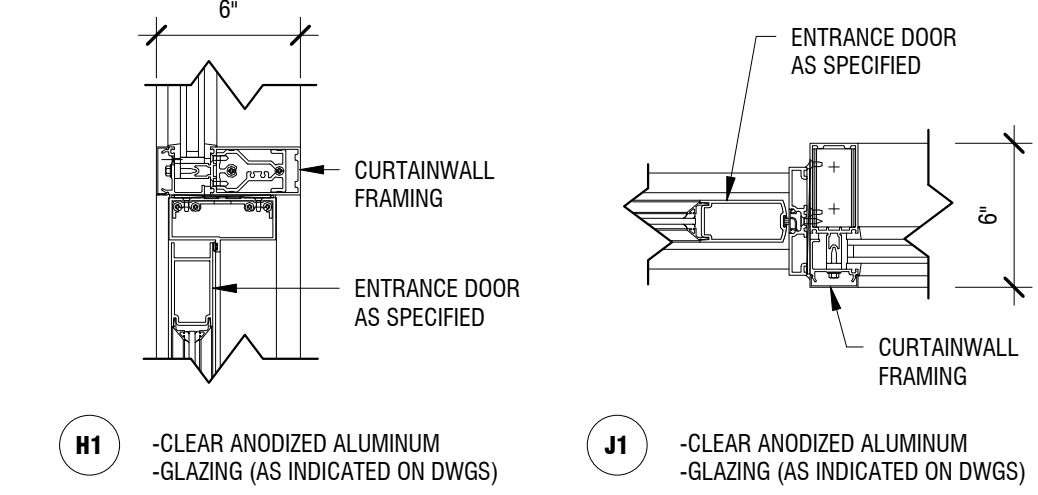
**DOOR TYPES**



**FRAME TYPES**

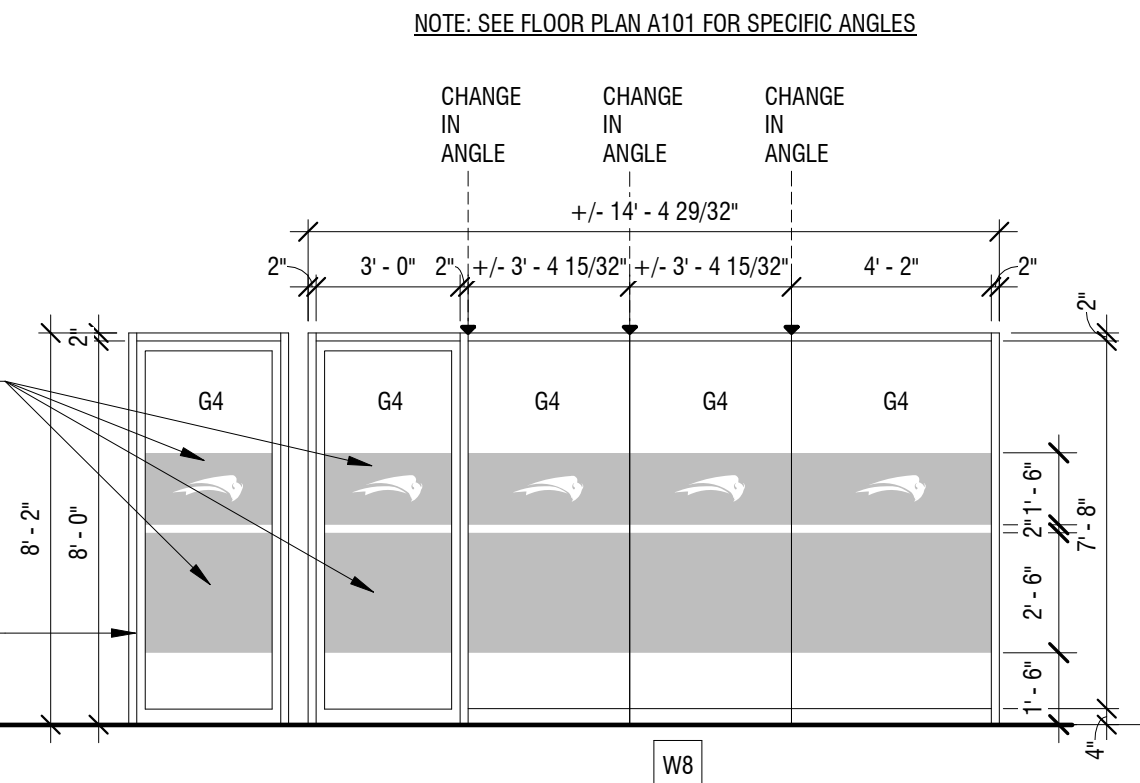
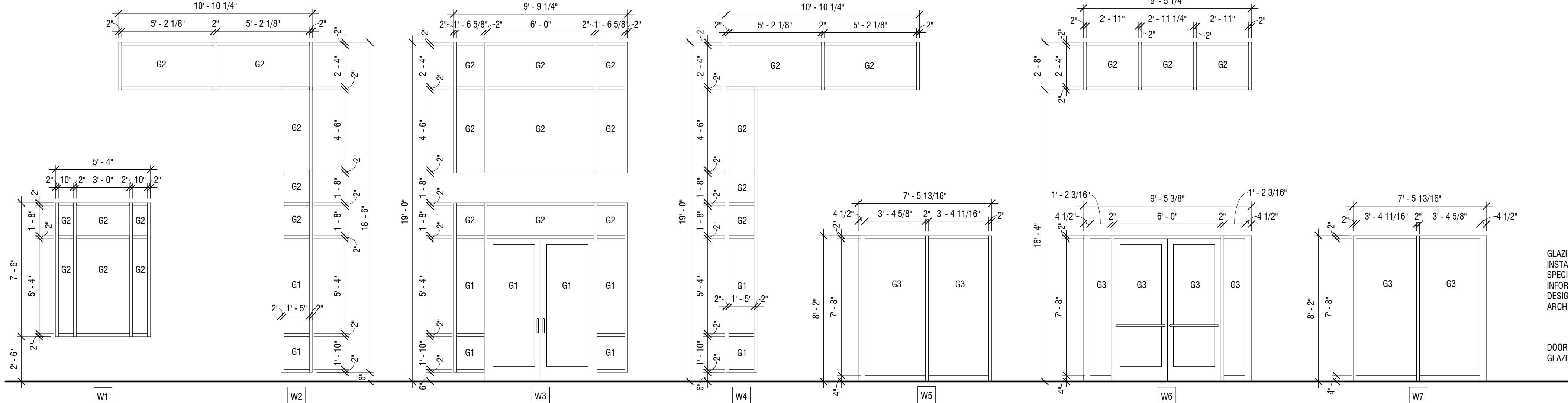
**DOOR AND FRAME TYPES**

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



**HEAD, JAMB, AND SILL DETAILS**

SCALE: 1 1/2" = 1'-0"



**GLASS TYPES:**

- G1 1" INSULATED GLASS, ARGON FILLED
- OB - 1/4" VITRO SOLARBAN 60 (2) SOLARGRAY, TEMPERED
  - IB - 1/4" CLEAR, TEMPERED
- G2 1" INSULATED GLASS, ARGON FILLED
- OB - 1/4" VITRO SOLARBAN 60 (2) SOLARGRAY, HEAT STRENGTHENED
  - IB - 1/4" CLEAR, ANNEALED
- G3 1/4" CLEAR, TEMPERED
- G4 5/8" CLEAR, TEMPERED
- G5 1" INSULATED GLASS, SPANDEL, ARGON FILLED
- OB - 1/4" VITRO SOLARBAN 60 (2) SOLARGRAY, HEAT STRENGTHENED
  - IB - 1/4" CLEAR, W/ OPACI-COAT 300, PRIMARY WHITE, ANNEALED

**WINDOW TYPES**

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

NOT FOR CONSTRUCTION

It is a violation of New York Education Law Article 145 Sec. 720a, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2181539

DRAWN BY: SP

REVIEWED BY: RJN

ISSUED FOR: BID SET

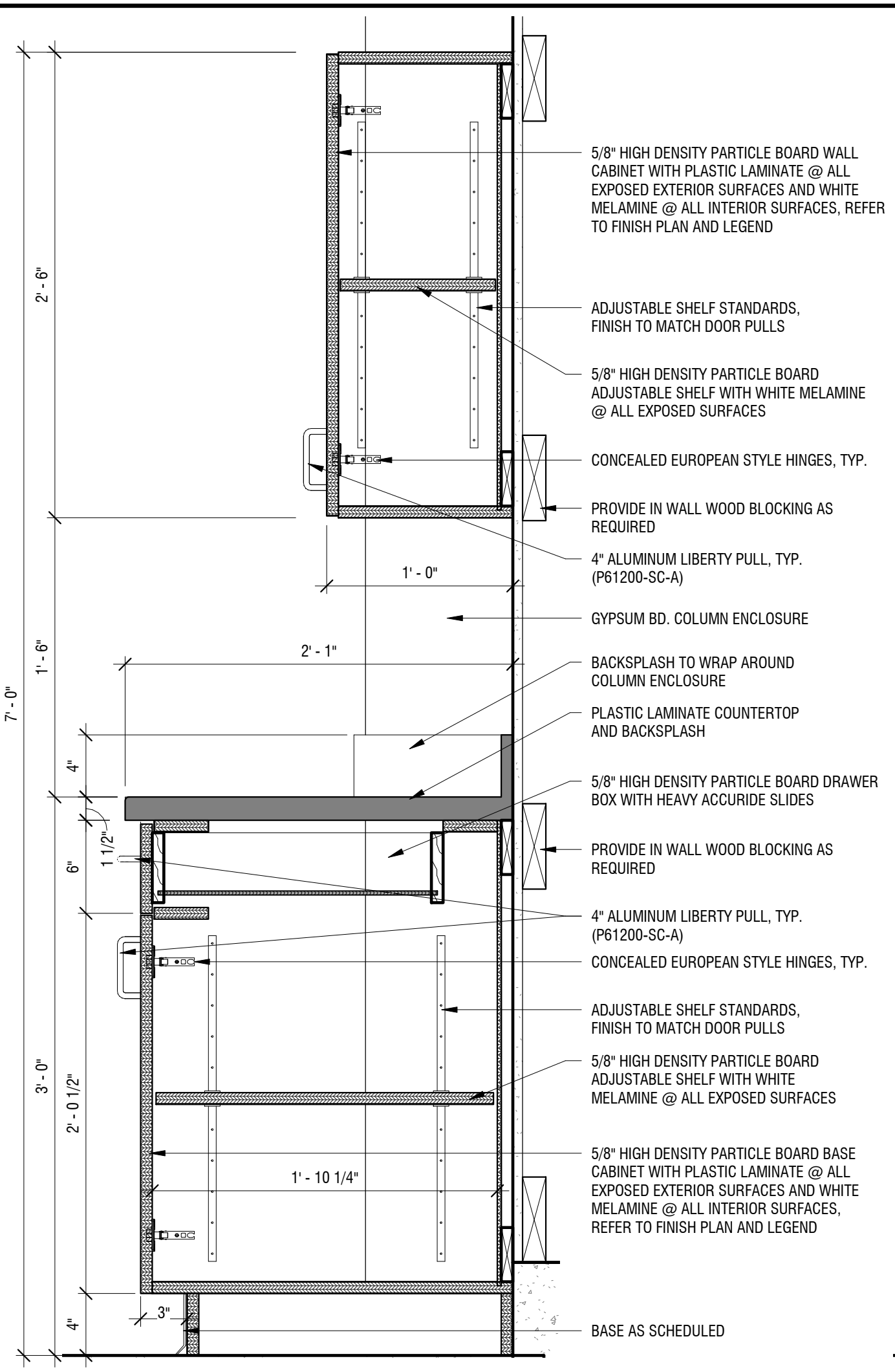
DATE: 25 JAN 2019

DRAWING NAME:

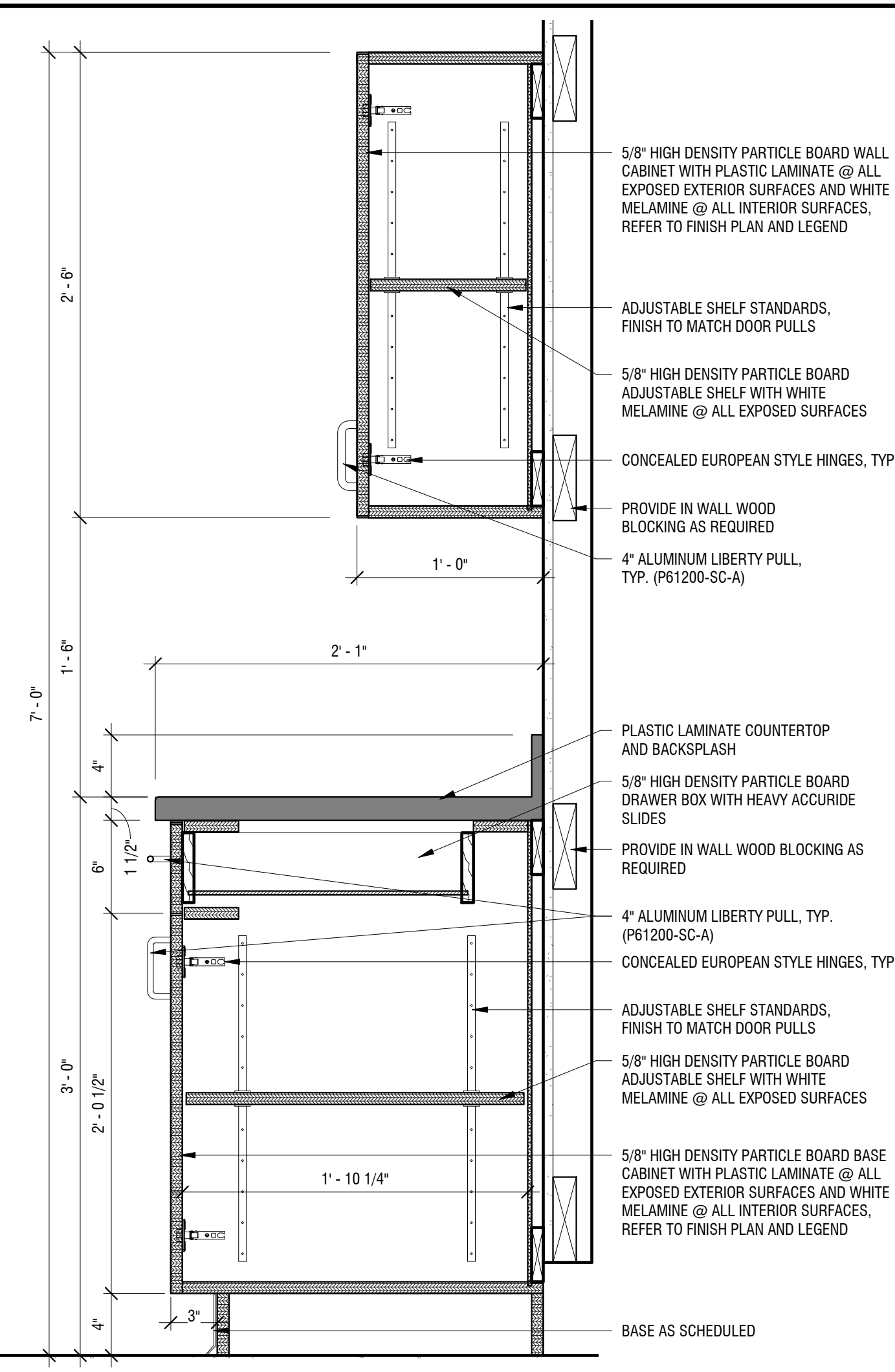
**MILLWORK SECTIONS AND DETAILS**

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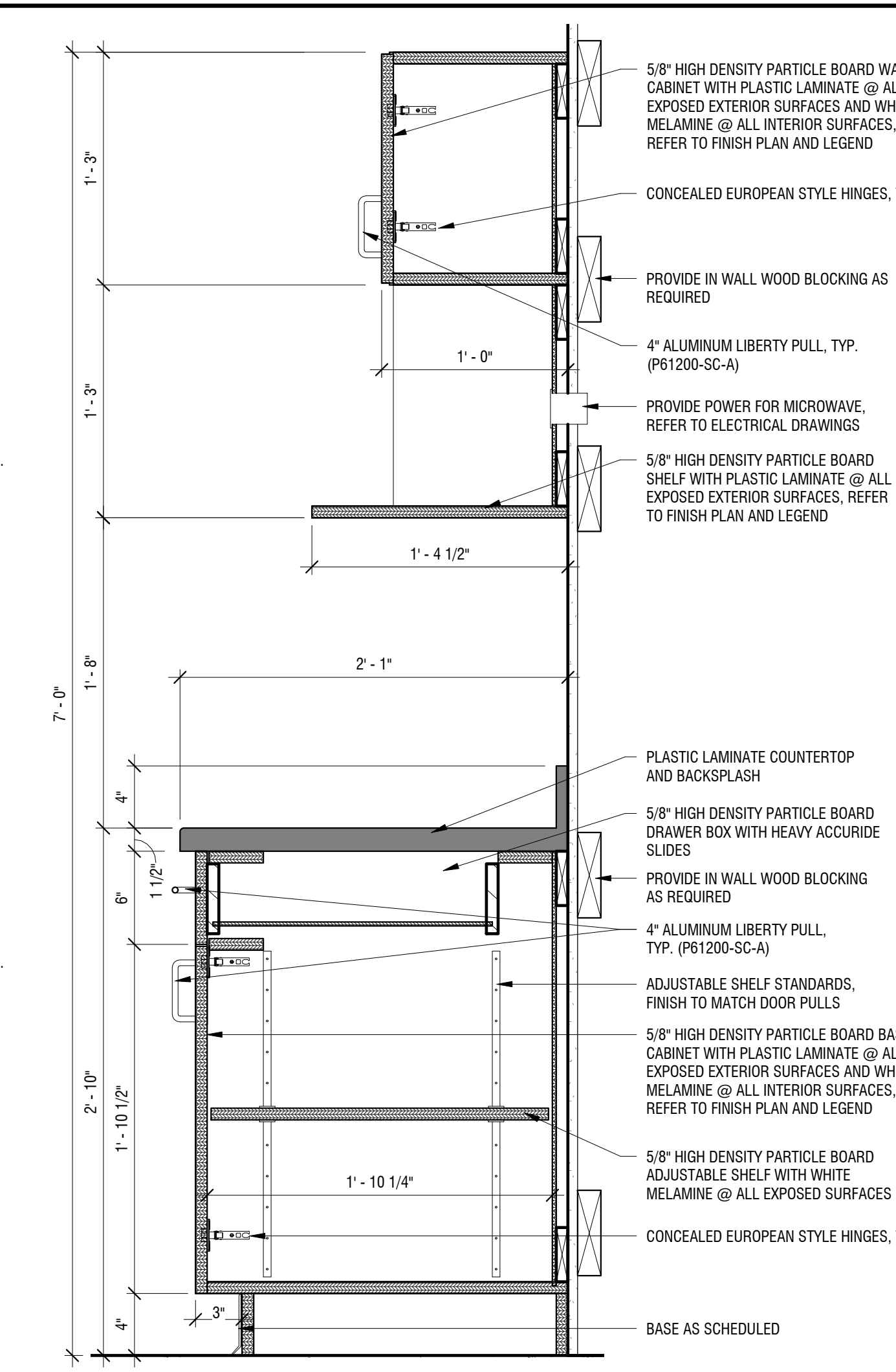
**A701**



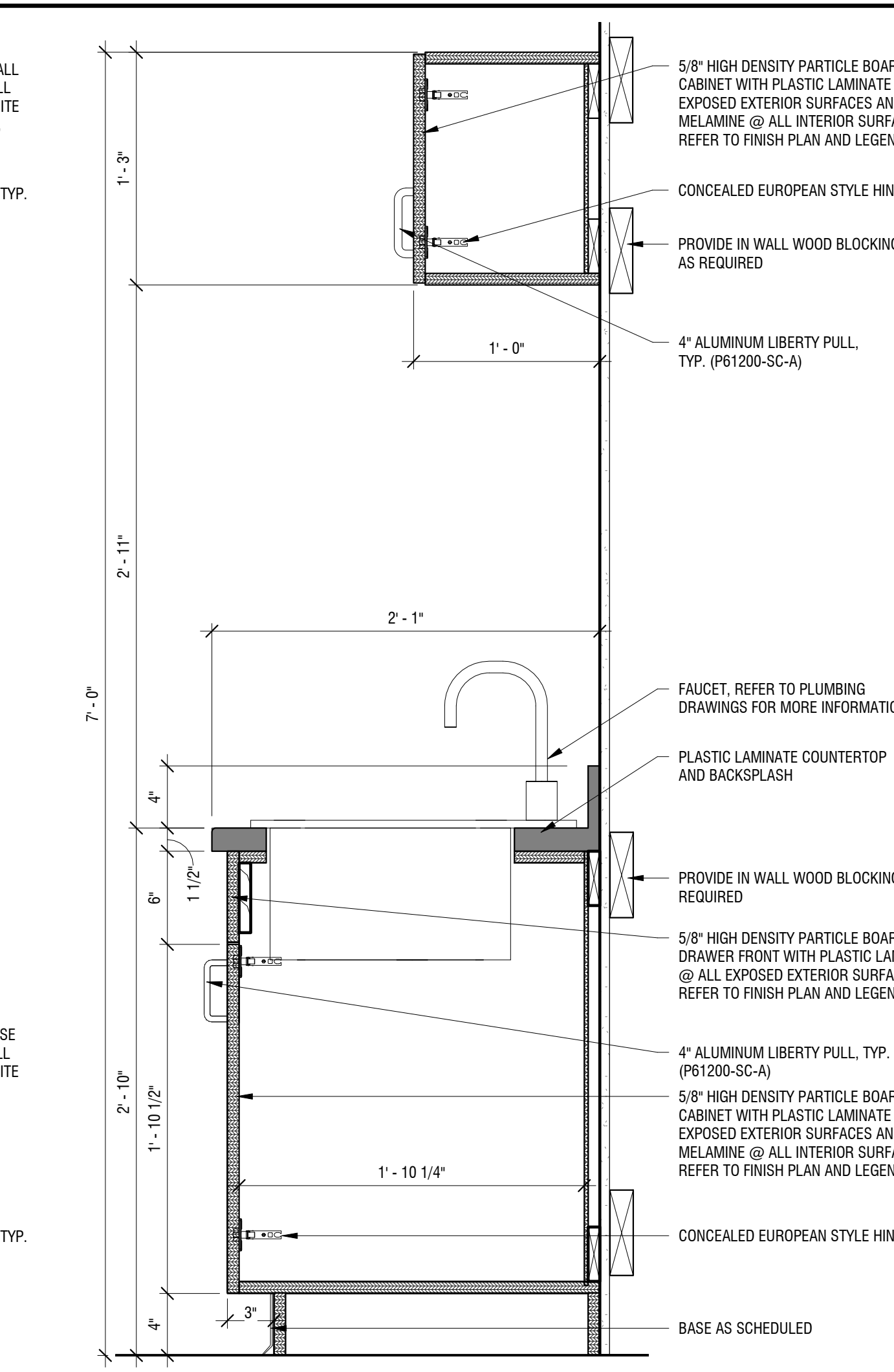
**1 MILLWORK SECTION**  
A701 SCALE: 1 1/2" = 1'-0"



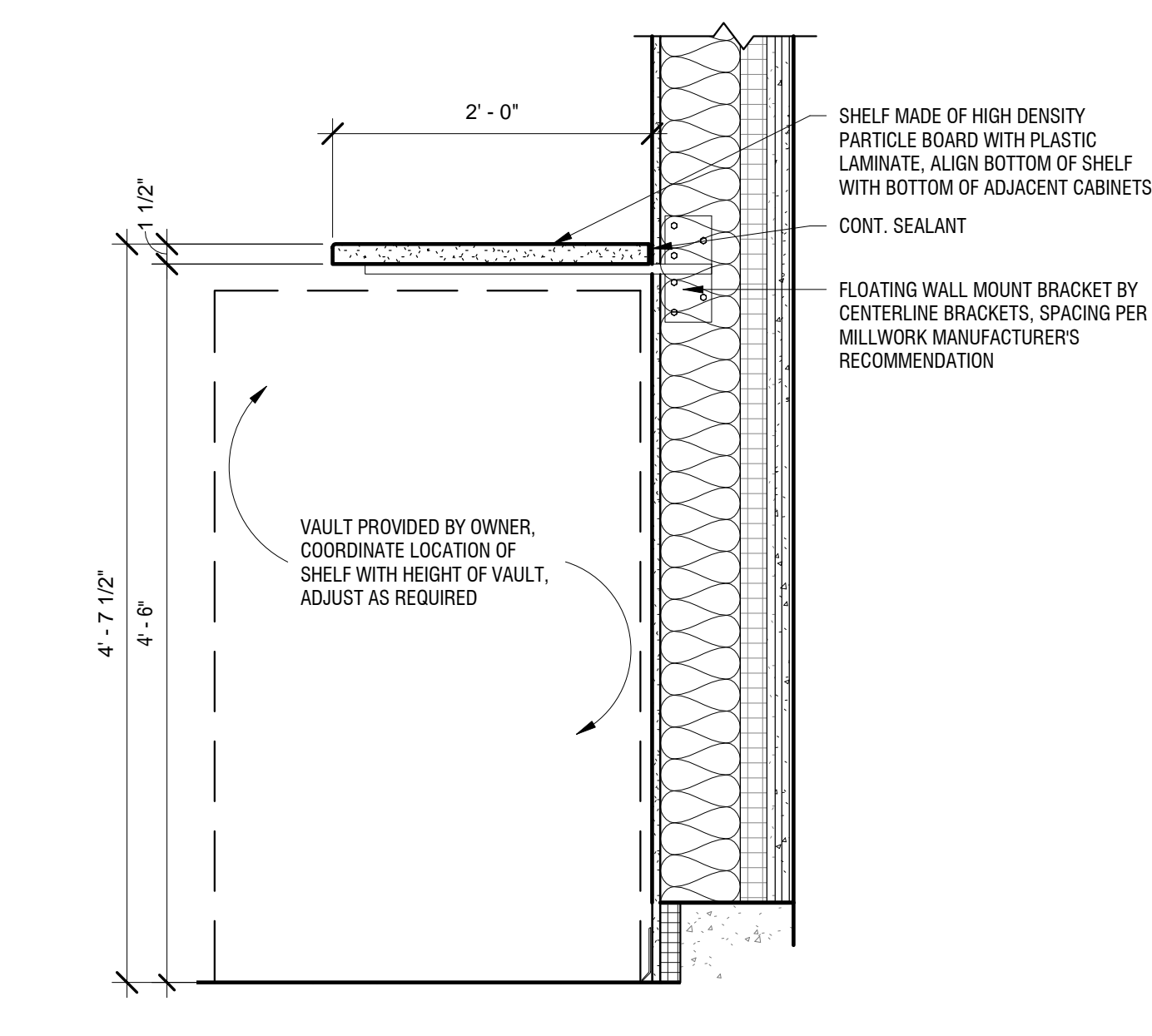
**2 MILLWORK SECTION**  
A701 SCALE: 1 1/2" = 1'-0"



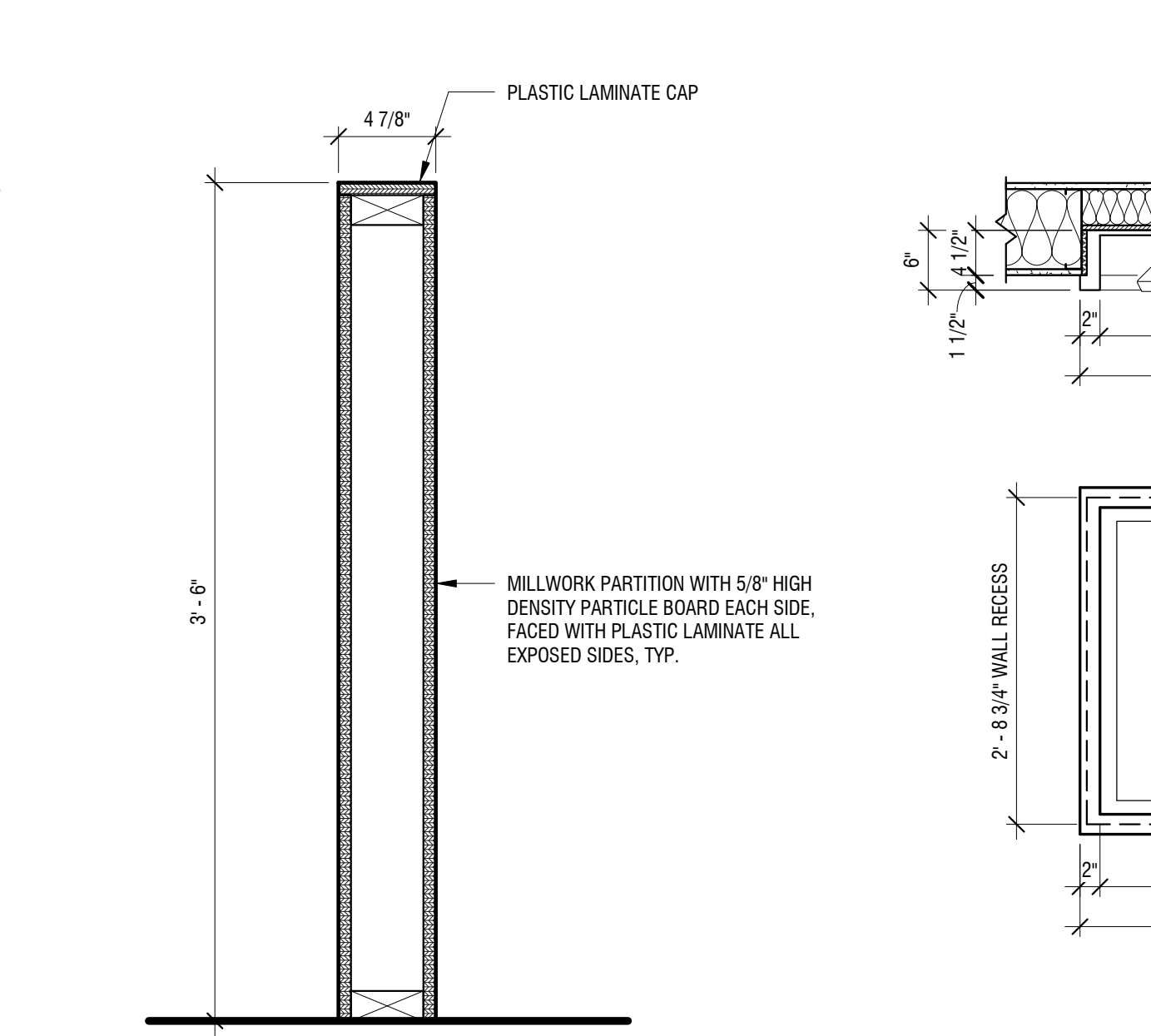
**3 MILLWORK SECTION**  
A701 SCALE: 1 1/2" = 1'-0"



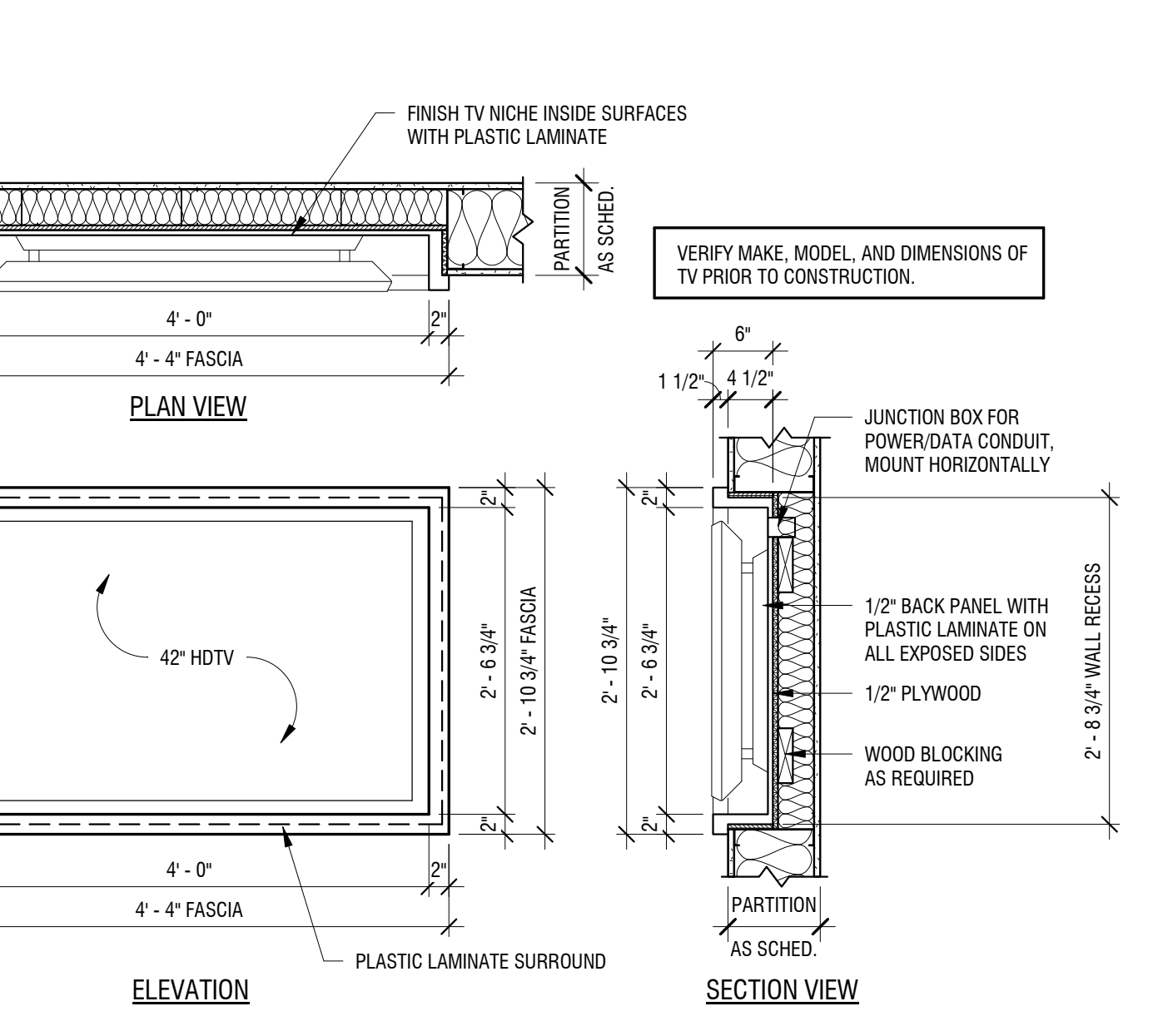
**4 MILLWORK SECTION**  
A701 SCALE: 1 1/2" = 1'-0"



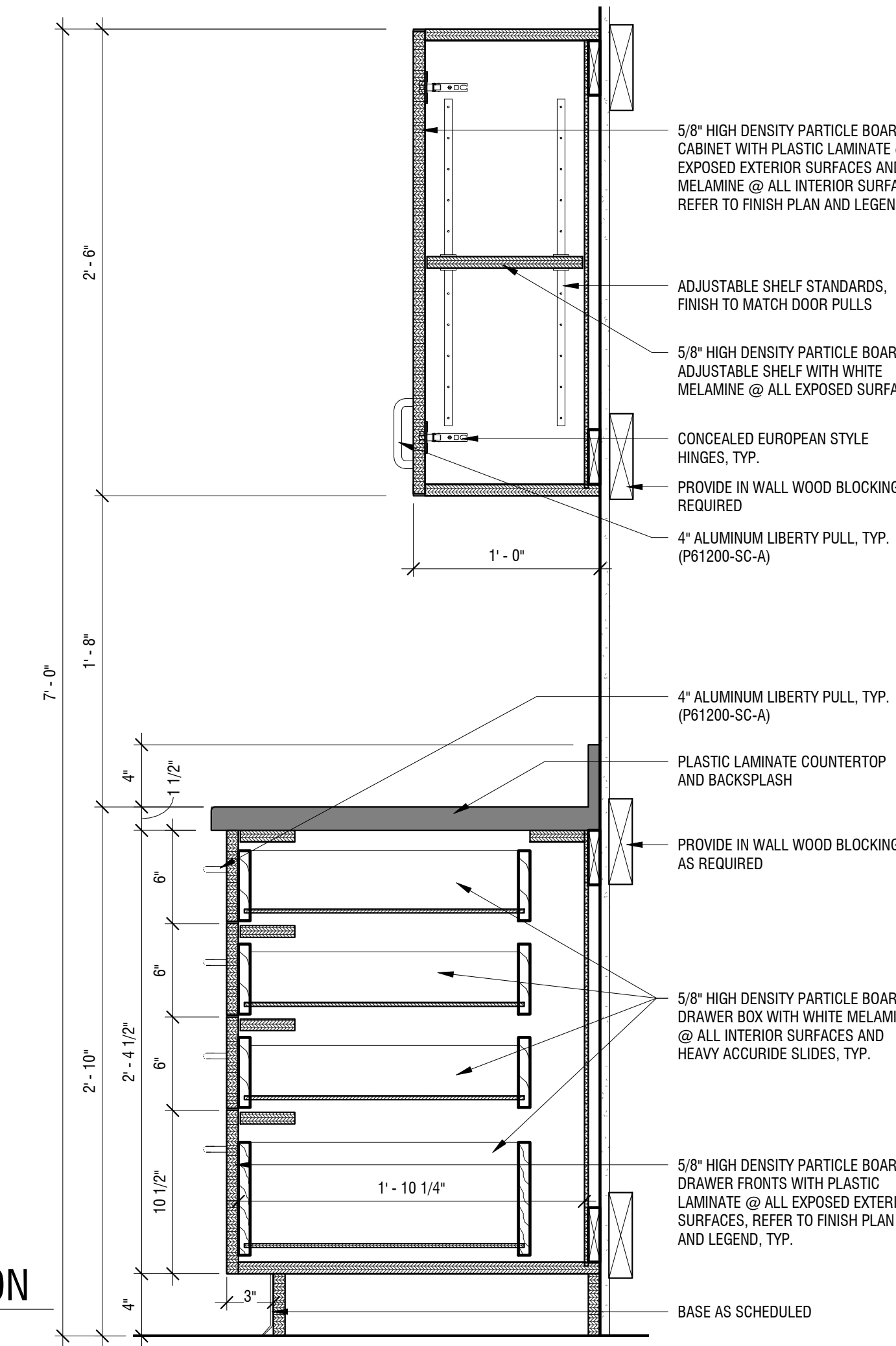
**8 COPY ROOM SHELF DETAIL**  
A701 SCALE: 1" = 1'-0"



**7 PARTITION HALF WALL DETAIL**  
A701 SCALE: 1 1/2" = 1'-0"



**6 RECESSED TV NICHE DETAIL - OFFICE 120**  
A701 SCALE: 3/4" = 1'-0"



**5 MILLWORK SECTION**  
A701 SCALE: 1 1/2" = 1'-0"

NOT FOR CONSTRUCTION

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2181539
DRAWN BY:		JMR
REVIEWED BY:		RJN
ISSUED FOR:		BID SET
DATE:		25 JAN 2019
DRAWING NAME:		

**FIRST FLOOR FINISH PLAN**

DRAWING NUMBER:

**I101**

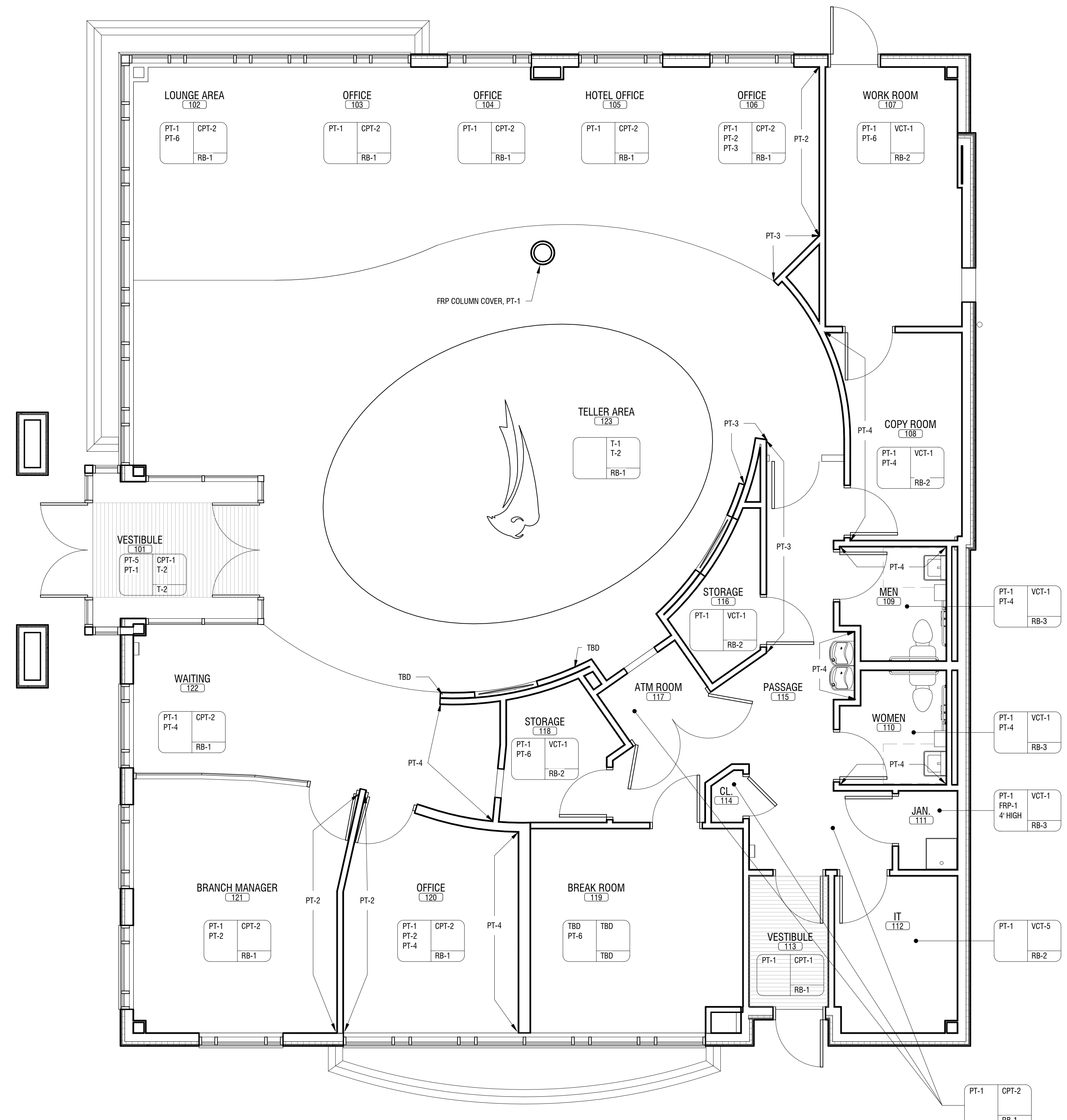
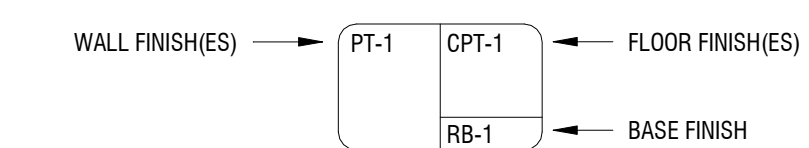
**FINISH LEGEND**

<p><b>ACOUSTICAL CEILING TILE:</b> (ACT-1): MFG: USG STYLE: FROST PANELS ITEM NO: 414 / WHITE EDGE: SLB SIZE: 24" X 24" X 3/4" GRID: 15/16" DX/DXL GRID / WHITE</p> <p><b>CARPET (CPT-):</b> (CPT-1): MFG: CONSTRUCTION SPECIALTIES STYLE: PEDIMAT / M1 RAIL/FRAME: BLACK TREAD: HD / CARPET / EXTERIOR BRUSH TREAD COLOR: #7325 WROUGHT IRON SIZE: REFER TO DRAWINGS INSTALL: REFER TO DRAWINGS NOTE: VESTIBULE 101 &amp; 113 WALK OFF MAT</p> <p>(CPT-2): MFG: J &amp; J / INVISION STYLE: TERRA FIRMA MODULAR 7958 COLOR: 2010 FURNACE CREEK 2010 SIZE: 24" X 24" INSTALL: REFER TO FINISH PLAN</p> <p><b>FRP (FRP-):</b> (FRP-1): MFG: CRANE / KEMLITE STYLE: LBA - CLASS A / .09" COLOR: WHITE NOTE: SOUTH AND WEST WET WALLS ONLY UP TO 4' HIGH</p> <p><b>GLASS GRAPHICS:</b> (GG-1): MFG: BOSTIK / HYDROMENT COLOR: H163 LINEN NOTE: WITH T-1</p> <p>(GG-2): MFG: BOSTIK / HYDROMENT COLOR: H195 SHADOW NOTE: WITH T-2</p> <p><b>MURAL:</b> (MUR-1): SUPPLIED AND INSTALLED BY OWNER REFER TO DRAWINGS &amp; VERIFY WITH OWNER FOR EXACT LOCATIONS</p> <p><b>PLASTIC LAMINATE (PL-):</b> (PL-1): MFG: WILSONART COLOR: SKYLINE WALNUT 7964K-12 FINISH: SOFTGRAIN FINISH NOTE: CABINETS AT WORK ROOM 107, COPY ROOM 103</p> <p>(PL-2): MFG: WILSONART COLOR: CALACATTA ORD 4981-38 FINISH: FINE VELVET FINISH NOTE: COUNTERTOPS AT WORK ROOM 107, AND COPY ROOM 108</p> <p>(PL-3): MFG: WILSONART COLOR: PINBALL 4937-38 FINISH: FINE VELVET FINISH NOTE: BREAKROOM 119 COUNTERTOP &amp; BACKSPLASH</p> <p>(PL-4): MFG: WILSONART COLOR: BEIGEWOOD 7850-60 FINISH: MATTE FINISH NOTE: BREAKROOM 119 CABINETS</p> <p><b>PAINT (PT-):</b> (PT-1): MFG: BENJAMIN MOORE STYLE: MOORCRAFT SUPER HIDE LATEX COLOR: 861 SHALE FINISH: EGGSHELL ENAMEL C288 NOTE: GENERAL WALL COLOR. REFER TO DRAWINGS FOR EXACT LOCATIONS</p> <p>(PT-2): MFG: BENJAMIN MOORE STYLE: MOORCRAFT SUPER HIDE LATEX COLOR: 2091-10 BURNT PEANUT RED FINISH: EGGSHELL ENAMEL C288 NOTE: ACCENT COLOR. REFER TO DRAWINGS FOR EXACT LOCATIONS</p> <p>(PT-3): MFG: BENJAMIN MOORE STYLE: MOORCRAFT SUPER HIDE LATEX COLOR: 1239 RURAL EARTH FINISH: EGGSHELL ENAMEL C288 NOTE: ACCENT COLOR. REFER TO DRAWINGS FOR EXACT LOCATIONS</p> <p>(PT-4): MFG: SHERWIN WILLIAMS STYLE: SUPER HIDE LATEX COLOR: SW 7046 ANONYMOUS FINISH: SEMI GLOSS / EGGSHELL ENAMEL C288 NOTE: HM DOORS &amp; FRAMES / ACCENT COLOR</p> <p>(PT-5): MFG: BENJAMIN MOORE STYLE: MOORCRAFT SUPER HIDE LATEX COLOR: 2121-60 WHITE DIAMOND FINISH: EGGSHELL ENAMEL C288 NOTE: GWB CEILINGS</p> <p>(PT-6): MFG: BENJAMIN MOORE STYLE: MOORCRAFT SUPER HIDE LATEX COLOR: 861 SHALE FINISH: SEMI-GLOSS ENAMEL NOTE: EXPOSED STEEL COLUMNS @ (4) LOCATIONS</p> <p><b>RESILIENT BASE (RB-):</b> (RB-1): MFG: ROPPE STYLE: 700 SERIES THERMOPLASTIC RUBBER / NO TOE COLOR: 129 DOLPHIN SIZE: 4" H X 1/8" THICK NOTE: CARPETED AREAS</p> <p>(RB-2): MFG: ROPPE STYLE: 700 SERIES THERMOPLASTIC RUBBER / STD. TOE COLOR: 129 DOLPHIN SIZE: 4" H X 1/8" THICK NOTE: VCT AREA AREAS</p> <p>(RB-3): MFG: ROPPE STYLE: 700 SERIES THERMOPLASTIC RUBBER / STD. TOE COLOR: 129 DOLPHIN SIZE: 6" H X 1/8" THICK NOTE: MENS ROOM 109, WOMEN'S ROOM 110, JAN CLO 111, BREAK ROOM 119</p> <p><b>SOLID SURFACE (SS-):</b> (SS-1): MFG: WILSONART STYLE: SOLID SURFACE COLOR: CHAMPAGNE ICE 9205CE EDGE: EASED THICKNESS: 2" NOTE: WINDOW STOOLS</p>	<p><b>TILE (T-):</b> (T-1): MFG: FLORIDA TILE STYLE: CLIFFSIDE COLOR: BEIGE BUFF 28230 SIZE: 12" X 12" X 1/4" FINISH: NATURAL INSTALL: REFER TO DRAWINGS FOR PATTERN AND EXACT LOCATIONS NOTE: MAIN TILE / TELLER AREA 123</p> <p>(T-2): MFG: FLORIDA TILE STYLE: CLIFFSIDE COLOR: 28217 LIGHT GROTTO SIZE: 12" X 12" X 1/4" FINISH: NATURAL TRIM: PROVIDE 6" COVE BASE INSTALL: REFER TO DRAWINGS FOR PATTERN, AND EXACT LOCATIONS NOTE: ACCENT TILE / VESTIBULE 101, TELLER AREA 123</p> <p><b>TRANSITION STRIPS (TS-):</b> (TS-1): MFG: SCHLUTER NOTE: INSTALL STAINLESS STEEL SCHLUTER TRANSITIONS THROUGHOUT WHERE TILE MEETS DISSIMILAR MATERIALS.</p> <p>(TS-2): MFG: ROPPE STYLE: #129 DOLPHIN NOTE: WHERE VCT MEETS CARPET</p> <p><b>VINYL COMPOSITION TILE (VCT-):</b> (VCT-1): MFG: ARMSTRONG STYLE: STANDARD EXCELON COLOR: 51861 SOFT WARM GRAY SIZE: 12" X 12" X 1/8" INSTALL: REFER TO DRAWINGS NOTE: WORKROOM 107, COPY ROOM 108, MENS ROOM 109, WOMENS ROOM 110, JAN CLO 111, IT 112, STORAGE 116, STORAGE 118.</p> <p>(VCT-2): MFG: ARMSTRONG STYLE: STANDARD EXCELON COLOR: 51890 MARASCHINO SIZE: 12" X 12" X 1/8" INSTALL: REFER TO DRAWINGS NOTE: BREAK ROOM 119 ACCENT COLOR</p> <p>(VCT-3): MFG: ARMSTRONG STYLE: STANDARD EXCELON COLOR: 51821 CARIBBEAN BLUE SIZE: 12" X 12" X 1/8" INSTALL: REFER TO DRAWINGS NOTE: BREAK ROOM 119 ACCENT COLOR</p> <p>(VCT-4): MFG: ARMSTRONG STYLE: STANDARD EXCELON COLOR: 51941 POLAR WHITE SIZE: 12" X 12" X 1/8" INSTALL: REFER TO DRAWINGS NOTE: BREAK ROOM 119 MAIN TILE</p> <p>(VCT-5): MFG: ARMSTRONG STYLE: EXCELON SDT COLOR: 51951 ARMOR GRAY SIZE: 12" X 12" X 1/8" INSTALL: REFER TO DRAWINGS NOTE: IT 112</p> <p><b>WINDOW TREATMENTS:</b> SUPPLIED AND INSTALLED BY OWNER</p> <p><b>WOOD DOORS:</b> NEW DOORS TO BE HIGH PRESSURE DECORATIVE LAMINATE DOORS USING PL-1.</p>
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**FINISH PLAN GENERAL NOTES**

- REFER TO I201 SERIES FOR FLOOR PATTERNING PLANS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL NEW HOLLOW METAL DOORS, DOOR FRAMES, AND HOLLOW METAL WINDOW FRAMES WITHIN AREA OF WORK SHALL BE PAINTED PT-4.
- ALL EXPOSED COLUMNS TO BE PAINTED PT-6 UNLESS NOTED OTHERWISE.
- ALL LOUVERS, VENTS, GRILLES, AND OTHER MISC. MECHANICAL & ELECTRICAL DEVICES ARE TO BE PAINTED TO MATCH SURFACE ON WHICH THEY APPEAR, UNLESS NOTED OTHERWISE.
- ALL FLOOR FINISHES SHALL TRANSITION AT CENTERLINE OF DOOR, EXCEPT AT CPT-1.
- REFER TO DRAWINGS/FINISH SCHEDULE FOR EXACT PATTERNS, LOCATIONS, ETC.
- UNLESS OTHERWISE NOTED, CONTRACTOR TO PROPERLY PREPARE ALL SURFACES TO ACCEPT FINISHES. CONTRACTOR TO FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS AND/OR REQUIREMENTS REGARDING INSTALLATION PRACTICES, PROCEDURES, APPLICATIONS, TOLERANCES, ETC. IF CONFLICTS OCCUR, CONTRACTOR TO PROVIDE IN WRITING TO THE OWNER/ARCHITECT FOR REQUEST OF INFORMATION TO CLARIFY INSTALLATION PROCEDURES PRIOR TO THE INSTALLATION OF ANY NEW FINISHES AND/OR MATERIALS.

**FINISH PLAN LEGEND**



**1 FIRST FLOOR FINISH PLAN**  
SCALE: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **JMR**

REVIEWED BY: **RJN**

ISSUED FOR: **BID SET**

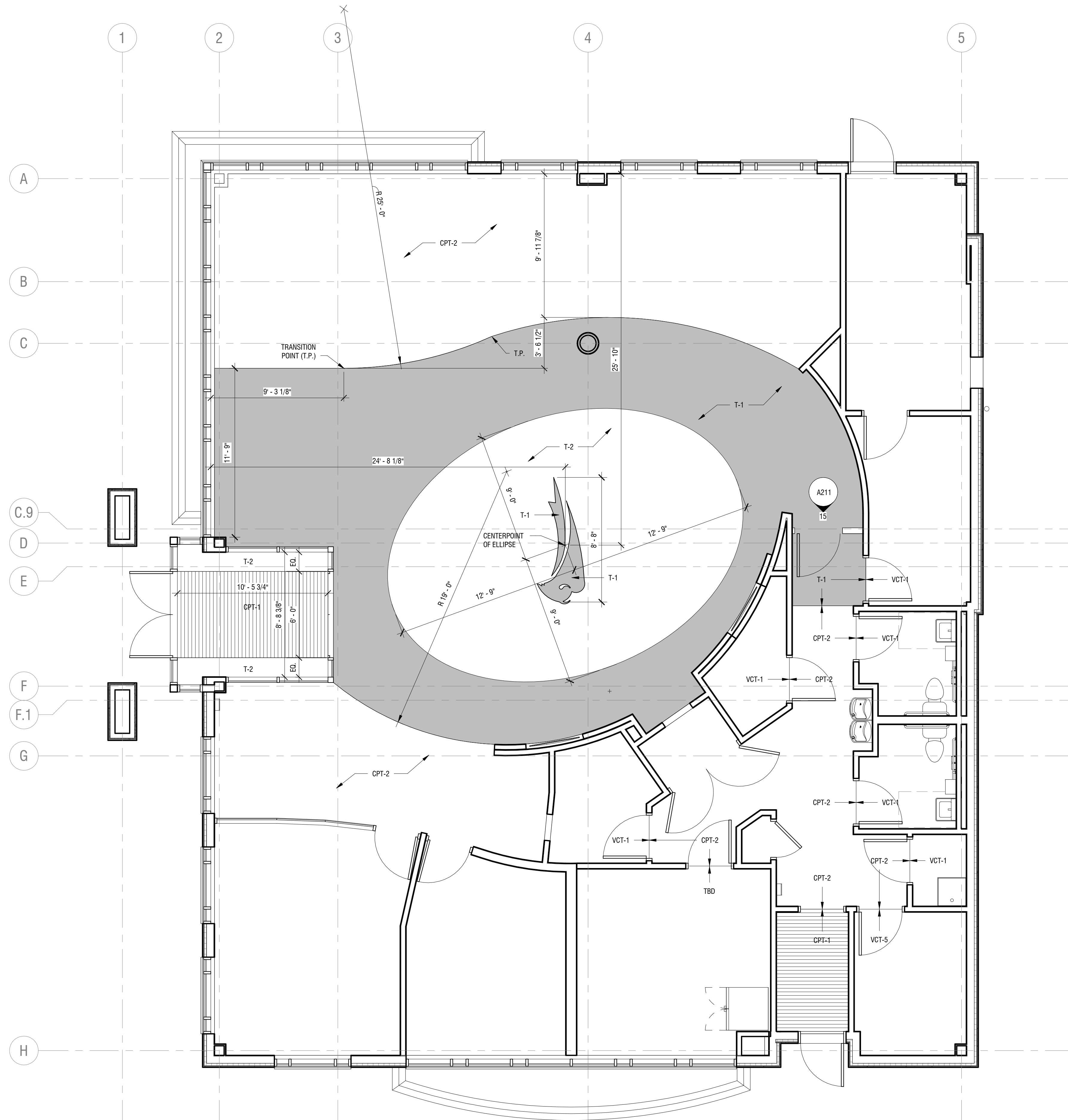
DATE: **25 JAN 2019**

DRAWING NAME:

**FIRST FLOOR PATTERNING PLAN**

DRAWING NUMBER:

**I201**



**1 FIRST FLOOR PATTERNING PLAN**  
SCALE: 1/4" = 1'-0"

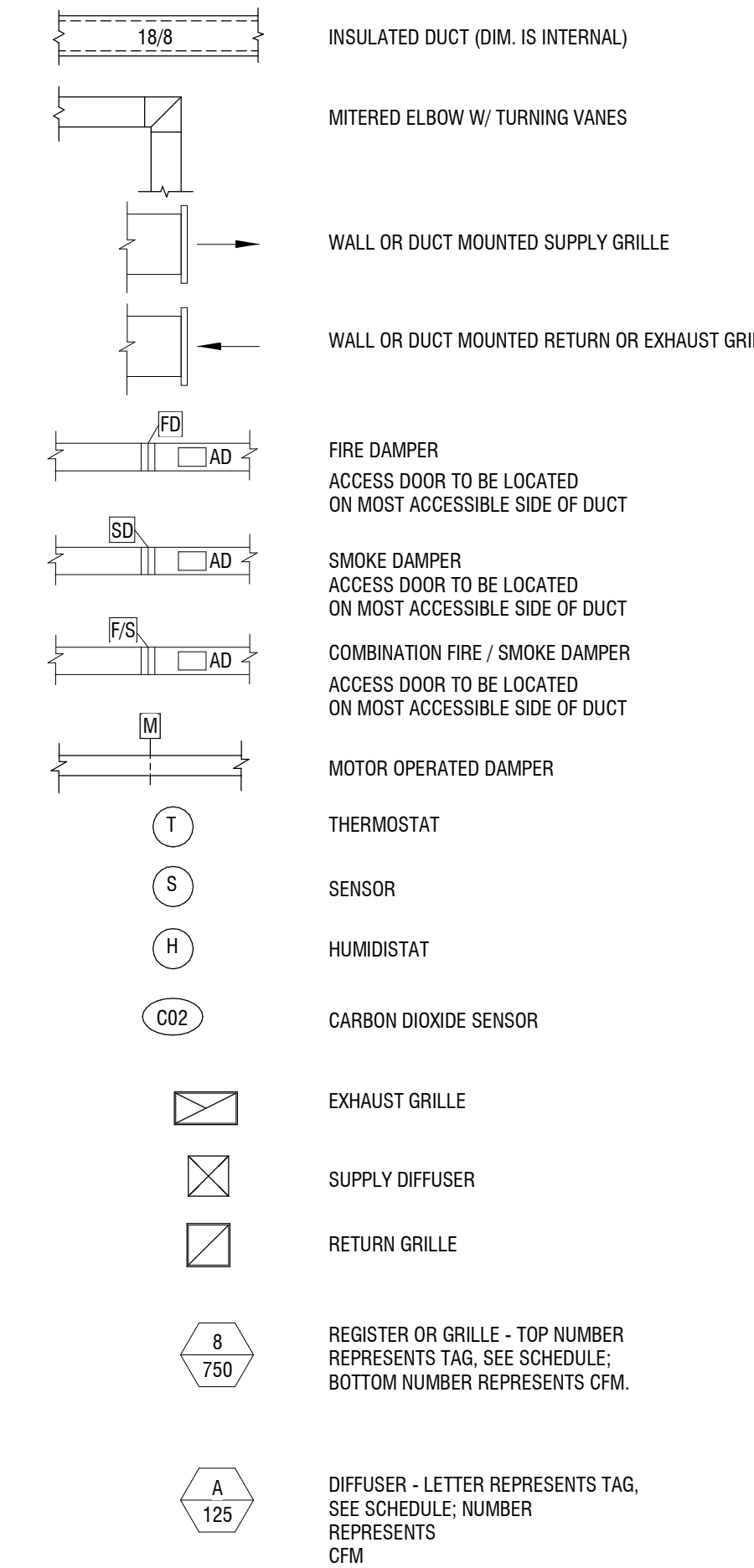
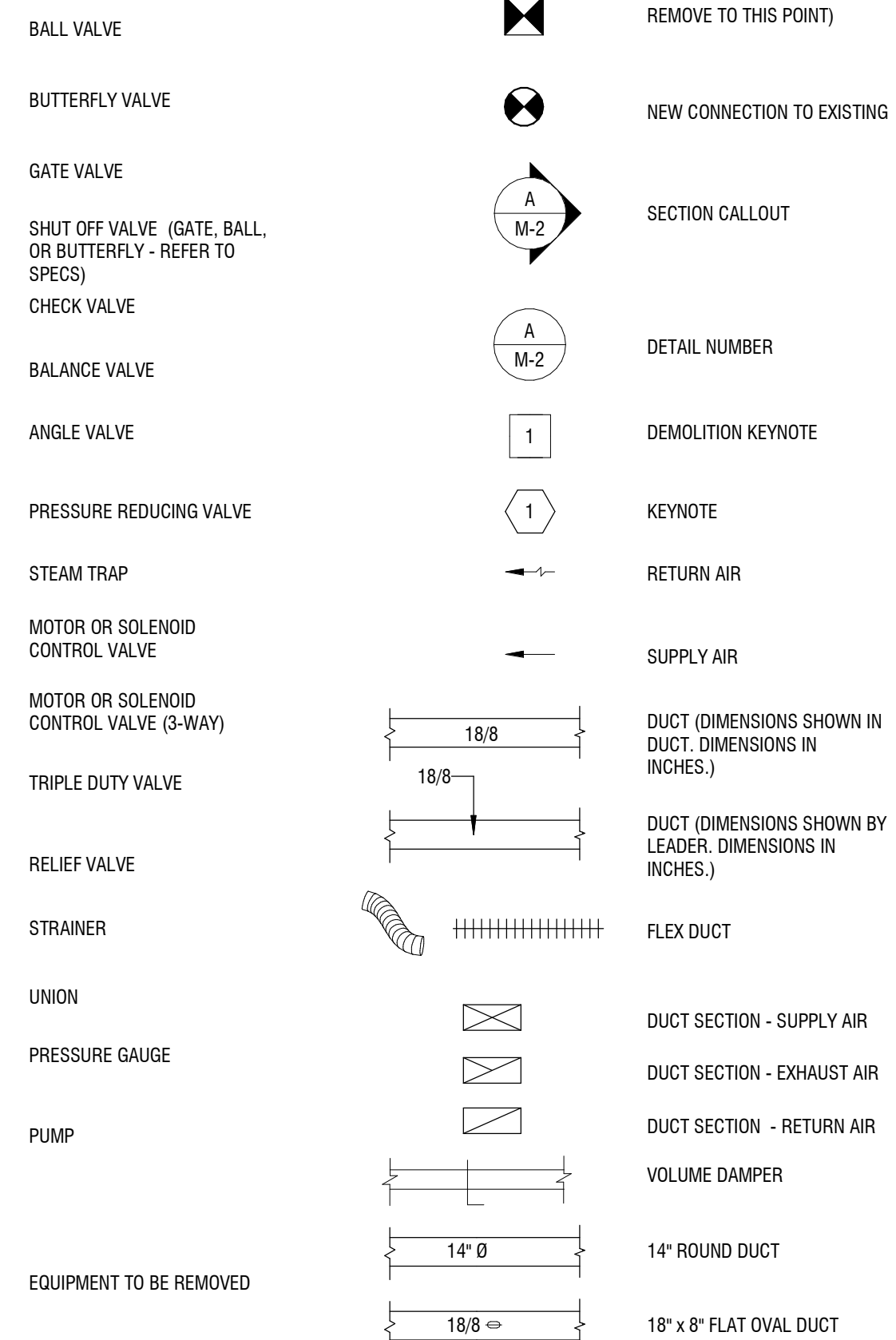
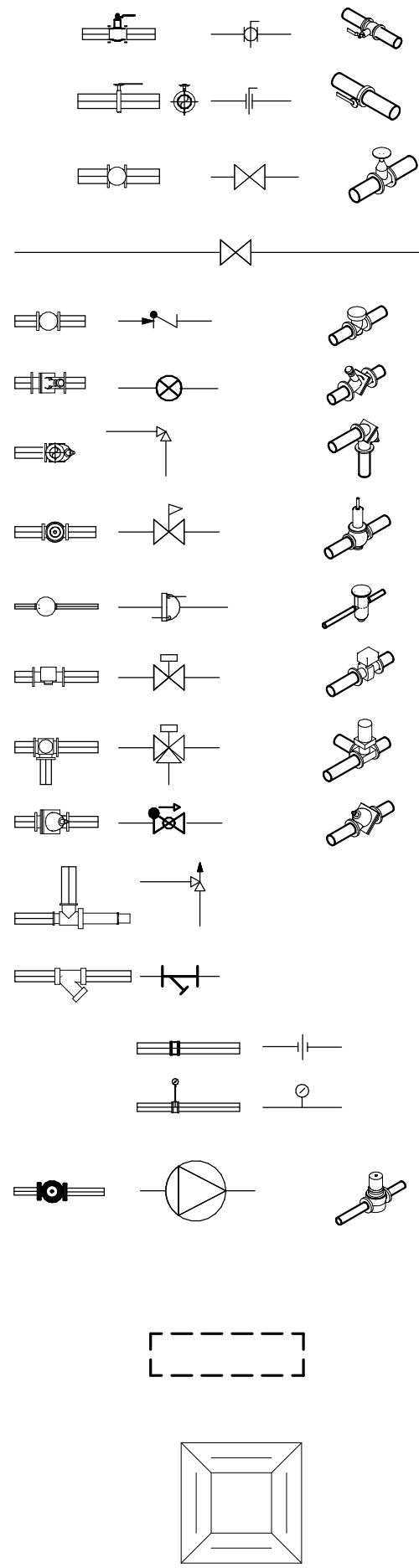
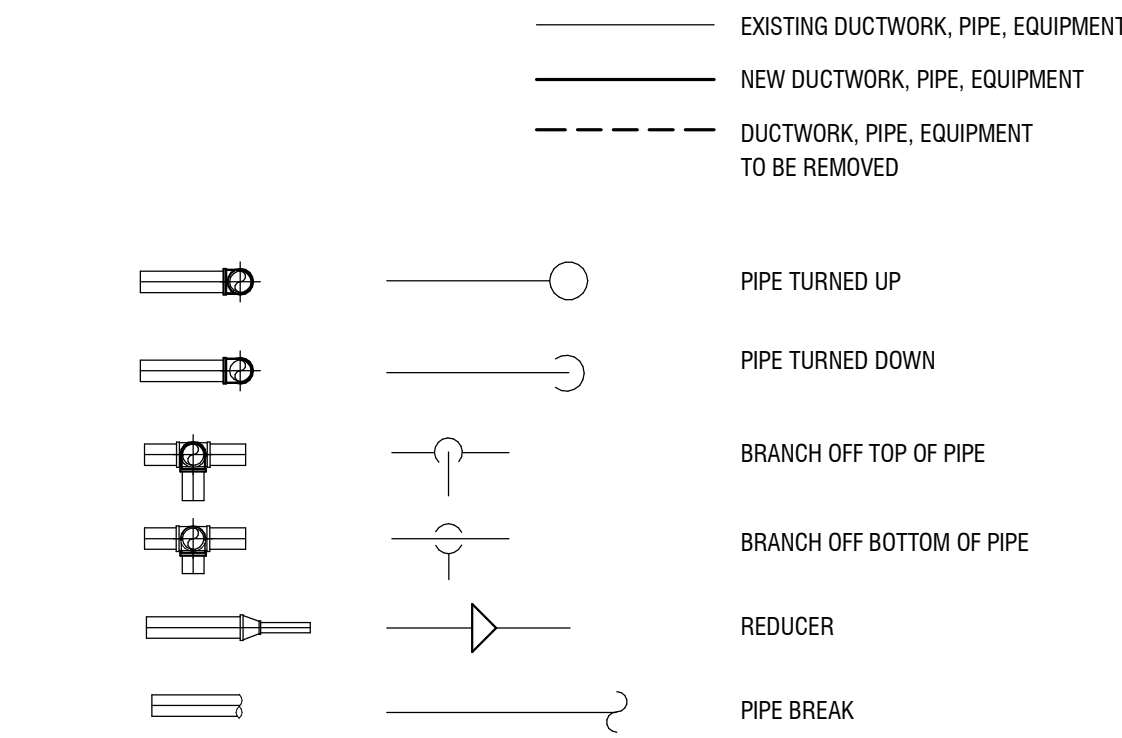
GENERAL NOTES

DRAWING SYMBOLS

DUCTWORK GENERAL NOTES

- HVAC CONTRACTOR TO PROVIDE CRANE AND NECESSARY EQUIPMENT TO HOIST ROOF MOUNTED HVAC EQUIPMENT FROM SITE TO FINAL ROOF LOCATION. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN INTERIM FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.
- PROVIDE 45 DEGREE SHOE-TAP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS (TOP, SIDE AND BOTTOM) FOR SUPPLY, RETURN AND EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE. VOLUME DAMPERS SHALL BE OMITTED FROM VAV INLET BRANCH DUCTWORK.
- COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.
- INSULATE OR LINE DUCTWORK AS SPECIFIED IN THE MECHANICAL INSULATION AND METAL DUCTS SPECIFICATIONS OR NOTED ON DRAWINGS. NOTE THAT DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE NET CLEAR DIMENSIONS.
- ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES. TURNING VANES SHALL BE OMITTED FROM AIR TRANSFER DUCT ELBOWS.
- ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.
- HVAC CONTRACTOR TO PROVIDE ALL WALL & ROOF PENETRATIONS 8"x8" OR SMALLER. ALL PENETRATIONS LARGER THAN 8"x8" IS THE RESPONSIBILITY OF THE G.C. COORDINATE ALL 8"x8" OR LARGER PENETRATION LOCATIONS WITH G.C. LINTELS (BY G.C.) REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. PENETRATIONS AND LINTEL LOCATIONS TO BE COORDINATED WITH G.C. AND DOCUMENTED ON COORDINATION DRAWINGS.
- BALANCING CONTRACTOR TO SET MINIMUM OUTSIDE AIR DAMPER POSITION TO MEET VENTILATION AIR QUANTITIES REQUIRED AS SHOWN ON PLANS OR LISTED IN EQUIPMENT SCHEDULES.
- NATURAL GAS PIPING WHERE REQUIRED SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR, WHICH SHALL INCLUDE FINAL CONNECTIONS TO HVAC EQUIPMENT. COORDINATE ALL EQUIPMENT LOCATIONS THAT REQUIRE NATURAL GAS WITH THE PLUMBING CONTRACTOR.
- ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE STRUCTURAL STEEL WHERE REQUIRED IN ORDER TO SUPPORT EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES WHERE THE BUILDING STRUCTURE SPACING IS TOO GREAT TO ALLOW DIRECT SUPPORT. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF ALL SUPPORTS AND SHALL OBTAIN THE PROFESSIONAL SERVICE OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND FURNISH SEALED DRAWINGS AND DETAILS ILLUSTRATING SUCH SUPPORTS AND COMPLIANCE METHODS.
- THE ABOVE GENERAL NOTES APPLY TO ALL HVAC CONSTRUCTION DOCUMENT DRAWINGS.

—CA— COMPRESSED AIR	—HPLR— HEAT PUMP LOOP RETURN
—CD— CONDENSATE DRAIN	—HPLS— HEAT PUMP LOOP SUPPLY
—GHR— GLYCOL HOT WATER RETURN	—HPC— HIGH PRESSURE CONDENSATE
—GHS— GLYCOL HOT WATER SUPPLY	—HPS— HIGH PRESSURE STEAM
—CHWR— CHILLED WATER RETURN	—MPC— MEDIUM PRESSURE CONDENSATE
—CHWS— CHILLED WATER SUPPLY	—MPS— MEDIUM PRESSURE STEAM
—C— CONDENSATE	—LPC— LOW PRESSURE CONDENSATE
—CTR— COOLING TOWER RETURN	—LPS— LOW PRESSURE STEAM
—CTS— COOLING TOWER SUPPLY	—HWR— HOT WATER RETURN
—MU— MAKE-UP WATER	—HWS— HOT WATER SUPPLY
—DN— DIRECTION OF PITCH	—MU— MAKE-UP WATER
—RHL— REFRIGERANT H/L PRESSURE	—NG— NATURAL GAS
—RL— REFRIGERANT LIQUID	—PC— PUMPED CONDENSATE
—RS— REFRIGERANT SUCTION	—VAC— VACUUM
—SV— STEAM VENT	—IW— INDIRECT WASTE



NOTE:  
NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

APPLICABLE CODES

EQUIPMENT DESIGNATIONS

ABBREVIATIONS

1 BUILDING CODE OF NEW YORK STATE
2 ENERGY CODE OF NEW YORK STATE
3 MECHANICAL CODE OF NEW YORK STATE
4 FIRE CODE OF NEW YORK STATE
5 PLUMBING CODE OF NEW YORK STATE
6 ENERGY CONSERVATION CODE OF NEW YORK STATE
7 ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
8 NATIONAL ELECTRIC CODE
9 NATIONAL FIRE CODE NFPA 13

<b>ACU</b> AIR CONDITIONING UNIT	<b>HC</b> HEATING COIL
<b>AHU</b> AIR HANDLING UNIT	<b>HP</b> HEAT PUMP
<b>AD</b> ACCESS DOOR	<b>HU</b> HUMIDIFIER
<b>AS</b> AIR SEPARATOR	<b>HWP</b> HOT WATER PUMP
<b>BDD</b> BACK DRAFT DAMPER	<b>HX</b> HEAT EXCHANGER
<b>B</b> BOILER	<b>L</b> LOUVER
<b>CA</b> AIR COMPRESSOR	<b>MAU</b> MAKE UP AIR UNITS
<b>CAV</b> CONSTANT AIR VOLUME BOX	<b>MD</b> MOTORIZED DAMPER
<b>CC</b> COOLING COIL	<b>P</b> PUMP
<b>CFP</b> CHEMICAL FEED PUMP	<b>PHC</b> PREHEAT COIL
<b>CH</b> CHILLER	<b>PPU</b> PUMPING PACKAGED UNIT
<b>CHP</b> CHILLED WATER PUMP	<b>PRG</b> GAS PRESSURE REGULATOR
<b>CP</b> CONDENSATE PUMP	<b>PRV</b> PRESSURE REDUCING VALVE
<b>CRAC</b> COMPUTER ROOM UNIT	<b>R</b> REGISTER
<b>CRU</b> CONDENSATE RETURN UNIT	<b>RCP</b> RADIANT CEILING PANEL
<b>CT</b> COOLING TOWER	<b>RTU</b> ROOF TOP UNIT
<b>CU</b> CONDENSING UNIT	<b>UH</b> UNIT HEATER
<b>CUH</b> CABINET UNIT HEATER	<b>UV</b> UNIT VENTILATOR
<b>CV</b> CONTROL VALVE	<b>VAV</b> VARIABLE AIR VOLUME BOX
<b>DHW</b> DOMESTIC WATER HEATER	<b>VD</b> VOLUME DAMPER
<b>EF</b> EXHAUST FAN	<b>VED</b> VARIABLE SPEED DRIVE
<b>ET</b> EXPANSION TANK	<b>WS</b> WATER SOFTENER
<b>FCU</b> FAN COIL UNIT	
<b>FP</b> FIRE PUMP	
<b>FT</b> FINNED TUBE	

NOTE:  
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

<b>%</b> PERCENT	<b>FA</b> FINISHED FLOOR	<b>FREE AREA</b>
<b>AC</b> ALTERNATING CURRENT	<b>FL</b> FLOOR	<b>NO</b> NOT IN CONTRACT
<b>ADJ</b> ADJACENT	<b>FLA</b> FULL LOAD AMPS	<b>NPT</b> NORMALLY OPEN
<b>AFF</b> ABOVE FINISHED FLOOR	<b>FPM</b> FEET PER MINUTE	<b>NRS</b> NON-RISING STEM
<b>AFG</b> ABOVE FINISHED GRADE	<b>FPS</b> FEET PER SECOND	<b>NTS</b> NOT TO SCALE
<b>ALT</b> ALTERNATE	<b>FO</b> FOOT OR FEET	<b>OC</b> ON CENTER
<b>AMB</b> AMBIENT	<b>FUT</b> FUTURE	<b>OD</b> DIAMETER, OUTSIDE
<b>AMP</b> AMPERE (AMP AMPS)	<b>GAGE OR GAUGE</b>	<b>OS&amp;Y</b> OUTSIDE SCREW AND YOKE
<b>ANSI</b> AMERICAN NATIONAL STANDARD INSTITUTE	<b>GAL</b> GALLONS	<b>PC</b> PLUMBING CONTRACTOR
<b>APPROX</b> APPROXIMATE (LY)	<b>GC</b> GENERAL CONTRACTOR	<b>PLBG</b> PLUMBING
<b>AVG</b> AVERAGE	<b>GPM</b> GALLONS PER MINUTE	<b>PH</b> PHASE (ELECTRICAL)
<b>BFP</b> BACKFLOW PREVENTER	<b>GP</b> GALLONS PER DAY	<b>PRESS</b> PRESSURE
<b>BHP</b> BRAKE HORSEPOWER	<b>GPD</b> GALLONS PER DAY	<b>PSF</b> POUNDS PER SQUARE FOOT
<b>BLDG</b> BUILDING	<b>GPH</b> GALLONS PER HOUR	<b>PSI</b> POUNDS PER SQUARE INCH
<b>BO</b> BOTTOM OF	<b>HD</b> HEAD	<b>PSIG</b> PSI GAUGE
<b>BSMT</b> BASEMENT	<b>HG</b> MERCURY	<b>PRV</b> PRESSURE REDUCING VALVE
<b>BTU</b> BRITISH THERMAL UNIT	<b>HORIZ</b> HORIZONTAL	<b>RCVR</b> RECEIVER
<b>BV</b> BALANCING VALVE	<b>HP</b> HORSEPOWER	<b>RECIRC</b> RECIRCULATE
<b>CAP</b> CAPACITY	<b>HPC</b> HIGH PRESSURE CONDENSATE	<b>RHW</b> HOT WATER RE-CIRCULATION
<b>CIP</b> CAST IRON PIPE	<b>HPS</b> HIGH PRESSURE STEAM	<b>RO</b> ROUGH OPENING
<b>CLG</b> CEILING	<b>HR</b> HOUR	<b>RPDA</b> REDUCED-PRESSURE DETECTOR ASSY.
<b>CLR</b> CLEAR	<b>HVAC</b> HEATING, VENTILATING, AND AIR CONDITIONING	<b>RPM</b> REVOLUTIONS PER MINUTE
<b>COL</b> CLEANOUT or CARBON MONOXIDE COLUMNS	<b>ID</b> DIAMETER, INSIDE	<b>RPZ</b> REDUCED-PRESSURE ZONE
<b>CONN</b> CONNECTION	<b>IN</b> INCH	<b>SCH</b> STEAM CAPTURE HOOD
<b>CONC</b> CONCRETE	<b>INSUL</b> INSULATION	<b>SPEC</b> SPECIFICATION
<b>CONT</b> CONTINUOUS	<b>INT</b> INTERIOR	<b>SPLY</b> SUPPLY
<b>CU FT</b> CUBIC FEET	<b>IPS</b> IRON PIPE SIZE	<b>SO</b> SQUARE
<b>CV</b> VALVE FLOW COEFFICIENT	<b>INV</b> INVERT	<b>SQ FT</b> SQUARE FOOT (FEET)
<b>DDDA</b> DOUBLE CHECK DETECTOR ASSEMBLY	<b>KW</b> KILOWATT	<b>SQ IN</b> SQUARE INCH (INCHES)
<b>DCV</b> DETECTOR CHECK VALVE	<b>KWH</b> KILOWATT HOUR	<b>STD</b> STANDARD
<b>DCW</b> DOMESTIC COLD WATER	<b>LBS</b> POUNDS	<b>SUCT</b> SUCTION
<b>DEMO</b> DEMOLISH or DEMOLITION	<b>LD</b> LINED DUCT	<b>TSTAT</b> THERMOSTAT
<b>DHW</b> DOMESTIC HOT WATER	<b>LF</b> LINEAR FEET	<b>TBD</b> TO BE DETERMINED
<b>DIA</b> DIAMETER	<b>LG</b> LENGTH	<b>TC</b> TEMPERATURE CONTROL CONTRACTOR
<b>DIP</b> DUCTILE IRON PIPE	<b>LOC</b> LOCATION	<b>TD</b> TEMPERATURE DIFFERENCE
<b>DWH</b> DOMESTIC WATER HEATER	<b>LPC</b> LOW PRESSURE CONDENSATE	<b>TEMP</b> TEMPERATURE
<b>DWV</b> DRAIN, WASTE, & VENT	<b>LPS</b> LOW PRESSURE STEAM	<b>TMV</b> THERMOSTATIC MIXING VALVE
<b>DWG</b> DRAWING	<b>LRA</b> LOCKED ROTOR AMPS	<b>TO</b> TOP OF
<b>(E)</b> EXISTING	<b>LWT</b> LEAVING WATER TEMPERATURE	<b>TOP</b> TYPICAL
<b>ENGR</b> ENGINEER	<b>MATL</b> MATERIAL	<b>V</b> VOLT
<b>EQ</b> EQUAL	<b>MAX</b> MAXIMUM	<b>VAC</b> VACUUM
<b>EST</b> ESTIMATED	<b>MBH</b> BTU PER HOUR (THOUSAND)	<b>VAR</b> VARIABLE
<b>ETR</b> EXISTING TO REMAIN	<b>MECH</b> MECHANICAL	<b>VEL</b> VELOCITY
<b>EW</b> ELECTRIC WATER HEATER	<b>MFG</b> MANUFACTURER	<b>VIF</b> VERIFY IN FIELD
<b>EWT</b> ENTERING WATER TEMPERATURE	<b>MIN</b> MINIMUM	<b>VOL</b> VOLUME
<b>EX</b> EXISTING	<b>MISC</b> MISCELLANEOUS	<b>W</b> WAIT
<b>EXIST</b> EXISTING	<b>MOCP</b> MAXIMUM OVERCURRENT PROTECTION	<b>W/</b> WITH
<b>EXP</b> EXPANSION	<b>MPC</b> MEDIUM PRESSURE CONDENSATE	<b>W/O</b> WITH OUT
<b>EXT</b> EXTERIOR	<b>MPS</b> MEDIUM PRESSURE STEAM	<b>WCO</b> WALL CLEANOUT
<b>F</b> DEGREES FAHRENHEIT	<b>MTG</b> MOUNTING	<b>WHA</b> WATER HAMMER ARRESTER
	<b>N/A</b> NOT APPLICABLE	<b>WM</b> WATER METER
	<b>NC</b> NORMALLY CLOSED	<b>WPD</b> WATER PRESSURE DROP
		<b>WT</b> WEIGHT
		<b>WPP</b> WORKING WATER PRESSURE

NOTE:  
SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

300 State Street, Suite 201  
Rochester, NY 14614  
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**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **JLJ**

REVIEWED BY: **JSN**

ISSUED FOR: **BID SET**

DATE: **25 JAN 2019**

DRAWING NAME:

**MECHANICAL LEGEND SHEET**

DRAWING NUMBER:

**M-001**



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

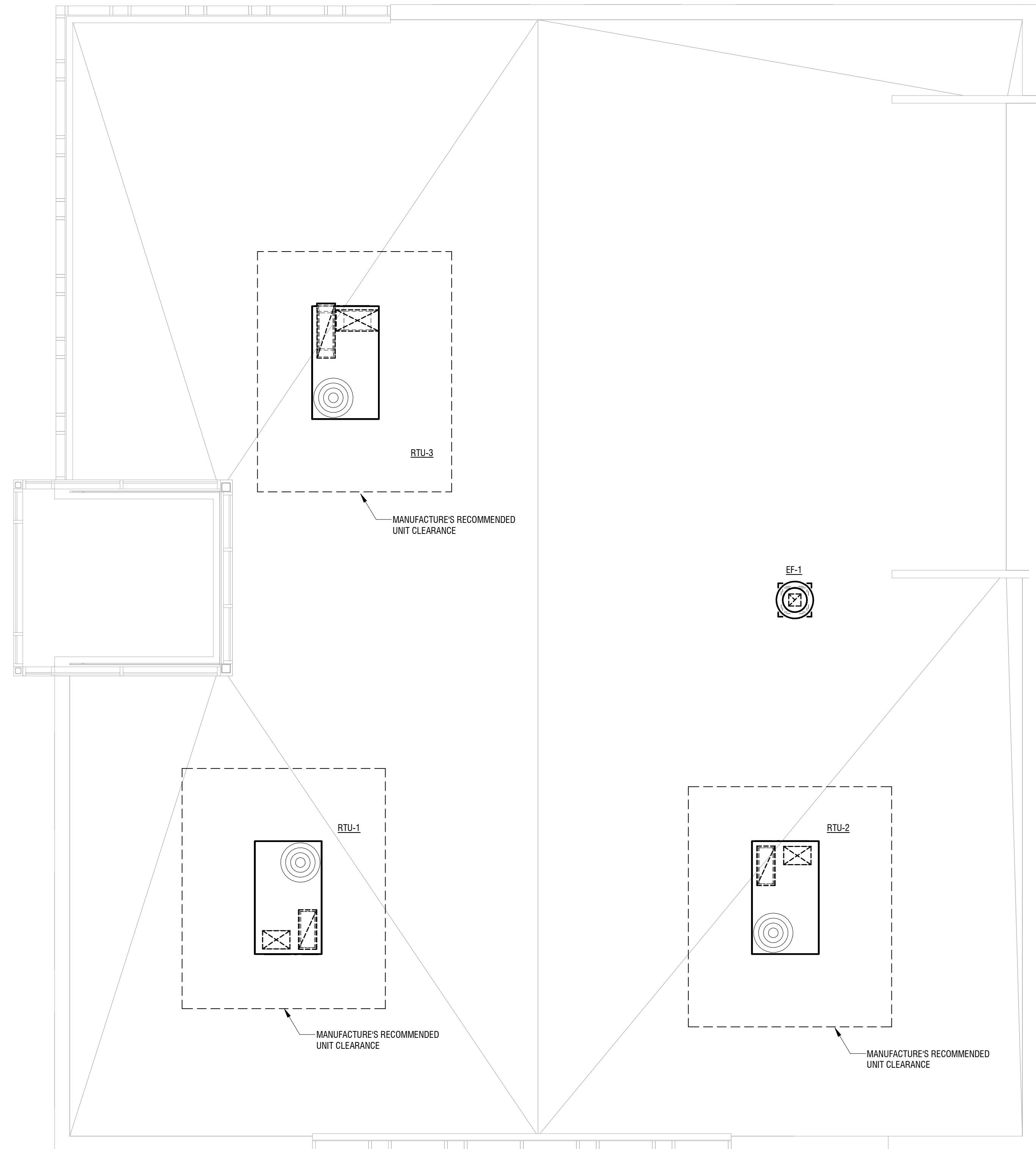
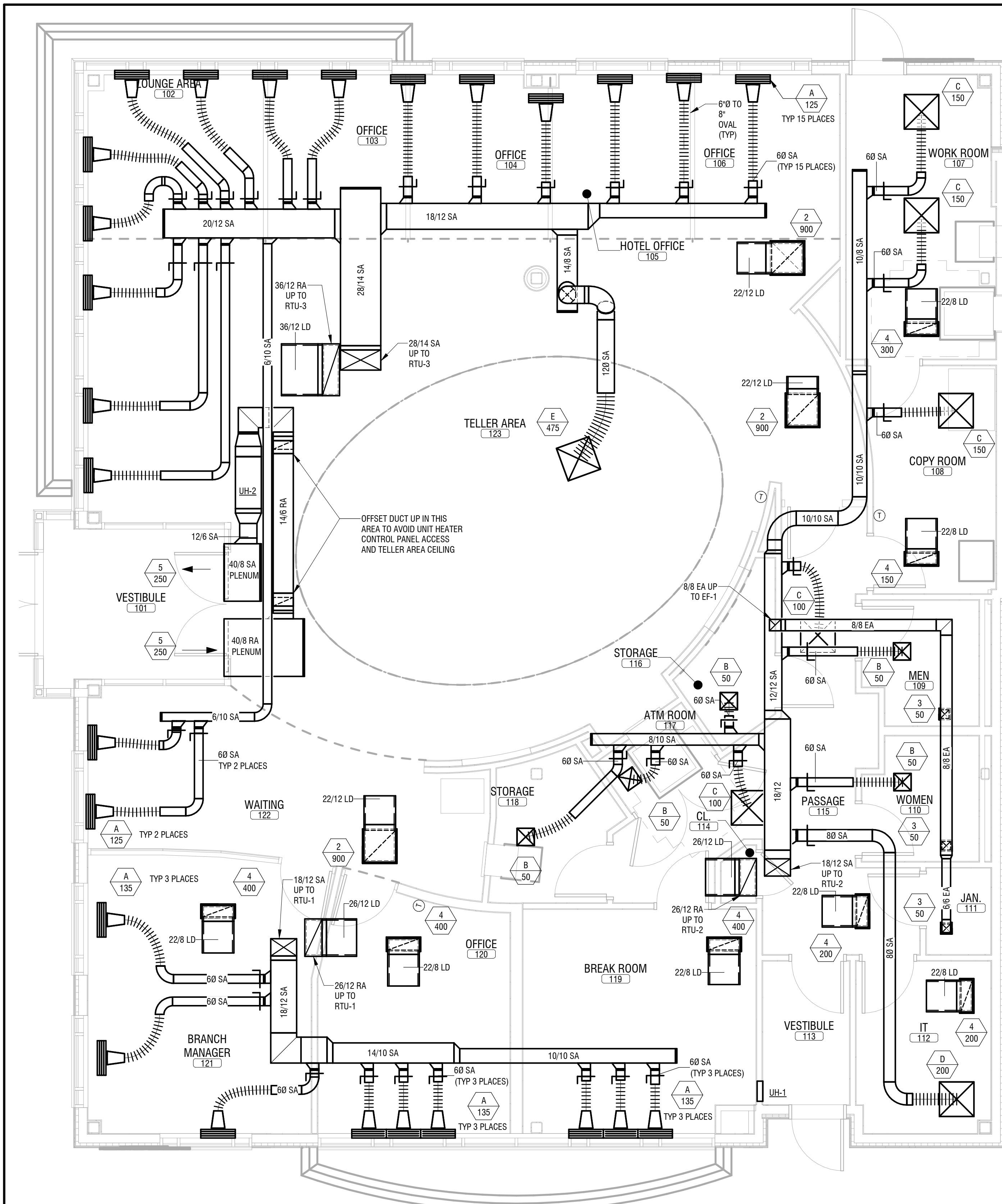
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2181539		
DRAWN BY: JLJ		
REVIEWED BY: JSN		
ISSUED FOR: BID SET		
DATE: 25 JAN 2019		
DRAWING NAME:		

**MECHANICAL PLAN**

DRAWING NUMBER:

**M-101**



NOTE: ALL ROOFTOP UNITS SHALL BE 10'-0" MIN FROM EDGE OF BUILDING. ALL EXHAUST OUTLETS SHALL BE 10'-0" MIN FROM ANY FRESH AIR INTAKES.

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

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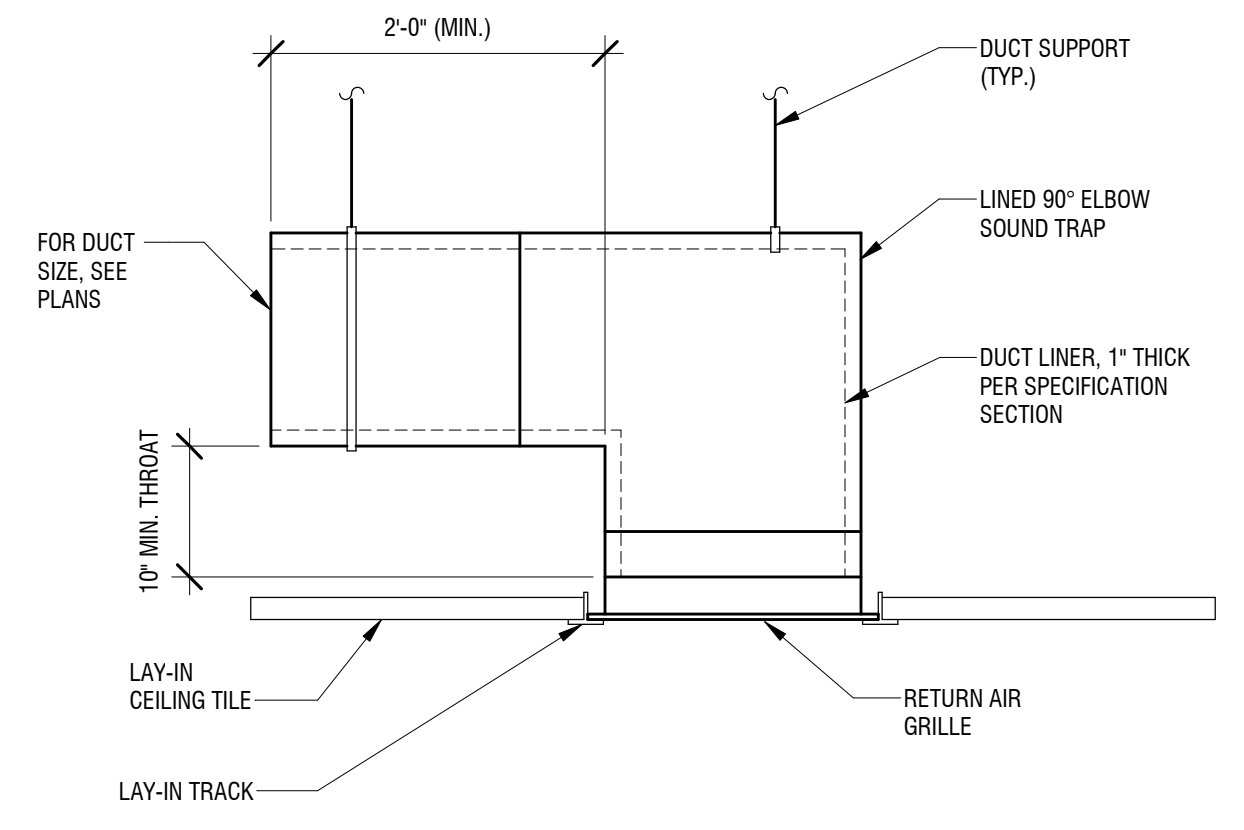
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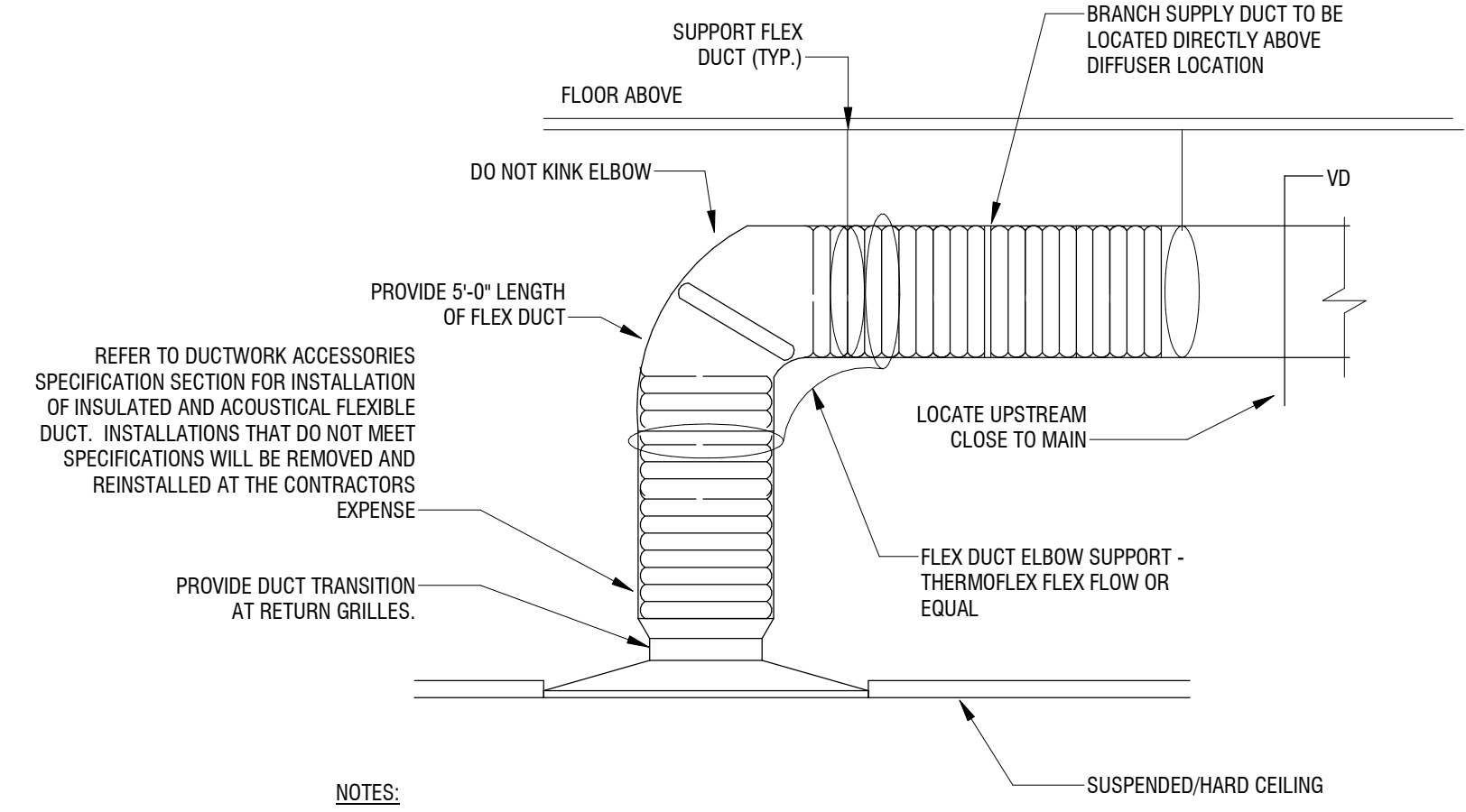
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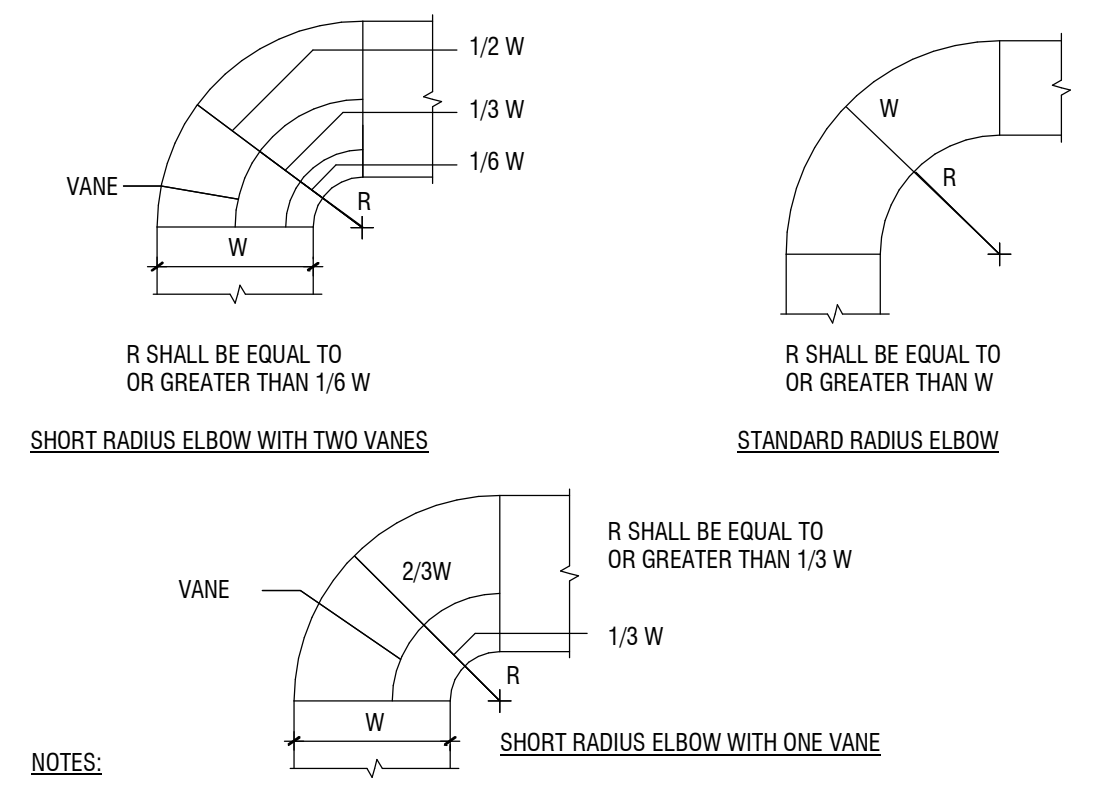
**M-501**



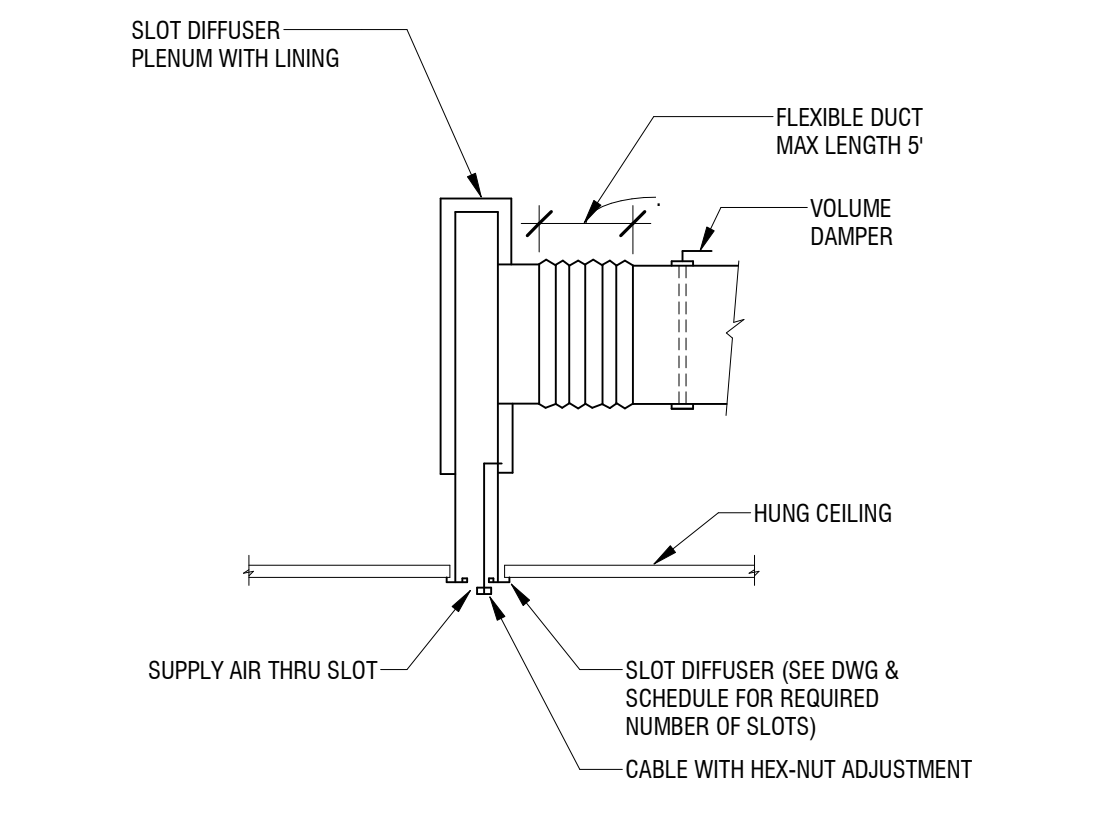
**4 RETURN GRILLE W/ SOUND/LIGHT TRAP**  
M-501 NOT TO SCALE



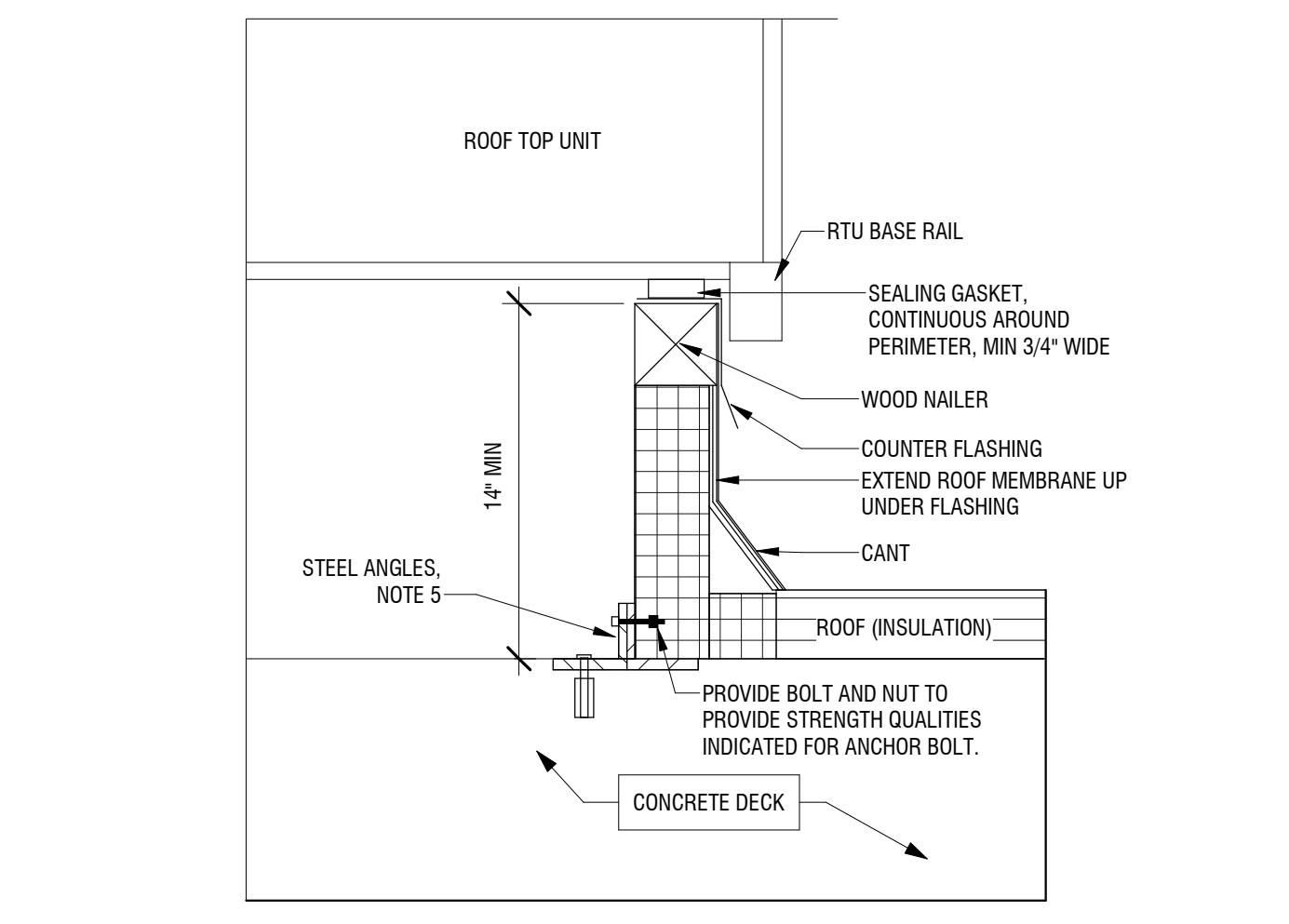
**8 DIFFUSER CONNECTION DETAIL**  
M-501 NOT TO SCALE



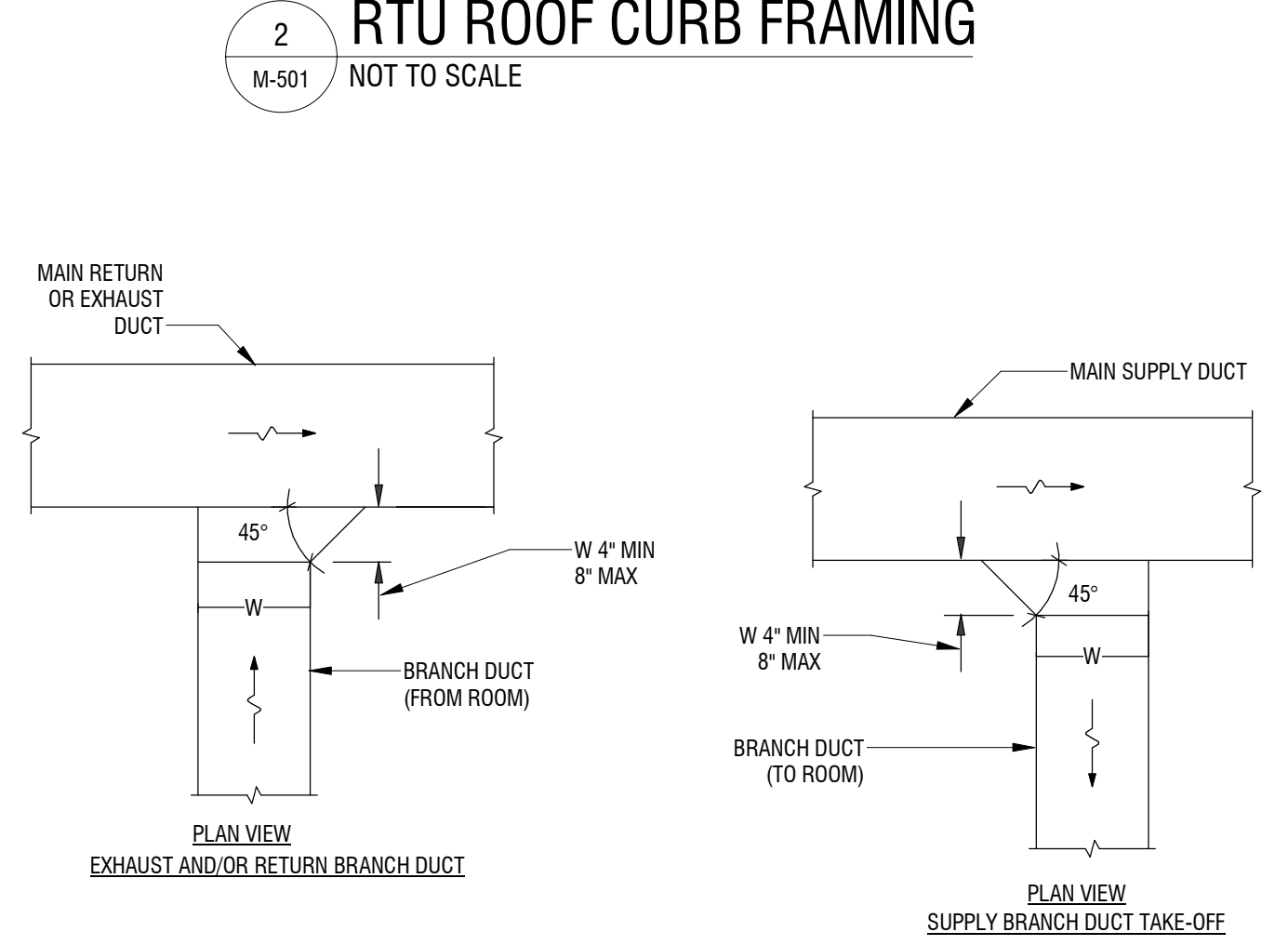
**3 TYPICAL RADIUS ELBOWS**  
M-501 NOT TO SCALE



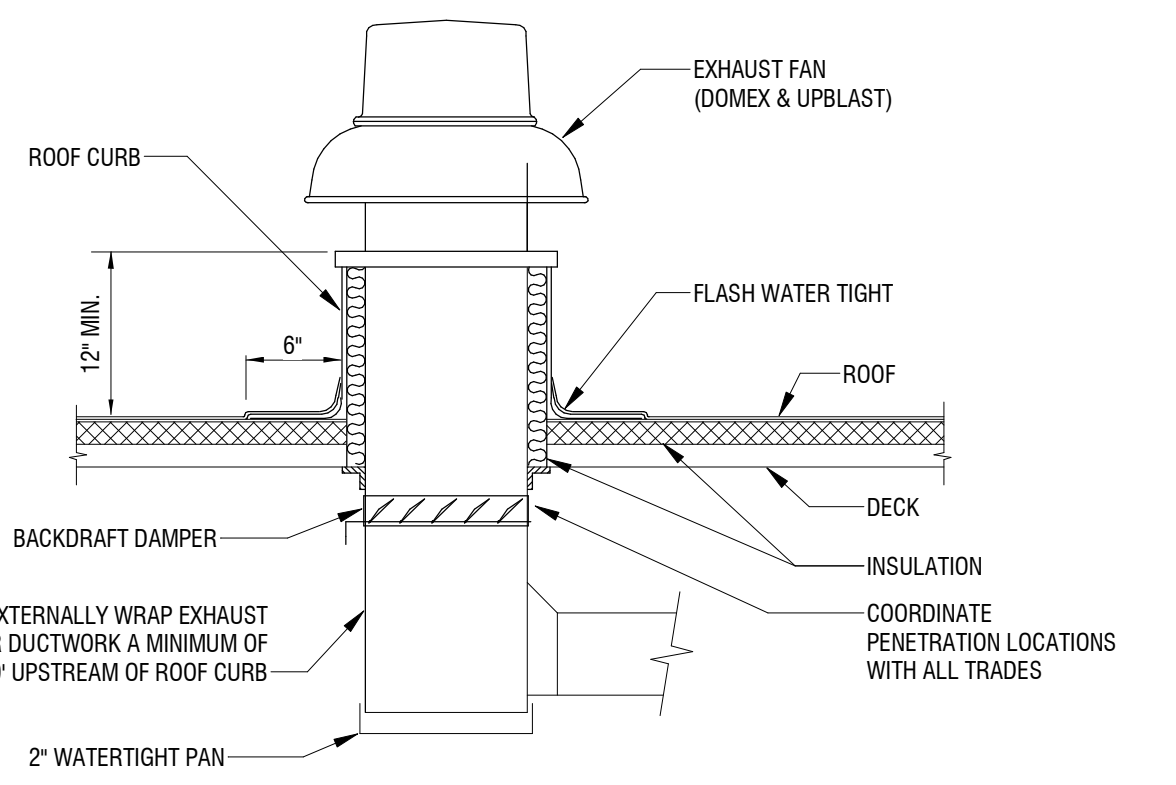
**7 LINEAR DIFFUSER DETAIL**  
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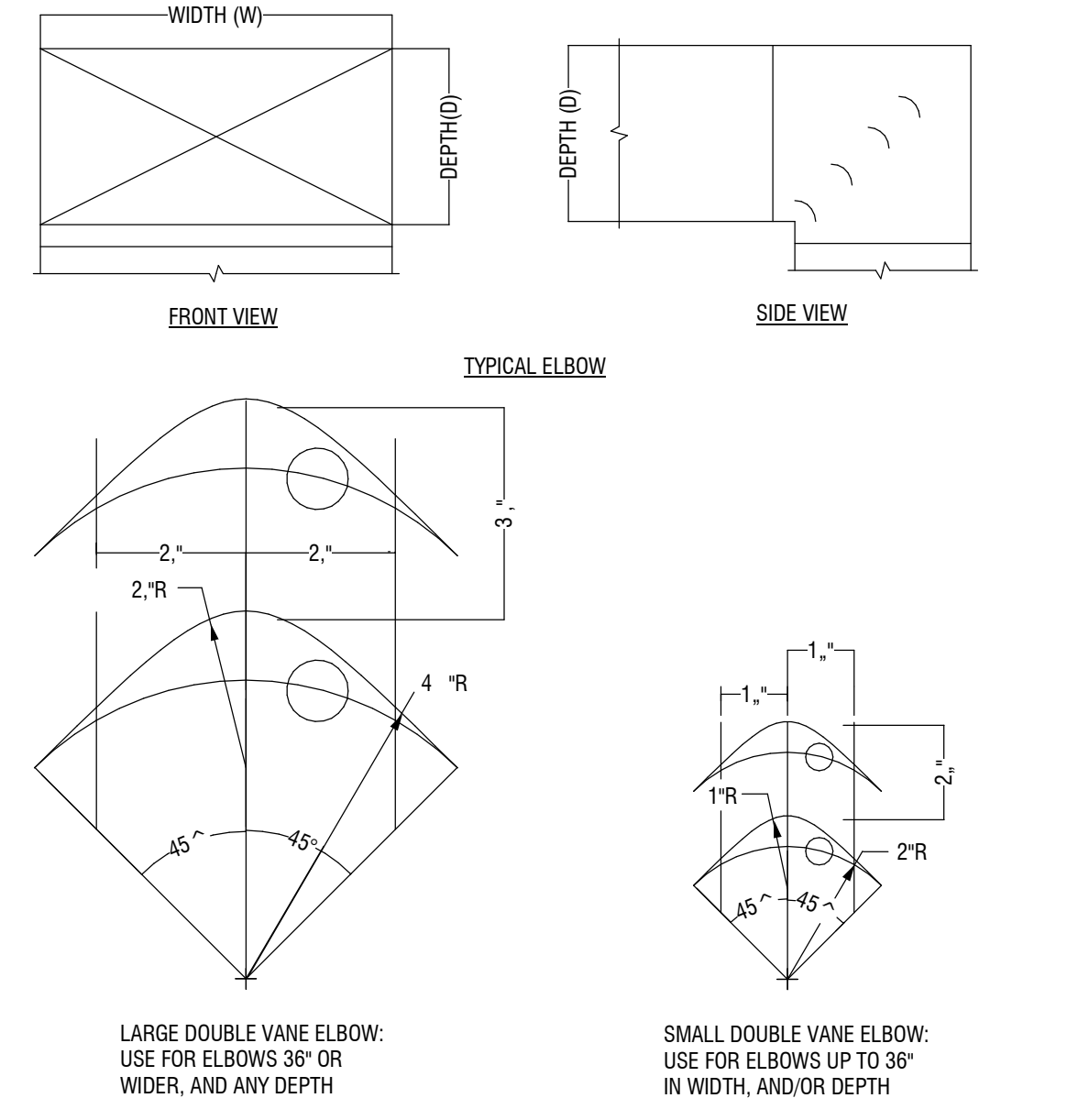
**2 RTU ROOF CURB FRAMING**  
M-501 NOT TO SCALE



**6 TYPICAL DUCTWORK DETAILS**  
M-501 NOT TO SCALE



**1 EXHAUST FAN DETAIL**  
M-501 NOT TO SCALE



**5 SQUARE OR RECTANGULAR ELBOWS**  
M-501 NOT TO SCALE

Plan Code	Location	Nominal Tonnage	Air Handling Data										Cooling Data										Heating Data										Filter		Weight (lbs)	Manufacturer	Model No.	Remarks
			O.A. CFM	CFM	EXT. S.P.	Fan RPM	EAT		LAT		Cap. MBH	SEER	ARI EER	EAT	Input MBH	Output MBH	Natural Gas Pressure Range (in wg)	Type	BHP	MCA	MOCP	Volts	Phase															
							DB	WB	DB	WB																												
RTU-1	ROOF	3	100	1200	0.75	1816	80.0	67.0	60.4	57.8	34.93	14.00	--	95	82.0/110.0	65.0/88.0	4.0-13.0	MERV 8	0.46	19	25	208	3	598	CARRIER	48FCEA04A2A5-6W0F0	1,2,3,4,5,6,8											
RTU-2	ROOF	3	150	1000	0.75	1714	80.0	67.0	58.7	56.2	33.59	16.00	--	95	67.0	53.0	4.0-13.0	MERV 8	0.39	19	30	208	3	508	CARRIER	48GCDM04A1A5-6W0F0	1,2,3,4,5,6,8											
RTU-3	ROOF	6	200	2600	0.75	2505	76.0	61.0	54.7	51.7	67.29	--	12.00	95	150.0	120.0	4.0-13.0	MERV 8	1.62	28	45	208	3	671	CARRIER	48FCFM07A2A5-6W0F0	1,2,3,4,5,6,7,8											

**ROOFTOP SCHEDULE**

Plan Code	Location	Service	Type	CFM	S.P.	Fan RPM	Fan Drive	Motor Data			Max. Sones	Weight	Notes	Manufacturer	Model No.
								HP	Volts	Phase					
EF-1	ROOF	RESTROOMS	DOWNBLAST	150	0.125	860	BELT	1/6	115	1	2.7	60	1,2,3,4,5	GREENHECK	GB-071

**EXHAUST FAN SCHEDULE**

No.	Neck Size	Face Size	Use	Matl	Mounting	Damper	Remarks	Finish	Manufacturer	Model
B	6" DIA	12"x12"	SUPPLY	STEEL	LAY-IN	NONE	NONE	WHITE	PRICE	SCD
C	6" DIA	24"x24"	SUPPLY	STEEL	LAY-IN	NONE	NONE	WHITE	PRICE	SCD
D	8" DIA	24"x24"	SUPPLY	STEEL	LAY-IN	NONE	NONE	WHITE	PRICE	SCD
E	8" DIA	24"x24"	SUPPLY	STEEL	LAY-IN	NONE	NONE	WHITE	PRICE	SCD

No.	Neck Size	Face Size	Use	Matl	Mounting	Damper	Remarks	Finish	Manufacturer	Model
2	22"x22"	24"x24"	RETURN	STEEL	LAY-IN	NONE	1/2" BLADE SPACING 35 DEG. DEFLECTION	WHITE	PRICE	535
3	6"x6"	6"x6"	EXHAUST	STEEL	LAY-IN	NONE	1/2" BLADE SPACING 35 DEG. DEFLECTION	WHITE	PRICE	535
4	22"x8"	24"x10"	RETURN	STEEL	LAY-IN	NONE	1/2" BLADE SPACING 35 DEG. DEFLECTION	WHITE	PRICE	535
5	N/A	36"x4"	SUPPLY/RETURN	STEEL	WALL	NONE	1/2" BLADE SPACING 15 DEG. DEFLECTION	WHITE	PRICE	LBP16B

**DIFFUSER SCHEDULE**

**GRILLE SCHEDULE**

No.	Type	ESP (in)	CFM	Cap. MBH	Electric Data	KW	Amps	Mounting	Remarks	Manufacturer	Model
UH-2	CABINET HEATER	0.3	250	--	208/3	5	14.97	HUNG FROM DECK	2	MARKEL	F367205

**ELECTRIC UNIT HEATER SCHEDULE**

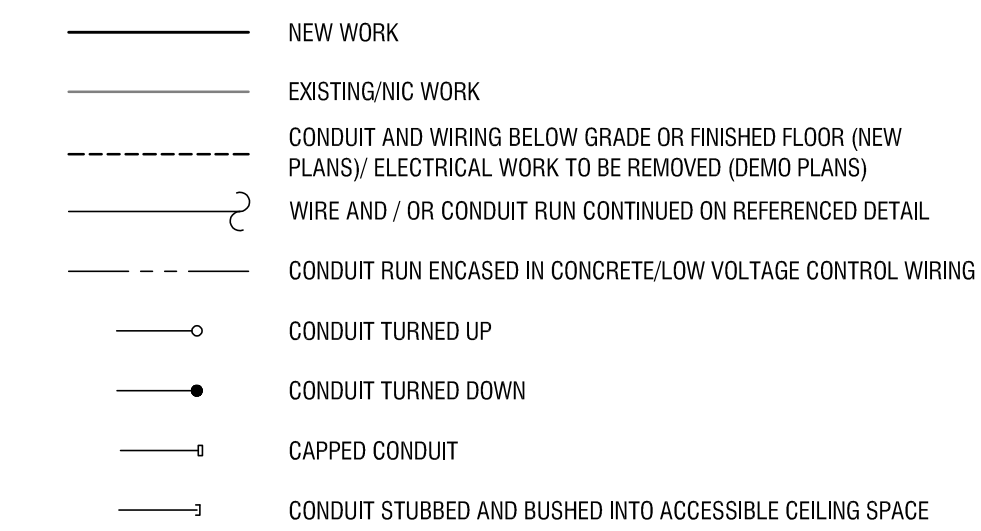
GENERAL ELECTRICAL NOTES

- FOR EXACT LOCATION AND FINISH SURFACE CONDITIONS OF CEILING, WALL, FLOOR MOUNTED DEVICES, REFER TO ARCHITECTURAL DRAWINGS.
- FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS AND SMOKE RATED WALLS, REFER TO ARCHITECTURAL DRAWINGS.
- COORDINATE FINAL OUTLET LOCATION WITH ALL TRADES AND FURNITURE/CASEWORK PLACEMENT PRIOR TO ROUGH-IN. GC SHALL PROVIDE ALL DRILLING AND GROMMETING IN FURNITURE/CASEWORK FOR CORD ACCESS IF REQUIRED.
- COORDINATE LOCATIONS OF ALL RECEPTACLES AND LUMINAIRES IN MECHANICAL SPACES WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN TO AVOID CONFLICTS WITH EQUIPMENT AND DUCTWORK.
- VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO CONNECTION.
- MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT, UNO.
- PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
- PROVIDE MINIMUM BRANCH CIRCUIT WIRE SIZE AND CONDUIT PER SPECIFICATIONS. MAINTAIN MAXIMUM BRANCH CIRCUIT CONDUCTOR LENGTHS PER NEC & AS SCHEDULED ON THIS DRAWING, INCREASING SIZE AS NECESSARY. INCLUDE GROUND CONDUCTOR DERATINGS.
- PROVIDE A SEPARATE NEUTRAL CONDUCTOR FROM PANELBOARD FOR ALL BRANCH CIRCUITS, UNO. DERATE CONDUCTORS PER NEC ACCORDINGLY.
- PROVIDE GROUNDING PER NEC. PROVIDE GREEN GROUND CONDUCTOR IN ALL BRANCH AND FEEDER CIRCUITS.
- SWITCHES SHOWN SIDE BY SIDE SHALL BE INSTALLED UNDER A COMMON COVERPLATE, UNO.

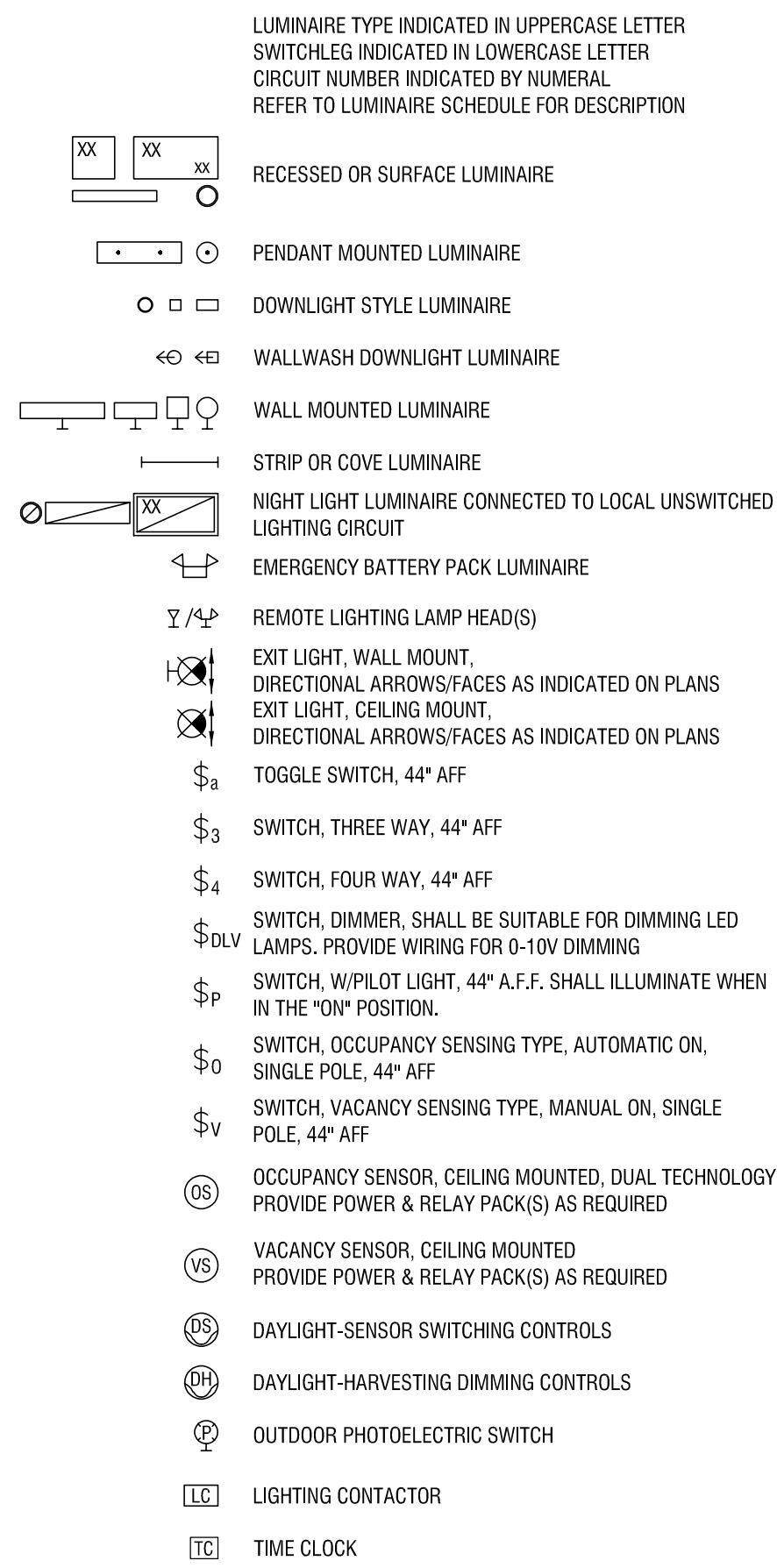
ELECTRICAL ABBREVIATIONS

Φ PHASE	MAG MAGNETIC
A AMPERE	MAN MANUAL
AC ABOVE COUNTER	MAX MAXIMUM
AF AMPERE FUSE	MATV MASTER ANTENNA TELEVISION
AFCI ARC-FAULT CIRCUIT INTERRUPTER	MC MECHANICAL CONTRACTOR
AFF ABOVE FINISHED FLOOR	MCA MINIMUM CIRCUIT AMPACITY
AFG ABOVE FINISHED GRADE	MCB MAIN CIRCUIT BREAKER
AHJ AUTHORITY HAVING JURISDICTION	MCC MOTOR CONTROL CENTER
AHU AIR HANDLING UNIT	MCS MOLDED CASE SWITCH
AIC AMPERE INTERRUPTING CAPACITY	MCP MOTOR CIRCUIT PROTECTOR
AL ALUMINUM	MDF MAIN DISTRIBUTION FRAME
AM AMPMETER	MDP MAIN DISTRIBUTION PANELBOARD
ANW ANNUNCIATOR	MECH MECHANICAL
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	MER MAIN EQUIPMENT ROOM
AS AMPERE FRAME SIZE	MFR MANUFACTURER
ATS AUTOMATIC TRANSFER SWITCH	MFS MAIN FUSED SWITCH
AV AUDIO VISUAL	MGP MEDICAL GAS PANEL
AVG AVERAGE	MH MANHOLE
AWG AMERICAN WIRE GAUGE	MI MINERAL INSULATED CABLE
BAS BUILDING AUTOMATION SYSTEM	MIC MICROPHONE
BKBD BACKBOARD	MLO MAIN LUGS ONLY
BKR CIRCUIT BREAKER	MM MULTIMODE
BLDG BUILDING	MTD MOUNTED
C CONDUIT	MV MEDIUM VOLTAGE
CAT CATALOG	N NEUTRAL
CATV CABLE ANTENNA TELEVISION	NA NOT APPLICABLE
CB CIRCUIT BREAKER	NC NORMALLY CLOSED CONTACT
CCTV CLOSED CIRCUIT TELEVISION	NEC NATIONAL ELECTRIC CODE
CKT CIRCUIT	NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CLG CEILING	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
CM CONSTRUCTION MANAGER	NIC NOT IN CONTRACT
CO COMPANY	NO NORMALLY OPEN CONTACT
COAX COAXIAL	NOC NETWORK OPERATIONS CENTER
CT CURRENT TRANSFORMER	NOM NOMINAL
CTTS CLOSED TRANSITION TRANSFER SWITCH	NRS NOT TO SCALE
CU COPPER	NTR NETWORK VIDEO RECORDER
DC DIRECT CURRENT	OA OUTSIDE AIR
DIA DIAMETER	OC ON CENTER
DISC DISCONNECT	OCPD OVERCURRENT PROTECTIVE DEVICE
DIV DIVISION	OD OUTSIDE DIAMETER
DN DOWN	OH OVERHEAD
DO DRAWOUT	OL OVERLOAD
DPDT DOUBLE POLE DOUBLE THROW	P POLE
DPT DOUBLE POLE SINGLE THROW	PA PUBLIC ANNOUNCEMENT
DIS DISCONNECT SWITCH	PB PULLBOX/PUSHBUTTON
DSP DIGITAL SIGNAL PROCESSOR	PC PERSONAL COMPUTER
DVD DIGITAL VERSATILE DISC	PCU PACKAGED CONTROL UNIT
DVR DIGITAL VIDEO RECORDER	P/E PNEUMATIC-ELECTRIC
DVS DIGITAL VIDEO SURVEILLANCE	PH PHASE
DWG DRAWING	PNL PANELBOARD
EA EACH	PLC PROGRAMMABLE LOGIC CONTROLLER
EC ELECTRICAL CONTRACTOR	POE POWER OVER ETHERNET
ECB ENCLOSED CIRCUIT BREAKER	PRI PRIMARY
EF EXHAUST FAN	PSU PATIENT SERVING UNIT
EGS ENGINE-GENERATOR SET	PT POTENTIAL TRANSFORMER
ELEC ELECTRIC	PTZ PAN TILT ZOOM
ELEV ELEVATOR	PVC POLYVINYL CHLORIDE
EMT ELECTRICAL METALLIC TUBING	PWR POWER
EQUIP EQUIPMENT	RAID REDUNDANT ARRAY OF INDEPENDENT DISKS
EWC ELECTRIC WATER COOLER	RCP REFLECTED CEILING PLAN
EXH EXHAUST	RCPT RECEPTACLE
FA FIRE ALARM	RE REFER TO
FAAP FIRE ALARM ANNUNCIATOR PANEL	REC RECEPTACLE
FACP FIRE ALARM CONTROL PANEL	REF REFRIGERATOR
FACU FIRE ALARM CONTROL UNIT	RF RADIO FREQUENCY
FATC FIRE ALARM TERMINAL CABINET	RF RETURN FAN
FBO FURNISHED BY OWNER	RFID RADIO FREQUENCY IDENTIFICATION DEVICE
FC FOOTCANDLE	RM ROOM
FI FILM ILLUMINATOR	RMC RIGID METAL CONDUIT
FLA FULL LOAD AMPS	RUPS ROTARY HYBRID UNINTERRUPTIBLE POWER SUPPLY
FLR FLOOR	SCHED SCHEDULE
FLOUR FLUORESCENT	SD SMOKE DAMPER
FPS FRAMES PER SECOND	SEC SECONDARY
FPJ FIELD PROCESSING UNIT	SF SUPPLY FAN
FS FUSED SWITCH	SFL SUB FEED LUGS
FTL FEED THRU LUGS	SFP SURGICAL FACILITY PANEL
GA GAUGE	SH SHEET
GC GENERAL CONTRACTOR	SM SINGLE MODE
GE GROUNDING EQUALIZER CONDUCTOR	SP SINGLE POLE
GEN GENERATOR	SPDT SINGLE POLE DOUBLE THROW
GFCI GROUND FAULT CIRCUIT INTERRUPTING	SPST SINGLE POLE SINGLE THROW
GFI GROUND FAULT INTERRUPTING	SPC SPACE
GFR GROUND FAULT RELAY	SPD SURGE PROTECTIVE DEVICE
GFR1 GROUND FAULT RELAY TEST PANEL	SPEC SPECIFICATION
GND GROUND	SPKR SPEAKER
GRC GALVANIZED RIGID CONDUIT	SPR SPARE
HCT HARMONIC CONDITIONING TRANSFORMER	SS STAINLESS STEEL
HF HARMONIC FILTER	ST SHUNT TRIP
HFT HARMONIC FILTER WITH INTEGRAL TRANSFORMER	STD SHORT TIME DELAY
HID HIGH INTENSITY DISCHARGE	STP SHIELDED TWISTED PAIR
HDA HAND OFF AUTO	STR STARTER
HP HORSEPOWER	SWBD SWITCHBOARD
HST HARMONIC SUPPRESSION TRANSFORMER	SWGR SWITCHGEAR
HSKPG HOUSEKEEPING	SYM SYMMETRICAL
HTR HEATER	TBB TELECOMMUNICATIONS BONDING BACKBONE
HV HIGH VOLTAGE	TC TERMINAL CABINET
HZ HERTZ (CYCLES/SECOND)	TERM TERMINAL
ICC INTERMEDIATE CROSS CONNECT	TEL TELEPHONE
ID INSIDE DIAMETER	TGB TELECOMMUNICATIONS GROUNDING BUS BAR
IDF INTERMEDIATE DISTRIBUTION FRAME	THD TOTAL HARMONIC DISTORTION
IMC INTERMEDIATE METAL CONDUIT	TMBG TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
IP INTERNET PROTOCOL	TR TELECOMMUNICATIONS ROOM
IPS IMAGES PER SECOND	TRANS TRANSITION
IR INFRARED	TSER TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
JB JUNCTION BOX	TTC TELEPHONE TERMINAL CABINET
KAIC KILOAMPERE INTERRUPTING CURRENT	TV TELEVISION
KAR KILOAMPERE INTERRUPTING RATING	TY TYPICAL
KO KNOCK OUT	UC UNDERGROUND COMMUNICATION
KV KILOVOLT	UE UNDERGROUND ELECTRIC
KVA KILOVOLT AMPERES	UG UNDERGROUND
KW KILOWATT	UNO UNLESS NOTED OTHERWISE
KWH KILOWATT HOUR	UPS UNINTERRUPTIBLE POWER SUPPLY
LA LIGHTNING ARRESTOR	USS UNIT SUBSTATION
LAN LOCAL AREA NETWORK	UTP UNSHIELDED TWISTED PAIR
LCD LIQUID CRYSTAL DISPLAY	V VOLTS
LCP LIGHTING CONTROL PANEL	VAC VOLTS ALTERNATING CURRENT
LED LIGHT EMITTING DIODE	VDC VOLTS DIRECT CURRENT
LS LIFE SAFETY	VEND VENDING MACHINE
LTD LONG TIME DELAY	VM VOLTMETER
LTG LIGHTING	VOP VOICE OVER INTERNET PROTOCOL
LV LOW VOLTAGE	VPI VACUUM-PRESSURE IMPREGNATED
	VSD VARIABLE SPEED DRIVE
	W WATT
	WAN WIDE AREA NETWORK
	WAP WIRELESS ACCESS POINT
	WLAN WIRELESS LOCAL AREA NETWORK
	WP WEATHERPROOF
	WSA WIRE SIZING AMPS
	XFMR TRANSFORMER

GENERAL



LIGHTING



BRANCH VOLTAGE DROP

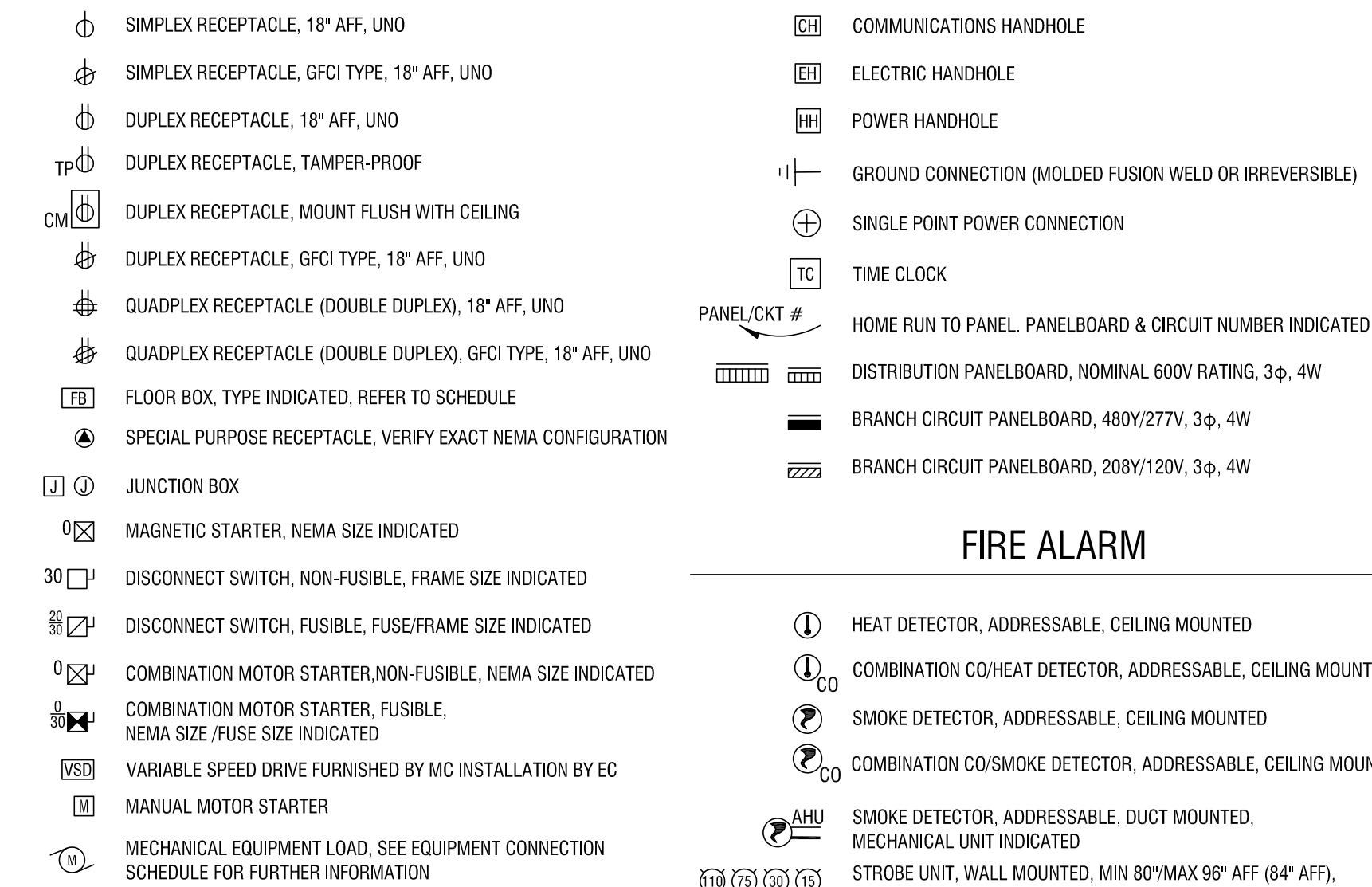
CONDUCTOR SIZE (AWG)	#12	#10	#8
MAXIMUM CONDUCTOR LENGTH AT 120V (FEET)	95	160	245
MAXIMUM CONDUCTOR LENGTH AT 208V 1 PH (FEET)	170	280	425
EQUIPMENT GROUNDING CONDUCTOR SIZE (AWG)	#12	#10	#8

NOTES:

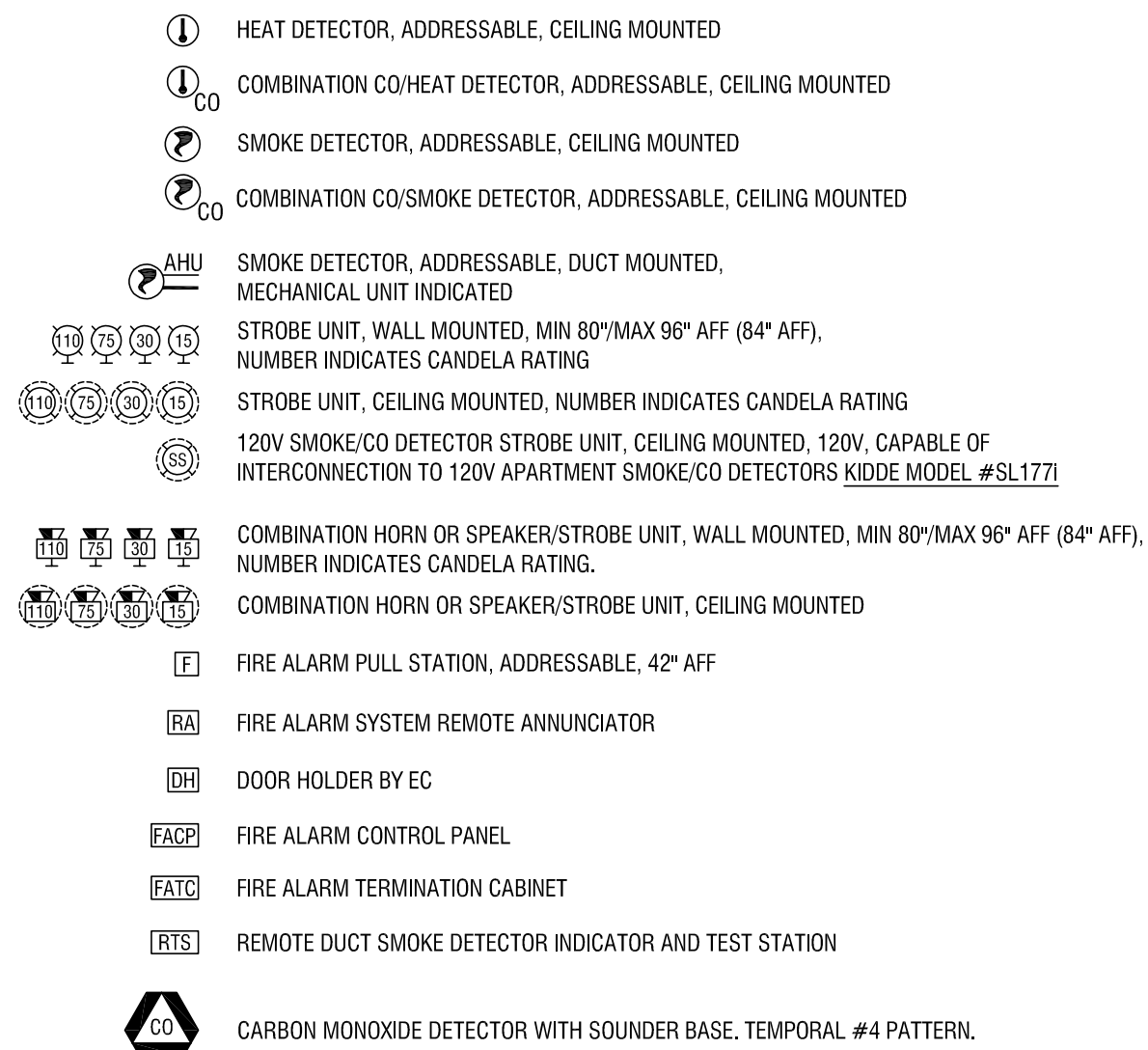
- INCREASE BRANCH CIRCUIT CONDUCTOR AS INDICATED BASED ON LENGTH OF CIRCUIT.
- BASED ON 20A CIRCUIT LOADED TO 10A USING SINGLE PHASE, 2 WIRE CIRCUITS.
- SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED ON LENGTH OF BRANCH CIRCUIT CONDUCTOR FROM PANEL TO PHYSICAL CENTER OF LOAD TO OVERCOME VOLTAGE DROP USING COPPER CONDUCTORS. MAXIMUM 3% VOLTAGE DROP ALLOWED.
- TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET. EXTEND #12 CONDUCTOR TO OUTLET.

SYMBOL LIST

POWER



FIRE ALARM



PHONE/DATA/COMMUNICATION

TELEPHONE/DATA OUTLET, 18" AFF UNLESS OTHERWISE NOTED, SYMBOL SIGNIFIES THAT E.C. SHALL SUPPLY A SINGLE-GANG ELECTRICAL BOX AND INSTALL 18" A.F.F., UNLESS OTHERWISE NOTED. SUPPLY 3/4" EMT CONDUIT AND INSTALL VERTICALLY WITHIN WALL FROM ELECTRICAL BOX STUBBING CONDUIT OUT FROM WALL INTO ACCESSIBLE CEILING SPACE. SUPPLY CONDUIT WITH PLASTIC BUSHINGS AND A PULLSTRING. ELECTRICAL BOX & CONDUIT SHALL BE UTILIZED FOR THE INSTALLATION OF COMMUNICATION CONNECTORS (IE: TELEPHONE & DATA) WITH WALLPLATE & ASSOCIATED WIRING, CONNECTORS, WALLPLATE, WIRING ETC... SHALL BE PROVIDED & INSTALLED BY OTHERS.

FLOOR BOX SCHEDULE

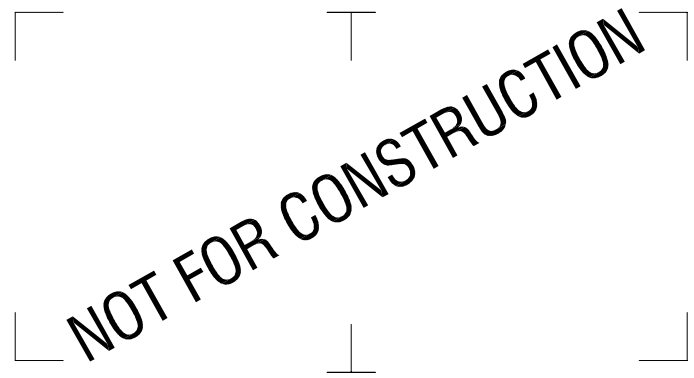
SYMBOL	DESCRIPTION	MANUFACTURER/ MODEL # FOR WALLPLATE
FB	TWO-COMPARTMENT, ADJUSTABLE, FLOOR BOX WITH ONE(1) INTEGRAL DUPLEX RECEPTACLE BRACKET ONE(1) COMMUNICATION MOUNTING PLATE TO BE INSTALLED WITHIN CONCRETE FLOOR FLUSH TO FINISHED SURFACE. VERIFY FLOOR BOX LOCATION WITH G.C. PRIOR TO INSTALLATION. SUPPLY AND INSTALL "BLANK" FLANGE ASSEMBLY. COMMUNICATION CONNECTORS AND ASSOCIATED WIRING SHALL BE SUPPLIED AND INSTALLED BY OTHERS.	LEGRAND: FLOOR BOX #FRB2-G1-FLANGE #FP-B-AL

SECURITY SYSTEM SYMBOL LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER/ MODEL #
CR	CARD READER, E.C. TO PROVIDE SINGLE-GANG ELECTRICAL BOX & INSTALL 48" A.F.F. WITH 3/4" EMT CONDUIT INSTALLED VERTICALLY, WITHIN WALL, FROM ELECTRICAL BOX STUBBING CONDUIT OUT FROM WALL IN ACCESSIBLE CEILING SPACE. PROVIDE CONDUIT WITH PLASTIC BUSHINGS AND A PULLSTRING. ELECTRICAL BOX & CONDUIT SHALL BE UTILIZED FOR OR INSTALLATION WITH ASSOCIATED LOW-VOLTAGE WIRING, CARD READER, LOW-VOLTAGE WIRING & ADDITIONAL SYSTEM DEVICES/EQUIPMENT TO BE PROVIDED AND INSTALLED BY SECURITY SYSTEM CONTRACTOR.	BY OTHERS
ES	ELECTRIC DOOR STRIKE, E.C. TO SUPPLY ES WITH A 120V POWER CONNECTION. VERIFY POWER TERMINATION REQUIREMENTS TO ES IN FIELD. ELECTRIC DOOR STRIKE, ASSOCIATED LOW-VOLTAGE WIRING & ADDITIONAL SYSTEM DEVICES/EQUIPMENT TO BE PROVIDED AND INSTALLED BY SECURITY SYSTEM CONTRACTOR.	BY OTHERS
DC	DOOR CONTACT, DOOR CONTACTOR, FOR SECURITY SYSTEM MONITORING. TO BE PROVIDED & INSTALLED BY SECURITY SYSTEM CONTRACTOR INCLUSIVE OF ALL ASSOCIATED LOW-VOLTAGE WIRING, MATERIALS/HARDWARE ETC... SHOWN ON DRAWINGS FOR REFERENCE ONLY.	BY OTHERS
REX	REQUEST FOR EXT DEVICE, E.C. TO SUPPLY AND INSTALL A SINGLE-GANG ELECTRICAL BOX WITH 3/4" EMT CONDUIT INSTALLED VERTICALLY, WITHIN WALL, FROM ELECTRICAL BOX STUBBING CONDUIT OUT FROM WALL IN ACCESSIBLE CEILING SPACE. PROVIDE CONDUIT WITH PLASTIC BUSHINGS AND A PULLSTRING. COORDINATE ELECTRICAL BOX LOCATION & INSTALLATION WITH SECURITY SYSTEM CONTRACTOR PRIOR TO ROUGH-IN. ELECTRICAL BOX AND CONDUIT SHALL BE UTILIZED FOR EXT DEVICE. INSTALLATION WITH ASSOCIATED LOW-VOLTAGE WIRING, REQUEST FOR EXT DEVICE, LOW-VOLTAGE WIRING & ADDITIONAL SYSTEM DEVICES/EQUIPMENT TO BE PROVIDED AND INSTALLED BY SECURITY SYSTEM CONTRACTOR.	BY OTHERS



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BANK ON BUFFALO



NEW COMMUNITY BRANCH - NIAGARA FALLS

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2181539

DRAWN BY: BTM

REVIEWED BY: DMR

ISSUED FOR: BID SET

DATE: 25 JAN 2019

DRAWING NAME:

SYMBOLS, NOTES & ABBREVIATIONS ELECTRICAL

DRAWING NUMBER:

E-001

NOT FOR CONSTRUCTION

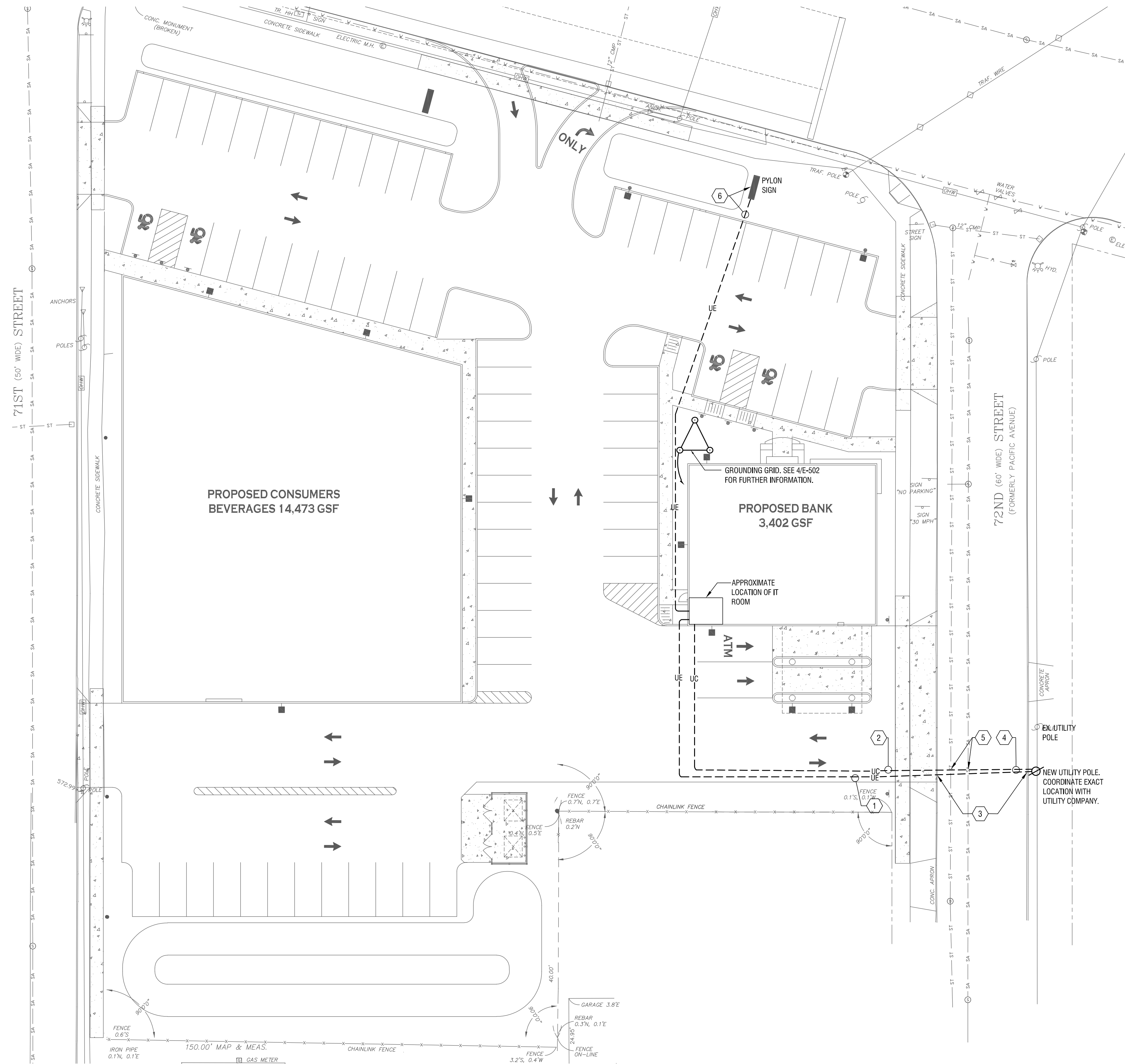
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**GENERAL NOTES:**

- A. SITE TRENCHING AND BACK FILL FOR ALL ELECTRICAL CONDUIT INSTALLATIONS SHALL BE BY THE ELECTRICAL CONTRACTOR. E.C. MUST COORDINATE ALL CONDUIT LOCATIONS WITH CIVIL CONTRACTOR & LOCAL POWER COMPANY PRIOR TO ANY WORK.
- B. COORDINATE ALL CONDUIT PENETRATIONS THROUGH FOUNDATION WALLS WITH GENERAL CONTRACTOR. ALL CONDUIT PENETRATION TO BE ABOVE FOUNDATION FOOTER. PROVIDE CONDUIT SLEEVES & SEAL PENETRATIONS AS REQUIRED TO OBTAIN A 100% COMPLETE INSTALLATION.
- C. E.C. SHALL VERIFY ELECTRIC, TELEPHONE AND CABLE TELEVISION SERVICE AVAILABILITY AND D-MARK LOCATIONS WITH LOCAL UTILITY PROVIDERS PRIOR TO BID SUBMISSION.

**KEYED NOTES:**

- 1 PROPOSED UNDERGROUND SECONDARY ELECTRIC SERVICE CONDUIT RUNS INSTALLED A MINIMUM OF 36" BELOW FINISHED GRADE. COORDINATE INSTALLATIONS WITH LOCAL POWER COMPANY AND CIVIL CONTRACTOR. SEE ELECTRICAL ONE-LINE DIAGRAM FOR FURTHER INFORMATION.
- 2 TWO (2) 4" PVC SCH. 80 CONDUITS WITH PULL STRING INSTALLED FROM PHONE / CABLE TELEVISION UTILITY D-MARK POINTS TO BUILDING ELECTRICAL ROOM. ONE CONDUIT SHALL SUPPLY BUILDING WITH TELEPHONE/DATA SERVICE WIRING & THE REMAINING CONDUIT SHALL SUPPLY BUILDING WITH CABLE TELEVISION SERVICE WIRING. CONTINUATION TO UTILITY D-MARKS SHALL BE COORDINATE WITH CIVIL CONTRACTOR AND LOCAL UTILITY PROVIDERS.
- 3 SAW CUT EXISTING STREET TO ACCOMMODATE CONDUIT INSTALLATION. PATCH ROADWAY TO MATCH EXISTING FINISH.
- 4 PROVIDE CONCRETE ENCASED SCHEDULE 40 CONDUIT UNDER EXISTING STREET.
- 5 HAND EXCAVATE AROUND EXISTING SANITARY.
- 6 2#8, 1#86ND IN 1" PVC SCHEDULE 80 CONDUIT. INSTALLED A MINIMAL OF 36" BELOW GRADE. DETERMINE CONDUIT ROUTING TO DESIGNATED SIGN IN FIELD. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH SIGN MANUFACTURER PRIOR TO INSTALLATION.



**1 SITE PLAN - ELECTRICAL**  
E-050 SCALE: 1" = 20'-0"

**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 2181539

DRAWN BY: BTM

REVIEWED BY: DMR

ISSUED FOR: BID SET

DATE: 25 JAN 2019

DRAWING NAME:

**SITE PLAN - ELECTRICAL**

DRAWING NUMBER:

**E-050**

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**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

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Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
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PROJECT NUMBER: 2181539

DRAWN BY: BTM

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DATE: 25 JAN 2019

DRAWING NAME:

**FLOOR PLAN - POWER & SYSTEMS**

DRAWING NUMBER:

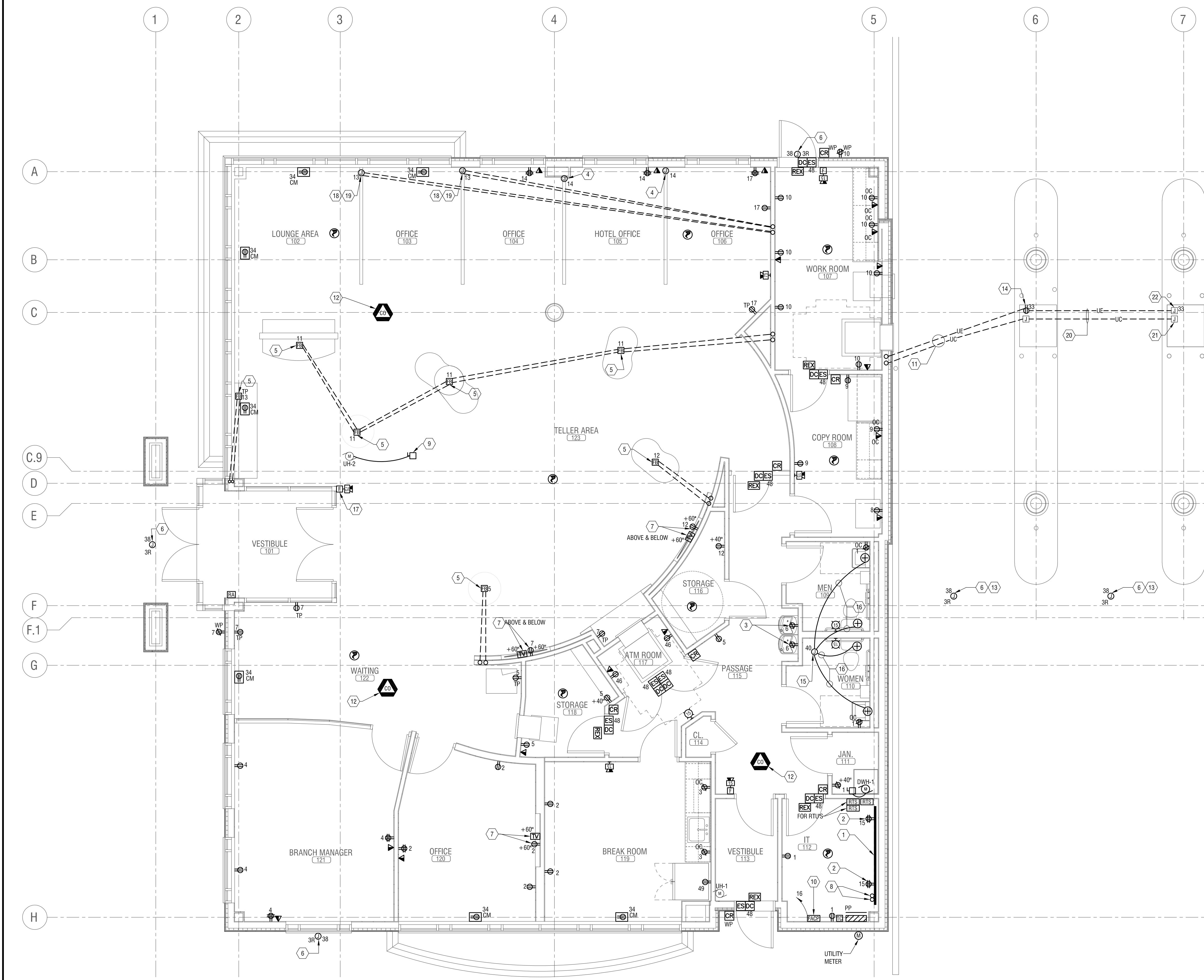
**E-101**

**GENERAL NOTES:**

- A. WIRING NOT SHOWN FOR CLARITY.
- B. CIRCUIT ALL ELECTRICAL DEVICES TO PANEL "PP" UNLESS SHOWN OTHERWISE.
- C. WIRING SHALL BE PROVIDED TO DEVICES SHOWN, UNLESS OTHERWISE INDICATED. MINIMUM WIRING SIZE SHALL BE #12 AWG. AMPACITY, DERATING AND CONDUIT FILL SHALL BE AS REQUIRED BY THE NEC.
- D. MULTIPLE GROUPINGS OF DEVICES SHALL BE GANGED UNDER THE SAME COVERPLATE. SEPARATE PLATES ARE UNACCEPTABLE EXCEPT IN CASES OF DIMMER SWITCHES ADJACENT TO OTHER LIGHT SWITCHES. IN THAT CASE, PLATES SHALL BE AS CLOSE TOGETHER AS POSSIBLE, PLUMB TRUE FOR A NEAT AND COMPACT ORGANIZED APPEARANCE.
- E. SEE ARCHITECTURAL ELEVATIONS AND DETAILS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.
- F. ENSURE ALL CARBON MONOXIDE DETECTORS ARE PLACED WITHIN 3'-0" OF THE FIRST SUPPLY DIFFUSER.

**KEYED NOTES:**

- 1 SUPPLY 4'x8'x1/2" SHEET OF FIRE RATED PLYWOOD AND INSTALL HORIZONTALLY ON WALL ±30" A.F.F. TO BOTTOM OF SHEET. PLYWOOD SHALL BE UTILIZED TO HOUSE COMMUNICATION/SECURITY DISTRIBUTION EQUIPMENT. VERIFY PLYWOOD LOCATION WITH OWNER/G.C. PRIOR TO INSTALLATION. COORDINATE COMMUNICATION SERVICE CONDUIT INSTALLATION WITH LOCAL PROVIDER. COMMUNICATION WIRING, DISTRIBUTION EQUIPMENT AND MISC. DEVICES SHALL BE SUPPLIED AND INSTALLED BY OTHER.
- 2 MOUNT QUAD RECEPTACLE ON PLYWOOD BACKBOARD ±42" A.F.F.
- 3 SUPPLY GFI RECEPTACLE FOR DRINKING FOUNTAIN. VERIFY ELECTRICAL CONNECTION & LOCATION WITH P.C. PRIOR TO ELECTRICAL ROUGH-IN.
- 4 WORKSTATIONS SHALL BE SUPPLIED AND INSTALLED BY OTHERS. E.C. SHALL SUPPLY DUPLEX RECEPTACLES AND INSTALL WITHIN FURNITURE PARTITION BASES AND CIRCUIT AS SHOWN ON DRAWING. BRANCH WIRING SHALL BE FED FROM NEAREST WALL/COLUMN. FIELD VERIFY REQUIRED WORK WITH OWNER/G.C. SUPPLY ALL NECESSARY HARDWARE, MATERIALS ECT... TO OBTAIN A 100% COMPLETE ELECTRICAL INSTALLATION. TELEPHONE/DATA CONNECTORS FOR WORKSTATIONS SHALL BE SUPPLIED AND INSTALLED BY OTHERS, SHOWN ON DRAWING FOR REFERENCE ONLY.
- 5 SUPPLY FLOOR BOX WITH TWO (2) 1" PVC SCH. 40 CONDUITS ROUTED BELOW CONCRETE FLOOR FROM NEAREST FULL HEIGHT WALL. E.C. SHALL DETERMINE CONDUIT ROUTING IN FIELD IN COORDINATION WITH G.C. ONE (1) CONDUIT SHALL BE UTILIZED FOR POWER CONDUCTORS AND THE REMAINING CONDUIT SHALL BE UTILIZED FOR TELEPHONE/DATA WIRING. SUPPLY CONDUIT WITH PLASTIC BUSHINGS AND PULLSTRINGS. COMMUNICATIONS WIRING SHALL BE SUPPLIED AND INSTALLED BY OTHERS. COORDINATE EXACT LOCATION WITH OWNERS FURNITURE VENDOR PRIOR TO ROUGH-IN.
- 6 PROVIDE 2#12, 1#12GND IN 1/2" C WITHIN CANOPY STRUCTURE TO FLUSH MOUNT JUNCTION BOX FOR EXTERIOR SIGNAGE. COORDINATE EXACT ELECTRICAL REQUIREMENTS & LOCATION WITH G.C. PRIOR TO INSTALLATION.
- 7 COORDINATE EXACT LOCATION AND HEIGHT OF TELEVISION OUTLET WITH OWNER AND G.C. PRIOR TO INSTALLATION.
- 8 TWO (2) PVC SCH. 80 CONDUITS INSTALLED A MINIMAL OF 36" BELOW FINISHED GRADE FROM UTILITY POLE TO ELECTRICAL ROOM. STUB CONDUITS UP WITHIN ROOM APPROXIMATELY 8'A.F.F. ONE CONDUIT SHALL SUPPLY BUILDING WITH DATA/TELEPHONE SERVICE WIRING & THE REMAINING CONDUIT SHALL SUPPLY BUILDING WITH CABLE TELEVISION SERVICE WIRING. COORDINATE CONDUIT INSTALLATIONS WITH CIVIL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. SEE ELECTRICAL SITE PLAN FOR CONTINUATION.
- 9 INSTALL DISCONNECT ABOVE CEILING CLOUD & WITHIN SITE OF UNIT HEATER (UH-2). DISCONNECT SHALL NOT BE VISIBLE FROM TELLER FLOOR ONCE INSTALLED. VERIFY EXACT LOCATION WITH G.C. PRIOR TO INSTALLATION.
- 10 FEED FIRE ALARM CONTROL PANEL (FACP) FROM A SINGLE-POLE, 20A C.B. SUPPLY TRIP FREE HANDLE LOCK DEVICE ON C.B. VERIFY POWER TERMINATION REQUIREMENTS TO FACP IN FIELD. SUPPLY FACP WITH TWO (2) DEDICATED "OUTSIDE" TELEPHONE CONNECTIONS FOR SYSTEM MONITORING. COORDINATE TELEPHONE CONNECTION REQUIREMENTS WITH LOCAL FIRE MARSHAL.
- 11 SUPPLY DRIVE-THRU ATM WITH TWO (2) 1" PVC SCH. 80 CONDUITS ROUTED 36" BELOW GRADE FROM NEAREST EXTERIOR WALL. E.C. SHALL DETERMINE CONDUIT ROUTING IN FIELD IN COORDINATION WITH CIVIL CONTRACTOR. ONE (1) CONDUIT SHALL BE UTILIZED FOR POWER CONDUCTORS AND THE REMAINING CONDUIT SHALL BE UTILIZED FOR COMMUNICATION/DATA WIRING. SUPPLY CONDUITS WITH PLASTIC BUSHINGS AND PULLSTRINGS. COMMUNICATIONS WIRING SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
- 12 INSTALL CARBON MONOXIDE SENSOR WITHIN 3' OF ROOF TOP UNITS FIRST SUPPLY DIFFUSER.
- 13 PROVIDE 1" EMPTY CONDUIT WITH PULL STRING FOR DRIVE-THRU SIGNAGE CONTROL WIRING.
- 14 INSTALL ATM RECEPTACLE IN ENCLOSURE. VERIFY EXACT LOCATION WITH ATM SPECIFICATIONS PRIOR TO INSTALLATION.
- 15 PROVIDE NEMA 1 ENCLOSURE ABOVE ACCESSIBLE CEILING FOR FAUCET VOLTAGE CONVERTER. VERIFY EXACT SIZE WITH PLUMBING CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLATION.
- 16 PROVIDE WIRING FROM CONVERTER TO FLUSH VALVE/FAUCET. COORDINATE EXACT WIRING REQUIREMENTS WITH MANUFACTURERS SPECIFICATIONS.
- 17 INSTALL FIRE ALARM DEVICES ON MULLION & ROUTE CONDUIT AND WIRING WITHIN STOREFRONT FRAMING. COORDINATE EXACT LOCATION WITH G.C.
- 18 SUPPLY JUNCTION BOX WITH TWO (2) 1" PVC SCH. 40 CONDUITS ROUTED BELOW CONCRETE FLOOR FROM NEAREST FULL HEIGHT WALL. E.C. SHALL DETERMINE CONDUIT ROUTING IN FIELD IN COORDINATION WITH G.C. ONE (1) CONDUIT SHALL BE UTILIZED FOR POWER CONDUCTORS AND THE REMAINING CONDUIT SHALL BE UTILIZED FOR TELEPHONE/DATA WIRING. SUPPLY CONDUIT WITH PLASTIC BUSHINGS AND PULLSTRINGS. COMMUNICATIONS WIRING SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
- 19 4" SQUARE, DUAL COMPARTMENT FLUSH MOUNT JUNCTION BOX. SUITABLE FOR INSTALLATION IN CONCRETE.
- 20 SUPPLY FUTURE DRIVE-THRU ATM WITH TWO (2) 1" PVC SCH. 80 CONDUITS ROUTED 36" BELOW GRADE FROM NEAREST EXTERIOR WALL. E.C. SHALL DETERMINE CONDUIT ROUTING IN FIELD IN COORDINATION WITH CIVIL CONTRACTOR. ONE (1) CONDUIT SHALL BE UTILIZED FOR POWER CONDUCTORS AND THE REMAINING CONDUIT SHALL BE UTILIZED FOR COMMUNICATION/DATA WIRING. SUPPLY CONDUITS WITH PLASTIC BUSHINGS AND PULLSTRINGS. COMMUNICATIONS WIRING SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
- 21 PROVIDE 4" SQUARE WEATHER PROOF BACKBOX. FLUSH WITH CONCRETE, FOR FUTURE ATM MACHINE COMMUNICATIONS WIRING. PROVIDE WEATHER PROOF COVER AND PERMANENTLY LABEL "DATA/COMMUNICATION". COORDINATE EXACT LOCATION WITH ATM SPECIFICATIONS PRIOR TO INSTALLATION.
- 22 PROVIDE 4" SQUARE WEATHER PROOF BACKBOX. FLUSH WITH CONCRETE, FOR FUTURE ATM MACHINE POWER. PROVIDE WEATHER PROOF COVER AND PERMANENTLY LABEL "POWER". PROVIDE AN EXTRA 12" OF POWER WIRING NEATLY COILED IN BOX. COORDINATE EXACT LOCATION WITH ATM SPECIFICATIONS PRIOR TO INSTALLATION.



**1 FLOOR PLAN - POWER & SYSTEMS**  
E-101 SCALE: 1/4" = 1'-0"

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**GENERAL NOTES:**

- A. WIRING NOT SHOWN FOR CLARITY.
- B. CIRCUIT ALL ELECTRICAL DEVICES TO PANEL 'PP' UNLESS SHOWN OTHERWISE.
- C. WIRING SHALL BE PROVIDED TO DEVICES SHOWN, UNLESS OTHERWISE INDICATED. MINIMUM WIRING SIZE SHALL BE #12 AWG. AMPACITY, DERATING AND CONDUIT FILL SHALL BE AS REQUIRED BY THE NEC.
- D. MULTIPLE GROUPINGS OF DEVICES SHALL BE GANGED UNDER THE SAME COVERPLATE. SEPARATE PLATES ARE UNACCEPTABLE EXCEPT IN CASES OF DIMMER SWITCHES ADJACENT TO OTHER LIGHT SWITCHES. IN THAT CASE, PLATES SHALL BE AS CLOSE TOGETHER AS POSSIBLE, PLUMB TRUE FOR A NEAT AND COMPACT ORGANIZED APPEARANCE.
- E. SEE ARCHITECTURAL ELEVATIONS AND DETAILS FOR EXACT LOCATIONS OF ELECTRICAL ITEMS. THESE SHALL TAKE PRECEDENCE OVER ANY INDICATIONS IN ELECTRICAL CONSTRUCTION DOCUMENTS.
- F. ENSURE ALL CARBON MONOXIDE DETECTORS ARE PLACED WITHIN 3'-0" OF THE FIRST SUPPLY DIFFUSER.

**KEYED NOTES:**

- ① PROVIDE AND INSTALL A DUCT SMOKE DETECTOR WITHIN THE RETURN AIR DUCT OF THE UNIT. WIRE DUCT SMOKE DETECTOR INTO BUILDING FIRE ALARM SYSTEM TO SHUT-DOWN UNIT UPON FIRE ALARM ACTIVATION. PROVIDE REMOTE TEST STATION AND LOCATE AS REQUIRED. PROVIDE ALL REQUIRED HARDWARE, MATERIALS & PROGRAMMING OF DUCT SMOKE DETECTOR TO OBTAIN A 100% COMPLETE INSTALLATION. COORDINATE DUCT SMOKE DETECTOR LOCATIONS WITH M.C.

**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2181539

DRAWN BY: BTM

REVIEWED BY: DMR

ISSUED FOR: BID SET

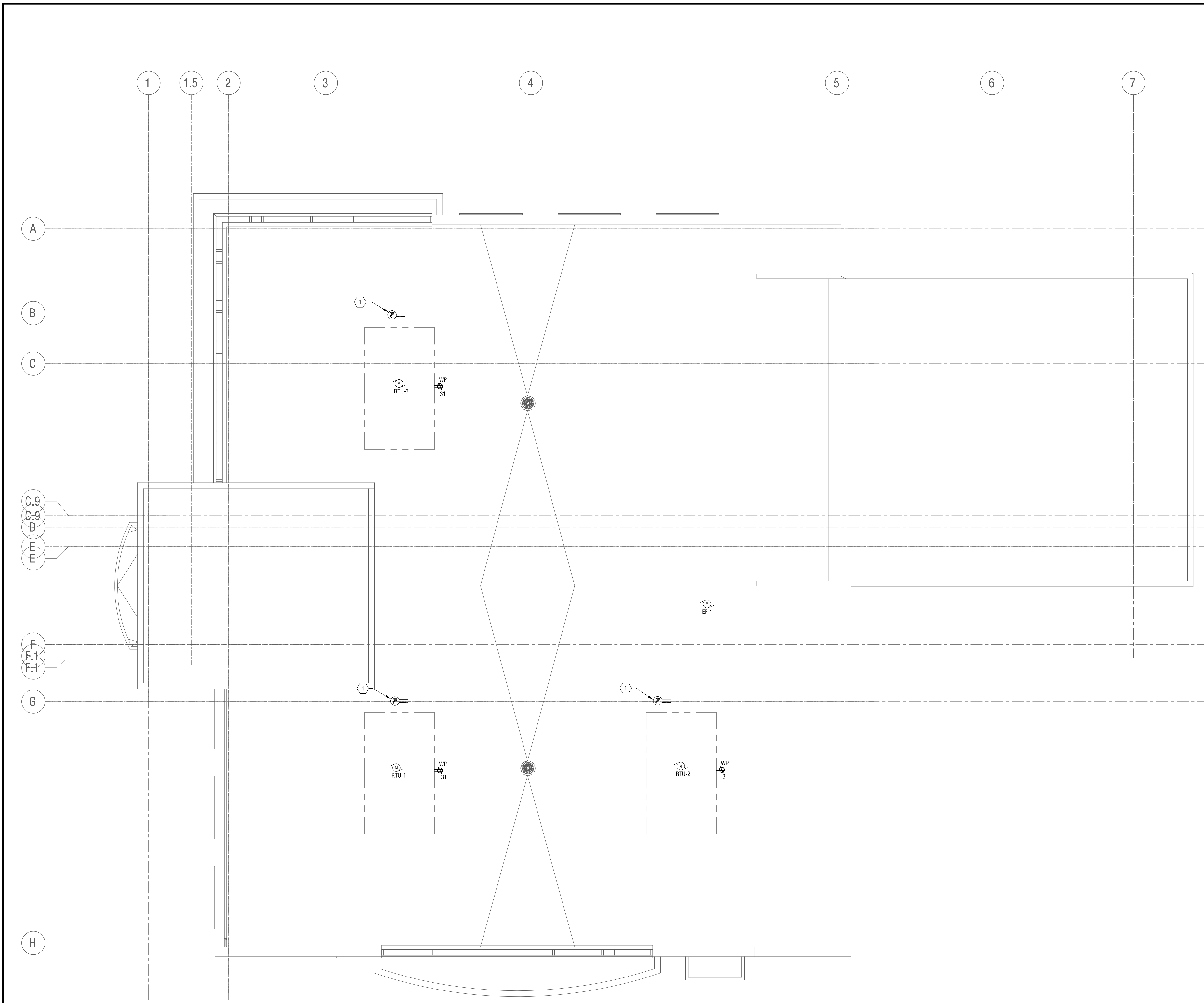
DATE: 25 JAN 2018

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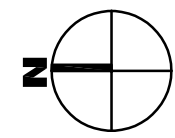
**ROOF PLAN - ELECTRICAL**

DRAWING NUMBER:

**E-102**



**1** ROOF PLAN - ELECTRICAL  
E-102 SCALE: 1/4" = 1'-0"



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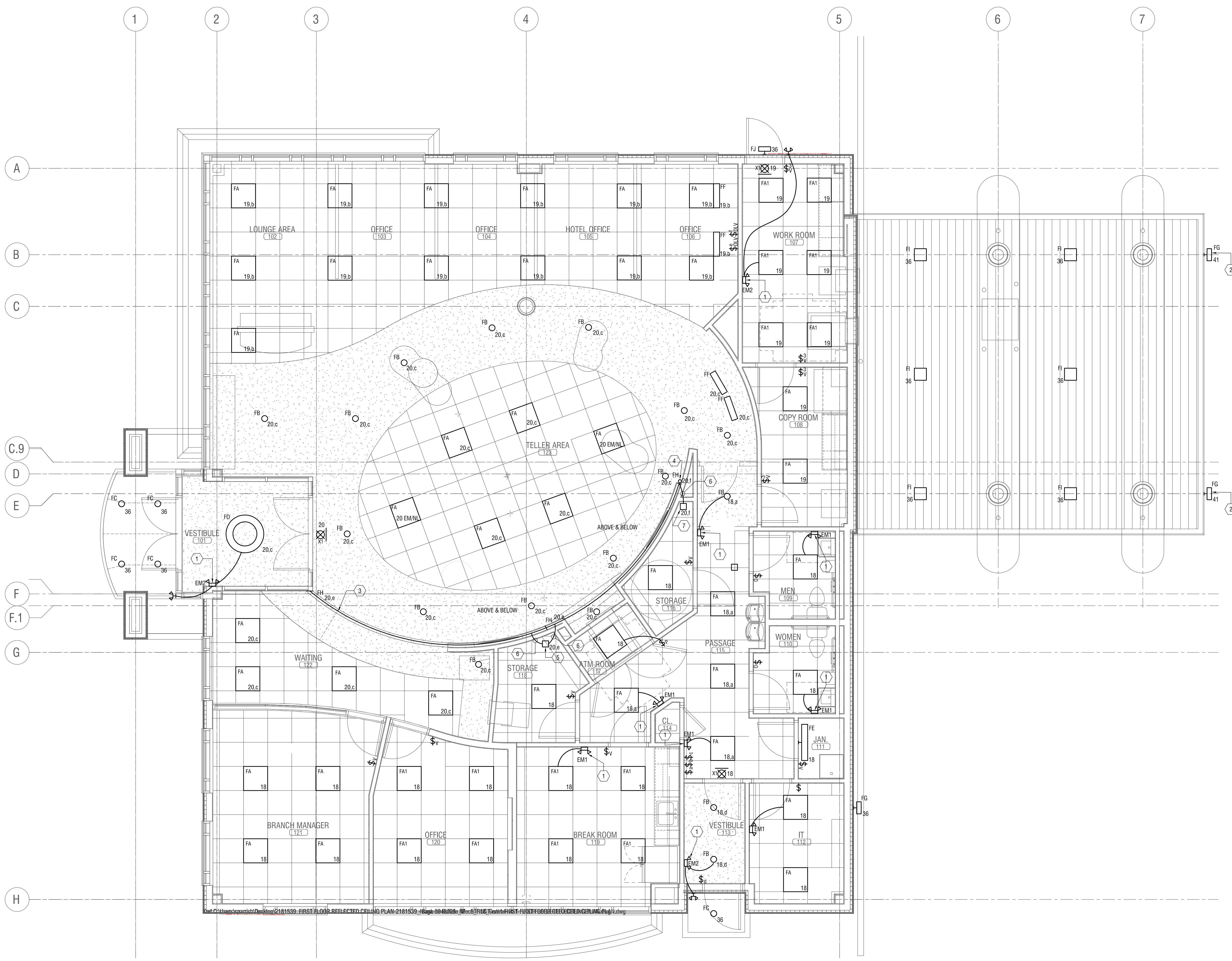
**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

**GENERAL NOTES:**

- A. WIRING NOT SHOWN FOR CLARITY.
- B. CIRCUIT ALL LIGHTING TO PANEL "PP" UNLESS SHOWN OTHERWISE.
- C. IF NO LIGHTING CONTROL IS INDICATED ON LUMINAIRE(S), LIGHTING IN ROOM SHALL BE CONTROLLED BY THE LOCAL SWITCHING.
- D. ALL EMERGENCY LIGHTING UNITS AND EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING THE AREA.
- E. VERIFY ALL HEIGHTS OF PENDANT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

**KEYED NOTES:**

- 1. CIRCUIT EMERGENCY WALL PACK AHEAD OF LOCAL SWITCHING.
- 2. INSTALL LUMINAIRE ON SIDE OF CANOPY. PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR 100% COMPLETE INSTALLATION.
- 3. INSTALL LED TAPE LIGHT IN COVE. COORDINATE EXACT LENGTH & LOCATION WITH G.C. PRIOR TO INSTALLATION. CUSTOM CUT COVE LIGHTING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY MOUNTING HARDWARE & ACCESSORIES FOR 100% COMPLETE INSTALLATION.
- 4. INSTALL LED TAPE LIGHT VERTICALLY TO ILLUMINATE SIDE WALL. COORDINATE EXACT LENGTH & LOCATION WITH G.C. PRIOR TO INSTALLATION. CUSTOM CUT TAPE LIGHTING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY MOUNTING HARDWARE & ACCESSORIES FOR 100% COMPLETE INSTALLATION.
- 5. INSTALL 200W LED DRIVER ABOVE DROP CEILING. DRIVER SHALL CONTROL BOTH SECTIONS OF LED. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES FOR A 100% COMPLETE INSTALLATION.
- 6. PROVIDE LOW VOLTAGE WIRING PER MANUFACTURER'S SPECIFICATIONS.
- 7. INSTALL 60W LED DRIVER ABOVE DROP CEILING. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES FOR A 100% COMPLETE INSTALLATION.
- 8. CIRCUIT EXTERIOR LUMINARIES THROUGH TIME CLOCK. SEE 1/E-502 FOR FURTHER DETAILS.



**1 FLOOR PLAN - LIGHTING**  
E-201 SCALE: 1/4" = 1'-0"

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Revisions		

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**FLOOR PLAN - LIGHTING**

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Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
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PROJECT NUMBER: **2181539**

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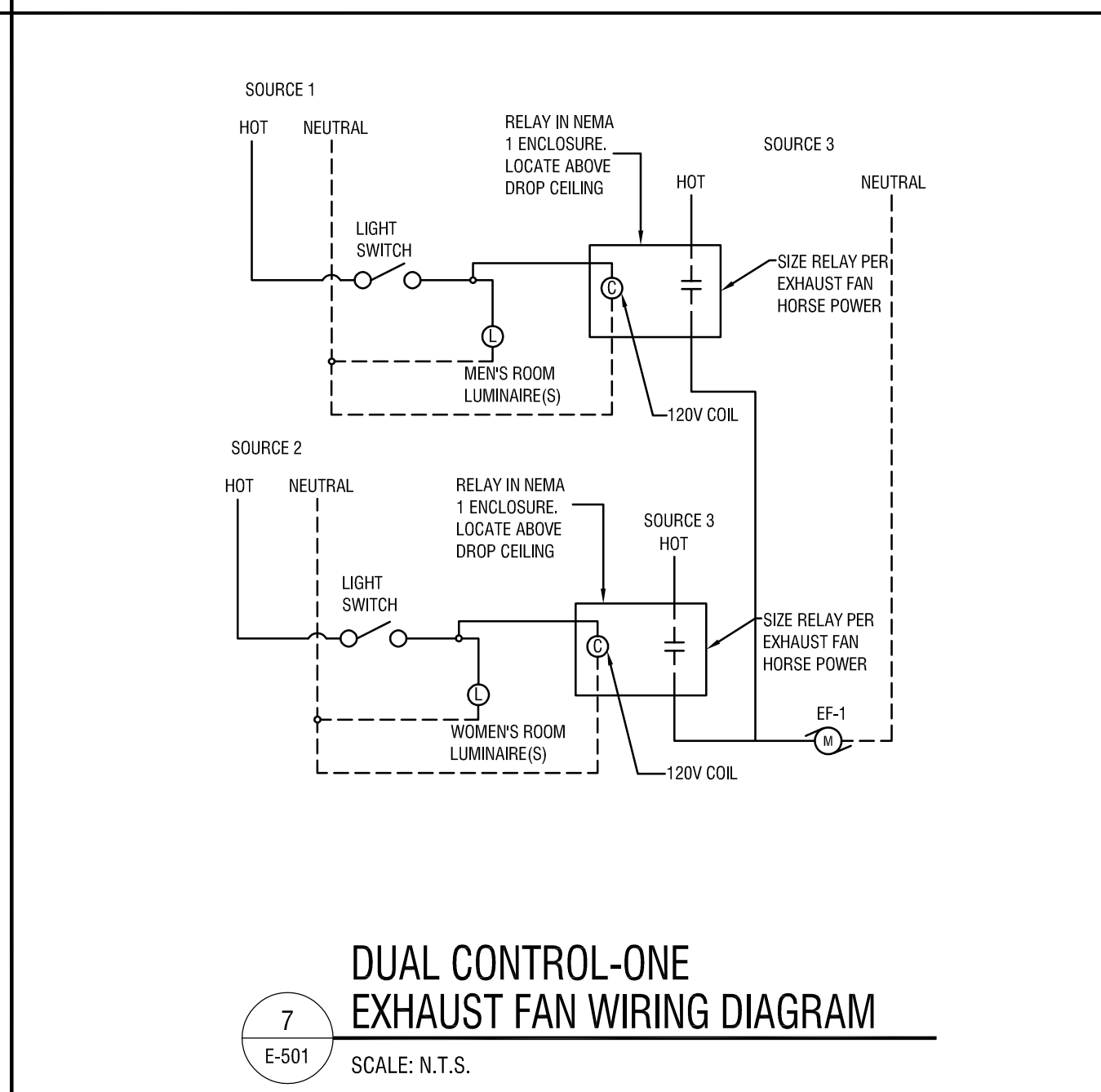
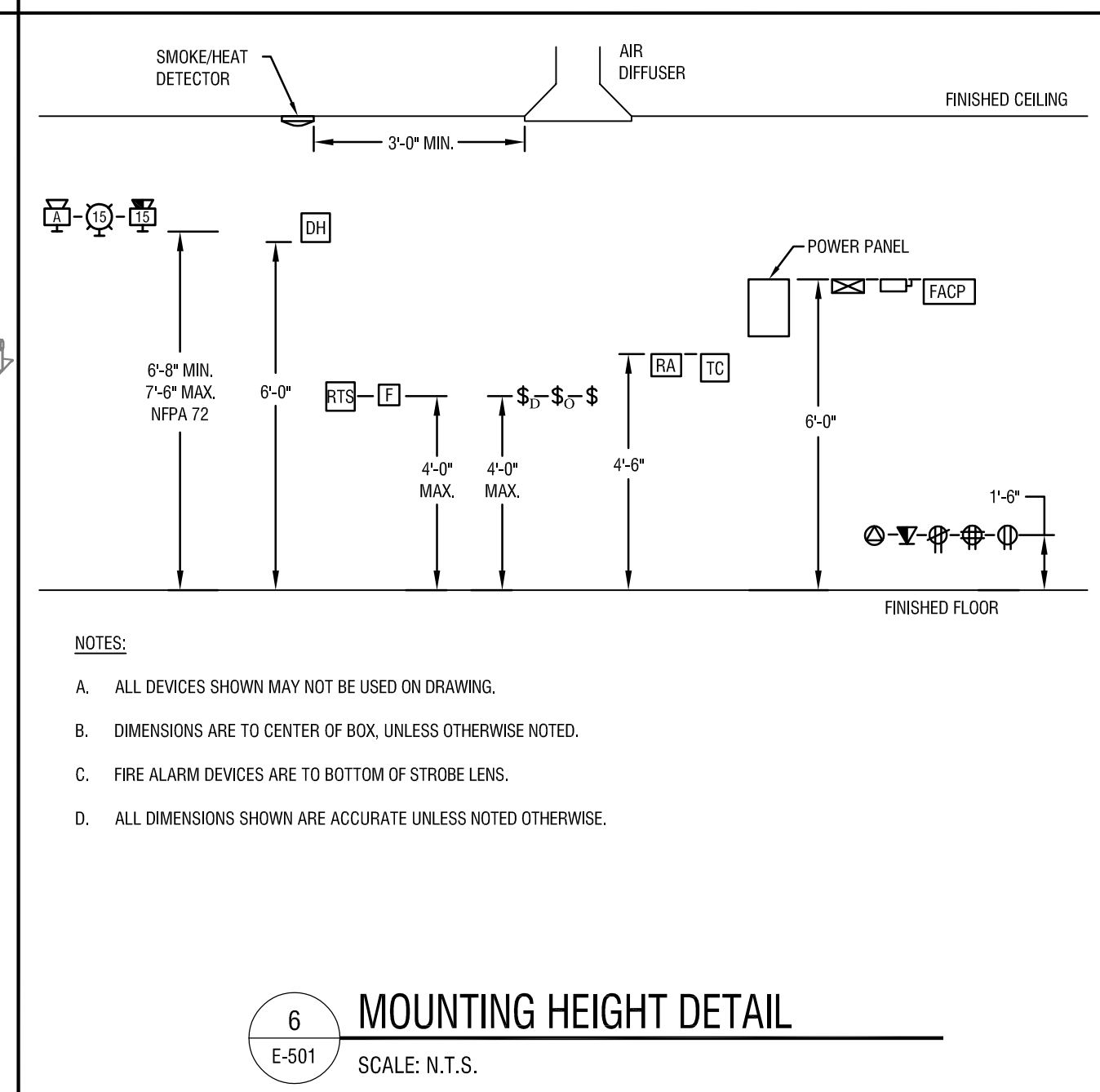
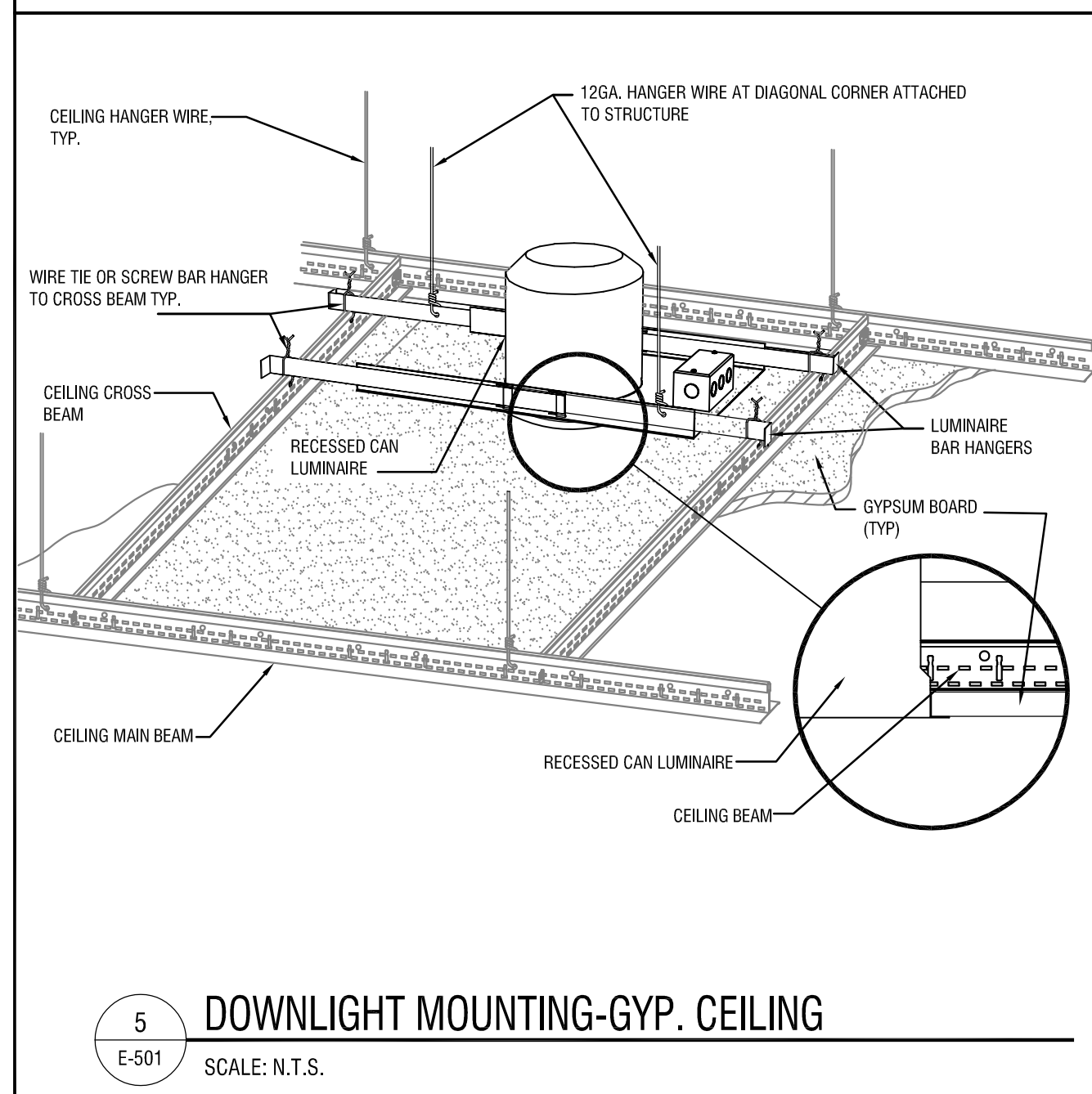
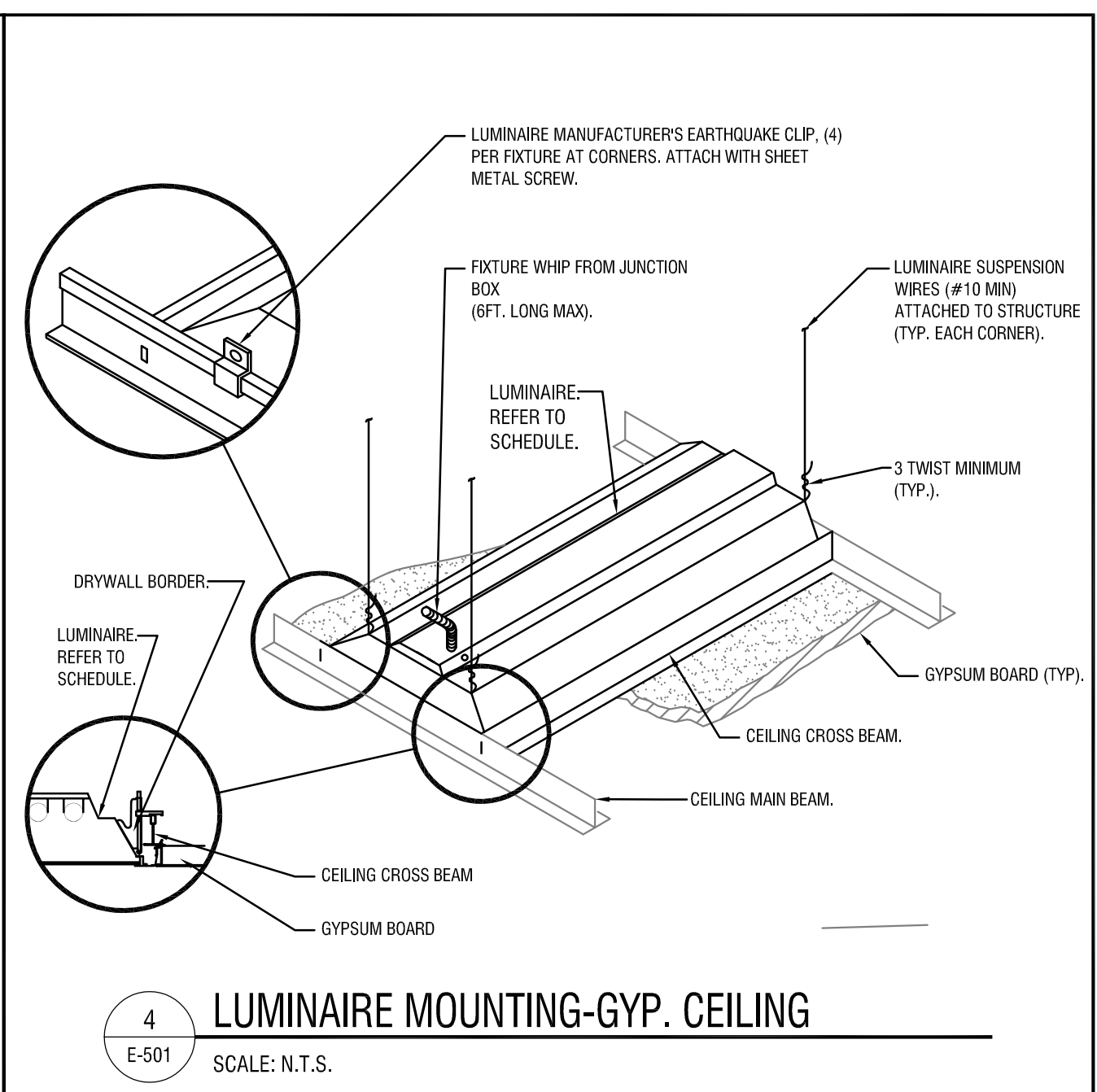
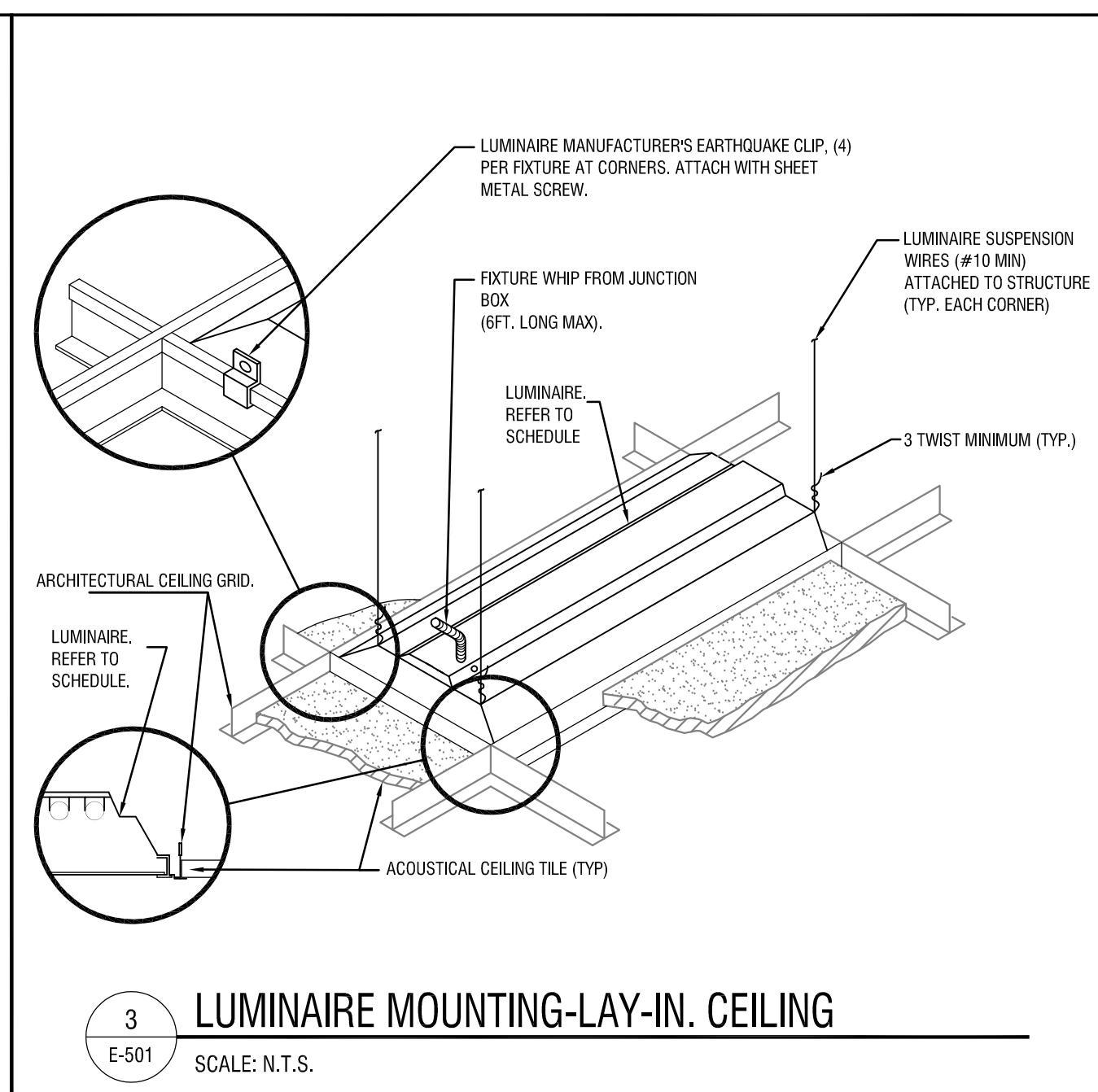
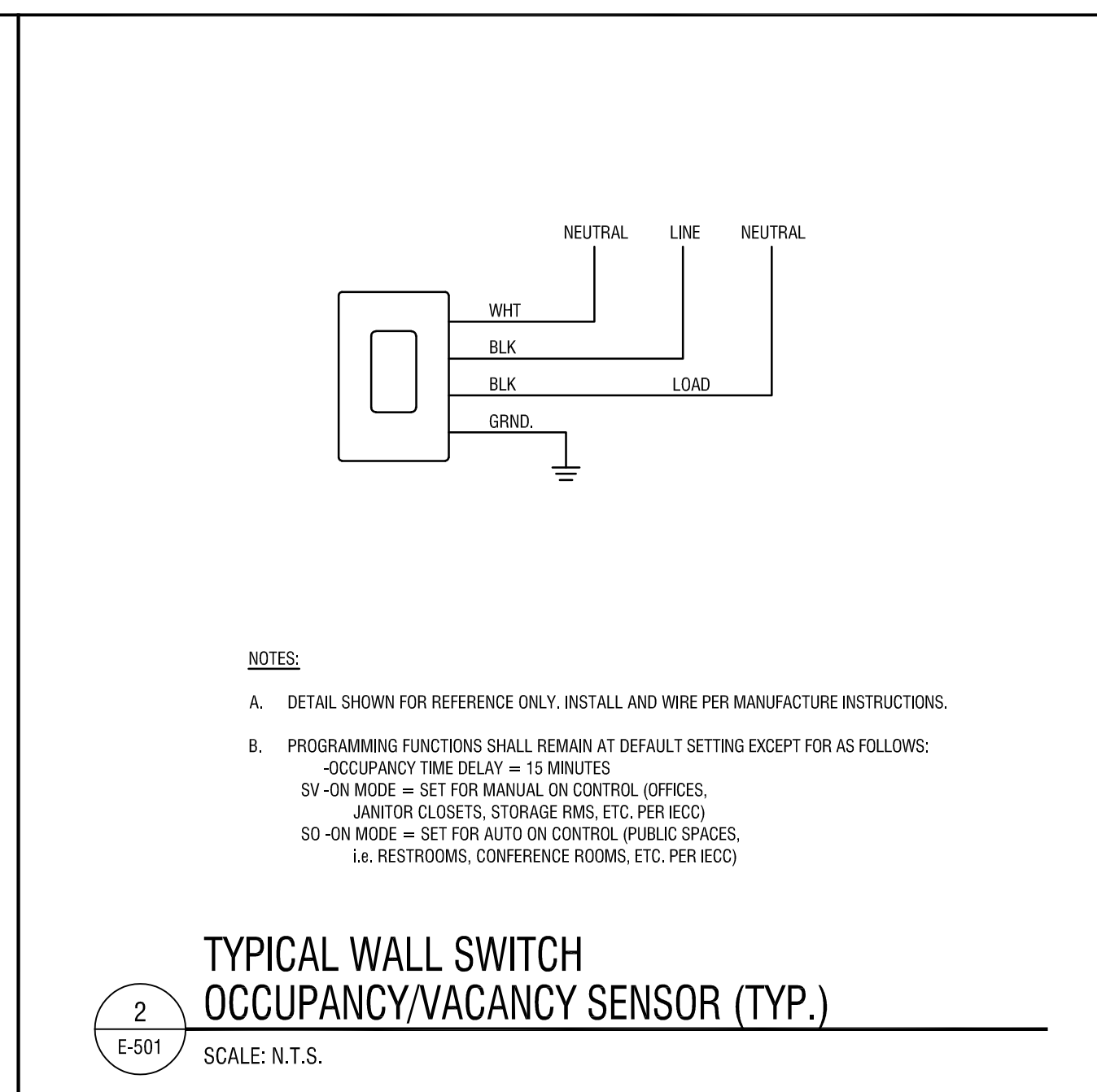
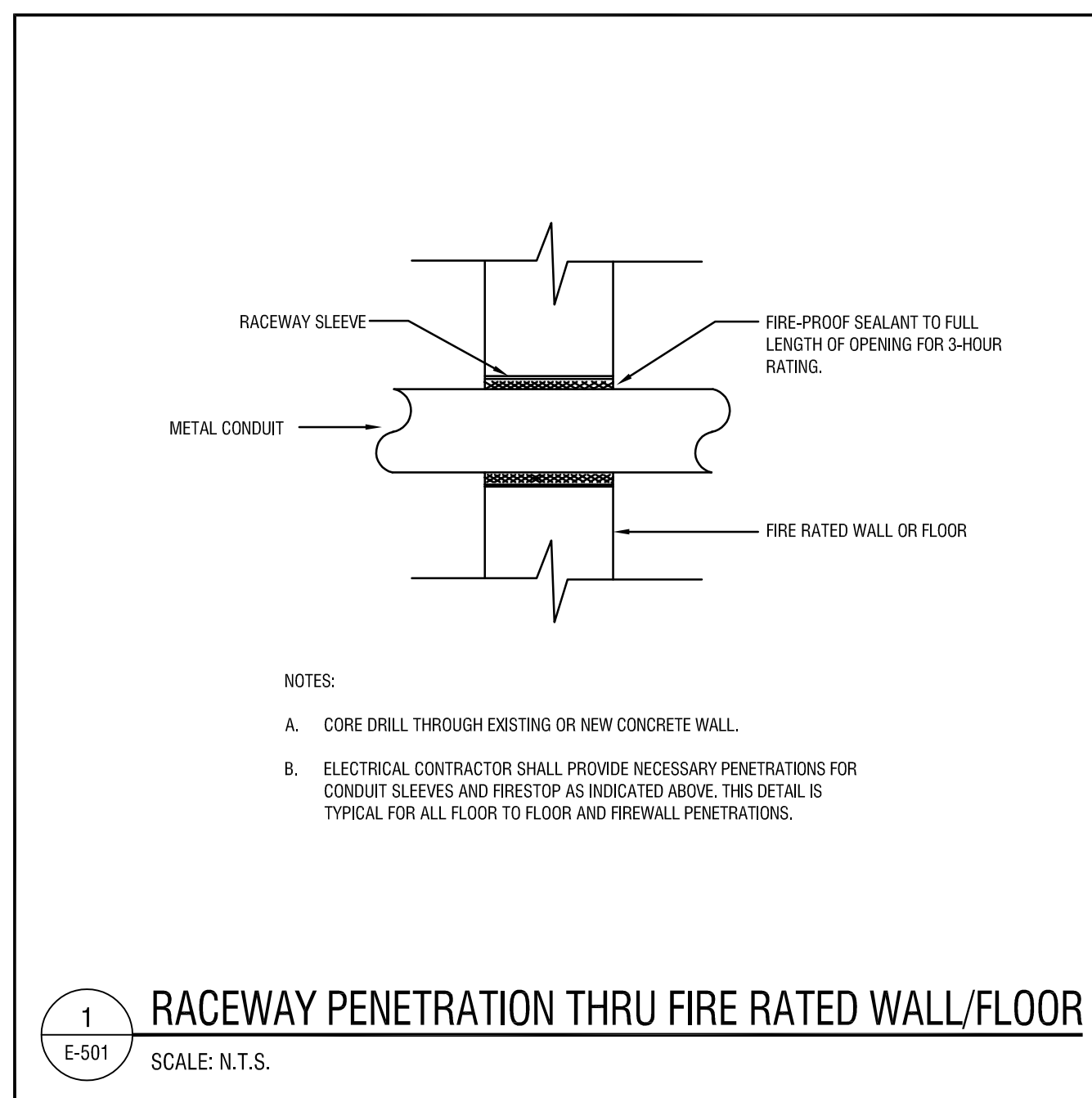
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**ELECTRICAL  
DETAILS**

DRAWING NUMBER:

**E-501**





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PROJECT NUMBER: **2181539**

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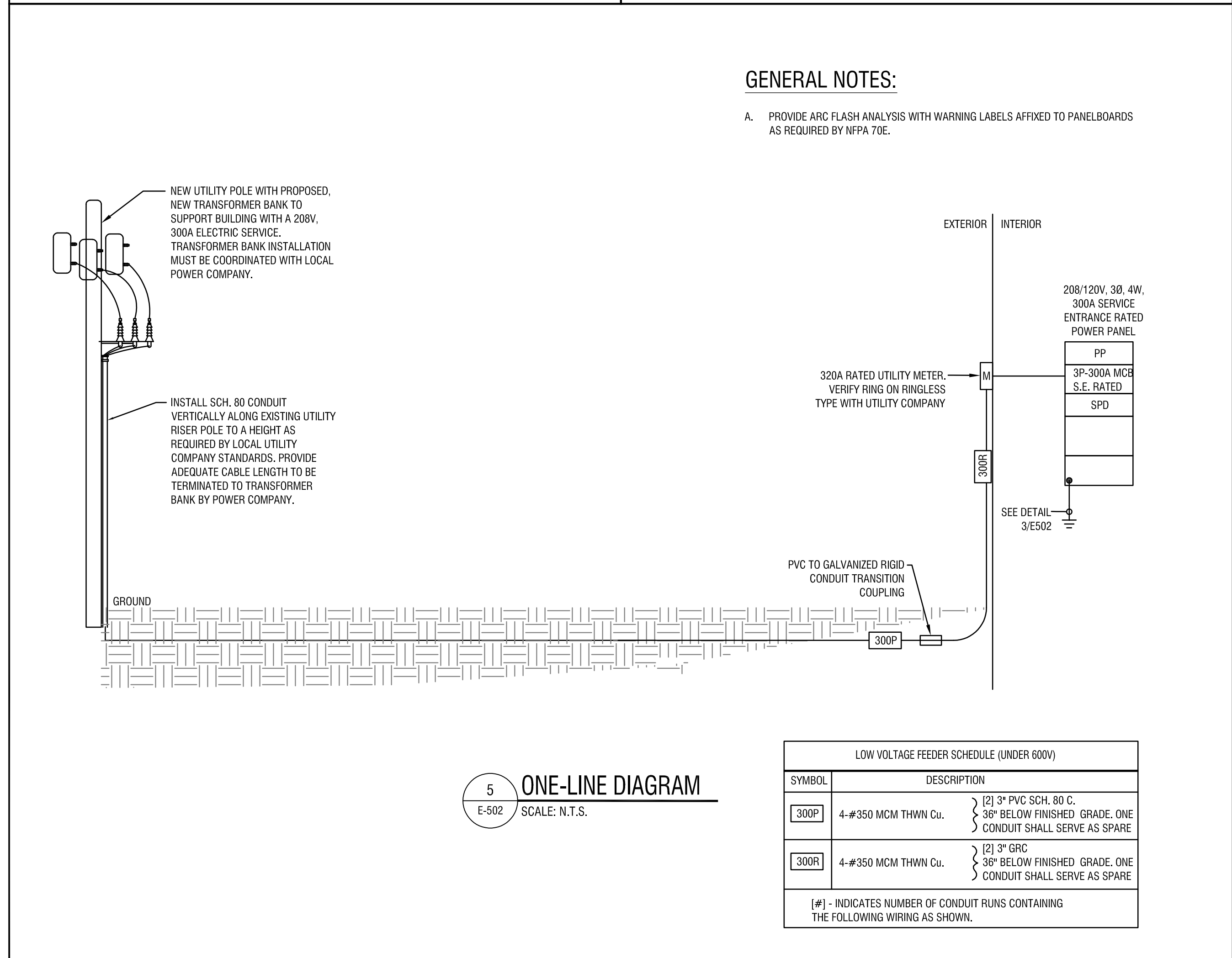
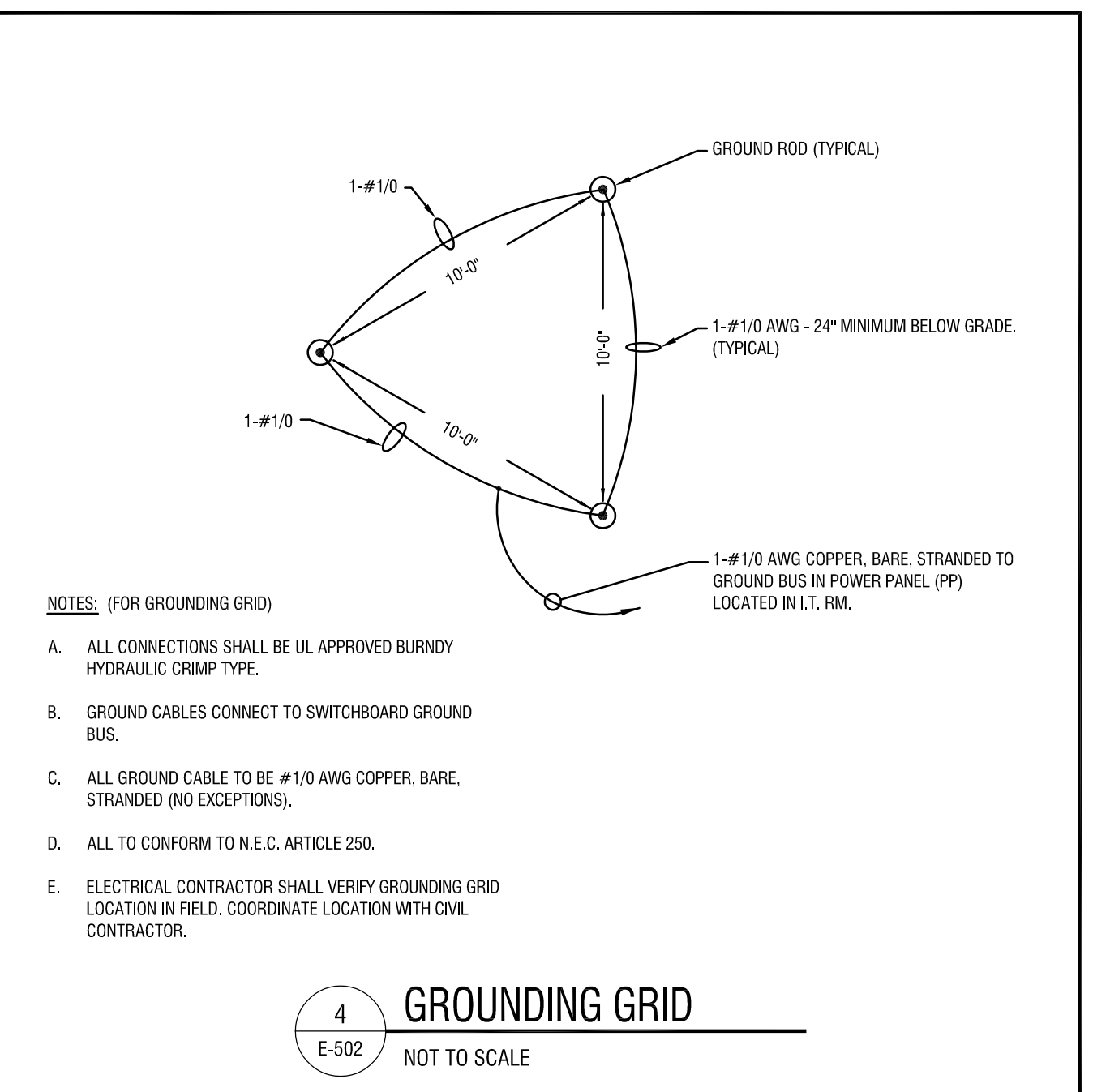
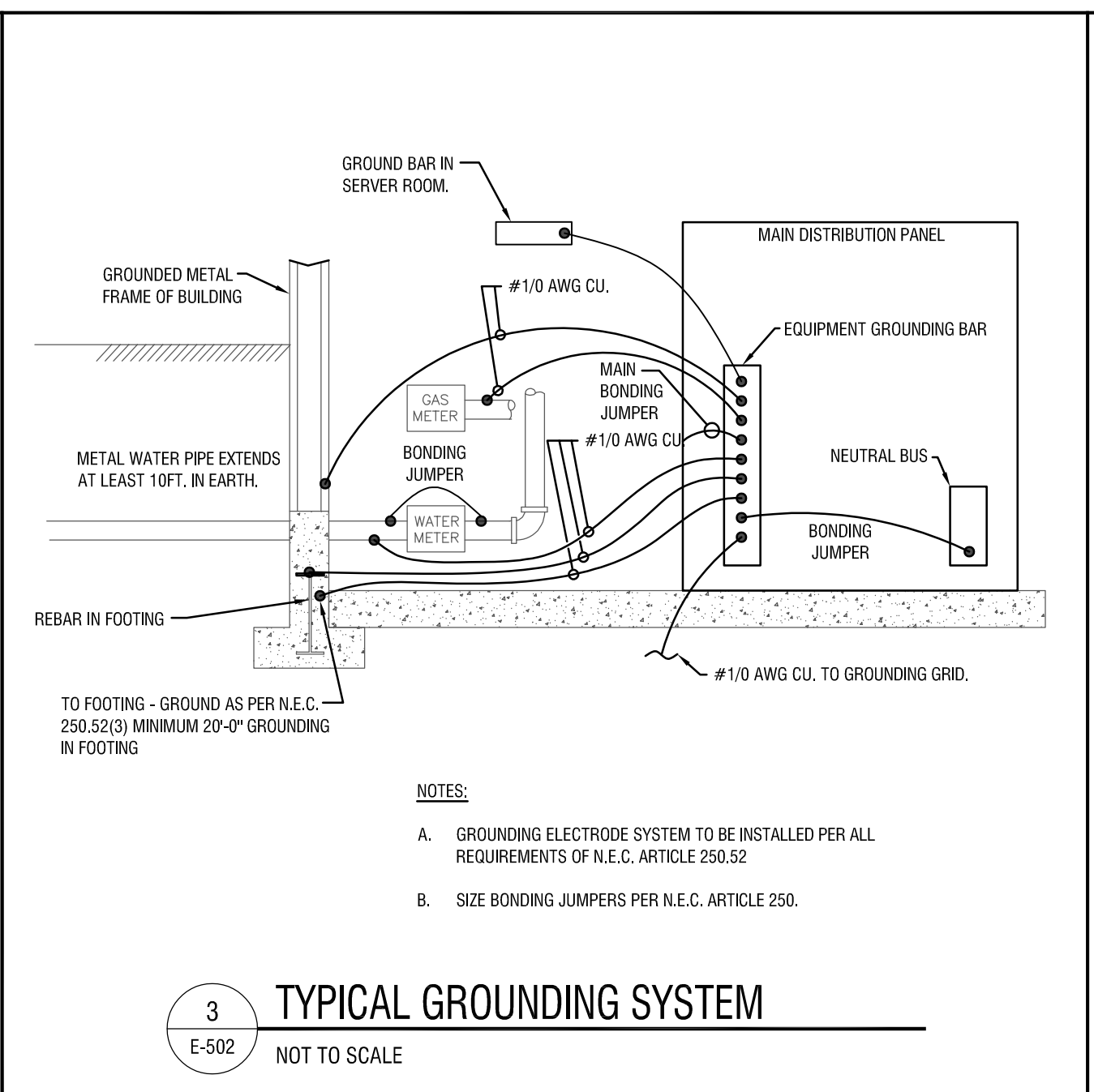
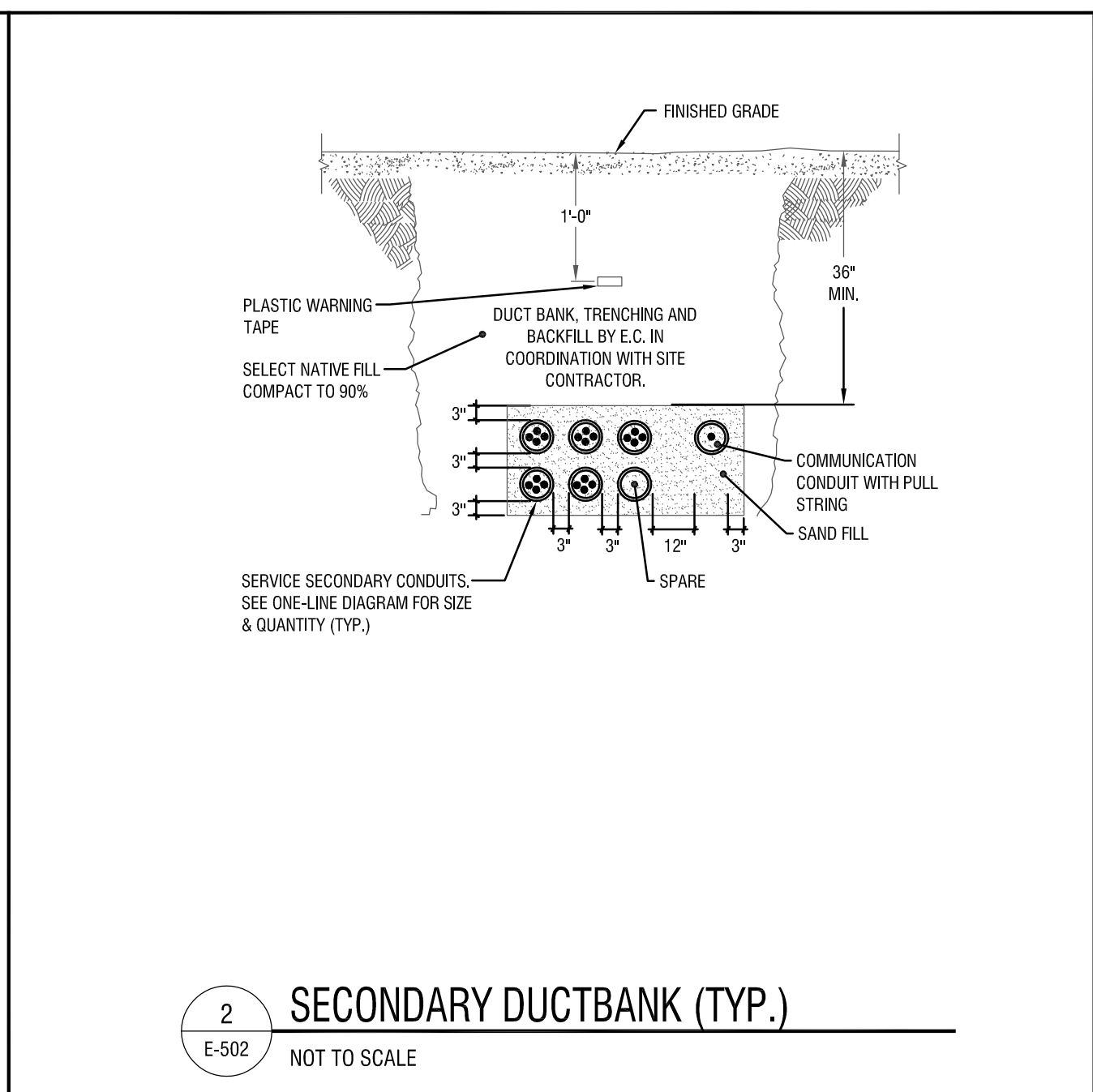
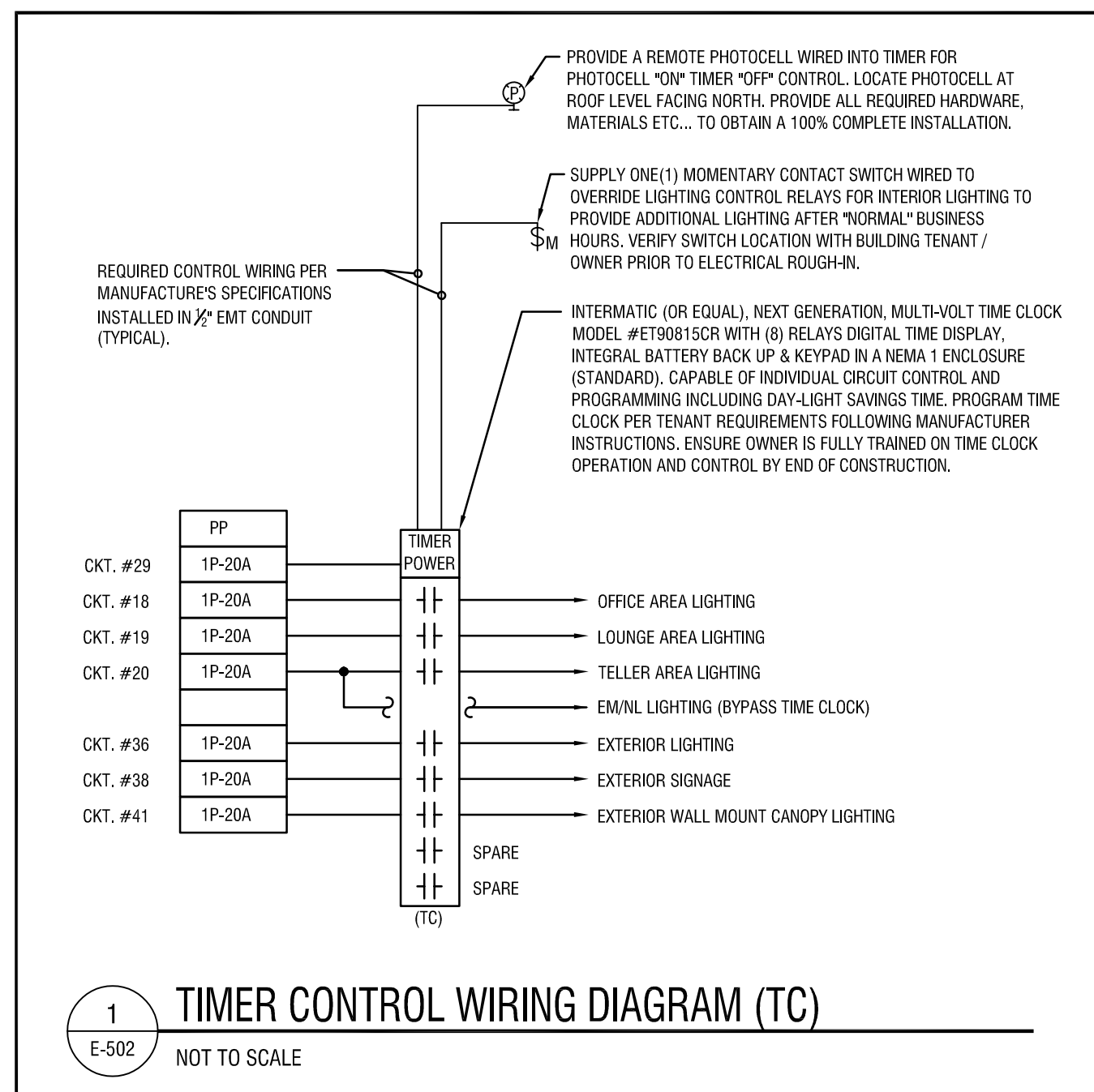
DATE: **25 JAN 2019**

DRAWING NAME:

**DETAILS & ONE-LINE DIAGRAM - ELECTRICAL**

DRAWING NUMBER:

**E-502**



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

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NO.	DATE	DESCRIPTION

PROJECT NUMBER: **2181539**

DRAWN BY: **BTM**

REVIEWED BY: **DMR**

ISSUED FOR: **BID SET**

DATE: **25 JAN 2019**

DRAWING NAME:

**SCHEDULES - ELECTRICAL**

DRAWING NUMBER:

**E-601**

LUMINAIRE SCHEDULE											
TYPE	DESCRIPTION	INSTALLATION METHOD	MAX DEPTH	LAMP/LIGHT SOURCE		BALLAST/DRIVER		SHIELDING / OPTICS	FEATURES / OPTIONS	REFERENCED PRODUCTS	NOTES
				SPEC REF	QTY	SPEC REF	VOLT				
FA	2x2' LED RECESSED BASKET LUMINAIRE, DIE-FORMED STEEL HOUSING. PROVIDE 1400 LUMEN BATTERY PACK FOR EM/NL LUMINAIRES.	RECESSED	-	LED 3500°K 4000 LUMENS	-	0-10V LED DIMMING DRIVER (1-100% LIGHT OUTPUT RANGE)	UNIV	39	CURVED, LINEAR PRISM DIFFUSER	LITHONIA LIGHTING: 2BLT2-40L-ADP-EZ1-LP835 OR APPROVED EQUAL	-
FA1	2x2' LED RECESSED BASKET LUMINAIRE, DIE-FORMED STEEL HOUSING.	RECESSED	-	LED 3500°K 3300 LUMENS	-	0-10V LED DIMMING DRIVER (1-100% LIGHT OUTPUT RANGE)	UNIV	39	CURVED, LINEAR PRISM DIFFUSER	LITHONIA LIGHTING: 2BLT2-33L-ADP-EZ1-LP835 OR APPROVED EQUAL	-
FB	6" DIAMETER RECESSED LED LUMINAIRE, GALVANIZED STEEL HOUSING.	RECESSED	-	LED 3500°K 2000 LUMENS	-	0-10V LED DIMMING DRIVER (10-100% LIGHT OUTPUT RANGE)	UNIV	23	SEMI-SPECULAR FINISH	LITHONIA LIGHTING: LDN6-35-20-LOG-AR-LSS-MVOLT-EZ10 OR APPROVED EQUAL	-
FC	6" DIAMETER RECESSED LED LUMINAIRE, GALVANIZED STEEL HOUSING, WET LOCATION LISTED	RECESSED	-	LED 3500°K 2000 LUMENS	-	0-10V LED DIMMING DRIVER (10-100% LIGHT OUTPUT RANGE)	UNIV	23	SEMI-SPECULAR FINISH	LITHONIA LIGHTING: LDN6-35-20-LOG-AR-LSS-MVOLT-EZ10-WL OR APPROVED EQUAL	-
FD	48" DIAMETER PENDANT LUMINAIRE, EXTRUDED ALUMINUM HOUSING FINISH (BY ARCHITECT)	PENDANT - AIRCRAFT CABLES 12'-0" A.F.F. VERIFY WITH ARCHITECT	-	LED 3500°K 7600 LUMENS	-	0-10V LED DIMMING DRIVER (10-100% LIGHT OUTPUT RANGE)	UNIV	136	SEMI-DIRECT DISTRIBUTION WITH FLAT WHITE ACRYLIC DIFFUSER	PRUDENTIAL LIGHTING: 0-40-LED35-SD-FWA-CC-09-SC-UV-CA144-X3-DM10 FINISH BY ARCHITECT OR APPROVED EQUAL	-
FE	3' LONG SURFACE MOUNT LINEAR LED LUMINAIRE, COLD ROLLED STEEL HOUSING WITH WHITE FINISH	WALL - 1'-0" ABOVE DOOR	-	LED 4000°K 3750 LUMENS	-	0-10V LED DIMMING DRIVER (10-100% LIGHT OUTPUT RANGE)	UNIV	27	ROUND ACRYLIC LENS	LITHONIA LIGHTING: CLKLED-L36-SEF-RDL-MVOLT-G210-40K-80CRI OR APPROVED EQUAL	-
FF	2' LONG RECESSED WALL WASH LUMINAIRE, 20 GAUGE GALVANIZED STEEL HOUSING	RECESSED	-	LED 3500°K 2000 LUMENS	-	0-10V LED DIMMING DRIVER (10-100% LIGHT OUTPUT RANGE)	UNIV	24	(4) ADJUSTABLE LED MODULES, SOLITE DIFFUSION LENS, BLACK INTERIOR WITH MATTE WHITE FINISH	SPECTRUM LIGHTING: RCG24FT3-LEDX20L-35K-1M-DS10-1-SQ34-MBI-FT0624-MM OR APPROVED EQUAL	-
FG	EXTERIOR WALL MOUNT LED LUMINAIRE, TWO PIECE DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINKS AND PHOTOCELL.	SURFACE - WALL 14'-0" A.F.F. U.N.O.	-	LED 4000°K 10,000 LUMENS	-	LED DRIVER	UNIV	109	MEDIUM DISTRIBUTION WITH ACRYLIC LENS	LITHONIA LIGHTING: DSXW2LED-30C-40K-14M-120-PE-FINISH BY ARCHITECT OR APPROVED EQUAL	-
FH	FLEXIBLE LED COVE TAPE LUMINAIRE.	COVE	-	LED 3500°K 137 LUMENS/FT.	-	ACOLYTE LOW VOLTAGE LED DRIVER	UNIV	3.0/FT.	CLEAR LENS	PROVIDE ACRYLYTE LOW VOLTAGE 200W LED DIMMING DRIVER (ELV) FOR CEILING MOUNT COVE LIGHTING. MODEL DRV-W-2420DELV. PROVIDE 60W LED DIMMING DRIVER (ELV) FOR VERTICAL COVE LIGHTING. MODEL DRV-W-2460ELV.	-
FI	12" SQUARE RECESSED LED LUMINAIRE, CORROSION RESISTANT ALUMINUM HOUSING AND TRIM, WET LOCATION LISTED	RECESSED	-	LED 4000°K 4,400 LUMENS	-	LED DRIVER	UNIV	47	FLUSH LENS	SPECTRUM LIGHTING: SRI25QLED0A-44L-40K-E-1-CR-FT212-WL-FINISH BY ARCHITECT OR APPROVED EQUAL	-
FJ	6" WIDE EXTERIOR WALL MOUNT LED LUMINAIRE, TWO PIECE DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINKS AND GASKETED DOOR FRAME.	WALL - 1'-0" ABOVE DOOR	-	LED 4000°K 4,500 LUMENS	-	LED DRIVER	UNIV	40	PRECISION MOLDED ACRYLIC LENS WITH TYPE III DISTRIBUTION	LITHONIA LIGHTING: WSOLED-P3-40K-SRS-MVOLT-FINISH BY ARCHITECT OR APPROVED EQUAL	-
EM1	EMERGENCY LED LIGHTING WITH A WHITE IMPACT AND SCRATCH RESISTANT THERMOPLASTIC HOUSING, TWIN ADJUSTABLE HEADS AND AN INTEGRAL BATTERY PACK	WALL 8'-0" A.F.F.	-	TWO 1.5W LEDs	-	-	UNIV	3.0	-	LITHONIA LIGHTING: "QUANTUM" ELM2-LED OR APPROVED EQUAL	-
EM2	EMERGENCY LED LIGHTING WITH A WHITE IMPACT AND SCRATCH RESISTANT THERMOPLASTIC HOUSING, TWIN ADJUSTABLE HEADS AND A HIGH OUTPUT INTEGRAL BATTERY PACK	WALL 8'-0" A.F.F.	-	TWO 1.5W LEDs	-	-	UNIV	3.0	-	LITHONIA LIGHTING: "QUANTUM" ELM2-LED-HO OR APPROVED EQUAL	-
EM3	REMOTE EMERGENCY LED FIXTURE WITH ADJUSTABLE LAMP HEAD AND A WEATHER-PROOF ALUMINUM HOUSING. FOR EMERGENCY EGRESS ILLUMINATION, LAMP HEADS SHALL BE SUPPLIED BY A AN LED REMOTE BATTERY PACK OR COMBO UNIT.	WALL 8'-0" A.F.F.	-	ONE 1.5W LED	-	-	UNIV	1.5	-	LITHONIA LIGHTING: ELA-QWP-L0304 OR APPROVED EQUAL	-
X1	EXIT SIGN, RECESSED MOUNT CEILING OR BACK, HIGH POLISH, INJECTION MOLDED ACRYLIC PANEL, RED LETTERS WITH INTEGRAL BATTERY PACK.	WALL OR CEILING	-	LED	-	-	UNIV	-	-	LITHONIA LIGHTING: "EDGE" LRP-1-RC-120/277-ELN OR APPROVED EQUAL	-

- GENERAL NOTES:**
- REFERENCED PRODUCTS LISTED OF MANUFACTURER'S SERIES &/OR MODEL NUMBERS ARE LISTED TO GIVE A REPRESENTATION OF ACCEPTABLE BUILD QUALITY AND GENERALLY CONFORM TO THE LUMINAIRE DESIGN INTENT - LISTED MANUFACTURER'S STANDARD PRODUCTS MAY REQUIRE CUSTOM MODIFICATIONS TO MEET THE REQUIREMENTS SPECIFIED IN THE LUMINAIRE SCHEDULE & IN THE SPECIFICATIONS. LISTED SIZES, LAMPING, LUMEN OUTPUT, EFFICACY, INPUT POWER, OPTIONS, & TYPES OF LUMINAIRES MAY NOT BE AVAILABLE FROM ANY GIVEN MANUFACTURER OR SERIES LISTED. **IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE PRODUCTS THAT MEET ALL LISTED REQUIREMENTS IN THE LUMINAIRE SCHEDULE AND SPECIFICATIONS.** EQUIVALENT PRODUCTS BY OTHER MANUFACTURERS MAY BE CONSIDERED, PRIOR TO BID, AND APPROVED AT THE DISCRETION OF THE DESIGN ENGINEER.
  - DETERMINE SPECIFIC LUMINAIRE PART NUMBERS BASED ON THE REFERENCED PRODUCT SERIES, WRITTEN DESCRIPTIONS, & SPECIFICATIONS.
  - ALERT ARCHITECT/ENGINEER TO DISCREPANCIES PRIOR TO BID.
  - UNLESS NOTED OTHERWISE, LED DRIVERS SHALL HAVE A POWER FACTOR OF NOT LESS THAN 0.9 AND A TOTAL HARMONIC DISTORTION OF NOT MORE THAN 20%.
  - LUMINAIRE SHALL HAVE A WARRANTY OF NOT LESS THAN 5 YEARS.

EQUIPMENT CONNECTION SCHEDULE												
LABEL	DESCRIPTION	LOCATION	LOAD	VOLTS, PHASE	FEED	CIRCUIT BREAKER	WIRE & CONDUIT	CONTROLLER TYPE	CONTROLLER SIZE	CONTROLLER ACCESSORIES	DISCONNECT	REMARKS
DWH-1	DOMESTIC WATER HEATER	JANITORS CLOSET 111	6KW	208V, 3PH	PP/35,37,39	25A/3P	3#10, 1#12GND IN 3/4"C	-	-	-	SS, 30A, NEMA 1	-
EF-1	EXHAUST FAN	ROOF	1/6HP	120V, 1PH	PP/21	15A/1P	2#12, 1#12GND IN 1/2"C	-	-	-	IDS	2
RTU-1	ROOF-TOP UNIT	ROOF	18MCA	208V, 3PH	PP/22,24,26	25A/3P	3#10, 1#10GND IN 3/4"C	-	-	-	IDS	1
RTU-2	ROOF-TOP UNIT	ROOF	19MCA	208V, 3PH	PP/23,25,27	25A/3P	3#10, 1#10GND IN 3/4"C	-	-	-	IDS	1
RTU-3	ROOF-TOP UNIT	ROOF	43MCA	208V, 3PH	PP/28,30,32	50A/3P	3#6, 1#10GND IN 1"C	-	-	-	IDS	1
UH-1	UNIT HEATER	VESTIBULE 113	1.5KW	208V, 1PH	PP/42,44	15A/2P	2#12, 1#12GND IN 1/2"C	FWU	-	-	-	-
UH-2	UNIT HEATER	TELLER AREA 123	5.0KW	208V, 3PH	PP/43,45,47	20A/3P	3#12, 1#12GND IN 1/2"C	-	-	-	SS, 30A, NEMA 1	3

- EQUIPMENT CONNECTION SCHEDULE NOTES**
- PROVIDE FIRE ALARM FAN SHUTDOWN.
  - EXHAUST FAN CONTROLLED BY BOTH THE MEN AND WOMENS ROOMS LOCAL LIGHT SWITCHES. SEE WIRING DIAGRAM 7/E-501 FOR FURTHER INFORMATION.
  - INSTALL DISCONNECT ABOVE CEILING CLOUD & WITHIN SITE OF UH-2. PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR A 100% COMPLETE INSTALLATION.

- MOTOR CONTROLLER TYPES:**
- TYPE A - (FULL VOLTAGE, NON-MAGNETIC, SINGLE PHASE); SURFACE MOUNT, TOGGLE SWITCH, STAINLESS STEEL WALLPLATE.
  - TYPE A1 - (FULL VOLTAGE, NON-MAGNETIC SINGLE PHASE); SIMILAR TO TYPE A ABOVE EXCEPT WITH RED PILOT LIGHT.

- EQUIPMENT CONNECTION SCHEDULE LEGEND**
- FSS - FUSIBLE SAFETY SWITCH, NUMBER INDICATES SWITCH SIZE, FUSES SHALL BE SIZED FOR EQUIPMENT MANUFACTURERS REQUIREMENTS.
  - AU - AT UNIT.
  - SS - SAFETY SWITCH, NON-FUSED.
  - PCU - PACKAGED CONTROL UNIT, PROVIDE BY OTHERS.
  - TS - TOGGLE TYPE SWITCH (SINGLE GANG).
  - IDS - INTEGRAL DISCONNECT SWITCH.
  - R - RELAY FOR AUTOMATIC OPERATION BY THE FMS SYSTEM.
  - T - LINE VOLTAGE THERMOSTAT.
  - VFD - VARIABLE FREQUENCY DRIVE.
  - TSP - TOGGLE SWITCH WITH PILOT LIGHT.
  - ECTR - EXISTING CONTROLLER TO REMAIN.
  - 3R - NEMA 3R ENCLOSURE.
  - OS - OCCUPANCY SENSOR.
  - ST - TIMER SWITCH.
  - SMPX - SIMPLEX RECEPTACLE.
  - FWU - FURNISHED WITH UNIT

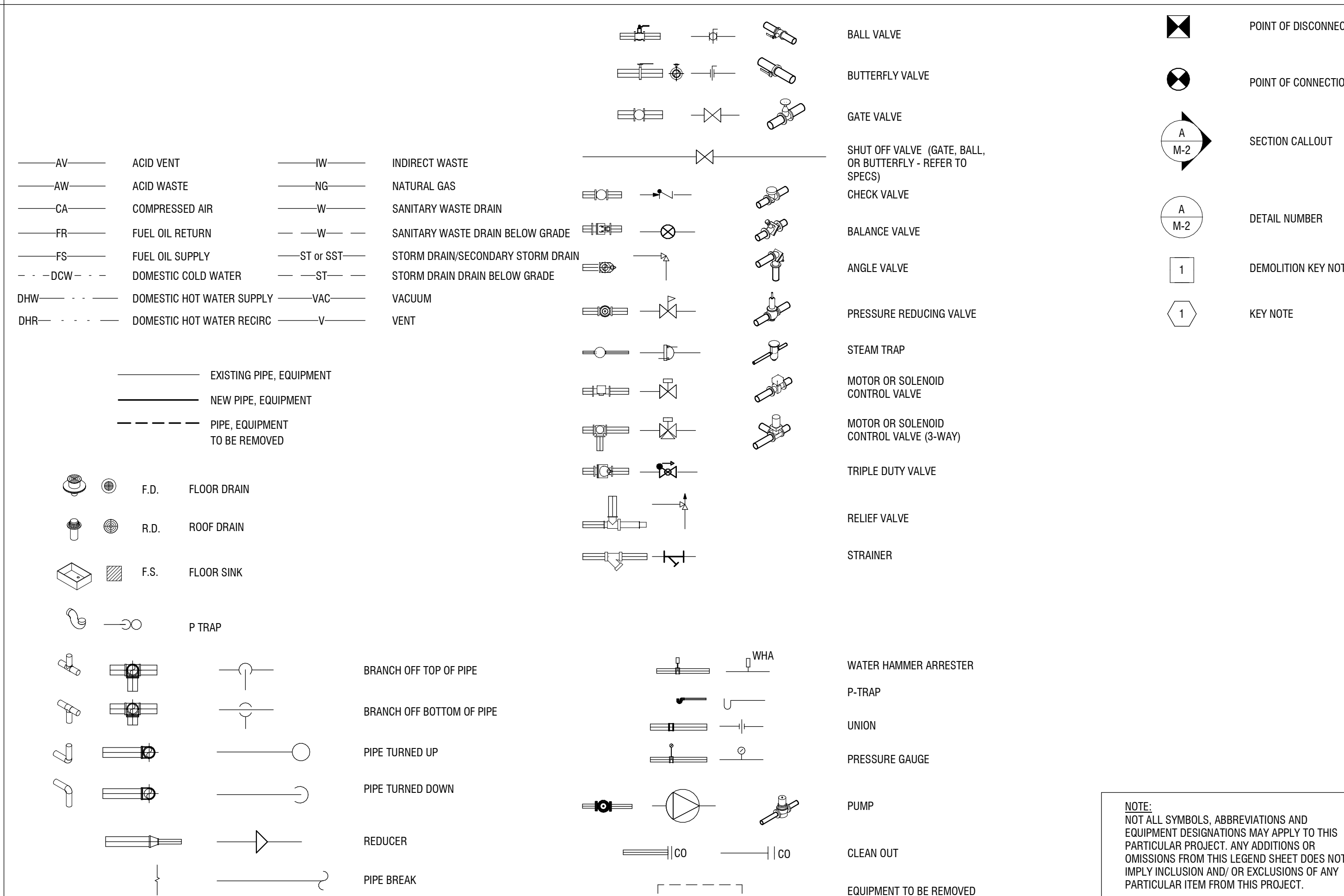
DESIGN BASE: SQUARE D OR APPROVED EQUAL										FULLY RATED AIC: 42,000 Amps RMS SYM.										
LOCATION: LT, RM, 112										SERVICE: 208/120V, 3Ø, 4W										
BUS RATING: 300 Amps										MOUNTING: SURFACE										
MAIN: 300 Amp MCB WITH INTEGRAL SPD										FED FROM: UTILITY TRANSFORMER										
SERVICE ENTRANCE LABEL: YES										ENCLOSURE TYPE: NEMA 1										
PANEL SCHEDULE										PANEL 'PP'										
CKT.	LOAD DESIGNATION	WIRE SIZE	BREAKER	L1 (VA)	L2 (VA)	L3 (VA)	BREAKER	WIRE SIZE	LOAD DESIGNATION	CKT.										
1	RESTROOM RECEPTACLES		20A/1P	720	1260		20A/1P		OFFICE 120 RECEPTACLES	2										
3	BREAK ROOM 119 RECEPTACLES		20A/1P		540	1260			BRANCH MANAGER 121 RECEPTACLES	4										
5	STORAGE ROOM 118 RECEPTACLES		20A/1P			720	720		DRINKING FOUNTAIN RECEPTACLES	6										
7	WAITING ROOM 122 RECEPTACLES		20A/1P	900	720				COPY ROOM PRINTER RECEPTACLES	8										
9	COPY ROOM 108 RECEPTACLES		20A/1P		900	1260			WORK ROOM 107 RECEPTACLES	10										
11	TELLER AREA 123 FLOOR RECEPTACLES		20A/1P			360	360		TELLER AREA 123 FLOOR RECEPTACLES	12										
13	OFFICE 103 RECEPTACLES		20A/1P	1260	1260				OFFICE 104 RECEPTACLES	14										
15	I.T. ROOM RECEPTACLES		20A/1P		720	720			FIRE ALARM CONTROL PANEL	16										
17	OFFICE 106 RECEPTACLES		20A/1P			540	1060		OFFICE AREA LIGHTING	18										
19	LOUNGE AREA LIGHTING		20A/1P	820	1060				TELLER AREA LIGHTING	20										
21	EXHAUST FAN (EF-1)		15A/1P		540	2160				22										
23						2280	2160	25A/3P		24										
25	ROOF-TOP UNIT (RTU-2)		25A/3P	2280	2160					26										
27					2280	5160				28										
29	TIME CLOCK		20A/1P			540	5160	50A/3P		30										
31	ROOF TOP RECEPTACLES		20A/1P	540	5160					32										
33	DRIVE-THRU ATM		20A/1P		720	1260		15A/1P		34										
35						2000	660	20A/1P		36										
37	DOMESTIC HOT WATER HEATER (DWH-1)		25A/3P	2000	600					38										
39					2000	600		15A/1P		40										
41	EXTERIOR WALL MOUNT CANOPY LIGHTS		20A/1P			200	750			42										
43				1667	750			15A/2P		44										
45						1667	540	20A/1P		46										
47	UNIT HEATER (UH-2)		20A/3P			1667	720	20A/1P		48										
49	BREAK ROOM 119 REFRIGERATOR RECEPTACLE		20A/1P*	720	-					50										
51	SPARE		20A/1P							52										
53	SPARE		20A/1P							54										
TOTAL CONNECTED VA/LEG				23897		22327		19897												
TOTAL CONNECTED KVA				66.12						* INDICATES GFCI TYPE CIRCUIT BREAKER										
TOTAL CONNECTED AMPS				183.7																

# GENERAL NOTES

## PLUMBING GENERAL NOTES

- DOMESTIC WATER SYSTEMS ARE TO BE COMPOSED OF CERTIFIED LEAD FREE MATERIALS. REFER TO PLUMBING SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IF REQUIRED, PROVIDE SHUT DOWNS AND TIE-INS DURING OFF HOURS TO AVOID DISRUPTION OF BUILDING SYSTEMS. COORDINATE ALL SHUT DOWN REQUIREMENTS PRIOR TO SUBMITTING BID (INCLUDE ALL REQUIRED DURING OFF HOURS IN BID).
- PROVIDE ALL WORK IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES. OBTAIN ALL REQUIRED PERMITS.
- PROVIDE REQUIRED EXCAVATION, BACKFILL AND COMPACTION FOR ALL UNDERGROUND PLUMBING WORK.
- PROVIDE CUTTING, CORING AND PATCHING OF ALL WALLS, SLABS AND DECKS AS REQUIRED FOR WORK SHOWN. COORDINATE ALL WORK WITH OWNER, GENERAL CONTRACTOR AND ALL TRADES.
- PROVIDE SCHEDULE 40 BLACK STEEL PIPE SLEEVES FOR ALL UNDERGROUND PIPING PASSING THROUGH OR UNDER FOOTINGS, WALLS, FOUNDATION WALLS, SLABS FLOORS AND/OR UNDERGROUND STRUCTURES. REFER TO SPECIFICATION 220517 "SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING" FOR ADDITIONAL REQUIREMENTS.
- WHERE PIPING IS LOCATED OVER FOOTINGS AND/OR OTHER UNDERGROUND STRUCTURES, ROLL DOWN AS REQUIRED TO CONNECT TO SYSTEMS NOTED. PROVIDE REQUIRED OFFSETS, FITTINGS AND CONNECTIONS.
- PITCH ALL SANITARY, WASTE, AND STORM PIPING AS FOLLOWS: PIPING SMALLER THAN 3", PITCH AT 2 PERCENT (1/4" PER FOOT) MINIMUM. 3" AND LARGER, PITCH AT 1 PERCENT (1/8" PER FOOT) MINIMUM.
- CONNECT TO SITE PIPING OUTSIDE BUILDING AS SHOWN. PROVIDE REQUIRED OFFSETS, FITTINGS AND CONNECTIONS. FIELD VERIFY EXACT LOCATION, DEPTH AND COMPOSITION OF SITE SERVICES AND COORDINATE ALL WORK WITH SITE CONTRACTOR.
- COORDINATE ALL VENT TERMINATIONS ABOVE ROOF WITH HVAC CONTRACTOR. ALL VENT TERMINATIONS ABOVE ROOF SHALL BE A MINIMUM 10'-0" AWAY FROM ANY HVAC OUTSIDE AIR INTAKE (ROOFTOP UNIT, LOUVER, ETC.).
- REFER TO ARCHITECTURAL DRAWINGS AND THE PROJECT SPECIFICATIONS FOR ANY PROJECT PHASING REQUIREMENTS.
- THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ICC PLUMBING CODE, NEW YORK STATE SUPPLEMENT AND LOCAL PLUMBING INSPECTOR.
- THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMATIC. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC.
- CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 5 DAYS IN ADVANCE.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.
- ALL WORK SHALL BE COORDINATED WITH THE EQUIPMENT VENDORS.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. CONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION.
- ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED PER THE PLUMBING CODE REQUIREMENTS AND PER MANUFACTURERS RECOMMENDATIONS.
- ALL PIPING PENETRATIONS THROUGH WALL OR FLOOR SHALL BE SEALED TO EQUAL THE FIRE RATING OF THE WALL OR FLOOR. PROVIDE UL LISTED FIRE STOP ASSEMBLIES.
- THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY STATE AND LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR. REFER TO SPECIFICATIONS FOR MINIMUM TEST REQUIREMENTS.
- THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE TO THE ICC PLUMBING CODE & HEALTH DEPARTMENT REQUIREMENTS.
- THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER STATE AND LOCAL CODE & PER THE REQUIREMENT OF THE AUTHORITY HAVING JURISDICTION.
- ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 25'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
- CONTRACTOR SHALL INSULATE ALL PLUMBING PIPING PER SPECIFICATION AND THE REQUIREMENTS OF THE ICC ENERGY CONSERVATION CODE.

# DRAWING SYMBOLS



## APPLICABLE CODES

- BUILDING CODE OF NEW YORK STATE
- MECHANICAL CODE OF NEW YORK STATE
- FIRE CODE OF NEW YORK STATE
- PLUMBING CODE OF NEW YORK STATE
- ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
- NATIONAL ELECTRIC CODE
- NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

## EQUIPMENT DESIGNATIONS

BT	BATH TUB	MSB	MOP SINK
CO	CLEANOUT	NE	NON-FREEZE HOSE BIB
CS	CUP SINK	P	PUMP
CV	CONTROL VALVE	OD	OVERFLOW DRAIN
DF	DRINKING FOUNTAIN	OS	OIL SEPARATOR
DECK	DECK PLATE CLEANOUT	RD	ROOF DRAIN
DWH	DOMESTIC WATER HEATER	RPZ	REDUCED PRESSURE ZONE VALVE
DWP	DOMESTIC WATER PUMP	SK	SINK
EJ	EXPANSION JOINT	SA	SHOCK ABSORBER (WATER HAMMER ARRESTOR)
ET	EXPANSION TANK	SS	SERVICE SINK
EWCO	ELECTRIC WATER COOLER	SH	SHOWER
EWS	EMERGENCY EYEWASH/SHOWER	SP	SUMP PUMP
FD	FLOOR DRAIN	SRV	SAFETY RELIEF VALVE
F	FILTER	SWP	SEWAGE PUMP
GM	GAS METER	TK	WATER TANK
HB	HOSE BIBB	UR	URINAL
KS	KITCHEN SINK	WC	WATER CLOSET
LAV	LAVATORY	WCO	WALL CLEANOUT
M	METER	WM	WATER METER

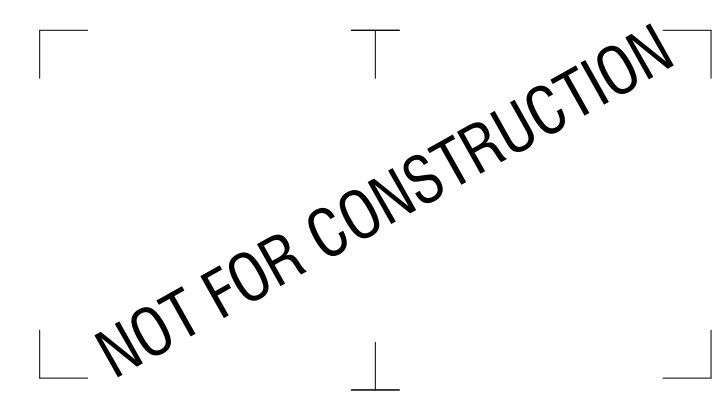
NOTE: SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

## ABBREVIATIONS

%	PERCENT	FA	FREE AREA	NIC	NOT IN CONTRACT
AC	ALTERNATING CURRENT	FIN	FINISHED FLOOR	NO	NORMALLY OPEN
ADJ	ADJACENT	FL	FULL LOAD AMPS	NPT	NATIONAL PIPE TREAD
AFF	ABOVE FINISHED FLOOR	FLA	FEET PER MINUTE	NRS	NON-RISING STEM
AFG	APPROXIMATE (LY)	FPM	FEET PER MINUTE	NTS	NOT TO SCALE
ALT	ALTERNATE	FPS	FEET PER SECOND	OC	ON CENTER
AMB	AMBIENT	FT	FOOT OR FEET	OD	OUTSIDE
AMP	AMPERE (AMP AMPS)	FUT	UTURE	ODSAY	OUTSIDE SCREW AND YOKE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	GA	GAGE OR GAUGE	PC	PLUMBING CONTRACTOR
APPROX	APPROXIMATE (LY)	GAL	GALLONS	PLBG	PLUMBING
AVG	AVERAGE	GC	GENERAL CONTRACTOR	PH	PHASE (ELECTRICAL)
BFP	BACKFLOW PREVENTER	GPM	GALLONS PER MINUTE	PRESS	PRESSURE
BHP	BRAKE HORSEPOWER	GPD	GALLONS PER DAY	PSF	POUNDS PER SQUARE FOOT
BLDG	BUILDING	GPH	GALLONS PER HOUR	PSI	POUNDS PER SQUARE INCH
BO	BOTTOM OF	HD	HEAD	PSIG	PSI GAUGE
BSMT	BASEMENT	HG	MERCURY	PRV	PRESSURE REDUCING VALVE
BTU	BRITISH THERMAL UNIT	HORIZ	HORIZONTAL	RCVR	RECEIVER
BV	BALANCING VALVE	HP	HORSEPOWER	RECIRC	RECIRCULATE
CAP	CAPACITY	HPC	HIGH PRESSURE CONDENSATE	RHW	HOT WATER RE-CIRCULATION
CIP	CAST IRON PIPE	HPS	HIGH PRESSURE STEAM	RO	ROUGH OPENING
CLG	CEILING	HR	HOUR	RPDA	REDUCED-PRESSURE DETECTOR ASSY.
CLR	CLEAR	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	RPM	REVOLUTIONS PER MINUTE
CO	CLEANOUT or CARBON MONOXIDE	HZ	FREQUENCY	RZ	REDUCED-PRESSURE ZONE
COL	COLUMN	ID	DIAMETER, INSIDE	SCH	STEAM CAPTURE HOOD
CONN	CONNECTION	IN	INCH	SPEC	SPECIFICATION
CONC	CONCRETE	INSUL	INSULATION	SPLY	SUPPLY
CONT	CONTINUOUS	INT	INTERIOR	SQ	SQUARE
CU FT	CUBIC FEET	IPS	IRON PIPE SIZE	SQ FT	SQUARE FOOT (FEET)
CV	VALVE FLOW COEFFICIENT	INV	INVERT	SQ IN	SQUARE INCH (INCHES)
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	KW	KILOWATT	SST	SECONDARY STORM
DCV	DETECTOR CHECK VALVE	KWH	KILOWATT HOUR	ST	STORM
DEM	DEMOLISH or DEMOLITION	LBS	POUNDS	STD	STANDARD
DHW	DOMESTIC HOT WATER	LF	LINEAR FEET	SUCT	SUCTION
DIA	DIAMETER	LG	LENGTH	TSTAT	THERMOSTAT
DIP	DUCTILE IRON PIPE	LOC	LOCATION	TBO	TO BE DETERMINED
DWH	DOMESTIC WATER HEATER	LPC	LOW PRESSURE CONDENSATE	TC	TEMPERATURE CONTROL CONTRACTOR
DWV	DRAIN, WASTE, & VENT	LPS	LOW PRESSURE STEAM	TD	TEMPERATURE DIFFERENCE
DWG	DRAWING	LRA	LOCKED ROTOR AMPS	TEMP	TEMPERATURE
(E)	EXISTING	LWT	LEAVING WATER TEMPERATURE	TMV	THERMOSTATIC MIXING VALVE
ENGR	ENGINEER	MATL	MATERIAL	TO	TOP OF
EQ	EQUAL	MAX	MAXIMUM	TP	TYPICAL
EST	ESTIMATED	MH	BTU PER HOUR (THOUSAND)	V	VOLT
ETR	EXISTING TO REMAIN	MECH	MECHANICAL	VAC	VACUUM
EWH	ELECTRIC WATER HEATER	MFG	MANUFACTURER	VAR	VARIABLE
EWV	ENTERING WATER TEMPERATURE	MIN	MINIMUM	VEL	VELOCITY
EXIST	EXISTING	MISC	MISCELLANEOUS	VIF	VERIFY IN FIELD
EXP	EXPANSION	MOPC	MAXIMUM OVERCURRENT PROTECTION	VOL	VOLUME
EXT	EXTERIOR	MPC	MEDIUM PRESSURE CONDENSATE	W	WASTE
F	DEGREES FAHRENHEIT	MPS	MEDIUM PRESSURE STEAM	W/	WITH
		MTG	MOUNTING	W/O	WITH OUT
		N/A	NOT APPLICABLE	WCO	WALL CLEANOUT
		NC	NORMALLY CLOSED	WHA	WATER HAMMER ARRESTER
				WM	WATER METER
				WPD	WATER PRESSURE DROP
				WT	WEIGHT
				WWP	WORKING WATER PRESSURE

NOTE: SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

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716-551-6281  
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## BANK ON BUFFALO



## NEW COMMUNITY BRANCH - NIAGARA FALLS

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **MMJ**

REVIEWED BY: **SAD**

ISSUED FOR: **BID SET**

DATE: **25 JAN 2019**

DRAWING NAME:

## PLUMBING LEGEND SHEET

DRAWING NUMBER:

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**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

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Revisions		
PROJECT NUMBER: 2181539		
DRAWN BY: MMJ		
REVIEWED BY: SAD		
ISSUED FOR: BID SET		
DATE: 25 JAN 2019		
DRAWING NAME:		

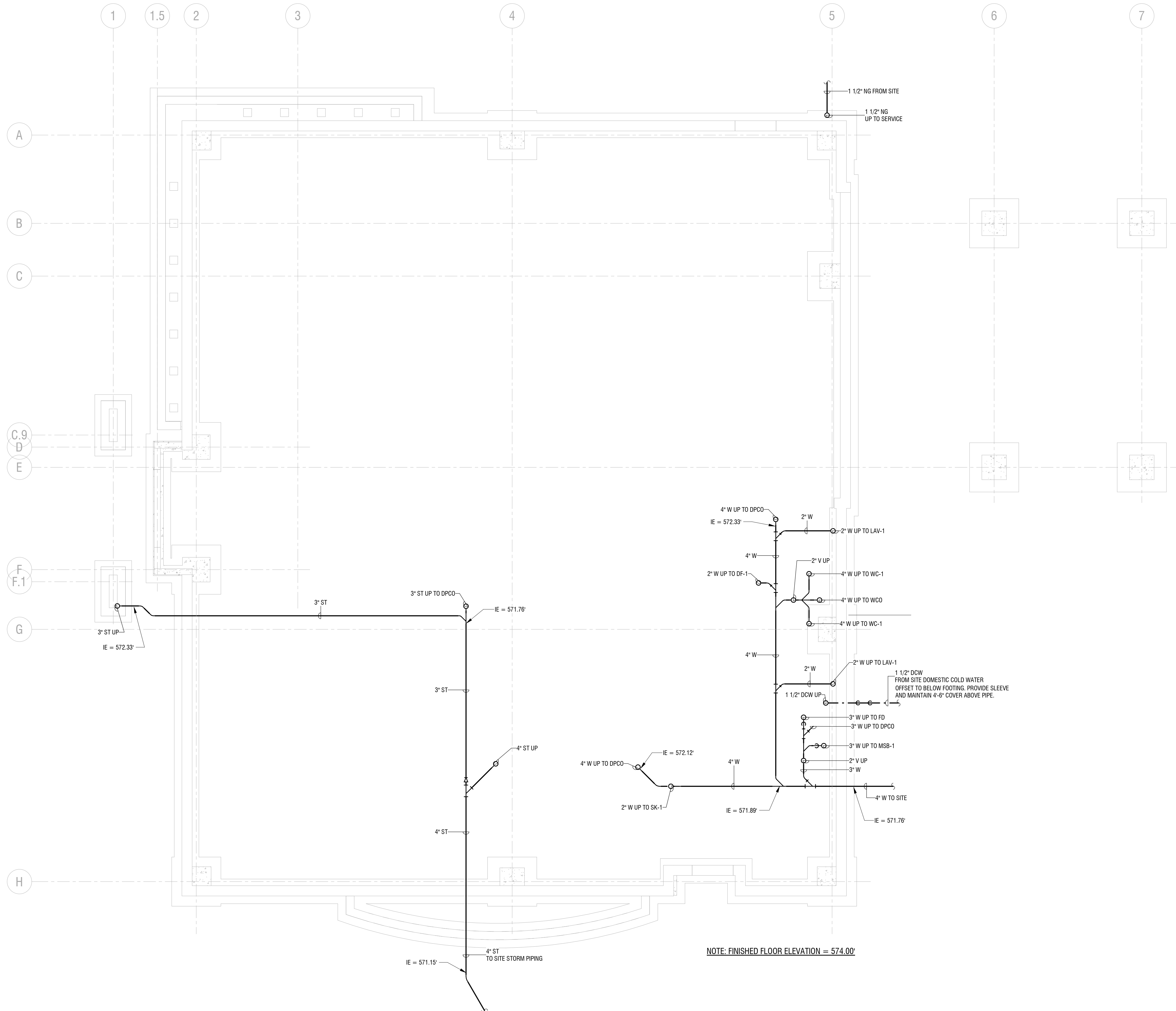
**UNDERGROUND PLUMBING PLAN**

DRAWING NUMBER:

**P-010**

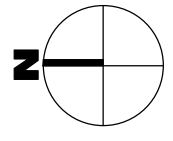
**GENERAL NOTES:**

- COORDINATE OFFSET ABOVE FOOTING WHERE REQUIRED.



NOTE: FINISHED FLOOR ELEVATION = 574.00'

**1** UNDERSLAB PLUMBING PLAN  
P-010 1/4" = 1'-0"



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

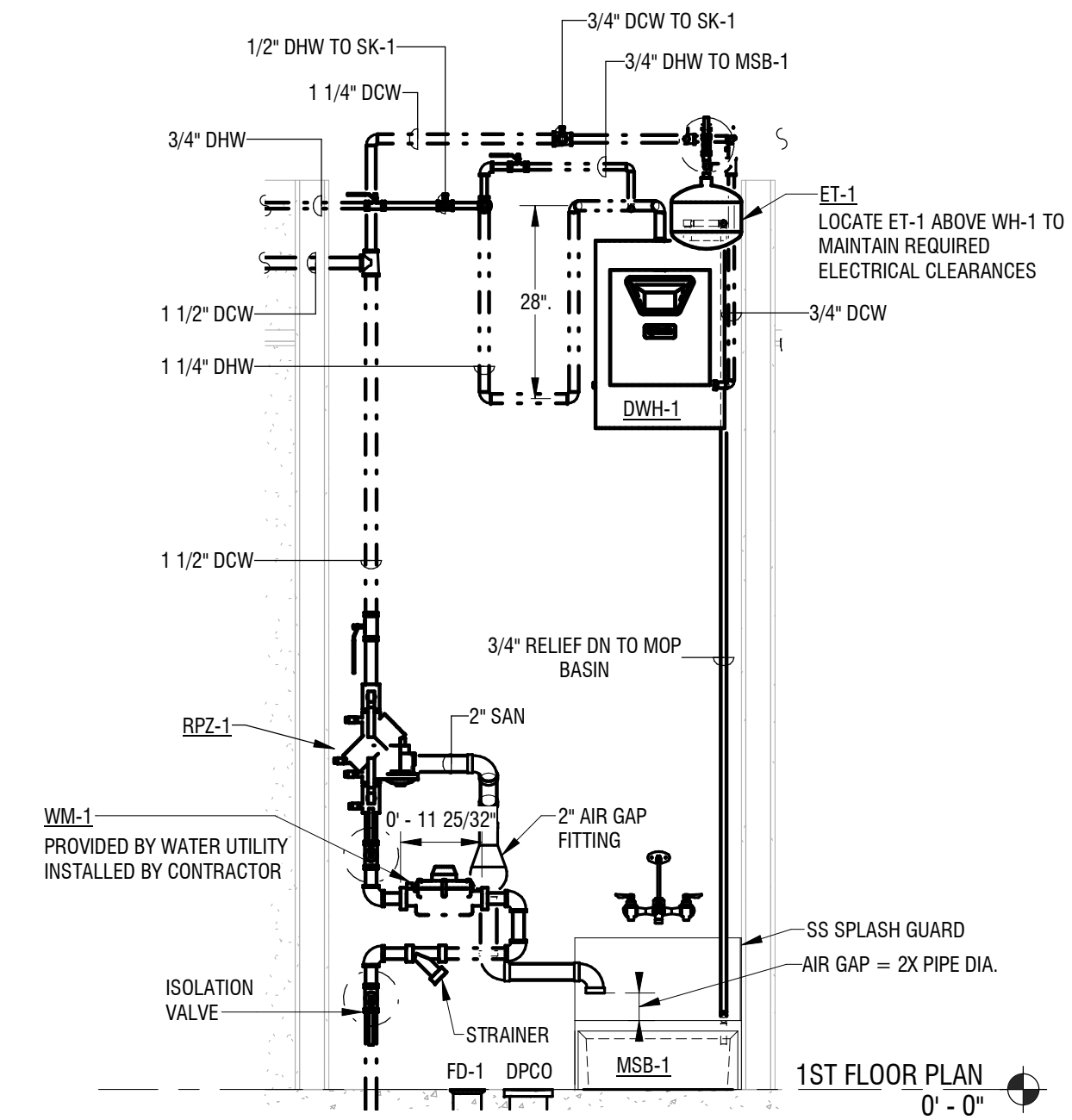
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DRAWN BY:	MMJ	
REVIEWED BY:	SAD	
ISSUED FOR:	BID SET	
DATE:	25 JAN 2019	
DRAWING NAME:		

**FIRST FLOOR DOMESTIC WATER PLAN**

DRAWING NUMBER:

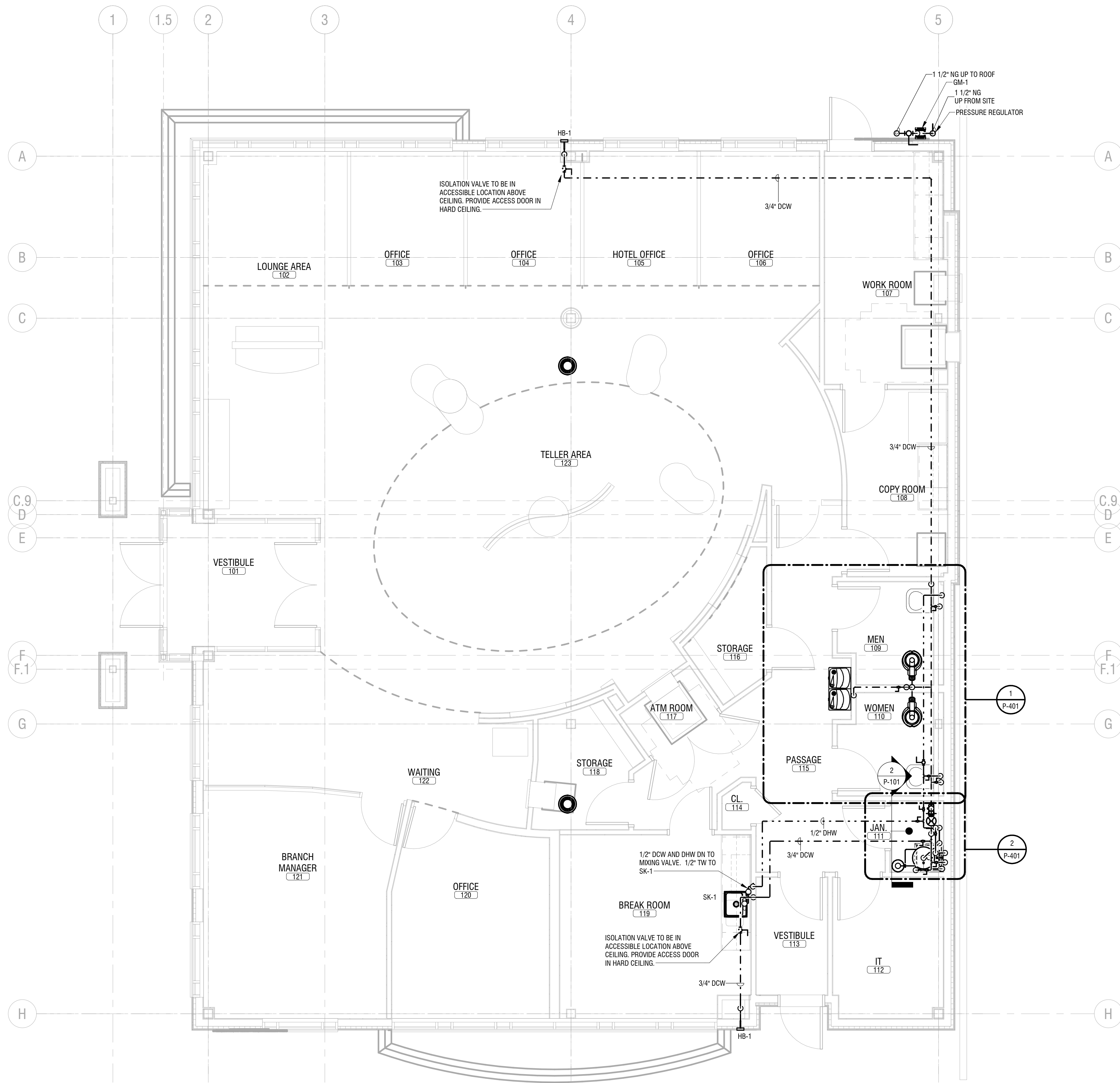
**P-101**



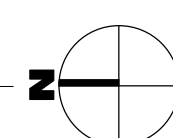
**2 JANITOR CLOSET UTILITIES ELEVATION**  
P-101 1/2" = 1'-0"

**GENERAL NOTES:**

1. ASSURE 3'-0" CLEAR FROM RPZ-1 TO WALL.
2. 8" CLEAR FROM TEST PORTS TO WALL.
3. ASSURE REQUIRED CLEARANCES ABOVE WH-1 FOR MAINTENANCE.
4. MAINTAIN 8" CLEAR BEHIND RPZ-1 TO WALL FOR TESTING CLEARANCE.



**1 FIRST FLOOR PLUMBING PLAN**  
P-101 1/4" = 1'-0"



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**NEW COMMUNITY BRANCH - NIAGARA FALLS**

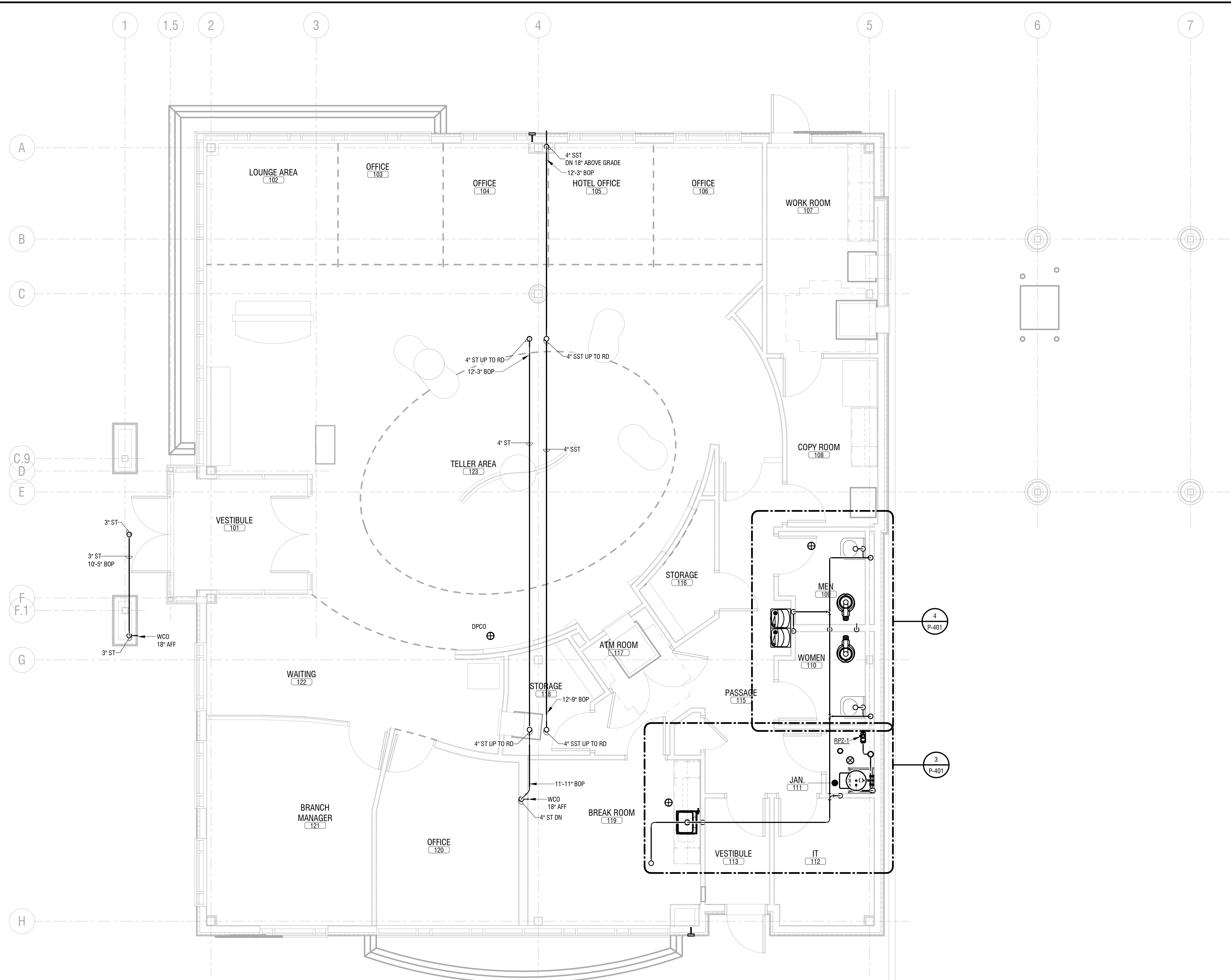
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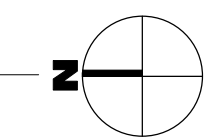
**FIRST FLOOR  
SANITARY/WASTE PLAN**

DRAWING NUMBER:

**P-200**



**1 FIRST FLOOR DRAINAGE PLAN**  
1/4" = 1'-0"



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**KEYED NOTES:**  
① MAINTAIN CLEARANCE OF 10'-0" MIN  
BETWEEN HVAC INTAKES AND VENT PIPING.

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**BANK ON BUFFALO**



**NEW COMMUNITY BRANCH - NIAGARA FALLS**

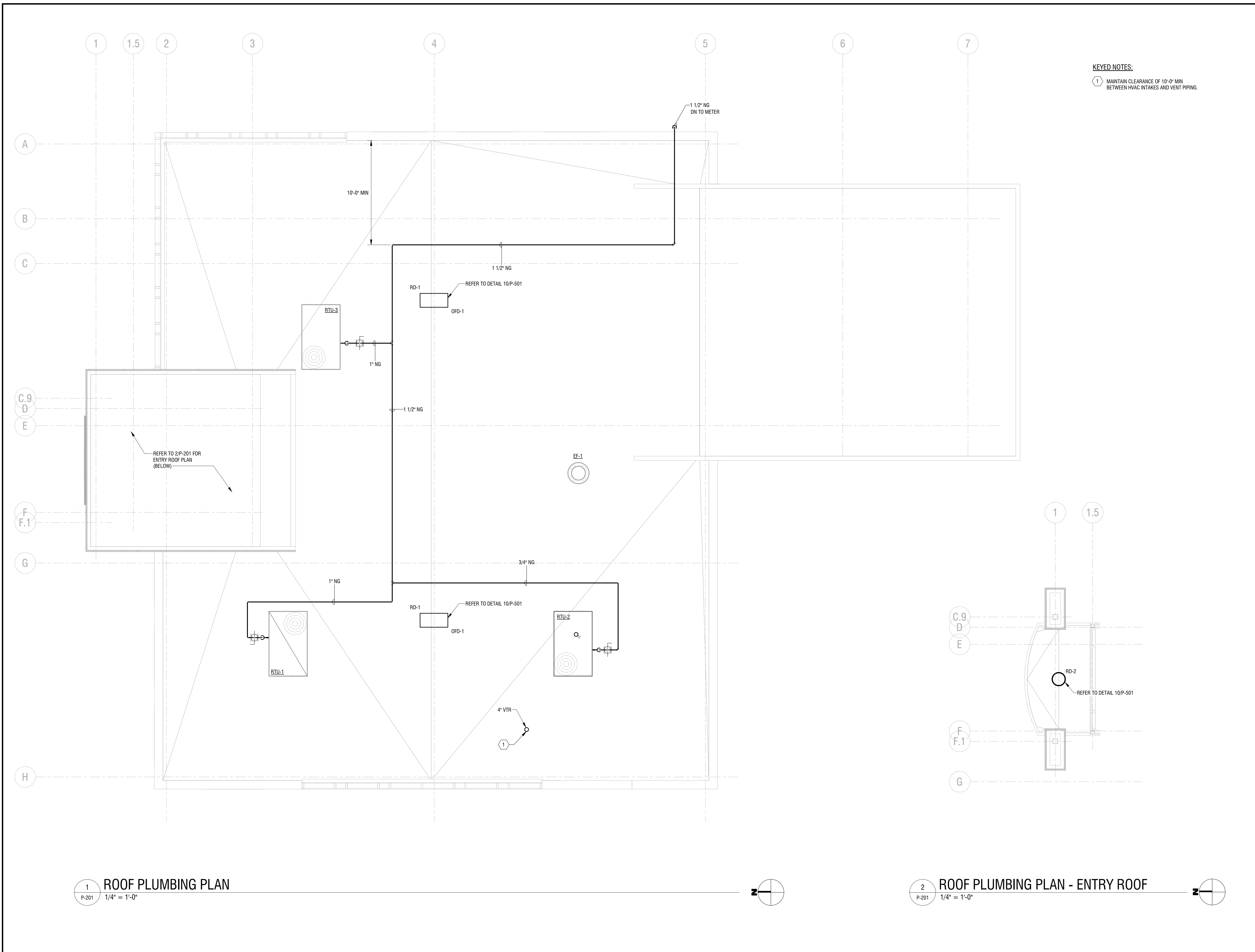
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REVIEWED BY: SAD		
ISSUED FOR: BID SET		
DATE: 25 JAN 2019		
DRAWING NAME:		

**ROOF PLUMBING PLAN**

DRAWING NUMBER:

**P-201**



**1 ROOF PLUMBING PLAN**  
P-201 1/4" = 1'-0"

**2 ROOF PLUMBING PLAN - ENTRY ROOF**  
P-201 1/4" = 1'-0"

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**BANK ON BUFFALO**



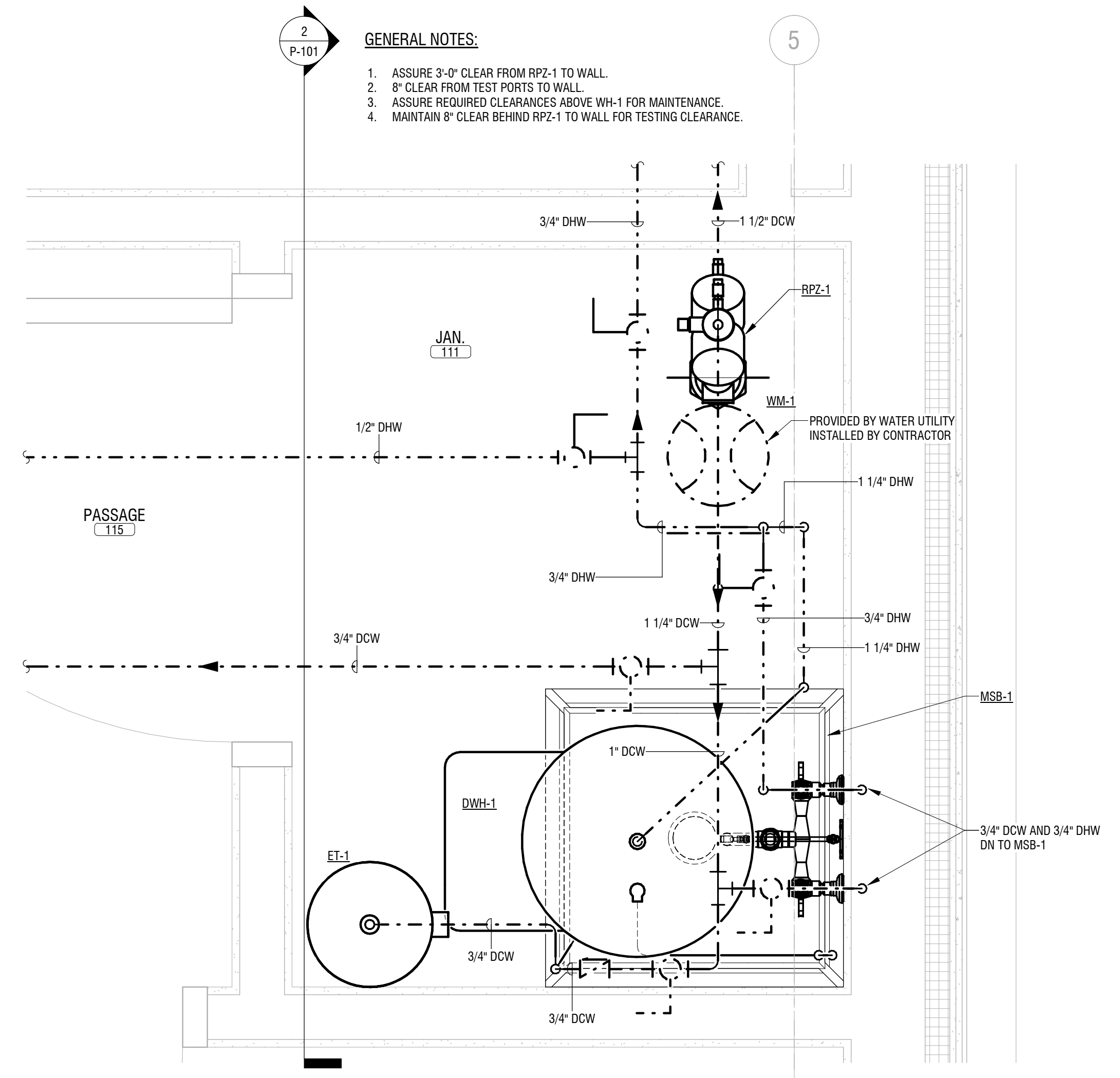
**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
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DRAWING NAME:		

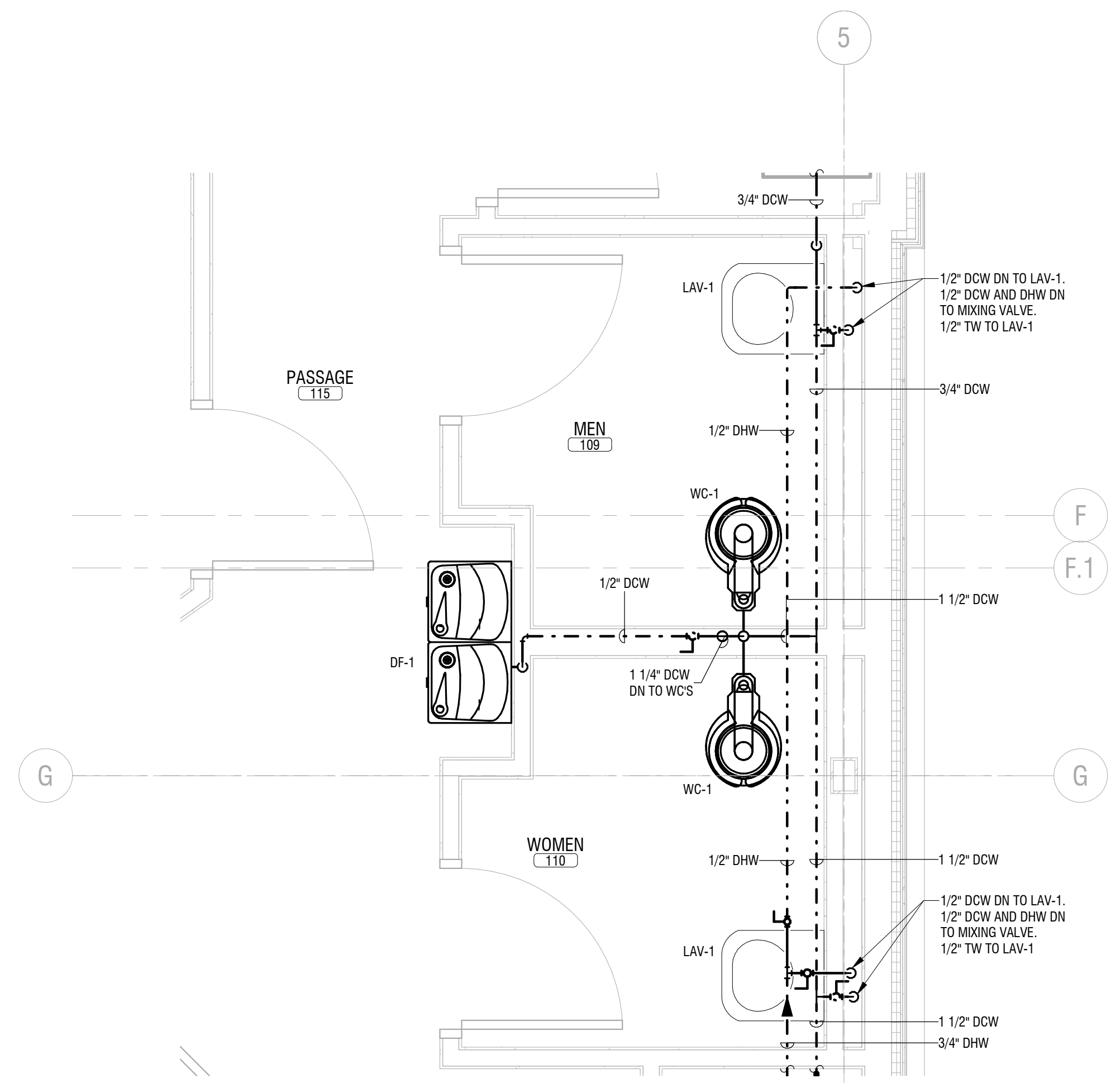
**PLUMBING ENLARGED PLANS**

DRAWING NUMBER:

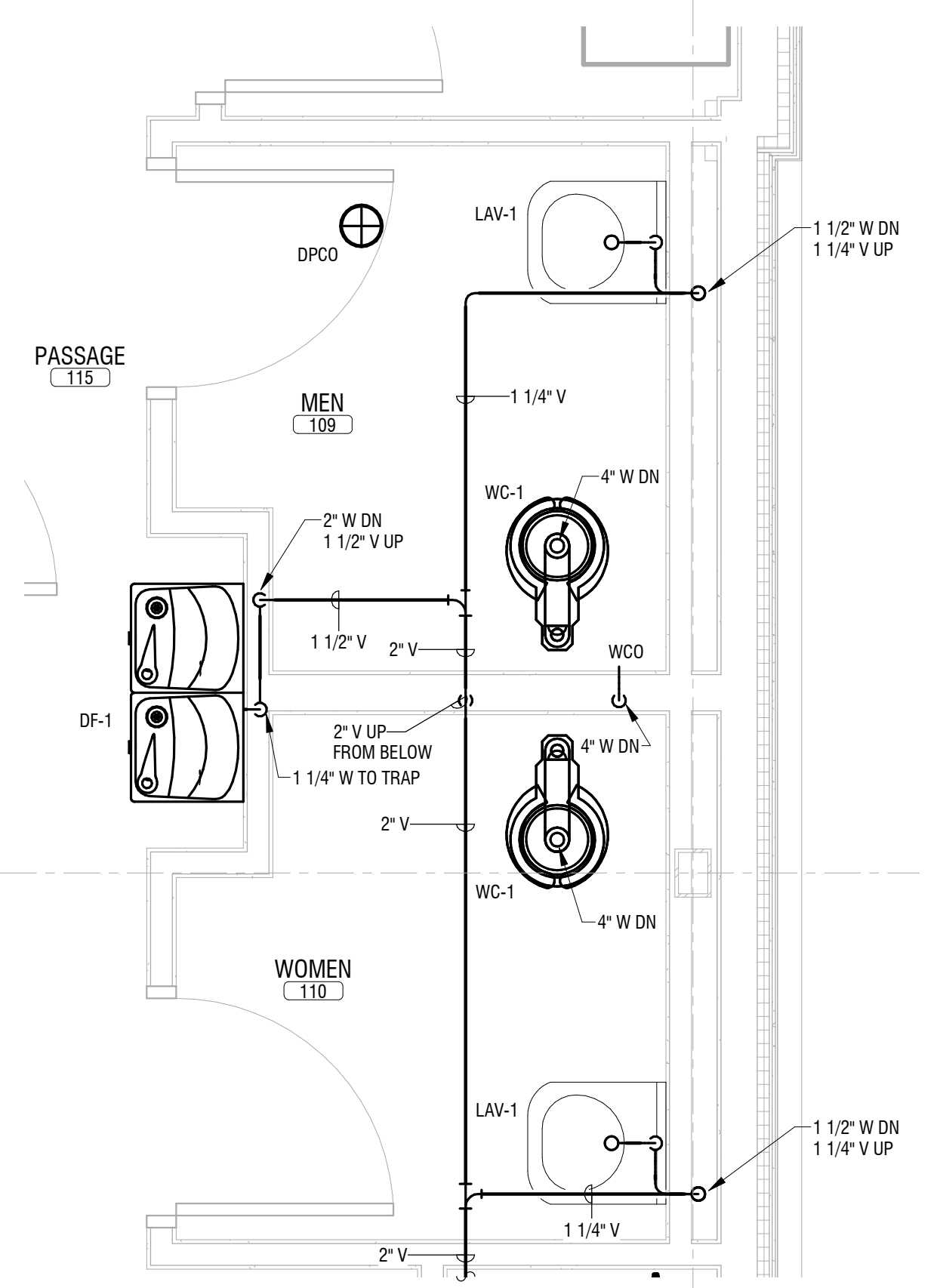
**P-401**



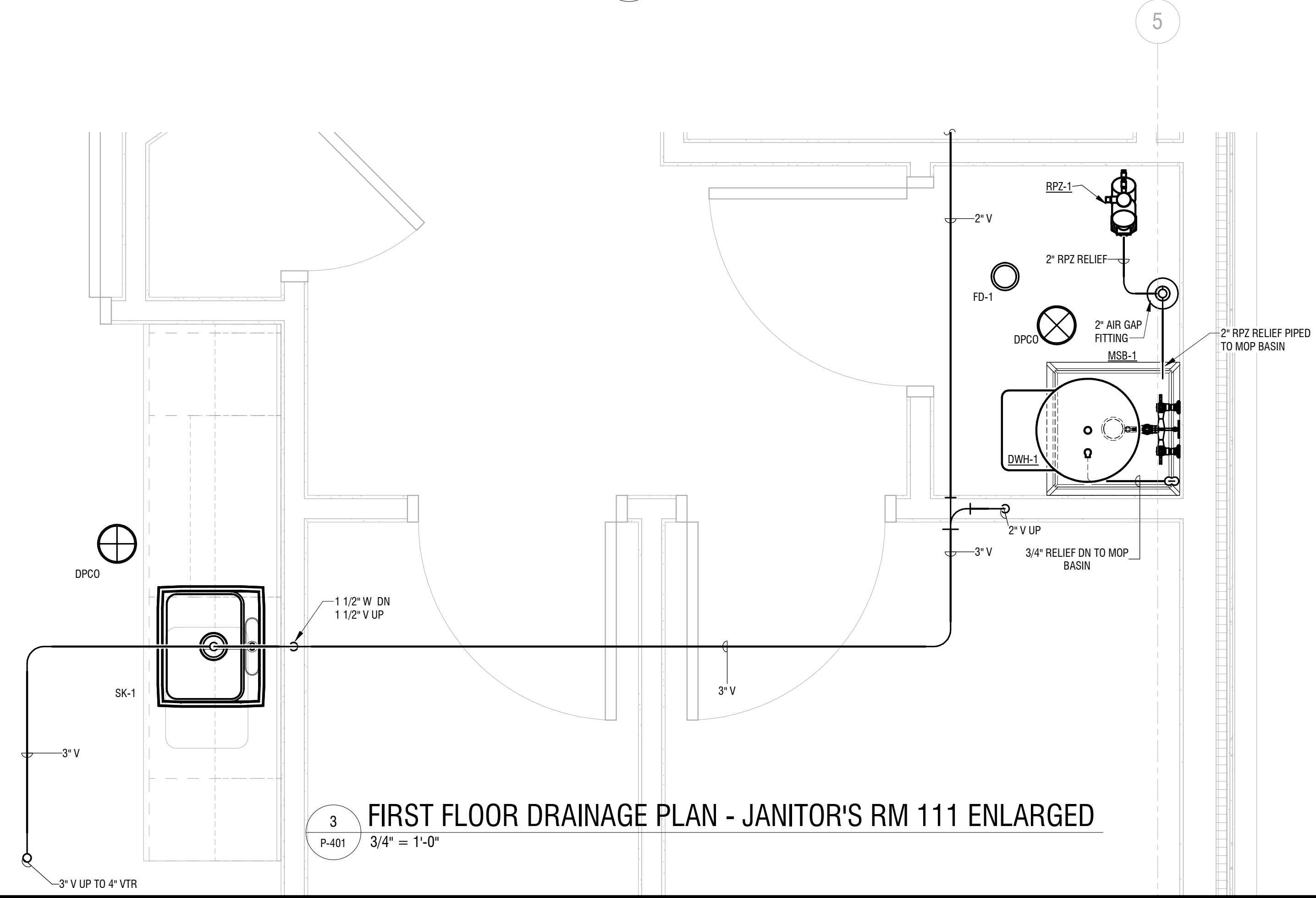
**2 FIRST FLOOR PLUMBING PLAN - JANITOR'S RM 111 ENLARGED**  
P-401 1/2" = 1'-0"



**1 FIRST FLOOR PLUMBING PLAN - TOILET ROOM ENLARGED**  
P-401 1/2" = 1'-0"



**4 FIRST FLOOR DRAINAGE PLAN - TOILET ROOM ENLARGED**  
P-401 1/2" = 1'-0"



**3 FIRST FLOOR DRAINAGE PLAN - JANITOR'S RM 111 ENLARGED**  
P-401 3/4" = 1'-0"

**GENERAL NOTES:**

1. ASSURE 3'-0" CLEAR FROM RPZ-1 TO WALL.
2. 8" CLEAR FROM TEST PORTS TO WALL.
3. ASSURE REQUIRED CLEARANCES ABOVE WH-1 FOR MAINTENANCE.
4. MAINTAIN 8" CLEAR BEHIND RPZ-1 TO WALL FOR TESTING CLEARANCE.

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**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
7121 Niagara Falls Blvd.  
Niagara Falls, NY 14304

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: **2181539**

DRAWN BY: **MMJ**

REVIEWED BY: **SAD**

ISSUED FOR: **BID SET**

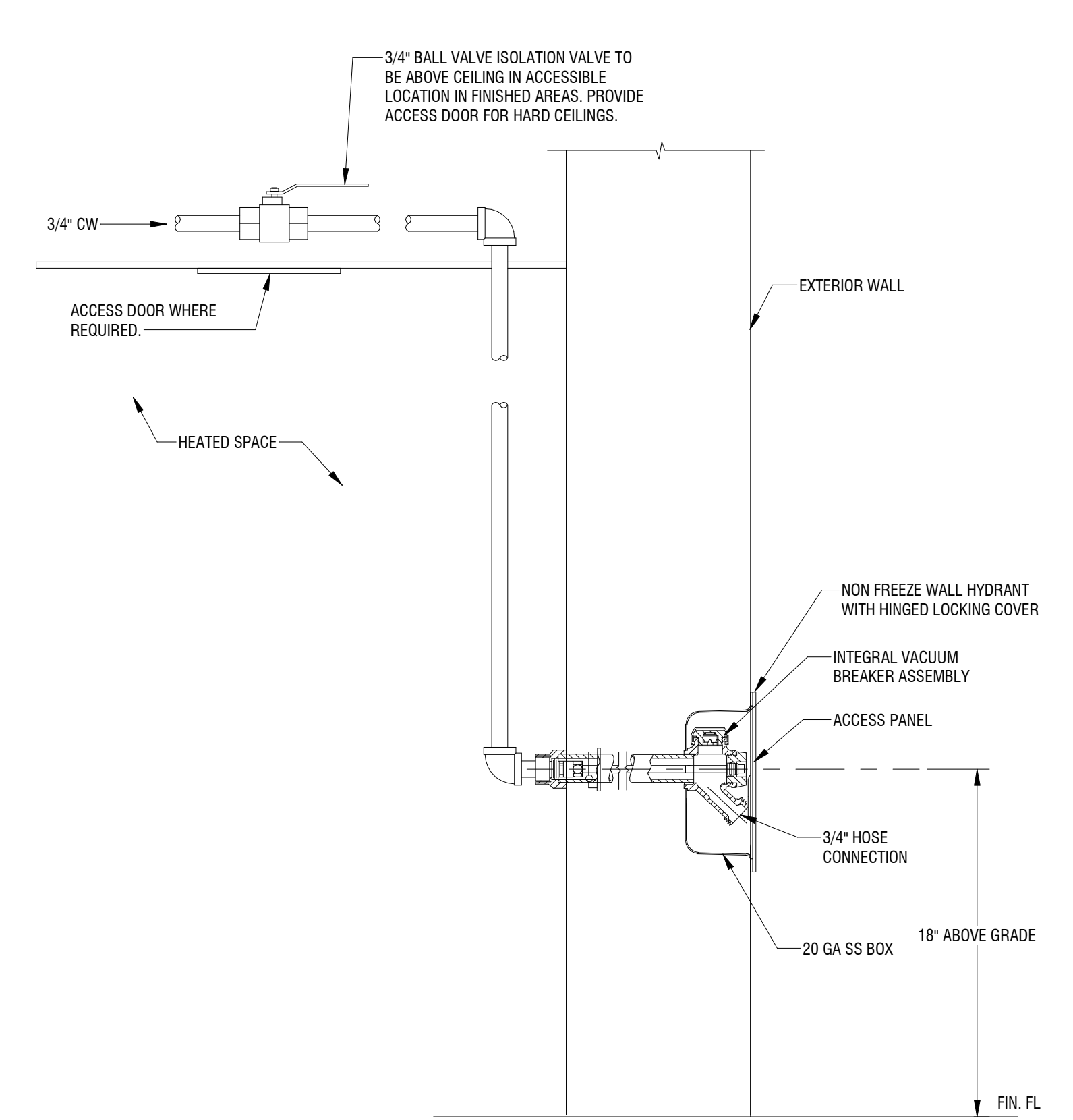
DATE: **25 JAN 2019**

DRAWING NAME:

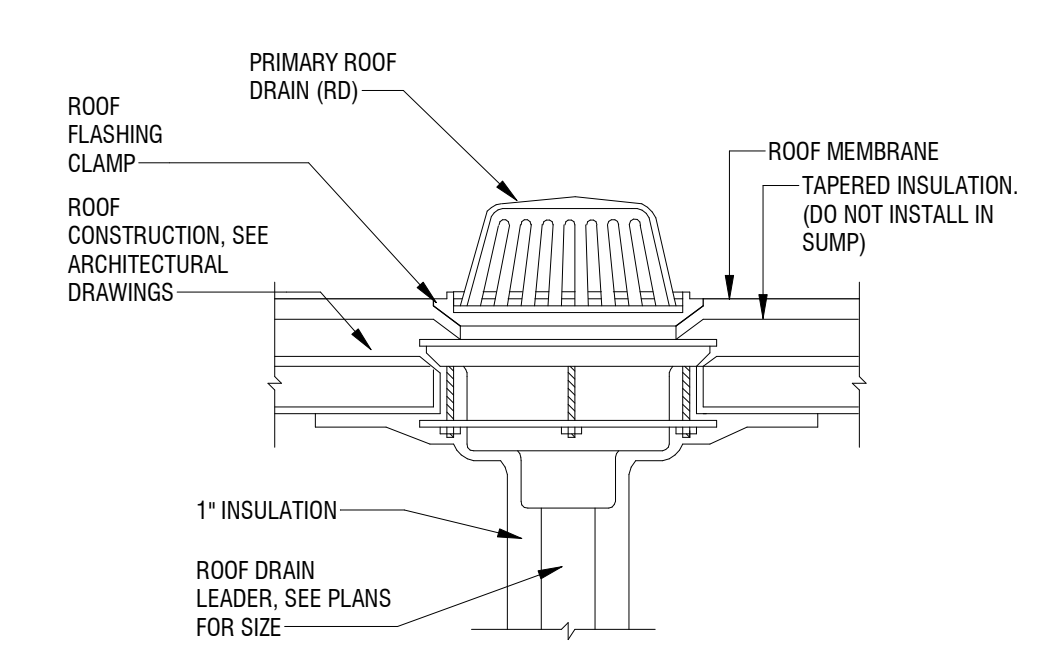
**PLUMBING DETAILS**

DRAWING NUMBER:

**P-501**

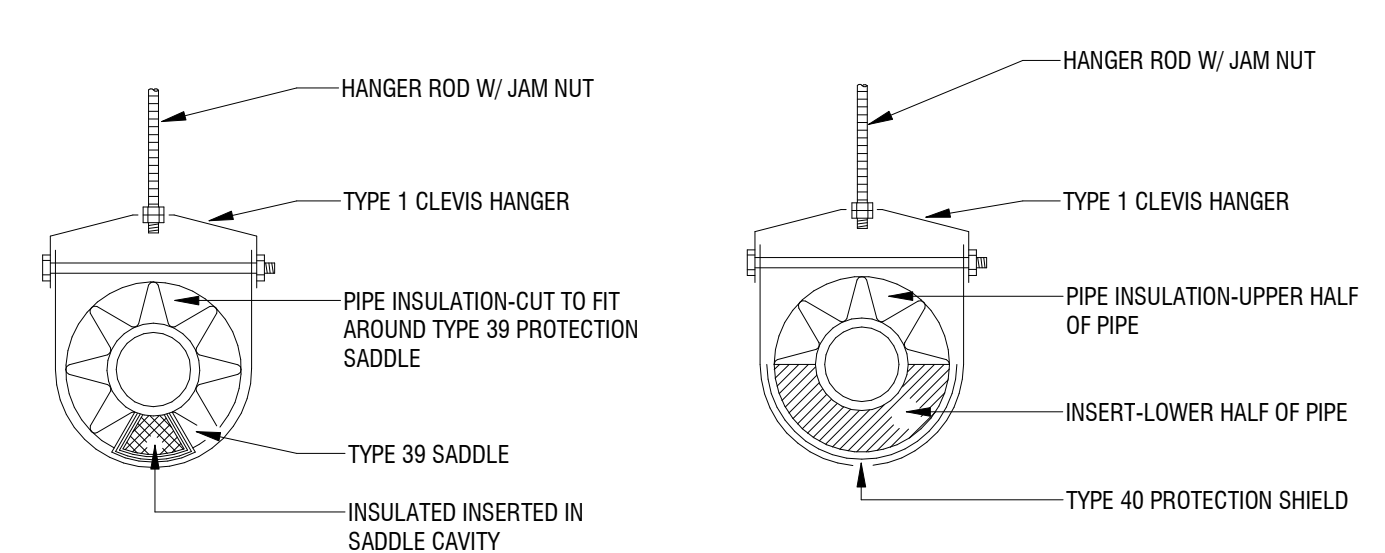


**9 TYPICAL EXTERIOR CONCEALED HOSE BIBB DETAIL**  
P-501 NOT TO SCALE



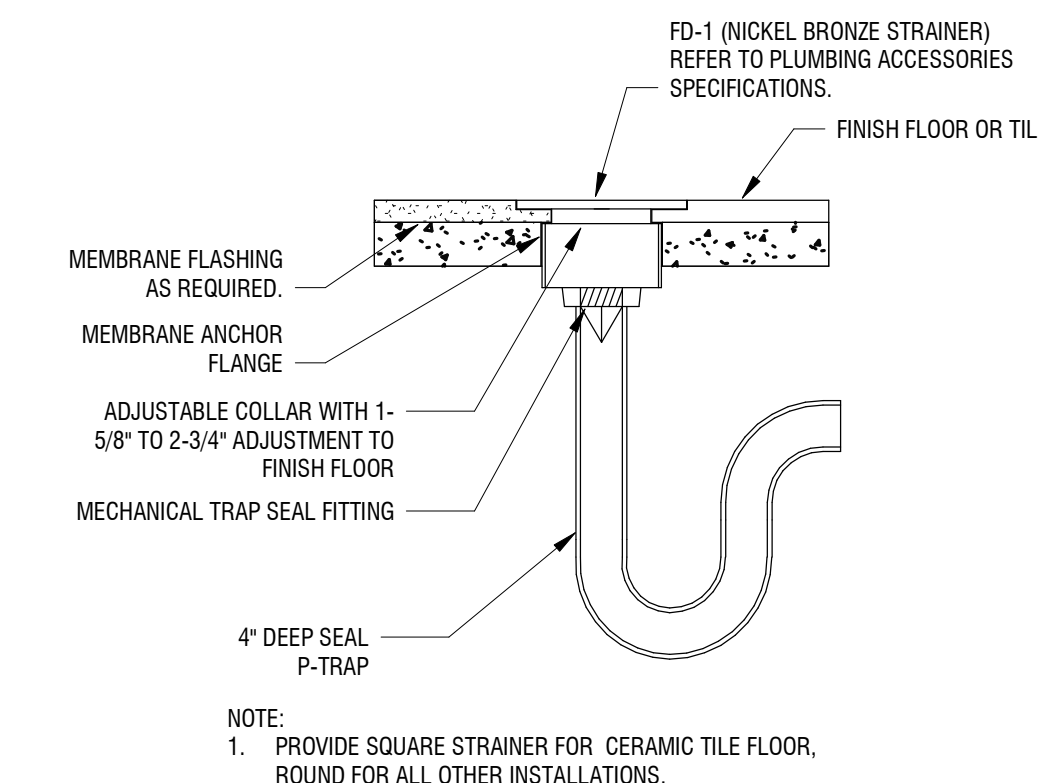
- NOTES:
- LOCATE ROOF DRAINS AT LOW POINTS OF ROOF, AS SHOWN ON PLAN.
  - SET ROOF DRAIN AND SECURE IN PLACE FOR FINAL ROOF FLASHING TO PROVIDE A WATERTIGHT SEAL BY ROOFING CONTRACTOR.
  - ROOFING CONTRACTOR MAY USE AN ALTERNATE FLASHING ARRANGEMENT PROVIDED IT HAS BEEN SUBMITTED TO AND APPROVED BY THE ARCHITECT.
  - INSULATE DRAIN BODY, OVERFLOW DRAIN AND RAIN LEADER PIPING WITH GLASS FIBER AND ASJ INSULATION.
  - OVERFLOW DRAIN IS SIMILAR.

**10 PRIMARY ROOF DRAIN DETAIL**  
P-501 NOT TO SCALE

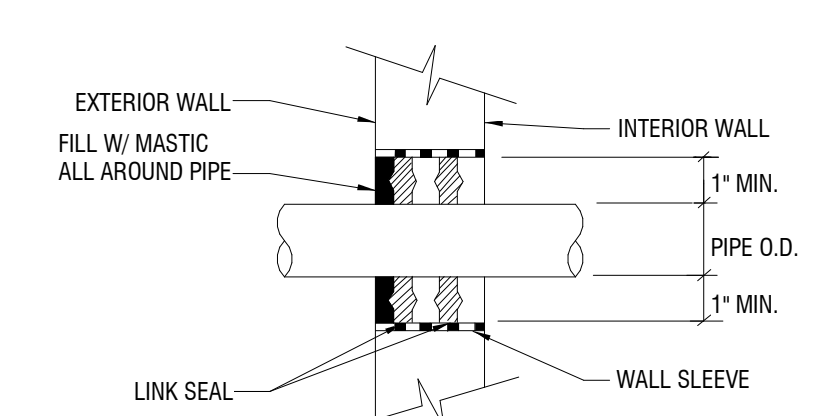


**HOT PIPE - 4" DIA. AND LARGER (60 F & HIGHER)**  
**COLD PIPE - ALL SIZES**

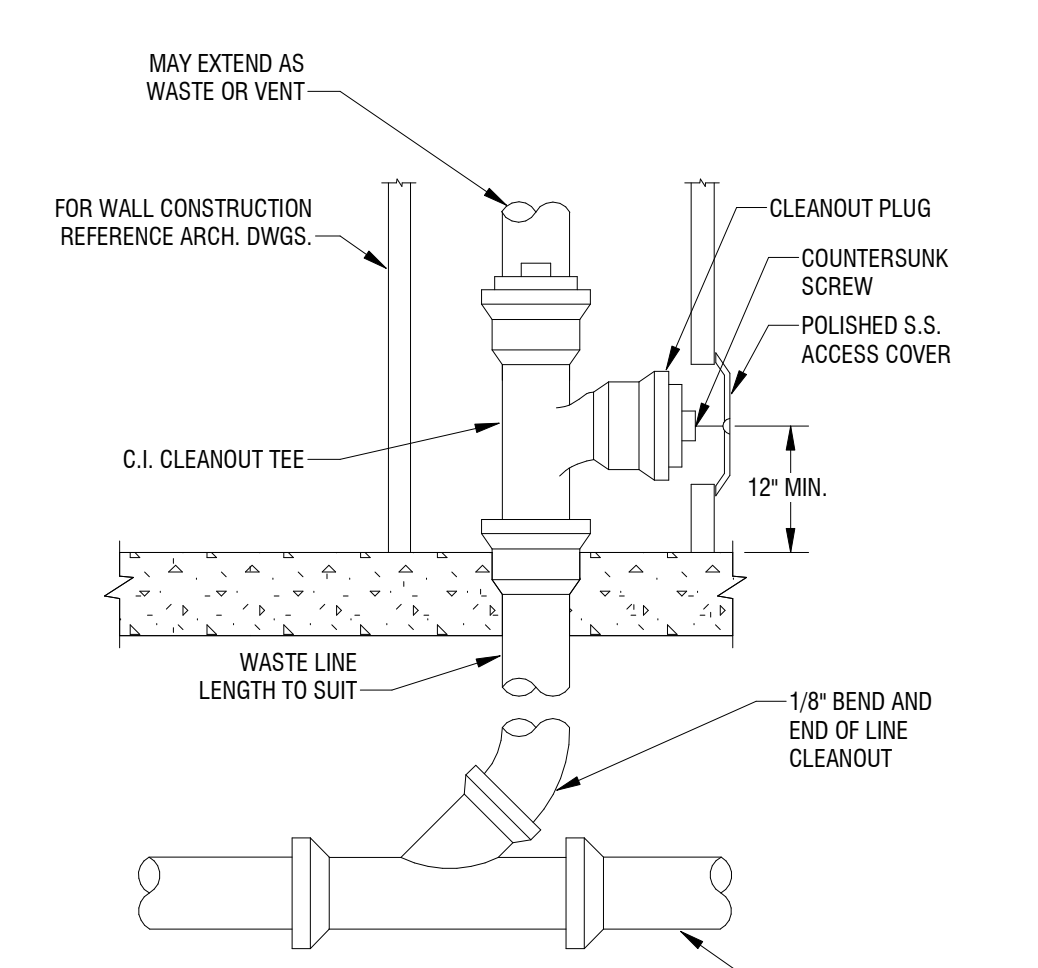
**11 PIPE HANGER WITH INSULATION DETAIL**  
P-501 NOT TO SCALE



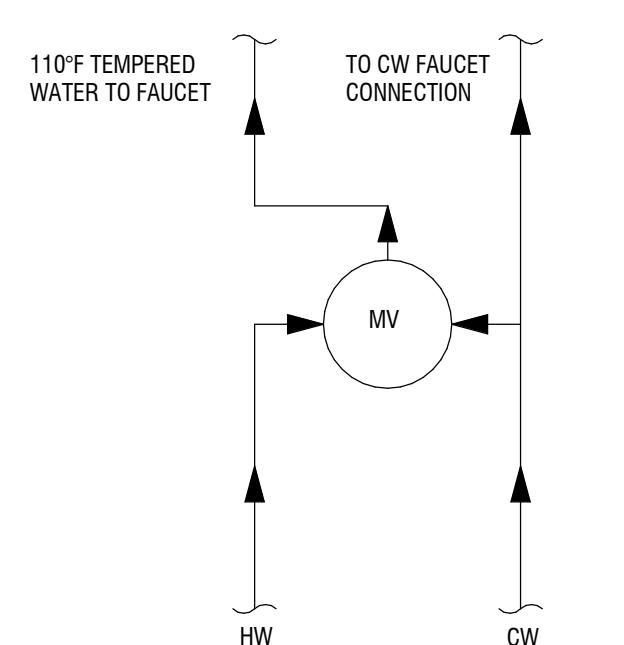
**5 FLOOR DRAIN DETAIL**  
P-501 NOT TO SCALE



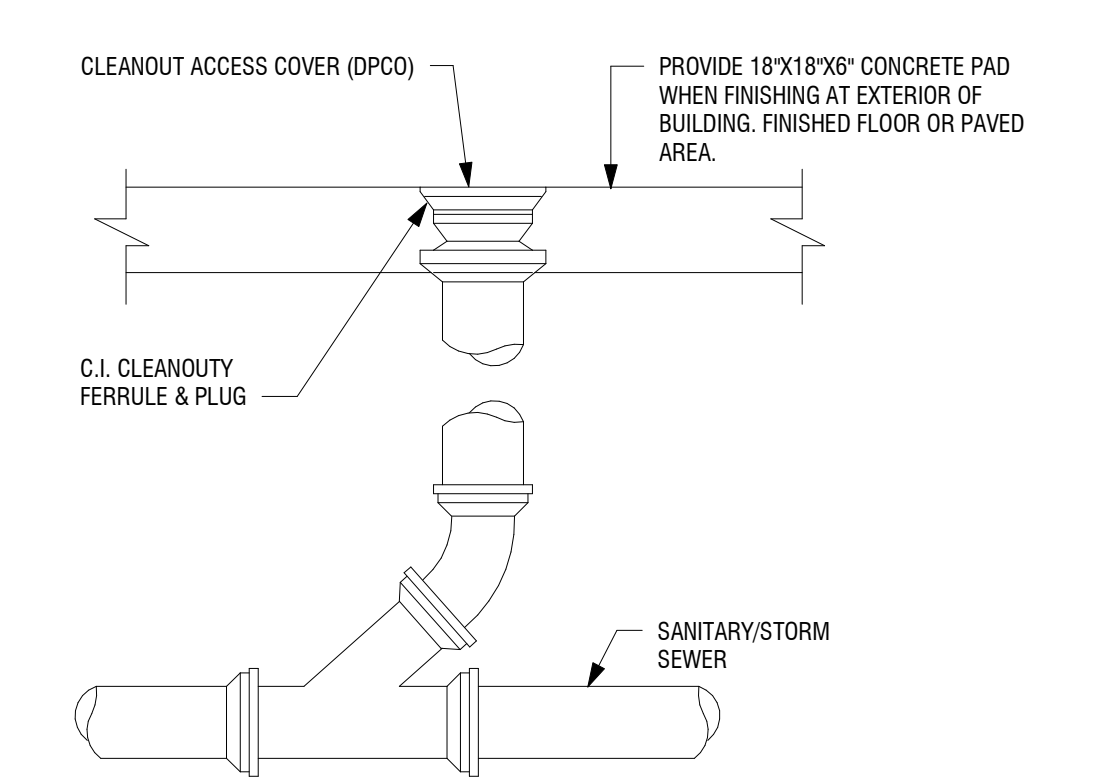
**6 EXTERIOR/FOUNDATION WALL SLEEVE DETAIL**  
P-501 NOT TO SCALE



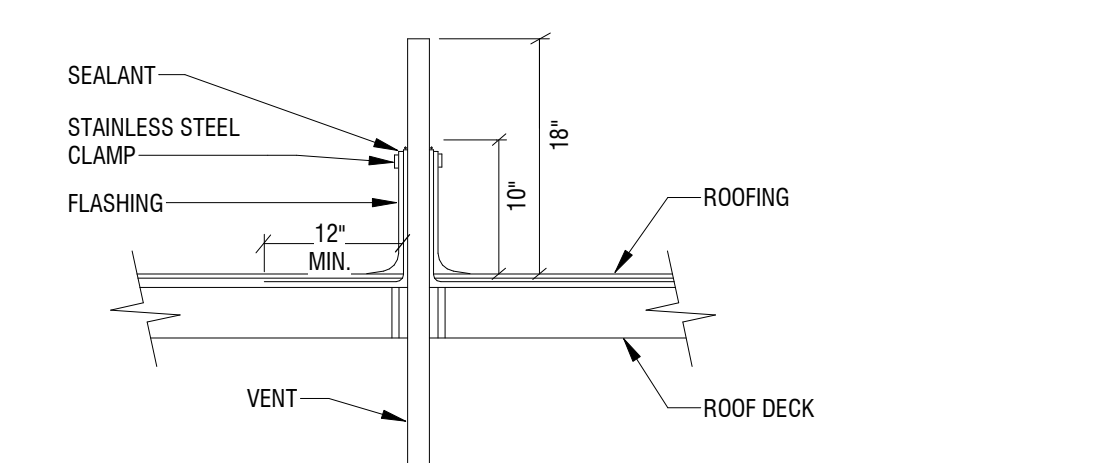
**7 WALL CLEANOUT**  
P-501 NOT TO SCALE



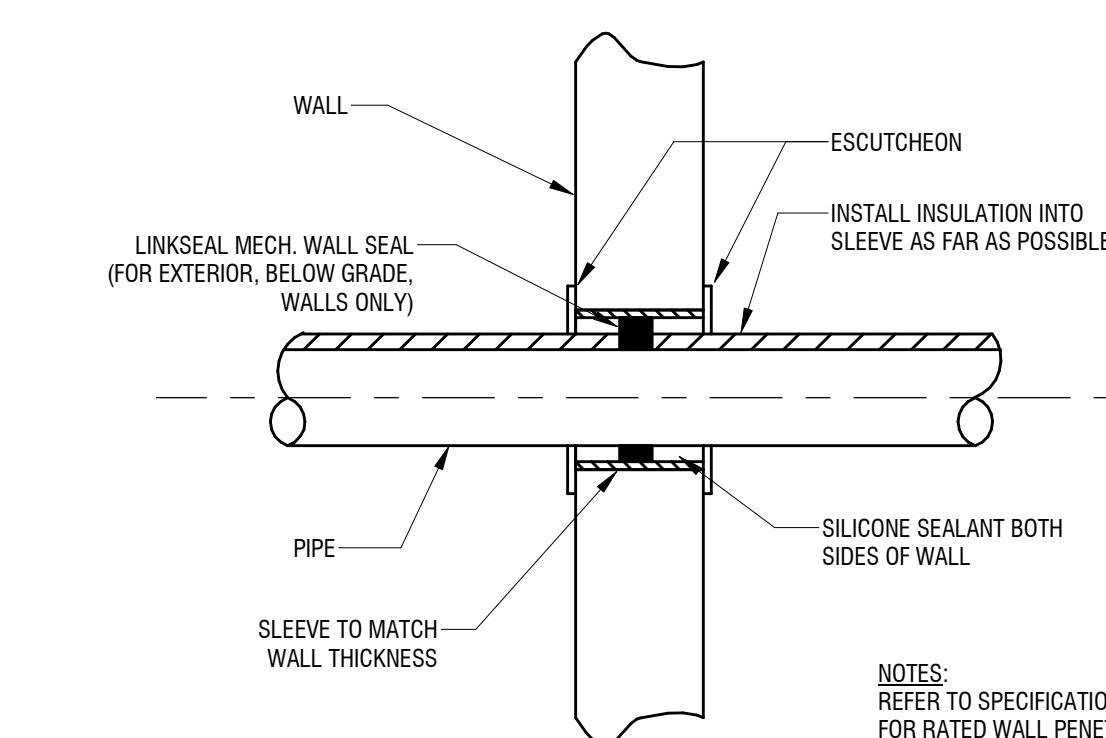
**8 LAVATORY/SINK MIXING VALVE SCHEMATIC**  
P-501 NOT TO SCALE



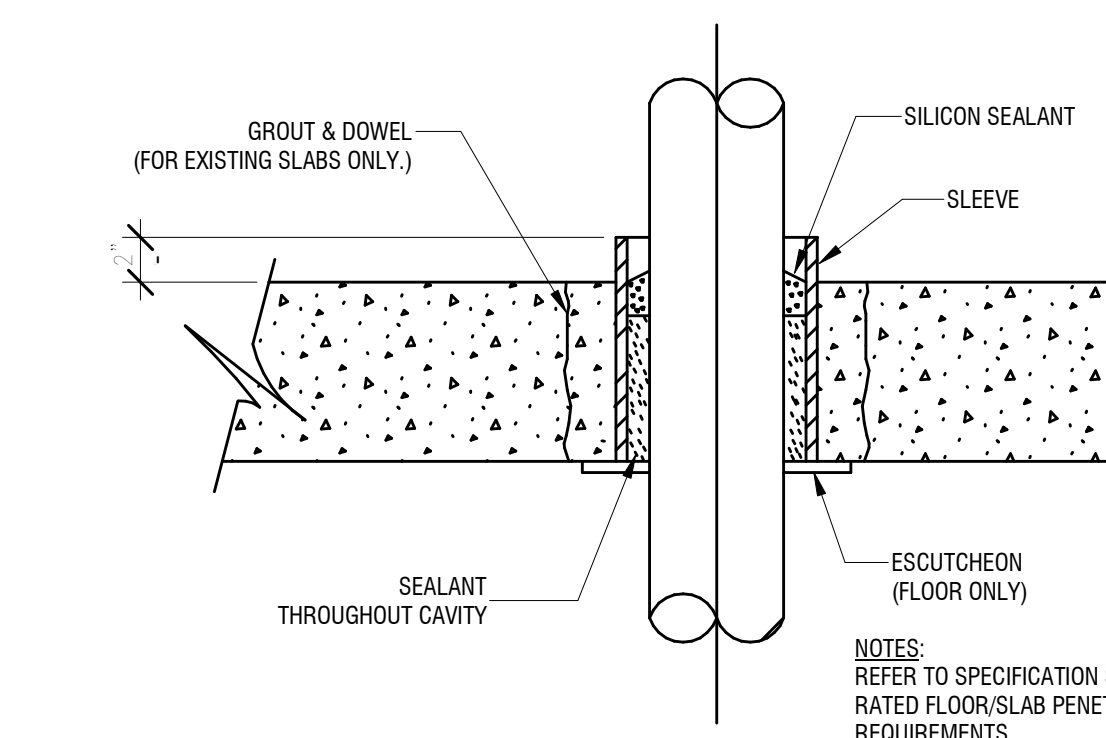
**1 DECK PLATE CLEANOUT**  
P-501 NOT TO SCALE



**2 VENT THROUGH ROOF**  
P-501 NOT TO SCALE



**3 PIPE THRU NON-RATED WALL DETAIL**  
P-501 NOT TO SCALE



**4 PIPE THRU FLOOR/SLAB DETAIL**  
P-501 NOT TO SCALE

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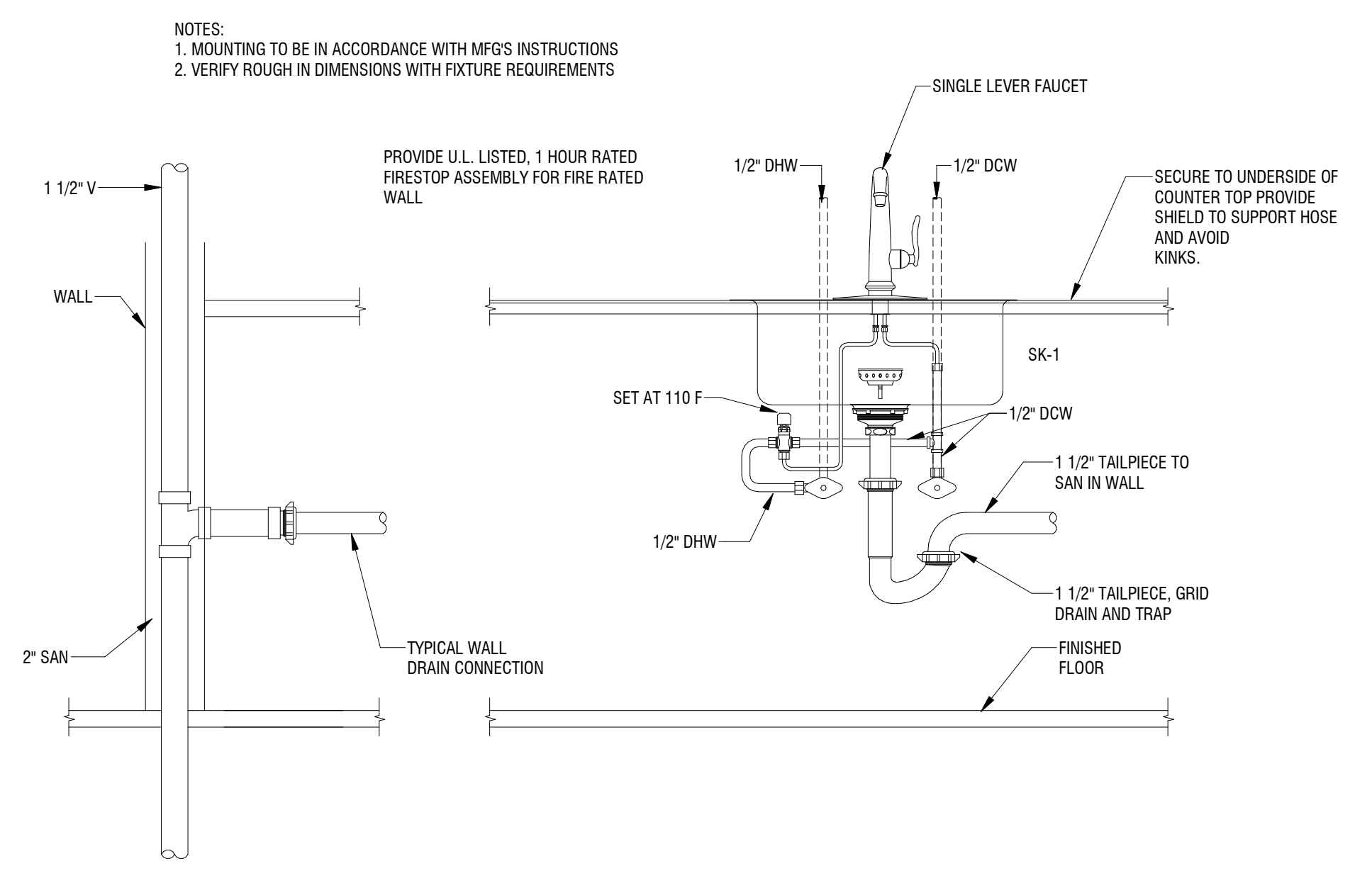
**NEW COMMUNITY BRANCH - NIAGARA FALLS**  
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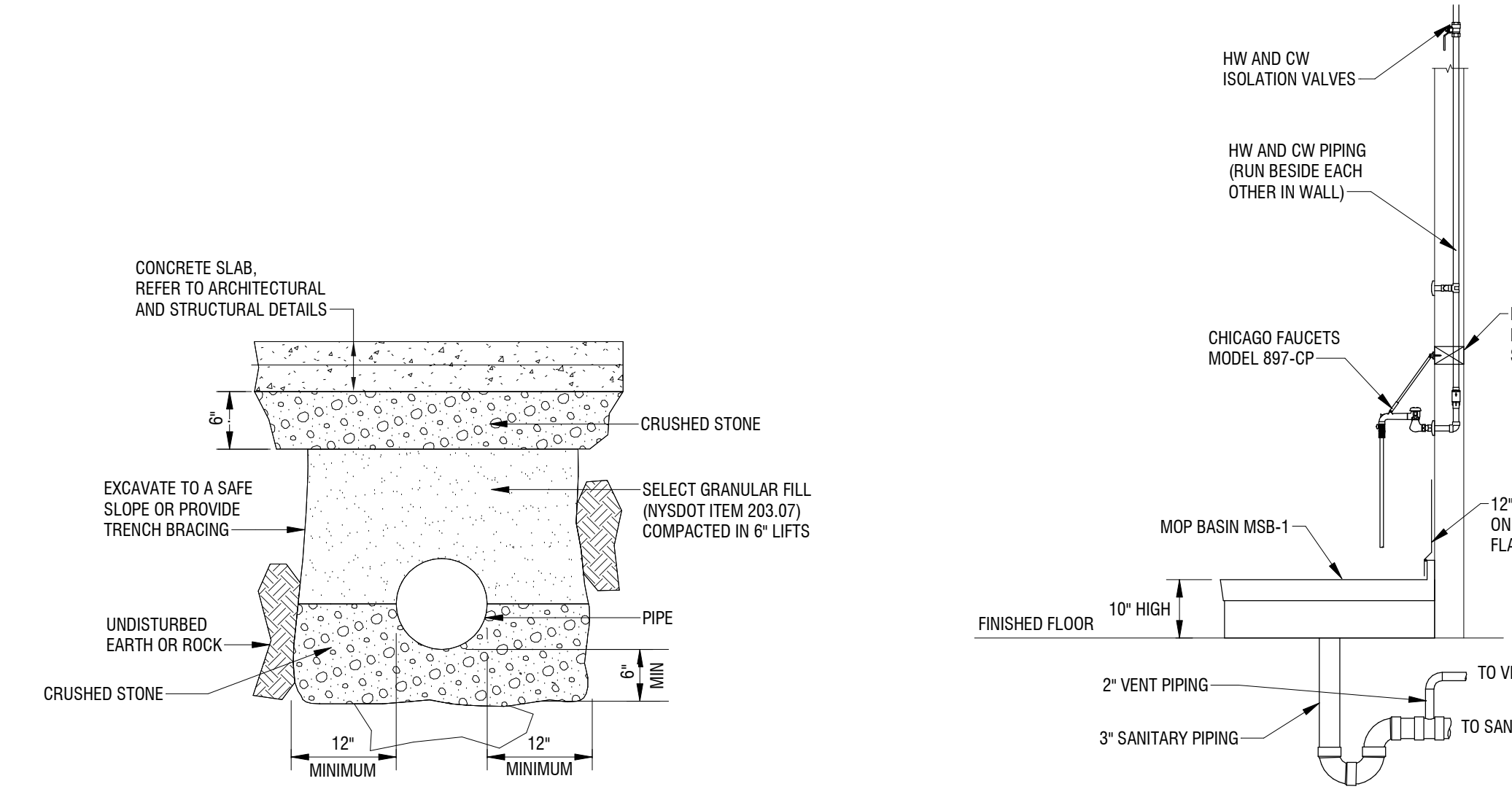
**PLUMBING DETAILS**

DRAWING NUMBER:

**P-502**

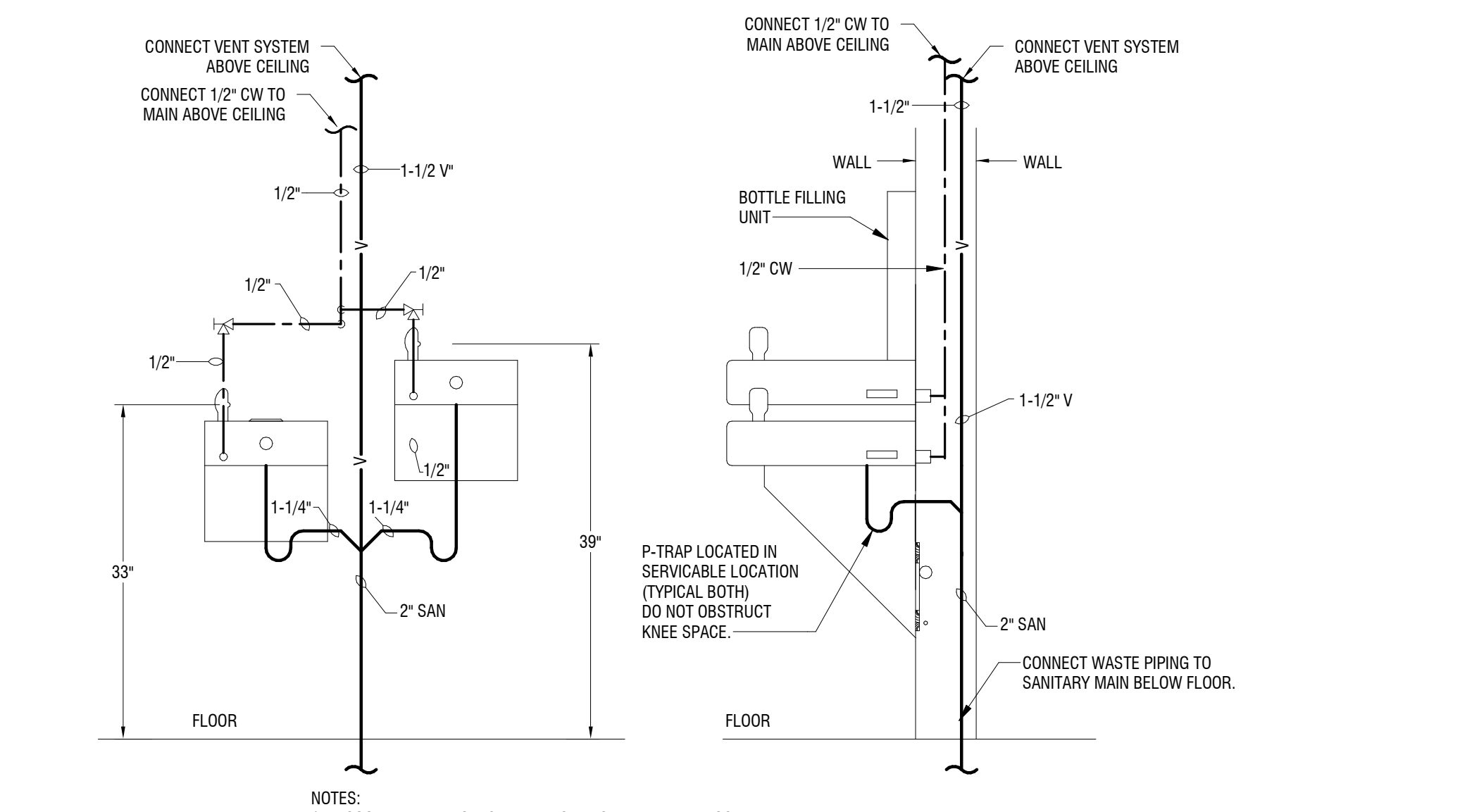


**1 SINK DRAIN AND VENT DETAIL - SINGLE FAUCET**  
P-502 NOT TO SCALE

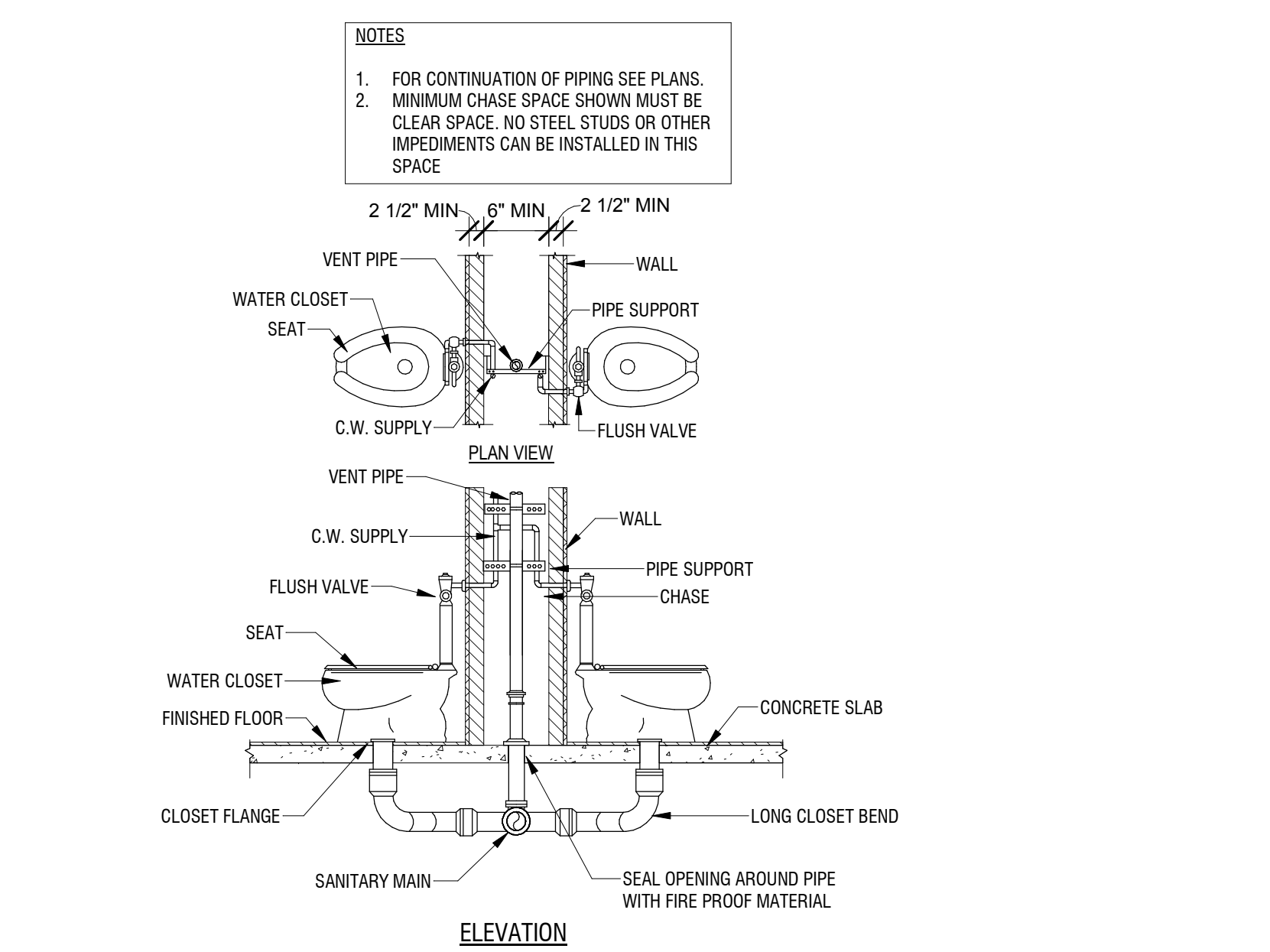


**2 MOP BASIN DETAIL**  
P-502 NOT TO SCALE

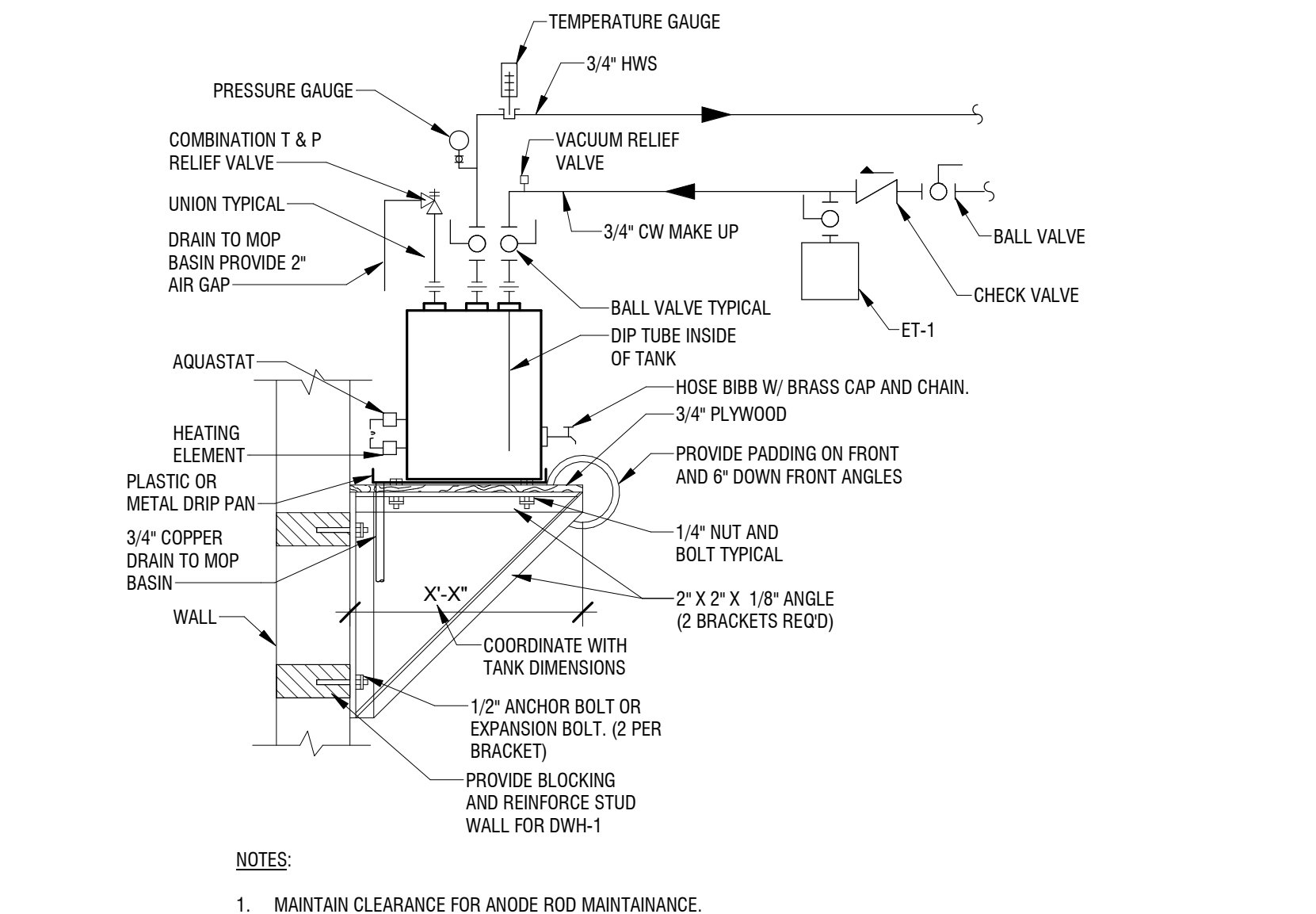
**3 PIPE TRENCH DETAIL**  
P-502 NOT TO SCALE



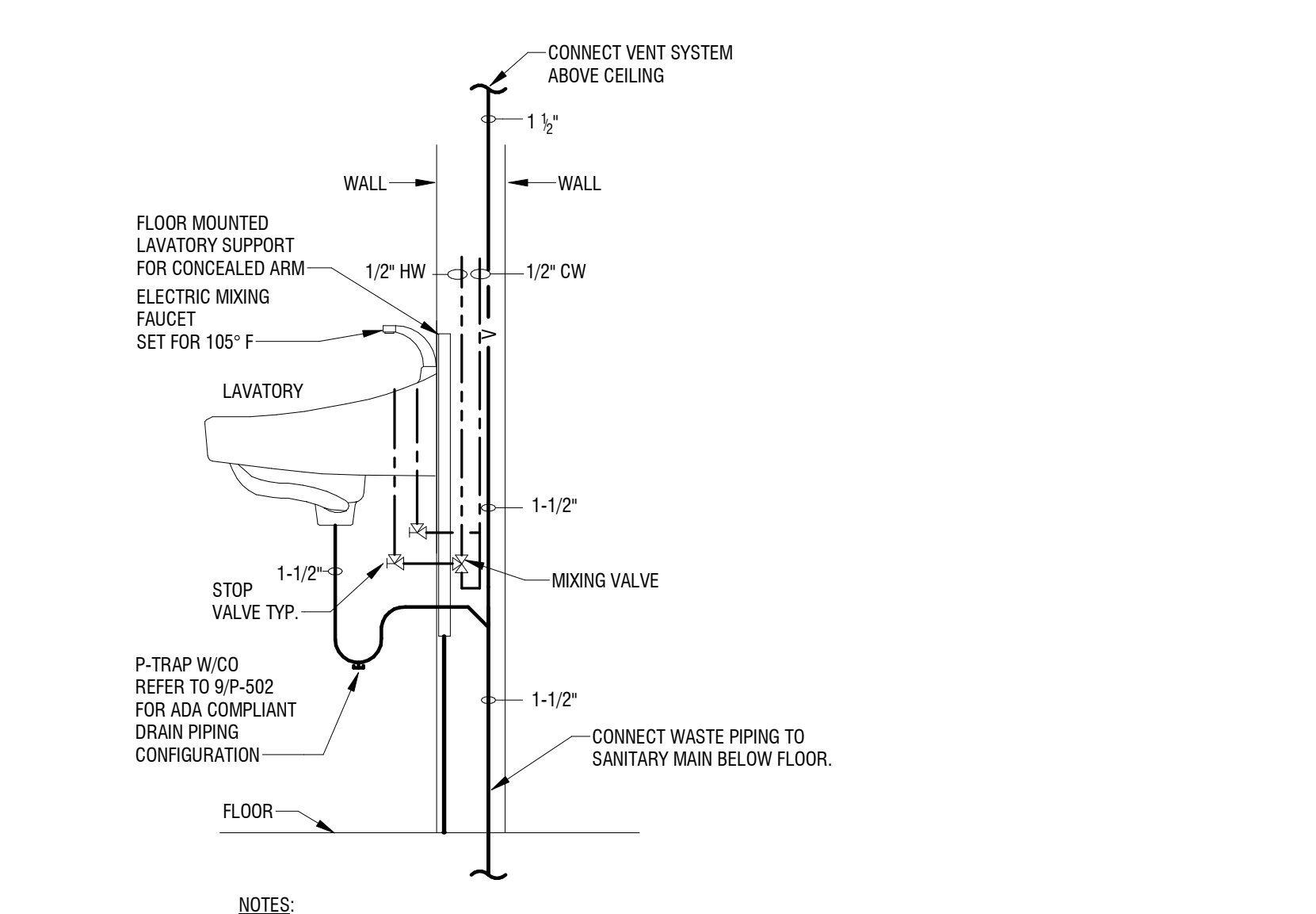
**4 DUAL HEIGHT ADA WATER COOLER W/BOTTLE FILLER**  
P-502 NOT TO SCALE



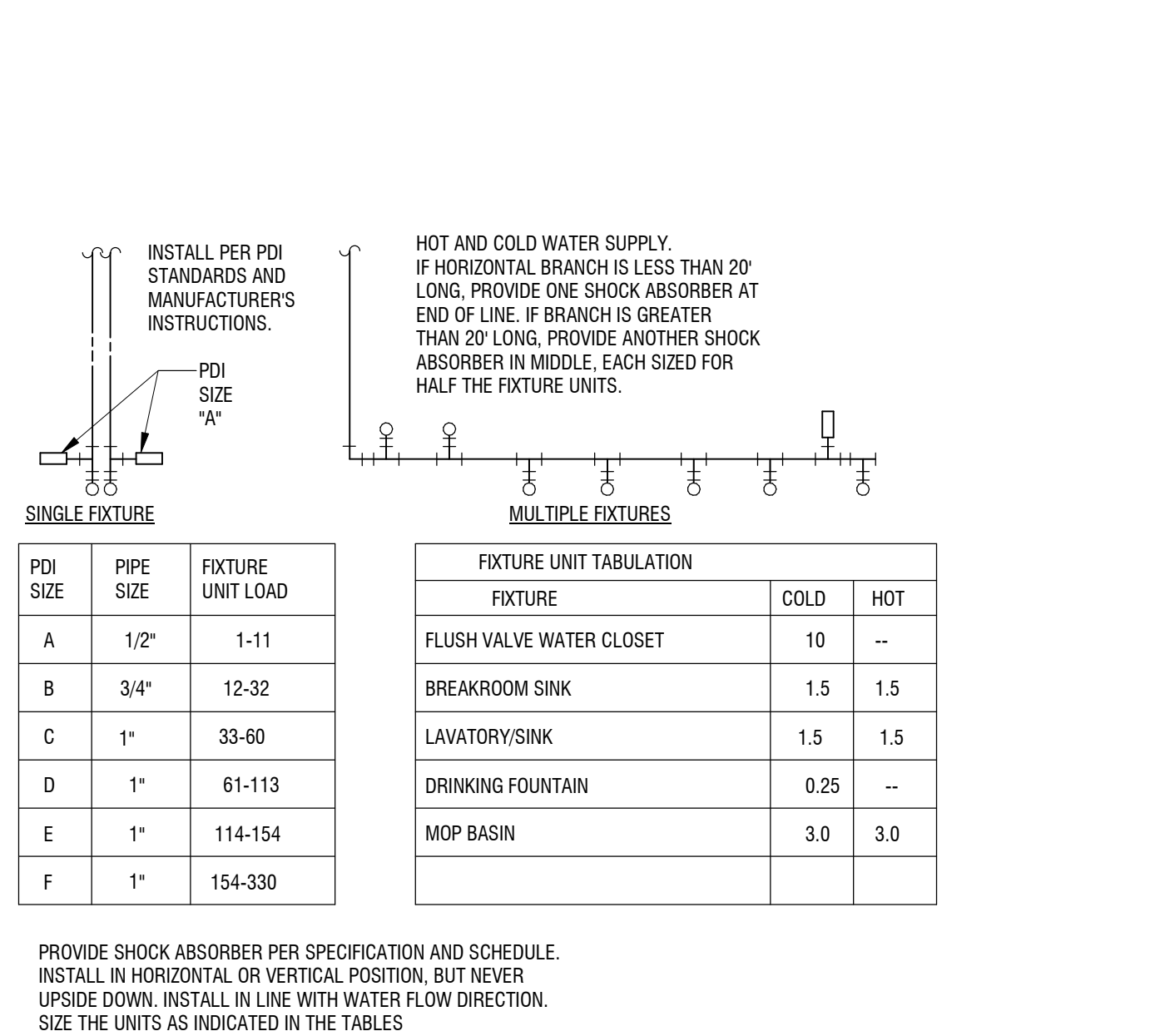
**5 BACK-TO-BACK FLOOR MOUNTED WATER CLOSET DETAIL**  
P-502 NOT TO SCALE



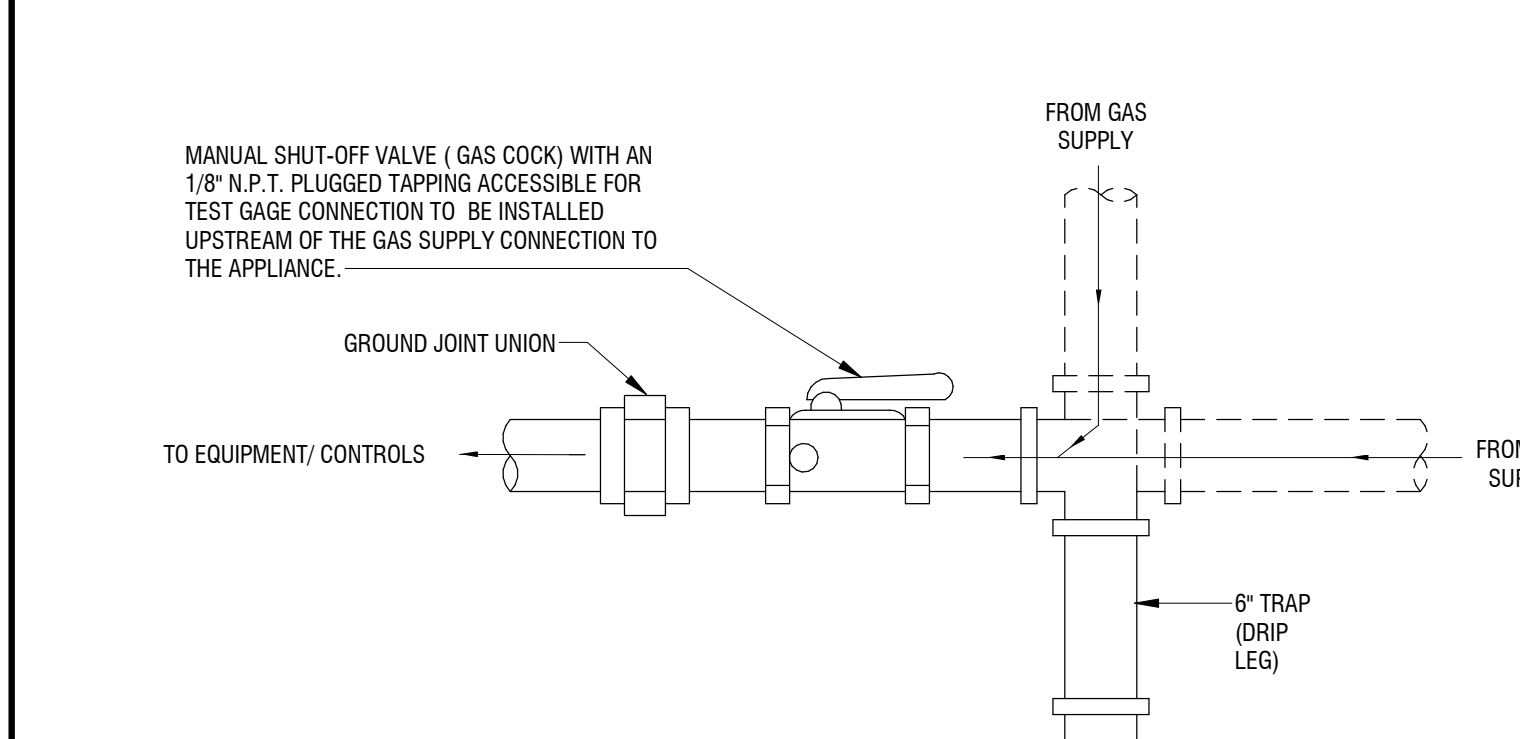
**6 WALL MOUNTED ELECTRIC WATER HEATER DETAIL**  
P-502 NOT TO SCALE



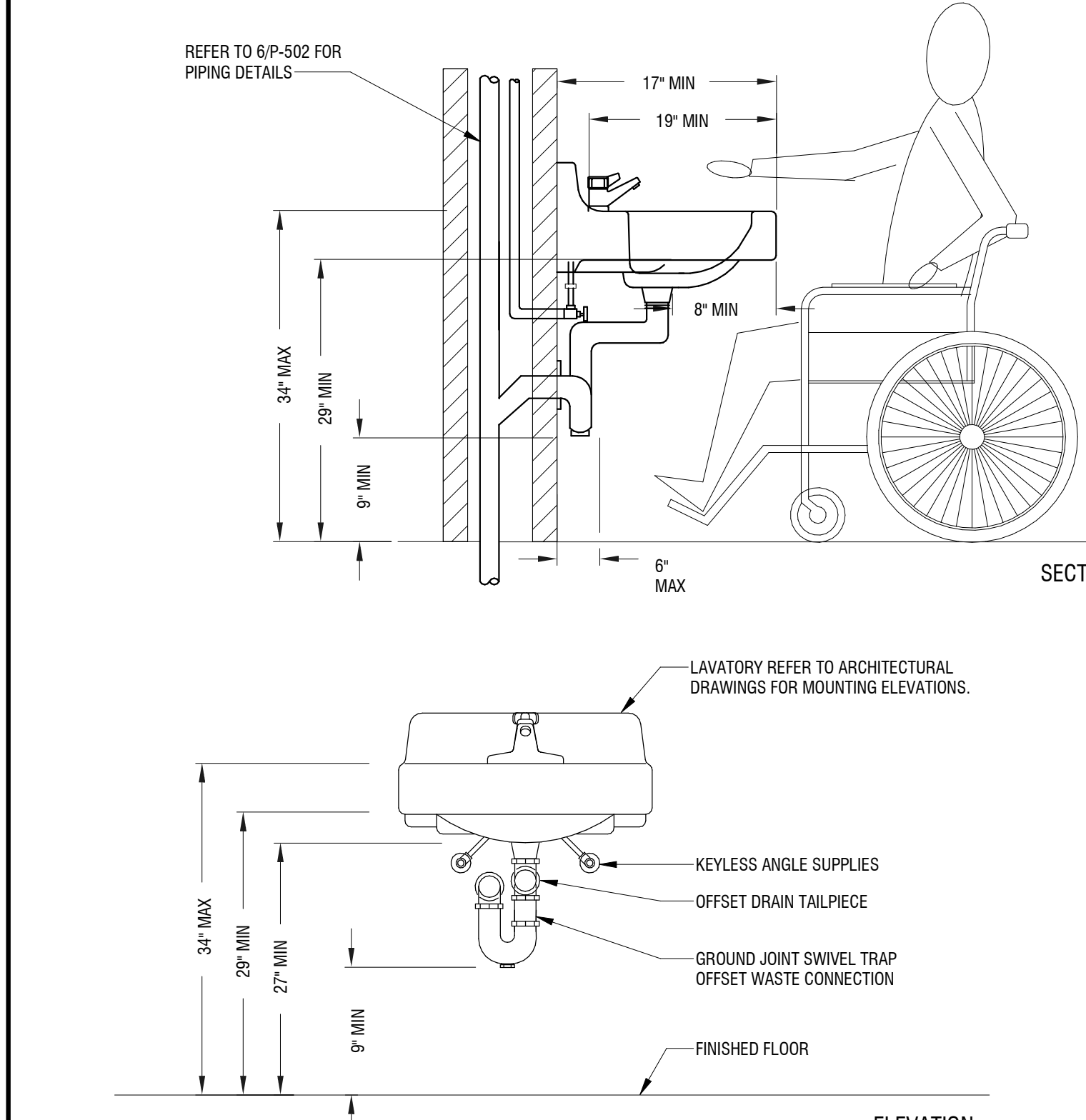
**7 LAV - W/ HW & CW SUPPLY DETAIL**  
P-502 NOT TO SCALE



**8 WATER HAMMER ARRESTERS DETAIL**  
P-502 NOT TO SCALE



**9 GAS CONNECTION TO EQUIPMENT DETAIL**  
P-502 NOT TO SCALE



**10 TYPICAL ADA WALL MOUNT LAVATORY DETAIL**  
P-502 NOT TO SCALE

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DATE: **25 JAN 2019**

DRAWING NAME:

**PLUMBING SCHEDULES**

DRAWING NUMBER:

**P-601**

**BACKFLOW PREVENTER SCHEDULE**

TAG	LOCATION	SERVICE	GPM	SIZE	PRESSURE DROP	TYPE	SHUTOFF VALVES	REMARKS	MANUFACTURER	MODEL
RPZ-1	JAN. RM 111	DOMESTIC	25.5	1 1/2"	10 PSI	REDUCED PRESSURE ZONE	1/4 TURN, BALL VALVES	1,2,3	WATTS	LF909M1-QT-S

- NOTES:**
- LEAD FREE CONSTRUCTION.
  - VERTICAL INSTALLATION, FLOW UP, PIPED TO DRAIN.
  - PROVIDE AIR GAP, 2X DRAIN SIZE ABOVE MOP BASIN.

**DOMESTIC ELECTRIC HOT WATER HEATER SCHEDULE**

TAG	LOCATION	STORAGE CAPACITY (GALLONS)	RECOVERY @ 100°F TEMP RISE	NUMBER ELEMENTS	WATTS EACH	WATTS TOTAL	ELECTRICAL (VOLTS/PH)	MAX. WORKING PRESSURE	MANUFACTURER AND MODEL	COMMENTS
DWH-1	SEE PLANS	10	25	1	6,000	6,000	208/3	150	A.O. SMITH/DSE-10-6	

- NOTES:**
- WATER HEATER TO BE HUNG FROM STEEL AND SUPPORTED BY WALL MOUNT. SEE PLANS FOR LOCATION.

**ROOF DRAIN SCHEDULE**

No.	Location	Service	Type	Frame Material	Dome Material	Style	Outlet	Diameter	Accessories	Notes	Manufacturer	Model
RD-1/OFD-1	Main Roof	Storm Water	Bi-functional	Cast Iron	Cast Iron	Low Profile	4" No-Hub	12"	---	1, 2, 3	J.R. SMITH	1850Y
RD-2	Entry Roof	Storm Water		Cast Iron	Cast Iron	Low Profile	4" No-Hub	12"	---	1, 2, 3	J.R. SMITH	1015

- NOTES:**
- PROVIDE DECK CLAMP AS REQUIRED TO SECURE ROOF DRAIN.
  - PROVIDE RING EXTENSIONS AS REQUIRED FOR ROOFING SYSTEM, FIELD VERIFY.
  - INSULATE ROOF DRAIN BODIES AND OUTLET PIPING.

**PLUMBING FIXTURE SCHEDULE**

Tag	Trim	Cold	Hot	San/W	Vent	Support	Remarks	Manufacturer	Model
WC-1	F	1"	---	4"	2"	FLOOR MTD.	ADA	ZURN	Z5695-BWL1
LAV-1	E	1/2"	1/2"	1 1/2"	1 1/2"	WALL HUNG	ADA	ZURN	Z521
SK-1	B	1/2"	1/2"	1 1/2"	1 1/2"	TOP MTD.	---	AMERICAN STANDARD	22SB.6252284S.075
DF-1	A	1/2"	---	2"	1 1/2"	WALL MTD.	ADA	ELKAY	LVRGGRNLRBWSK
FD-1	D	---	---	4"	2"	FLOOR MTD.		JAY R. SMITH	FD-2051
MSB-1	C	1/2"	1/2"	3"	2"	FLOOR MTD		ZURN	Z1996-24
HB-1	G	1/2"	---	---	---	WALL MTD.	---	J.R. SMITH	5509-QTR

- PLUMBING FIXTURE TRIM**
- WALL MOUNTED, DUAL HEIGHT, WITH ELECTRONIC BOTTLE FILLING STATION. STAINLESS STEEL. VANDAL RESISTANT BUBBLER. FILTER CERTIFIED FOR NSF 42 AND 53, 120 VAC, 5.5A.
  - DECK MOUNTED, CHROME PLATED CAST BRASS, MANUAL FAUCET, HIGH ARC, PULL DOWN, SINGLE HANDLE FAUCET SIMILAR TO AMERICAN STANDARD 7074.300.002. MECHANICAL MIXING VALVE SIMILAR TO AMERICAN STANDARD 021943.0070A.000. STRAINERS SHALL BE 304 STAINLESS STEEL BASKET AND BODY WITH FLEX STEM AND RUBBER STOPPER WITH 1-1/2" CHROME PLATED CAST BRASS TAILPIECE, SIMILAR TO JUST MODEL J-35. 1-1/2" x 1-1/2" CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG AND CHROME PLATED TUBING TO WALL WITH SET-SCREW ESCUTCHEON. SIMILAR TO McGUIRE MODEL 8912. PROVIDE CHROME PLATED CAST BRASS SUPPLIES WITH LOOSE-KEY ANGLE STOP AND SET-SCREW ESCUTCHEON.
  - WALL MOUNTED CHROME PLATED FAUCET WITH WALL BRACE, VACUUM BREAKER AND HOSE THREADED OUTLET SIMILAR TO ZURN OPTION "Z1996-5P". STAINLESS STEEL MOP HANGER WITH THREE (3) RUBBER GRIPS SIMILAR TO ZURN OPTION "Z1996-MH". 3/8" FILLER HOSE WITH STAINLESS STEEL WALL HANGER WITH SINGLE RUBBER GRIP SIMILAR TO ZURN OPTION "Z1996-HH" LONG STAINLESS STEEL WALL GUARD SIMILAR TO ZURN OPTION "Z1996-WG".
  - CAST IRON DEEP SEAL P-TRAP, AND MECHANICAL TRAP SEALER, SMITH QUAD CLOSE.
  - SINGLE HOLE, RIGHT SIDE SOAP HOLE PUNCH, DECK MOUNTED CHROME PLATED CAST BRASS 7" RIGID SPOUT WITH 1.5 GPM VANDAL RESISTANT AERATOR, ADA COMPLIANT HARDWIRED SENSOR FAUCET SIMILAR TO ZURN MODEL Z6913-CWB. THERMOSTATIC MIXING VALVE SIMILAR TO ZURN P6900-MV. POWER CONVERTER P6000-HWB. CHROME PLATED CAST BRASS GRID STRAINER WITH 1-1/4" TAILPIECE, ADA COMPLIANT, SIMILAR TO ZURN MODEL Z6746-PC. CHROME PLATED CAST BRASS, 1-1/4" x 1-1/2" P-TRAP WITH CLEANOUT PLUG AND TUBING TO WALL WITH SET-SCREW ESCUTCHEON, SIMILAR TO ZURN MODEL Z6700-PC. CHROME PLATED CAST BRASS SUPPLIES WITH LOOSE KEY ANGLE STOP AND SET-SCREW ESCUTCHEON. PROVIDE TRAP AND SUPPLY COVERING TO MEET ADA REQUIREMENTS, SIMILAR TO "PRO-WRAP". FLOOR MOUNTED CARRIER.
  - EXPOSED, CHROME PLATED DIAPHRAGM TYPE FLUSH VALVE WITH HARDWIRED SENSOR, 1.28 GPF, TOP SPUD BAK-CHEK ANGLE STOP AND SET SCREW ESCUTCHEON, SIMILAR TO ZURN ZEM56200-S. POWER CONVERTER P6000-HWB. EXTRA HEAVY WEIGHT INJECTION MOLDED SOLID PLASTIC ELONGATED SEAT WITH OPEN FRONT. LESS COVER AND STAINLESS STEEL SELF SUSTAINING CHECK HINGES, SIMILAR TO ZURN Z595S-EL. CAST IRON OR HEAVY CAST BRASS FLOOR FLANGE WITH ANCHOR BOLTS. PROVIDE APPROPRIATE CARRIER FOR PIPING ARRANGEMENT AND ADAPTERS.
  - 3/4" HOSE CONNECTION, INTERGRAL VACUUM BREAKER, STAINLESS STEEL LOCKABLE RECESSED BOX SIMILAR TO J.R. SMITH 5509-QTR. PROVIDE ISOLATION VALVE AND CEILING ACCESS DOOR.

**HANGER SCHEDULE**

MATERIAL	MAX. HORIZONTAL SPACING (FT)	MAX. VERTICAL SPACING (FT)	NOTES
CAST IRON PIPE	5	15	1
COPPER TUBING, 1-1/4" DIAMETER AND SMALLER	6	10	
COPPER TUBING, 1-1/2" DIAMETER AND LARGER	10	10	
CPVC TUBING, 1" DIAMETER AND SMALLER	3	10	2
CPVC TUBING, 1-1/4" DIAMETER AND LARGER	4	10	2
STEEL PIPE	12	15	
PVC PIPE	4	10	2

- NOTES:**
- MAXIMUM HORIZONTAL SPACING OF CAST IRON HANGERS SHALL BE INCREASED TO 10 FEET WHERE 10-FOOT LENGTHS OF PIPE ARE INSTALLED.
  - MID-STORY GUIDE FOR SIZES 2" AND SMALLER.