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MEP ENGINEER	
COMPANY NAME:	JCAA CONSULTING ENGINEERS LLC
CONTACT NAME:	PATRICK LEONARD
ADDRESS:	4100 WADSWORTH BLVD, WHEAT RIDGE, CO 80033
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STRUCTURAL ENGINEER	
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COMPANY NAME:	KFW ENGINEERS + SURVEYING
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PHONE:	(210) 979-8444 x113
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EMAIL:	-

SHERWIN WILLIAMS

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78015

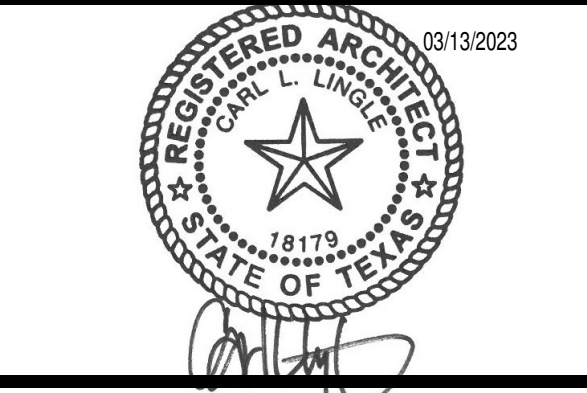


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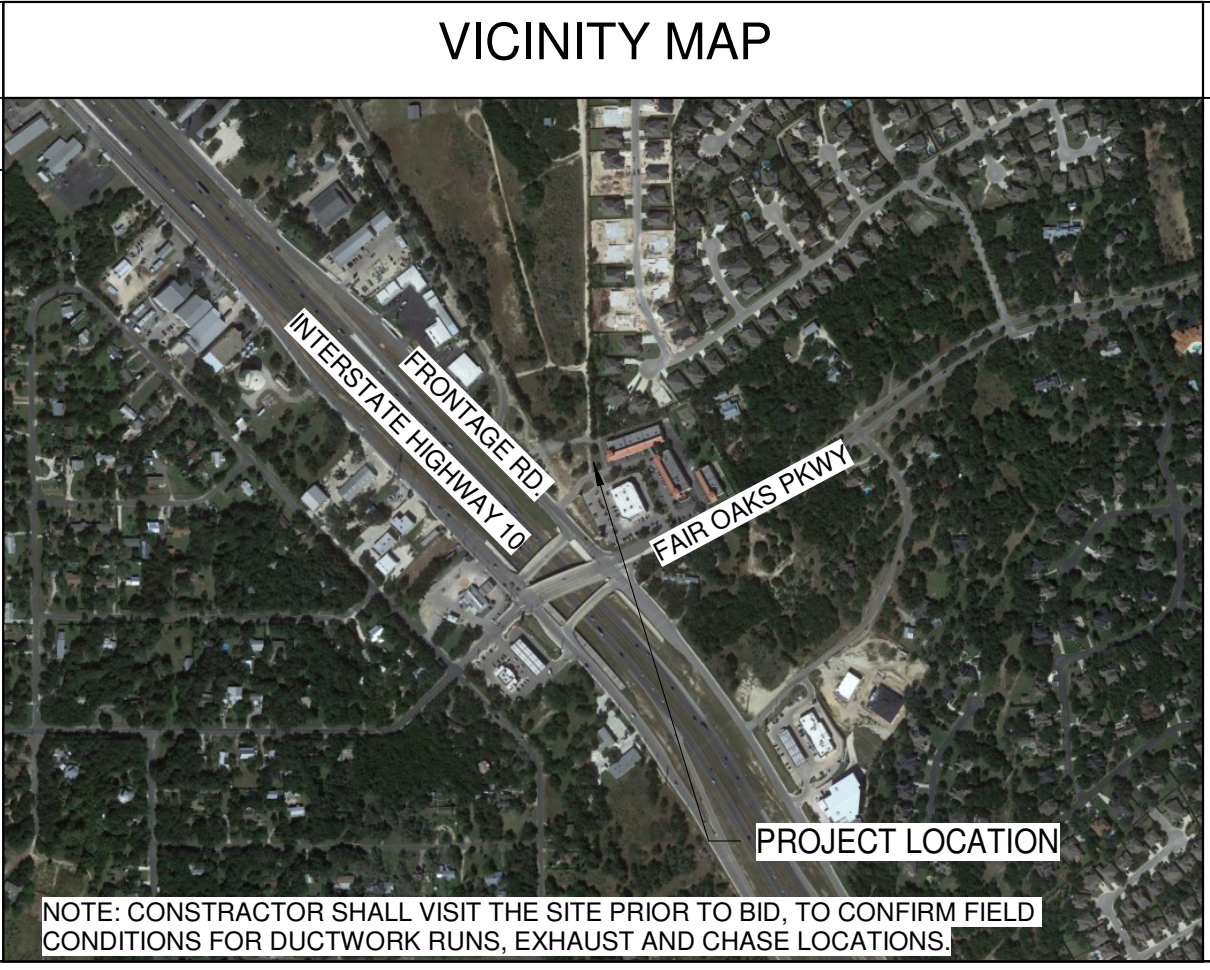
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CONSTRUCTION PHASE NOTE

ARCHITECT'S DESIGN WITHOUT CONSTRUCTION PHASE SERVICES

SINCE DIRECT CONSTRUCTION OBSERVATIONS AND REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INCLUDED AS PART OF THE ARCHITECT'S BASIC SERVICES, IT IS UNDERSTOOD THAT SUCH RESPONSIBILITIES WILL BE ASSUMED BY OTHERS. LINGLE DESIGN GROUP, INC. AVAILS ITSELF TO THE CLIENT, THE CONTRACTOR, AND ANY OTHER PARTIES AS NECESSARY (VIA TELEPHONE, FAX, AND EMAIL) IN ORDER TO ASSIST IN PROVIDING CLARIFICATIONS OR RESOLVING ISSUES AND PROBLEMS THAT MAY ARISE. ALTHOUGH MANY ISSUES CAN BE EASILY ADDRESSED WITHOUT THE ARCHITECT'S INVOLVEMENT, THERE ARE TIMES WHEN PARTICIPATION IS ADVISABLE. DETERMINATION OF WHEN INVOLVEMENT IS APPROPRIATE IS LEFT TO THE PROFESSIONAL DISCRETION OF THE CONTRACTOR. IT IS UNDERSTOOD THAT THE CLIENT AND/OR THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THE DRAWINGS, AND ANY OTHER SUPPLEMENTAL INFORMATION, AND WHEN THE ARCHITECT IS DENIED THE OPPORTUNITY TO PROVIDE CLARIFICATIONS OR PARTICIPATE IN CHANGES TO THE DESIGN OR THE RESOLUTION OF ISSUES OR PROBLEMS, ALL PARTIES WAIVE ANY CLAIMS AGAINST THE ARCHITECT THAT MAY BE IN ANY WAY CONNECTED THERETO. LINGLE DESIGN GROUP, INC. IS HELD HARMLESS FROM LOSS, CLAIM, OR COSTS ARISING OR RESULTING FROM MODIFICATIONS OR CHANGES MADE TO THE DESIGN (WITHOUT THE KNOWLEDGE OF THE ARCHITECT) DUE TO CONDITIONS OR CIRCUMSTANCES (ANTICIPATED OR NOT) BEYOND THE ARCHITECT'S CONTROL.



STATEMENT OF COMPLIANCE

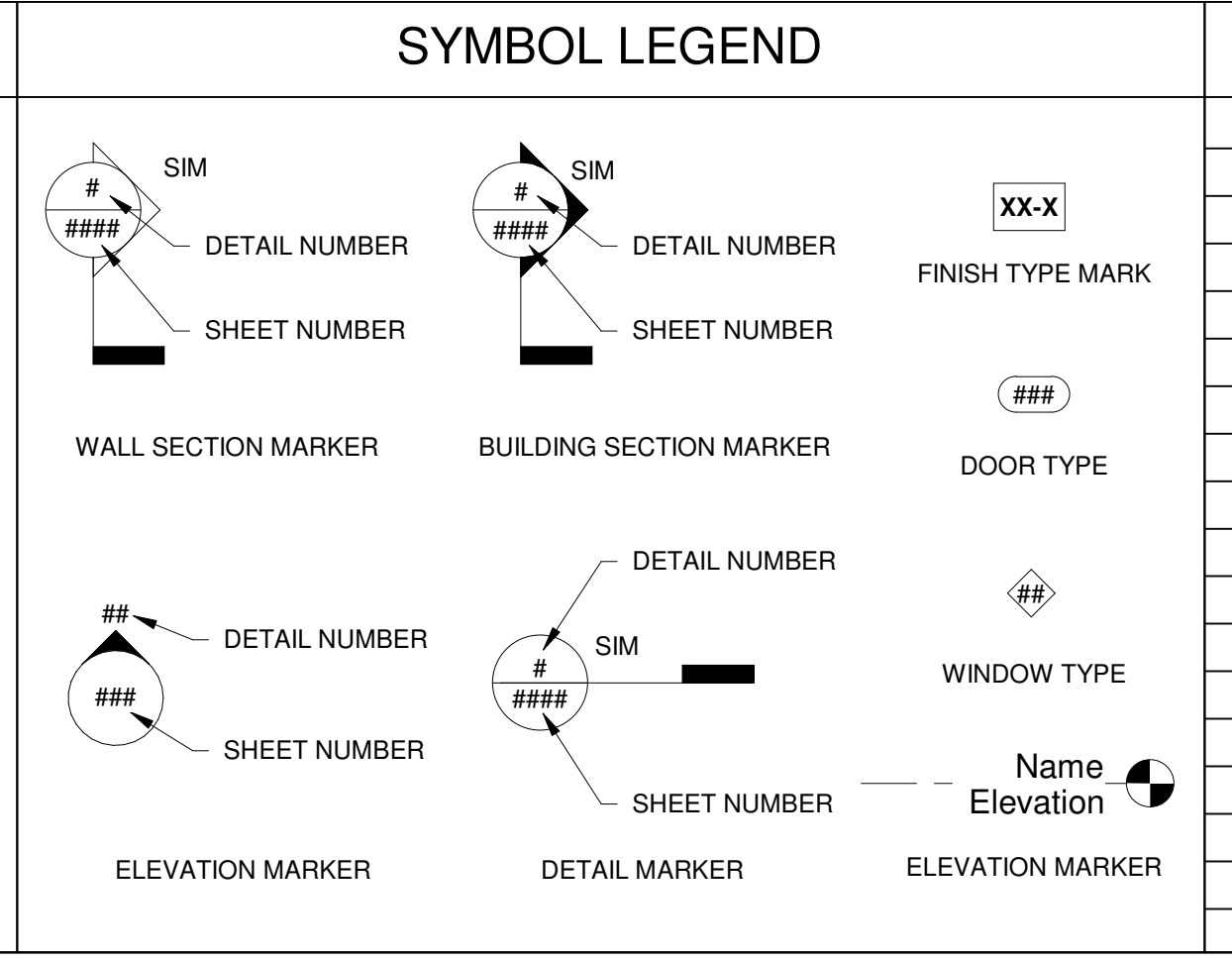
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH ALL APPLICABLE LAWS, CODES & ORDINANCES.

SIGNATURE:

ARCHITECT

REGISTRATION NO.: 18179

DATE: 30 / SEP / 2023



CODE / BUILDING INFORMATION

BUILDING CODES:

BUILDING:	2021 INTERNATIONAL BUILDING CODE
MECHANICAL:	2021 INTERNATIONAL MECHANICAL CODE
ELECTRICAL:	2020 NATIONAL ELECTRICAL CODE
PLUMBING:	2021 INTERNATIONAL PLUMBING CODE
FUEL GAS:	2021 INTERNATIONAL FUEL GAS CODE
FIRE:	2021 INTERNATIONAL FIRE CODE
ENERGY:	2021 INTERNATIONAL ENERGY CODE
ACCESSIBILITY:	2009 ICC/ANSI A117.1

BUILDING INFORMATION:

CONSTRUCTION TYPE:	V-B
SCOPE OF WORK:	NEW CONSTRUCTION
FLOOR AREA:	4,320 SQ. FT.
STORIES / HEIGHT:	1 STORY / 24'-6"
FIRE PROTECTION:	PORTABLE FIRE EXTINGUISHERS
INTERIOR FINISHES:	CLASS C FLAME SPREAD RATING
NUMBER OF EMPLOYEES:	4
OCCUPANCY:	M (MERCANTILE) - OCCUPANT LOAD: 72

ABBREVIATIONS

# POUND OR NUMBER (E) EXISTING (N) NEW +/- PLUS OR MINUS @ DIAMETER	C.M. CONSTRUCTION MANAGER C.M.U. CONCRETE MASONRY UNIT CJO CEILING JOIST C/O CLEANOUT CJ CONTROL JOINT CL CENTER LINE CLG CEILING CLR CLEAR COL COLUMN COMP COMPOSITE CONC. CONCRETE COND CONDENSING UNIT CONN. CONNECTION CONSTR. CONSTRUCTION CONT. CONTINUOUS / CONTINUE CONTR. CONTRACTOR CTR. CENTER CU FT CUBIC FOOT CU YD CUBIC YARD	D.N. DOWN DW DISHWASHER DWG. DRAWING	E. EAST E.P. ELECTRIC PANEL E.W. EACH WAY EA EACH EJ EXPANSION JOINT EL ELEVATION ELEC. ELECTRICAL EMER. EMERGENCY EQ. EQUAL EQUIP. EQUIPMENT EXIS. EXISTING EXT. EXTERIOR	F.F. FINISH FLOOR F.H. FIRE HYDRANT F.L. FLOW LINE F.O.C. FACE OF CONCRETE F.O.F. FACE OF FINISH F.O.M. FACE OF MASONRY BOARD F.O.S. FACE OF STUD F.O.S.H. FACE OF SHEATHING F.S.R. FIRE SPRINKLER RISER F/S FLOOR SINK FCO FLOOR CLEANOUT FD FLOOR DRAIN FE FIRE EXTINGUISHER	D.N. DOWN DW DISHWASHER DWG. DRAWING	FEC FIRE EXTINGUISHER CABINET FIN. FINISH FIXT. FIXTURE FLOUR. FLOURESCENT FLR. FLOOR FND. FOUNDATION FT. FOOT/FEET FTG. FOOTING FUT. FUTURE	H.G. HEATING HVAC HEATING / VENTILATION / AIR CONDITIONING	I.D. INSIDE DIAMETER IN. INCH INSUL. INSULATE / INSULATION INT. INTERIOR INV. INVERT	J-BOX JUNCTION BOX JST. JOIST JT. JOINT	KO. KNOCKOUT KPL. KICKPLATE	L LENGTH L.B. LAG BOLT L.H. LEFT HAND L.L. LIVE LOAD L.V.L. LAMINATED VENEER LUMBER	H.B. HOSE BIB H.C. HOLLOW CORE H.M. HOLLOW METAL HDR. HEADER HDW. HARDWARE HDWD. HARDWOOD HOR. HORIZONTAL HT. HEIGHT	M.H. MANHOLE M.O. MASONRY OPENING MAS. MASONRY MATL. MATERIAL MAX. MAXIMUM MECH. MECHANICAL MEMB. MEMBRANE MFR. MANUFACTURE(ER)(ING) MIN. MINIMUM MISC. MISCELLANEOUS MOD. MODULAR / MODULE MTD. MOUNTED MTFR METAL FURRING MTL. METAL MUL. MULLION	N. NORTH N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE NO. NUMBER NOM. NOMINAL	O.A. OVERALL O.C. ON CENTER O.D. OUTSIDE DIAMETER O.H.D. OVERHEAD DOOR OFCI OWNER FURNISHED / CONTRACTOR INSTALLED OFD. OVERFLOW DRAIN	OFOI OWNER FURNISHED / OWNER INSTALLED OH. OVERHEAD OPG. OPENING OPP. OPPOSITE OPQ. OPAQUE	P.L. PROPERTY LINE P.T. PRESSURE TREATED PARTN PARTITION PCF POUNDS PER CUBIC FOOT PERF PERFORATED PFL POUNDS PER LINEAR FOOT PL PLATE PLAM PLASTIC LAMINATE PLAS. PLASTER PLBG. PLUMBING PLWD. PLYWOOD PRKG. PARKING PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PTD. PAINT(ED) PVC POLYVINYL CHLORIDE PVMT. PAVEMENT	Q.T. QUARRY TILE QTY. QUANTITY	R. RISER	R.A. RETURN AIR R.D. ROOF DRAIN R.H. RIGHT HAND R.O. ROUGH OPENING R.O.W. RIGHT OF WAY RAD. RADIUS RB RUBBER BASE REF. REFERENCE REFR. REFRIGERATOR REINF. REINFORCED REQD. REQUIRED RESIL. RESILIENT RET. RETURN REV REVISION RFG. ROOFING RM. ROOM RVRS. REVERSE	S. SOUTH S.A.N. SCALE AS NOTED S.A.T. SUSPENDED ACOUSTICAL TILE	S.C. SOLID CORE S.D. STORM DRAIN SCHED. SCHEDULE SECT. SECTION SF SQUARE FEET SHT. SHEET SHTG. SHEATHING SIM. SIMILAR	SLP. SLOPE SPEC. SPECIFICATION SPKR SPEAKER SQ. SQUARE	SS. STAINLESS STEEL SSK. SERVICE SINK STD. STANDARD STL. STEEL STOR. STORAGE STRUC.T STRUCTURAL SYM. SYMMETRICAL SYS. SYSTEM	T&G TONGUE AND GROOVE T. TREAD T.B.D. TO BE DETERMINED T.O.B. TOP OF BEAM T.O.C. TOP OF CURB / CONCRETE T.O.P. TOP OF PARAPET T.O.S. TOP OF SHEATHING T.O.ST. TOP OF STEEL T.O.W. TOP OF WALL TEL. TELEPHONE TFCI TENANT FURNISHED / CONTRACTOR INSTALLED TFTI TENANT FURNISHED / TENANT INSTALLED THK. THICK(NESS) THRES THRESHOLD	TINT TINTED TMPD TEMPERED TOL TOLERANCE TYP. TYPICAL	U.N.O. UNLESS NOTED OTHERWISE UBC UNIFORM BUILDING CODE UNFIN. UNFINISH(ED)	V.B. VINYL BASE V.C.T. VINYL COMPOSITION TILE V.T.R. VENT THROUGH ROOF VERT. VERTICAL	W. WEST W.B. WEATHER BARRIER W.C. WATER CLOSET W.H. WATER HEATER W.M. WIRE MESH W.R. WATER RESISTANT W.T. WALL TILE W.W.F. WELDED WIRE FABRIC W/ WITH WO WITHOUT WD. WOOD WSCT. WAINSCOT
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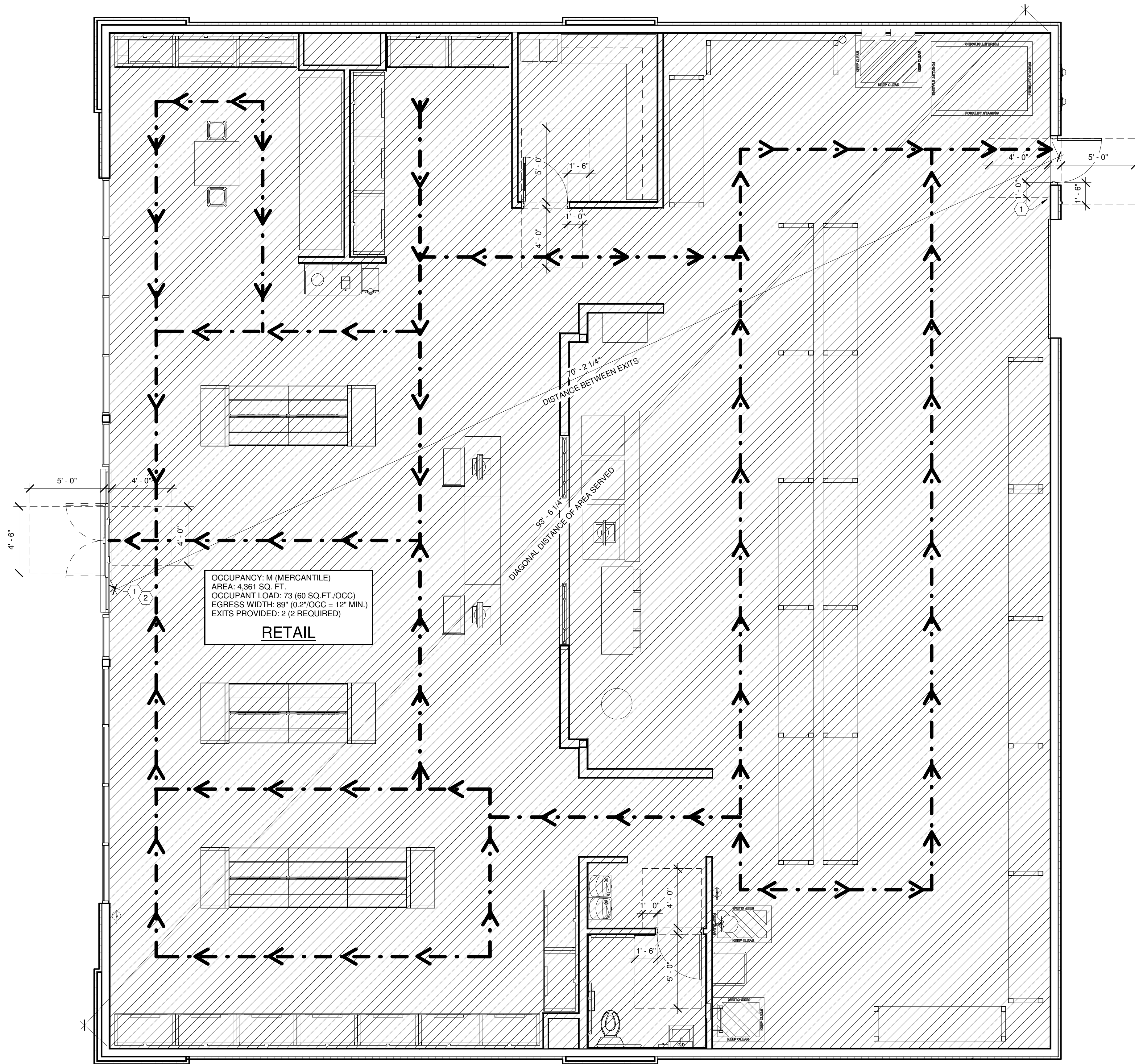
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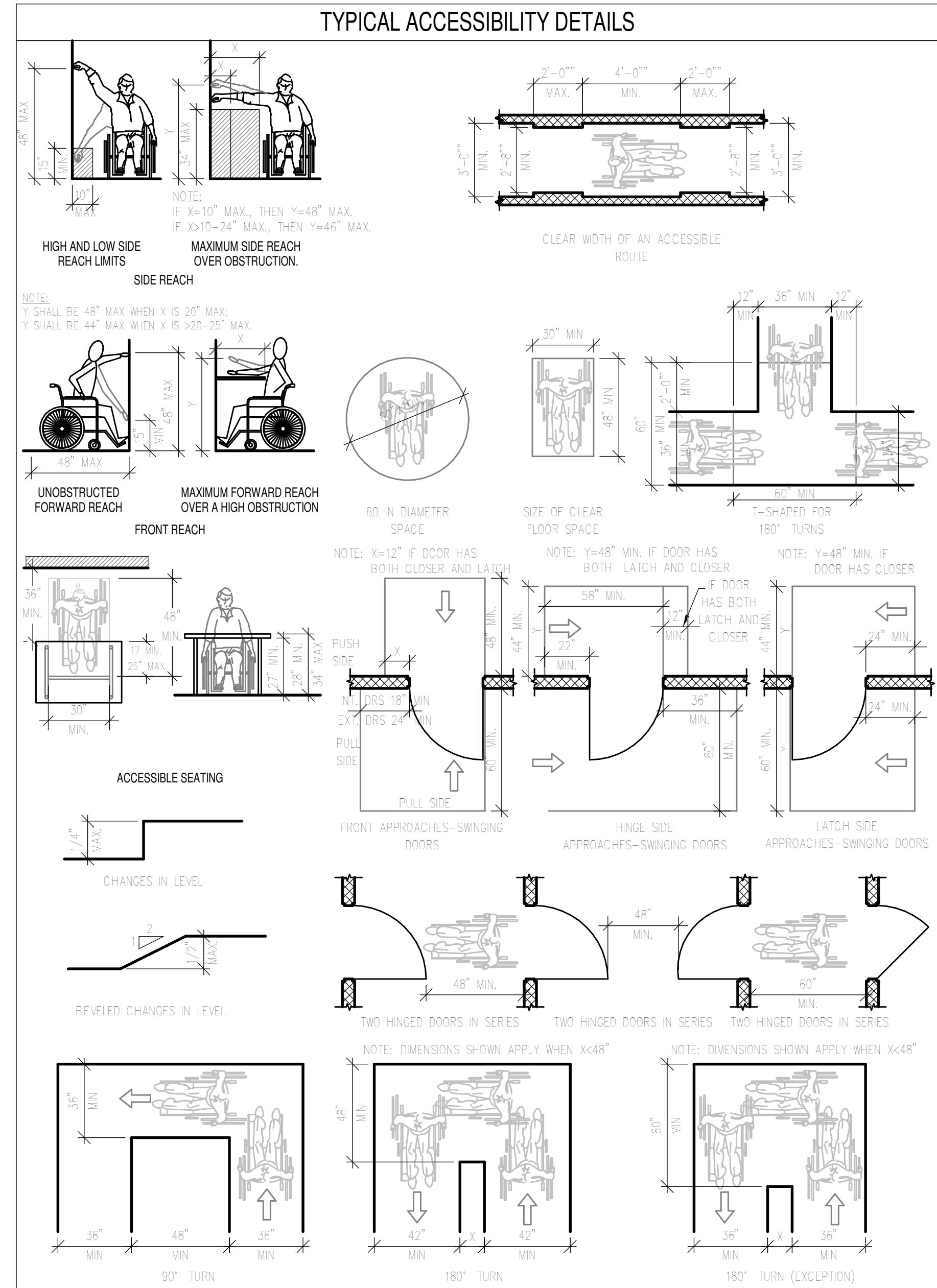
SHEET TITLE:
Cover Sheet

SHEET NUMBER:
G001



OCCUPANCY: M (MERCANTILE)
 AREA: 4,361 SQ. FT.
 OCCUPANT LOAD: 73 (60 SQ.FT./OCC)
 EGRESS WIDTH: 89' (0.2"/OCC = 12" MIN.)
 EXITS PROVIDED: 2 (2 REQUIRED)

RETAIL



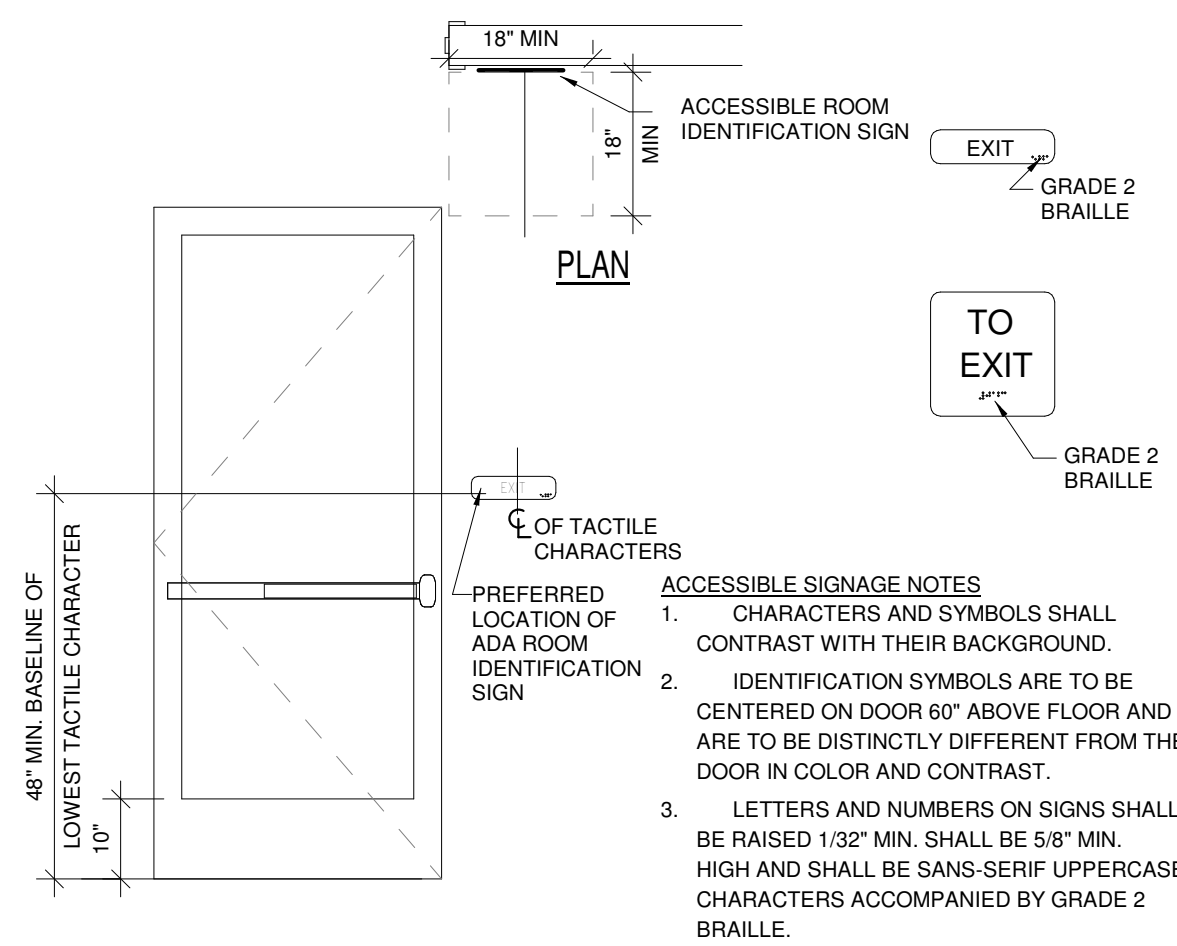
ACCESSIBILITY PLAN CODED NOTES

1	TACTILE SIGNAGE AT EXTERIOR EXIT DOORS - SIGNAGE TO READ "EXIT" PER IBC 1011.4 - SEE DETAIL A5/G100
2	SIGNAGE: "MAXIMUM OCCUPANCY 73 PERSONS"

RESTROOM FIXTURES

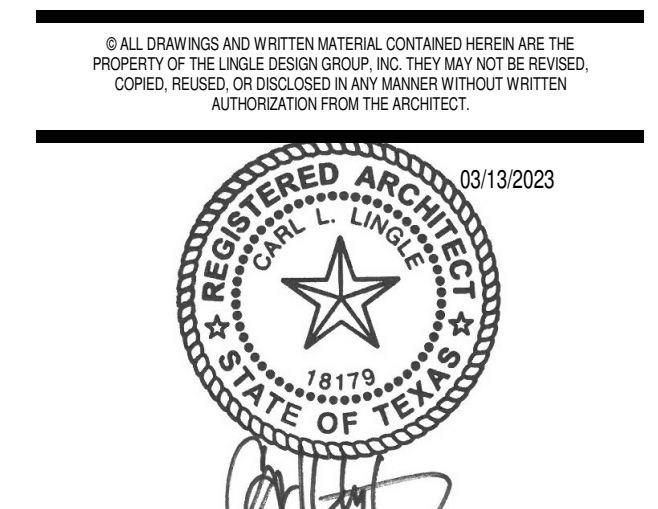
	REQUIRED	PROVIDED
WATER CLOSET	1 PER 500	1
URINAL	>50% OF WC	0
LAVATORIES	1 PER 750	1
SERVICE SINK	1	1

- GENERAL NOTES**
- G.C. TO VERIFY QUANTITY & LOCATIONS OF FIRE EXTINGUISHERS WITH LOCAL AUTHORITIES. FIRE EXTINGUISHERS TO BE SUPPLIED BY G.C. - REFER TO FLOOR PLAN.
 - G.C. TO PROVIDE FIRE DEPARTMENT REQUIRED KEY BOX. COORDINATE LOCATION AND TYPE WITH LOCAL AUTHORITIES.
 - SEE MEP DRAWINGS AND RESPONSIBILITY SCHEDULE FOR INFORMATION REGARDING FIRE ALARM SYSTEM - SYSTEM BY GENERAL CONTRACTOR (IF APPLICABLE)
 - ALL CLEAR FLOOR SPACE AND TURNING SPACE TO BE NO GREATER THAN 2% SLOP PER ADA 304.2 & 305.2



A5 Exit Signage Detail
 1/2" = 1'-0"

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SHEET TITLE:
Accessibility & Egress Plan

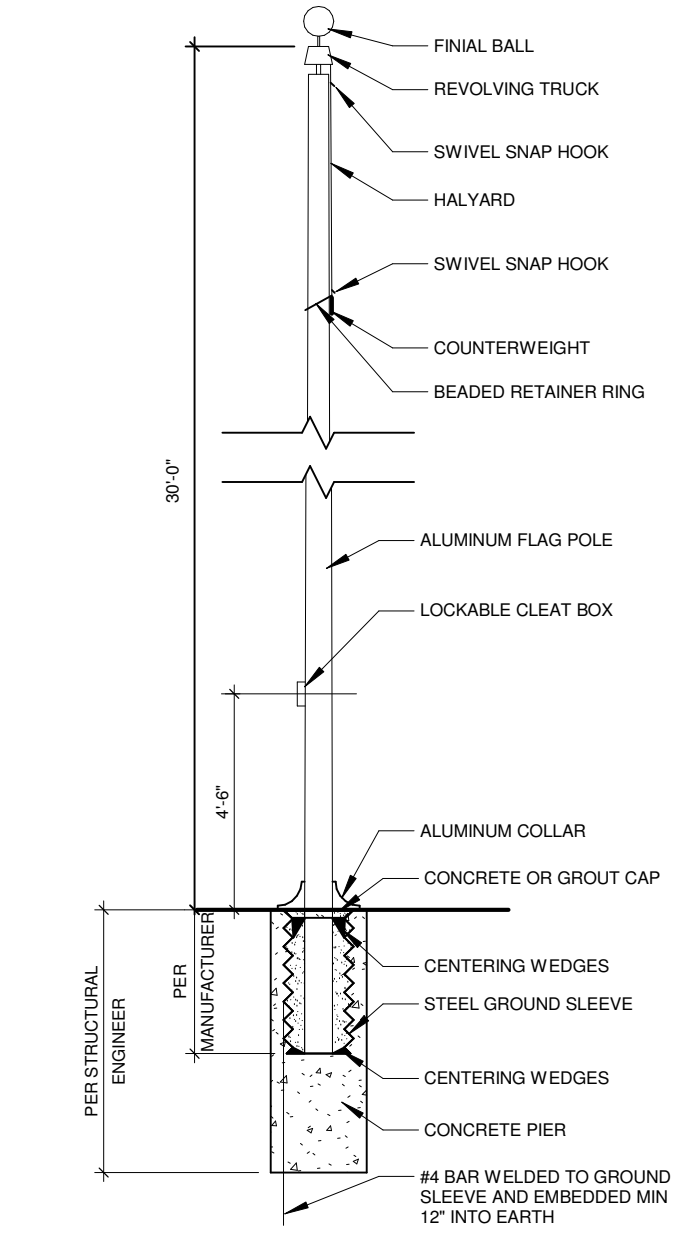
SHEET NUMBER:

G100

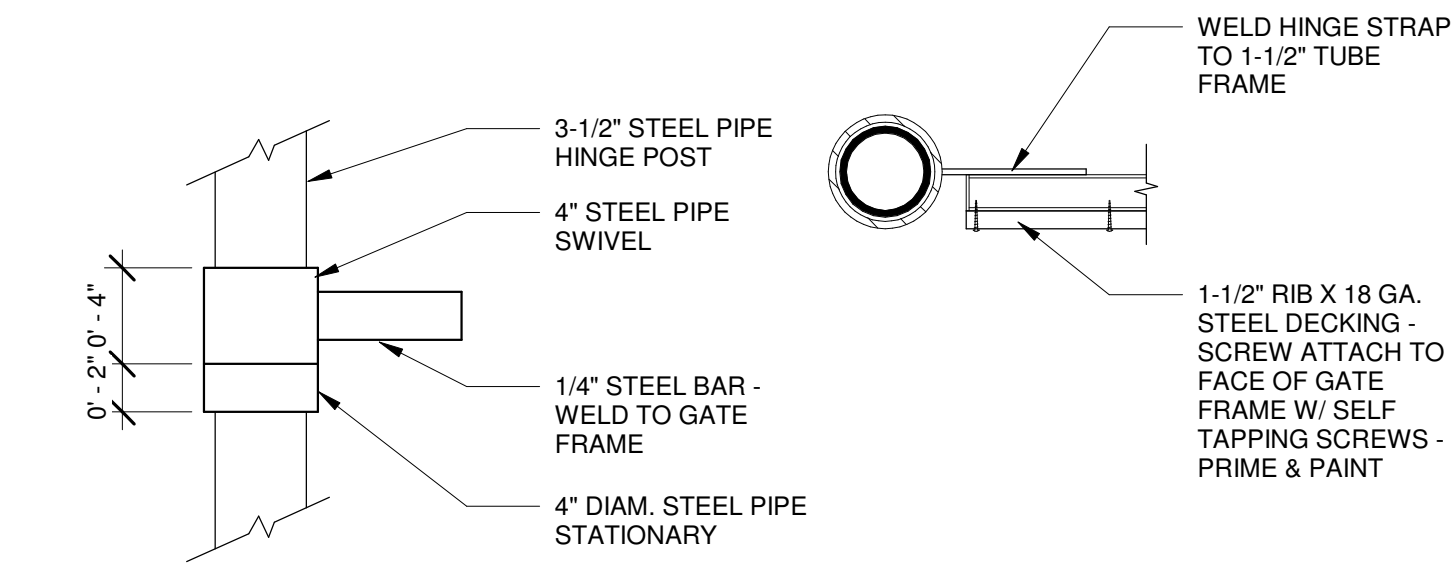
A1 Accessibility & Egress Plan
 1/4" = 1'-0"

SITE PLAN CODED NOTES	
1	TENANT BUILDING
2	NEW ACCESSIBLE PARKING - REFER CIVIL FOR DETAILS
3	NEW SITEWORK & PARKING - REFER CIVIL
4	TRASH ENCLOSURE - REFER CIVIL
5	FLAG POLE - SEE DETAIL C3/A001
6	DELIVERY RAMP - REF CIVIL
7	PROPERTY LINE

GENERAL NOTES	
1.	UNLESS OTHERWISE NOTED, ALL SITE & CIVIL WORK PERFORMED UNDER SEPARATE PERMIT.
2.	REFERENCE CIVIL PERMIT SET.
3.	GENERAL CONTRACTOR TO COORDINATE ALL UTILITIES SCHEDULING & CONNECTIONS.

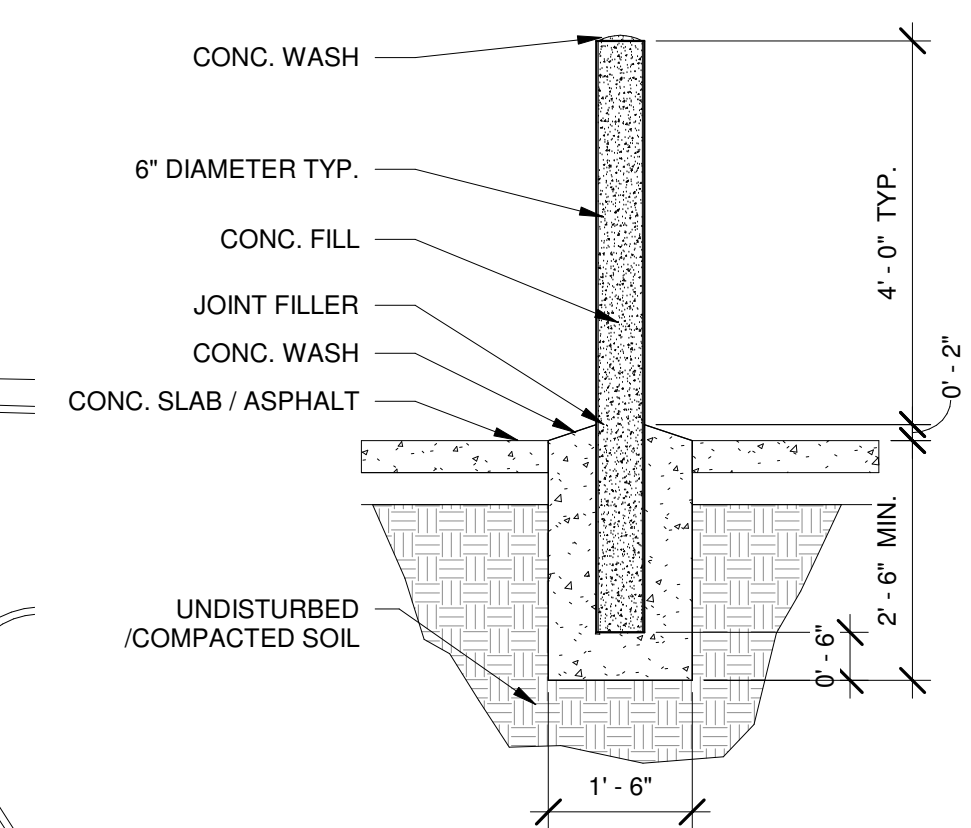


C3 FLAG POLE
1/4" = 1'-0"

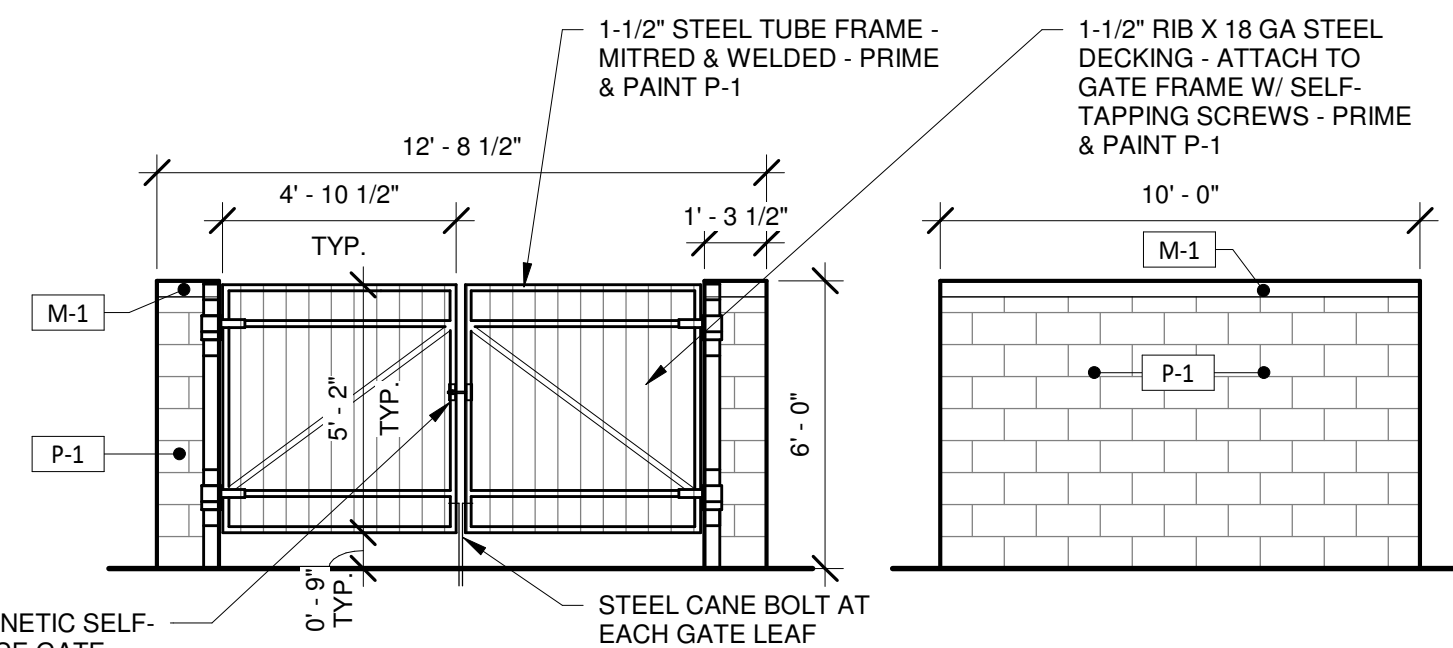


C4 HINGE DETAIL
1 1/2" = 1'-0"

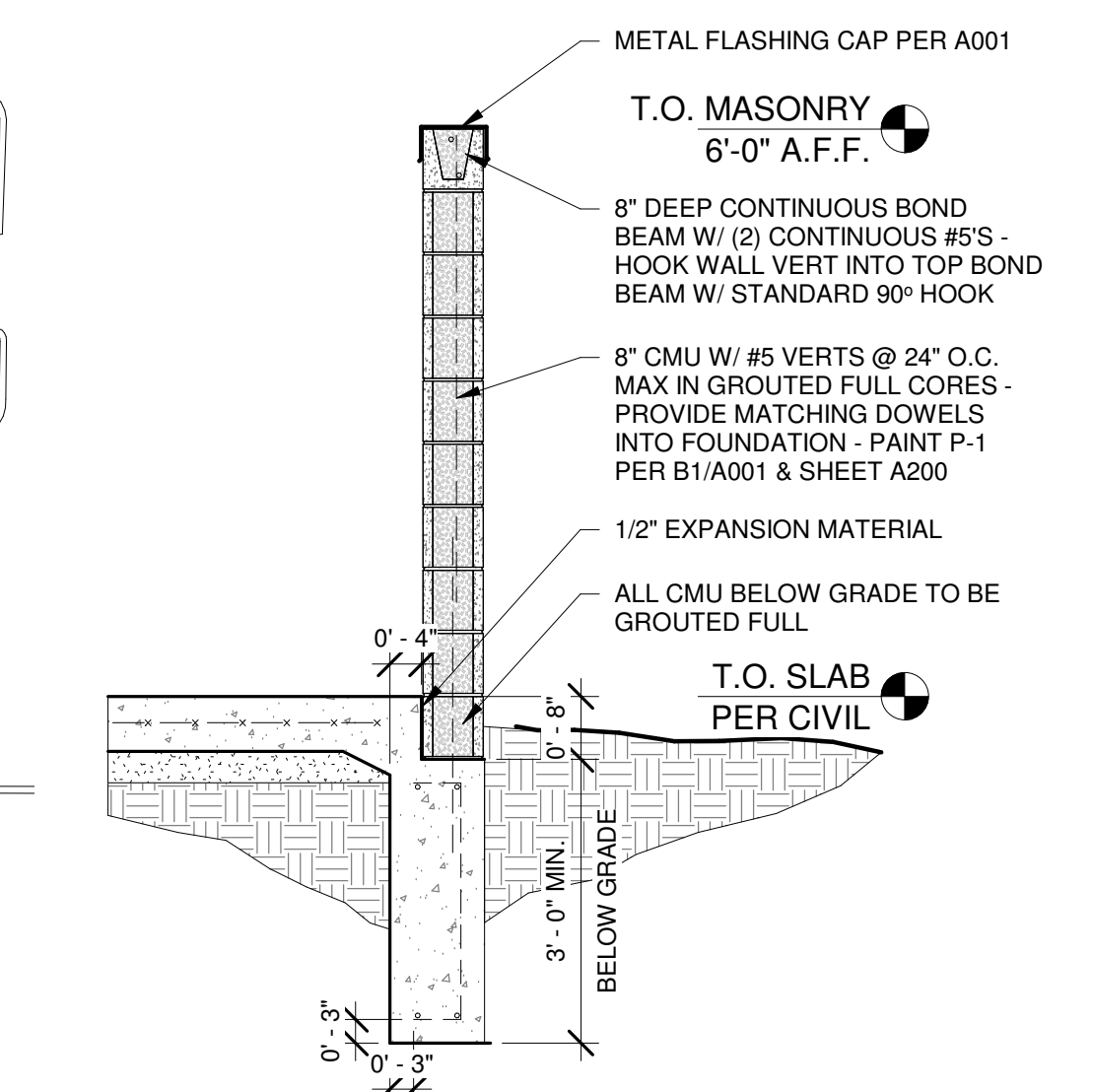
NOTE: SEE PLAN FOR LOCATION



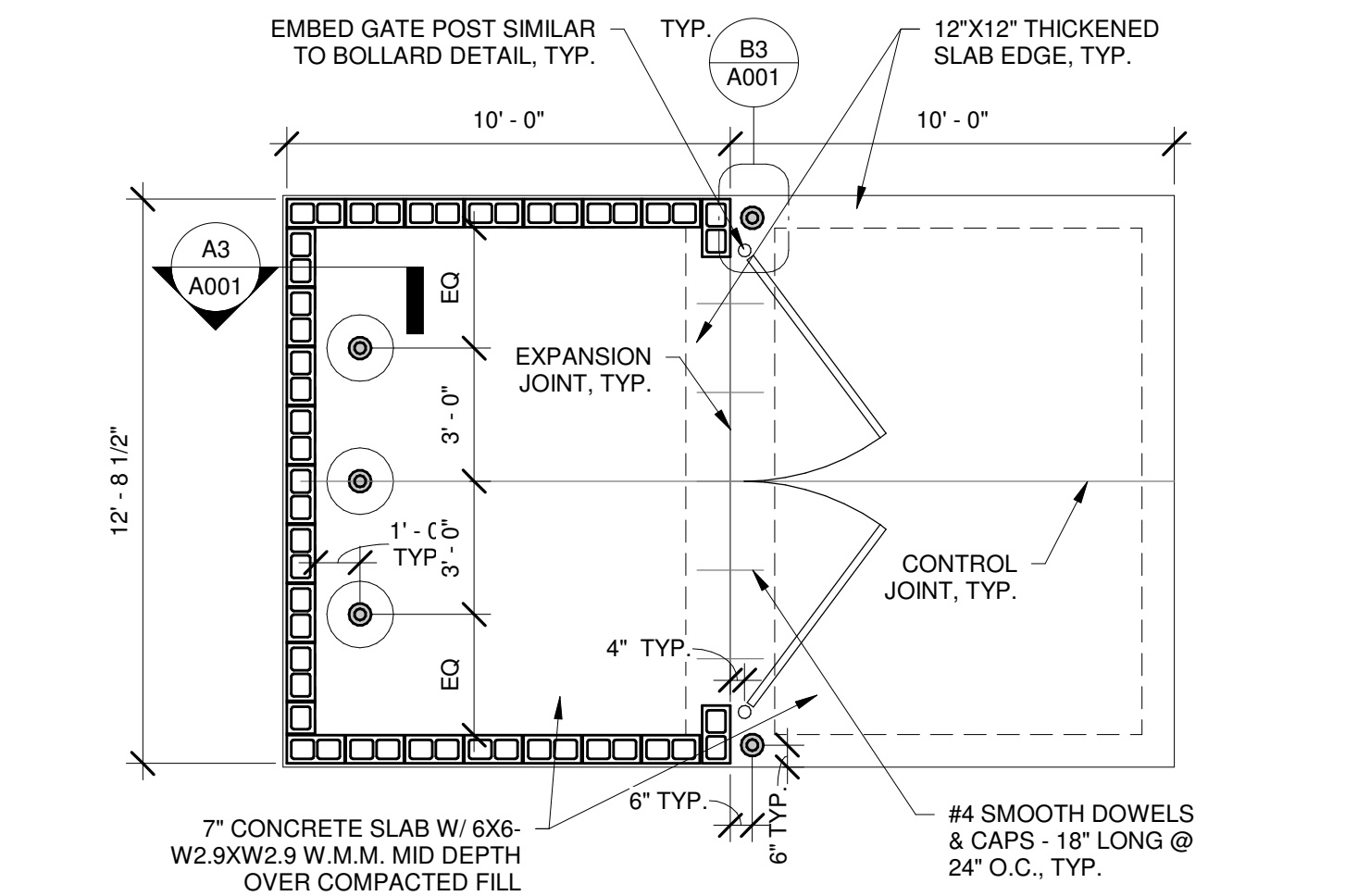
B3 BOLLARD DETAIL
1/2" = 1'-0"



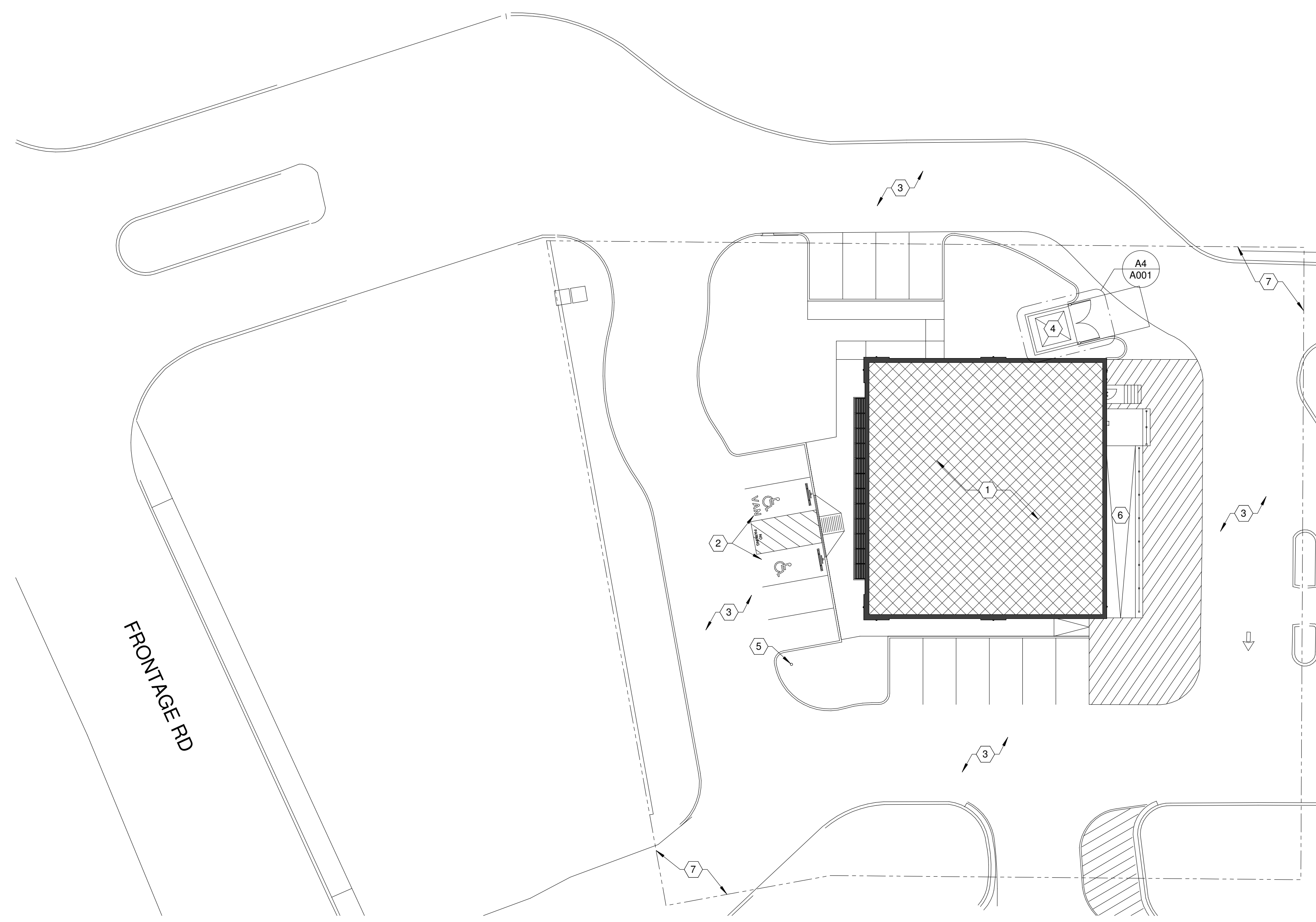
B4 TRASH ENCLOSURE ELEVATIONS CMU
1/4" = 1'-0"



A3 TRASH ENCLOSURE WALL SECTION CMU
1/2" = 1'-0"



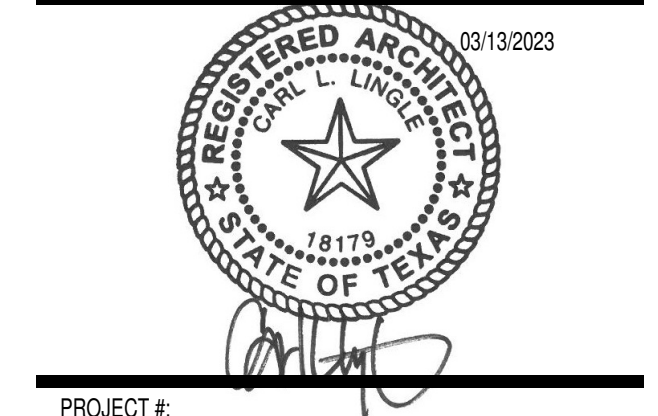
A4 TRASH ENCLOSURE PLAN CMU
1/4" = 1'-0"



A1 SITE PLAN
1" = 20'-0"

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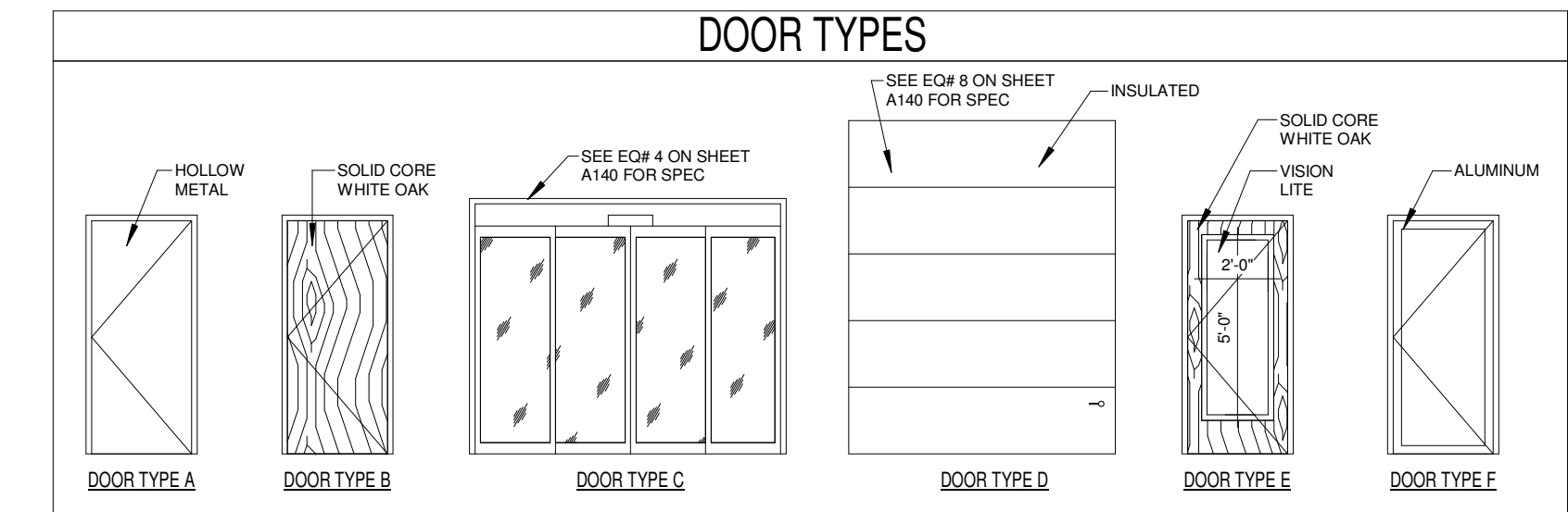
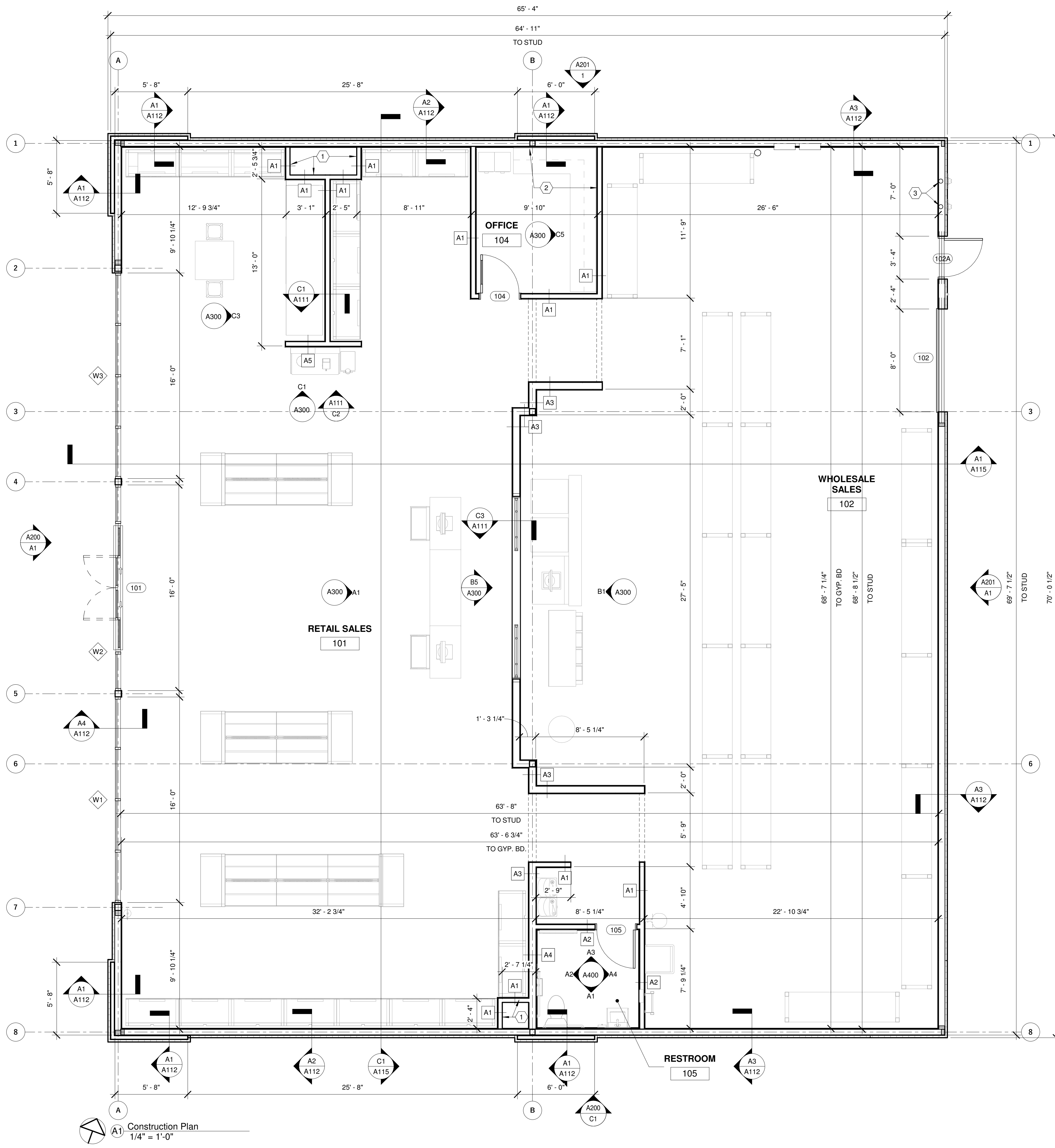
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FAIR OAKS RANCH, TX
78015

SHEET TITLE:
Architectural Site Plan

SHEET NUMBER:
A001



Door Schedule

Mark	Width	Height	Thickness	DOOR TYPE	DOOR MATERIAL	FRAME MATERIAL	HARDWARE GROUP
101	10'-0"	7'-8"	0'-4 1/2"	B	ALUMINUM	---	GROUP 5
102	8'-0"	10'-0"	0'-1 1/2"	G	STEEL	---	GROUP 5
102A	3'-0"	7'-0"	0'-1 3/4"	D	HM	HM-STL	GROUP 4
104	3'-0"	7'-0"	0'-1 3/4"	J	WOOD	HM-STL	GROUP 2
105	3'-0"	7'-0"	0'-1 3/4"	F	WOOD	HM-STL	GROUP 3

HARDWARE SCHEDULE

GROUP 1 - SLIDING DOORS

2 EA.	EXIT DEVICE	MOTION DETECTION UNIT
1 EA.	LOCK	MANUFACTURER LOCK SYSTEM
2 EA.	CLOSER	AUTOMATIC DOORS
1 EA.	SIGNAGE	"DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS"
1 EA.	SIGNAGE	"MAXIMUM OCCUPANCY" - POST AT MAIN ENTRY
1 EA.	THRESHOLD	MANUFACTURER THRESHOLD SYSTEM

GROUP 2 - RESTROOM DOORS (PRIVACY SET)

3 PR.	HINGE	STANLEY - #FBB179 - 4-1/2" X 4-1/2"
1 EA.	LATCH	SCHLAGE - ND40S-TLR (PRIVACY HARDWARE) - 626 FINISH
1 EA.	CLOSER	DORMA - 8616FHP
3 EA.	SILENCERS	GLYNN - GJ64
1 EA.	SIGNAGE	"RESTROOM" SIGNAGE PER DETAIL ON SHEET A400
1 EA.	STOP	AS REQUIRED - WALL: #407 1/2 PA28 - FLOOR: #436 OR #438 PA28

GROUP 3 - OFFICE DOOR

3 PR.	HINGE	STANLEY - #FBB179 - 4-1/2" X 4-1/2"
1 EA.	LATCH	SCHLAGE - ND50PD-TLR-SFIC - 626 FINISH
1 EA.	LOCK	LATCH-COMPATIBLE SMALL FORMAT INTERCHANGEABLE CORE
3 EA.	SILENCERS	GLYNN - GJ64
1 EA.	STOP	AS REQUIRED - WALL: #407 1/2 PA28 - FLOOR: #436 OR #438 PA28
1 EA.	VISION LITE	FULL GLASS - VERIFY W/ SHERWIN-WILLIAMS CORPORATE

GROUP 4 - SERVICE DOOR

3 PR.	HINGE	STANLEY - #FBB179 - 4-1/2" X 4-1/2"
1 EA.	PULL	YALE - 632F-626
1 EA.	EXIT DEVICE	YALE - 2150-36 - 652 FINISH (PANIC BAR)
1 EA.	CLOSER	LCN-4041 (4040 SERIES) - HEAVY DUTY CLOSER
3 EA.	SILENCERS	GLYNN - GJ64
1 EA.	THRESHOLD	PEMCO - #171A - SIZE AS REQUIRED
1 EA.	SWEEP	PEMCO - #307AV - SIZE AS REQUIRED
1 EA.	WEATHERSTRIP	PEMCO - #303AV - SIZE AS REQUIRED

GROUP 5 - DELIVERY DOOR

1 EA.	OPENER/LOCK	MOTORIZED OPERATOR - LIFTMASTER LJ8900W
1 EA.	WEATHERSTRIP	PEMCO - #303AV - SIZE AS REQUIRED

GROUP 6 - STOREFRONT DOOR

3 PR.	HINGE	4-1/2" X 4-1/2" B.B. WITT NON REMOVABLE PINS
1 EA.	LOCK	KEYED DEADBOLTS WITH INSIDE THUMBTURN
1 EA.	EXIT DEVICE	PUSH SET
1 EA.	PULL	ELMES G500-01-023-L300 OR APPROVED SIMILAR
1 EA.	CLOSER	LCN-4041 (4040 SERIES) - HEAVY DUTY CLOSER
1 EA.	THRESHOLD	PEMCO - #171A - SIZE AS REQUIRED
1 EA.	SWEEP	PEMCO - #307AV - SIZE AS REQUIRED

DOOR AND HARDWARE NOTES:

- G.C. TO FURNISH & INSTALL MEDECO CYLINDER IN ALL PERIMETER DOORS. SHERWIN-WILLIAMS CORPORATE WILL RE-KEY TO SHERWIN-WILLIAMS MASTER KEY SYSTEM. PROVIDE KEYWAY ON EXTERIOR FACE.
- G.C. TO FURNISH & INSTALL MEDECO CYLINDER IN ALL INTERIOR H.M. DOORS. ALL INTERIOR DOORS TO BE KEYED ALIKE. PROVIDE KEYWAY ON EXTERIOR FACE.
- ALL HOLLOW METAL DOOR FRAMES ARE TO BE WELDED.
- G.C. TO FURNISH & INSTALL PANIC HARDWARE PER ALL APPLICABLE REGULATIONS & CODES HAVING JURISDICTION.
- DOOR STOPS AND BUMPERS TO BE INSTALLED BEHIND ALL DOORS.
- ALL HARDWARE TO BE US28D BRUSHED CHROME, CLEAR ANODIZED FINISH.
- UNDERCUT RESTROOM & OFFICE DOORS 1".
- U.N.O. ALL PAINTED DOORS & DOOR JAMBS TO BE PAINTED P-1.

GENERAL NOTES

- G.C. TO PROVIDE BLOCKING FOR SUPPORT OF RESTROOM AND CASEWORK ACCESSORIES AS RECOMMENDED BY MANUFACTURER. SEE ENLARGED RESTROOM AND CASEWORK ELEVATIONS.
- OCCUPANCY LOAD SIGN SUPPLIED AND INSTALLED BY G.C.
- G.C. SHALL SUPPLY AND INSTALL RECESSED FIRE EXTINGUISHERS AS REQUIRED BY LOCAL CODES. LOCATION PER LOCAL CODES. COORDINATE PLACEMENT WITH TENANT AND FIRE MARSHAL.
- REFERENCE THE FOLLOWING SHEETS: G001 GENERAL NOTES, ABBREVIATIONS AND SYMBOLS; G100 ACCESSIBILITY PLANS.
- ALL DIMENSIONS NOTED ARE FROM FACE OF STUD TO FACE OF STUD, UNO.
- ELECTRICAL EQUIPMENT BY G.C. SEE ELECTRICAL DRAWINGS.
- PLUMBING EQUIPMENT BY G.C. SEE PLUMBING DRAWINGS.
- ALL CONSTRUCTION MUST BE PERFORMED WITHOUT ANY PENETRATION OF STOREFRONT IN ANY WAY, INCLUDING, BUT NOT LIMITED TO SCREWS, BOLTS AND DRILLING.
- SOUND BATT INSULATION TO BE MINIMUM CLASS 2 WITH FLAME SPREAD RATING OF 25 TO 75.
- SHGC & U-FACTOR MINIMUMS
SHGC: .30
U-FACTOR: .45 - DOUBLE PANE - LOW E

XX WALL TYPES - SEE SHEET A111

XX STOREFRONT TAG - SEE SHEET A201

XXX DOOR TAG - SEE SHEET A110

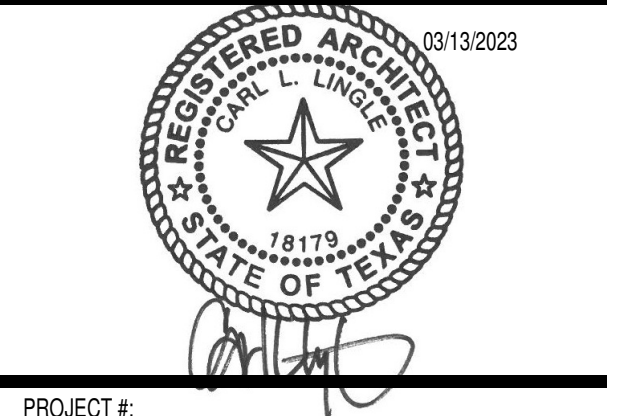
INDICATES GLAZING

CONSTRUCTION PLAN CODED NOTES

1	NO GYP. BD. NEEDED INSIDE VOID SPACE
2	WOOD BLOCKING FOR DESK SHELVING - SEE DETAIL B4/A111 - NO UPPER SHELF ALONG STOREFRONT
3	4" PVC ROOF DRAIN PIPE - SEE SHEET A150

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SHERWIN WILLIAMS

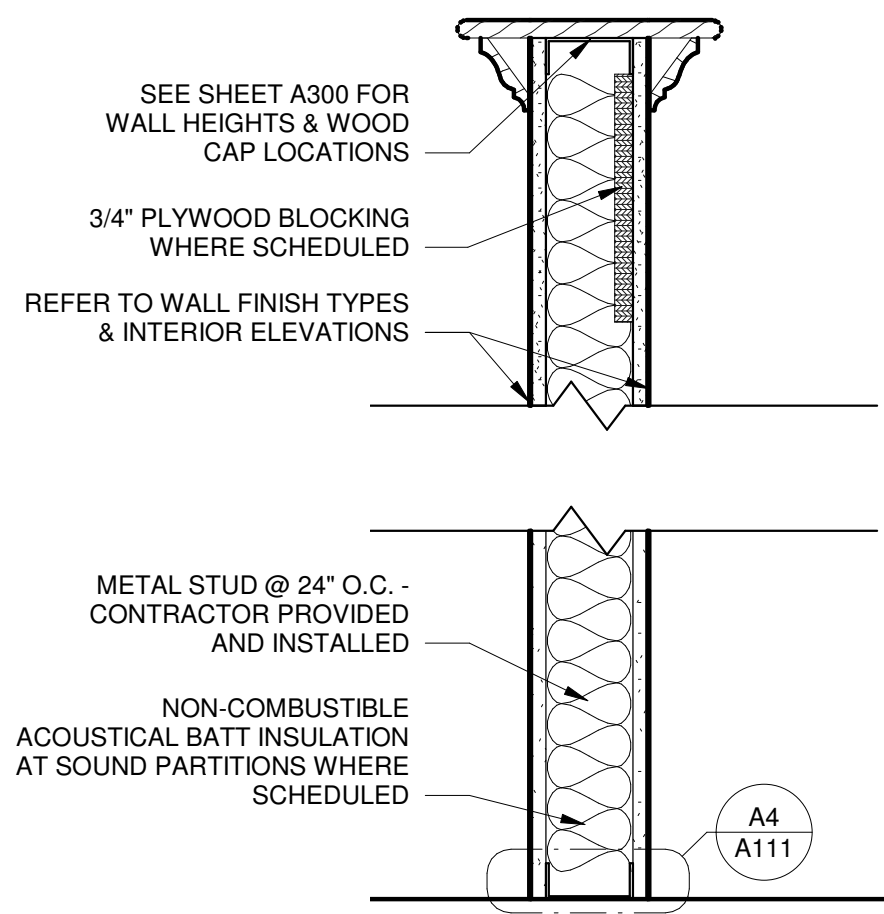
STORE #:
XXXX
ADDRESS:
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE:
Construction Plan

SHEET NUMBER:
A110

A1 Construction Plan
1/4" = 1'-0"

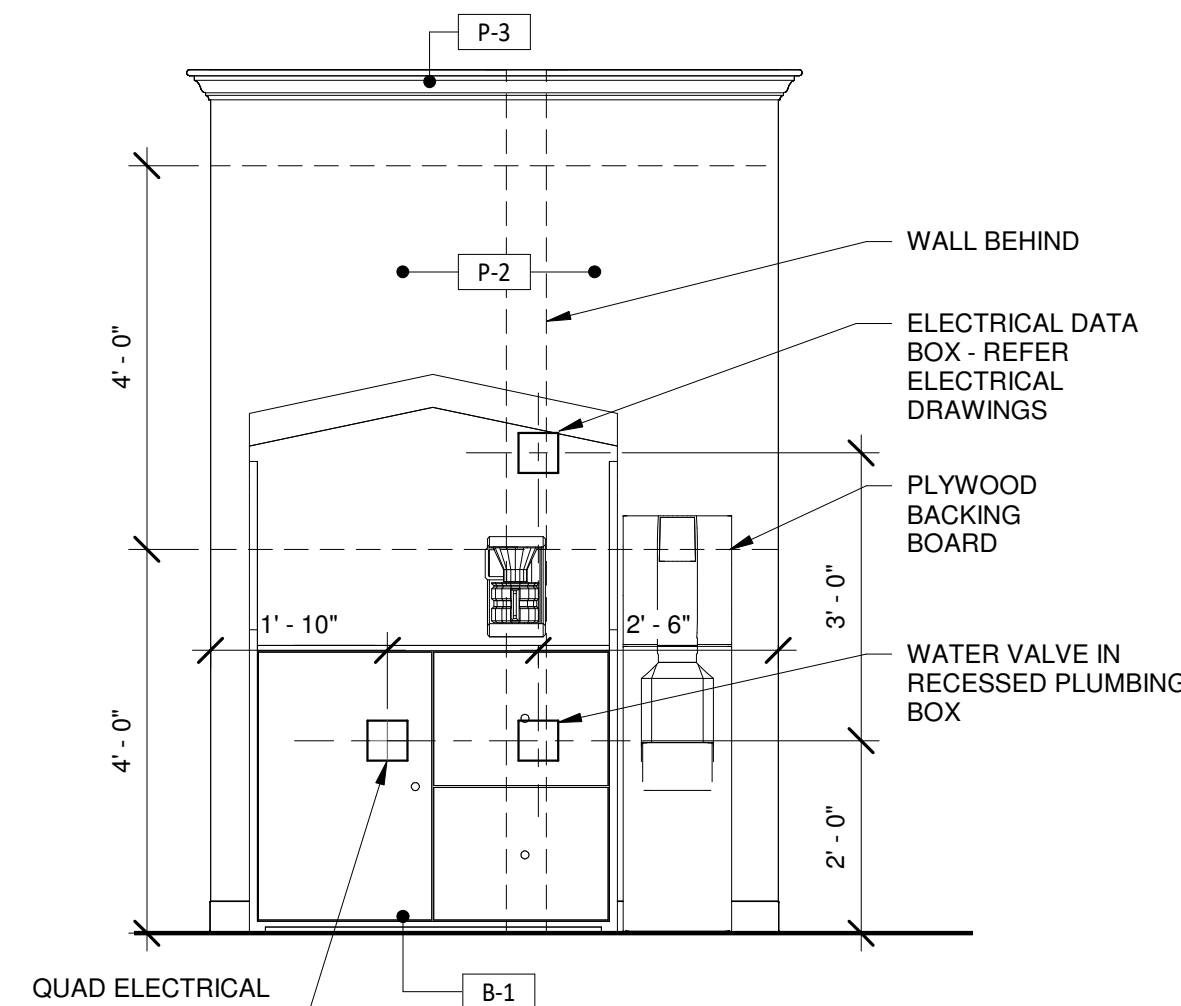
NOTE:
 G.C. TO VERIFY STUD SIZE & SPACING PER A1/A111
 ALL DRYWALL SHALL BE PATCHED & REPAIRED TO A SMOOTH, LEVEL SURFACE FREE OF VISIBLE IMPERFECTIONS



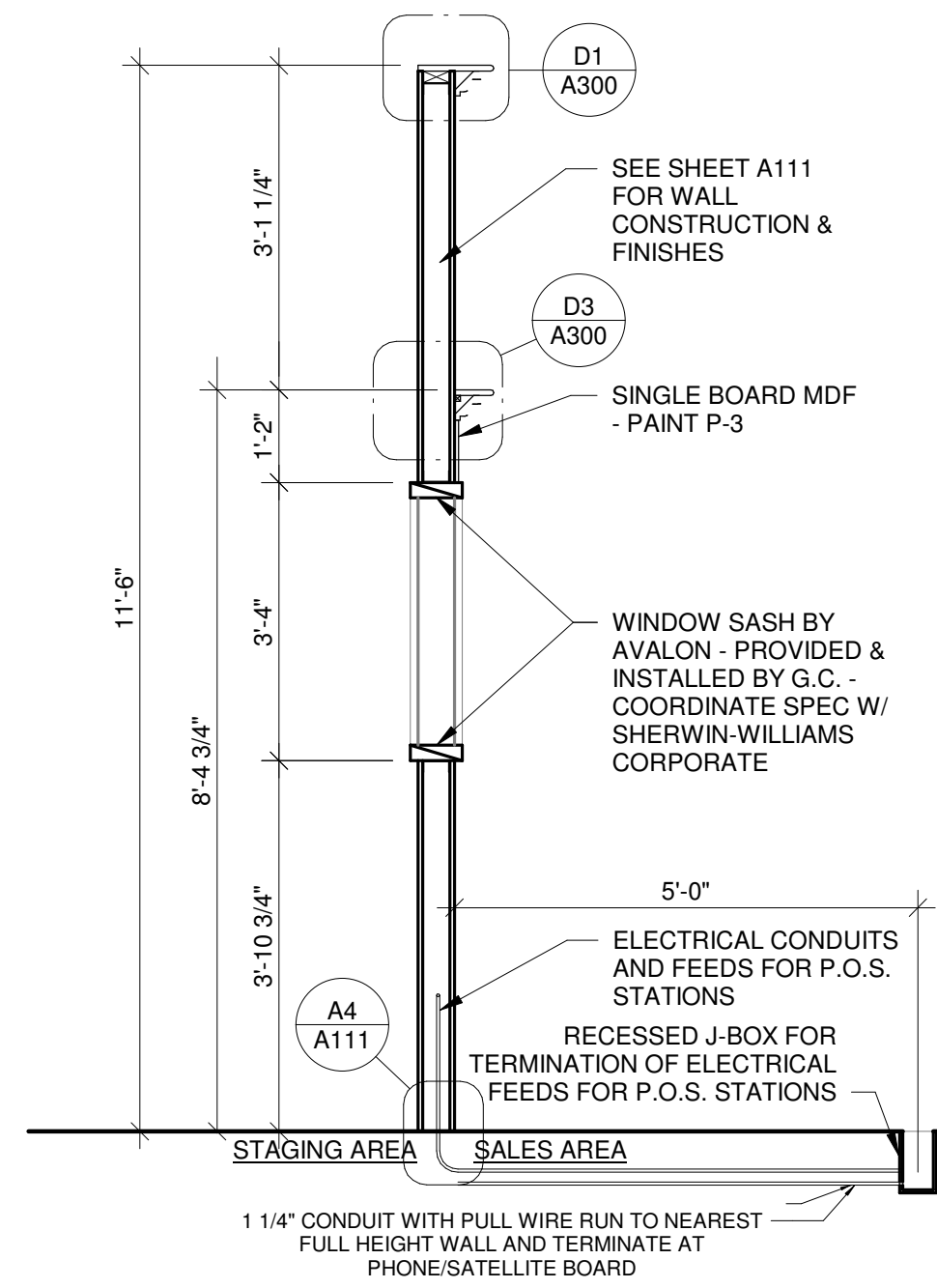
WALL TYPE "A"

- A1 3 5/8" METAL STUD
- A2 3 5/8" METAL STUD W/ BATT INSULATION
- A3 6" METAL STUD
- A4 6" METAL STUD W/ BATT INSULATION
- A5 3 5/8" METAL STUD W/ PLYWOOD BLOCKING

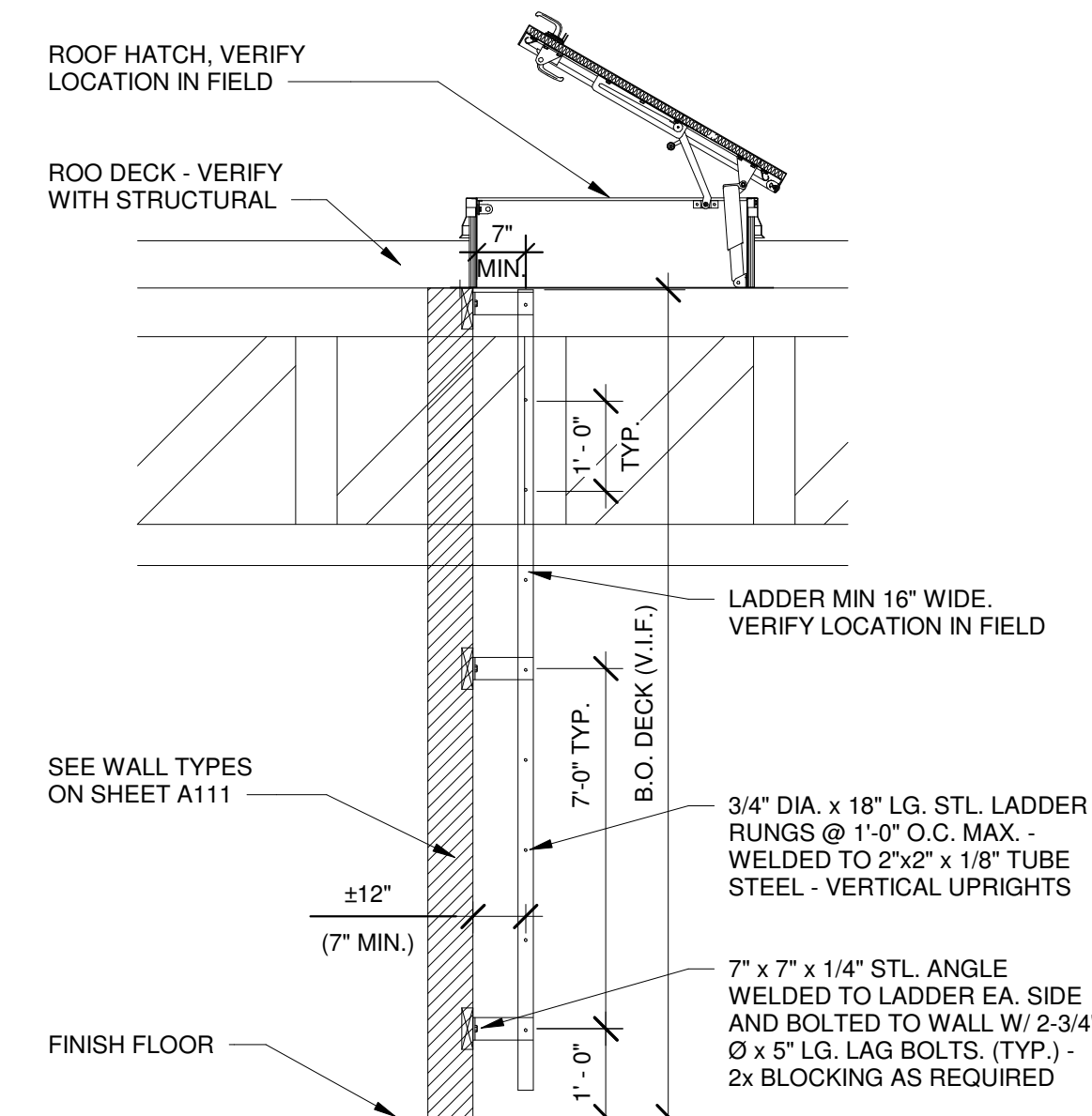
C1 WALL TYPE A SECTION
 1 1/2" = 1'-0"



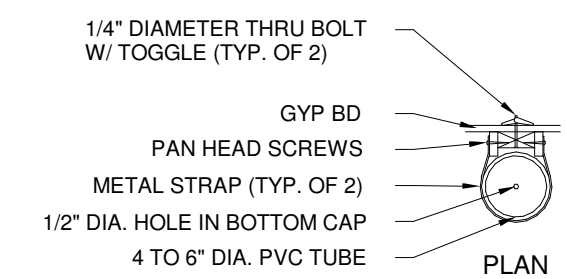
C2 "T" WALL DETAIL
 1/2" = 1'-0"



C3 SECTION AT ACCENT WALL
 1/2" = 1'-0"

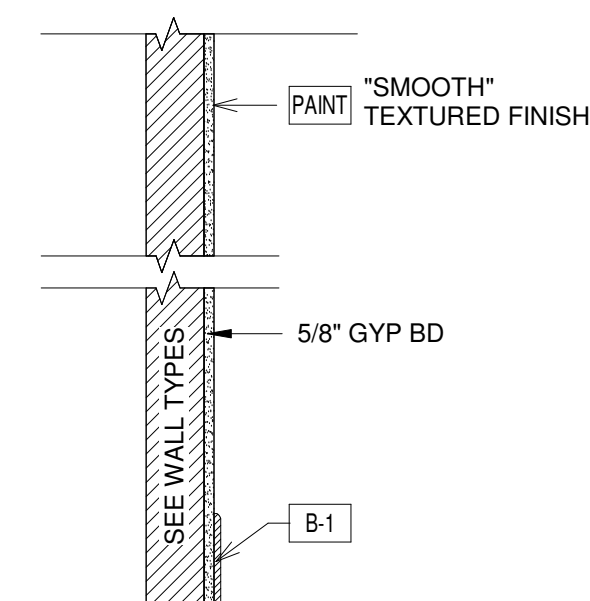


C4 SECTION AT ROOF LADDER, TYP.
 N.T.S.

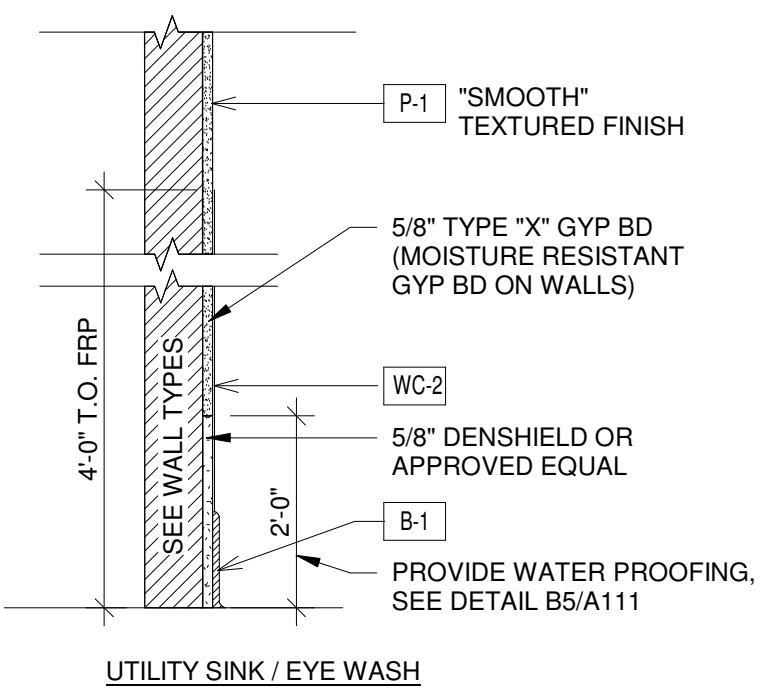


NOTE: UPON COMPLETION OF THE PROJECT, GENERAL CONTRACTOR MUST RUN A NEW BLUEPRINT SET FOR THE COMPLETED STORE DRAWINGS (ARCHITECTURAL, MECHANICAL, AND ELECTRICAL) AND PLACE BLUEPRINTS INTO THE PLAN TUBE HOLDER, LABEL (WITH CLEAR TAPE) STATING THIS TUBE CONTAINS STORE DRAWINGS AND IS NOT TO BE REMOVED WITHOUT THE CONSENT OF THE STORE MANAGER. TENANT G.C. TO SUPPLY AND INSTALL DRAWING TUBE ASSEMBLY ABOVE DOOR OR OTHER APPROVED LOCATION TO BE DETERMINED.

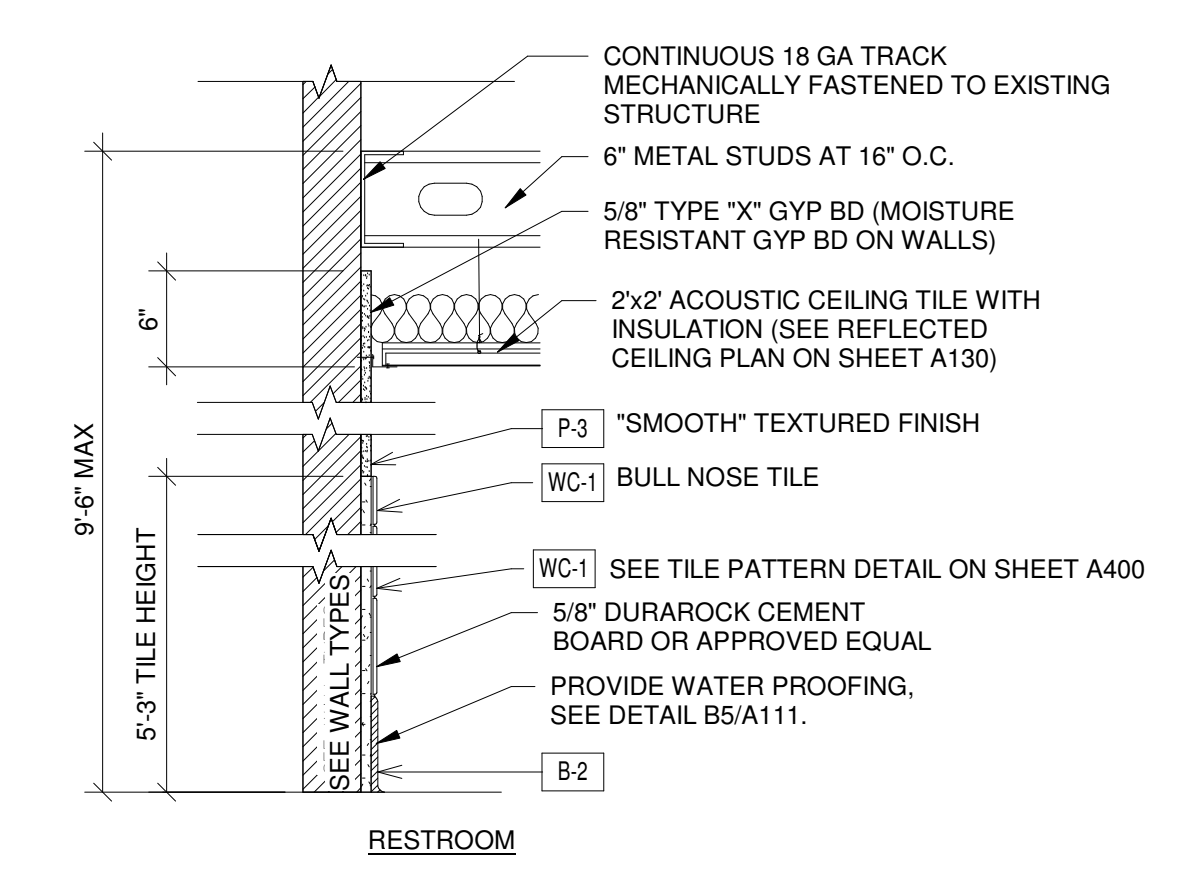
C5 PLANS STORAGE, TYP.
 N.T.S.



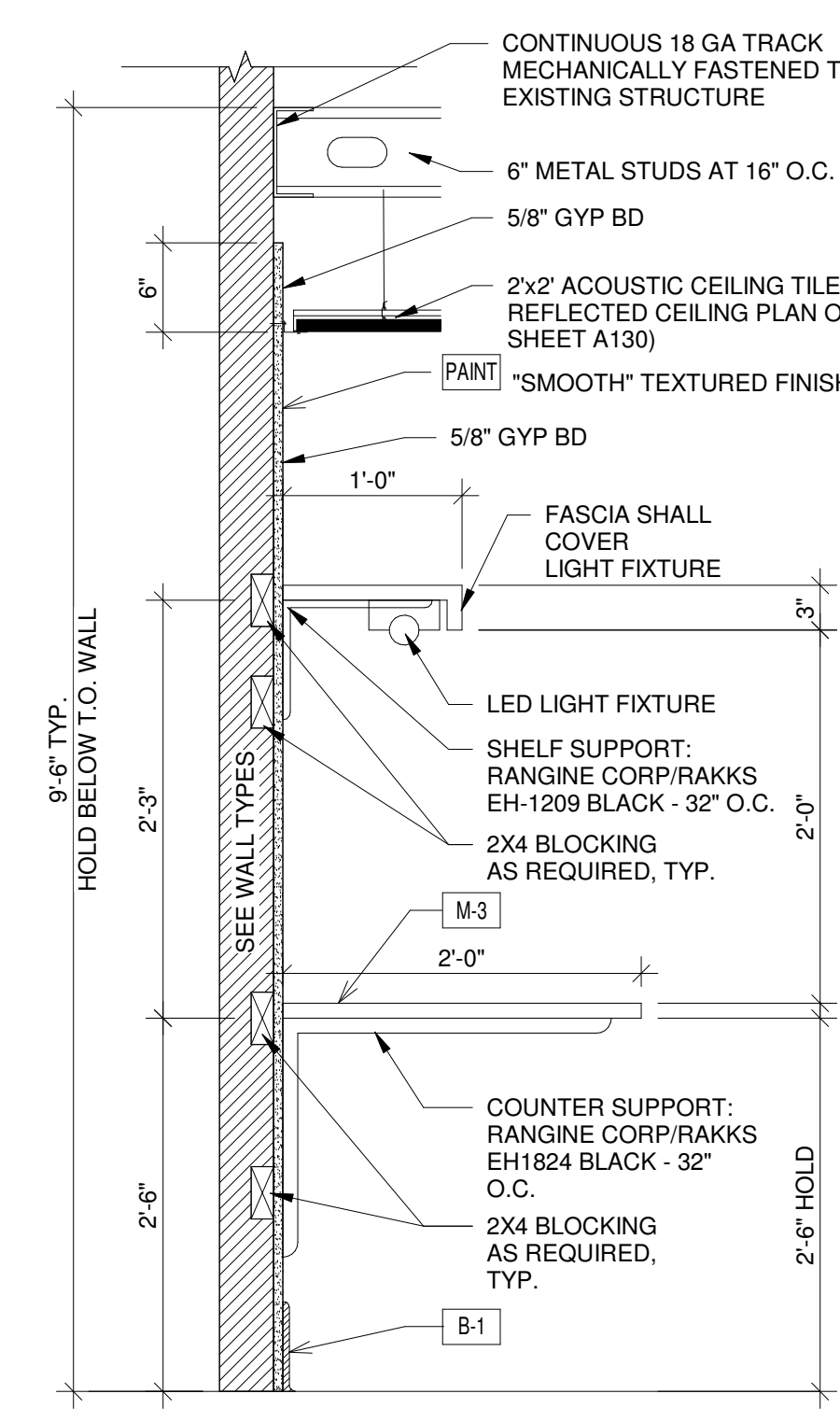
B1 WALL FINISH 1 (SALES & WHOLESALE)
 1" = 1'-0"



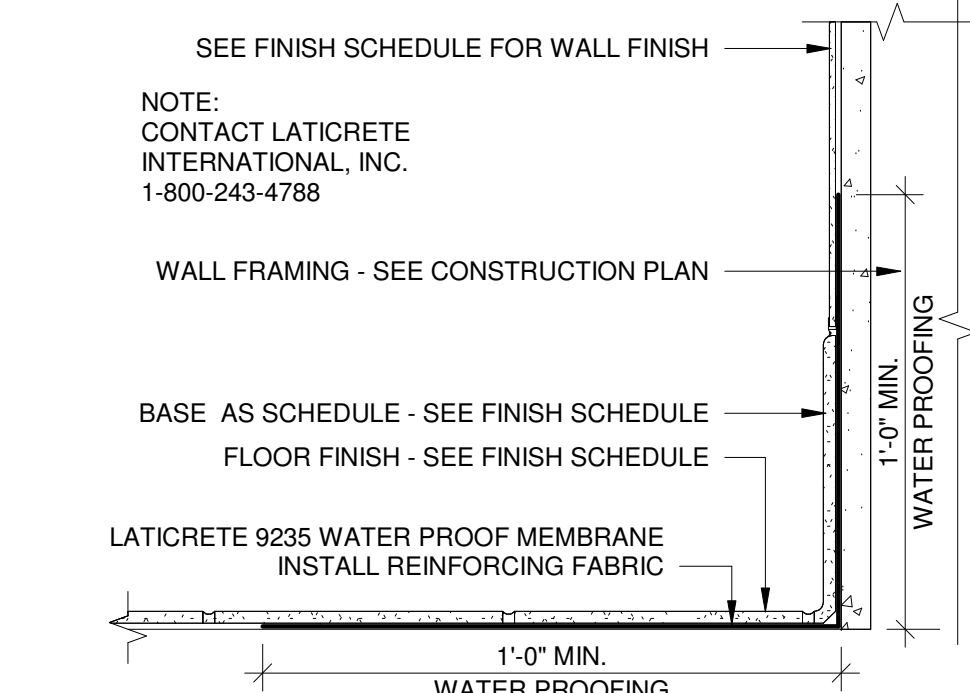
B2 WALL FINISH 2 (UTILITY SINK)
 1" = 1'-0"



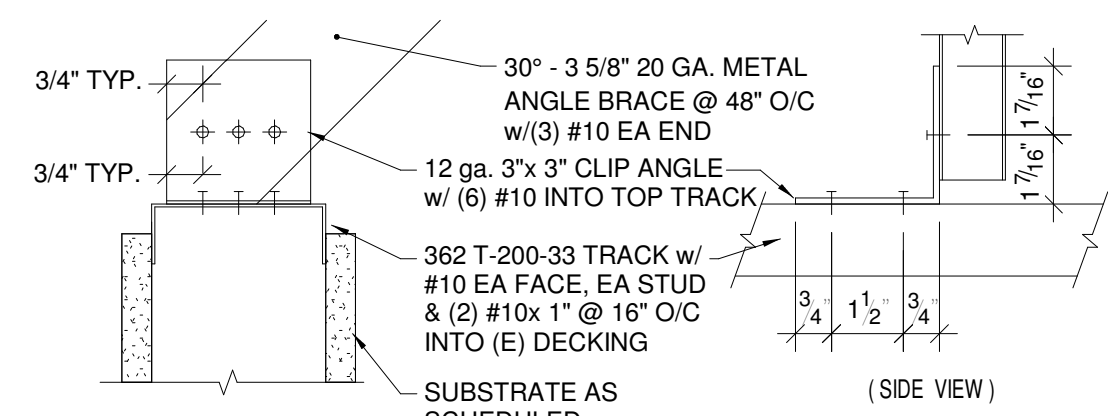
B3 WALL FINISH 3 (RESTROOM)
 1" = 1'-0"



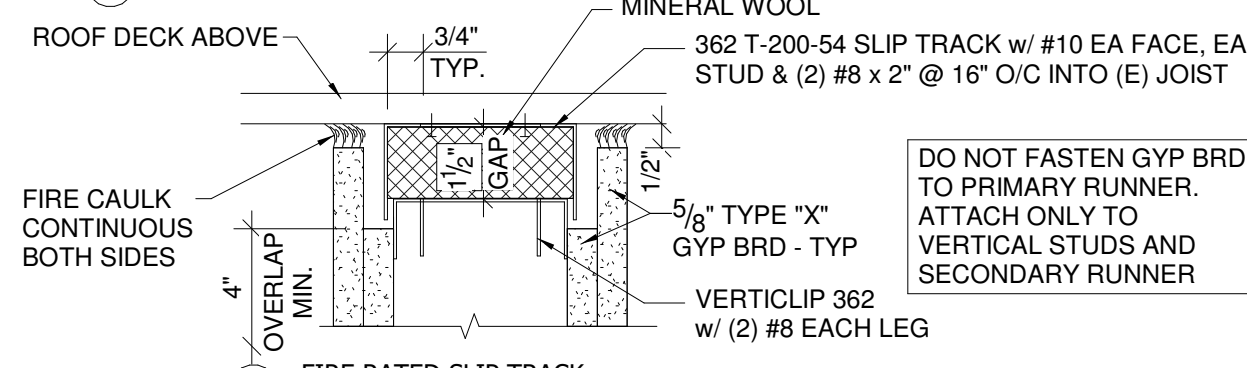
B4 WALL FINISH 4 (OFFICE)
 1" = 1'-0"



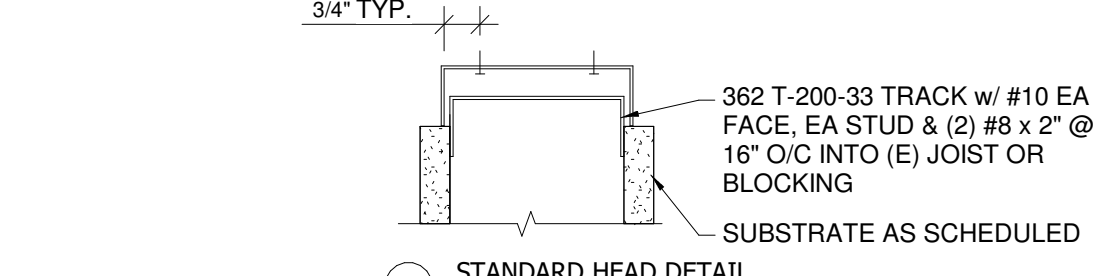
B5 TYPICAL WATERPROOFING DETAIL
 3" = 1'-0"



A TRACK @ BRACING



B FIRE RATED SLIP TRACK



C STANDARD HEAD DETAIL

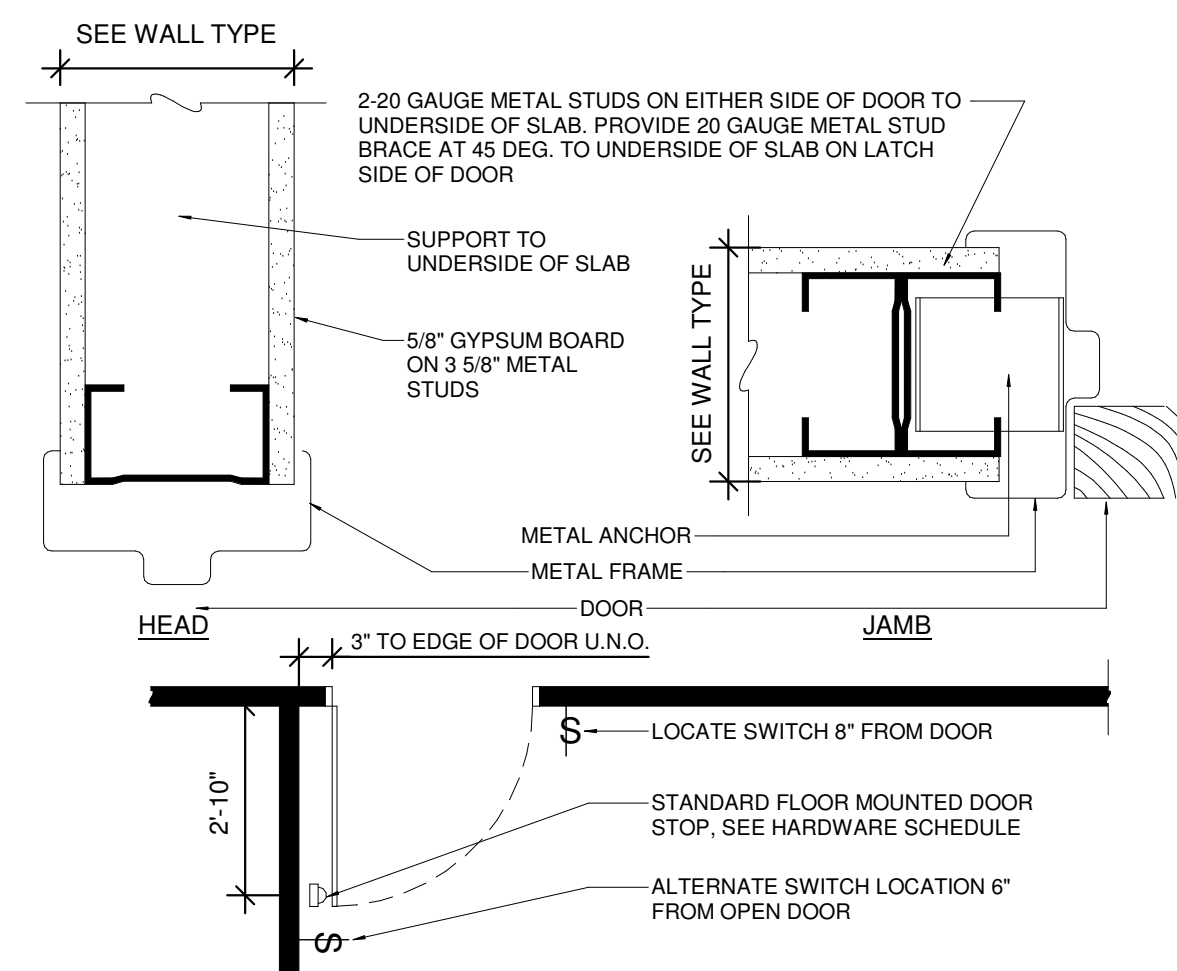
TYPICAL INTERIOR NON-LOAD BEARING STUD WALL - SLIP TRACK AT TOP

STUDS TO BE USED (ICC-ES ESR-3016):

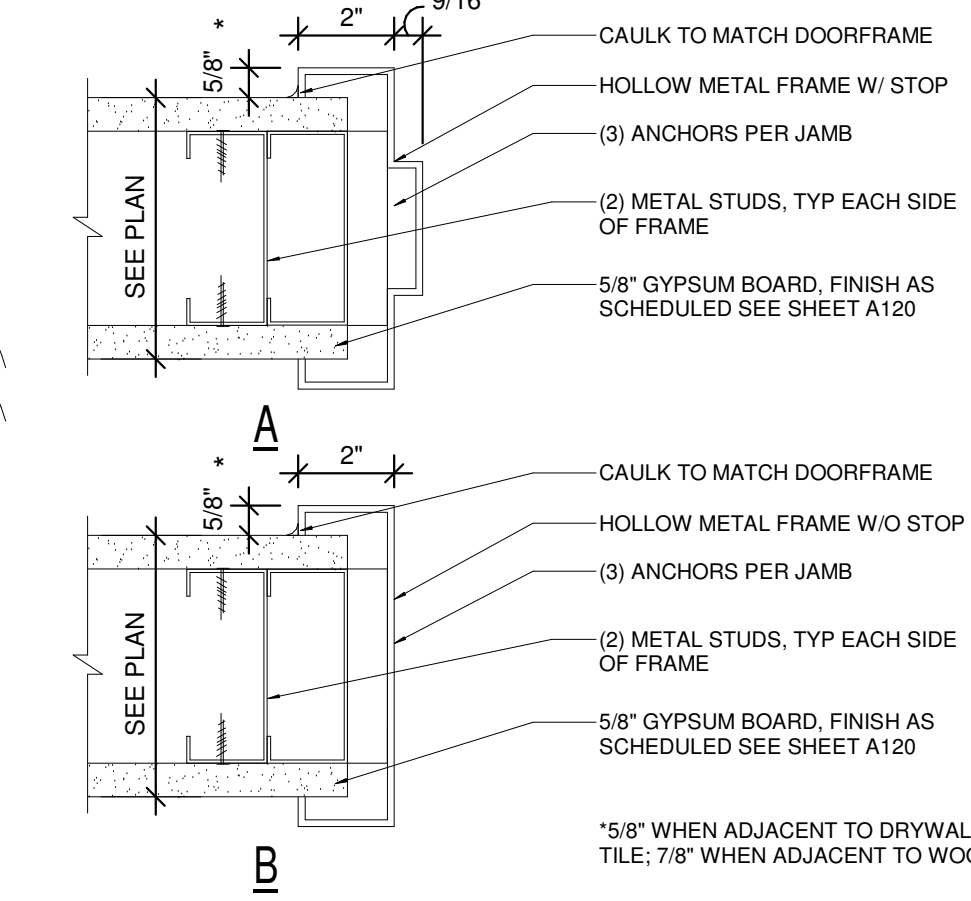
SIZE	SPACING	ALLOWABLE HEIGHT	BOTTOM TRACK GAUGE	TOP - "SLIP" TRACK GAUGE (3" DEEP TRACK)
3 5/8" - 25G STN	16"	15.4'	20	18
3 5/8" - 20G STR	16"	17.0'	20	18
3 5/8" - 18 G HDS	16"	22.6'	20	18
6" - 20G STR	16"	24.5'	20	18
6" - 18G HDS	16"	33.6'	20	18

NOTES:
 BUILDING CODE REQUIRES THAT INTERIOR PARTITION WALLS BE DESIGNED FOR A LATERAL LOAD OF 5 PSL. THE FOLLOWING GUIDELINES ARE BASED ON THIS LOAD. ALL STUDS GIVEN ARE ASSUMED TO BE EQUIVALENT TO THOSE MANUFACTURED BY DETRICH INDUSTRIES, INC. ALL STUDS AND TRACKS ARE ASSUMED TO HAVE AN Fy = 33.0 KSI. ALL STUDS ARE ASSUMED TO HAVE 3/8" GYP BD ON BOTH FACES FOR THE FULL HEIGHT OR ARE PROVIDED WITH BRIDGING AS REQUIRED. DETAILS ARE PROVIDED TO ACCOMMODATE VERTICAL MOVEMENT AT THE TOP USING A 3" DEEP TRACK CONNECTION OR NO MOVEMENT. MAXIMUM HORIZONTAL DEFLECTION IS ASSUMED TO BE LIMITED TO H/240. PROVIDE LATERAL BRACING PER SCHEDULE.

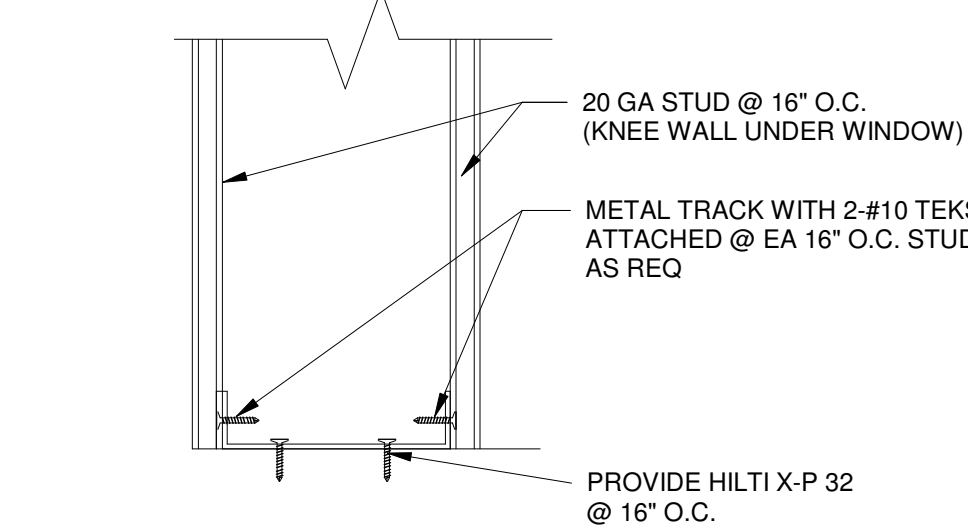
- BOTTOM TRACK GAGES MAY BE SUBSTITUTED FOR TOP-SLIP TRACK GAGES IF STUDS ARE PERMANENTLY ATTACHED TO BOTH FLANGES OF THE TRACK WITH #10 SCREWS.
- ATTACH BOTTOM TRACK TO SLAB WITH HILTI X-DNI 32 PRS15 @ 3'-0" O.C. VERTICALLY.
- IF GYP BD IS ON ONE SIDE ONLY, ADD HORIZONTAL BRIDGING AT 5'-0" O.C.
- IF YOU HAVE A CASE THAT DIFFERS FROM THE ABOVE, PLEASE CONTACT THE ARCHITECT.



A2 TYP. DOOR JAMB & PLACEMENT DETAIL
 3" = 1'-0"



A3 TYPICAL DOOR JAMB DETAILS
 3" = 1'-0"

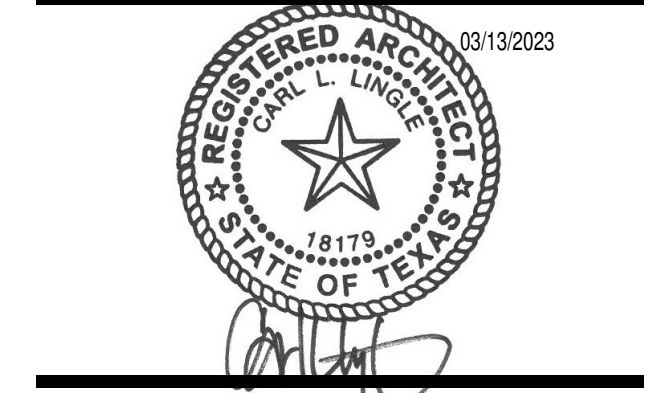


A4 TYP. FLOOR CONNECTION DETAIL
 3" = 1'-0"

A5 HEAD TRACK DETAILS
 3" = 1'-0"

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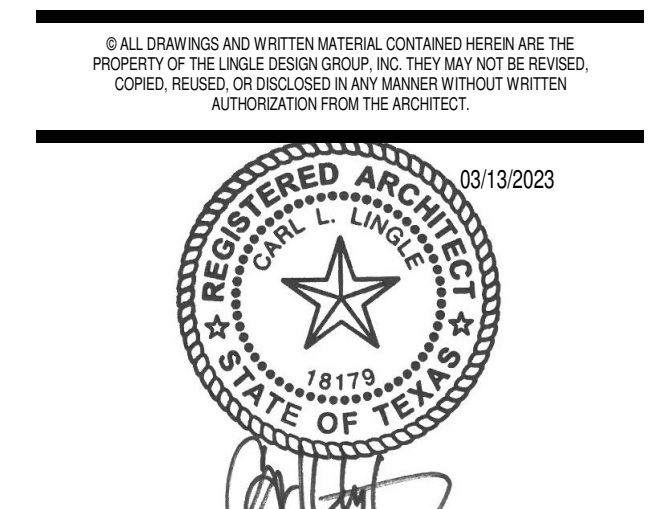
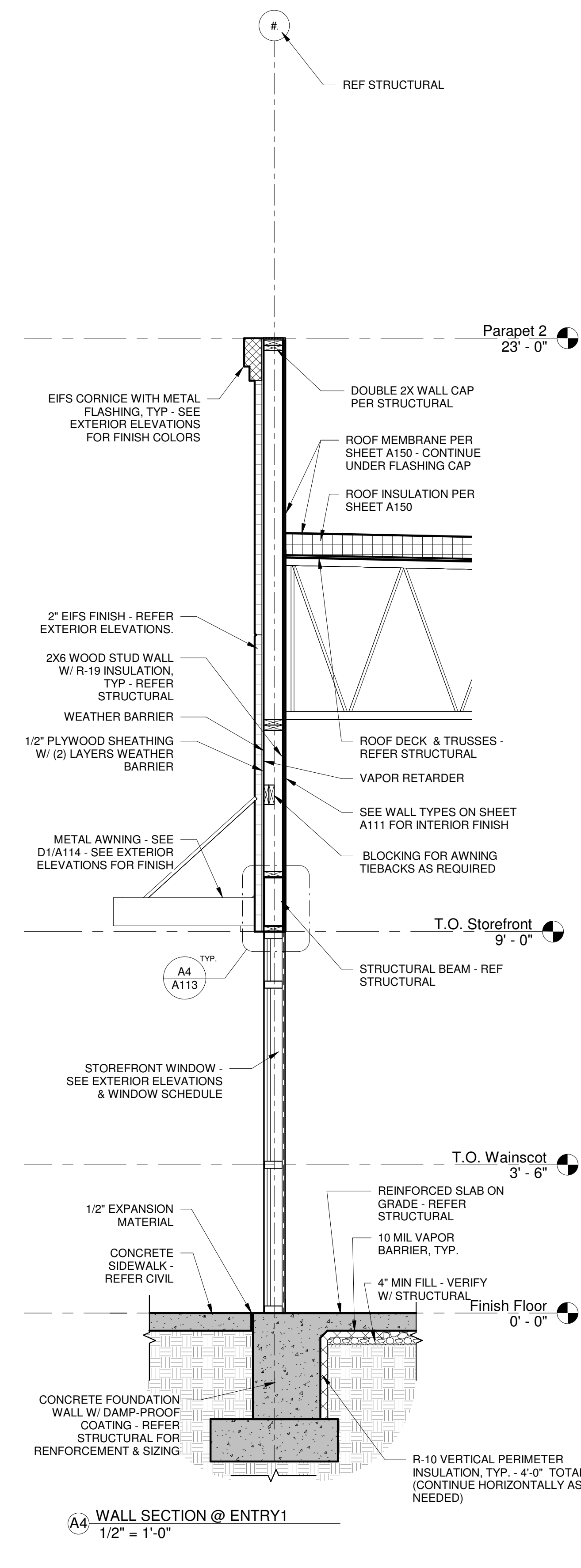
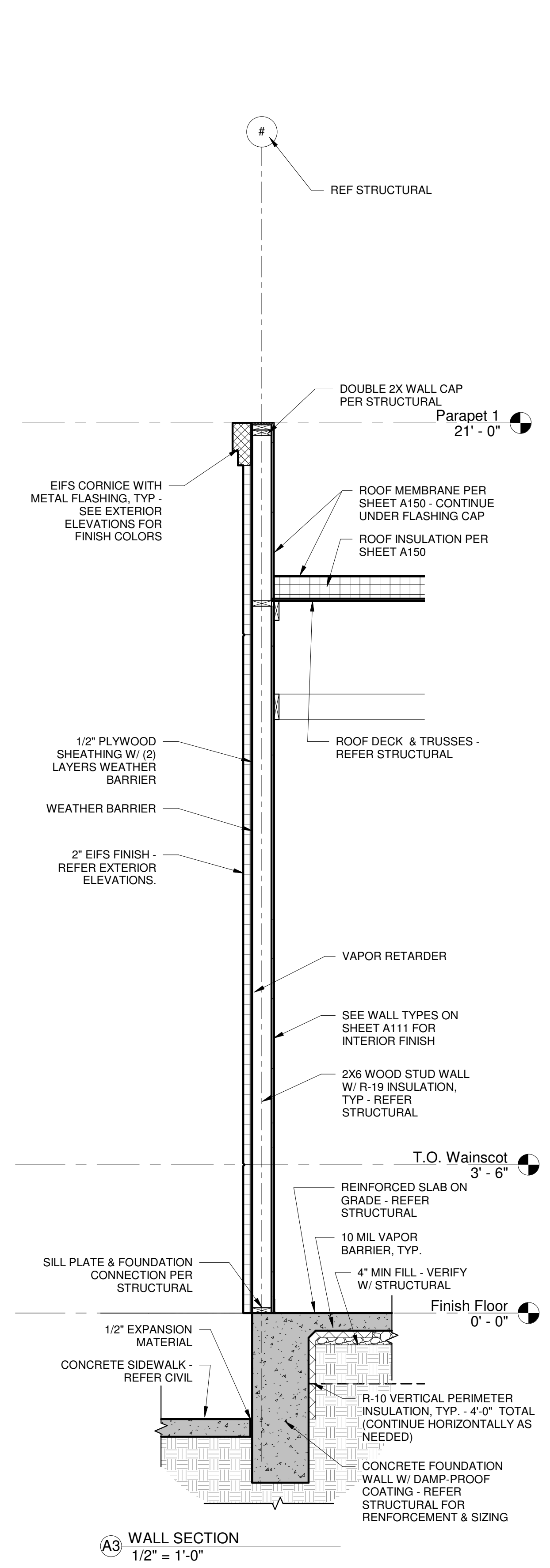
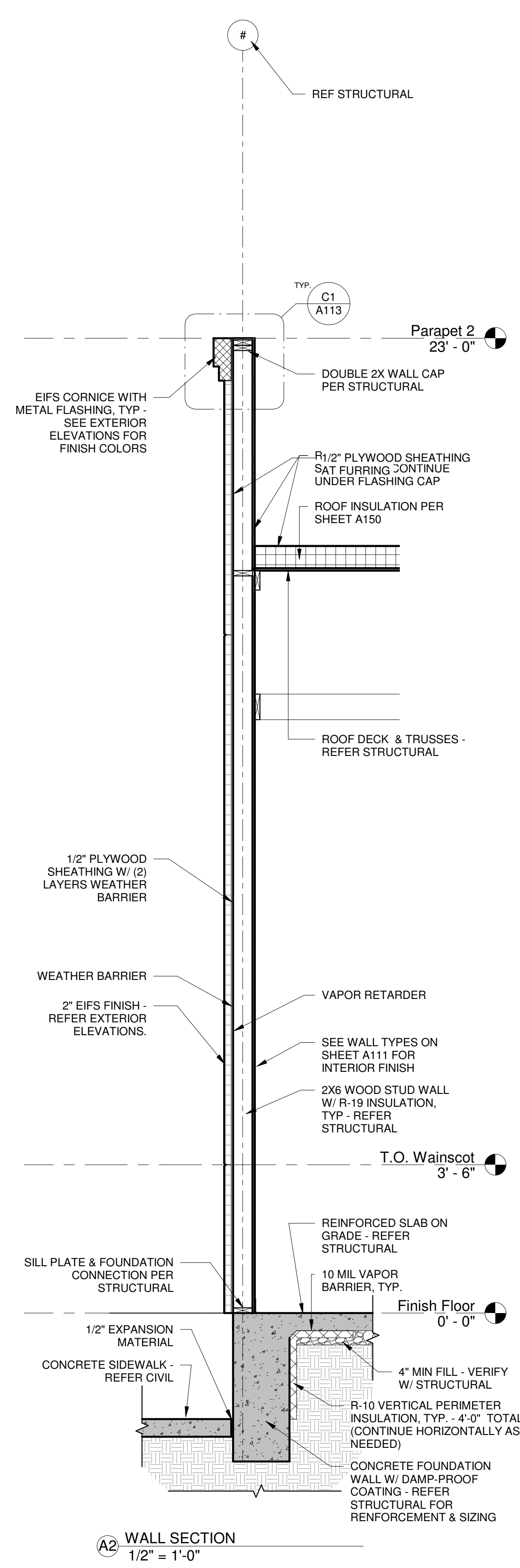
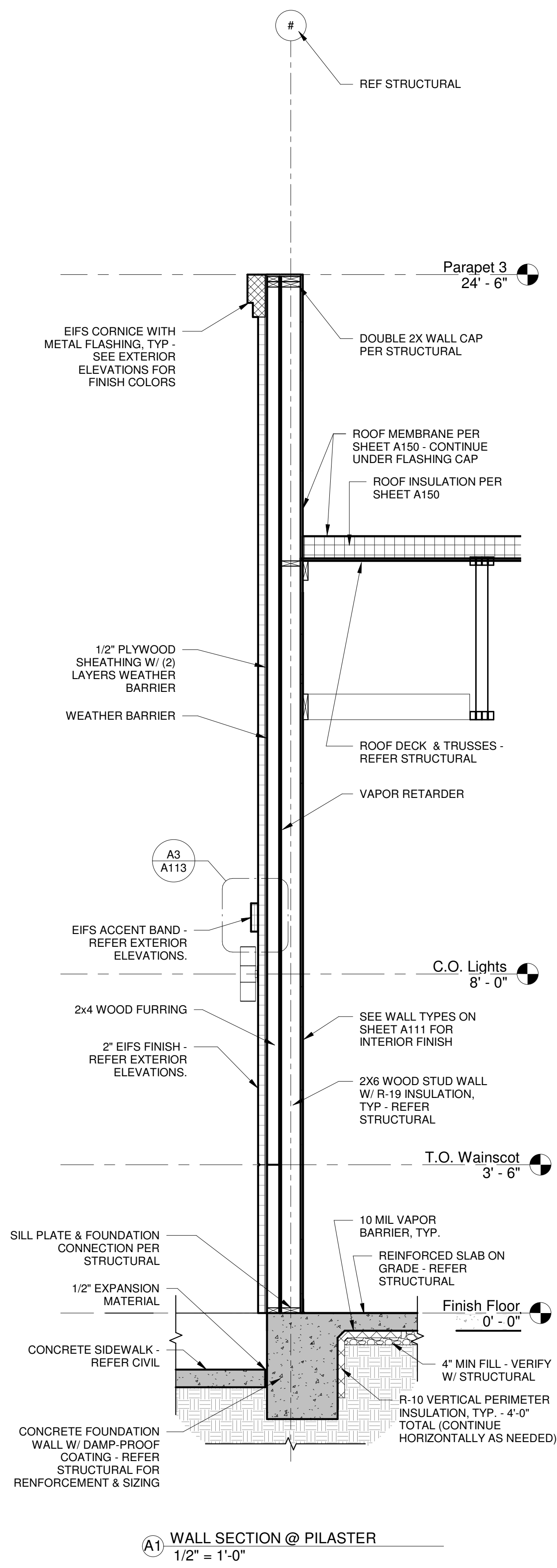
SHERWIN WILLIAMS

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 XXXX
 ADDRESS:
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 FAIR OAKS RANCH, TX
 78015

Wall Types & Details

SHEET NUMBER:

A111



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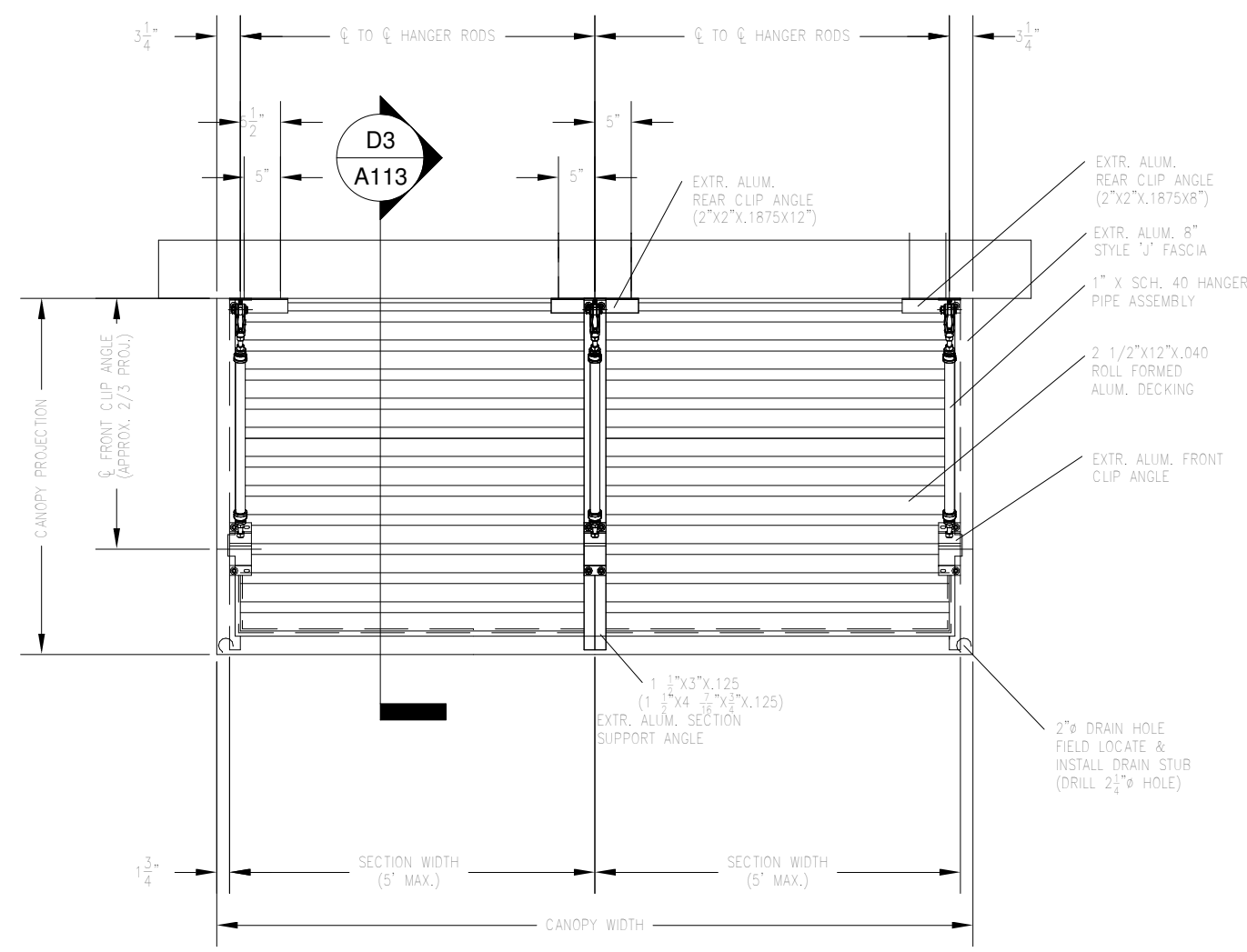
STORE #:
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 ADDRESS:
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 FAIR OAKS RANCH, TX
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SHEET TITLE:

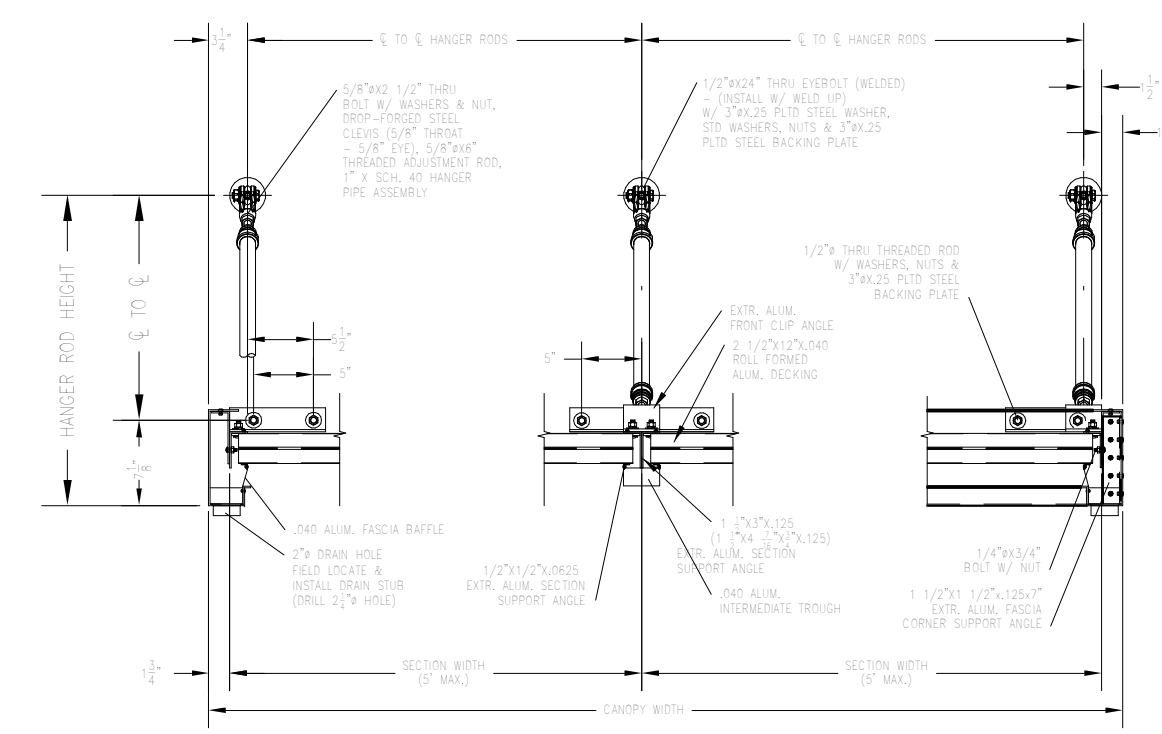
Exterior Wall Types

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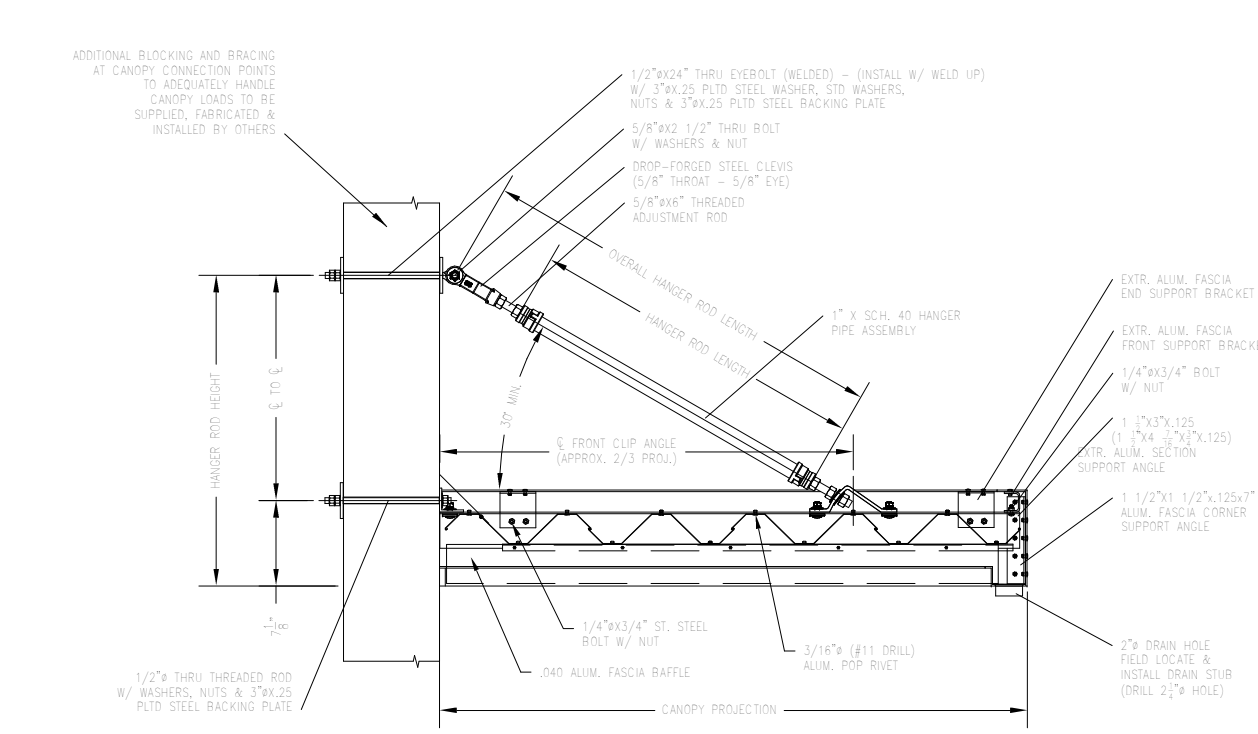
A112



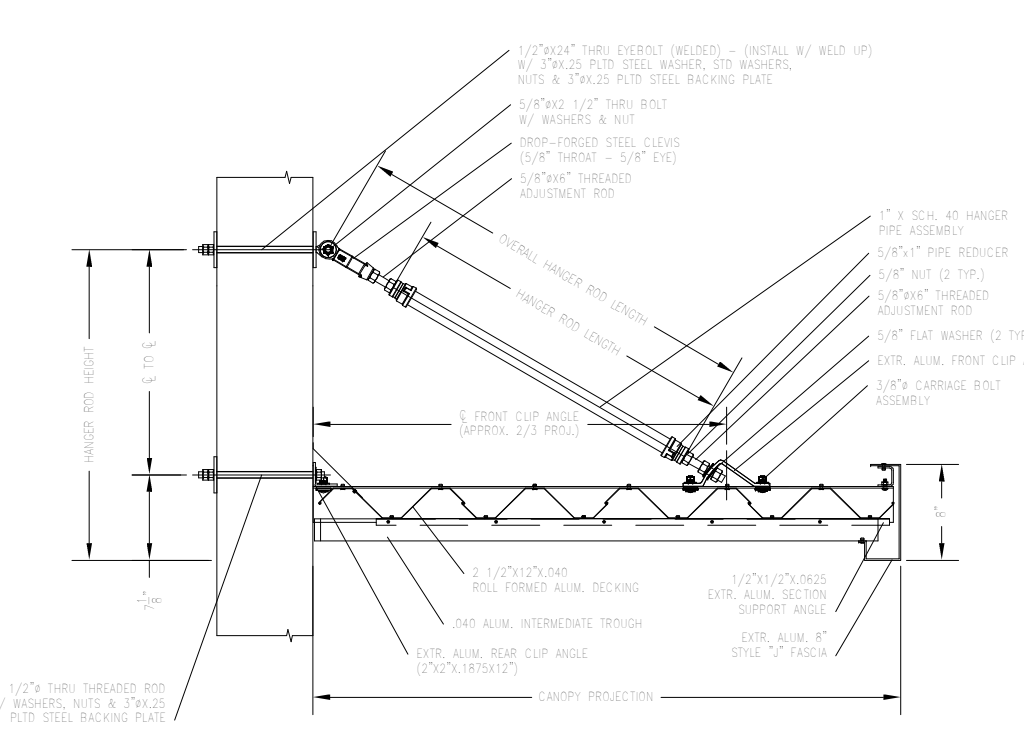
D1 AWNING PLAN
1/2" = 1'-0"



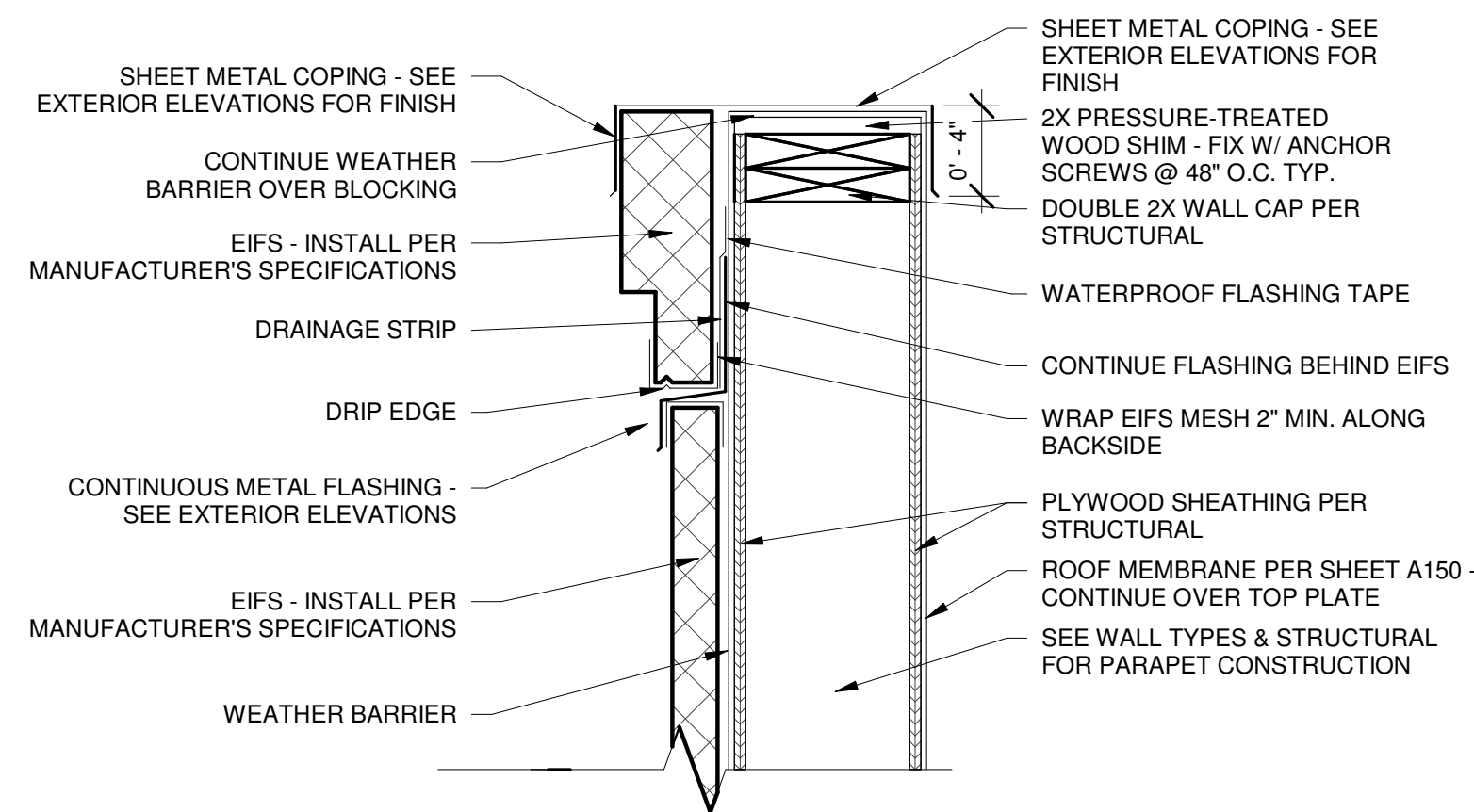
D2 AWNING DETAIL
3/4" = 1'-0"



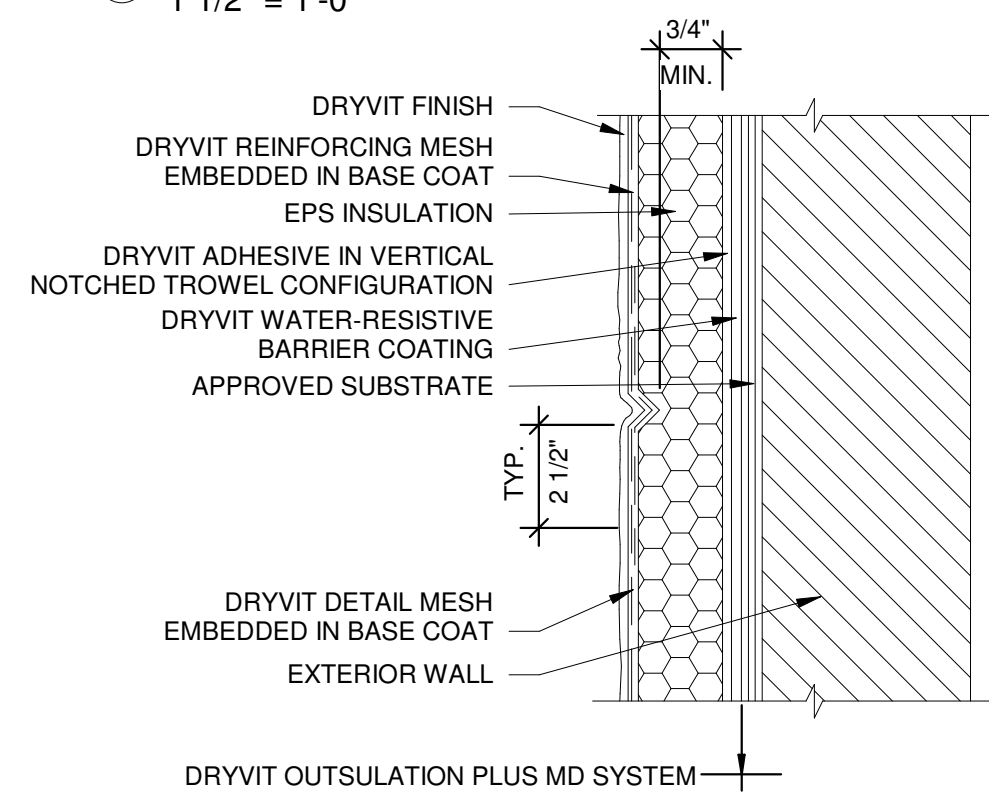
D3 AWNING SECTION
3/4" = 1'-0"



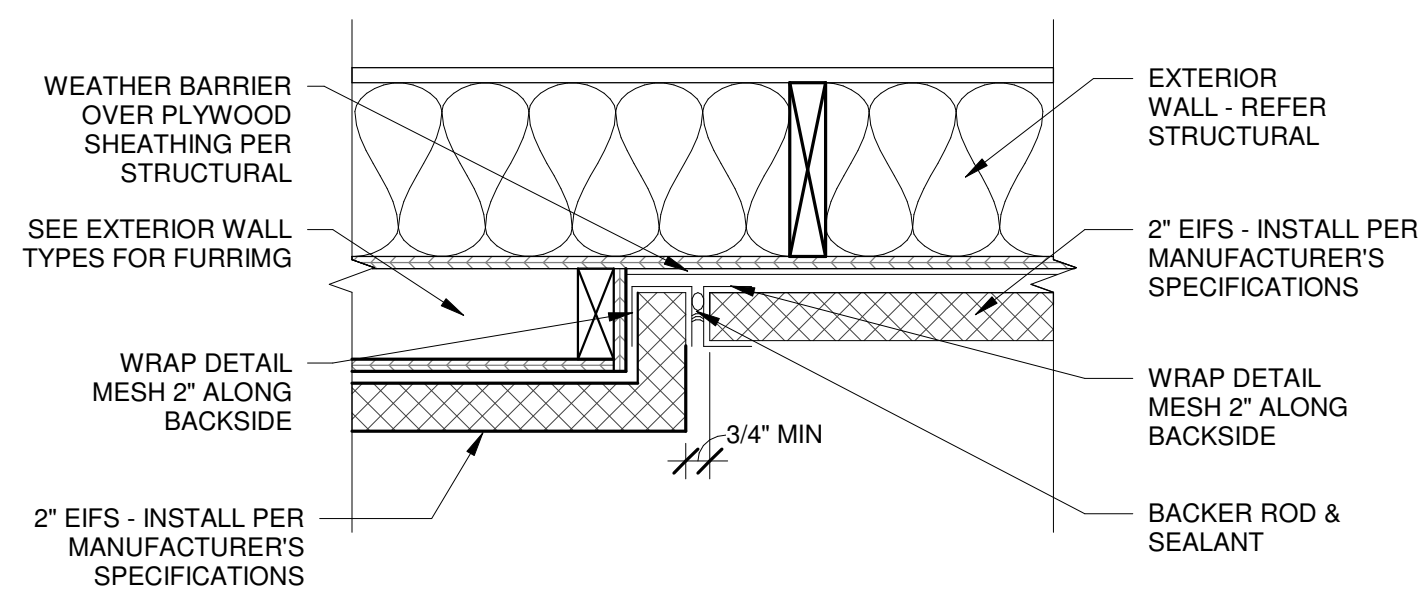
D4 AWNING SECTION
3/4" = 1'-0"



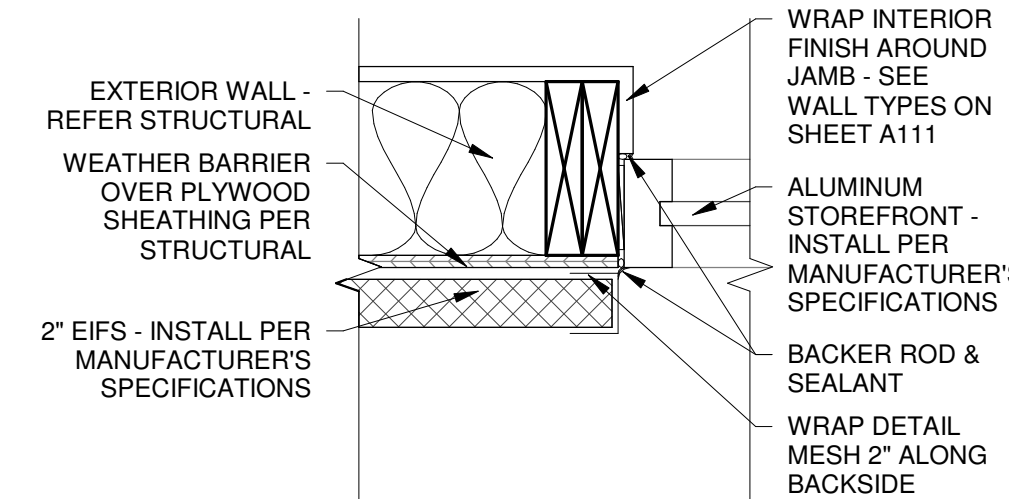
C1 SECTION AT EIFS PARAPET
1 1/2" = 1'-0"



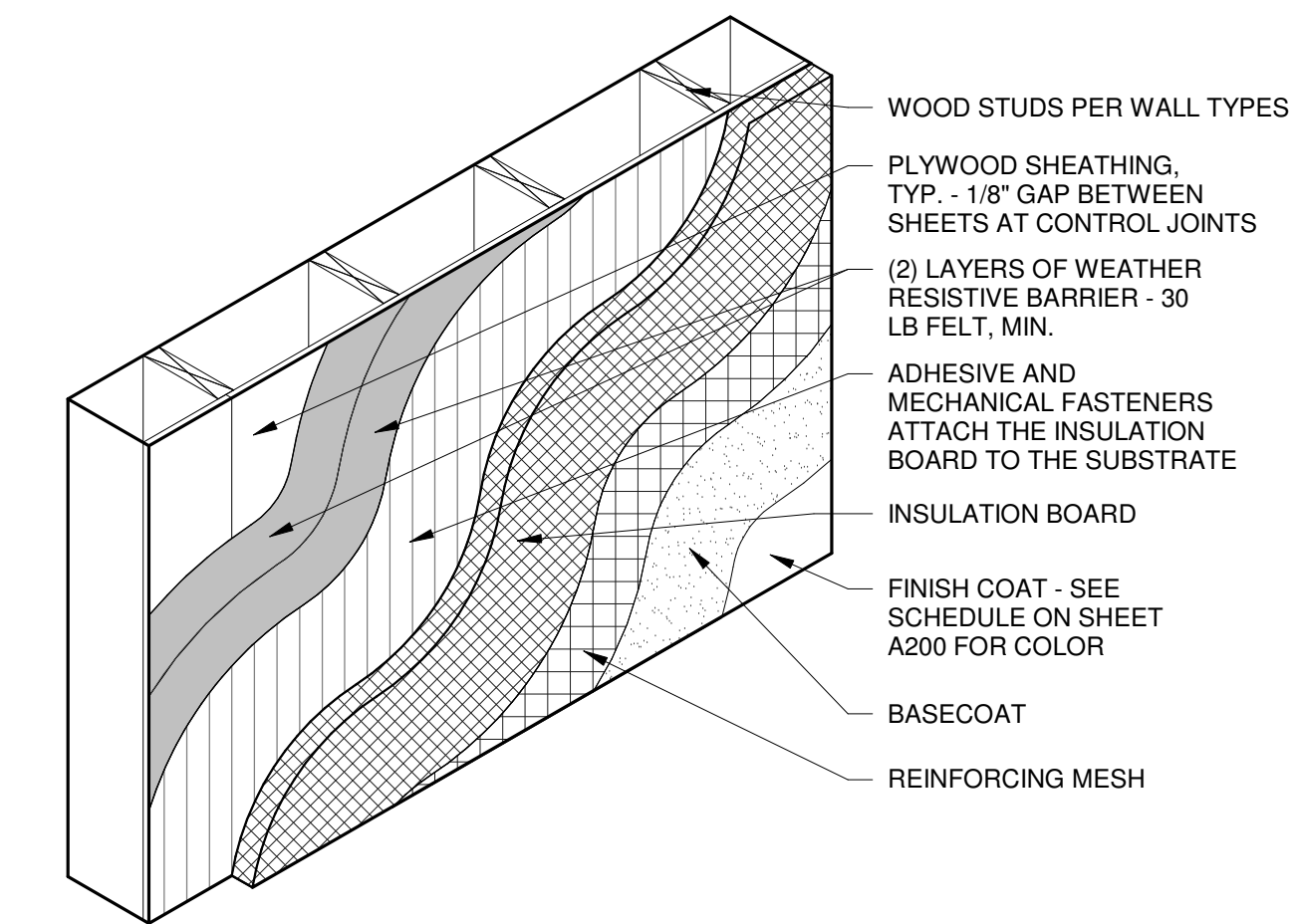
B1 TYPICAL EIFS REVEAL
N.T.S.



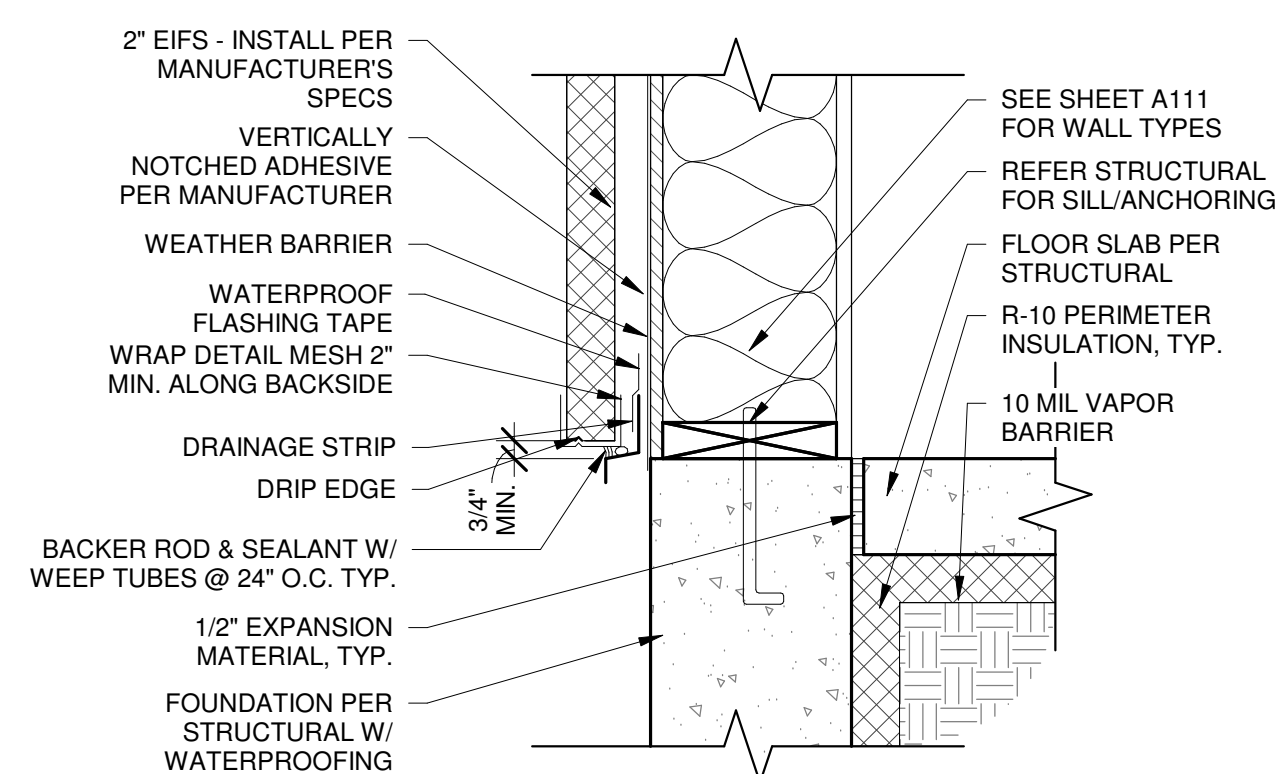
B2 VERTICAL TRANSITION AT EIFS ON PILASTER 2
1 1/2" = 1'-0"



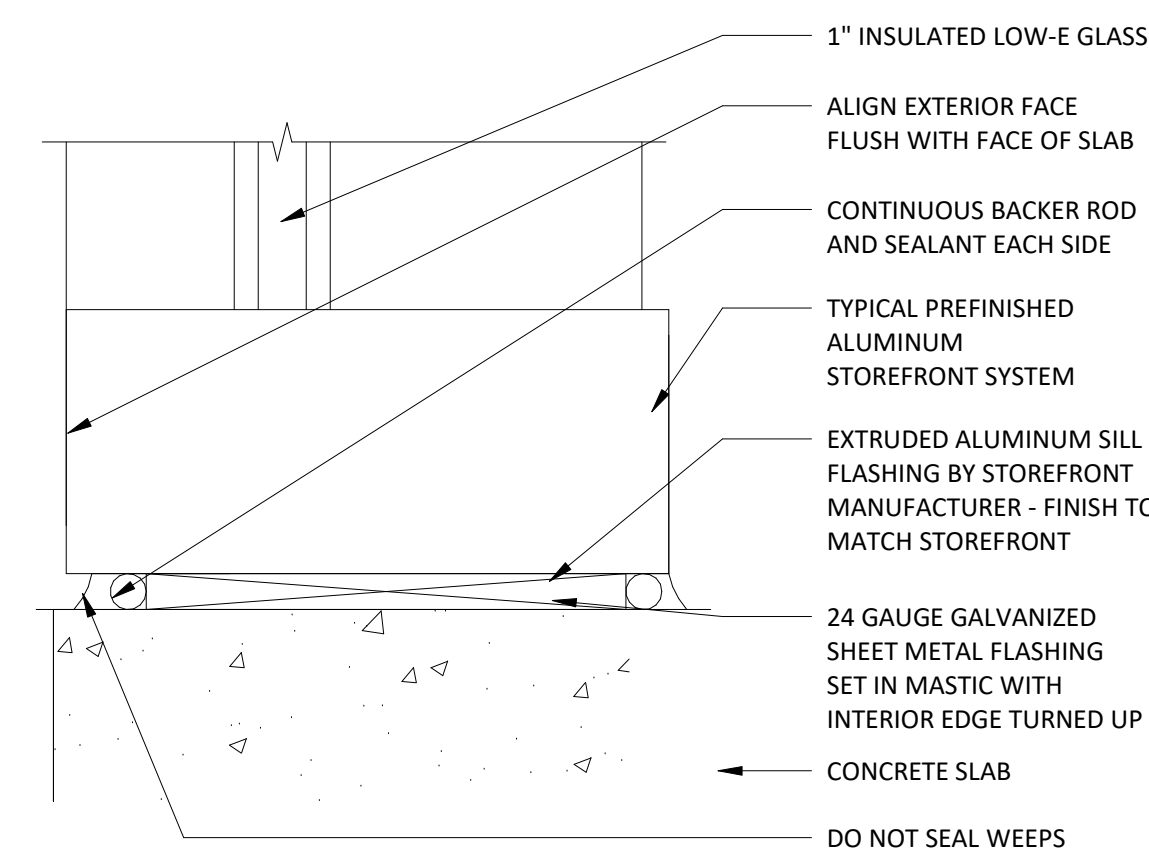
B3 VERTICAL TRANSITION AT EIFS & STOREFRONT
1 1/2" = 1'-0"



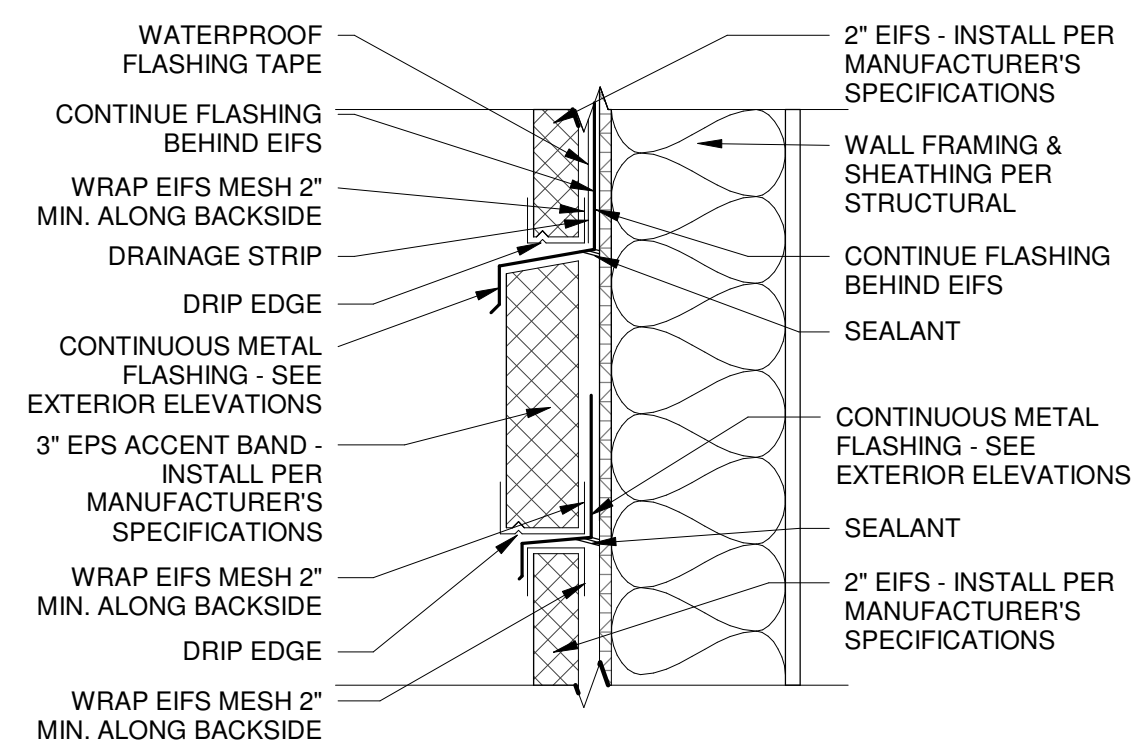
B4 EIFS FINISH AT WOOD SHEATHING
3/4" = 1'-0"



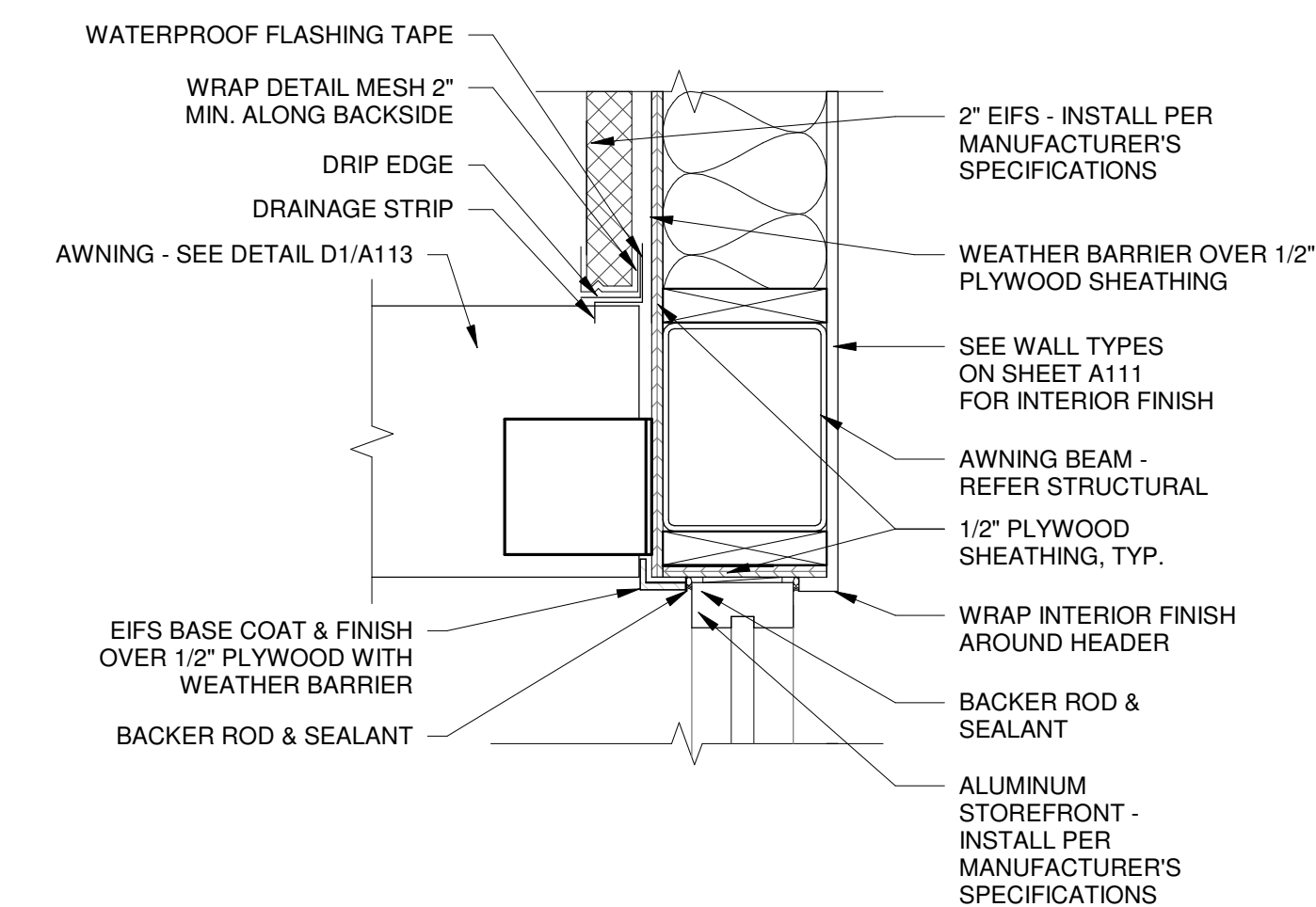
A1 BASE AT EIFS FINISH
1 1/2" = 1'-0"



A2 STOREFRONT SILL DETAIL
6" = 1'-0"



A3 SECTION AT EPS ACCENT BAND
1 1/2" = 1'-0"



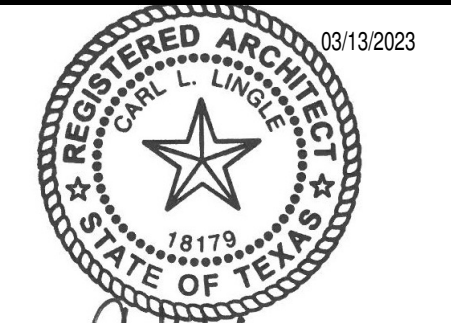
A4 AWNING BEAM AT STOREFRONT & EIFS
1 1/2" = 1'-0"



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SHERWIN WILLIAMS

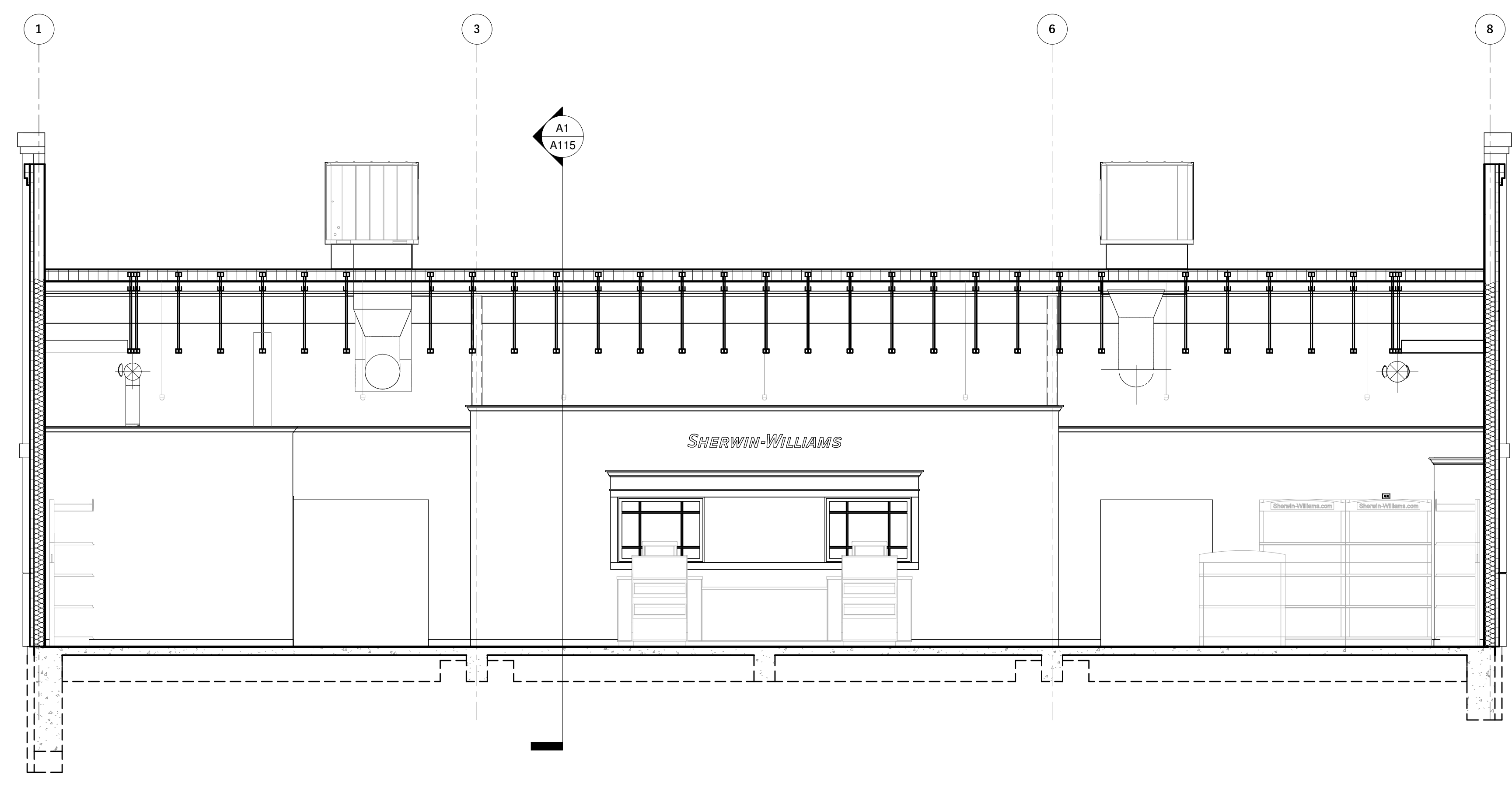
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 ADDRESS:
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 FAIR OAKS RANCH, TX
 78015

SHEET TITLE:

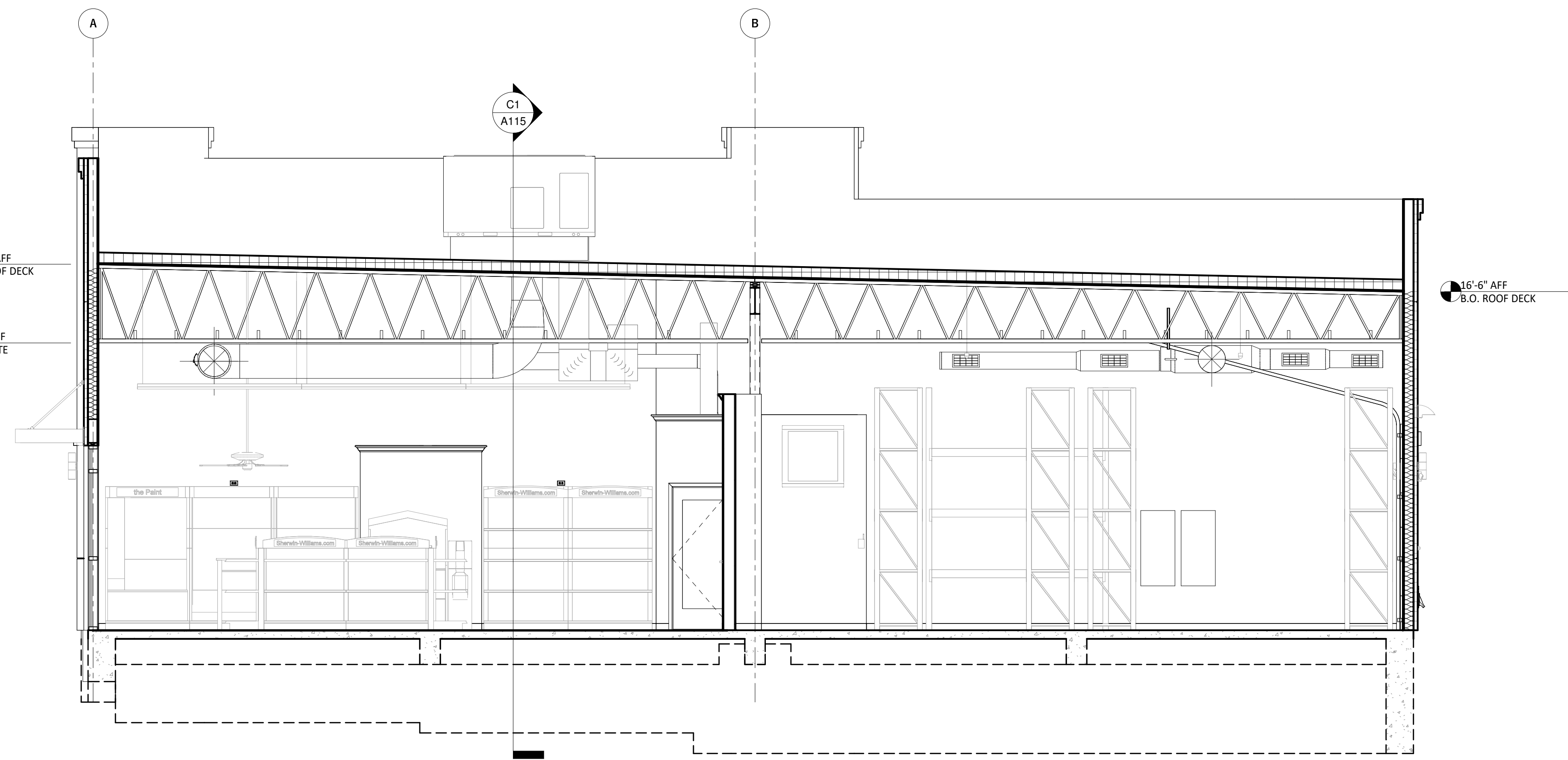
Building Sections

SHEET NUMBER:

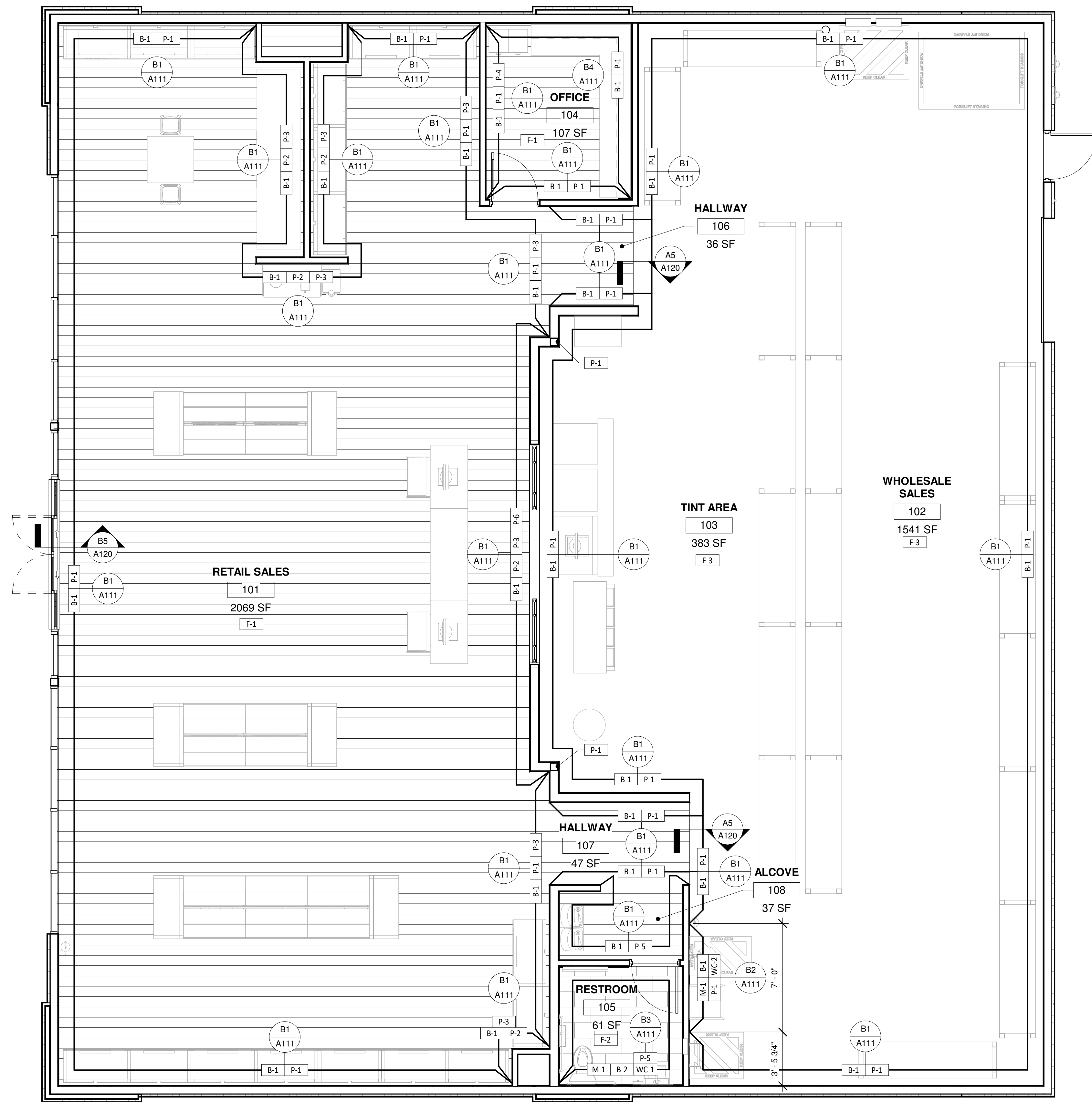
A115



C1 BUILDING SECTION
 1/4" = 1'-0"



A1 BUILDING SECTION
 1/4" = 1'-0"

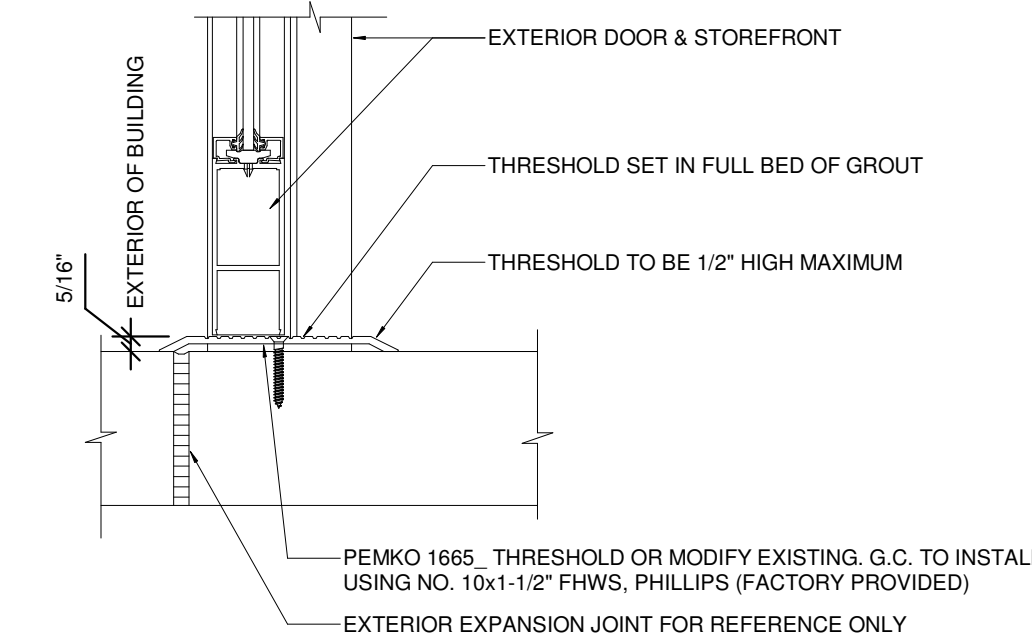


GENERAL NOTES

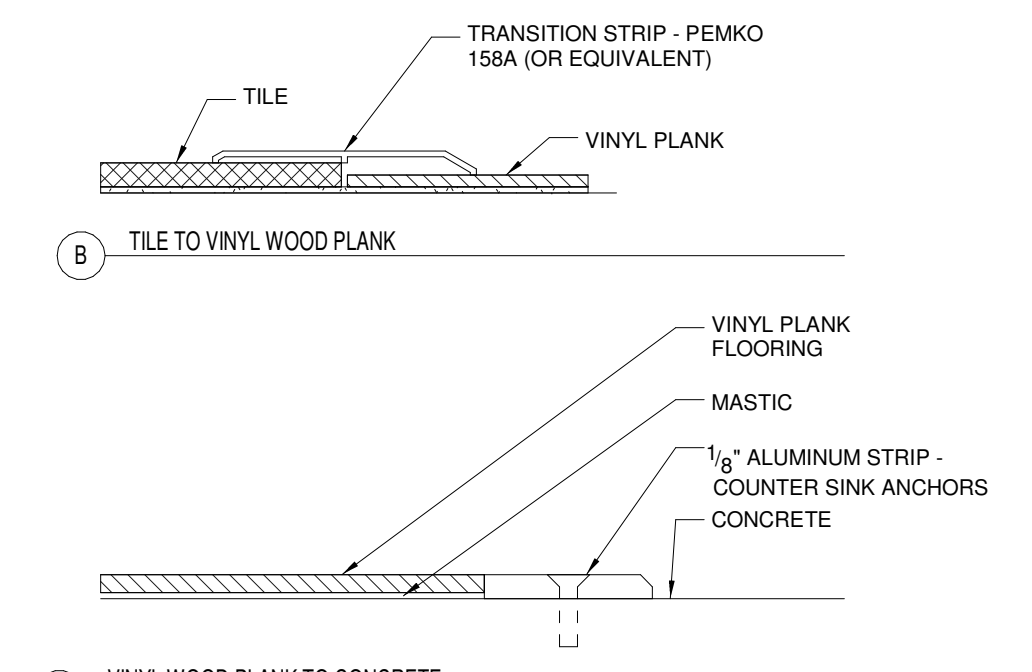
- A. ALL FLOOR FINISHES SHALL BE INSTALLED WITH TOP EDGES LEVEL WITH ADJACENT MATERIAL TOP EDGES. CONFIRM TILE THICKNESS AS THESE MAY VARY. CONFIRM THAT NO OVERALL FLOATING OF FLOOR IS REQUIRED.
- B. COORDINATE FLOORING TRANSITIONS AND BASE TILE INSTALLATION WITH MILLWORK SHOP DRAWINGS AND FIELD CONDITIONS.
- C. ALL THRESHOLDS SHALL HAVE A MAXIMUM HEIGHT OF 1/2" ABOVE EXISTING CONCRETE SLAB AND/OR INTERIOR FINISHES.
- D. TILE TRANSITION BETWEEN ROOMS TO BE CENTERED ON DOOR FRAME.
- E. SEE PLUMBING DRAWINGS FOR DIMENSIONS AND LOCATIONS OF FLOOR DRAINS AND FLOOR SINKS.
- F. ALL INTERIOR FINISHES TO HAVE A FLAME SPREAD RATING OF 25 OR LESS, WITH A MAXIMUM SMOKE GENERATION FACTOR OF 450.
- G. TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO MINIMIZE CUT TILES IN THE HORIZONTAL DIRECTION AND ELIMINATE CUT TILES IN THE VERTICAL DIRECTION ON ANY WALLS. CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTORS COST.

INTERIOR FINISH LEGEND

MARK	DESCRIPTION	MANUFACTURER & SPEC.	REMARKS
BASE			
B-1	RUBBER COVE BASE	ARMSTRONG #018 "DESERT" OR JOHNSONITE #080 "FAWN"	INSTALL ON SHEETROCK WALLS IN STAGING, SALES, OFFICE, AND CORRIDOR AREAS
B-2	CERAMIC COVE BASE	DALTILE SERIES: PORTFOLIO SIZE: 6x12 COVE BASE COLOR: NOCE #PF11	GROUT: MAPEI #39 IVORY
FLOORING			
F-1	VINYL WOOD PLANK	MOHAWK FLOORING SERIES: LUXURY VINYL STYLE: (TBD)	PROVIDED BY SHERWIN-WILLIAMS
F-2	CERAMIC TILE	DALTILE SERIES: PORTFOLIO SIZE: 12x24 COLOR: NOCE #PF11	GROUT: MAPEI #39 IVORY
F-3	DENSIFIED CONCRETE	H&C ENDURA POLISH CONCRETE SEALER	POLISH TO 800 GRIT BEFORE SEALING JOINT FILLER: SHER-CRETE POLYUREA
PAINT			
P-1	PAINT - ACCESSIBLE BEIGE	SHERWIN-WILLIAMS SERIES: EMERALD K37 COLOR: SW 7036 FINISH: FLAT	(2) COATS IN SALES AREA, OFFICE, CORRIDOR, AND STAGING - (2) COATS ON WOOD DOORS & TRIM, HOLLOW METAL DOOR FRAMES U.N.O.
P-2	PAINT - CITYSCAPE	SHERWIN-WILLIAMS SERIES: EMERALD K37 COLOR: SW 7067 FINISH: FLAT	(2) COATS ON SALES AREA ACCENT WALL (SEE A1#K30)
P-3	PAINT - AESTHETIC WHITE	SHERWIN-WILLIAMS COLOR: SW 7035	(2) COATS ON WOOD CAP, CROWN MOLDING, CORRIDOR CEILING - USE DRYFALL PAINT ON ROOF STRUCTURE, DECK & DUCTING
P-4	PAINT - DRY ERASE	SHERWIN-WILLIAMS DRY ERASE CLEAR GLOSS COATING KIT KB6SC2000 FINISH: CLEAR	USE ON OFFICE WALL - SEE PLAN
P-5	PAINT - ANTIMICROBIAL	SHERWIN-WILLIAMS SERIES: PAINT SHIELD COLOR: SW 7036 FINISH: EGGSHELL	USE IN RESTROOMS AND HALLWAY
P-6	PAINT - SNAPDRY	SHERWIN-WILLIAMS SERIES: SNAPDRY COLOR: SW 7035	USE ON HORIZONTAL SURFACE OF TINTING WINDOW OPENING
MISCELLANEOUS			
M-1	LATICRETE	HYDRO BAN	INSTALL AT ALL WET WALLS & DEMISING WALL(S) - SEE DETAIL
M-2	WINDOW GRAPHIC	PRINTED VINYL SHEET	SHERWIN-WILLIAMS PROVIDE/INSTALL - EXTERIOR OF GLASS AT STAGING AREA
M-3	PLASTIC LAMINATE	PIONITE SERIES: HARD ROCK COLOR: MAPLE G48 WM781 H	USE FOR ALL EXPOSED SURFACES OF COUNTER AND SHELVING IN OFFICE
WALL COVERING			
WC-1	CERAMIC TILE	DALTILE SERIES: PORTFOLIO SIZE: 6x24 & 3x12 BULLNOSE COLOR: NOCE #PF11	5'-3" HIGH WAINSCOT (FULL HEIGHT @ WET WALL) - SEE ELEVATIONS - GROUT: MAPEI #39 IVORY
WC-2	FRP WALL PANEL	MARLITE MODEL: P-100 FINISH: PEBBLED COLOR: WHITE	INSTALL TO 4'-0" A.F.F.
NOTES:			
A.	CONFIRM PAINT FINISH AND COATING/PRIMING REQUIREMENTS WITH PAINT SPECIFICATIONS ON SHEET A121		



B5 THRESHOLD AT EXTERIOR DOOR
3" = 1'-0"



A5 Flooring Transition Details
3" = 1'-0"

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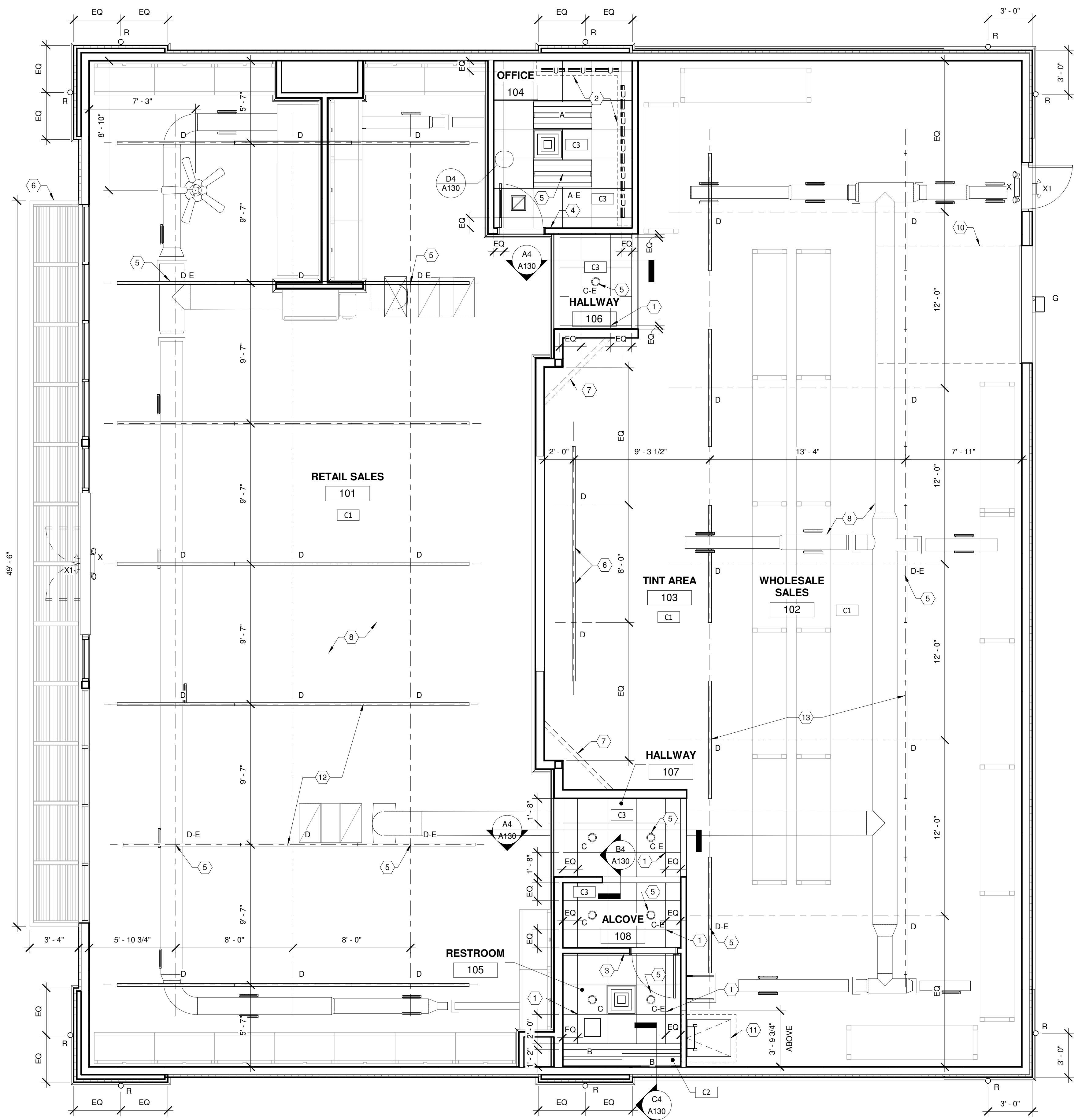
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SHEET TITLE:

Finish Plan

SHEET NUMBER:

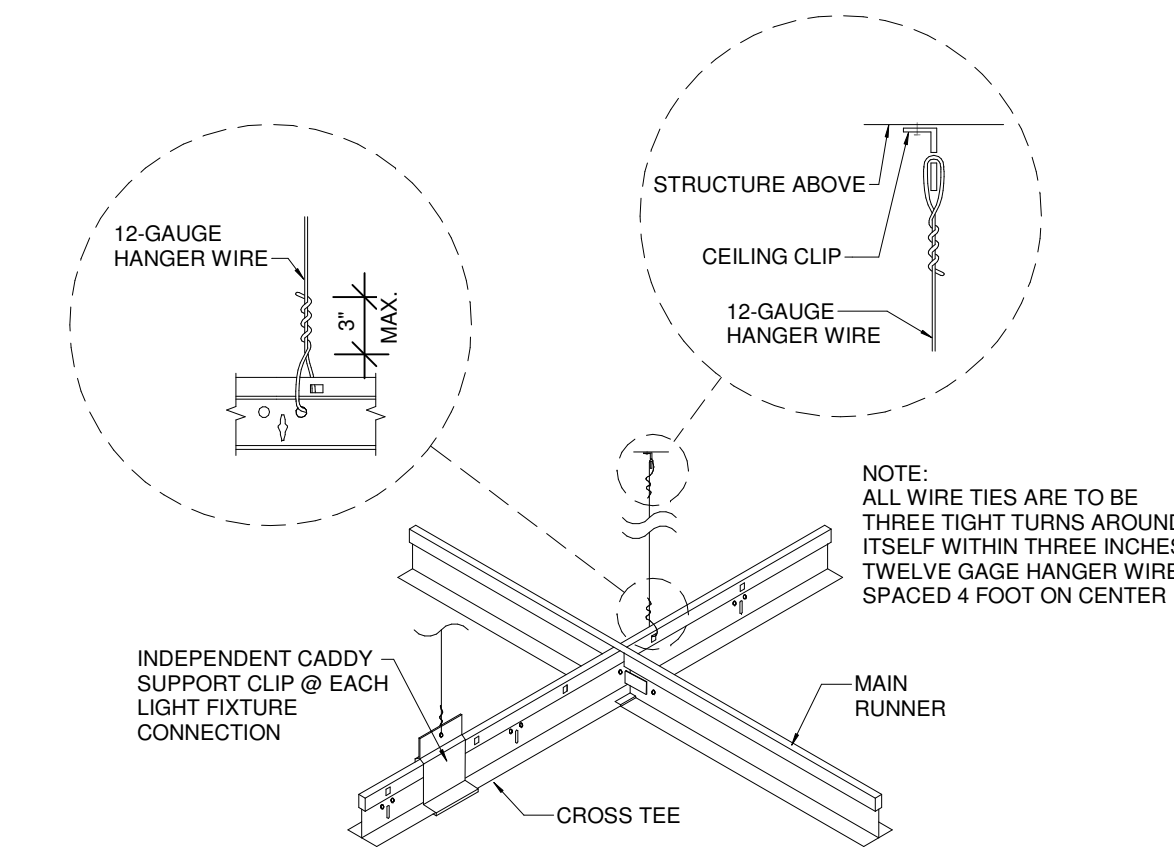
A120



Lighting Fixture Schedule

Type Mark	Count	Description	Manufacturer	Model	Lamp	Comments
A	1	2x4' LED Troffer	Cree	ZR24-50L40K-10V	LED	To be sourced from WESCO
A-E	1	2x4' LED Troffer	Cree	ZR24-50L40K-10V	LED	To be sourced from WESCO - Connect to non-switched emergency circuit
B	2	48" LED Strip	Cree	LS8-80L-40K-10V	LED	To be sourced from WESCO
C	3	6" Recessed Downlight	Prescolite	LF6LED	LED	
C-E	4	6" Recessed Downlight (emergency)	Prescolite	LF6LED	LED	Connect to non-switched emergency circuit
D	27	96" LED Strip	Cree	LS8-80L-40K-10V	LED	To be sourced from WESCO
D-E	6	96" LED Strip (emergency)	Cree	LS8-80L-40K-10V	LED	To be sourced from WESCO - Connect to non-switched emergency circuit
F	1	Ceiling Fan	Casablanca	Capistrano 54029 (Blades: 99077 54")		Mount @ 8'-0" A.F.F.
G	1	Exterior Security Light	Hubbell	LNC3	LED	Connect to non-switched emergency circuit
R	10	Exterior Up/Down Sconce	Eaton	9004-W2-RW-LED408 0-S-S-CS-L1-UNW-WIS	LED	Mount @ 9'-0" A.F.F. U.N.O.
U	8	Under-shelf Lighting	Tech Lighting	700UCF1955B-LED	LED	Use splice box & jumper connectors
X	2	Exit signage w/ Emergency Lighting	Juno	NXPCL3GWH-HO	LED	Connect to non-switched emergency circuit
X1	2	120V EMERGENCY LIGHT FIXTURE	LSI	EPM-SD2-WHT	A-19	Remote from Exit sign/Emergency combo fixture

- ### RCP CODED NOTES
- CEILING GRID ORIGIN POINT
 - INSTALL LIGHTS ON UNDERSIDE OF OFFICE SHELF - SWITCH WITH OTHER OFFICE LIGHTS - SEE DETAIL B3/A111
 - INSTALL AUTOMATIC, MOTION SENSING SWITCHES (15-MINUTE GRACE PERIOD) TO CONTROL ALL LIGHTING AND EXHAUST FANS (IF APPLICABLE)
 - WIRE ALL LIGHT FIXTURES IN THE SALES, CORRIDOR AND STAGING AREAS THROUGH 8-BUTTON ELECTRONIC SWITCH WITH LED INDICATORS INSIDE THE OFFICE (LEGRAND LMSW-108 OR EQUAL)
 - CONNECT "D-E" FIXTURES TO SEPARATE NON-SWITCHED CIRCUIT
 - MOUNT LIGHT FIXTURES IN TINTING AREA 9'-6" A.F.F.
 - HORIZONTAL WALL BRACE AT 10'-0" A.F.F. 20GA METAL STUD
 - CONFIRM HVAC DUCTWORK AND DIFFUSER/RETURN LOCATIONS WITH MECHANICAL SHEETS - HOLD DUCTWORK CLOSE TO STRUCTURE
 - NEW METAL AWNINGS - MAPES LUMISHADE (OR EQUIVALENT) - 8" FASCIA - SEE SHEET A114
 - HOLD OVERHEAD DOOR TRACK BELOW LIGHT FIXTURE - VERIFY HEIGHT IN FIELD
 - ROOF ACCESS HATCH - SEE DETAIL C4/A111 - COORDINATE PLACEMENT WITH STRUCTURAL
 - LIGHT FIXTURES AT RETAIL SALES TO BE MOUNTED AT 12' AFF.
 - LIGHT FIXTURES AT WHOLESALE AREA TO BE MOUNTED AT 13'-6" AFF.

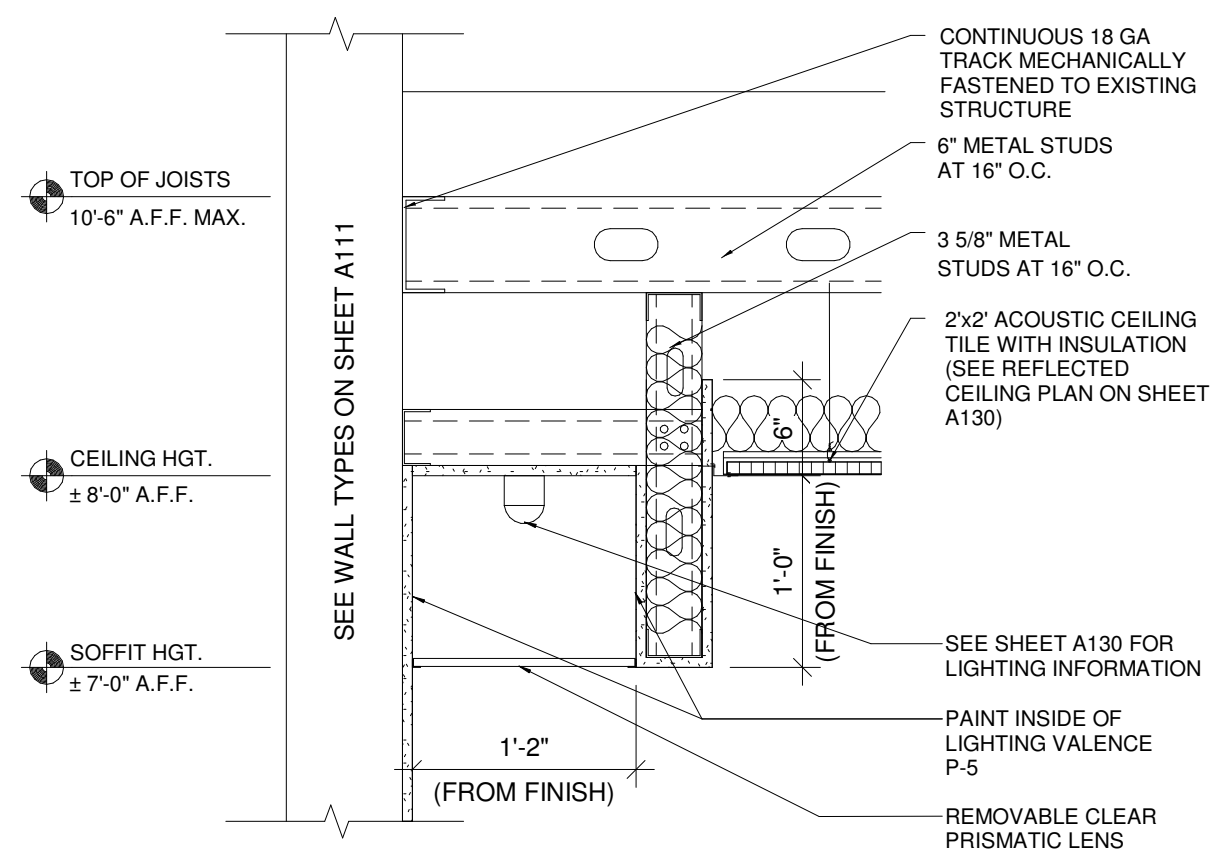


- ### GENERAL NOTES:
- VERIFY ALL PLACEMENTS OF LIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
 - SEE ELECTRICAL PLANS FOR ADDITIONAL LIGHTING INFORMATION
 - ALL CEILING MATERIAL SHALL NOT EXCEED FLAME CLASS II - FLAME SPREAD INDEX 25-75.
 - G.C. SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES INVOLVED IN THE CEILING WORK TO ENSURE THAT PROPER CLEARANCES FOR DUCTS, LIGHTS, PIPING, ETC. ARE MET AND THAT THE CEILING HEIGHTS NOTED ON THE DRAWINGS ARE MAINTAINED
 - G.C. TO VERIFY REQUIREMENTS AND QUANTITIES OF FIRE PROTECTION DEVICES INCLUDING SMOKE DETECTORS, DUCT SMOKE DETECTORS, FIRE ALARMS, RELATED SPEAKERS, STROBES, ETC. LIFE SAFETY INSTALLATIONS TO MEET REQUIREMENTS OF ALL APPLICABLE CODES AND ORDINANCES
 - G.C. TO CAULK JOINTS BETWEEN CEILING GRID AND ADJACENT SURFACES.
 - WESCO CONTACT: MARK SABATINO
EMAIL: MSABATINO@WESCO.COM
PHONE: (440) 554-4669

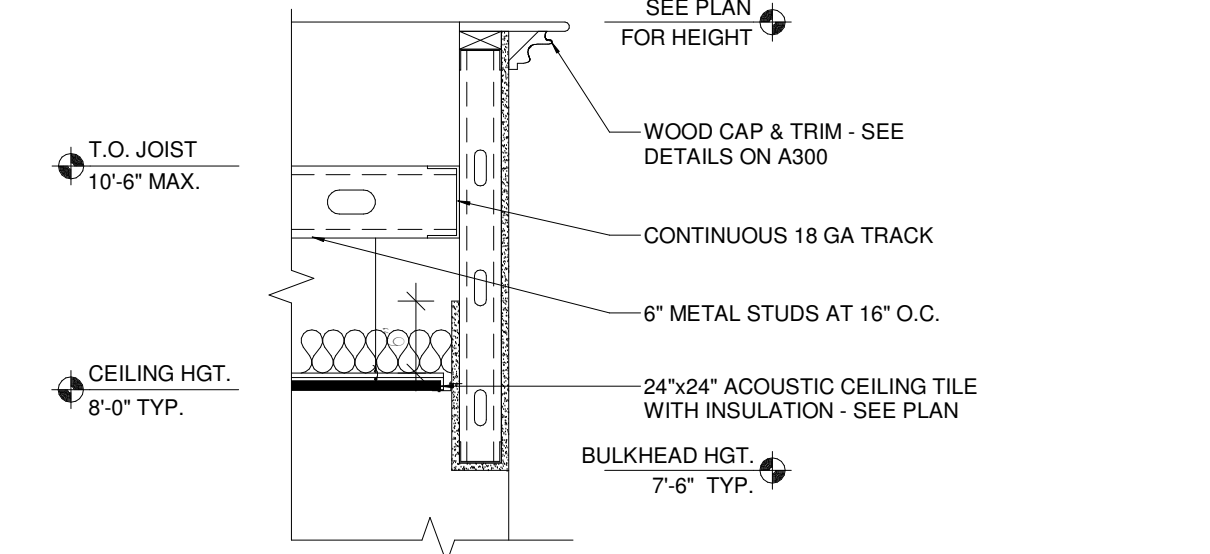
CEILING FINISH SCHEDULE

DESCRIPTION:	NOTES:
C1 CEILING: EXPOSED TO STRUCTURE: FINISH: PAINT P-3	HVAC DUCTWORK TO BE PAINTED P-3
C2 CEILING: INSTALL 5/8" GYP. BD. CEILING FINISH: PAINT P-3 U.N.O.	
C3 MFG: USG FINISH: 24"x24" SANDRIFT #808 COLOR: WHITE HEIGHT: 8'-0" A.F.F. U.N.O.	GRID: USG DX GRID SYSTEM GC SUPPLY/INSTALL FACTORY PAINTED WHITE

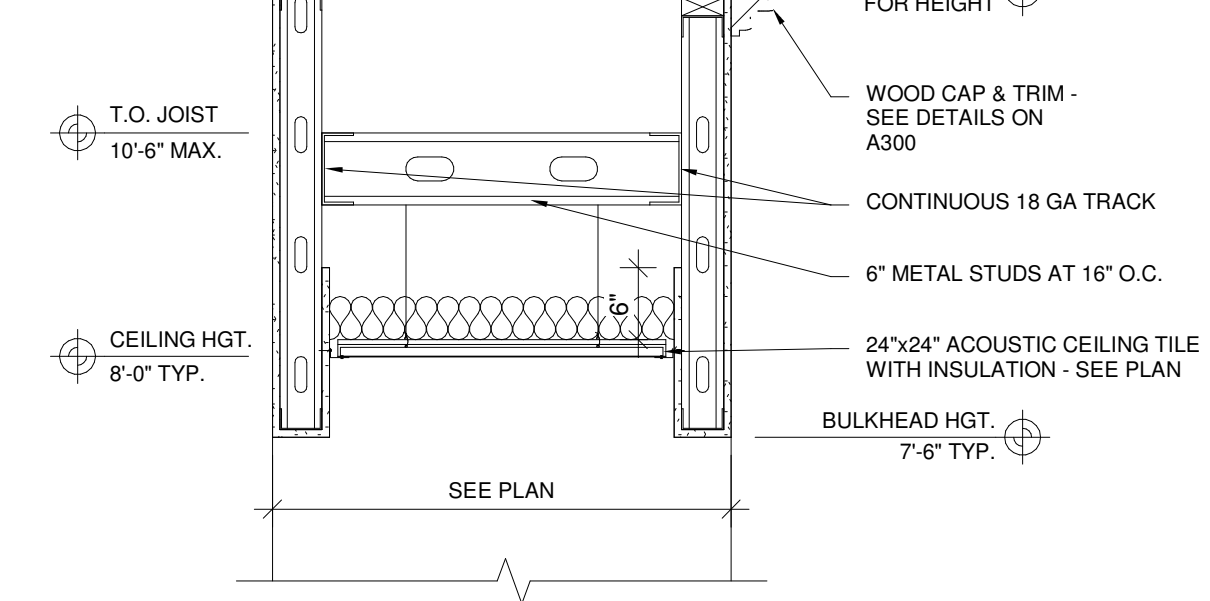
D4 Typical Suspended Ceiling
1/4" = 1'-0"



C4 Restroom Lighting Valence Section
1" = 1'-0"



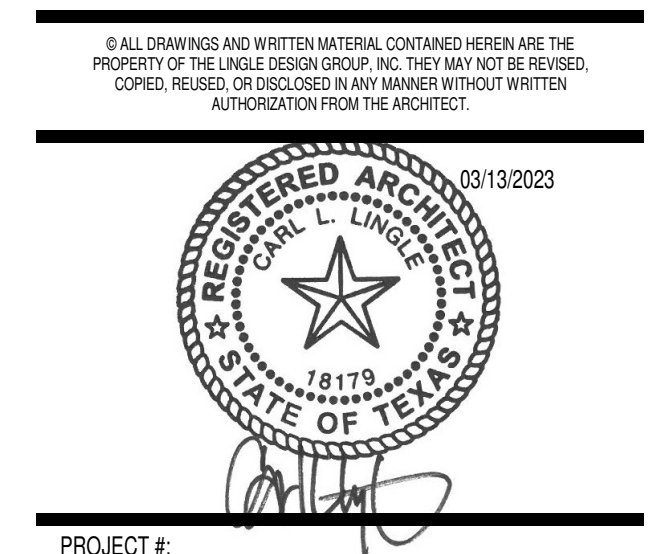
B4 Bulkhead Section
3/4" = 1'-0"



A4 Hallway Bulkhead Section
3/4" = 1'-0"

A1 Reflective Ceiling Plan
1/4" = 1'-0"

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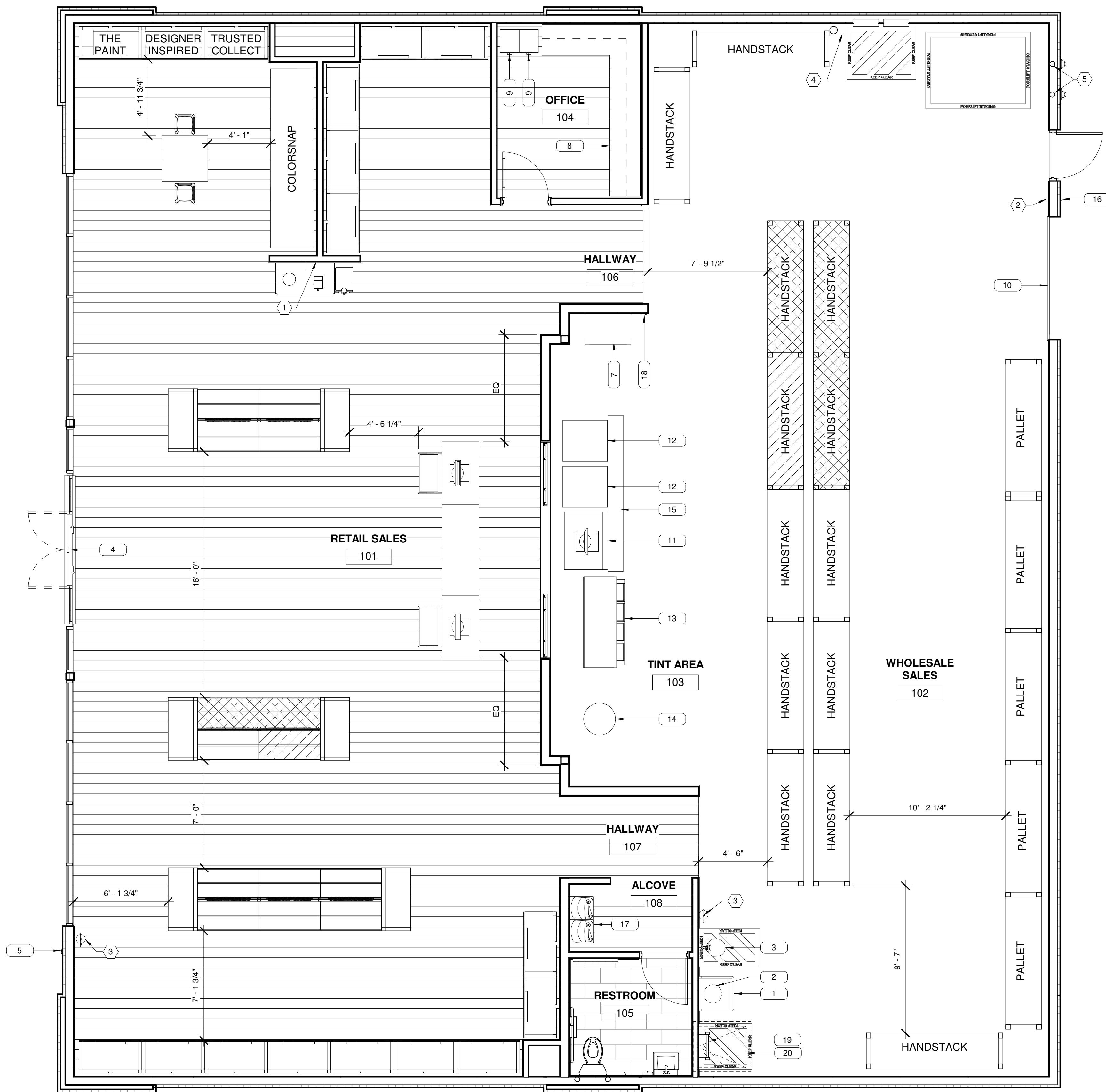
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Reflected Ceiling Plan

SHEET NUMBER:
A130



EQUIPMENT LIST

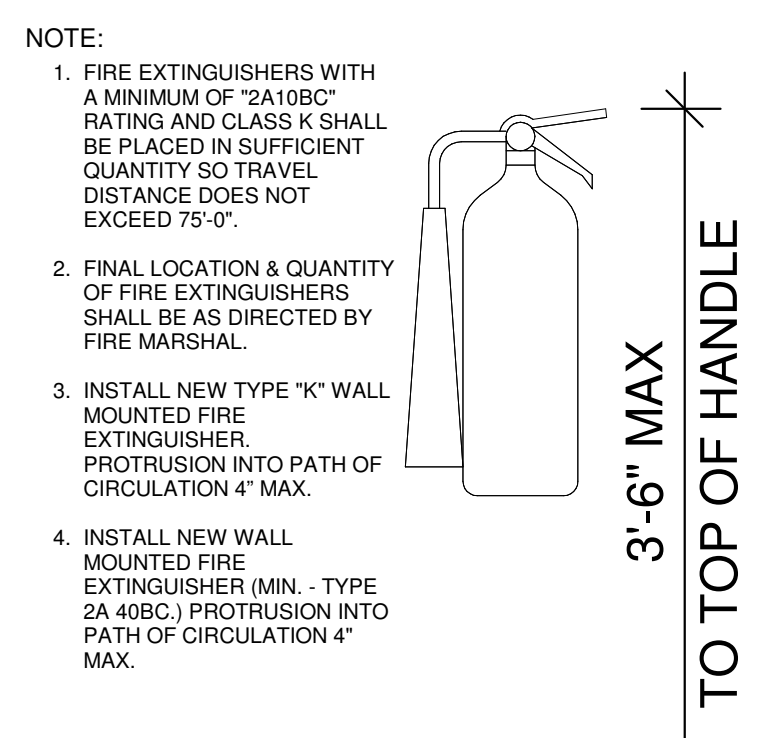
TA G	DESCRIPTION	MANUFACTURER	MODEL	PROVIDED BY	INSTALLED BY	REMARKS
1	UTILITY SINK	ELKAY	B1C24X24X	GC	GC	ELEVATED ON METAL LEGS
2	WATER HEATER	A. O. SMITH	DEL-20	GC	GC	MOUNT ON SHELF ABOVE UTILITY SINK - VERIFY SPEC W/ PLUMBING
3	EYEWASH STATION	BRADLEY	S19224DC	GC	GC	WALL MOUNTED - PLUMB TO HOT/COLD WATER (W/ MIXING VALVE) & SANITARY SEWER
4	SLIDING GLASS DOOR	TORMAX	TX9200	GC	GC	
5	EMERGENCY KEY CABINET	KNOX BOX	3200 RECESSED MOUNTED	GC	GC	MOUNT 4'-0" A.F.F. - COORDINATE FINAL PLACEMENT WITH FIRE PREVENTION BUREAU
6	COFFEE BAR W/ WATER COOLER			TENANT	TENANT	
7	DATA CABINET			GC	GC	INSTALL PHONE/COMPUTER BOARD AT DATA CABINET - SEE DETAIL A5/A300
8	ALUMINUM RACEWAY	LEGRAND	ALA4800 & ALA-G	TENANT	GC	ALTERNATES: HUBBLE HBLALU4800 & MONOSYSTEMS SWA4800
9	FILE CABINET			TENANT	TENANT	
10	Overhead Delivery Door	Overhead Door	470	GC	GC	8'-0" W X 10'-0" OPENING - LIGHT GRAY - WALL MOUNTED MOTORIZED OPERATOR: LIFTMASTER LJ8900W
11	ACCUTINTER	MILLER	ACCUTINTER 8012	TENANT	TENANT	VERIFY SPEC W/ SHERWIN-WILLIAMS
12	5 GALLON MIXER	RED DEVIL	05025U	TENANT	TENANT	VERIFY SPEC W/ SHERWIN-WILLIAMS
13	1 GALLON MIXER	RED DEVIL	1015-PB-SQ	TENANT	TENANT	
14	MANUAL TINTER	FLUID MANAGEMENT	HARBIL NSC80	TENANT	TENANT	VERIFY SPEC W/ SHERWIN-WILLIAMS
15	CONVEYOR ROLLER			TENANT	TENANT	VERIFY SPEC W/ SHERWIN-WILLIAMS
16	EXTERIOR BUZZER BUTTON	EDWARDS	1786-B	GC	GC	MOUNT 4'-0" A.F.F. - REFER ELECTRICAL
17	HIGHLOW DRINKING FOUNTAIN	ELKAY	EDFP217C	GC	GC	REFER PLUMBING
18	BUZZER RECEIVER	OPTEX	RCTD-20U	GC	GC	MOUNT 9'-0" A.F.F. - REFER ELECTRICAL
19	FIXED ROOF LADDER					
20	ROOF HATCH	BILCO	GS-50TB - 36x30	GC	GC	COORDINATE PLACEMENT WITH STRUCTURAL

HAZARDOUS MATERIALS STORAGE

FLAMMABLE CLASS	MAX. STORAGE HEIGHT	MAX. AMOUNT	ACTUAL AMOUNT
1A	4'-0"	30 GAL	0 GAL
1B	4'-0"		392 GAL
1C	4'-0"		60 GAL
II	6'-0"	1,600 GAL	150 GAL
IIIA	6'-0"		52 GAL
IIIB	6'-0"	13,200 GAL	330 GAL
AEROSOL LEVEL			321 LBS
1	8'-0"	2,500 LBS	203 LBS
2	8'-0"	2,500 LBS	21 LBS
3	8'-0"	1,000 LBS	21 LBS
TOTAL			654 GAL

NOTE: TENANT WILL BE RESPONSIBLE FOR ADDING PERMANENT SIGNS ON EACH STORAGE SHELF OR RACK STATING THE ABOVE STORAGE LIMITATIONS AND TRAINING STORE STAFF IN PROPER STORAGE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS. STORE OWNER WILL BE RESPONSIBLE FOR ADDING SIGNAGE TO SHELF AND RACK STORAGE WHERE FLAMMABLE AND COMBUSTIBLE LIQUIDS ARE STORED THAT "WARNING, NO COMBUSTIBLE PRODUCTS ARE TO BE STORED ABOVE ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS" PER 2018 IFC.

- ### CONSTRUCTION NOTES
- THE GC SHALL INSTALL NEW VINYL WOOD PLANK FLOORING AND COVE BASE IN THE SALES, OFFICE AND CORRIDOR AREAS. INSTALL CERAMIC TILE ON THE FLOOR AND AS A 5'-3" HIGH WASCOT ON ALL WALLS FACING INTO THE RESTROOMS. SEE SHEET A400 FOR MORE INFORMATION.
 - THE GC SHALL INSTALL SHEETROCK FURRING ON ALL EXTERIOR WALLS, INTERIOR COLUMNS AND MASONRY WALLS FACING INTO THE SALES AREA. THESE WALLS SHALL EXTEND FROM THE SLAB TO THE UNDERSIDE OF THE ROOF DECK. INCLUDE INSULATION AS REQUIRED TO ACHIEVE THE EXTERIOR WALL INSULATION VALUE INDICATED IN THE DESIGN GUIDELINES. SEE THE DESIGN GUIDELINES FOR MORE INFORMATION.
 - THE GC SHALL INSTALL ALL WALLS FACING INTO THE SALES AREA TO BE FLAT, WITH NO PROTRUSIONS.
 - THE GC SHALL INSTALL SOUND INSULATION IN THE WALLS SURROUNDING AND SEPARATING THE RESTROOMS. THIS INSULATION SHALL EXTEND FROM THE SLAB TO THE ASSOCIATED CEILING HEIGHT.
 - THE GC SHALL NEW STOREFRONT WINDOWS AND DOORS WHERE SHOWN ON THIS PLAN. THESE SHALL BE DOUBLE GLAZED, INSULATED "E" GLASS. INSTALL THE MULLIONS TO PROVIDE A MINIMUM CLEAR GLASS SPACE OF 48 INCHES IN WIDTH AND 60 INCHES IN HEIGHT. SEE THE DESIGN GUIDELINES FOR MORE INFORMATION.
 - THE GC SHALL INSTALL RESTROOM ACCESSORIES. SEE THE DESIGN GUIDELINES FOR A LISTING OF THOSE ACCESSORIES AND PRODUCT SELECTIONS.
 - SEE THE REFLECTED CEILING PLAN FOR CEILING LAYOUT AND OTHER RELATED INFORMATION.
 - THE GC SHALL INSTALL THE SPECIFIED, 3-SECTIONED, WOOD FRAMED, WINDOW FEATURE IN THE WALL BETWEEN THE SALES AND TINTROOM AREAS. PRIME AND PAINT THE FRAMING. INSTALL CLEAR GLASS IN THE TWO END SECTIONS, LEAVING THE CENTER AS A CASED OPENING. SEE ELEVATION A1/A300 FOR MORE INFORMATION. SEE THE DESIGN GUIDELINES FOR PRODUCT AND COLOR SELECTIONS.
 - THE GC SHALL INSTALL A PLASTIC LAMINATE WORK COUNTER AND UPPER BOOK SHELF IN THE OFFICE. SHERWIN-WILLIAMS TO PROVIDE WIRE RACEWAY FOR DATA, VOICE, AND POWER ALONG DESK. RACEWAY SHALL BE WIRED USING MINIMUM OF TWO (2) CIRCUITS. SPACE EACH OPENING 2'-0" ON CENTER. ALL RECEPTACLES SHALL BE GRAY. G.C. TO INSTALL RACEWAY SURGE/DECOATOR COVERS AT VOICE/DATA LOCATIONS. VOICE/DATA DEVICES AND WIRING SHALL BE INSTALLED BY OTHERS.
 - THE GC SHALL INSTALL A PRIMED AND PAINTED WOOD CAP AND CROWN MOLDING ON TOP OF THE "T" WALL IN THE COLOR STUDIO AREA AND ON THE PERIMETER WALLS OF THE OFFICE, RESTROOMS AND TINT/SALES WALL. SEE SHEET A300 FOR MORE INFORMATION.
 - THE GC SHALL INSTALL WHITE FRP ON THE WALL BEHIND THE UTILITY SINK AND EYE WASH STATION. THIS FEATURE SHALL EXTEND FROM THE SLAB TO 4 FEET A.F.F. AND TO 2 FEET BEYOND EACH SIDE OF THE EQUIPMENT.
 - THE GC SHALL INSTALL A 1/2 INCH PLYWOOD BACK BOARD BENEATH THE SHEETROCK ON THE END OF THE "T" WALL IN THE SALES AREA TO SUPPORT A FLAT PANEL TELEVISION. SEE VIEW A3/A300 FOR INSTALLATION INSTRUCTIONS.
 - THE GC SHALL PAINT ALL INTERIOR AND EXTERIOR WALLS, DOORS, ROOF DECK, EXPOSED CONDUITS. SHERWIN-WILLIAMS WILL SUPPLY ALL LIQUID PAINT PRODUCTS FOR APPLICATION BY THE LANDLORD/CONTRACTOR. SEE THE PAINTING SCHEMATIC FOR THE LOCATION OF ACCENT COLORS. SEE THE PAINTING SCHEDULE CONTAINED IN THE DESIGN GUIDELINES FOR PRODUCT AND COLOR SELECTIONS.



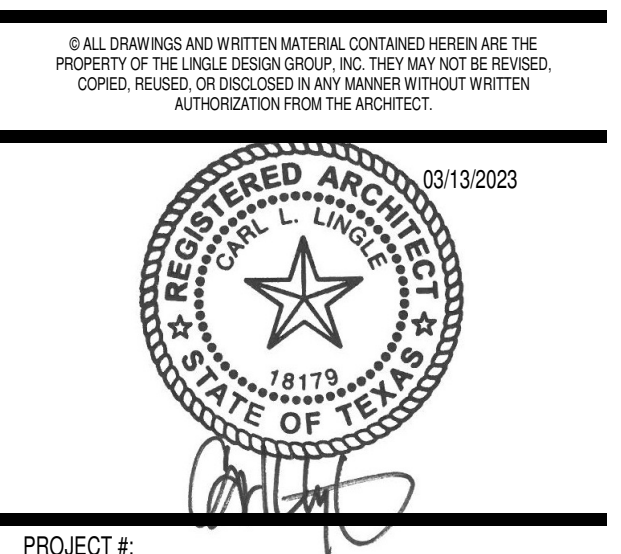
FIXTURE PLAN CODED NOTES

1	COLD WATER LINE FOR COFFEE MAKER - SEE PLUMBING SHEETS
2	TIME CLOCK & LUTRON VIVE LIGHTING CONTROL SYSTEM - VERIFY W/ ELECTRICAL
3	FIRE EXTINGUISHER - SEE DETAIL A4/A140
4	AS-BUILT DRAWING TUBE - SEE DETAIL C5/A111
5	4" PVC ROOF DRAIN PIPE - SEE SHEET A150

A1 Fixture Plan
1/4" = 1'-0"

A4 TYPICAL FIRE EXTINGUISHER DETAIL
1" = 1'-0"

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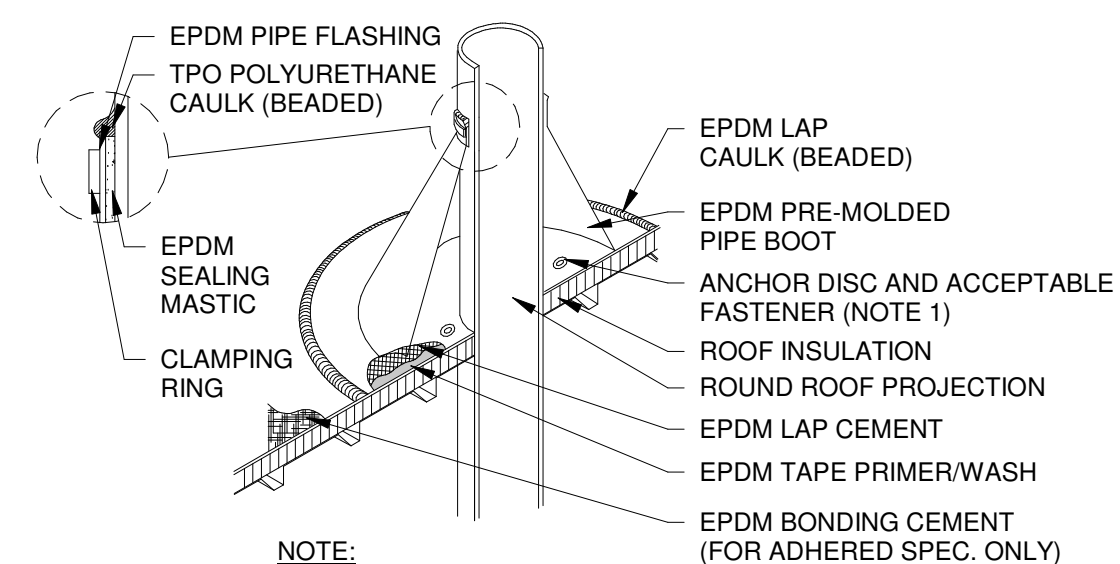
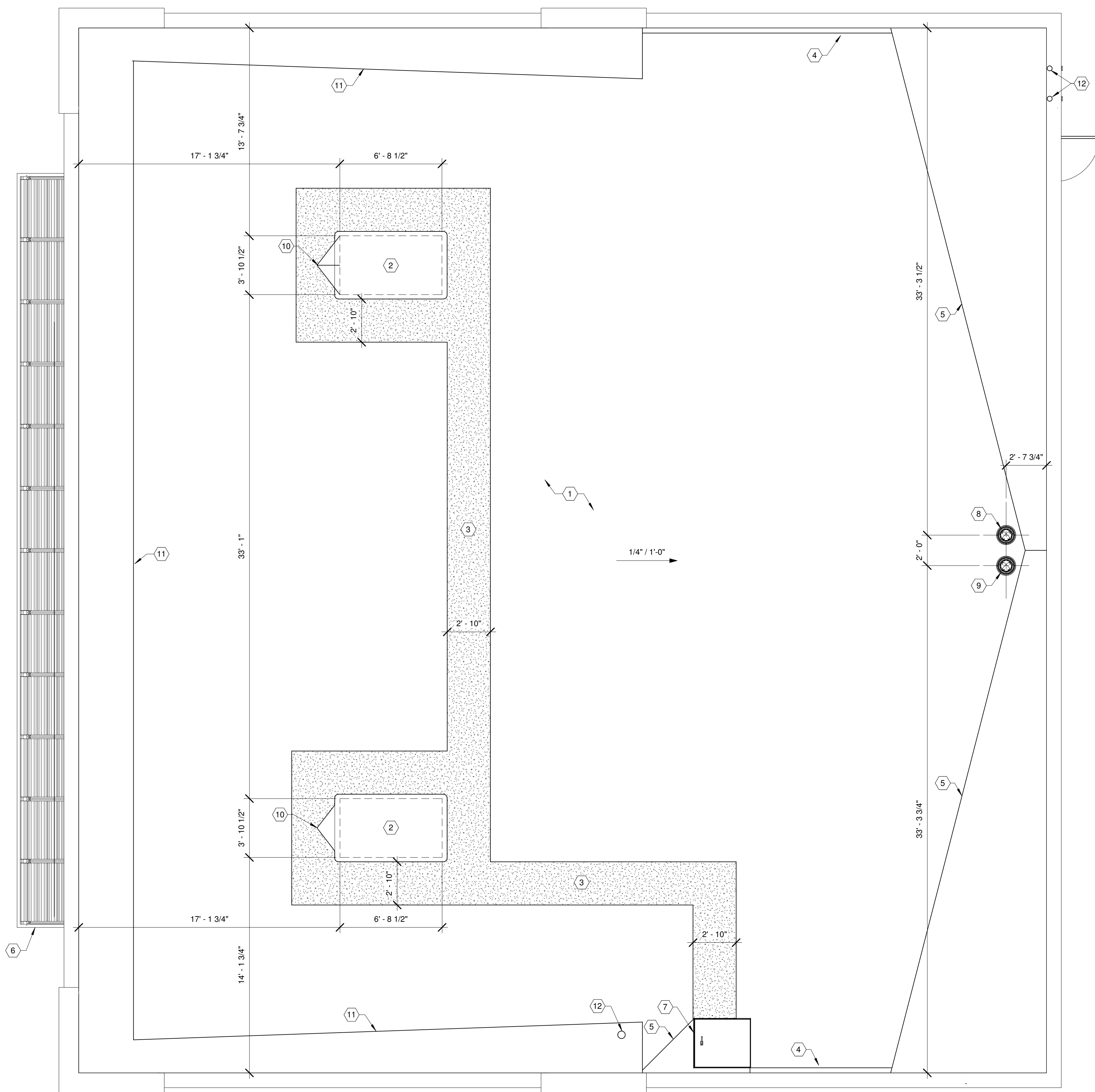
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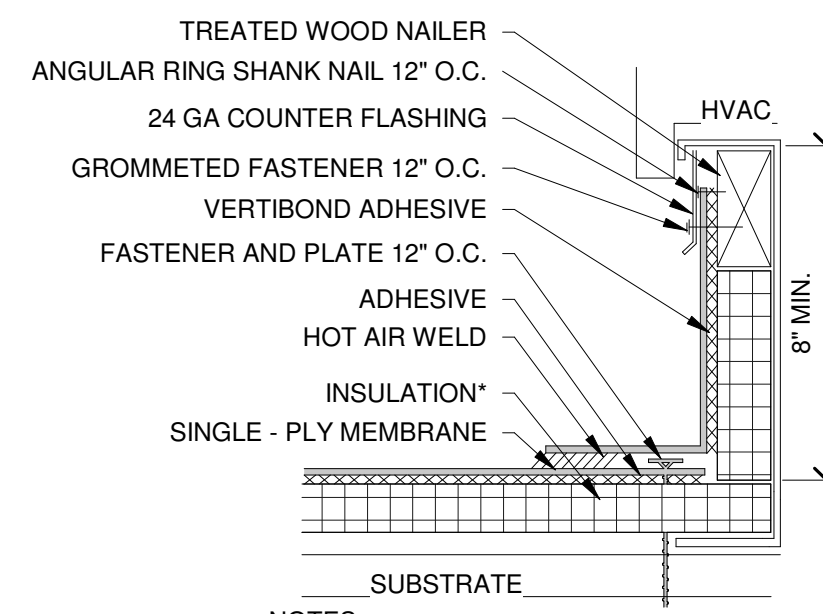
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 Fixture Plan &
 Schedule

SHEET NUMBER:
A140



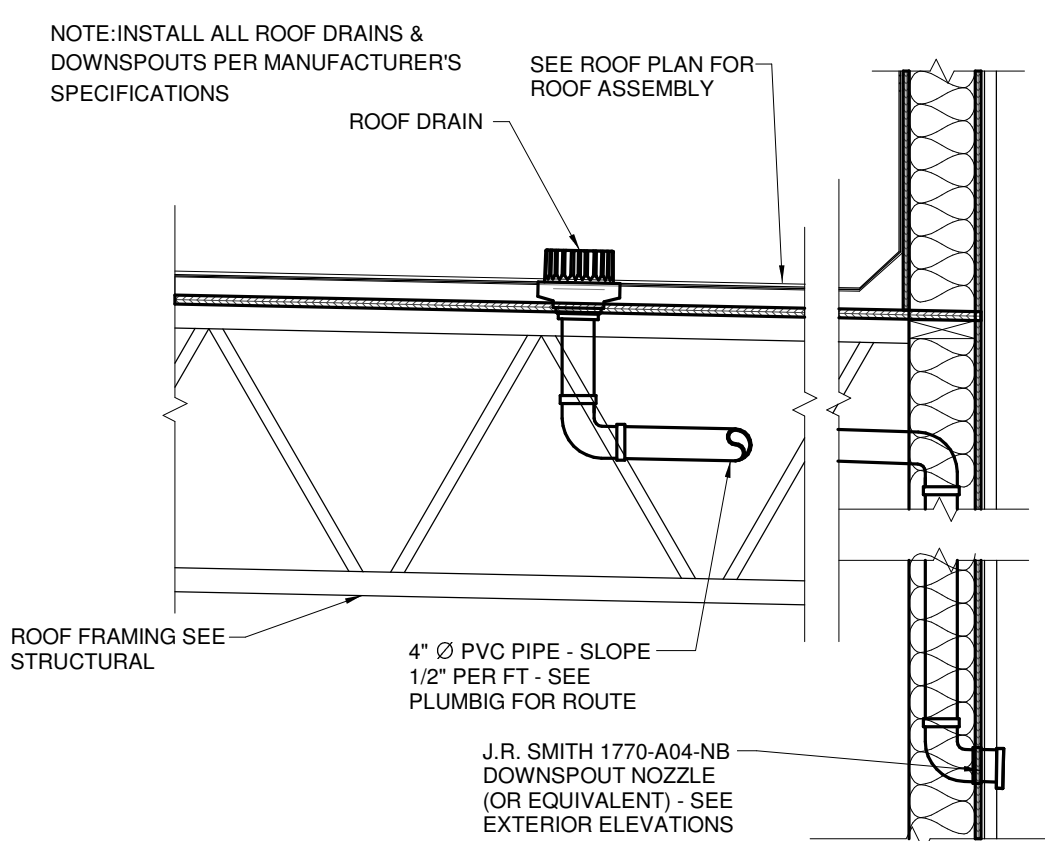
- NOTE:**
1. WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
 2. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
 3. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT.
 4. BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMER/WASH. EPDM TAPE PRIMER/WASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING EPDM LAP CEMENT.

D4 TYPICAL BOOT DETAIL
1/4" = 1'-0"

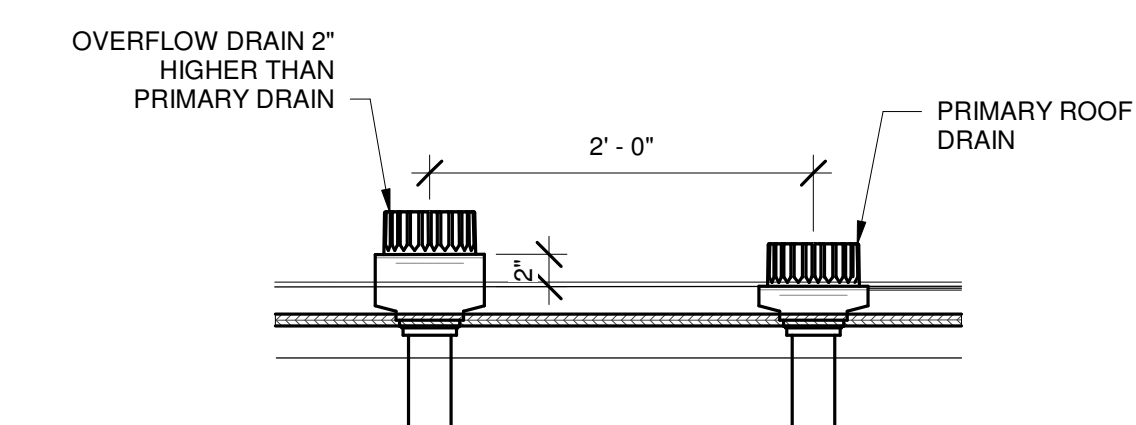


- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.
 3. USE PREFABRICATED OUTSIDE CORNERS.
 4. INSULATION MUST BE SECURELY FASTENED.
 5. *GLASS - FACED POLYISO INSULATION IS OPTIONAL AND MAY NOT BE REQUIRED ON EVERY PROJECT. IF INSULATION IS NOT REQUIRED, THE MEMBRANE MUST BE ADHERED TO AN APPROVED SURFACE.

C4 TYPICAL CURB FLASHING
1/4" = 1'-0"



B4 TYPICAL ROOF DRAINAGE
3/4" = 1'-0"



A4 Overflow Roof Drain
1" = 1'-0"

ROOF PLAN CODED NOTES

- | | |
|----|--|
| 1 | JM TPO - 60 MIL CRRC WHITE ROOF MEMBRANE OVER R-30 RIGID INSULATION - INSTALL PER MANUFACTURER'S SPEC - ROOF DECK PER STRUCTURAL - 2% SLOPE MIN. |
| 2 | MECHANICAL ROOFTOP UNIT - SEE MECHANICAL FOR INFORMATION, REINFORCE PER STRUCTURAL |
| 3 | REINFORCED WALKWAY FOR EQUIPMENT ACCESS |
| 4 | 4" CANT STRIP, TYP. |
| 5 | SLOPE CRICKET TO ROOF DRAIN |
| 6 | AWNING BELOW - SEE DETAIL D1/A113 & EXTERIOR ELEVATIONS |
| 7 | ROOF ACCESS HATCH - SEE DETAIL C4/A111 - COORDINATE PLACEMENT WITH STRUCTURAL |
| 8 | ROOF DRAIN - J.R. SMITH 1010-A04 (OR EQUIVALENT) - SEE DETAIL A4/A150 - COORDINATE PLACEMENT W/ CIVIL |
| 9 | ROOF OVERFLOW DRAIN - J.R. SMITH 1070-A04 (OR EQUIVALENT) - SEE DETAIL A4/A150 - COORDINATE PLACEMENT W/ CIVIL |
| 10 | TAPERED INSULATION CRICKET AT EQUIPMENT CURB |
| 11 | ROOF KICKERS PER STRUCTURAL |
| 12 | 4" PVC ROOF DRAIN PIPE BEYOND - REF PLUMBING |
| 12 | EXHAUST FAN VENT PIPE - REF MECHANICAL |

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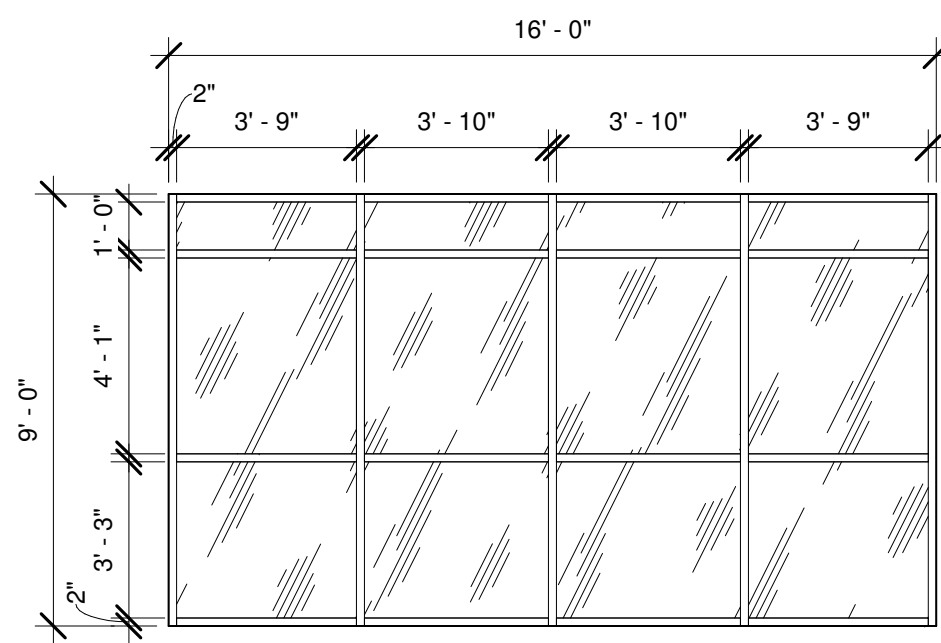
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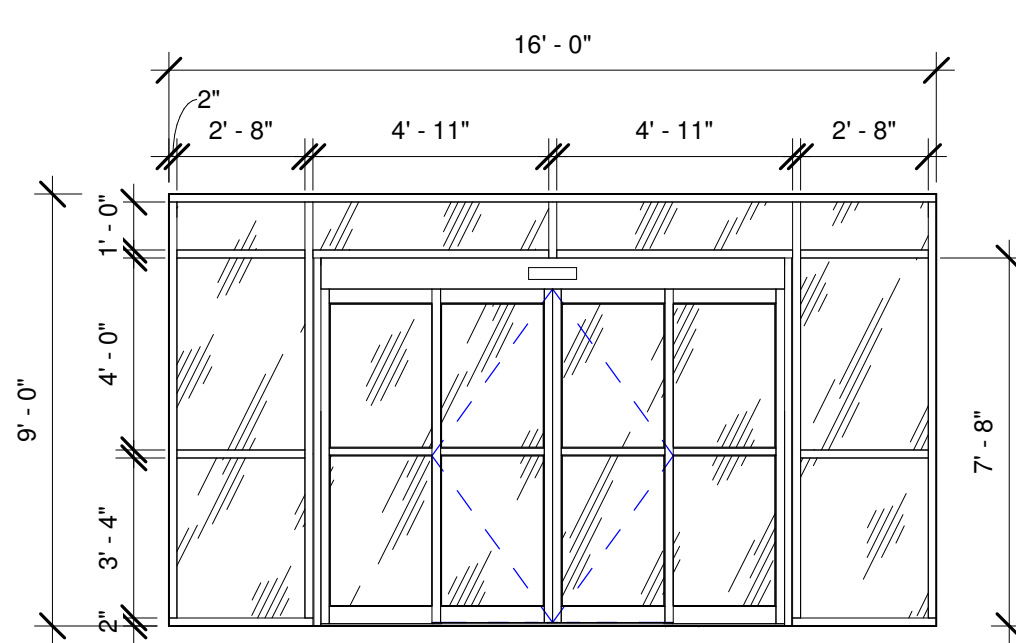
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SHEET TITLE:
Roof Plan

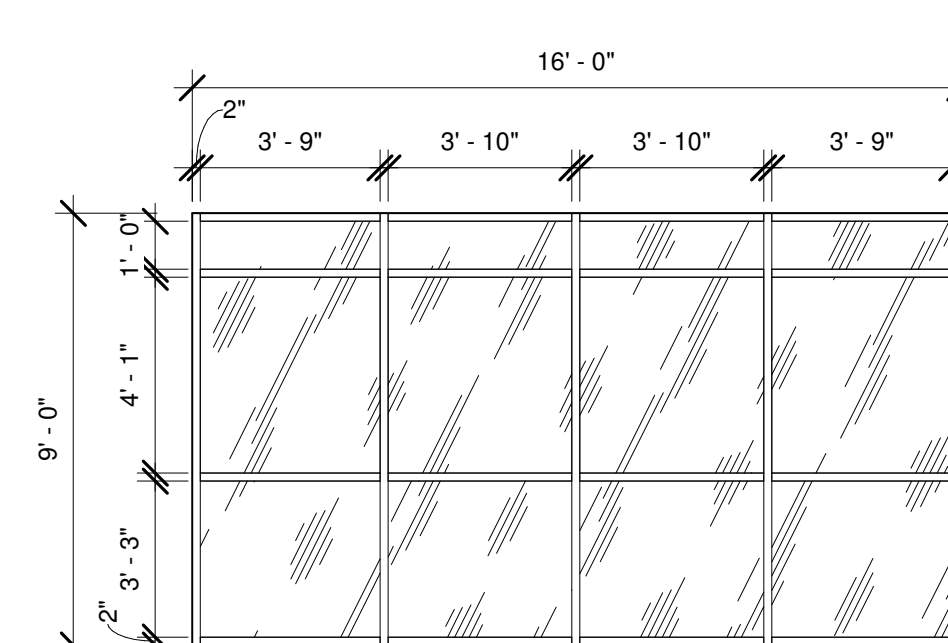
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A150



W1 WINDOW W1
1/4" = 1'-0"



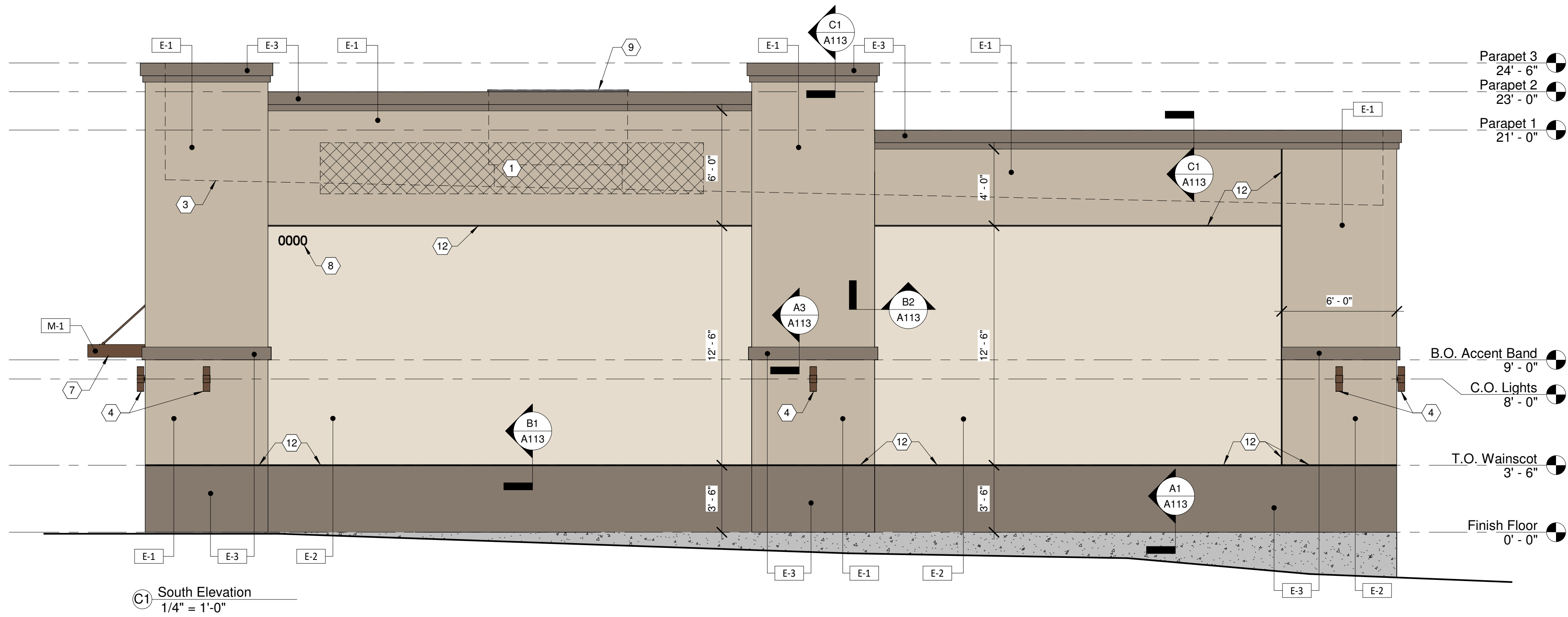
W2 WINDOW W2
1/4" = 1'-0"



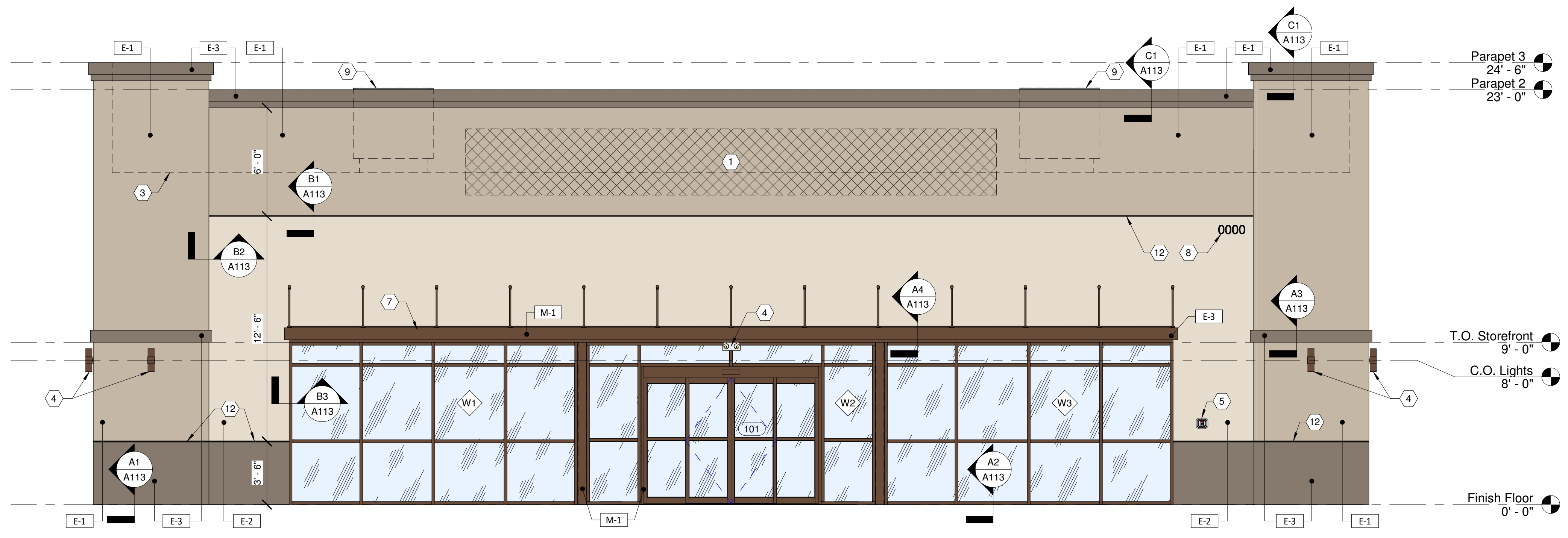
W3 WINDOW W3
1/4" = 1'-0"

EXTERIOR FINISH SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER & SPEC	SAMPLE
E-1	EIFS - FIELD	SHERWIN-WILLIAMS COLOR: SW 7506 LOGGIA (SCORE LINES PER ELEVATIONS)	
P-1	PAINT		
E-2	EIFS - BAY	SHERWIN-WILLIAMS COLOR: SW 6105 DIVINE WHITE (PARAPET FLASHING TO MATCH)	
P-2	PAINT		
E-3	EIFS - FIELD	SHERWIN-WILLIAMS COLOR: SW 7025 BACKDROP (SCORE LINES PER ELEVATIONS)	
P-3	PAINT		
M-1	ANODIZED ALUMINUM	COLOR: DARK BRONZE (STOREFRONT)	

EXTERIOR ELEVATION CODED NOTES	
1	SIGNAGE UNDER SEPARATE PERMIT
2	UTILITY METER BANK - PAINT TO MATCH ADJACENT FINISH - COORDINATE WITH CIVIL
3	ROOF LINE BEHIND PARAPET
4	EXTERIOR LIGHTING - SEE SCHEDULE ON SHEET A130
5	KNOX BOX - MODEL 3200 RECESSED - COORDINATE PLACEMENT WITH FIRE PREVENTION BUREAU
6	BUZZER BUTTON
7	NEW METAL AWNING - MAPES LUMISHADE (OR EQUIVALENT) - 8" FASCIA
8	BUILDING ADDRESS PER 2018 IFC 505.1 - 4" HIGH MIN., 1/2" MIN. STROKE WIDTH
9	ROOF TOP UNIT BEYOND
10	ROOF DRAIN DOWNSPOUT NOZZLE PER SHEET A150 - NICKEL BRONZE FINISH - COORDINATE W/ CIVIL
11	DELIVERY RAMP - REF CIVIL
12	EIFS REVEAL - REF B1/A113

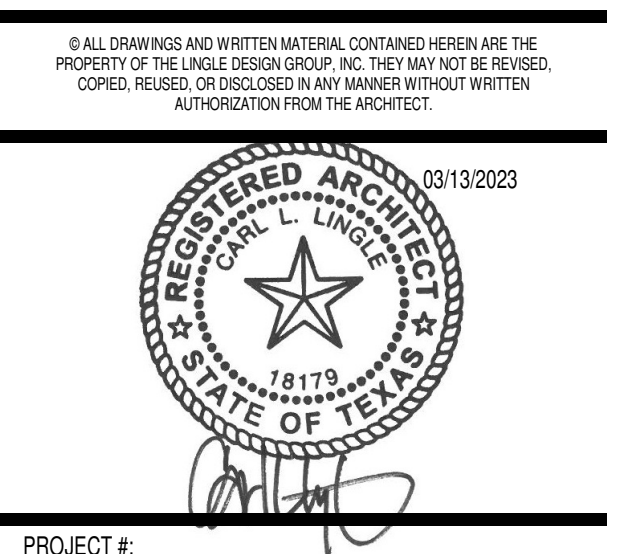


C1) South Elevation
1/4" = 1'-0"



A1) West Elevation
1/4" = 1'-0"

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DRAWN BY: BA CHECKED BY: MP

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SHERWIN WILLIAMS

STORE #:
XXXX
ADDRESS:
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

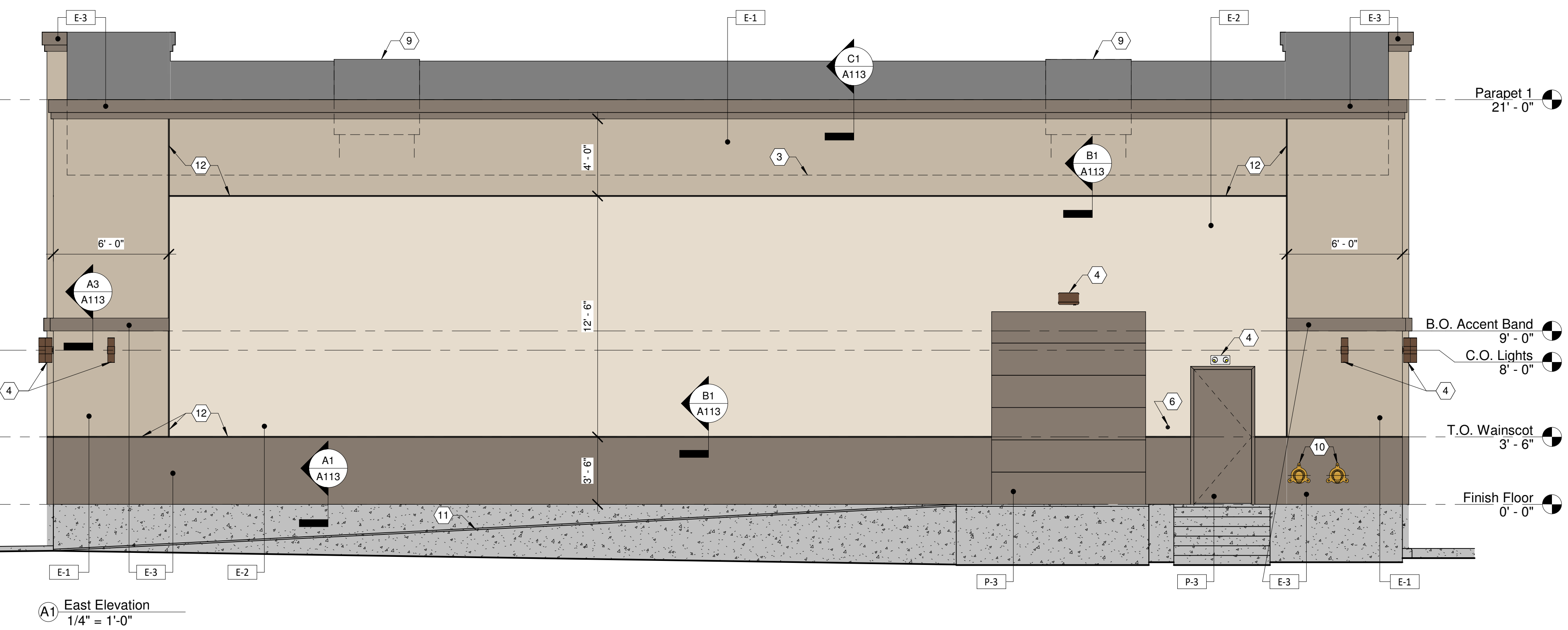
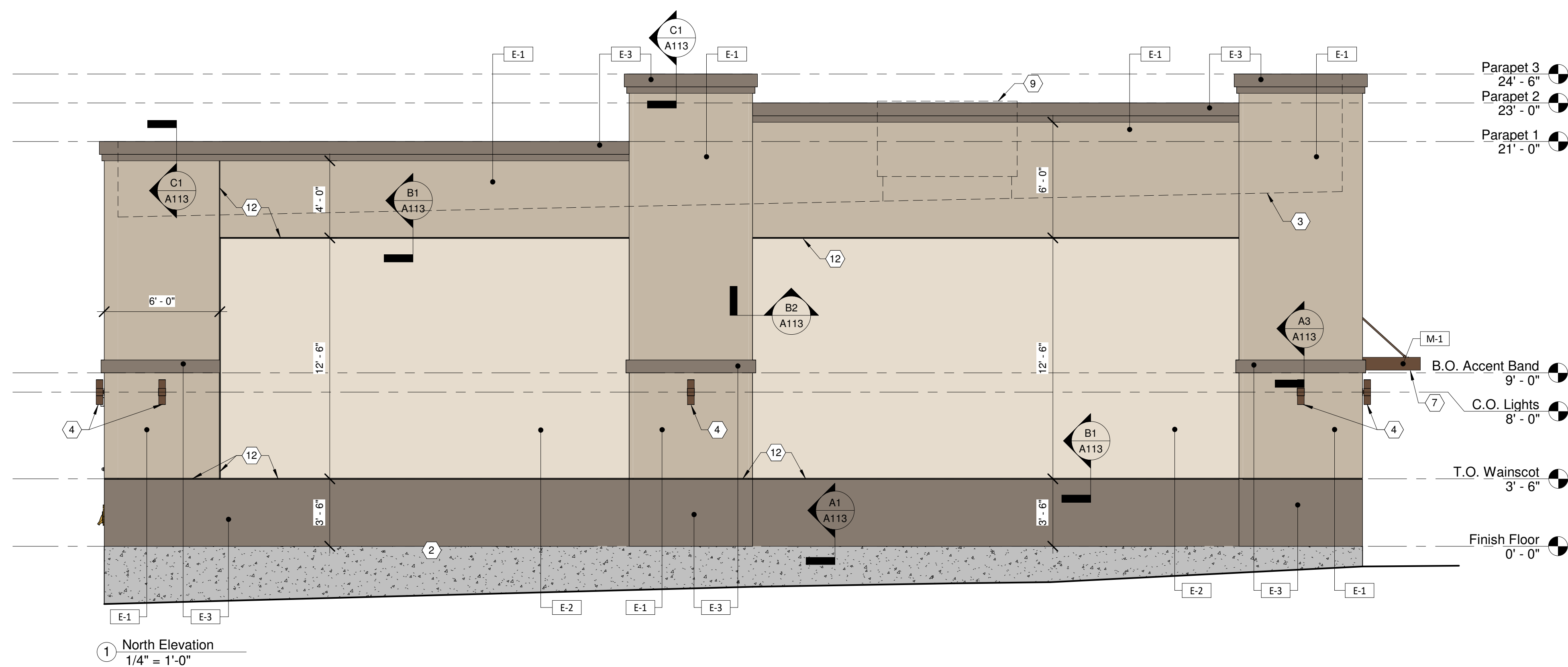
SHEET TITLE:
Exterior Elevations &
Window Schedule

SHEET NUMBER:
A200

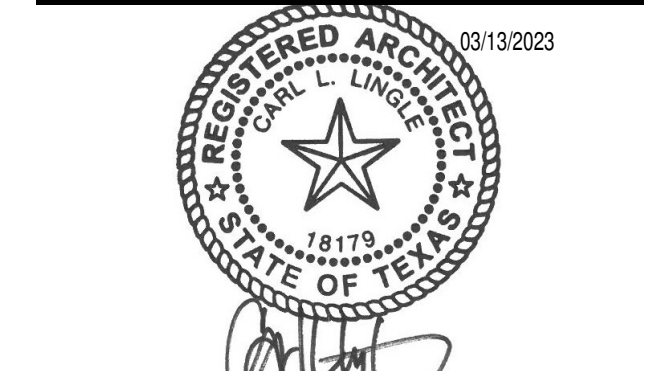
EXTERIOR FINISH SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER & SPEC	SAMPLE
E-1	EIFS - FIELD	SHERWIN-WILLIAMS COLOR: SW 7506 LOGGIA (SCORE LINES PER ELEVATIONS)	
P-1	PAINT		
E-2	EIFS - BAY	SHERWIN-WILLIAMS COLOR: SW 6105 DIVINE WHITE (PARAPET FLASHING TO MATCH)	
P-2	PAINT		
E-3	EIFS - FIELD	SHERWIN-WILLIAMS COLOR: SW 7025 BACKDROP (SCORE LINES PER ELEVATIONS)	
P-3	PAINT		
M-1	ANODIZED ALUMINUM	COLOR: DARK BRONZE (STOREFRONT)	

EXTERIOR ELEVATION CODED NOTES	
1	SIGNAGE UNDER SEPARATE PERMIT
2	UTILITY METER BANK - PAINT TO MATCH ADJACENT FINISH - COORDINATE WITH CIVIL
3	ROOF LINE BEHIND PARAPET
4	EXTERIOR LIGHTING - SEE SCHEDULE ON SHEET A130
5	KNOX BOX - MODEL 3200 RECESSED - COORDINATE PLACEMENT WITH FIRE PREVENTION BUREAU
6	BUZZER BUTTON
7	NEW METAL AWNING - MAPES LUMISHADE (OR EQUIVALENT) - 8" FASCIA
8	BUILDING ADDRESS PER 2018 IFC 505.1 - 4" HIGH MIN., 1/2" MIN. STROKE WIDTH
9	ROOF TOP UNIT BEYOND
10	ROOF DRAIN DOWNSPOUT NOZZLE PER SHEET A150 - NICKEL BRONZE FINISH - COORDINATE W/ CIVIL
11	DELIVERY RAMP - REF CIVIL
12	EIFS REVEAL - REF B1/A113

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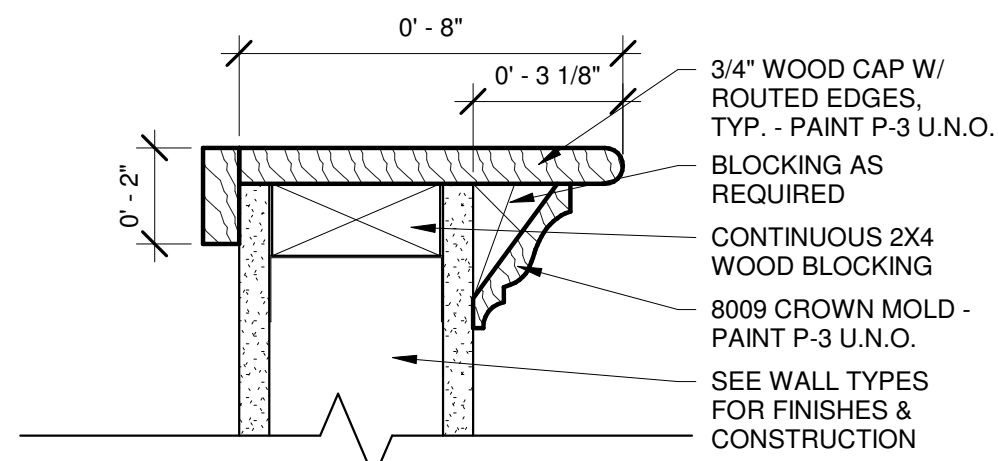
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SHERWIN WILLIAMS

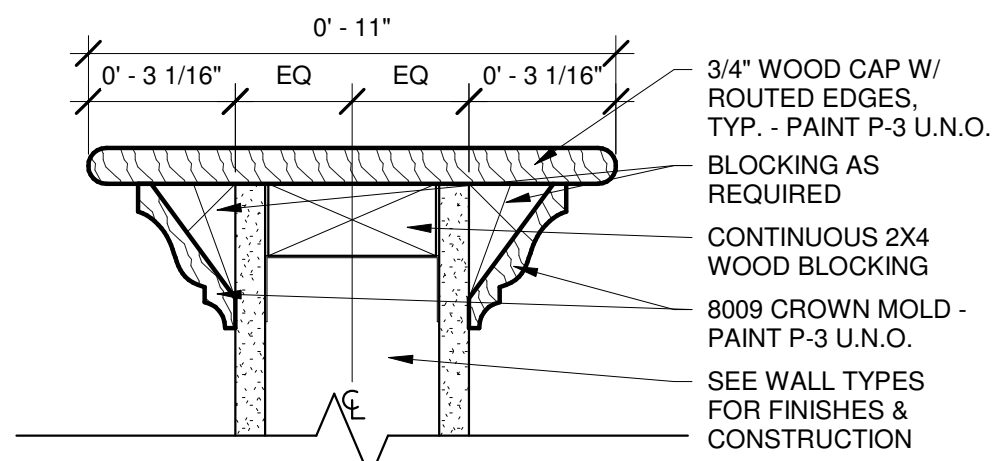
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FAIR OAKS RANCH, TX
78015

SHEET TITLE:
Exterior Elevations

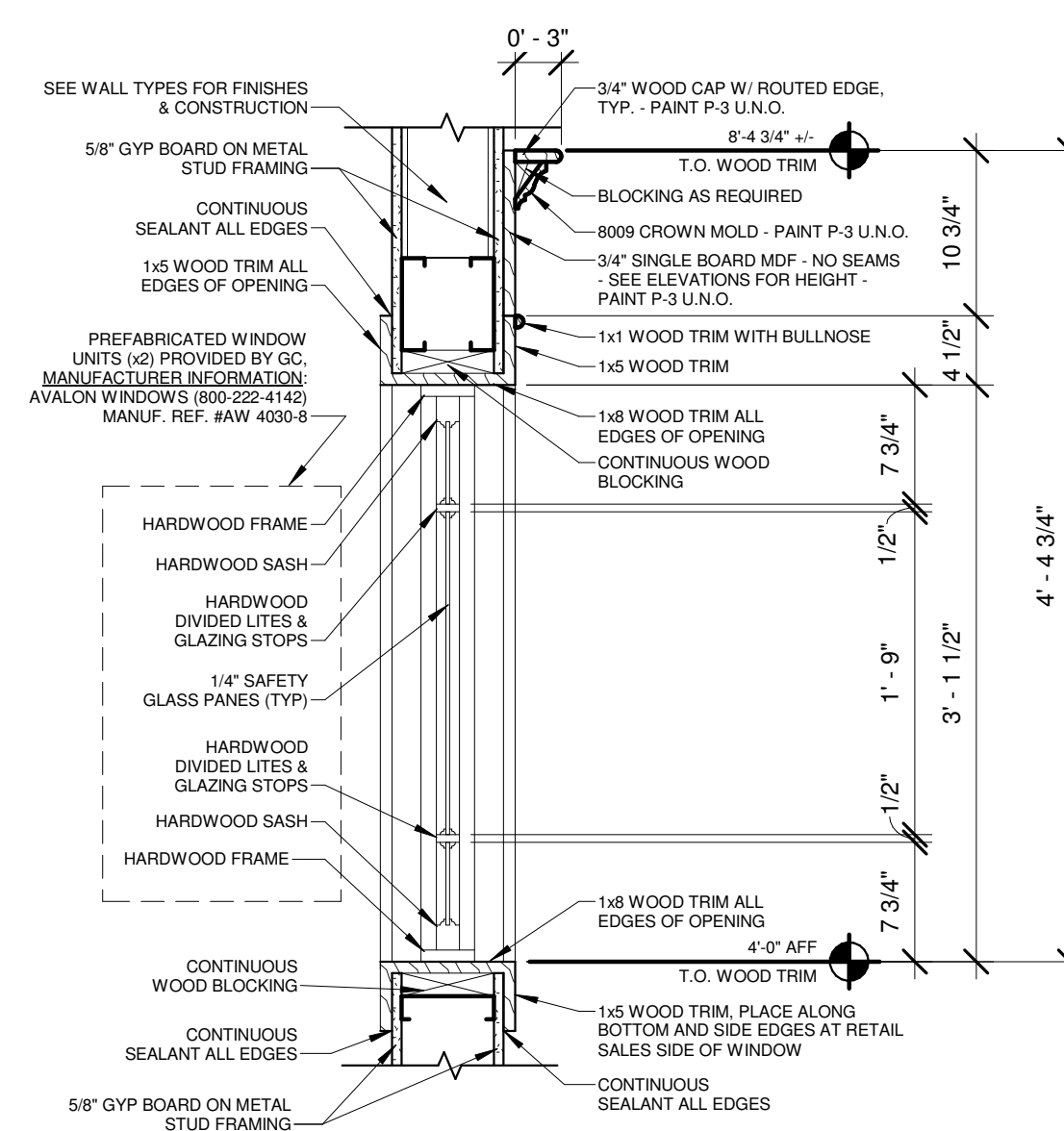
SHEET NUMBER:
A201



D1 WOOD CAP & TRIM (SINGLE)
3" = 1'-0"

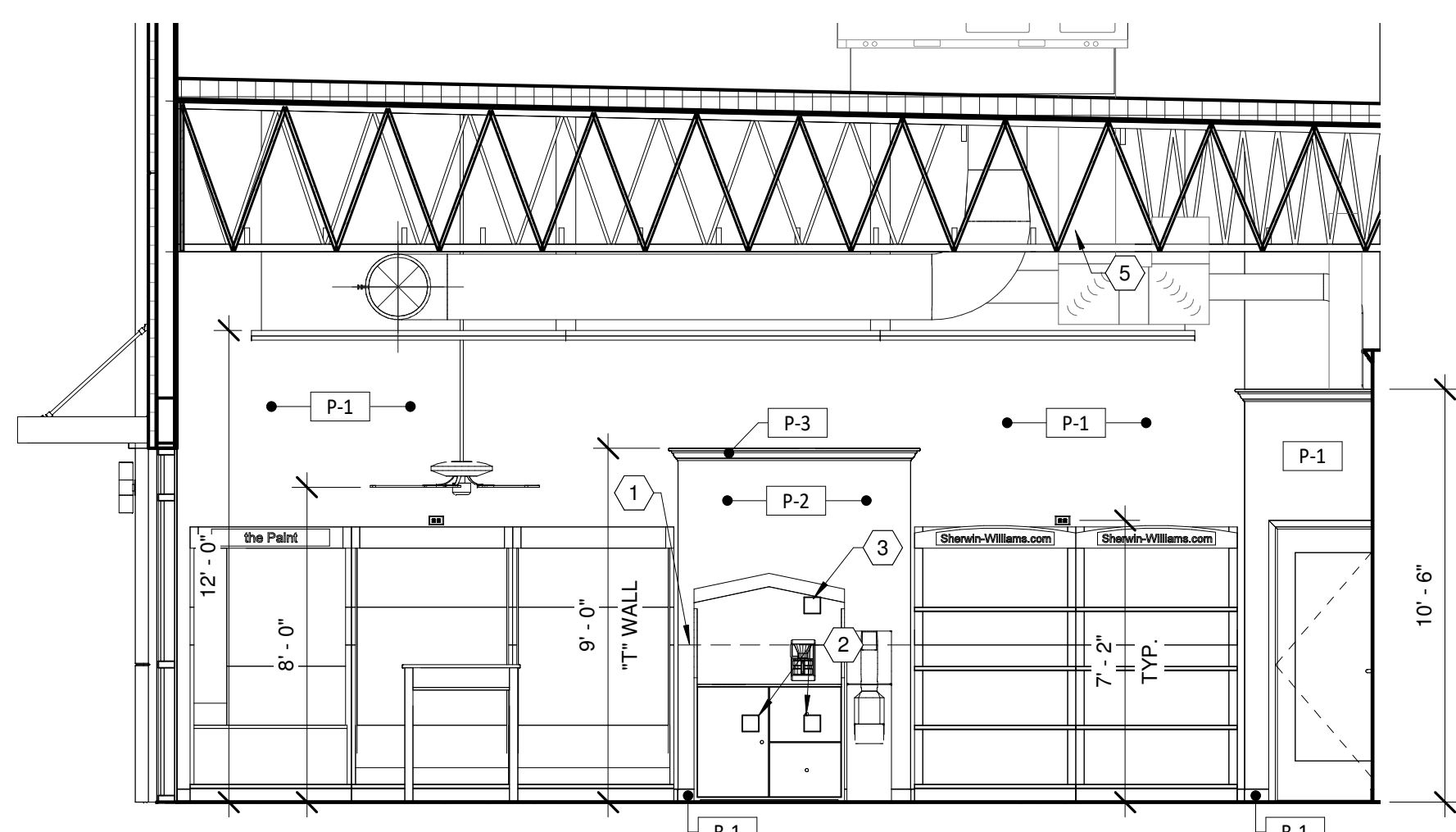


D2 WOOD CAP & TRIM (DOUBLE)
3" = 1'-0"

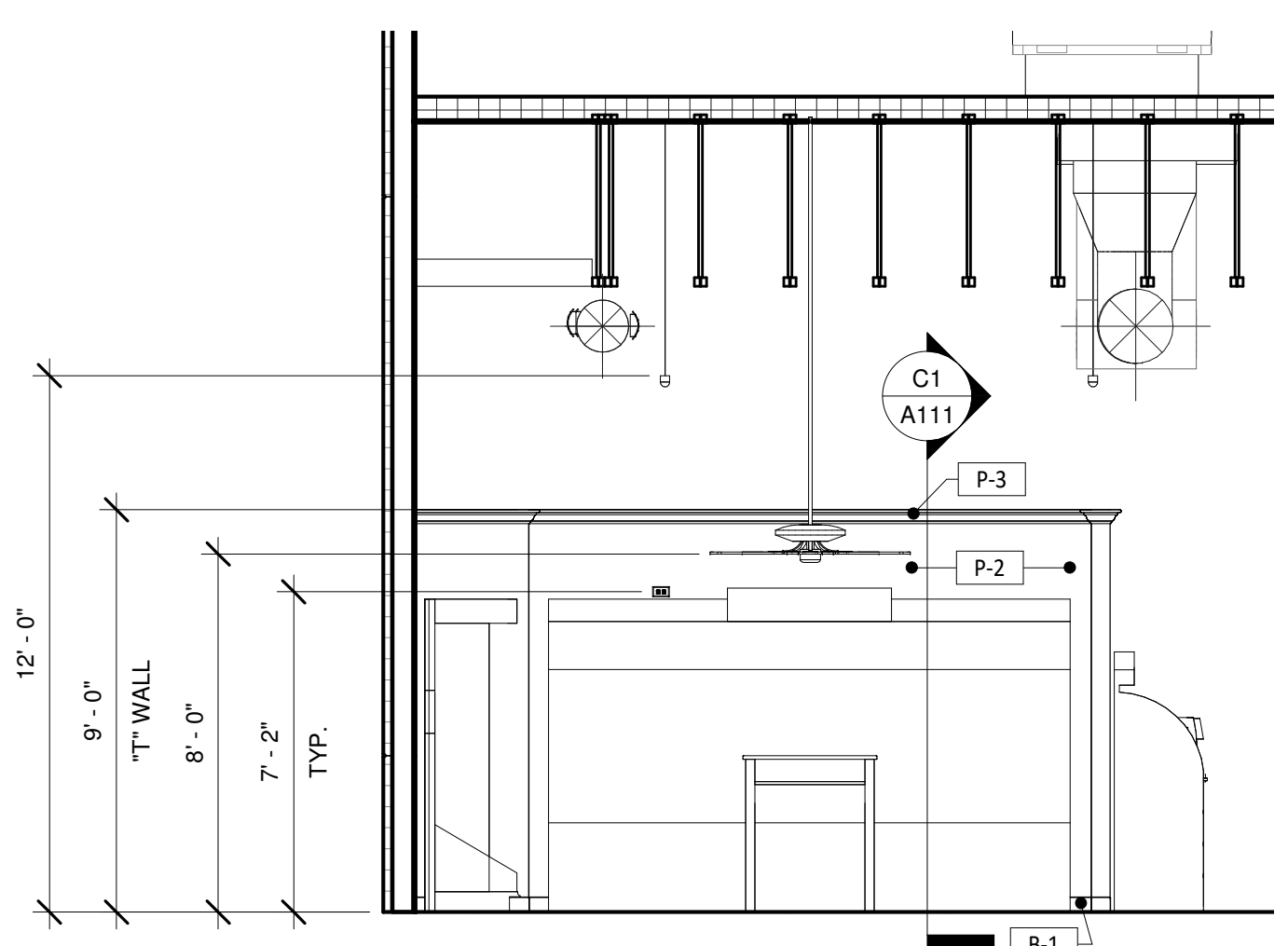


D3 WOOD TRIM (TINT WINDOW)
1" = 1'-0"

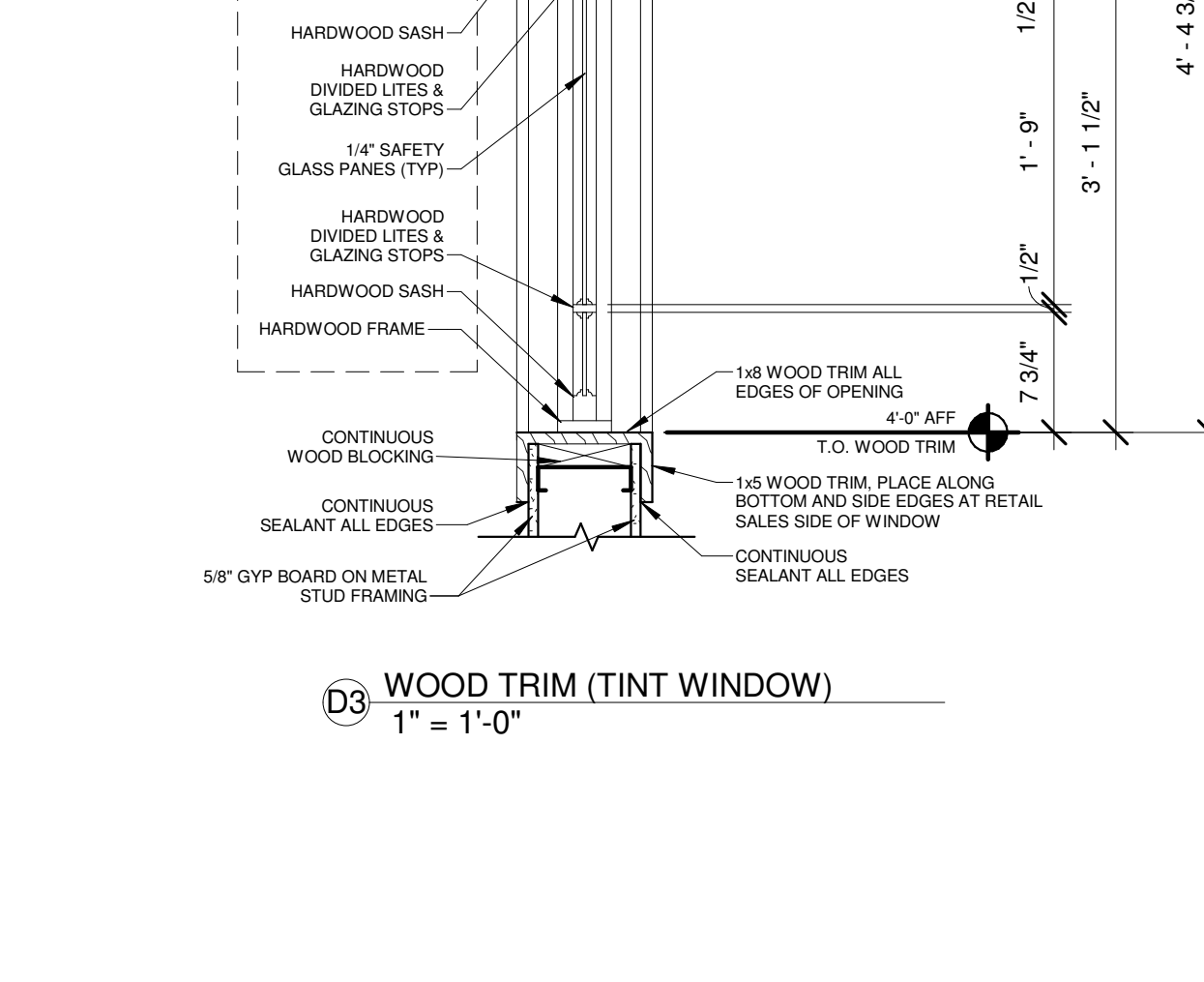
INTERIOR ELEVATION CODED NOTES	
1	3/4" PLYWOOD BACKING BOARD
2	QUAD OUTLET & WATER VALVE IN RECESSED BOX - COORDINATE W/ ELECTRICAL & PLUMBING
3	EXTEND CONDUIT FOR DATA J-BOX THROUGH PLYWOOD BACKING BOARD - TVL508 - COORDINATE W/ ELECTRICAL - TERMINATE AT DATA BOARD
4	CASED WINDOW BY AVALON - G.C. TO PROVIDE & INSTALL - COORDINATE SPEC W/ SHERWIN-WILLIAMS CORPORATE
5	CONFIRM HVAC DUCTWORK AND DIFFUSER/RETURN LOCATIONS WITH MECHANICAL SHEETS - HOLD DUCTWORK CLOSE TO STRUCTURE
6	STRUCTURAL COLUMNS TO BE PAINTED P-1



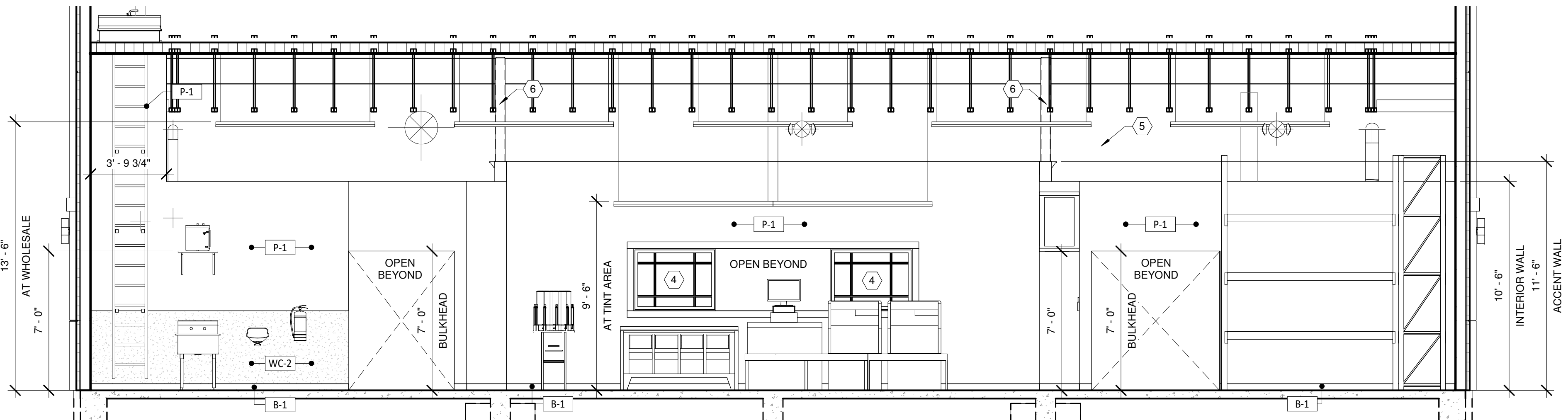
C1 Elevation @ Coffee Station
1/4" = 1'-0"



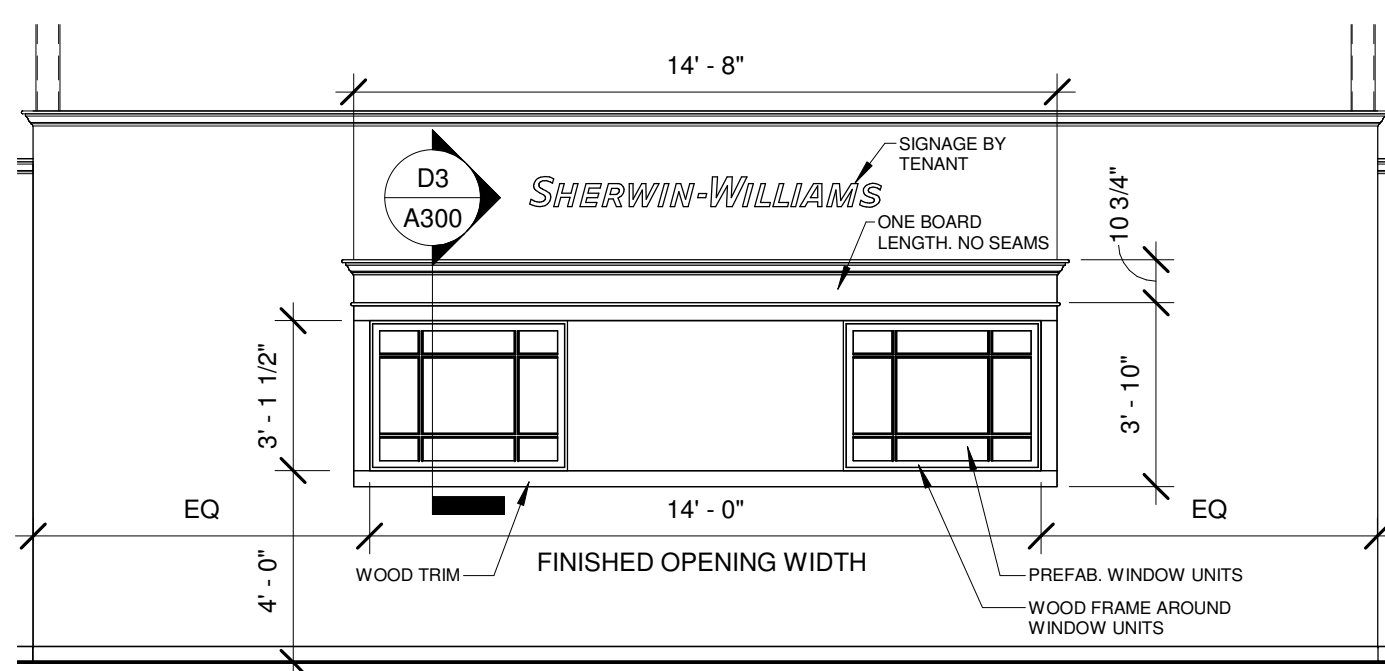
C3 Elevation @ "T" Wall
1/4" = 1'-0"



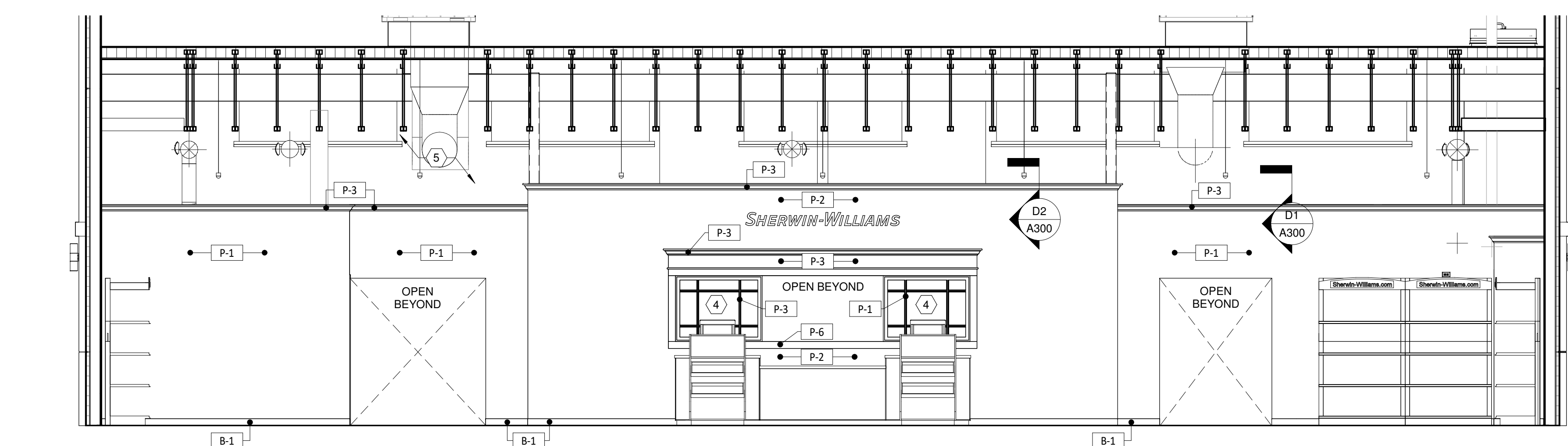
C5 Elevation @ Office
1/4" = 1'-0"



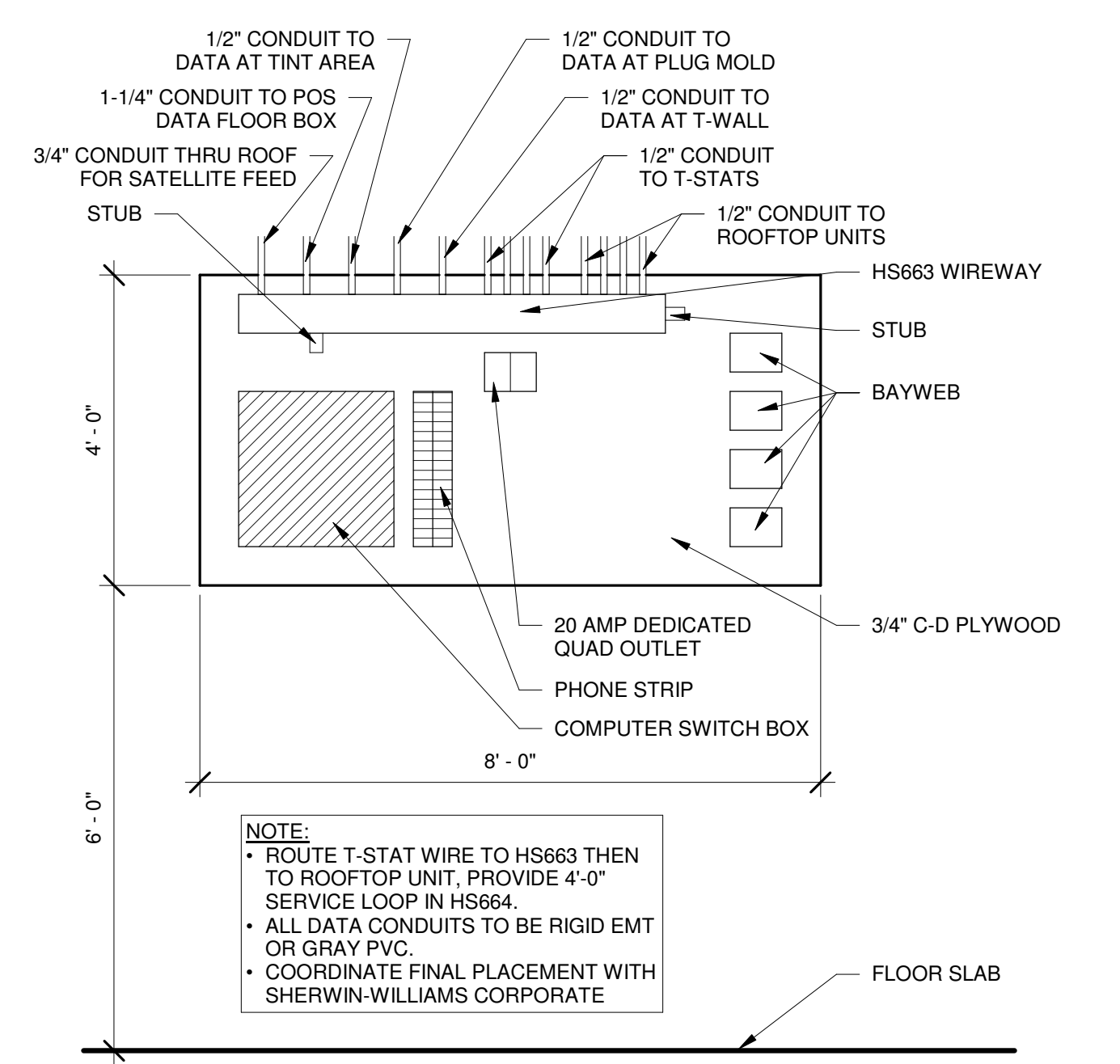
B1 Elevation @ Wholesale
1/4" = 1'-0"



B5 FEATURE WINDOW
1/4" = 1'-0"

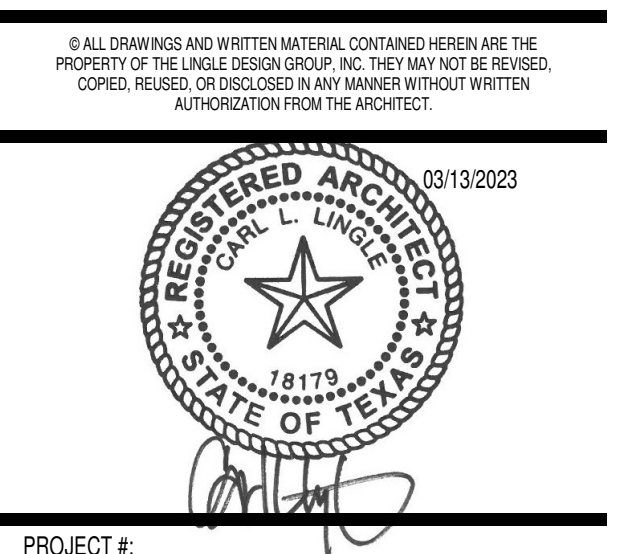


A1 Elevation @ Sales Area
1/4" = 1'-0"



A5 DATA SWITCH BOARD
1/2" = 1'-0"

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SHERWIN WILLIAMS
STORE #:
XXXX
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FAIR OAKS RANCH, TX
78015

SHEET TITLE:
Interior Elevations
SHEET NUMBER:
A300

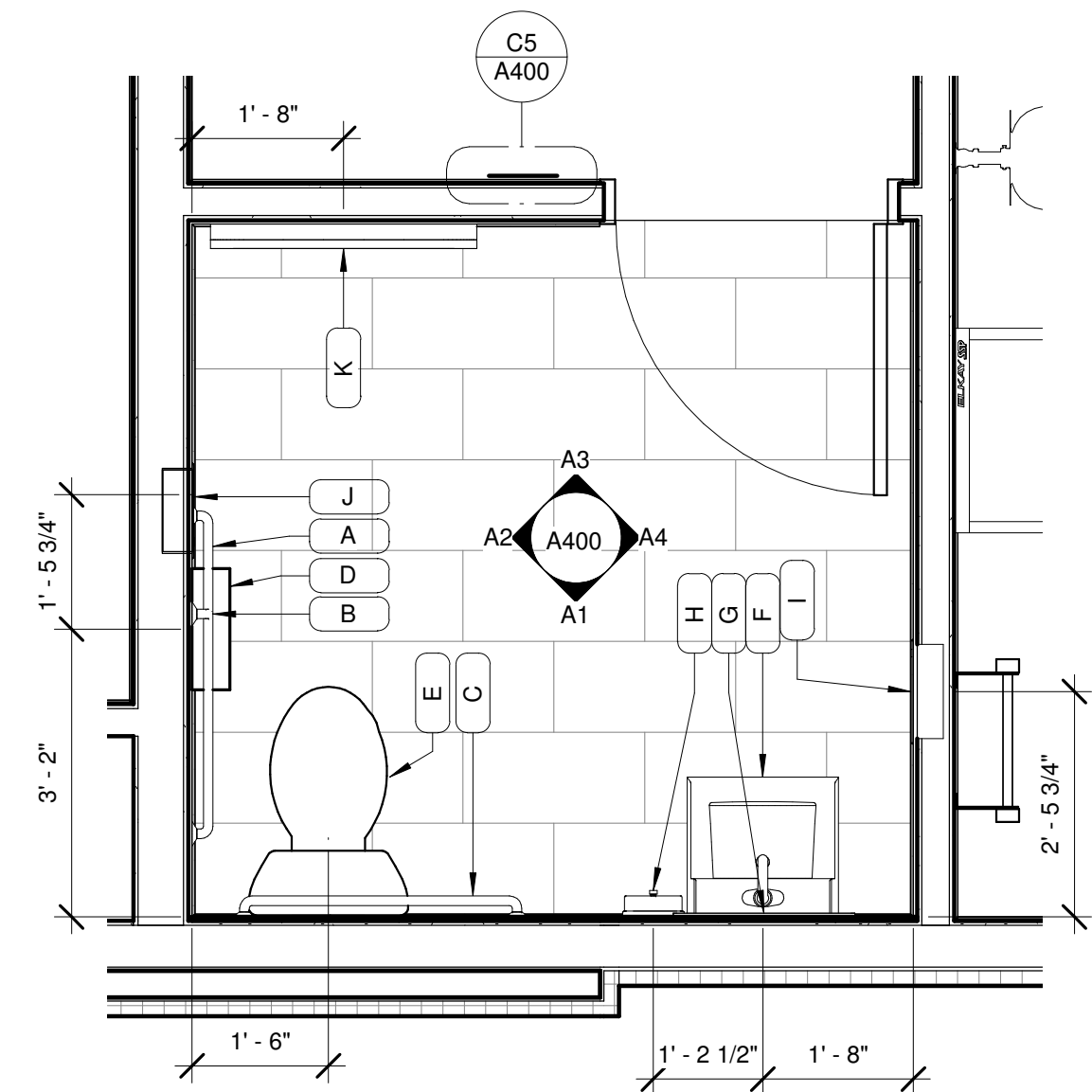
RESTROOM FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	REMARKS	PROVIDED/INSTALLED BY
A	42" GRAB BAR	BOBRICK	B-6808 X 42	(1) 2X6 4'-0" LONG CENTER MOUNTED @ 33" A.F.F. TO CENTER OF SUPPORT GRAB BAR - SEE DETAIL D5/A400	GC
B	18" GRAB BAR	BOBRICK	B-6808 X 18	2X6 WOOD BLOCKING FOR 18" VERTICAL GRAB BAR	GC
C	36" GRAB BAR	BOBRICK	B-6808 X36	(1) 2X6 4'-0" LONG CENTER MOUNTED @ 33" A.F.F. TO CENTER OF SUPPORT GRAB BAR - SEE DETAIL D5/A400	GC
D	TOILET TISSUE DISPENSER	BOBRICK	B-2840	INSTALL BLOCKING PER MANUFACTURER RECOMMENDATIONS	TENANT
E	WATER CLOSET	KOHLER	K-3519 WHITE	1 GALLON PER FLUSH - SEAT: KOHLER LUSTRA K-4650 WHITE	GC
F	LAVATORY	AMERICAN STANDARD	COMRADE 0124 024 020 WHITE	INTEGRATED PLUMBING SHROUD - FAUCET: BRADLEY S53-315 "AERADA 1200 Series CS FAUCET" - PLUG-IN ADAPTER, CAPACITIVE SENSING ACTIVATION NO SUBSTITUTIONS.	GC
G	MIRROR	BOBRICK	B-165 2436	INSTALL BLOCKING PER MANUFACTURER RECOMMENDATIONS	GC
H	SOAP DISPENSER	BOBRICK	B-2112	INSTALL BLOCKING PER MANUFACTURER RECOMMENDATIONS	TENANT
I	PAPER TOWEL DISPENSER	BOBRICK	B-396	INSTALL BLOCKING PER MANUFACTURER RECOMMENDATIONS	TENANT
J	SANITARY NAPKIN DISPOSAL	BOBRICK	B-353		GC
K	BABY CHANGING STATION	BOBRICK	KB200-01	INSTALL BLOCKING PER MANUFACTURER RECOMMENDATIONS	GC

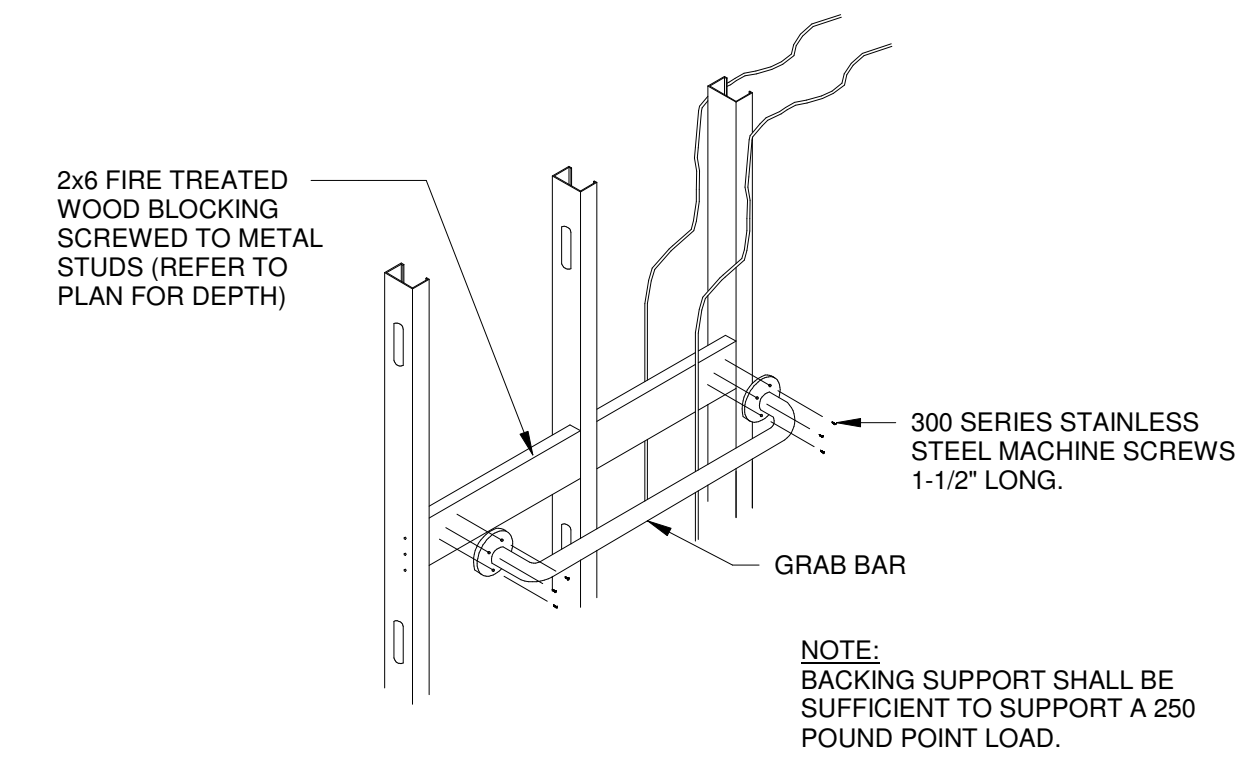
GENERAL NOTES

- ALL FIXTURES & ACCESSORIES MUST MEET ALL NATIONAL AND LOCAL CODES AND ADA REQUIREMENTS. PROVIDE SOLID FIRE TREATED BLOCKING AT ALL WALL MOUNTED FIXTURES FOR SECURE ANCHORING. VERIFY LOCATION WITH MANUFACTURERS SPECIFICATIONS. CLEAR SILICONE CAULK ALL FIXTURES TO PARTITION.
- WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR.
- THE FORCE REQUIRED TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING CONTROLS, SHALL BE NO GREATER THAN 5 LBF.
- SEE SHEET A110 FOR WALL DIMENSIONS.
- USE MOISTURE RESISTANT GYPSUM BOARD AT WALLS BEHIND PLUMBING FIXTURES.
- PROVIDE BATT INSULATION IN WALLS WHERE SCHEDULED ON SHEET A110.

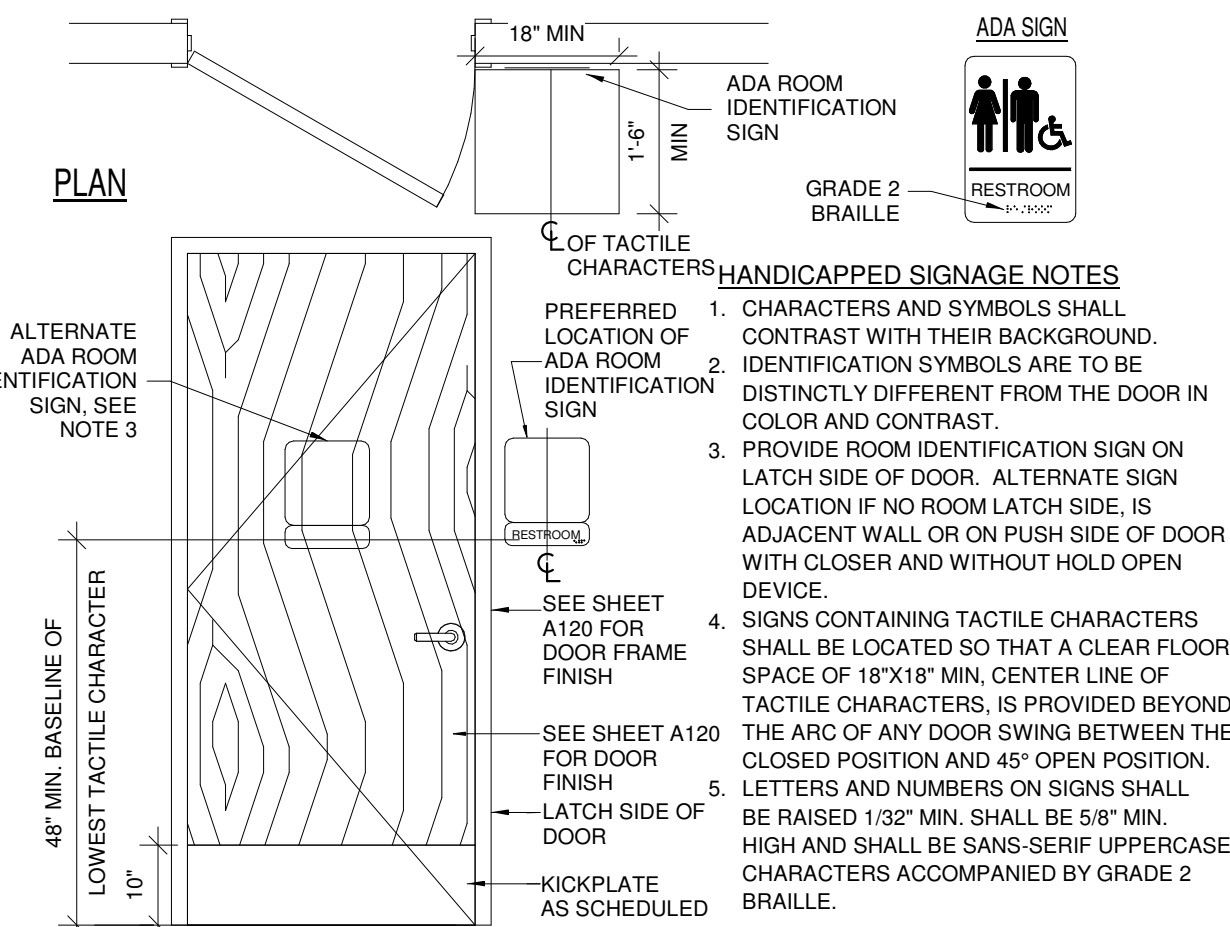
XX-X FINISH TAG - SEE FINISH SCHEDULE ON SHEET A120
 # DOOR TAG - SEE DOOR SCHEDULE ON SHEET A110



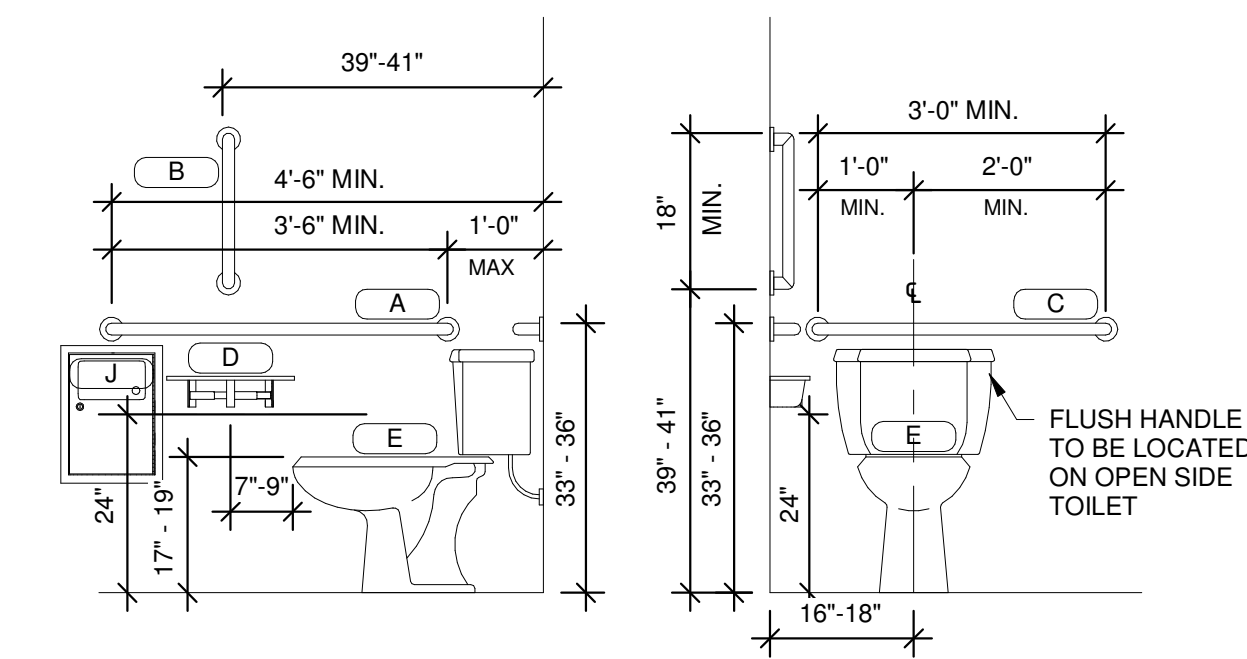
C1 Enlarged Restroom Plan
1/2" = 1'-0"



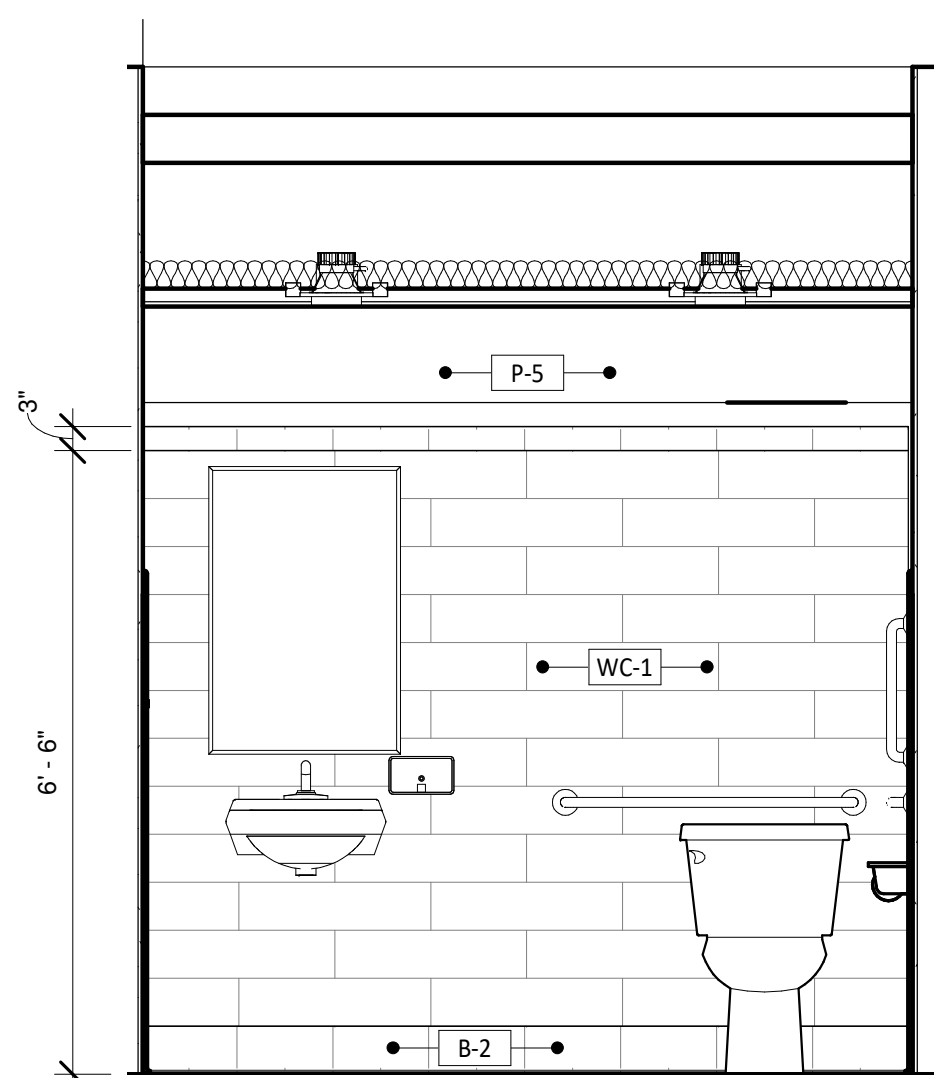
D5 TYP. GRAB BAR ATTACHMENT DETAIL
1/2" = 1'-0"



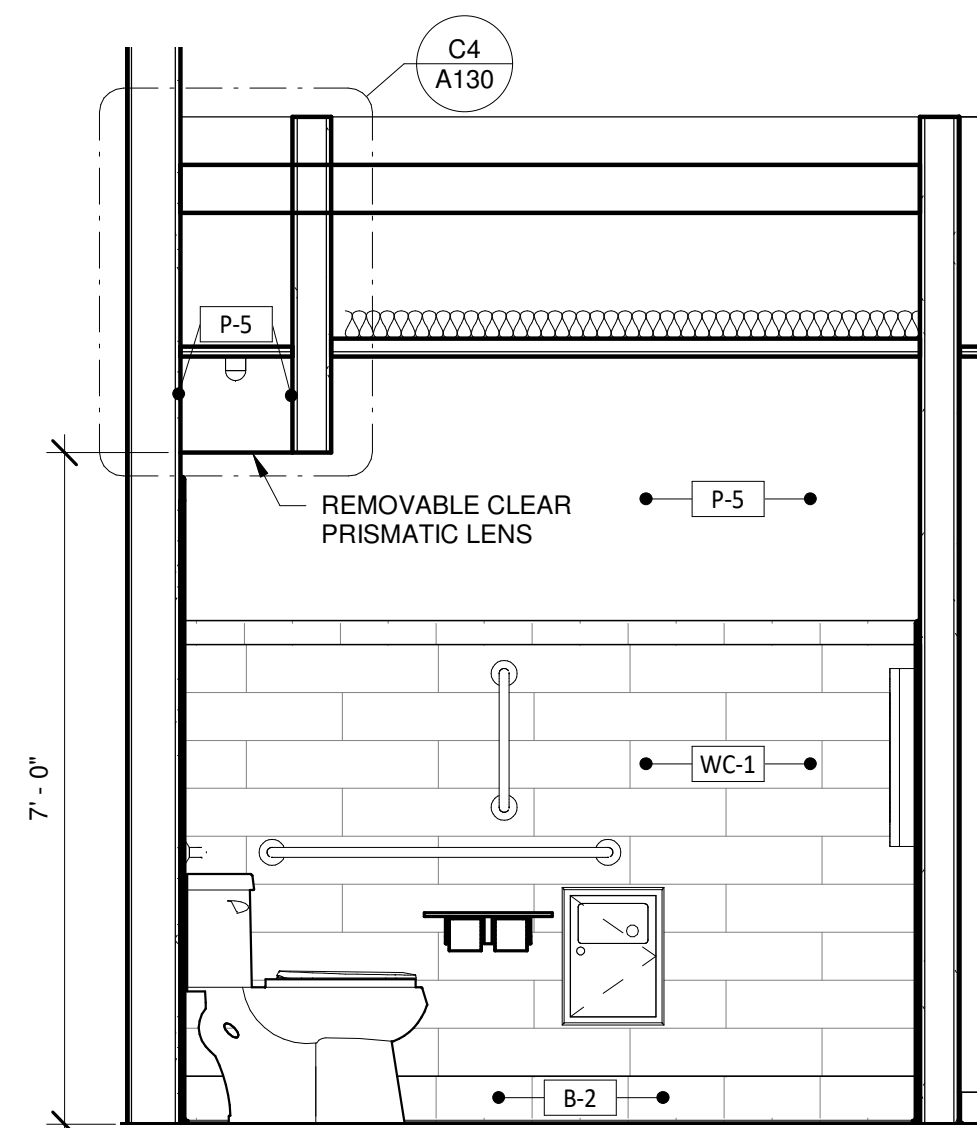
C5 RESTROOM SIGNAGE DETAIL PER ICC A117.1
1/2" = 1'-0"



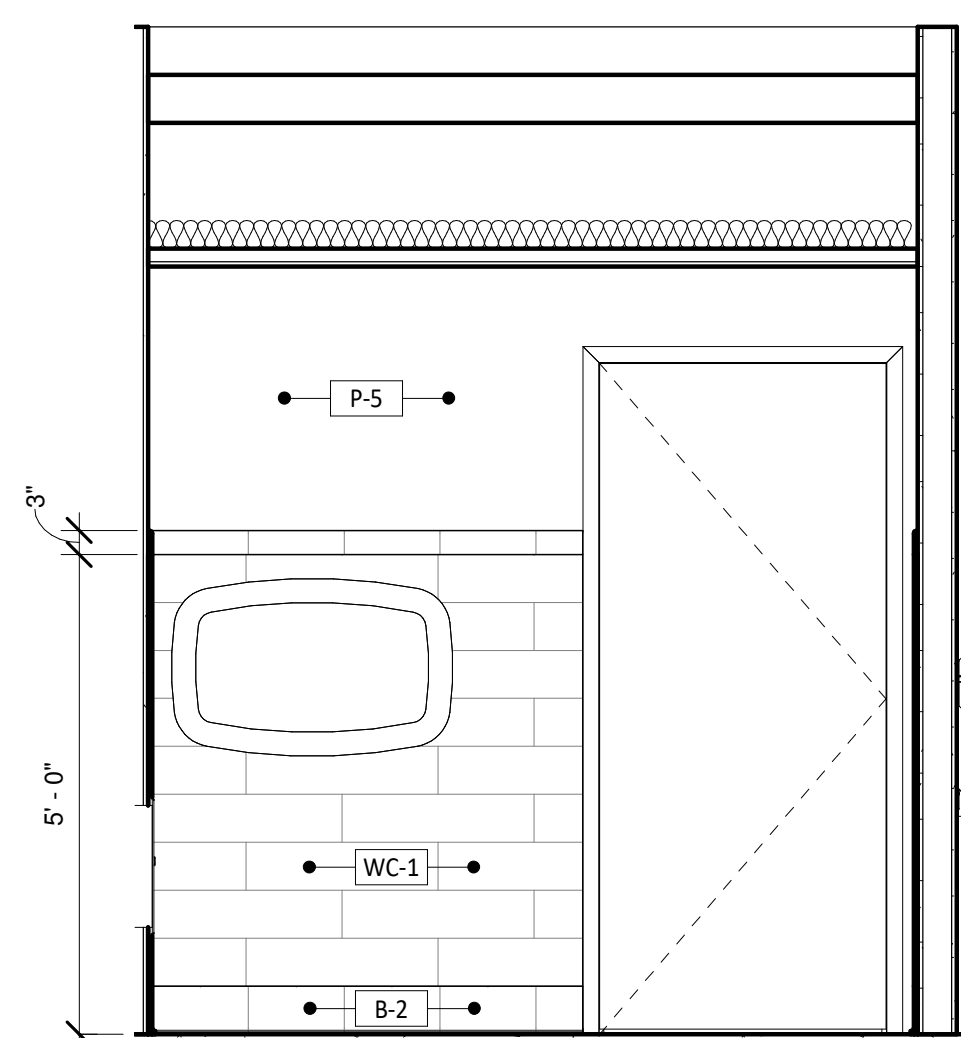
A5 REQUIRED ACCESSIBILITY CLEARANCES
1/2" = 1'-0"



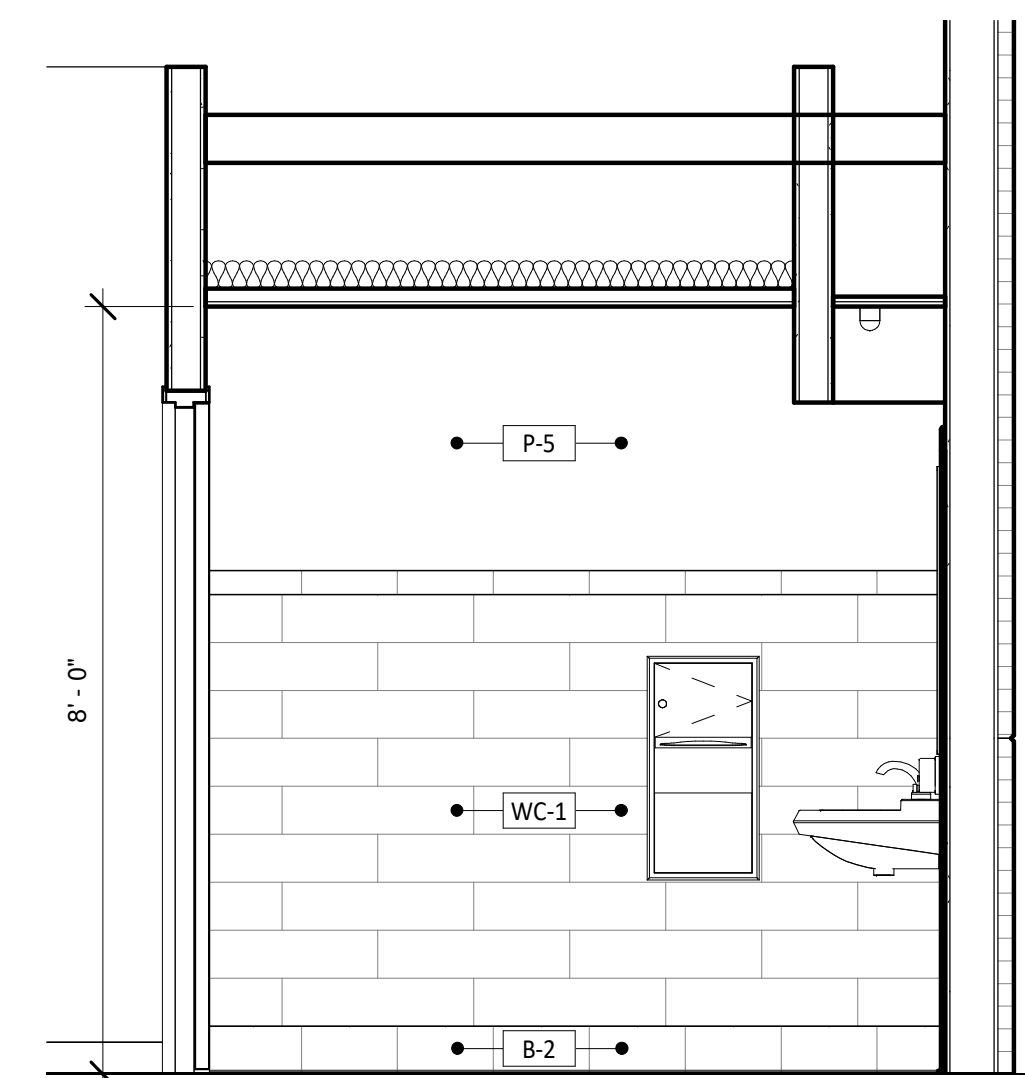
A1 RESTROOM ELEVATION
1/2" = 1'-0"



A2 RESTROOM ELEVATION
1/2" = 1'-0"



A3 RESTROOM ELEVATION
1/2" = 1'-0"



A4 RESTROOM ELEVATION
1/2" = 1'-0"

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SHERWIN WILLIAMS

STORE #:
 XXXX
 ADDRESS:
 9091 FAIR OAKS PKWY.
 FAIR OAKS RANCH, TX
 78015

SHEET TITLE:
 Enlarged Restroom Plan

SHEET NUMBER:
A400

SPECIAL INSPECTIONS NOTES

IBC 1705.3 - CONCRETE CONSTRUCTION	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCES
1. INSPECT REINFORCING STEEL, INCLUDING PRE-STRESSING TENDONS, AND PLACEMENT.		X	ACI 318 CH. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
2. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	-
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS				
4. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSIONS LOADS.	X		ACI 318: 17.8.2.4	-
6. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.		X	ACI 318: 17.8.2	
4. VERIFY USE OF REQUIRED DESIGN MIX	-	X	ACI 318 CH. 19, 26.4.2, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	X	ASTM C 172 ASTM C 311 ACI 318: 26.4.5, 26.12	1908.10
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.4.7-26.4.9	1908.9
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.10.1(B)	
IBC 1705.4 - MASONRY CONSTRUCTION	NOT REQ'D			
IBC 1705.5 - WOOD CONSTRUCTION		X		
IBC 1705.6 - SOILS				
EXCEPTIONS: 1. WHERE IBC SECTION 1803 DOES NOT REQUIRE REPORTING OF MATERIALS AND PROCEDURES FOR FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D 1557.				
VERIFICATION THAT PROPER MATERIALS AND PROCEDURES ARE USED DURING FILL PLACEMENT IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT		X		
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.		X		
IBC 1705.7 - DRIVEN DEEP FOUNDATIONS	NOT REQ'D			
IBC 1705.8 - CAST-IN-PLACE DEEP FOUNDATIONS	NOT REQ'D			
IBC 1705.9 - HELICAL PILE FOUNDATIONS	NOT REQ'D			
IBC 1705.10 - SPECIAL INSPECTION - WIND RESISTANCE	NOT REQ'D			
IBC 1705.11 - SPECIAL INSPECTION - SEISMIC RESISTANCE	NOT REQ'D			
IBC 1705.12 - TESTING FOR SEISMIC RESISTANCE	NOT REQ'D			

REQUIRED STRUCTURAL SPECIAL INSPECTIONS			
SPECIAL INSPECTION	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
IBC 1704.5 - INSPECTION OF FABRICATORS			
WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION.	X		
EXCEPTIONS: 1. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE FABRICATOR MAINTAINS APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND THE BUILDING CODE. APPROVAL SHALL BE BASED UPON REVIEW OF FABRICATION AND QUALITY CONTROL PROCEDURES AND PERIODIC INSPECTION OF FABRICATION PRACTICES BY THE BUILDING OFFICIAL. 2. SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5.2.			

IBC 1705.7 - STEEL CONSTRUCTION	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
STRUCTURAL STEEL IN ACCORDANCE WITH QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360		X	AISC 360
IBC 1705.2.2 - COLD-FORMED STEEL DECK			
SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK			S01 QA/QC
IBC 1705.2.3 - OPEN WEBB STEEL JOISTS AND JOIST GIRDERS			
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.			
a. END CONNECTIONS - WELDING OR BOLTED			SII SPECIFICATION LISTED IN SECTION Z207.1
b. BRIDGING - HORIZONTAL OR DIAGONAL			
1. STANDARD BRIDGING.			SII SPECIFICATION LISTED IN SECTION Z207.1
2. BRIDGING THAT DIFFERS FROM SII SPECIFICATION LISTED IN SECTION Z207.1.			

STRUCTURAL SPECIAL INSPECTION NOTES:

- SPECIAL INSPECTIONS ARE NOT REQUIRED FOR CONSTRUCTION OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL.
- UNLESS OTHERWISE REQUIRED BY THE BUILDING OFFICIAL, SPECIAL INSPECTIONS ARE NOT REQUIRED FOR GROUP U OCCUPANCIES THAT ARE ACCESSORY TO A RESIDENTIAL OCCUPANCY INCLUDING, BUT NOT LIMITED TO, THOSE LISTED IN IBC SECTION 312.1.
- SPECIAL INSPECTIONS ARE NOT REQUIRED FOR PORTIONS OF STRUCTURES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION PROVISIONS OF IBC SECTION 2211.7 OR THE CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS OF IBC SECTION 2308.
- THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705 OF THE INTERNATIONAL BUILDING CODE (2015). THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS IDENTIFIED IN SECTION 110.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
 - THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED AGENCY WHO SHALL PROVE TO THE SATISFACTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE BUILDING OFFICIAL THAT HE/SHE HAS THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION.
 - THE SPECIAL INSPECTOR IS RESPONSIBLE TO REVIEW THE APPROVED CONSTRUCTION DOCUMENTS THOROUGHLY AND SUFFICIENTLY AHEAD OF CONSTRUCTION TO ESTABLISH THEIR ABILITY TO INSPECT OF THOSE ITEMS ENTRUSTED TO THEM. ALL ERRORS AND/OR OMISSIONS IN THE APPROVED PLANS THAT CREATE AND FORM OF AMBIGUITY OR DOUBT FOR THE SPECIAL INSPECTOR SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
 - THE SPECIAL INSPECTOR IS RESPONSIBLE FOR VERIFICATION OF ITEMS DETAILED IN THE DESIGN DRAWINGS AND SPECIFICATIONS BUILT INTO THE PROJECT.
 - THE SPECIAL INSPECTOR SHALL NOT SUGGEST, DIRECT, OR APPROVE DEVIATION FROM THE DESIGN DRAWINGS AND SPECIFICATIONS OR THE APPROVED SHOP AND ERECTION DRAWINGS, OR APPROVE SUCH DEVIATION, WITHOUT THE WRITTEN APPROVAL BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
 - THE SPECIAL INSPECTOR SHALL BRING NON-COMPLYING ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. IF CORRECTING THE NON-COMPLYING ITEMS IS NOT IN A TIMELY MANNER OR IGNORED, THE SPECIAL INSPECTOR IS TO PREPARE, SIGN AND SUBMIT A NOTICE OF NON-COMPLIANCE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, THE BUILDING OFFICIAL, THE CONTRACTOR AND THE OWNER.
 - THE SPECIAL INSPECTOR IS RESPONSIBLE TO KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL PREPARE, SIGN AND SUBMIT INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE REPORTS OF REQUIRED SPECIAL INSPECTIONS. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
 - HE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTIONS WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE. CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE APPLICANT AND THE BUILDING OFFICIAL.
- WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF SPECIFIED QUALITY ASSURANCE TESTING, DUPLICATE INSPECTIONS WILL NOT BE REQUIRED.

STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS.
- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS:
 - WIDE-FLANGE.....ASTM A-992 (Fy=50 KSI)
 - HSS (SQUARE, RECTANGULAR).....ASTM A-500, GRADE B (Fy=46 KSI)
 - HSS (ROUND).....ASTM A-500, GRADE B (Fy=42 KSI)
 - PIPE.....ASTM A-53, GRADE B (Fy=35 KSI)
 - ALL OTHER STEEL.....ASTM A-36 (Fy= 36 KSI).
- CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR CONNECTION DESIGN:
 - ANGLES.....ASTM A36
 - WTS.....ASTM A992
 - PLATES.....ASTM A36
 - BOLTS.....ASTM A325
 - NUTS.....ASTM A563
 - WASHERS.....ASTM F436
 - ANCHOR RODS.....ASTM F1554 GR 55 WITH WELDABILITY SUPPLEMENT S1
 - HEADED STUD.....ASTM A108, GRADE 1010 THROUGH 1020 HEADED STUD TYPE, COLD-FINISHED CARBON STEEL, AWS D1.1., TYPE B.
 - WELD ELECTRODES.....E70XX
- ALL BEAMS AND COLUMNS SHALL BE FULL LENGTH WITHOUT SPLICES UNLESS OTHERWISE INDICATED ON PLANS.
- REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR VERIFICATION OF ALL BOLTS, BLOCKING ANCHORS, ETC., FOR THE ANCHORAGE OF THEIR RESPECTIVE ITEMS.
- ALL SHOP AND FIELD WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN QUALIFIED AND CERTIFIED TO MAKE THE REQUIRED WELDS IN ACCORDANCE WITH THE LATEST AMERICAN WELDING SOCIETY SPECIFICATIONS A.W.S. D1.1.
- ALL FILLET WELDS SHALL BE 3/16" UNLESS OTHERWISE NOTED.
- DESIGN OF ALL CONNECTIONS NOT SHOWN SHALL BE PERFORMED BY THE FABRICATOR UNDER THE SUPERVISION OF A REGISTERED ENGINEER. CONNECTIONS SHALL CONFORM TO AISC SPECIFICATIONS, AND SHALL BE CAPABLE OF SUPPORTING 55% OF THE MAXIMUM LOAD OF THE MEMBER FOR THE SPAN SHOWN AND THE MATERIAL SPECIFIED IN THE AISC HANDBOOK, LATEST EDITION.
- ALL LINTEL ANGLES OVER OPENINGS IN EXTERIOR WALLS UP TO 6'-0" NOT OTHERWISE COVERED SHALL BE L5X5X3/8. PROVIDE 4" MINIMUM BEARING AT EACH END OF LINTEL ANGLES SUPPORTED BY MASONRY VENEER.
- SHOP DRAWINGS SHALL BE PREPARED FOR ALL MISCELLANEOUS STEEL ITEMS INCLUDING STAIRS AND HANDRAILS FOR REVIEW BY THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BE SUBMITTED WITH THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE
- ALL STRUCTURAL STEEL, EXCEPT EMBEDDED ITEMS, SHALL BE PAINTED WITH ONE SHOP COAT OF RUST INHIBITIVE PAINT.
- ALL BOLTS SHALL BE TIGHTENED BY THE AISC "SNUG TIGHT" METHOD UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED G-90 COATING. ANY DAMAGE TO THE GALVANIC MATERIAL DURING WELDING SHALL BE TOUCHED UP WITH GALVANIZING REPAIR PAINT: HIGH-ZINC-DUST-CONTENT PAINT FOR REGALVANIZING WELDS AND REPAIR PAINTING GALVANIZED STEEL, WITH DRY FILM CONTAINING NOT LESS THAN 93 PERCENT ZINC DUST BY WEIGHT, AND COMPLYING WITH DOD-P-21035A OR SSPC-PAINT 20.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	FOOTING MARK SPREAD FOOTING, REF SCHEDULE ON S002
	BEAM MARK GRADE BEAM, REF SCHEDULE ON S002
	COL. MARK STEEL COLUMN, REF. S101
	INDICATES COMPLETE PENETRATION MOMENT CONNECTIONS (1/S303)
	INDICATES SHEAR WALL REF. SHT. S002 FOR SHEARWALL SCHEDULES AND S4.2 FOR ELEVATION
	INDICATES KEYNOTE REF. SHT. S101 FOR KEYNOTE SCHEDULES
NOTE(S): 1. ITEMS IN LEGEND MAY NOT APPEAR ON ALL PLANS	

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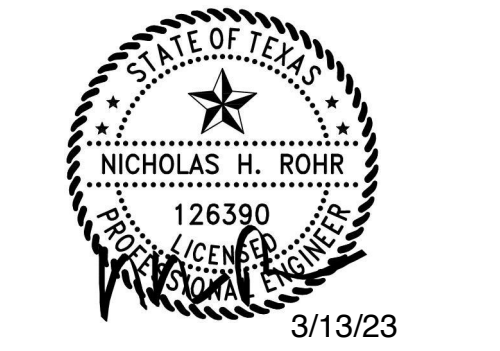
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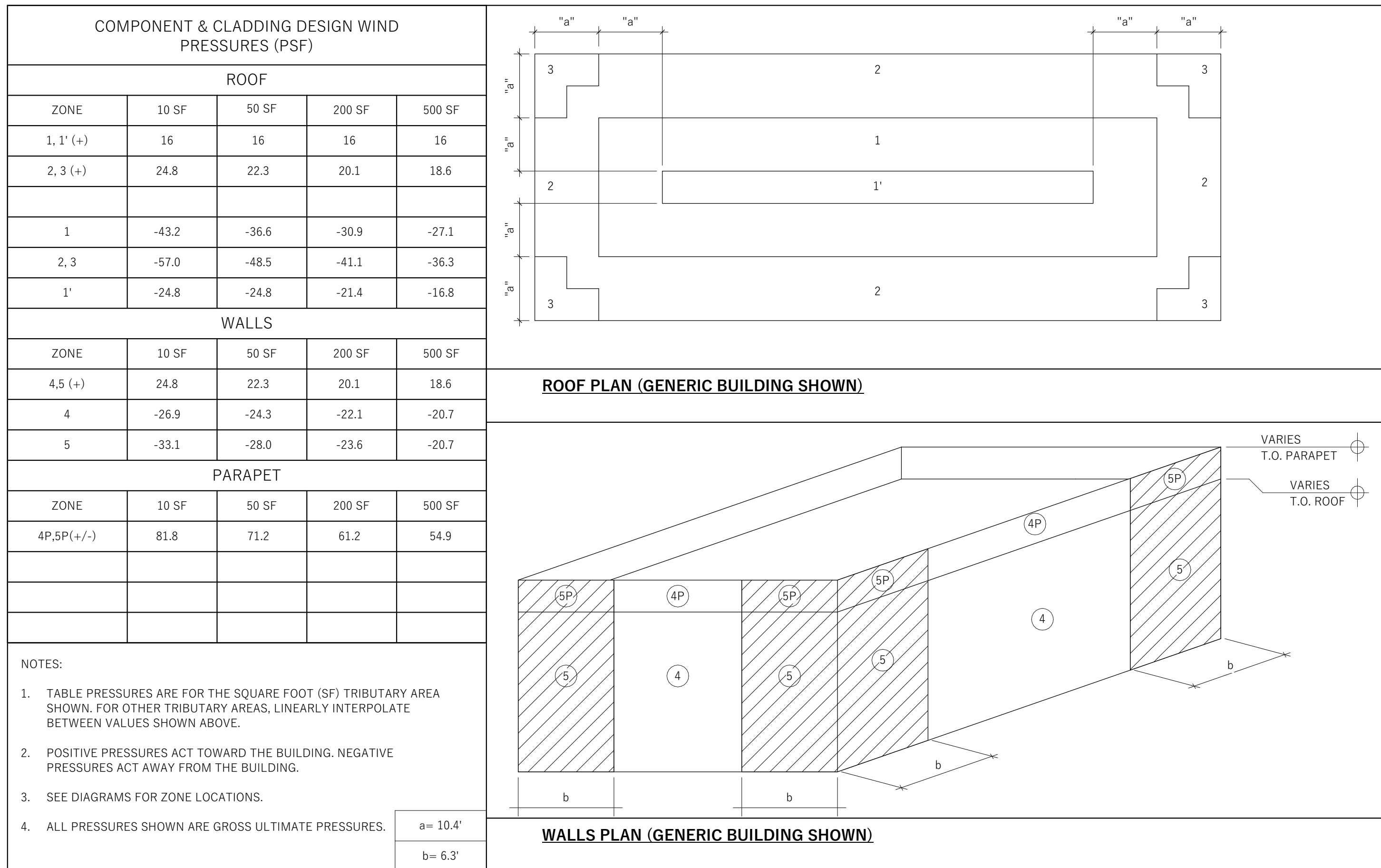
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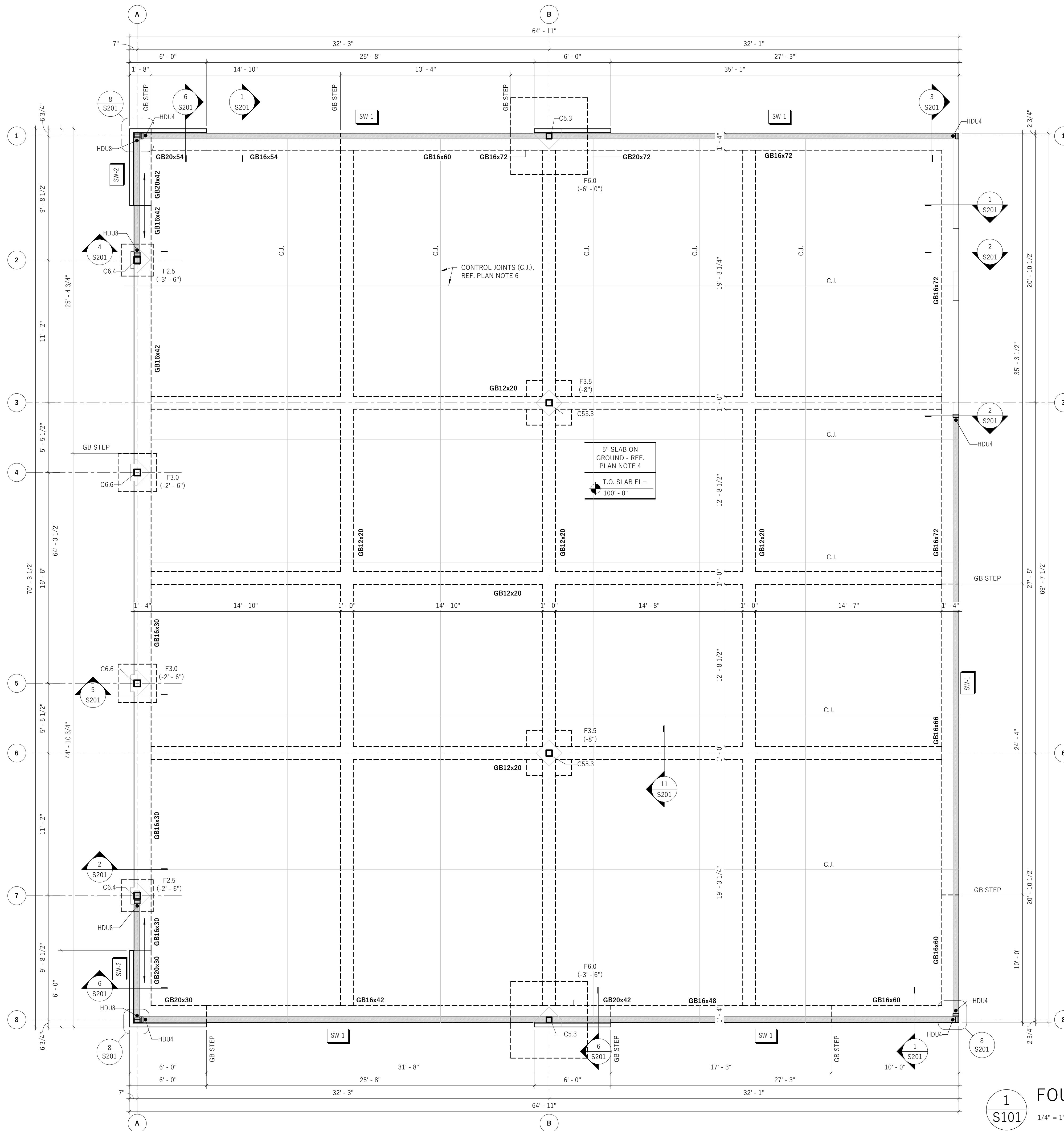
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78015

SHEET TITLE:
GENERAL
NOTES,
SCHEDULES,
AND DIAGRAMS

SHEET NUMBER:
S002





1
S101
1/4" = 1'-0"

SPREAD FOOTING SCHEDULE				
MARK	WIDTH	LENGTH	THICKNESS	REINFORCING
F2.5	2' - 6"	2' - 6"	1' - 0"	(3) #5 BARS E.A. WAY BOTT.
F3.0	3' - 0"	3' - 0"	1' - 0"	(3) #5 BARS E.A. WAY BOTT.
F3.5	3' - 6"	3' - 6"	1' - 0"	(4) #5 BARS E.A. WAY BOTT.
F6.0	6' - 0"	6' - 0"	1' - 0"	(6) #5 BARS E.A. WAY BOTT.

STRUCTURAL COLUMN SCHEDULE								
MARK	COLUMN SIZE	BP TYPE	BASEPLATE SCHEDULE				ANCHOR BOLTS	
			BASEPLATE DIMENSIONS					
			"A"	"B"	"D"	"L"		"t"
C5.3	HSS5X5X3/16	BP-B	4 1/2"	9"	1' - 0"	1' - 0"	3/4"	(4) 3/4" x 9" EMBED
C6.4	HSS6X6X1/4	BP-B	4 1/2"	10"	1' - 2"	1' - 2"	3/4"	(4) 3/4" x 9" EMBED
C6.6	HSS6X6X3/8	BP-B	5"	11"	1' - 4"	1' - 2"	3/4"	(4) 3/4" x 9" EMBED
C55.3	HSS5-1/2X5-1/2X3/16	BP-A	4 1/2"	4 1/2"	1' - 0"	1' - 0"	3/4"	(4) 3/4" x 9" EMBED

GRADE BEAM SCHEDULE						
MARK	WIDTH	DEPTH	TOP BARS	BOTTOM BARS	STIRRUPS	NOTES
GB12x20	1' - 0"	1' - 8"	(2) #5 BARS CONT.	(2) #5 BARS CONT.	#3 TIES AT 24" O.C.	
GB16x30	1' - 4"	2' - 6"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	
GB16x42	1' - 4"	3' - 6"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	ADD'L #3 BAR EA. FACE AT 12" O.C.
GB16x48	1' - 4"	4' - 0"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	ADD'L #3 BAR EA. FACE AT 12" O.C.
GB16x54	1' - 4"	4' - 6"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	ADD'L #3 BAR EA. FACE AT 12" O.C.
GB16x60	1' - 4"	5' - 0"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	ADD'L #3 BAR EA. FACE AT 12" O.C.
GB16x66	1' - 4"	5' - 6"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	ADD'L #3 BAR EA. FACE AT 12" O.C.
GB16x72	1' - 4"	6' - 0"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	ADD'L #3 BAR EA. FACE AT 12" O.C.
GB20x30	1' - 8"	2' - 6"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	
GB20x42	1' - 8"	3' - 6"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	ADD'L #3 BAR EA. FACE AT 12" O.C.
GB20x54	1' - 8"	4' - 6"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	ADD'L #3 BAR EA. FACE AT 12" O.C.
GB20x72	1' - 8"	6' - 0"	(3) #5 BARS CONT.	(3) #5 BARS CONT.	#3 TIES AT 24" O.C.	ADD'L #3 BAR EA. FACE AT 12" O.C.

SHEARWALL SCHEDULE						
SHEAR WALL MARK	SHEARWALL ATTACHMENT			HOLDOWNS		
	SHEATING	EDGE NAILING	LATERAL TIE PLATE CO.	END POST	HOLDOWN	ANCHOR BOLTS
1	15/32" PLYWOOD	10d NAILS AT 6" O.C.	LTP4 AT 36" O.C.	(2) 2x	HDU4	1/2" AB AT 48" O.C.
2	15/32" PLYWOOD	10d NAILS AT 4" O.C.	LTP4 AT 12" O.C.	(3) 2x	HDU8	1/2" AB AT 18" O.C.

ALL HOLDOWN ANCHOR BOLTS SHOWN ON PLANS REPRESENT A GENERAL LOCATION AND MUST BE VERIFIED BASED ON SPECIFIED POST SIZE WITH RELATION TO THE ROUGH OPENING/EDGE OF WALL LOCATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL VERIFICATION. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE ARE PLACED PRIOR TO THE FOUNDATION POUR - EPOXIED ANCHOR BOLTS ARE NOT AN EQUAL SUBSTITUTE. FAILURE TO PLACE HOLDOWN ANCHOR BOLTS IN THE CORRECT LOCATION WILL LIKELY RESULT IN CUTTING/REMOVAL OF FOUNDATION ELEMENTS, DOWELING AND REPOUR OF AREAS REMOVED. ADDITIONAL FEES MAY INCUR FOR REDESIGNING OF FOUNDATIONS AND REPLACEMENT HOLDOWNS.

- FOUNDATION SHEET NOTES**
- REF. S0 SERIES FOR GENERAL NOTES AND DESIGN CRITERIA.
 - REF. S2 SERIES FOR FOUNDATION TYPICAL DETAILS.
 - STRUCTURAL DATUM EL = 100'-0" = CIVIL DATUM = 1427.10. ELEVATIONS SHOWN ARE RELATIVE TO STRUCTURAL DATUM.
 - G.C. SHALL COORDINATE BOTTOM OF GRADE BEAMS IN FIELD WITH FINAL GRADING. GRADE BEAM DEPTHS AND STEP LOCATIONS ESTIMATES. G.C. SHALL CONFIRM FINAL DEPTH IN FIELD. GRADE BEAMS SHALL BE 2'-6" MIN. BELOW FINISHED GRADE ELEVATION OR EMBEDDED 6" MINIMUM INTO EXISTING ROCK STRATA (F.V. DEPTH).
 - SLAB ON GROUND: 5" THICK CONC. SLAB ON GROUND REINFORCED WITH #4 BARS AT 16" O.C. EACH WAY PLACED 2" BELOW TOP OF SLAB OVER 6" CRUSHED LIMESTONE BASE LAYER OVER SELECT FILL PAD UNDER 10 MIL. VAPOR RETARDER. REF. GENERAL NOTES FOR BASE AND SUBGRADE REQUIREMENTS.
 - LOCATE CONTROL JOINTS AT A MAXIMUM OF 12'-0" O.C. REF. DETAIL 8/S202 AT CONTROL JOINTS OR CONSTRUCTION JOINTS AT CONTRACTOR'S OPTION.
 - TYP. WALL FRAMING: 2x6 (S. PINE) STUDS AT 12" O.C.
 - DO NOT SCALE WALL LENGTH ON PLAN. REF. ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
 - REF. ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL SLOPED SLABS AND SLAB DEPRESSIONS.
 - REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR ALL CONCRETE SLAB LEAVE OUTS, FLOOR DRAIN, AND SLAB PENETRATION LOCATIONS.
 - VERIFY ALL OPENING DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
 - REFERENCE CIVIL DRAWINGS FOR ALL EXTERIOR SIDEWALKS, RAMPS, AND DOOR STOOPS.
 - ALL FOOTINGS SHOULD BE CENTERED ON COLUMNS, HOLD DOWNS OR CONCRETE WALL INTERSECTIONS.

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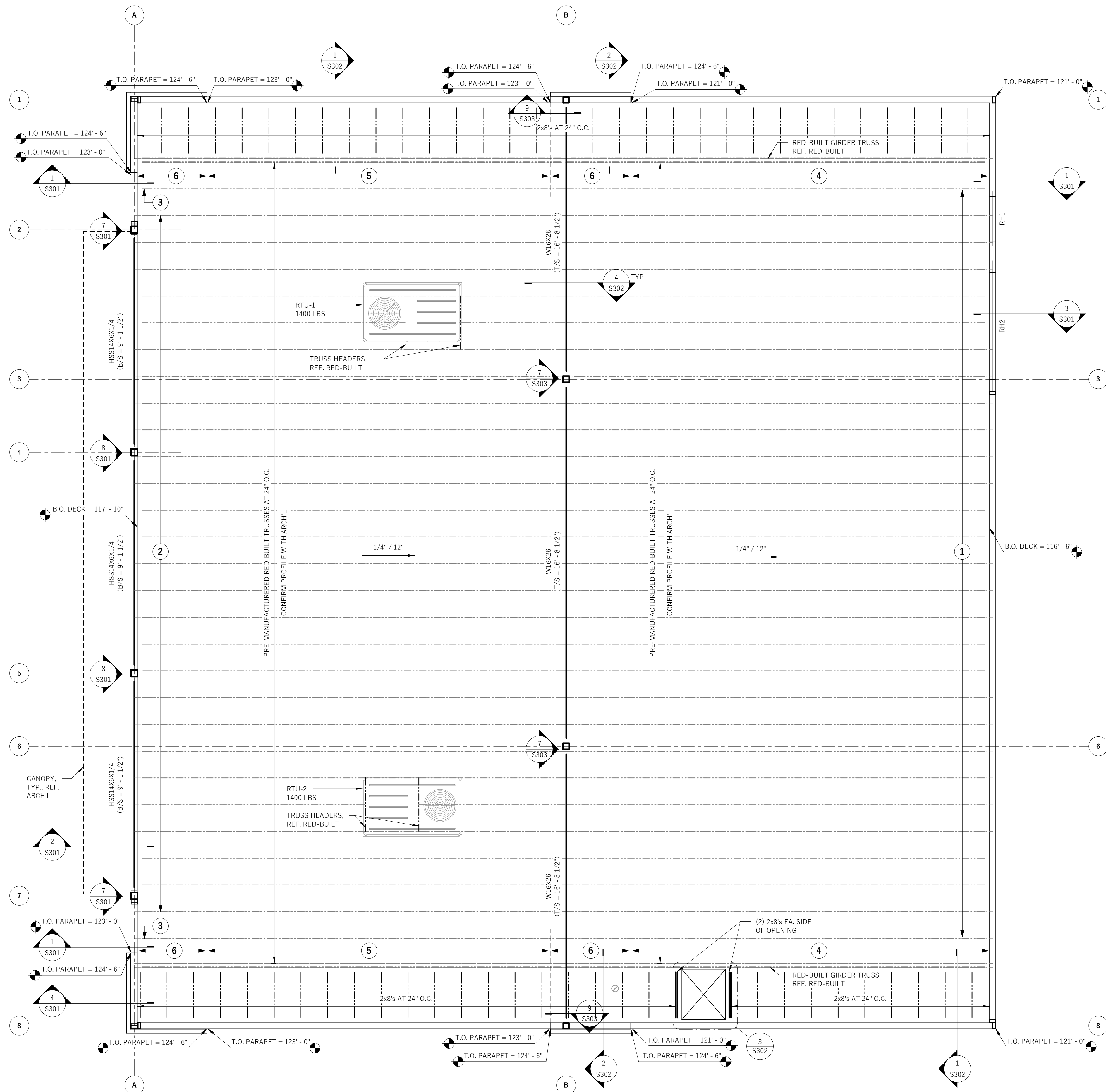
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FOUNDATION PLAN

SHEET NUMBER:
S101

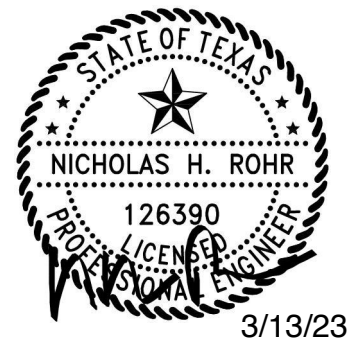


1 ROOF FRAMING PLAN
1/4" = 1'-0"

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STOREFRONT DEFLECTION SCHEDULE

WINDOW MANUFACTURER SHALL PROVIDE A SYSTEM THAT IS ABLE TO ACCEPT THE DEFLECTIONS INDICATED BELOW:

HEADER SIZE	HEADER VERTICAL	HEADER HORIZONTAL	JAMB HORIZONTAL
HSS14x6x1/4	0.362"	0.591"	0.364"

HEADER SCHEDULE

MARK	HEADER	JAMB	KING
RH1	(3) 2x6	(1) 2x6	(2) 2x6
RH2	(3) 1 3/4" X 9 1/4" LVL	(2) 2x6	(4) 2x6

ROOF FRAMING PLAN KEY NOTES

#	KEY NOTE
1	TRUSS DESIGNER TO DESIGN FOR (+/-) 300 LBS SHEAR AND (+/-) 600 LBS AXIAL DUE TO WIND AT KICKER REACTION
2	TRUSS DESIGNER TO DESIGN FOR (+/-) 750 LBS SHEAR AND (+/-) 450 LBS AXIAL DUE TO WIND AT KICKER REACTION
3	TRUSS DESIGNER TO DESIGN FOR (+/-) 1250 LBS SHEAR AND (+/-) 175 LBS AXIAL DUE TO WIND AT KICKER REACTION
4	TRUSS DESIGNER TO DESIGN FOR (+/-) 150 PLF SHEAR DUE TO WIND AT KICKER REACTION
5	TRUSS DESIGNER TO DESIGN FOR (+/-) 375 PLF SHEAR DUE TO WIND AT KICKER REACTION
6	TRUSS DESIGNER TO DESIGN FOR (+/-) 625 PLF SHEAR DUE TO WIND AT KICKER REACTION

ROOF FRAMING NOTES

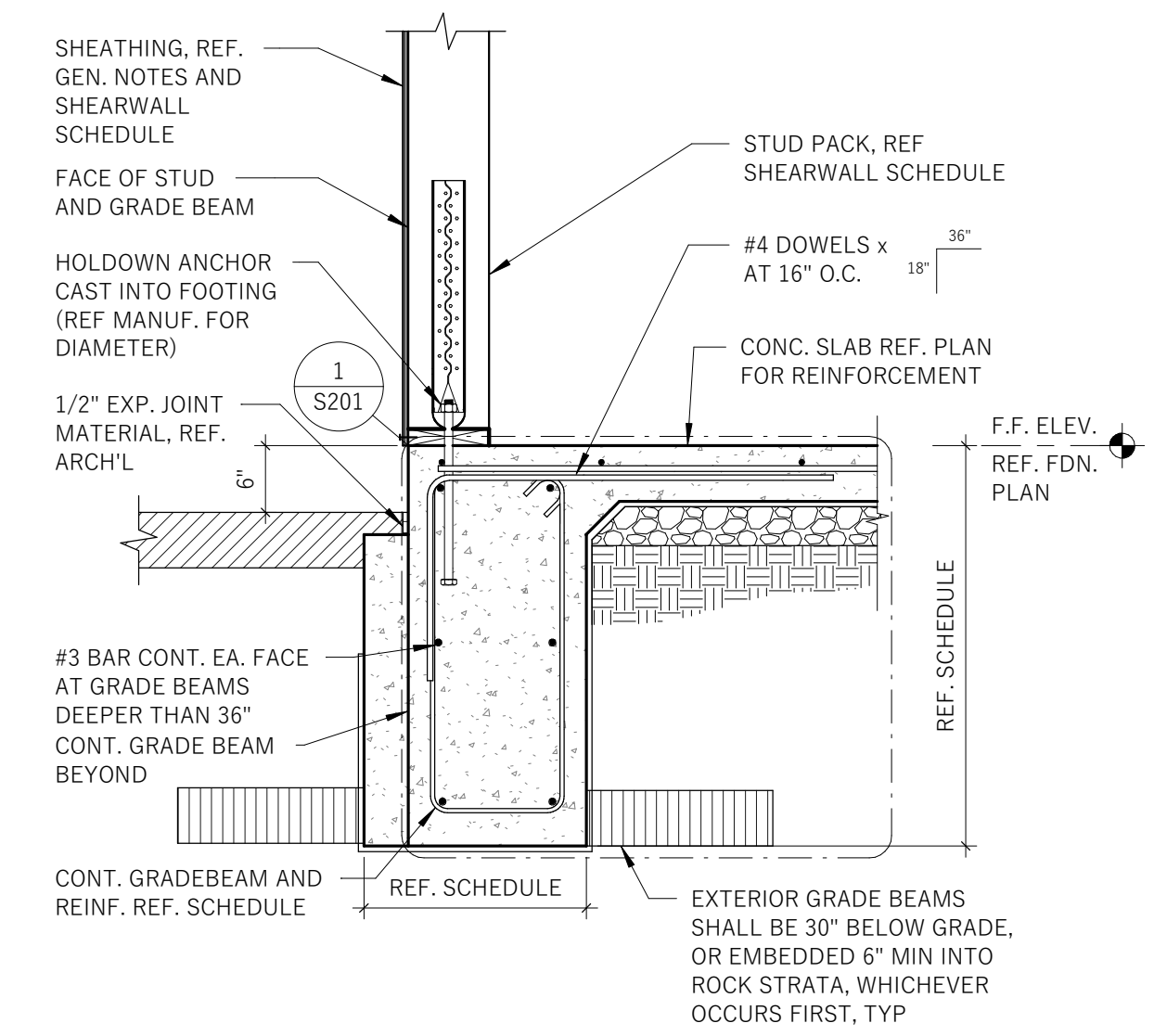
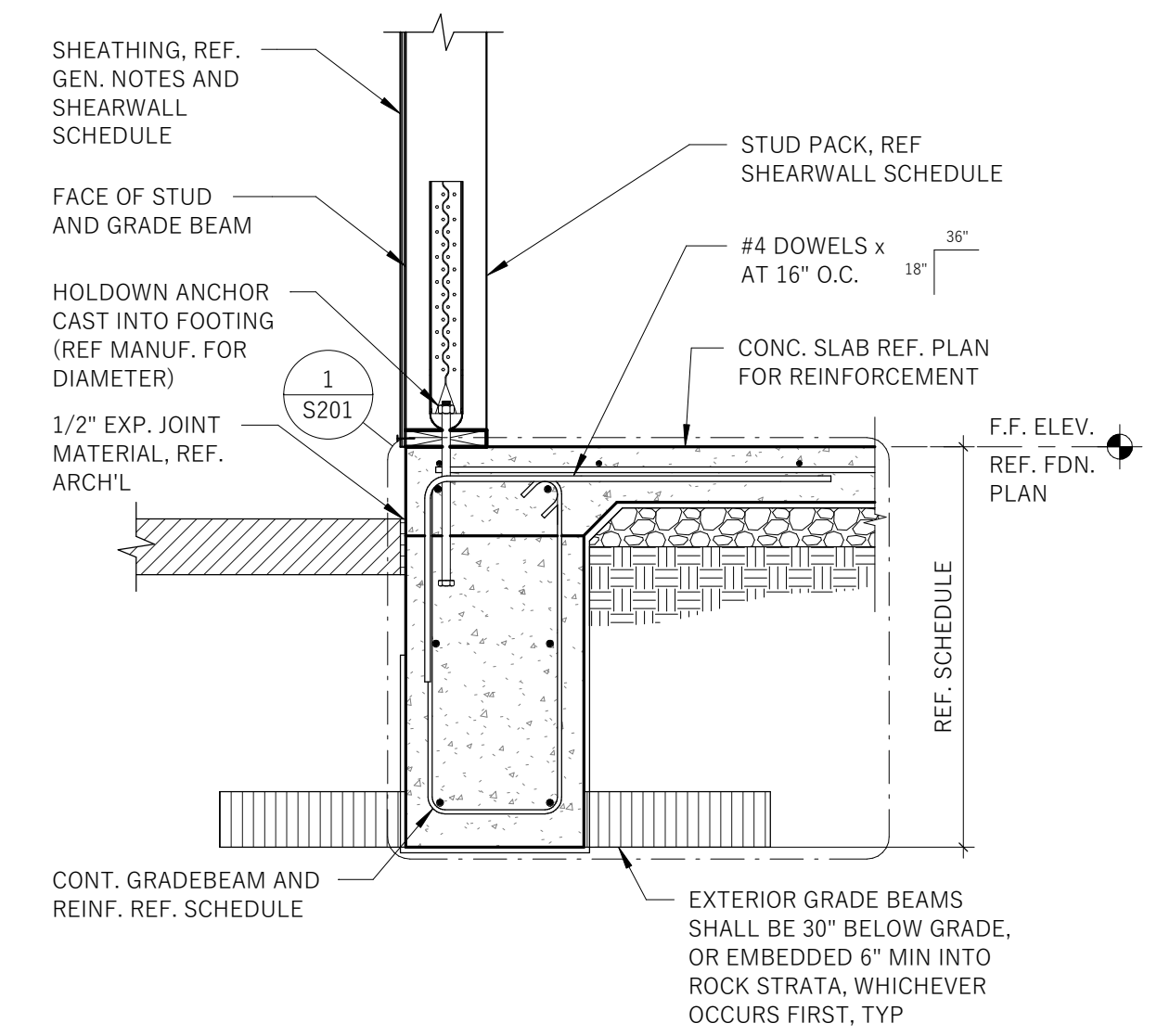
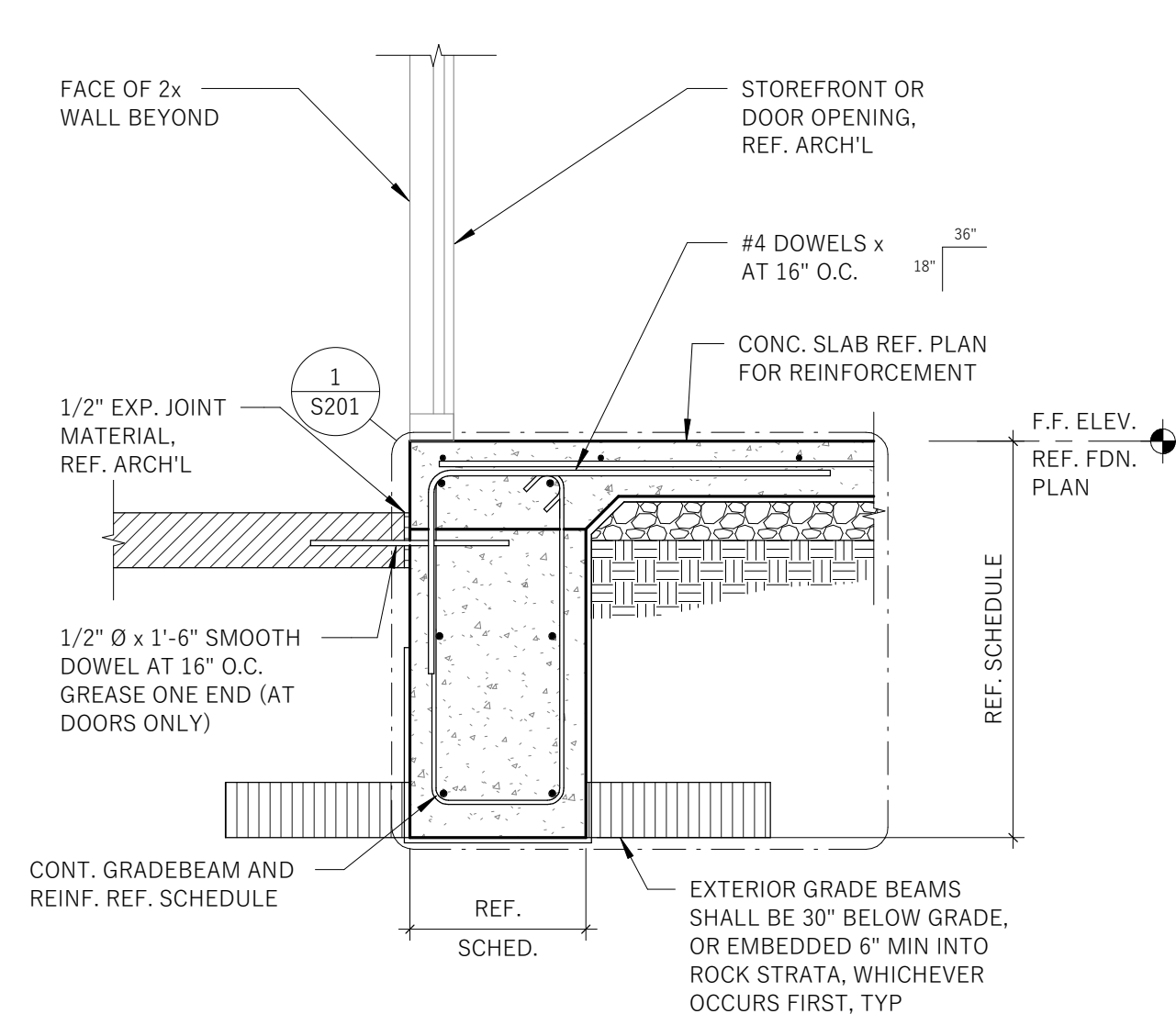
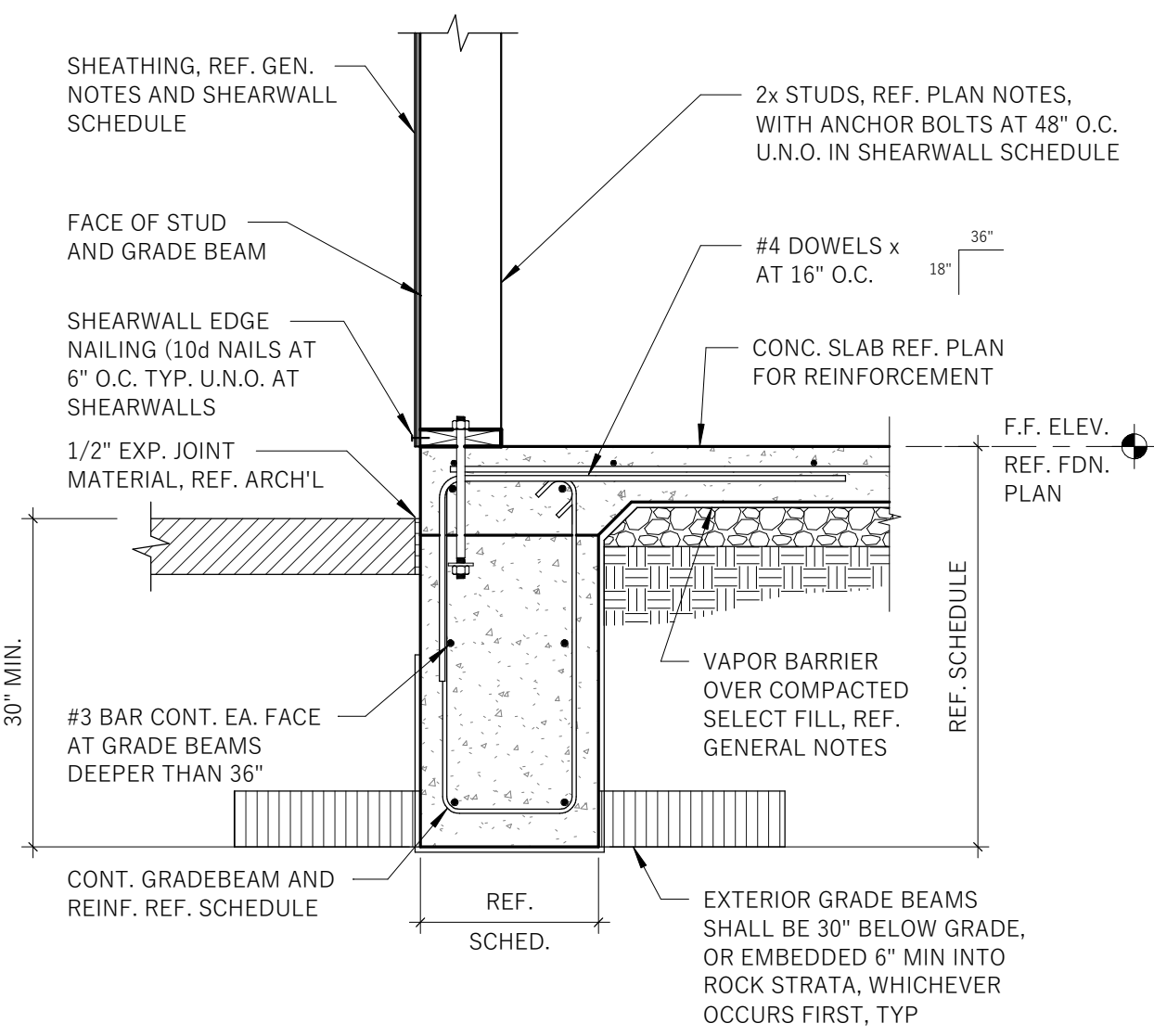
1	DESIGN LIVE LOAD: SEE GENERAL NOTES
2	VERIFY ALL OPENING DIMENSIONS AND LOCATIONS WITH ARCH'L DRAWINGS.
3	TYP. ROOF CONSTRUCTION: 19/32" PLYWOOD DECK OVER RED-S TRUSSES WITH SINGLE SLOPED TOP CHORD (DESIGNED BY MANUF.) AT 2'-0" O.C. MAX.
4	TRUSS MANUF. TO VERIFY ALL MECHANICAL UNITS AND OPENINGS WITH MECHANICAL ENGINEER AND MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION.
5	TRUSS BEARING ELEVATION = 114' - 0"
6	TRUSS MANUF. TO DESIGN ALL UPLIFT BRIDGING AND CONNECTIONS FOR WIND LOADS SHOWN ON WIND PRESSURE DIAGRAM ON S002
7	REDBUILT REP - ANDREW SPRAY - CONTACT INFORMATION: (740) 404 - 2563

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SHEET TITLE:
ROOF FRAMING PLAN

SHEET NUMBER:
S102

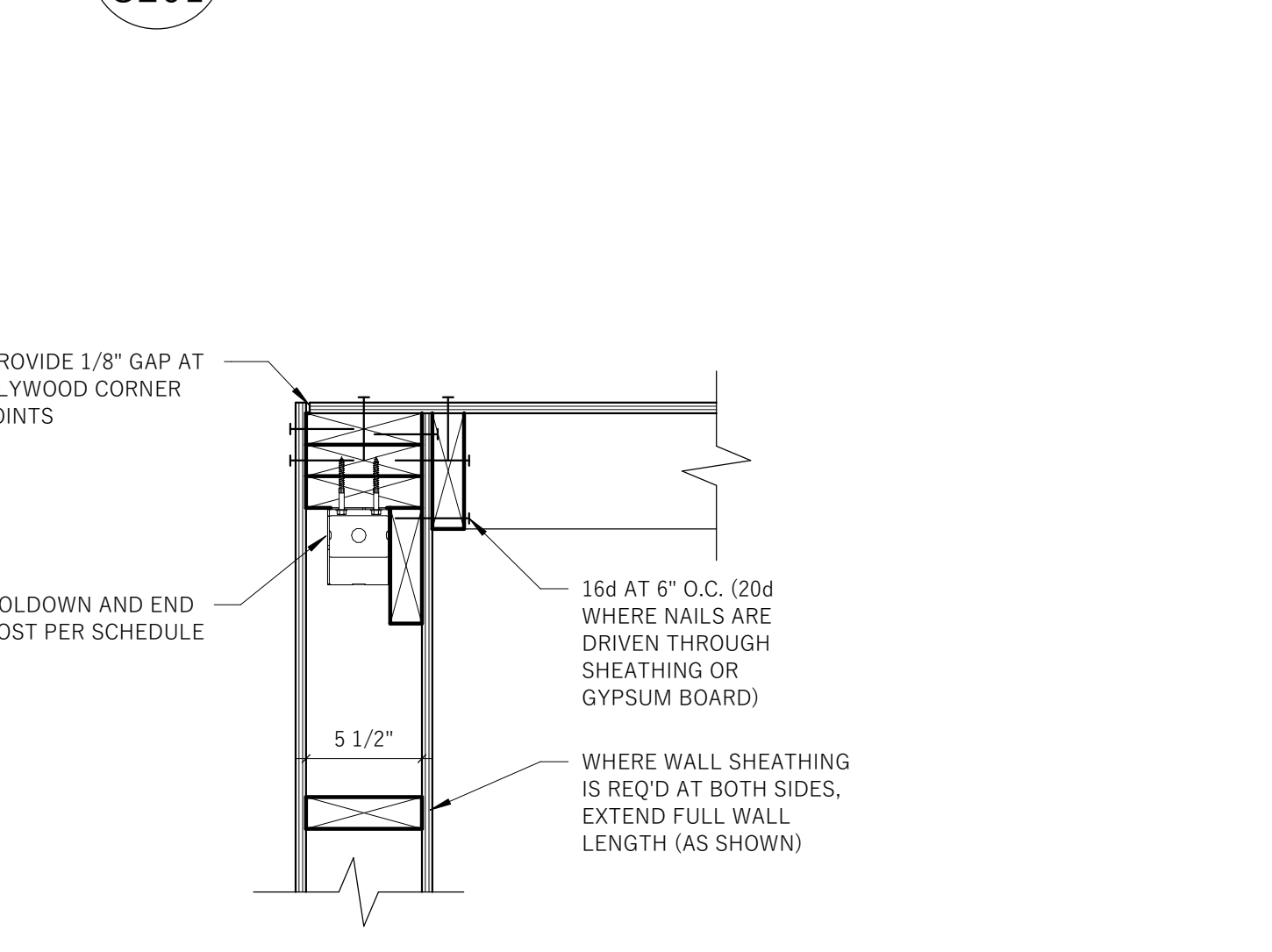
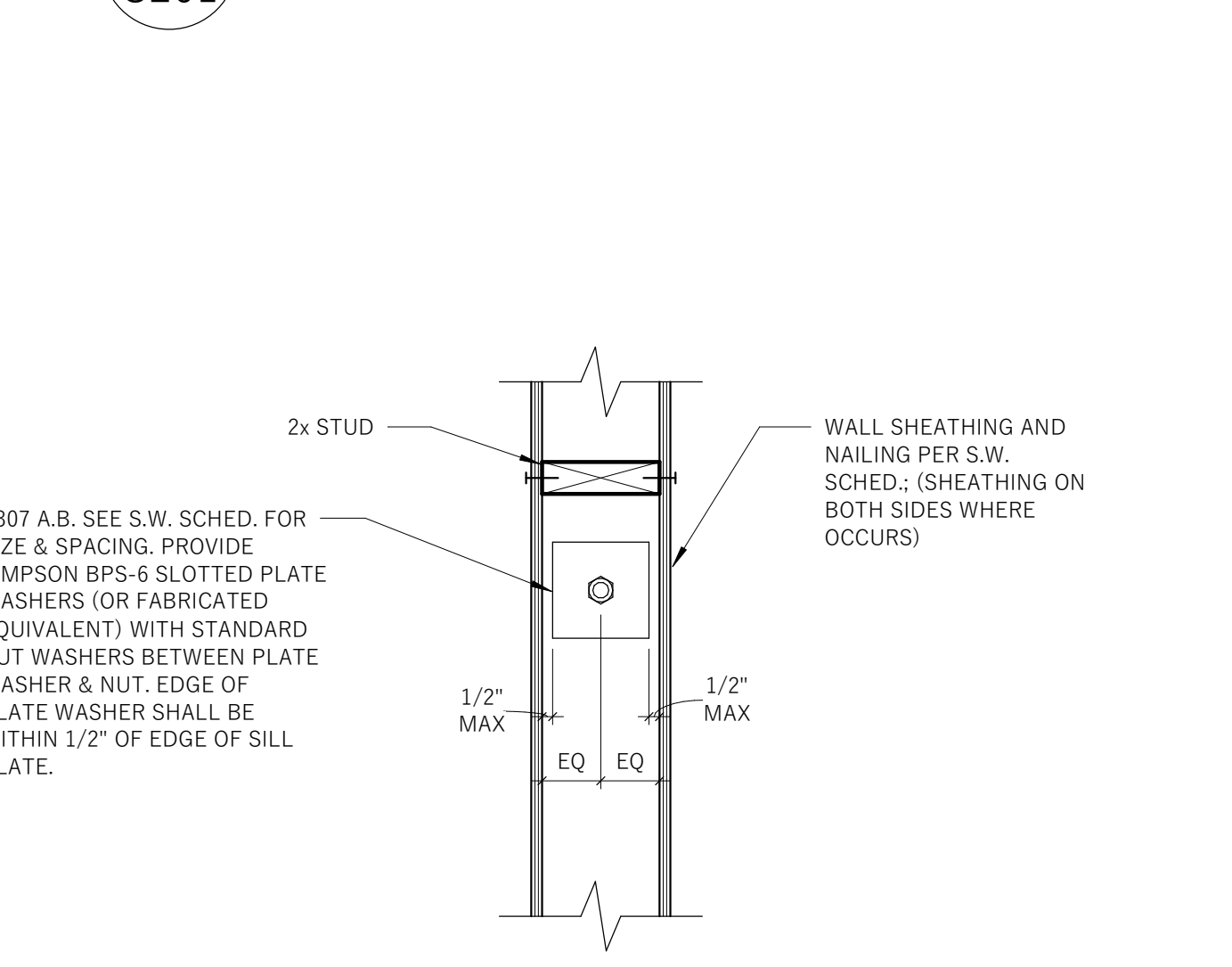
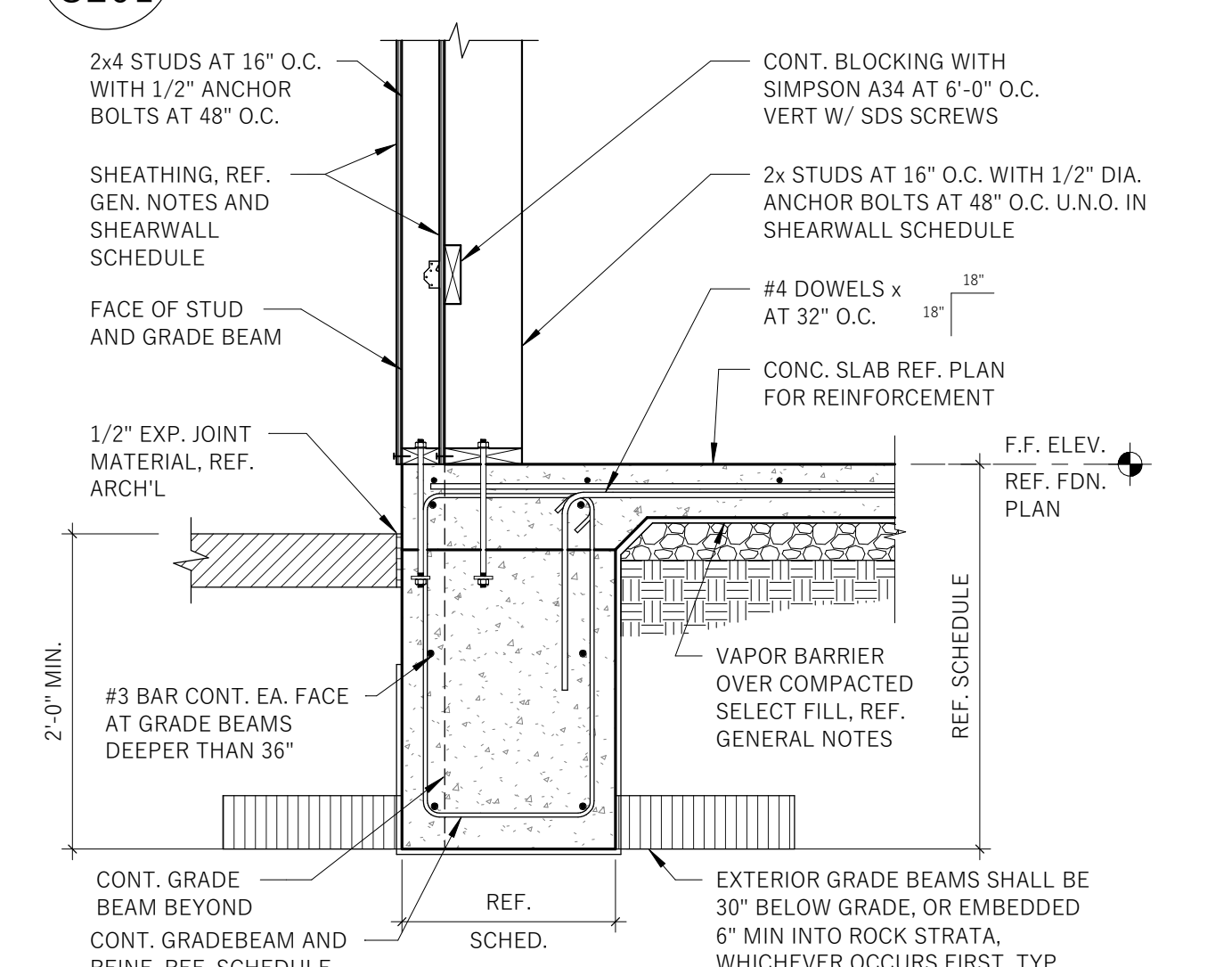
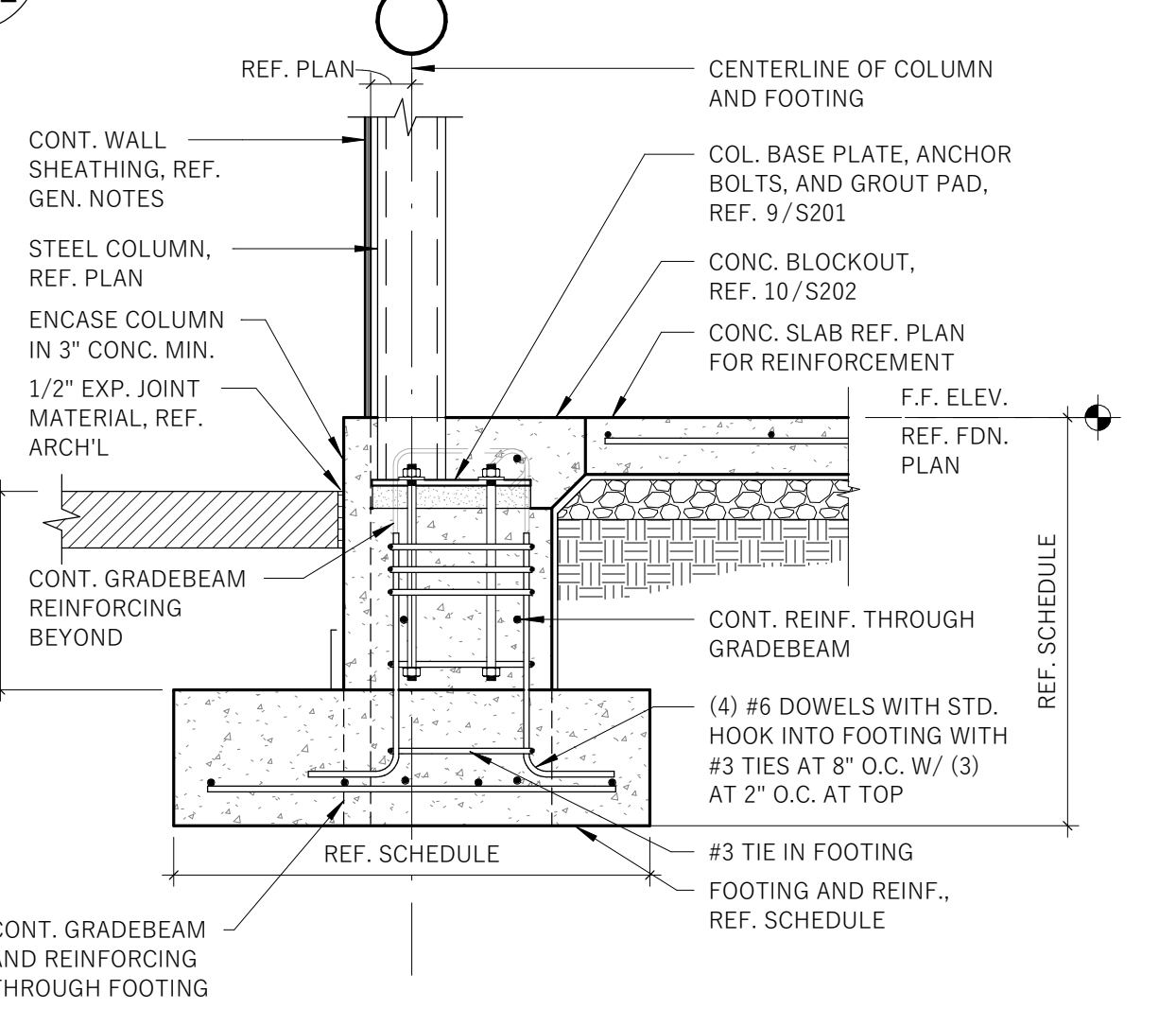


1 EXTERIOR GRADE BEAM
S201 3/4" = 1'-0"

2 EXT. BEAM AT OPENING
S201 3/4" = 1'-0"

3 GRADE BEAM AT HOLDDOWN
S201 3/4" = 1'-0"

4 WIDENED BEAM AT HOLDDOWN
S201 3/4" = 1'-0"

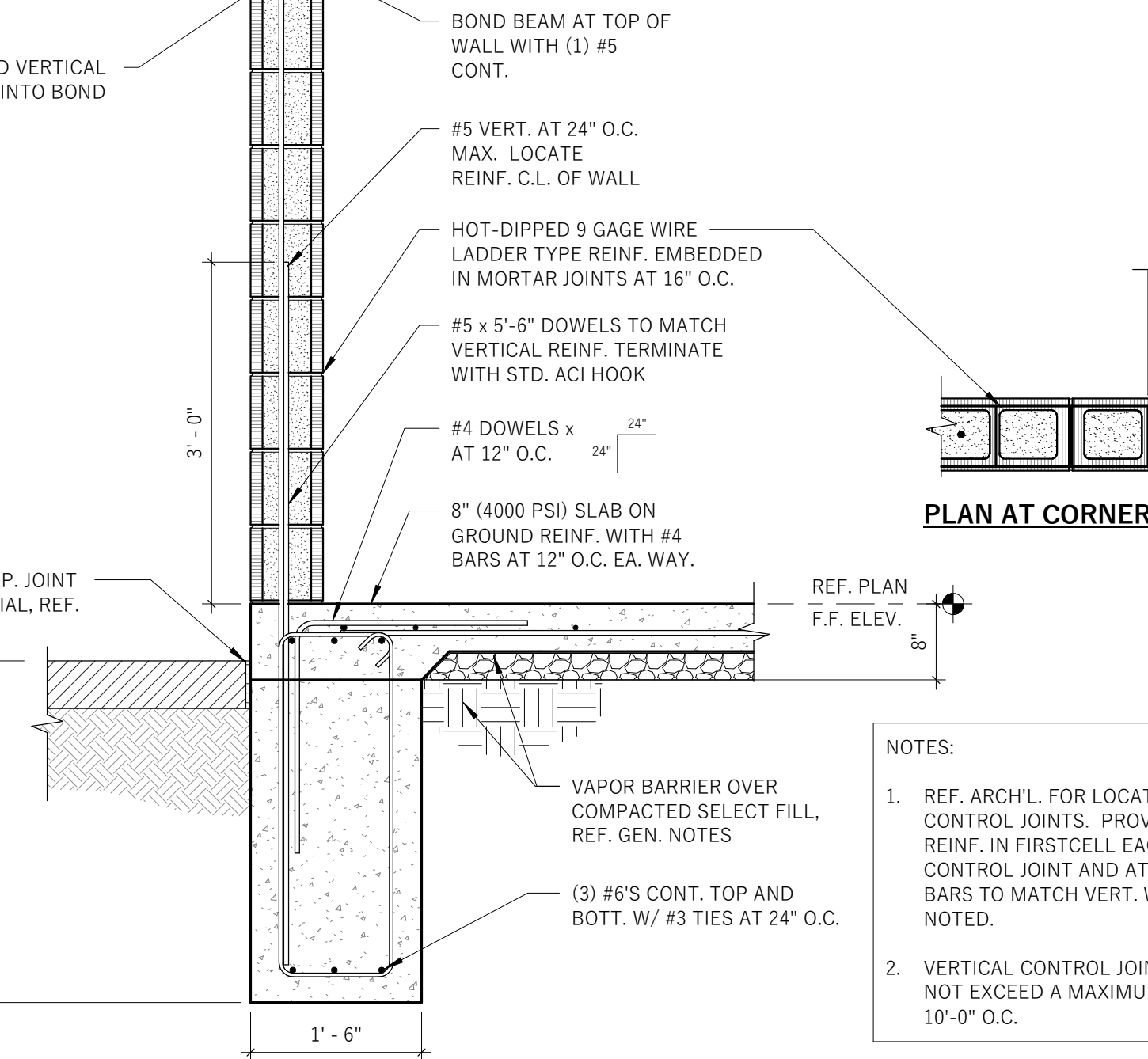
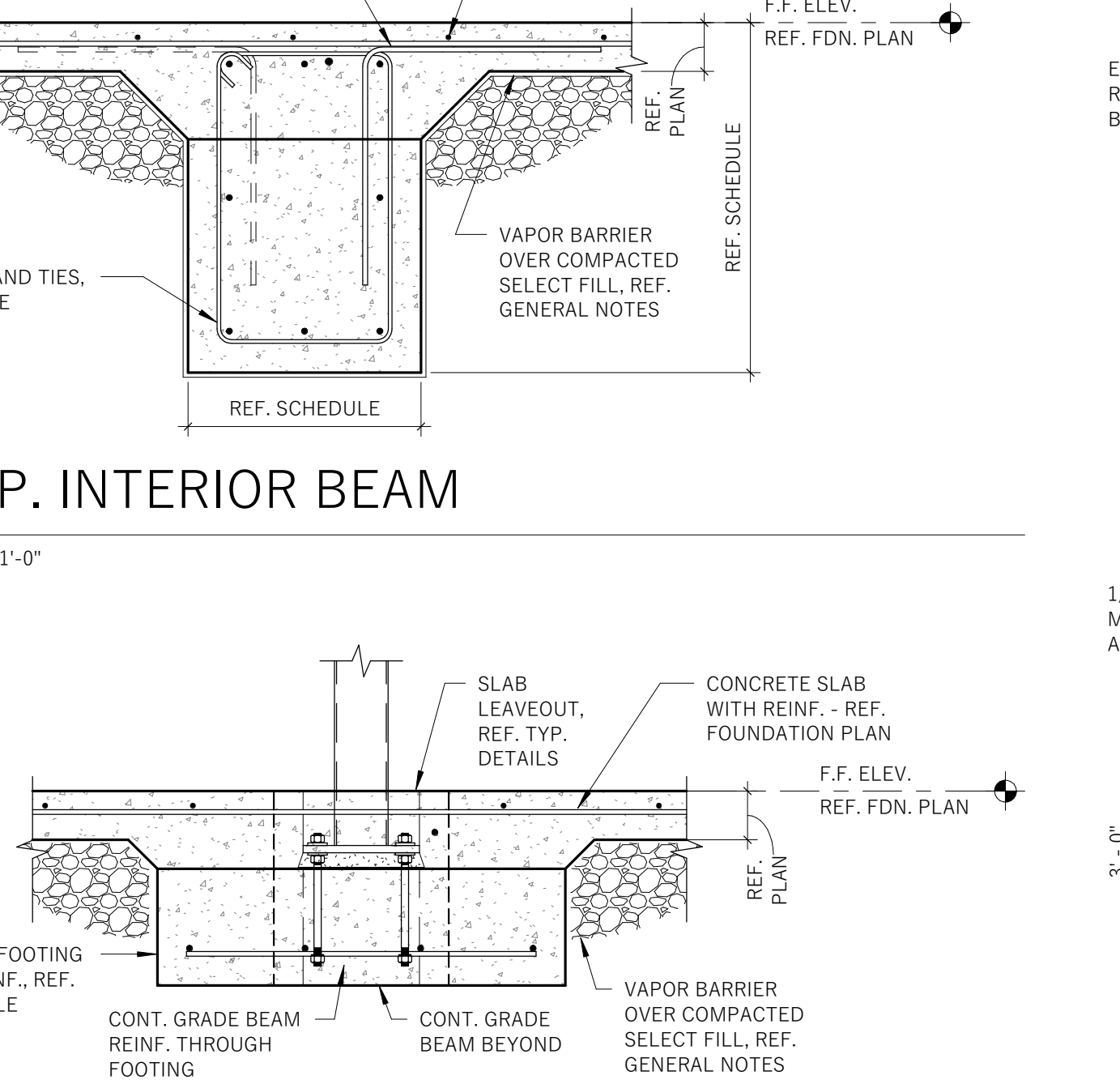
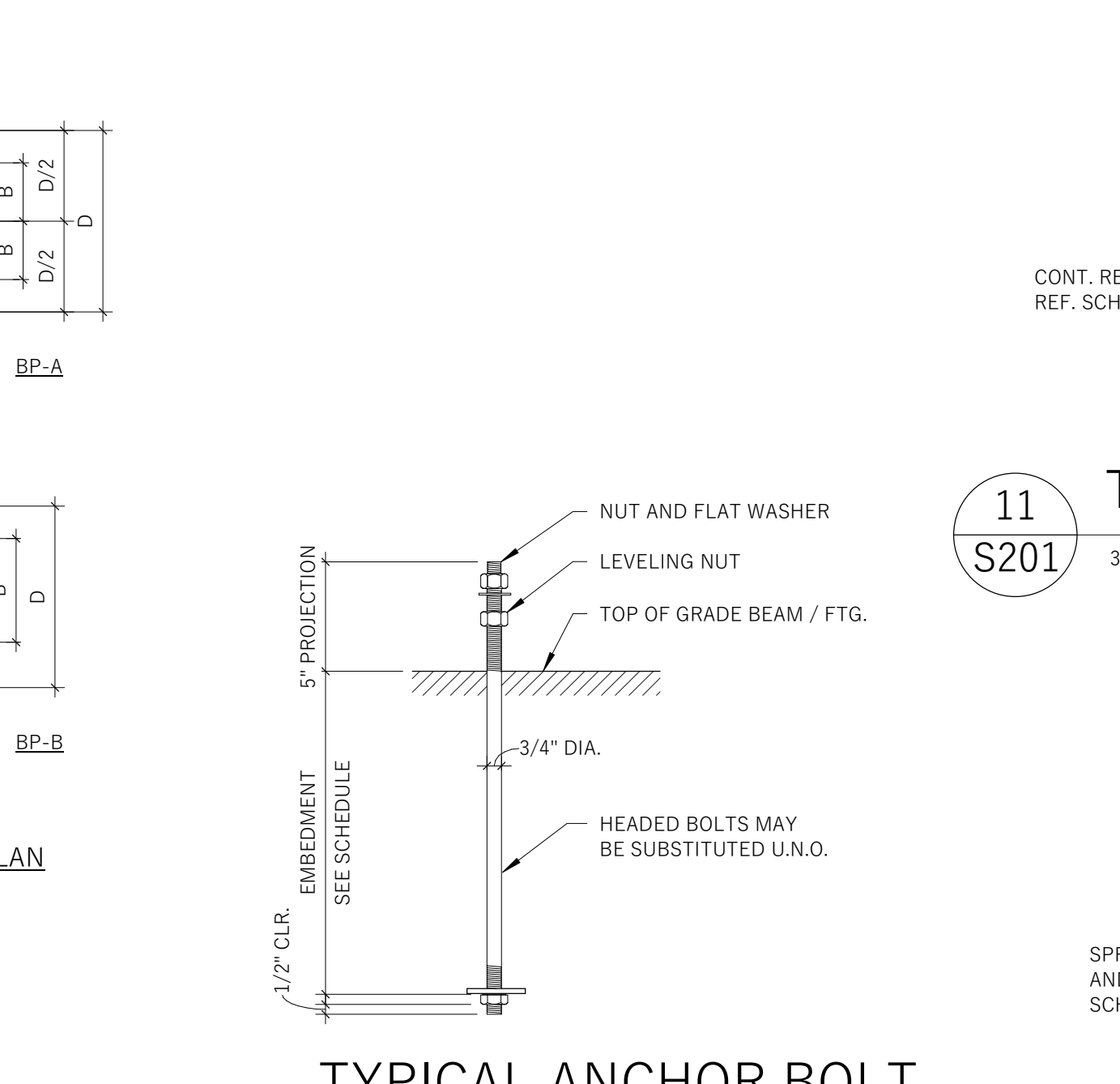
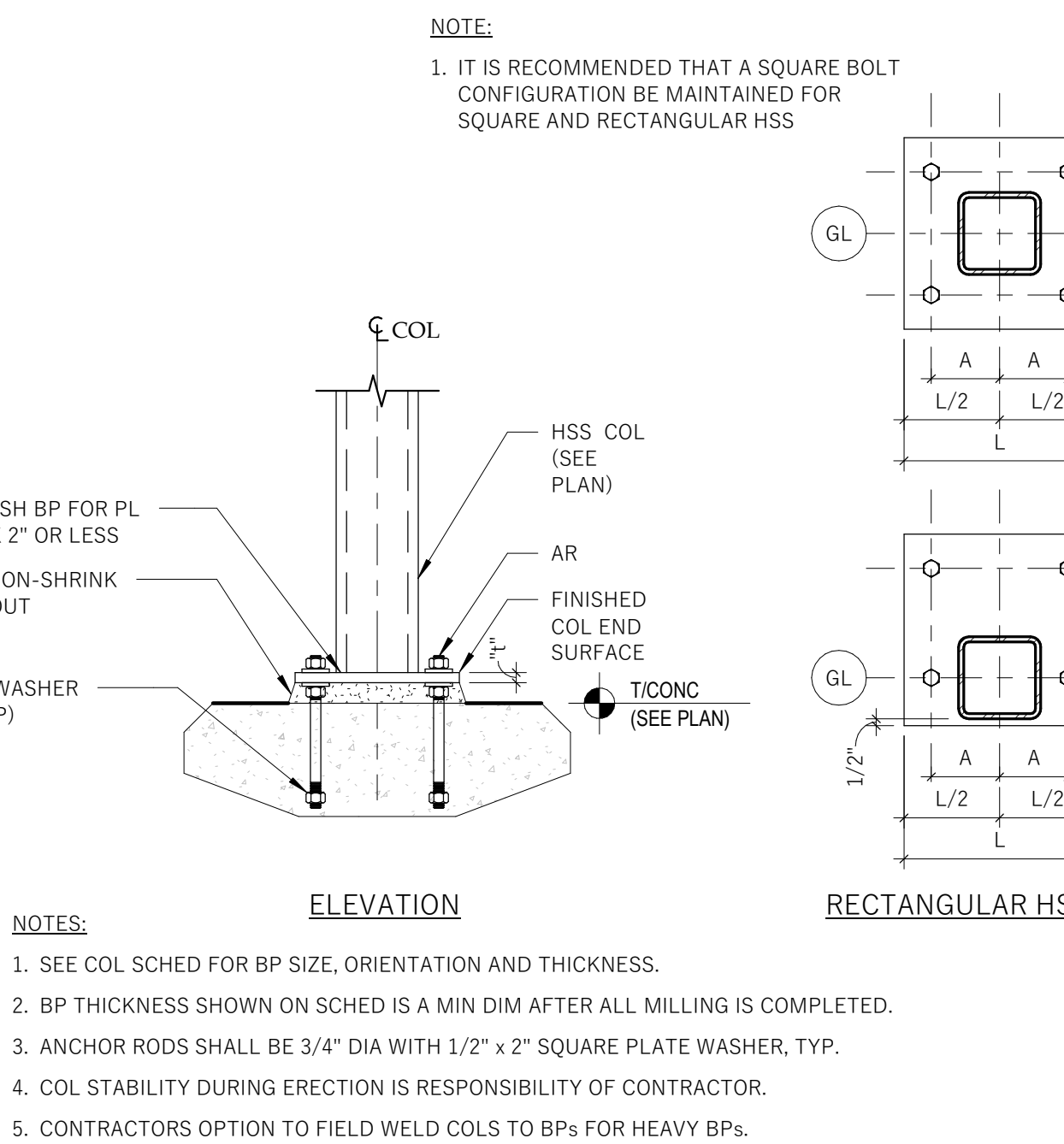


5 GRADE BEAM AT COLUMN
S201 3/4" = 1'-0"

6 GRADE BEAM AT BUMPOUT
S201 3/4" = 1'-0"

7 SHEARWALL SILL PLAGE ANCHORAGE
S201 1 1/2" = 1'-0"

8 HOLDDOWN AT CORNER
S201 1 1/2" = 1'-0"



9 TYP. BASE PLATE DETAIL
S201 1" = 1'-0"

10 TYPICAL ANCHOR BOLT DIAGRAM
S201 1 1/2" = 1'-0"

11 SECTION AT INTERIOR COLUMN
S201 3/4" = 1'-0"

12 SCREENWALL AT ENCLOSURE
S201 3/4" = 1'-0"

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126390
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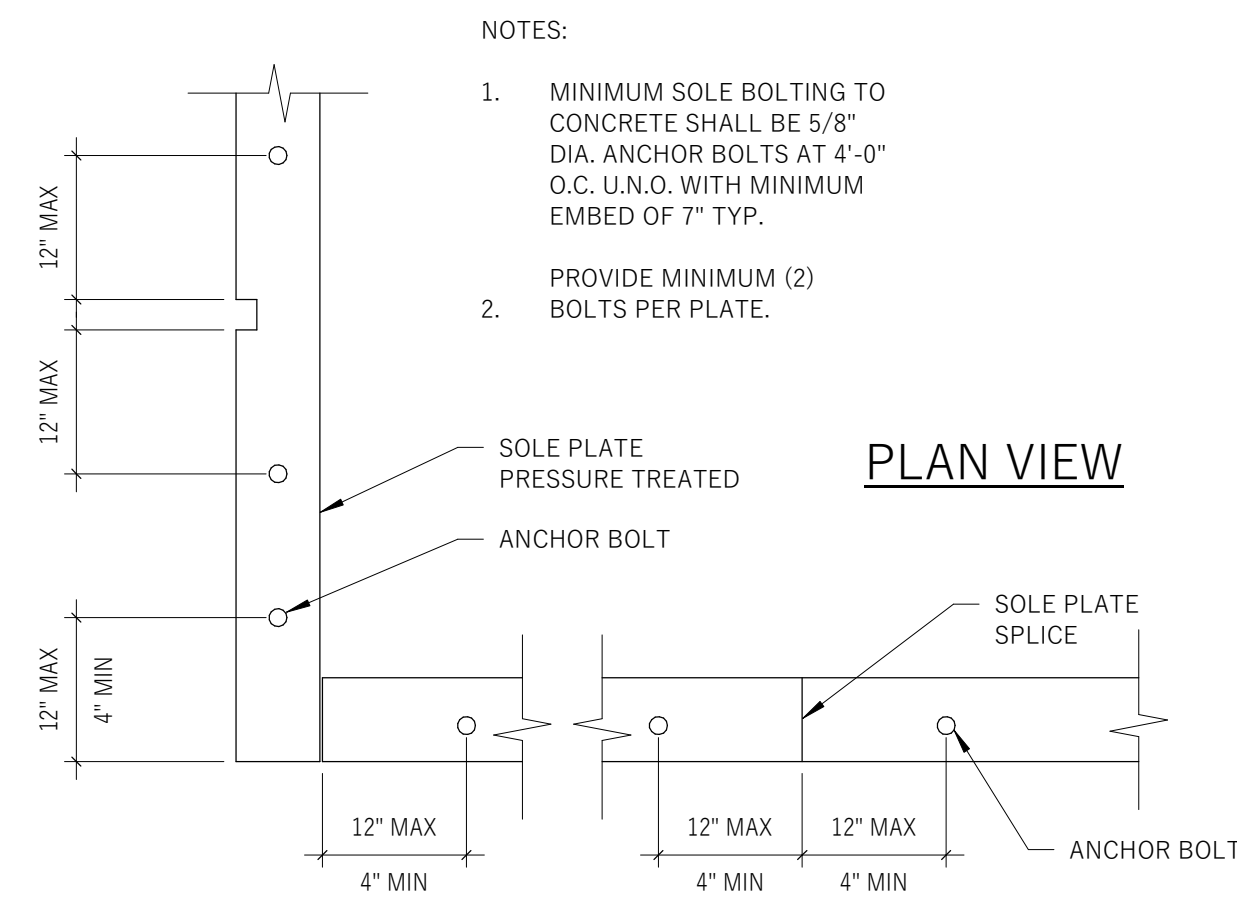
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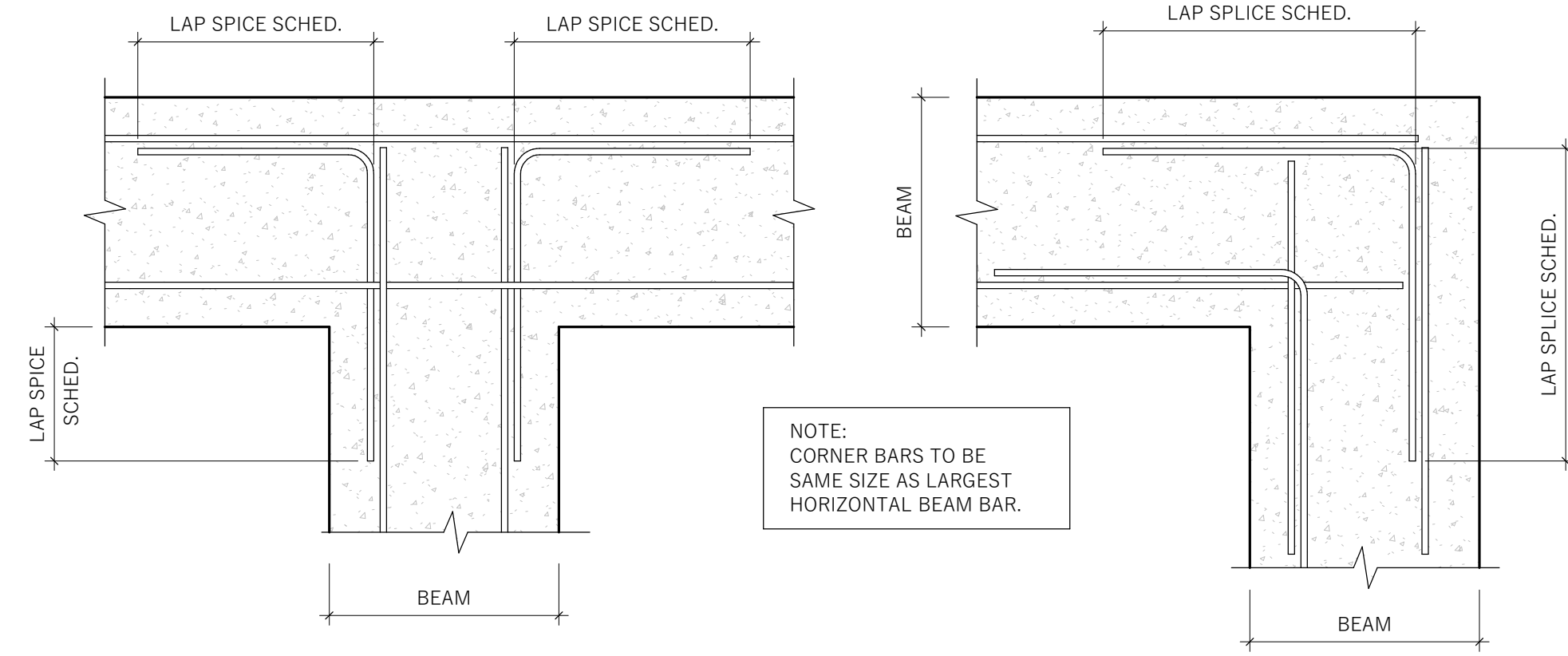
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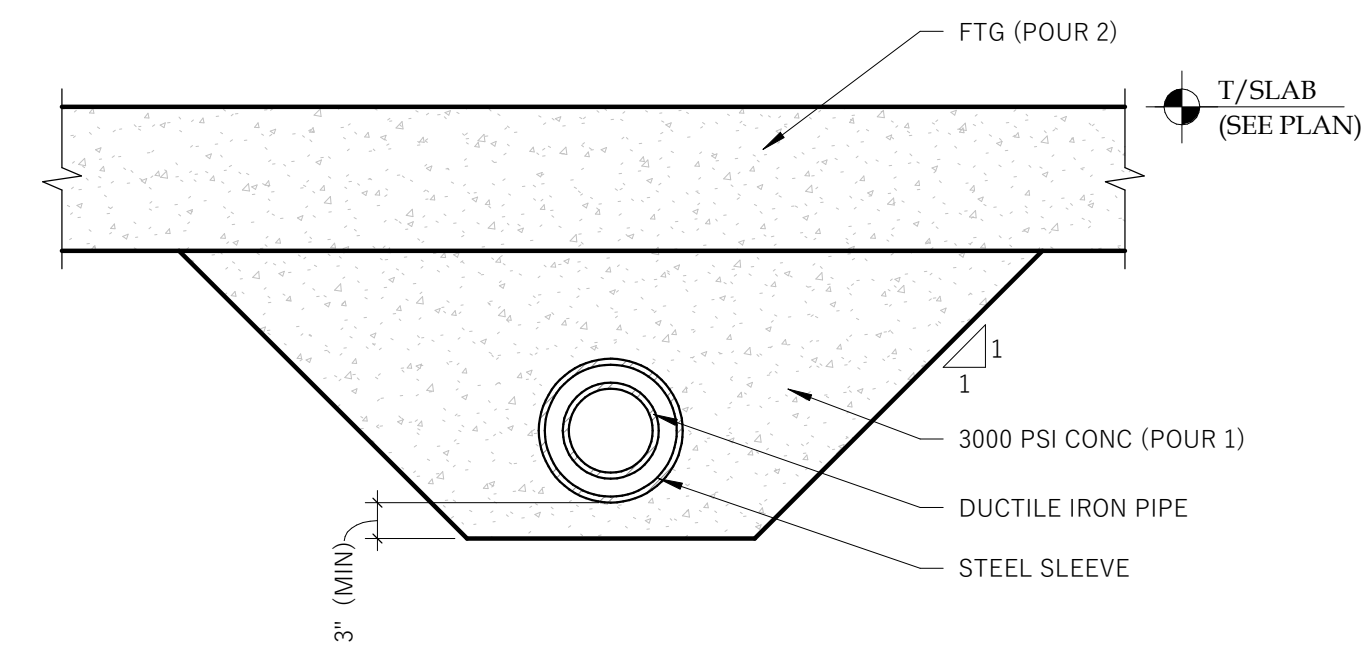
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S201



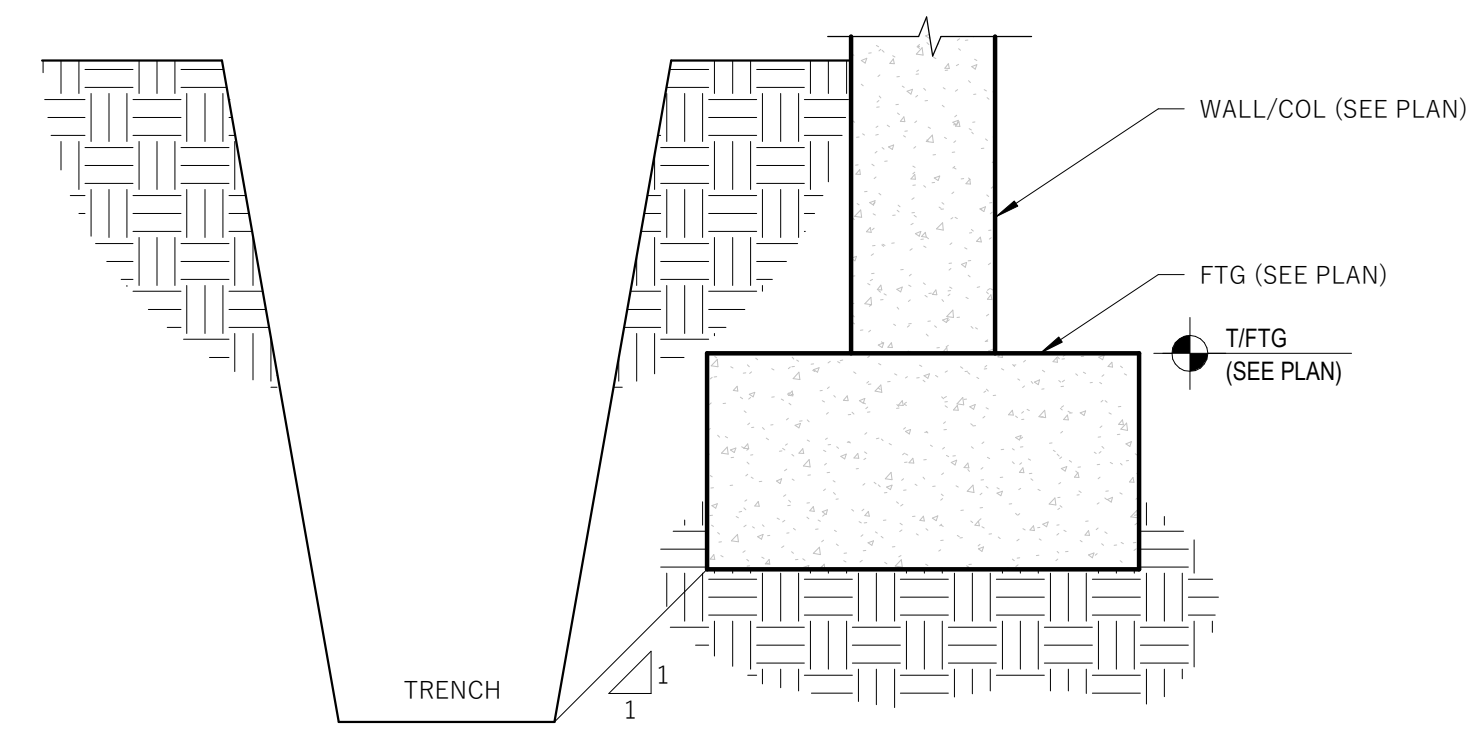
1 TYP. SILL PLATE BOLTING
S202 1" = 1'-0"



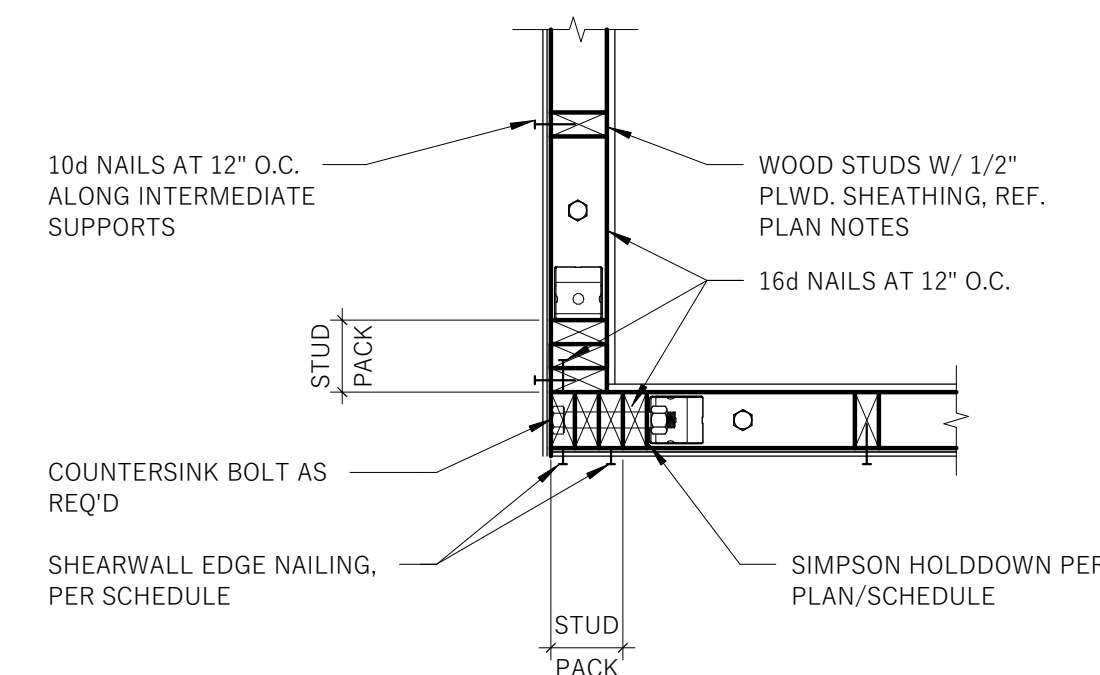
2 TYPICAL CORNER BAR DETAIL
S202 1" = 1'-0"



3 TYP. PIPE UNDER FOOTING
S202 3/4" = 1'-0"



4 EXCAVATION AT UTILITIES TRENCH ADJACENT TO FOOTING
S202 3/4" = 1'-0"

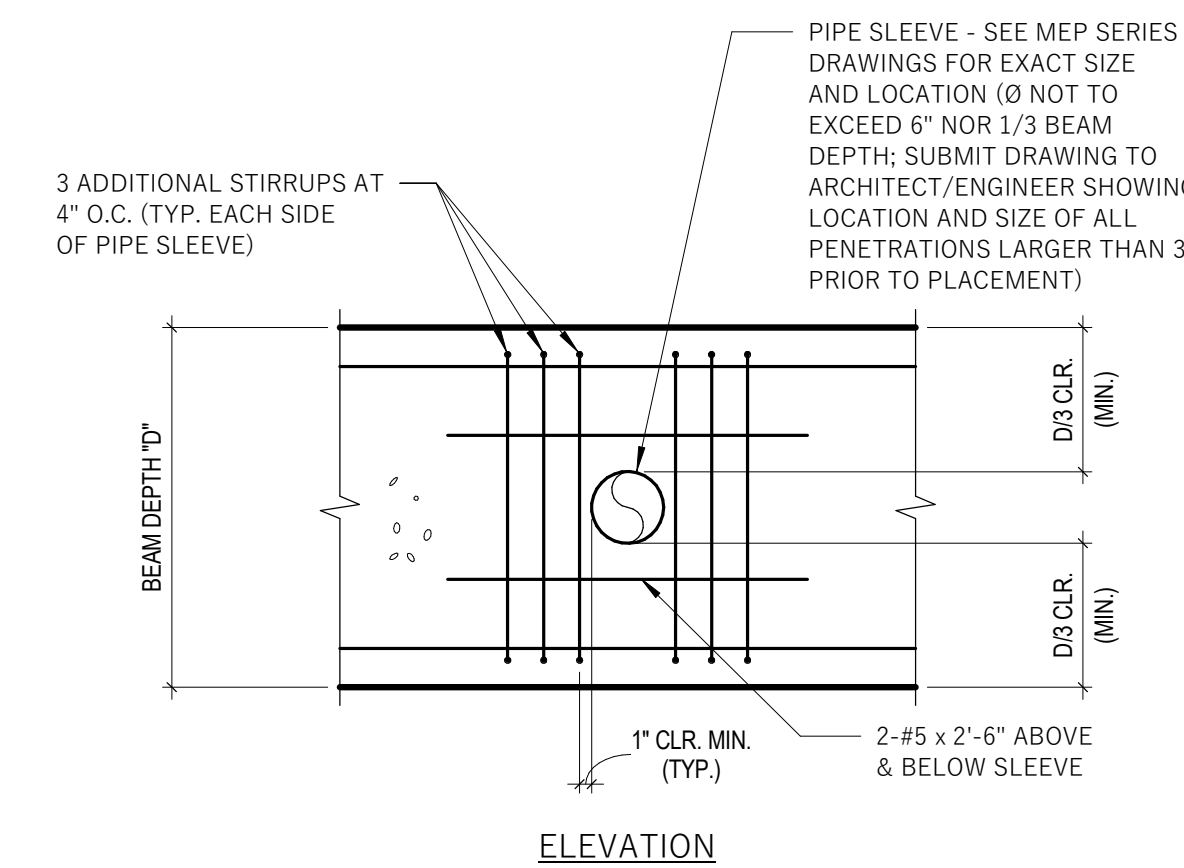


5 PLAN AT HOLDOWN
S202 1" = 1'-0"

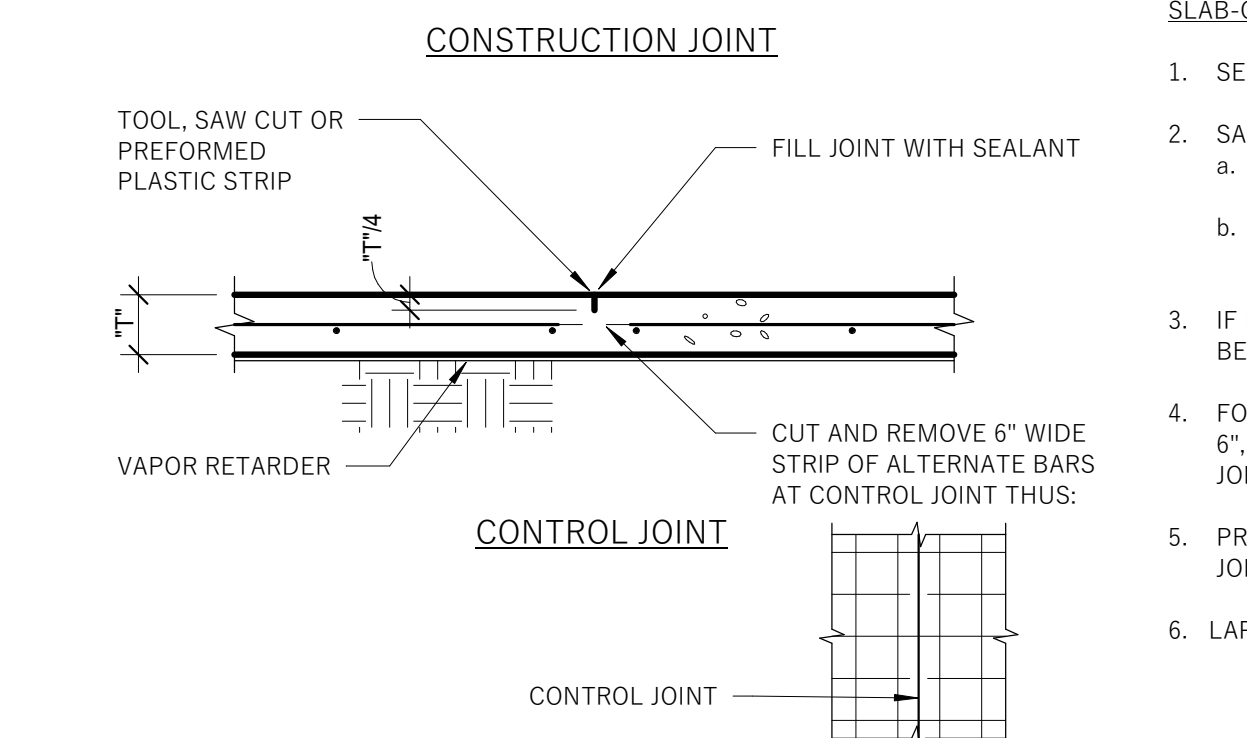
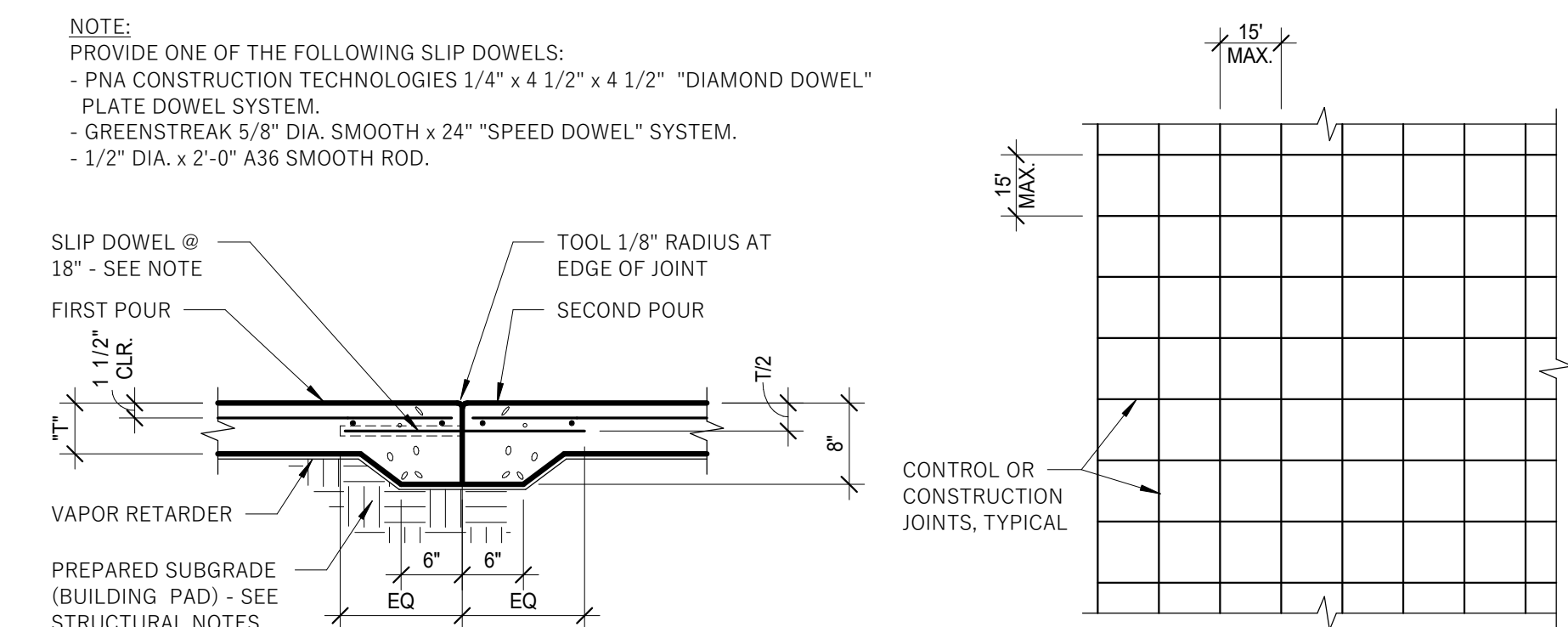
STEEL REINF. LAP SCHEDULE

BAR SIZE	CONCRETE LAP SPLICE (INCHES)					
	f'c = 3,000psi		f'c = 3,500psi		f'c = 4,000psi	
	TOP	OTHER	TOP	OTHER	TOP	OTHER
3	22	17	20	16	20	15
4	29	22	27	21	25	19
5	36	28	33	26	32	24
6	43	33	40	31	38	29
7	63	48	58	45	55	42
8	72	55	66	51	63	48

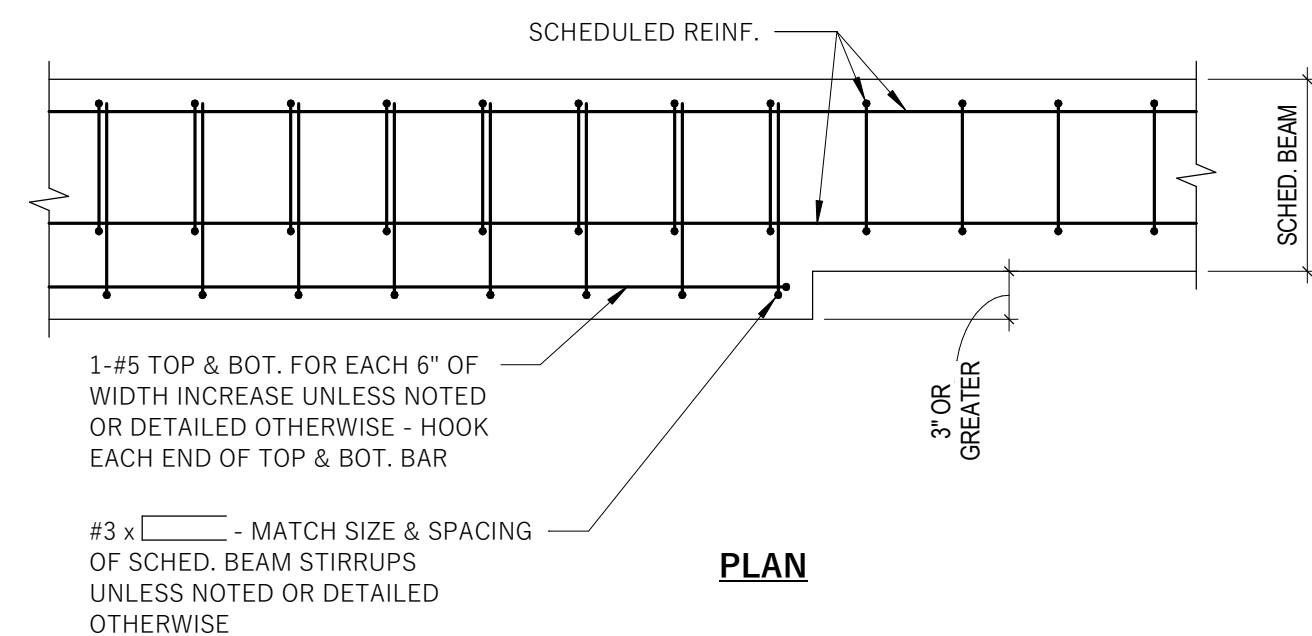
6 STEEL REINF. LAP SCHEDULE
S202 3/4" = 1'-0"



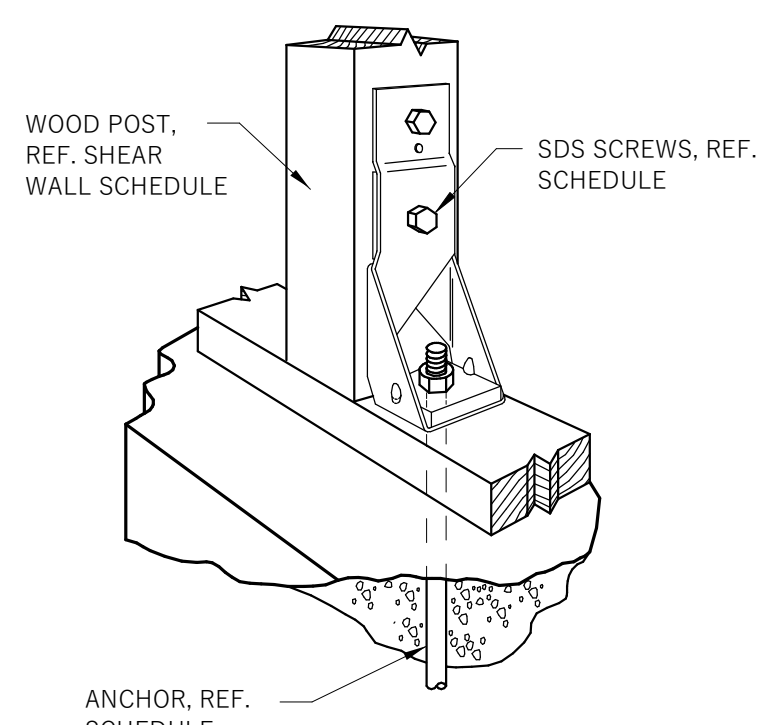
7 PENETRATION THROUGH GRADE BEAM
S202 3/4" = 1'-0"



8 TYPICAL SLAB-ON-GRADE DETAIL
S202 3/4" = 1'-0"



13 BEAM WITH VARYING WIDTH REINFORCING
S202 3/4" = 1'-0"

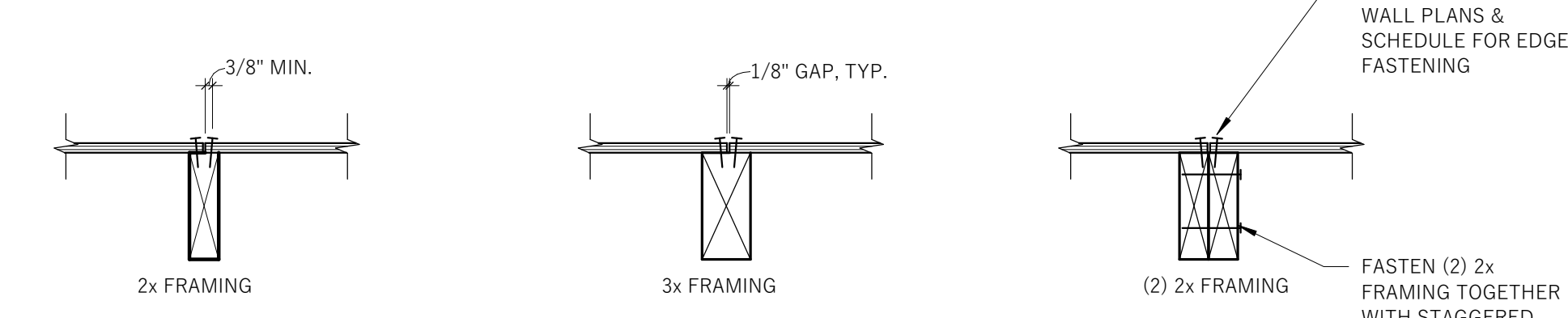


9 SIMPSON "HD" SHEAR WALL HOLDOWN
S202 1" = 1'-0"

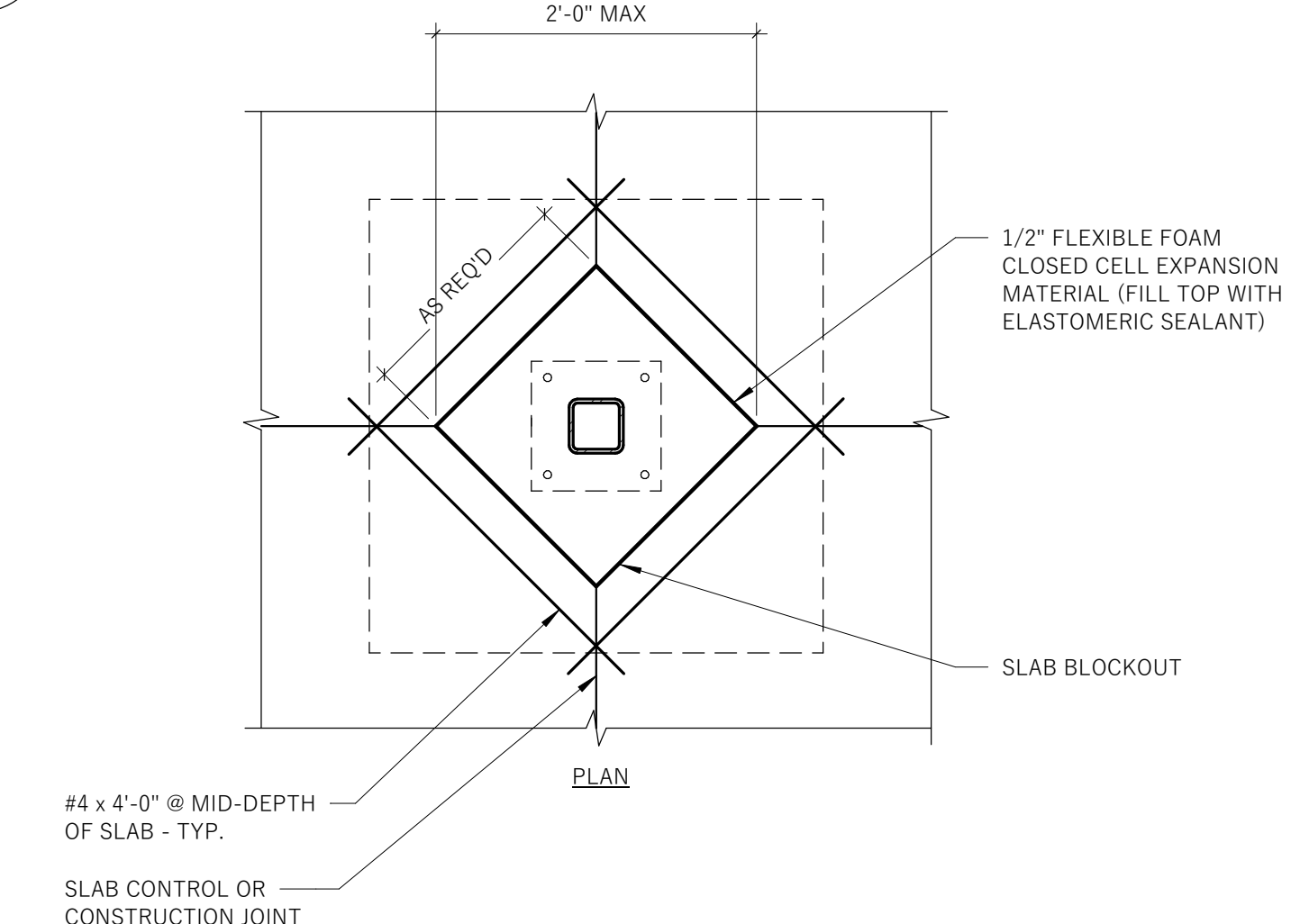
SCHEDULE

HOLDOWN	FASTENERS		ANCHOR DIA.	EMBED	
	QUANTITY	TYPE			
HDU2-SDS2.5	6	SDS SCREWS	1/4" x 2 1/2"	5/8"	N/A
HDU4-SDS2.5	10	SDS SCREWS	1/4" x 2 1/2"	5/8"	14"
HDU5-SDS2.5	14	SDS SCREWS	1/4" x 2 1/2"	5/8"	N/A
HDU8-SDS2.5	20	SDS SCREWS	1/4" x 2 1/2"	7/8"	N/A
HDU11-SDS2.5	30	SDS SCREWS	1/4" x 2 1/2"	1"	20"
HDU14-SDS2.5	36	SDS SCREWS	1/4" x 2 1/2"	1"	20"

NOTES:
1. REF. MFR. FOR ITEMS SHOWN BUT NOT NOTED.
2. INSTALL PER MFR. RECOMMENDATIONS.



11 PLAN AT AJOINING PANEL EDGES
S202 1 1/2" = 1'-0"

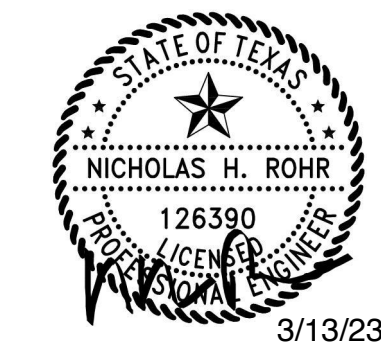


10 TYPICAL INTERIOR COLUMN BLOCKOUT DETAIL
S202 3/4" = 1'-0"

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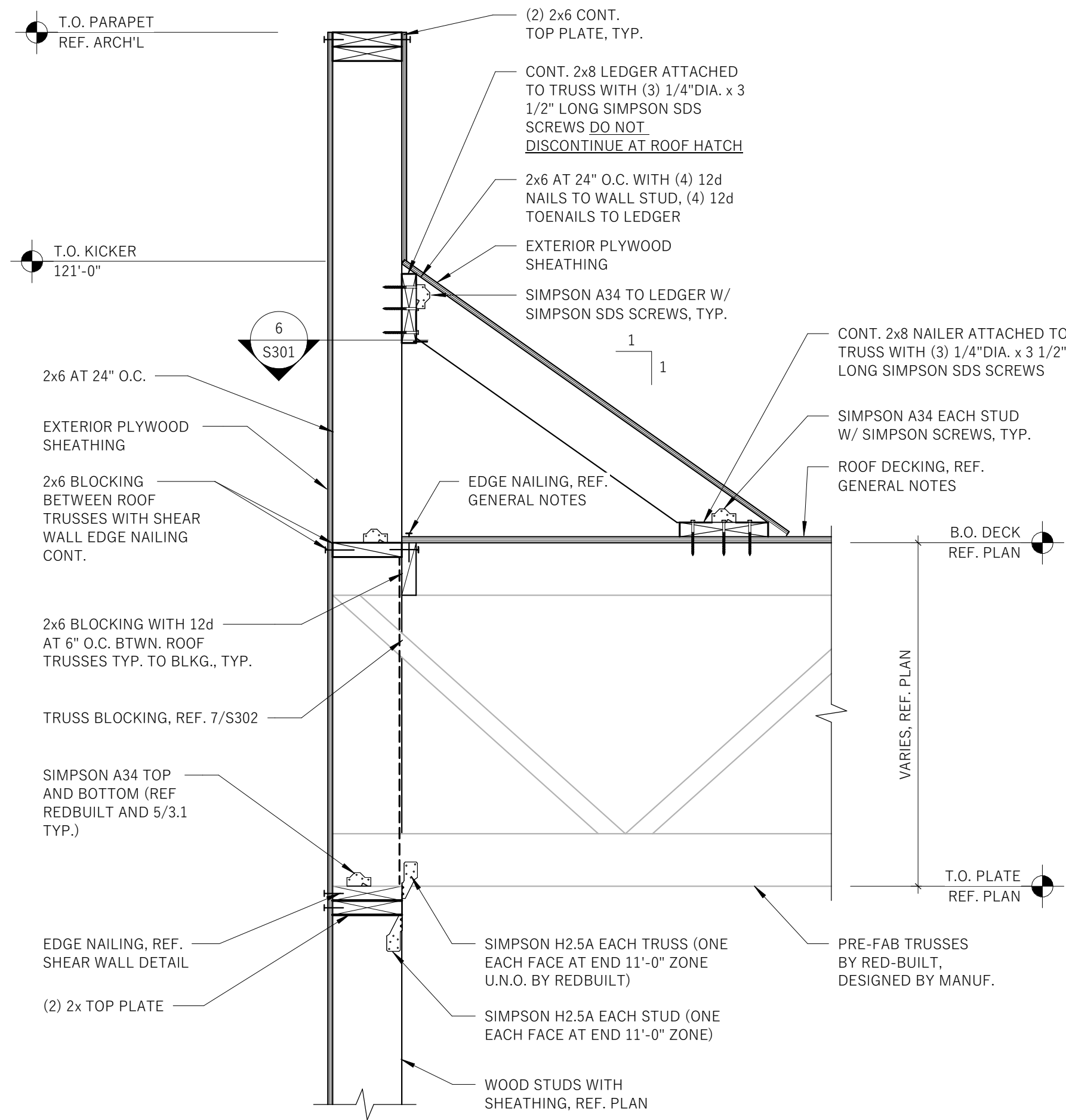
PERMIT SET - 03/13/2023
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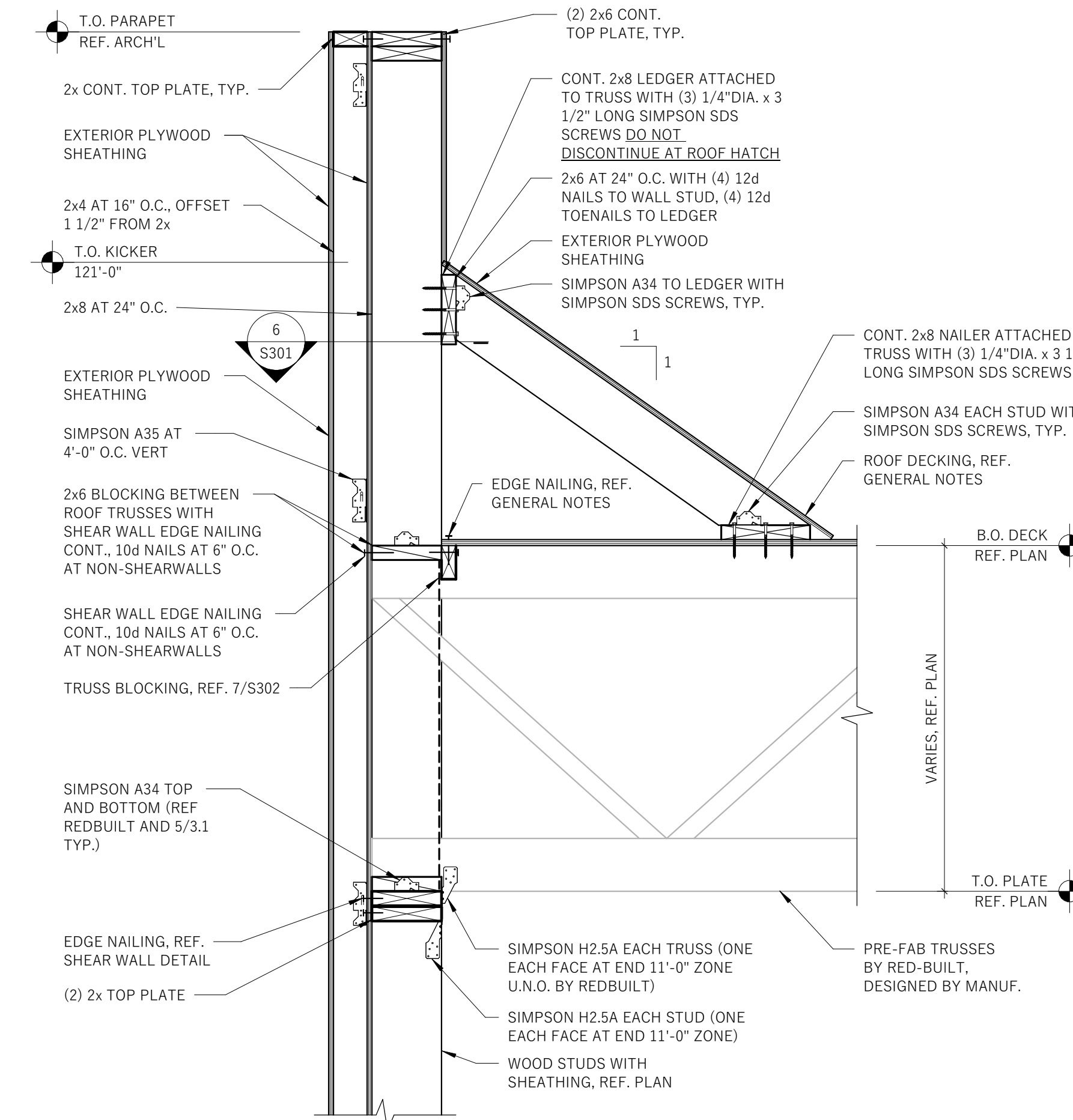
STORE #
XXXX
ADDRESS:
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE:
FOUNDATION DETAILS

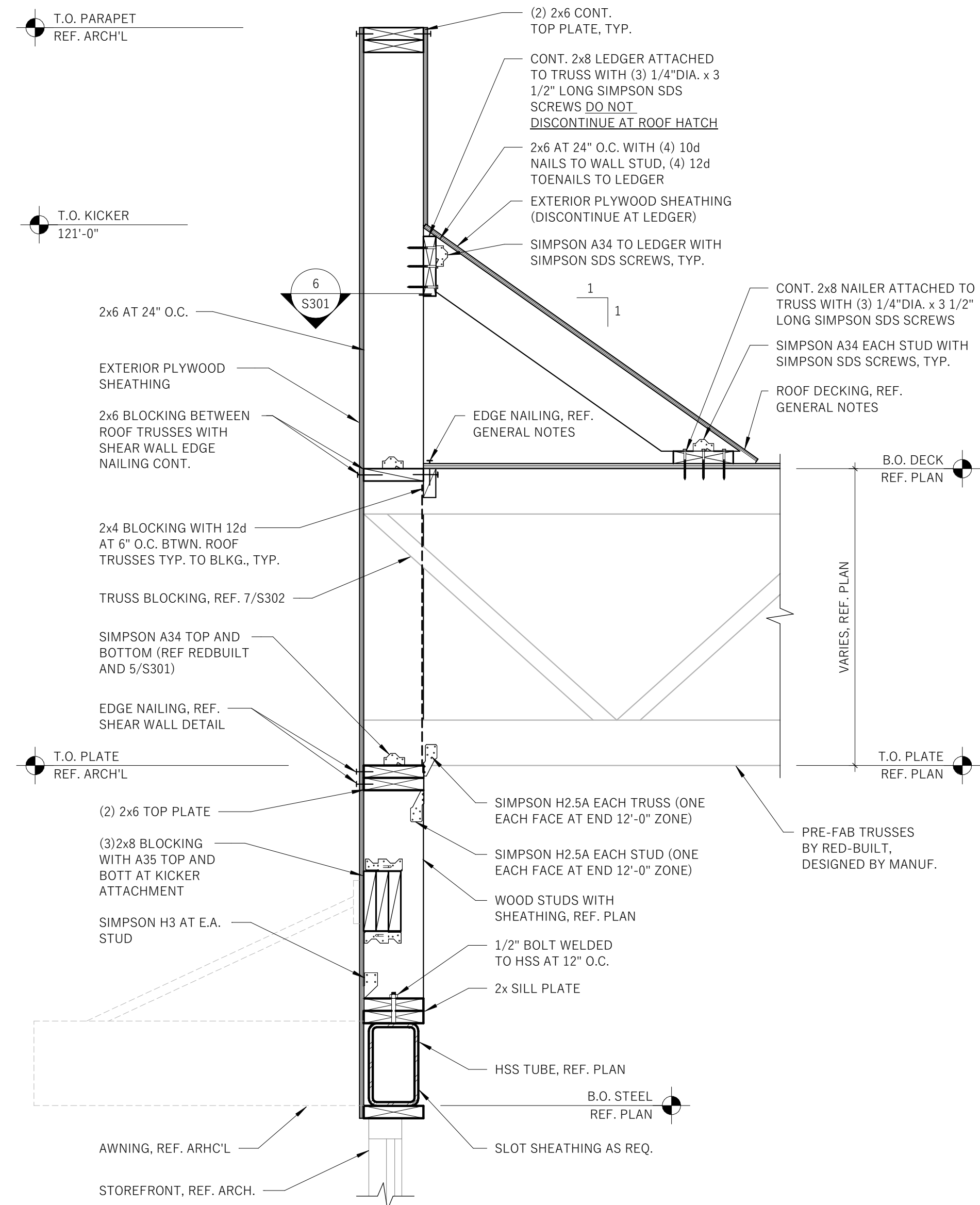
SHEET NUMBER:
S202



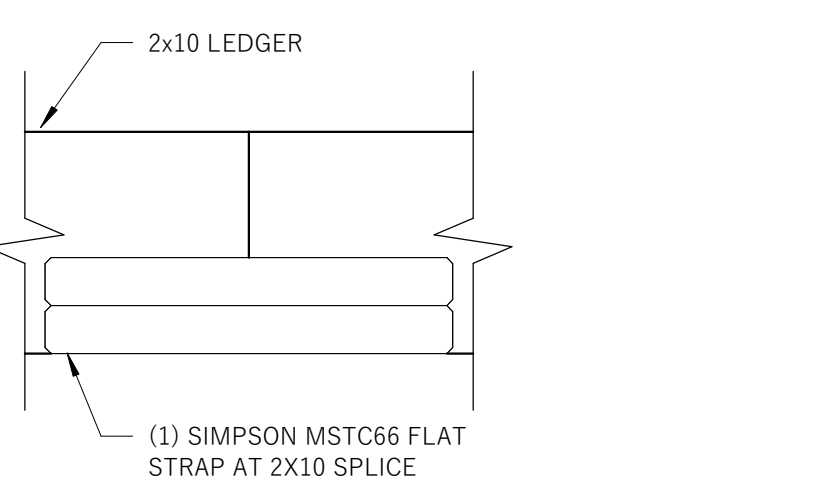
1
TYPICAL BEARING SECTION
S301 1" = 1'-0"



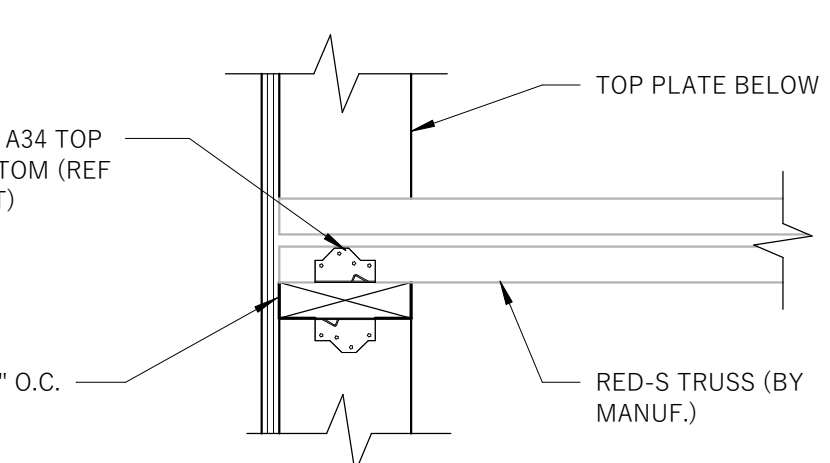
4
BEARING SECTION AT BUMPOUT
S301 1" = 1'-0"



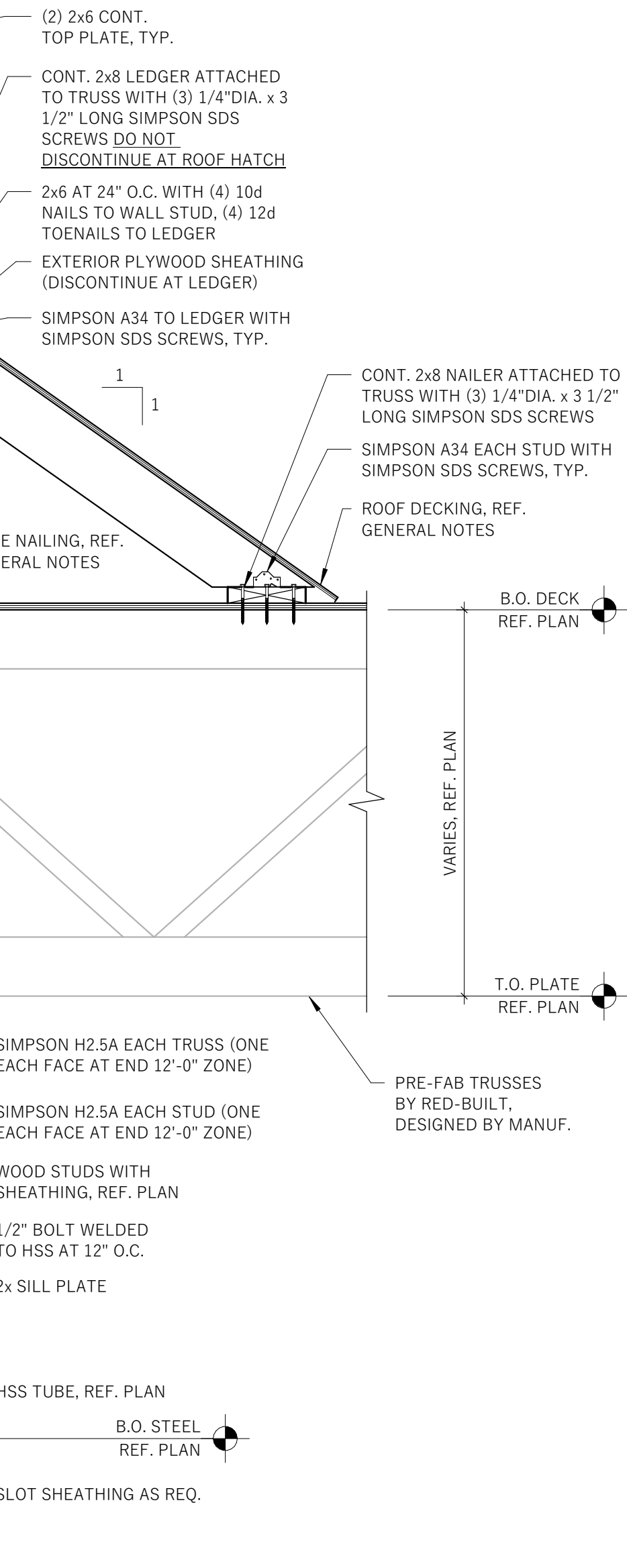
2
SECTION AT STOREFRONT
S301 1" = 1'-0"



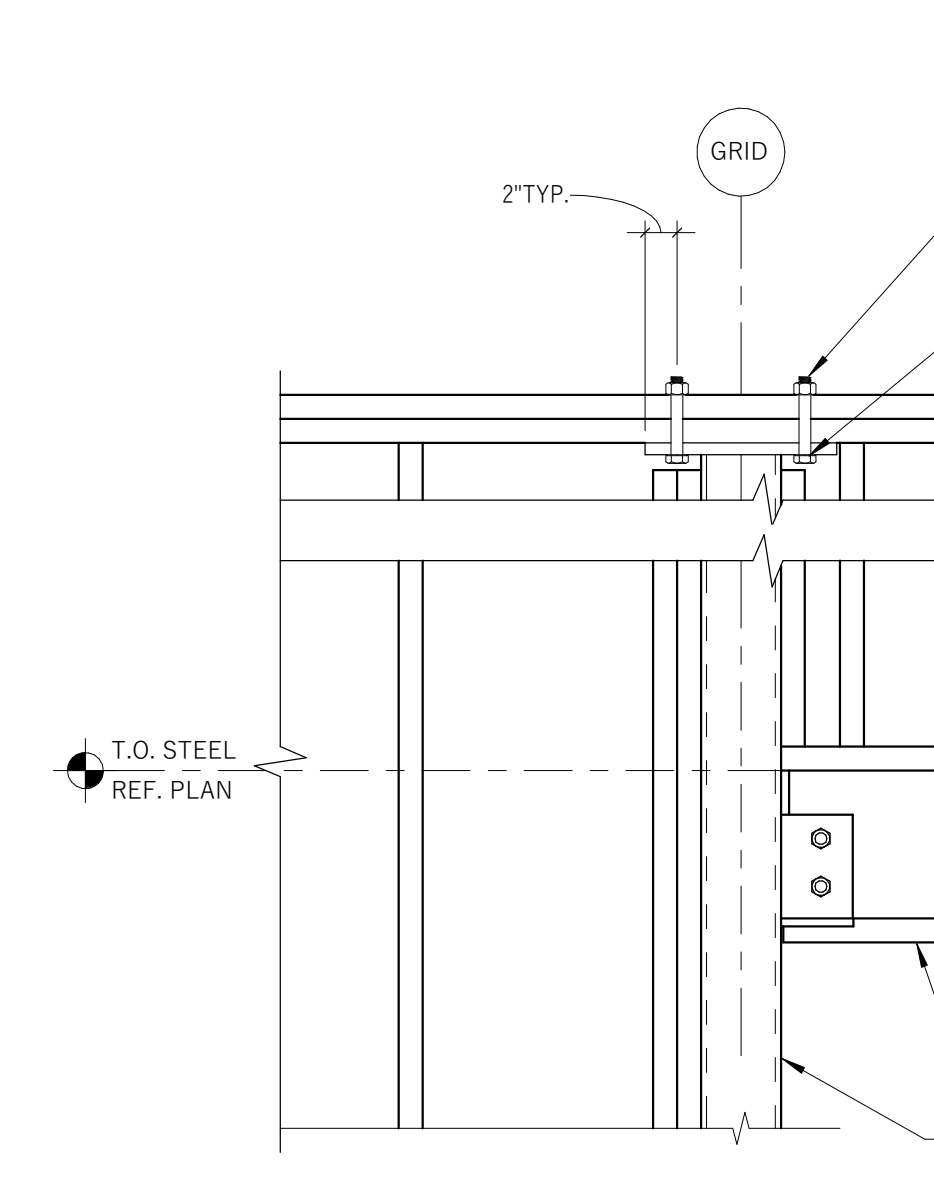
5
DETAIL AT STRAP
S301 1 1/2" = 1'-0"



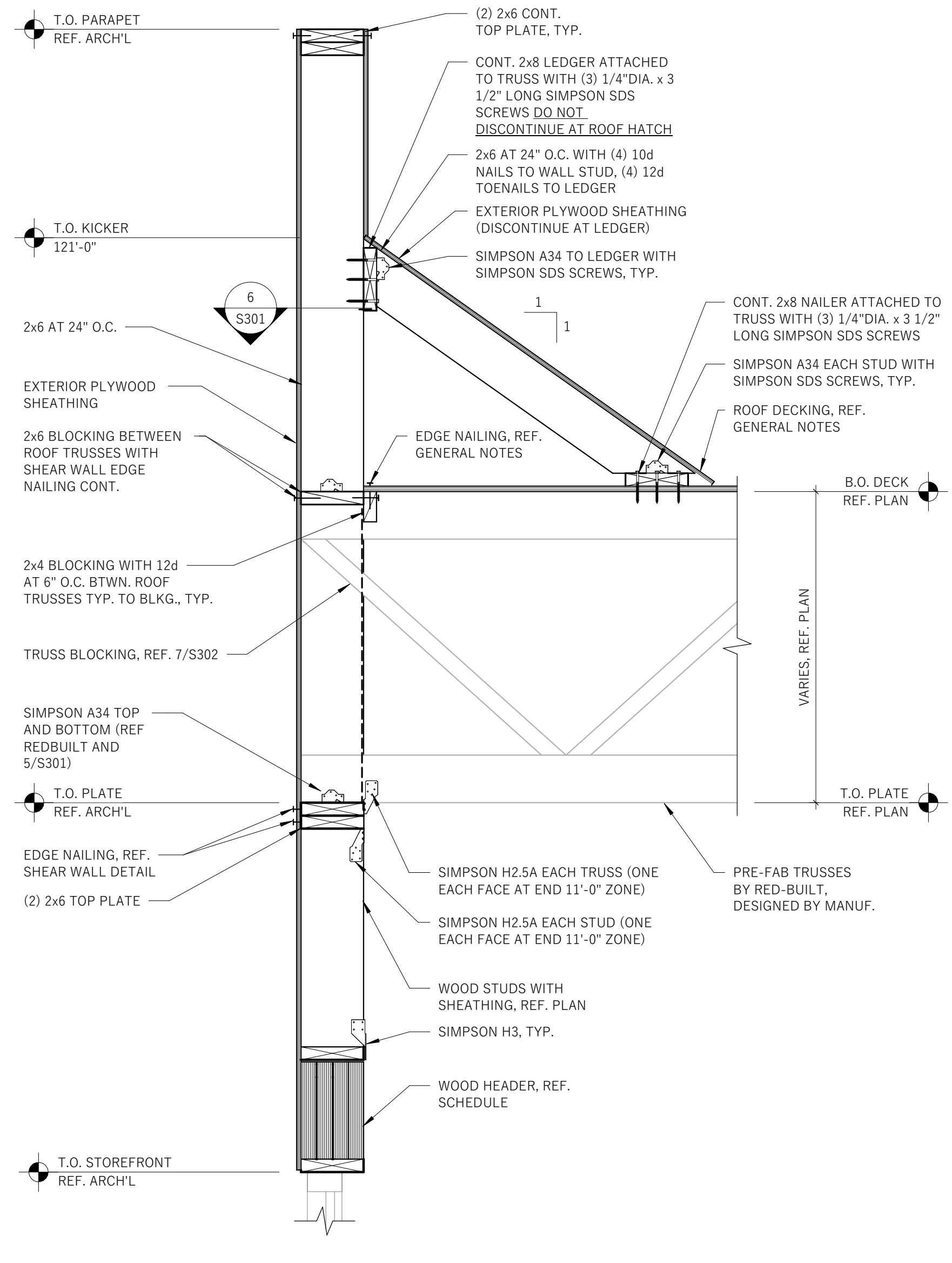
6
PLAN AT TRUSS BEARING
S301 1 1/2" = 1'-0"



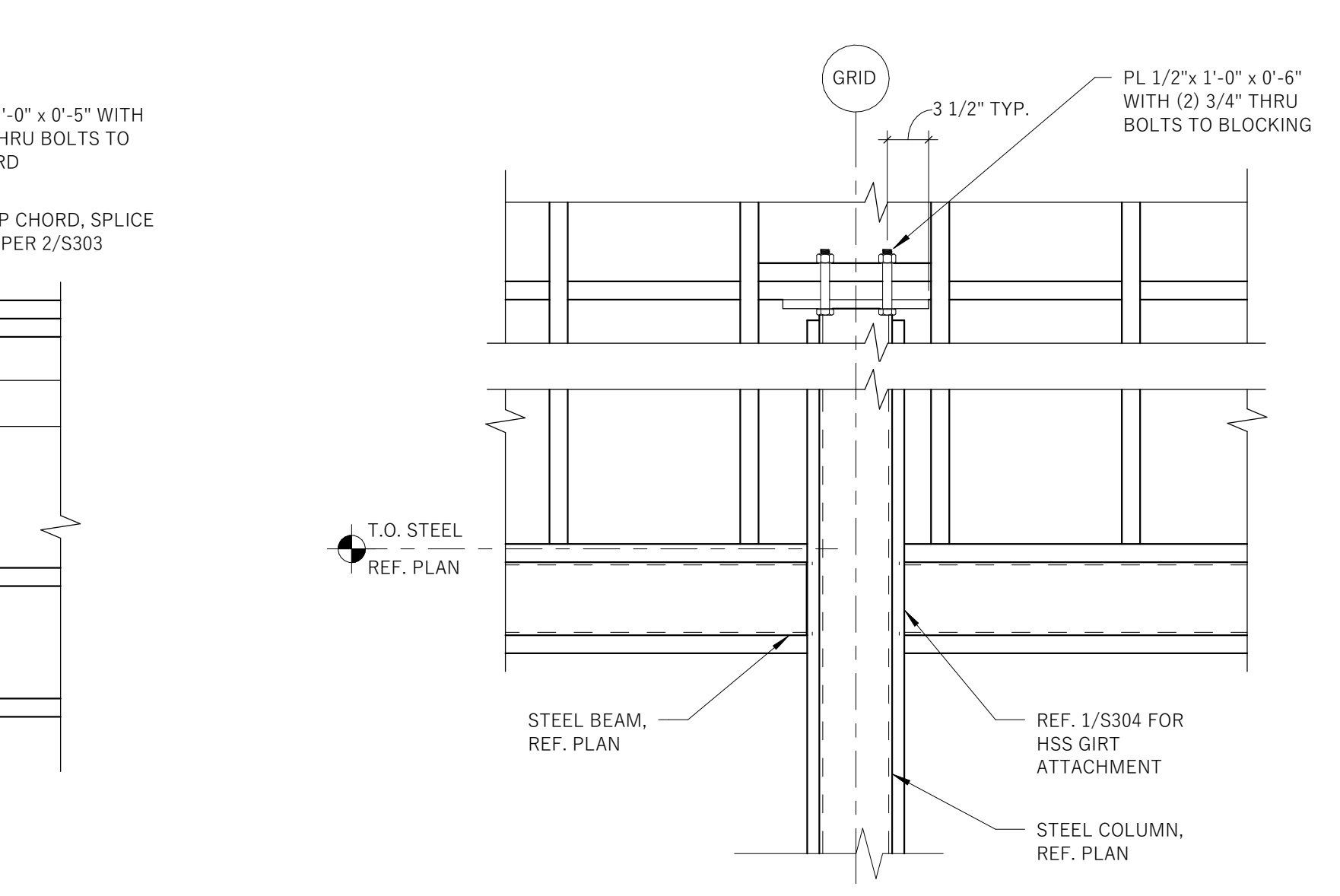
3
SECTION AT HEADER
S301 1" = 1'-0"



7
ELEVATION AT STEEL COLUMN
S301 1" = 1'-0"



8
ELEVATION AT STEEL COLUMN
S301 1" = 1'-0"



8
ELEVATION AT STEEL COLUMN
S301 1" = 1'-0"

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126390
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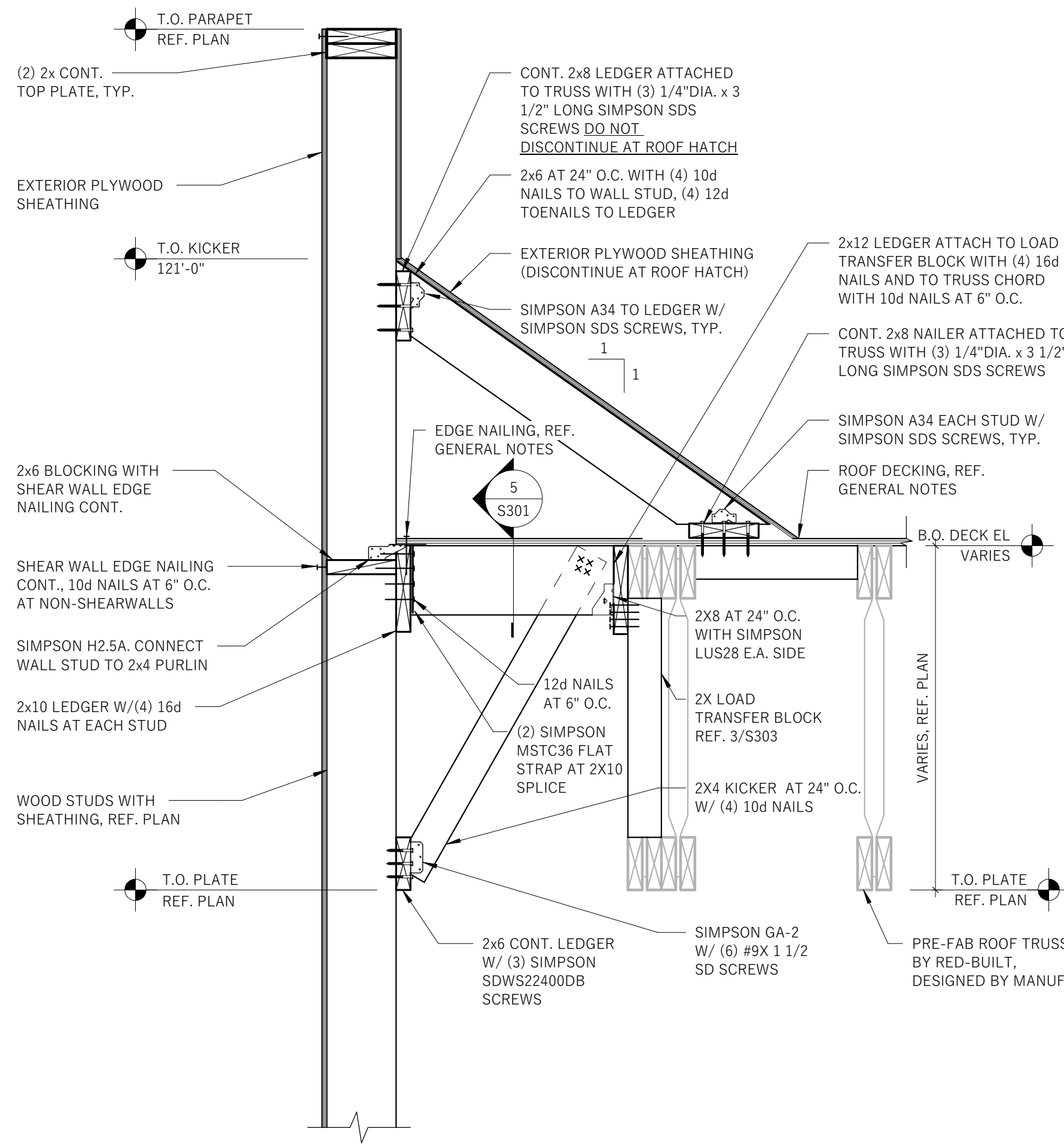
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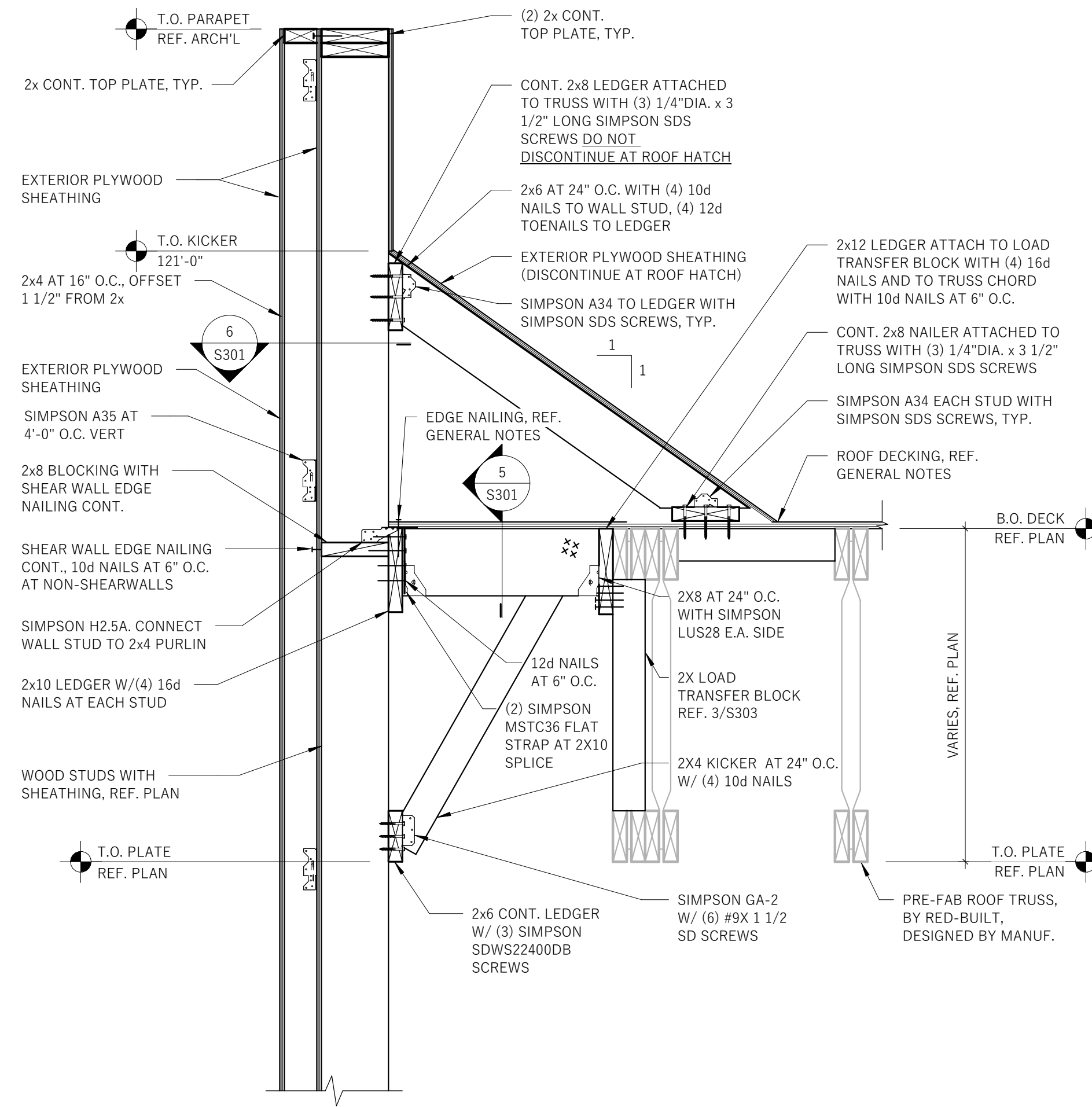
STORE # XXXX
ADDRESS:
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE:
ROOF FRAMING SECTIONS

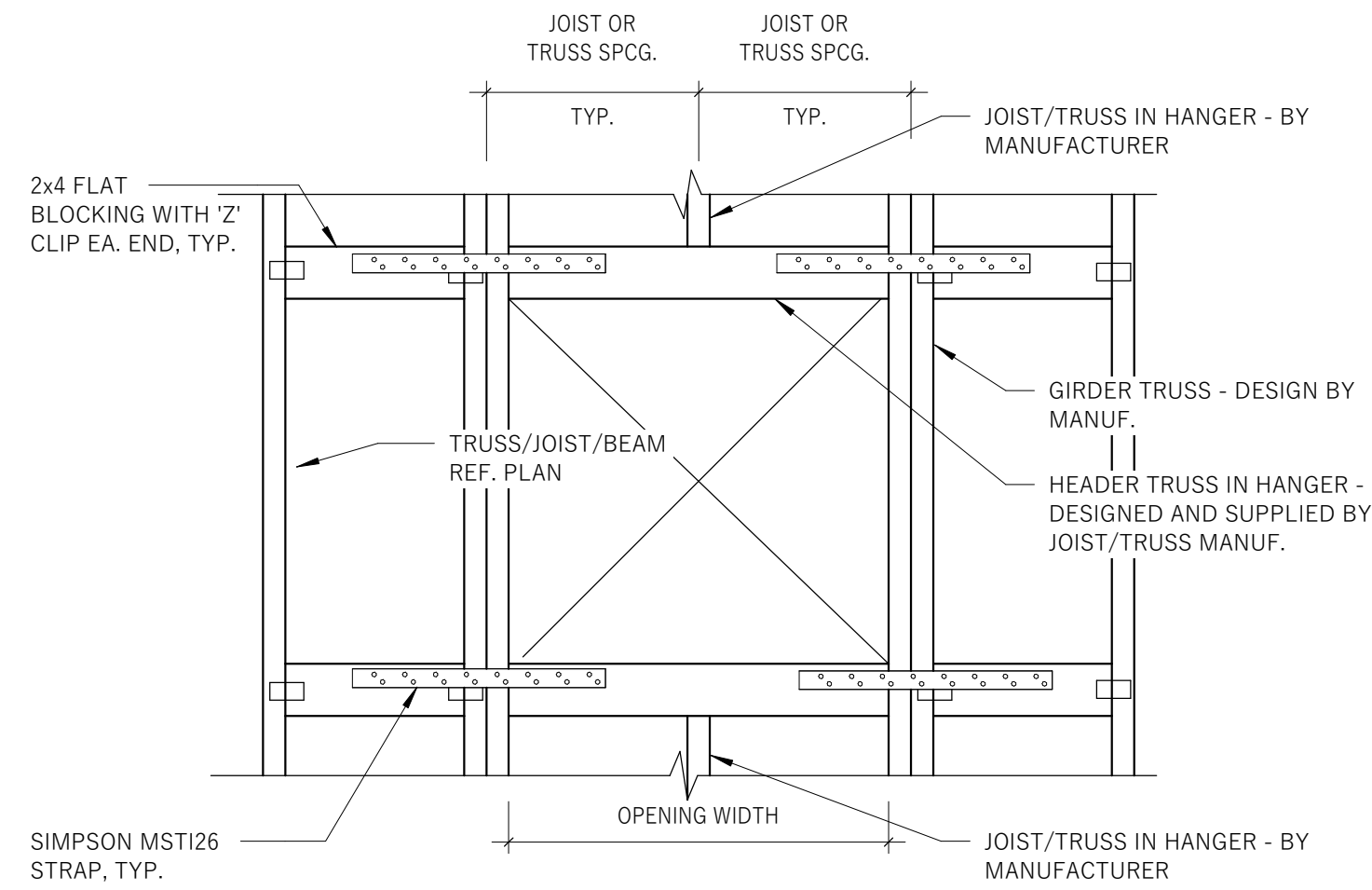
SHEET NUMBER:
S301



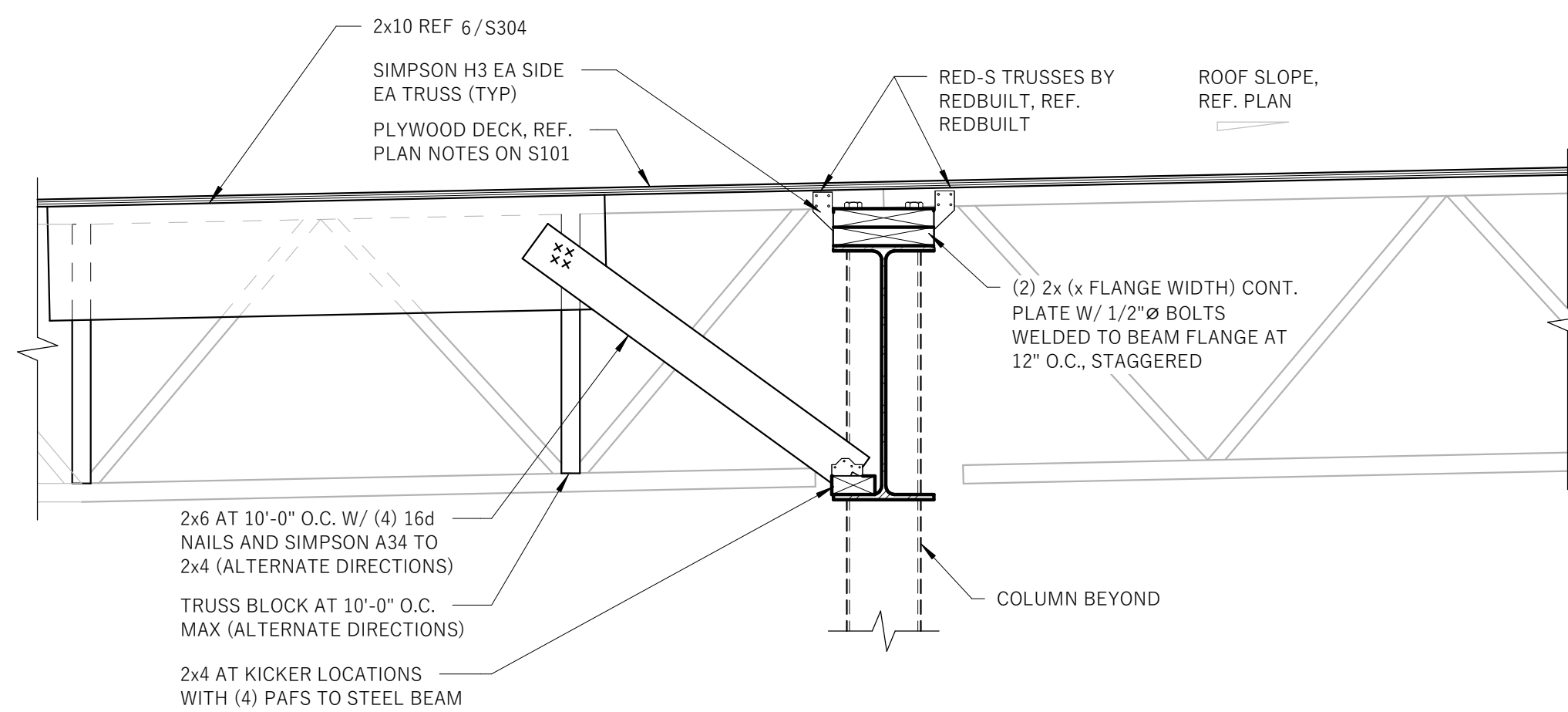
1 TYPICAL PARALLEL SECTION
S302 1" = 1'-0"



2 PARALLEL SECTION AT BUMPOUT
S302 1" = 1'-0"



3 ROOF HATCH OPENING
S302 1" = 1'-0"

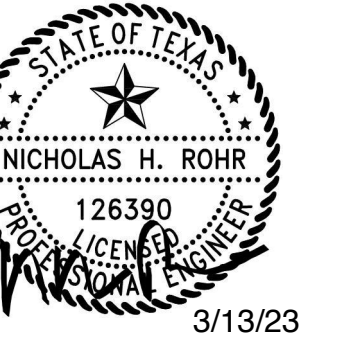


4 REDBUILT TRUSSES BEARING ON STEEL BEAM
S302 1" = 1'-0"

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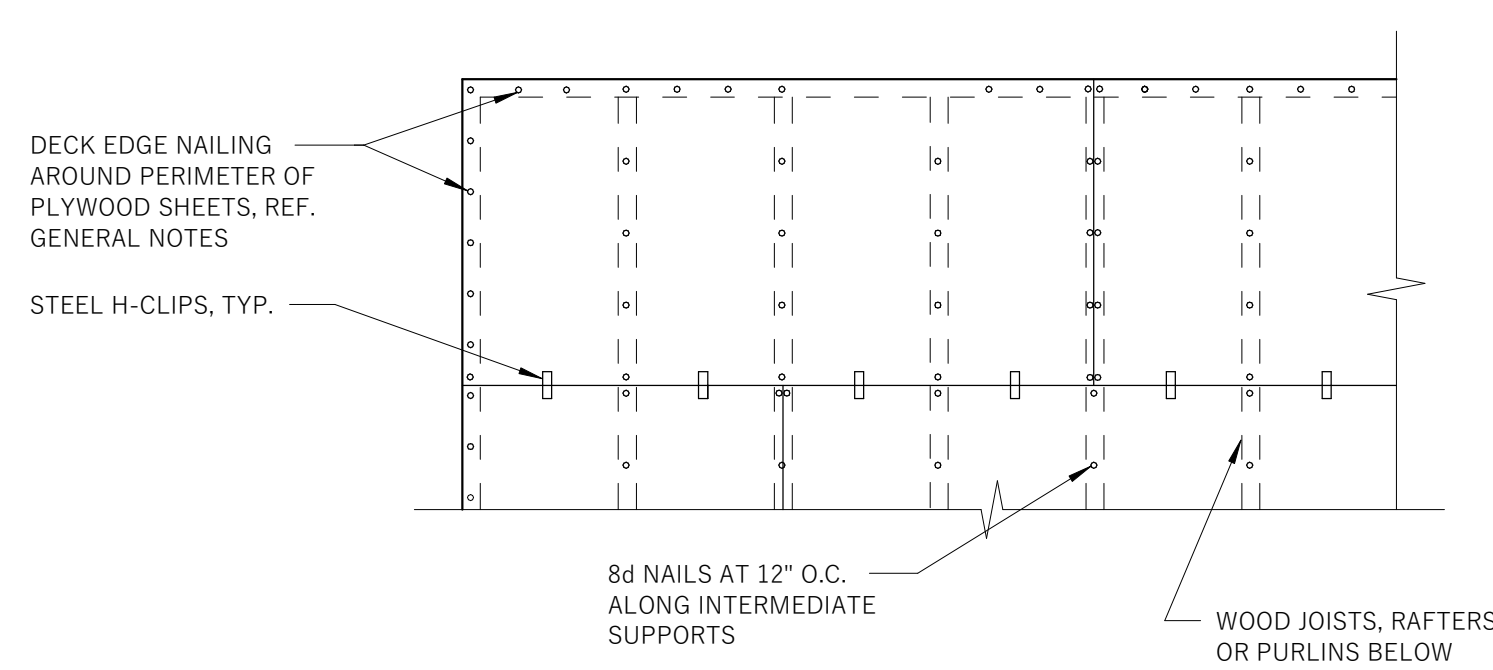
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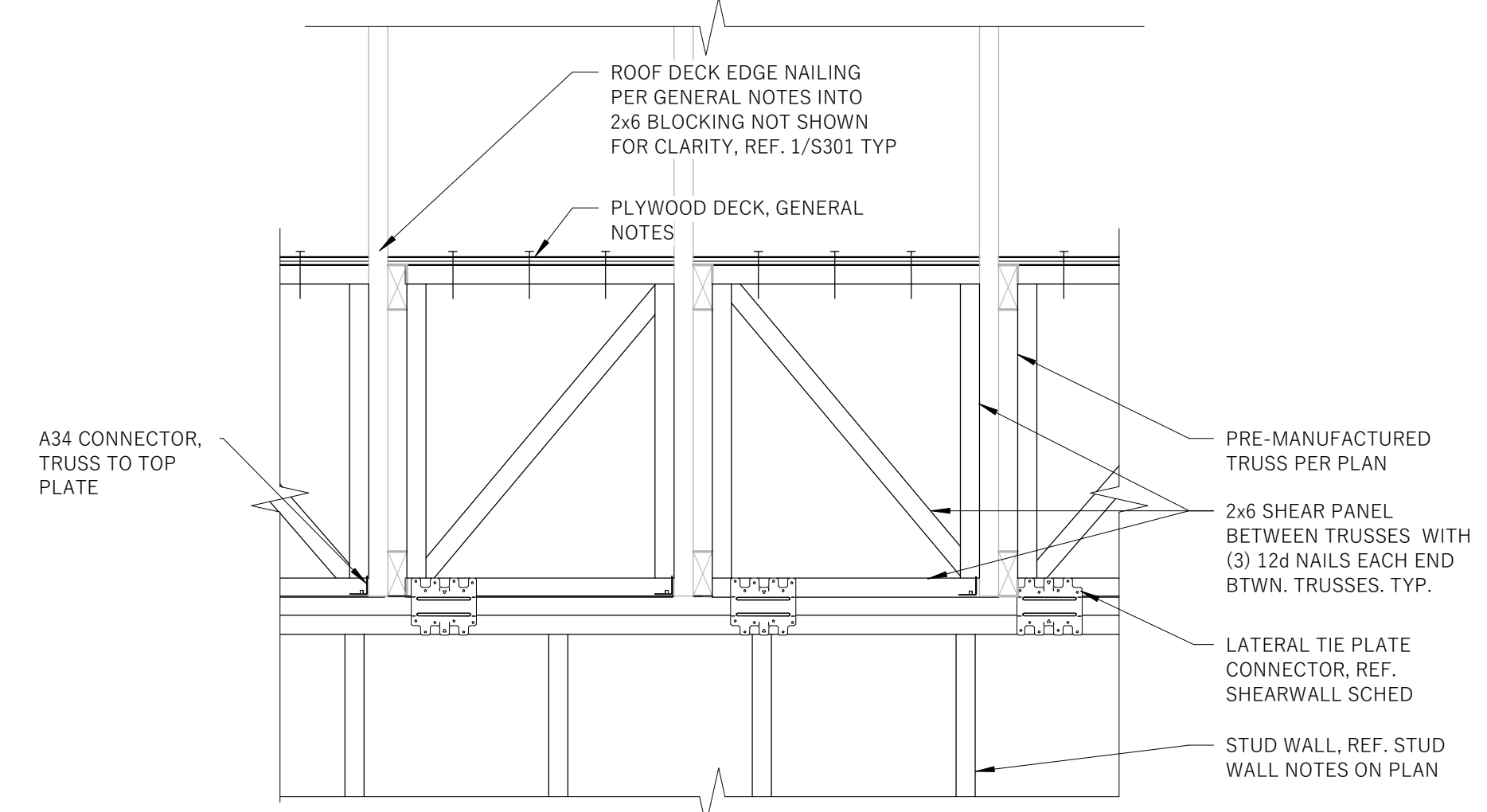
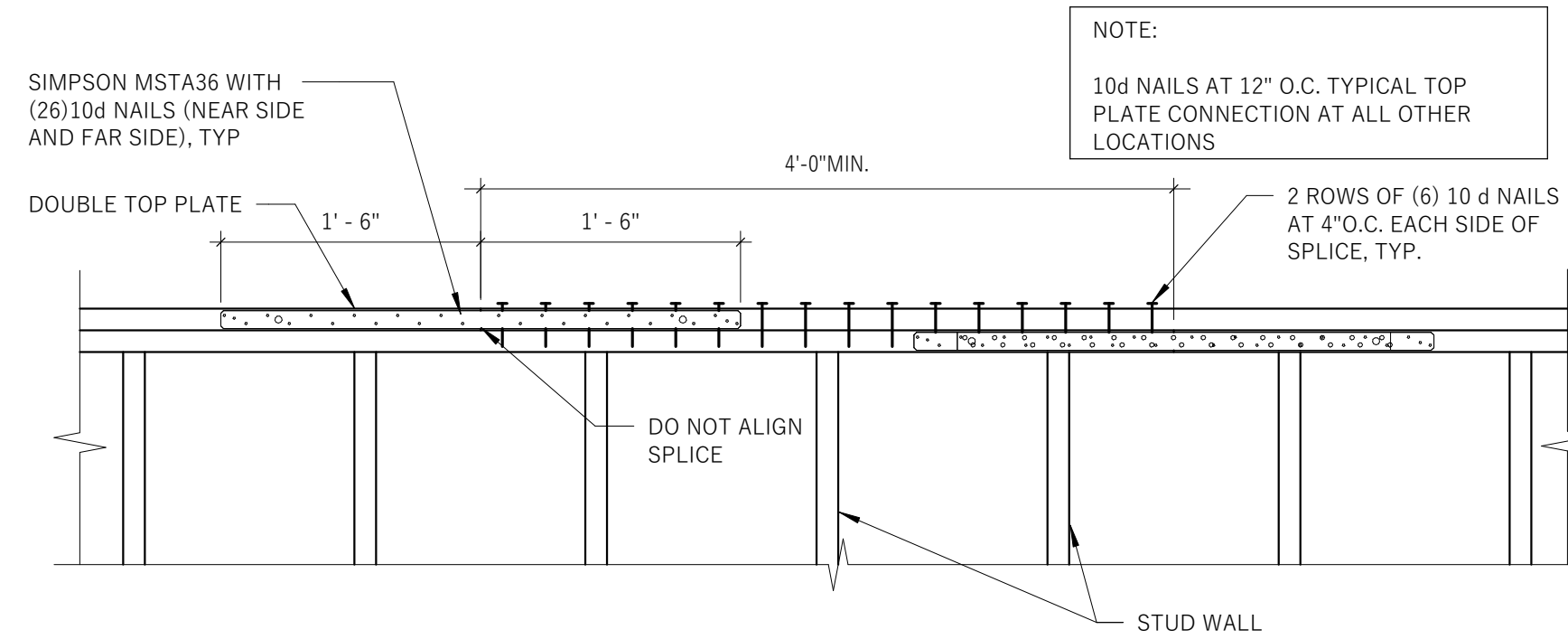
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FAIR OAKS RANCH, TX
78015

SHEET TITLE:
ROOF FRAMING SECTION

SHEET NUMBER:
S302



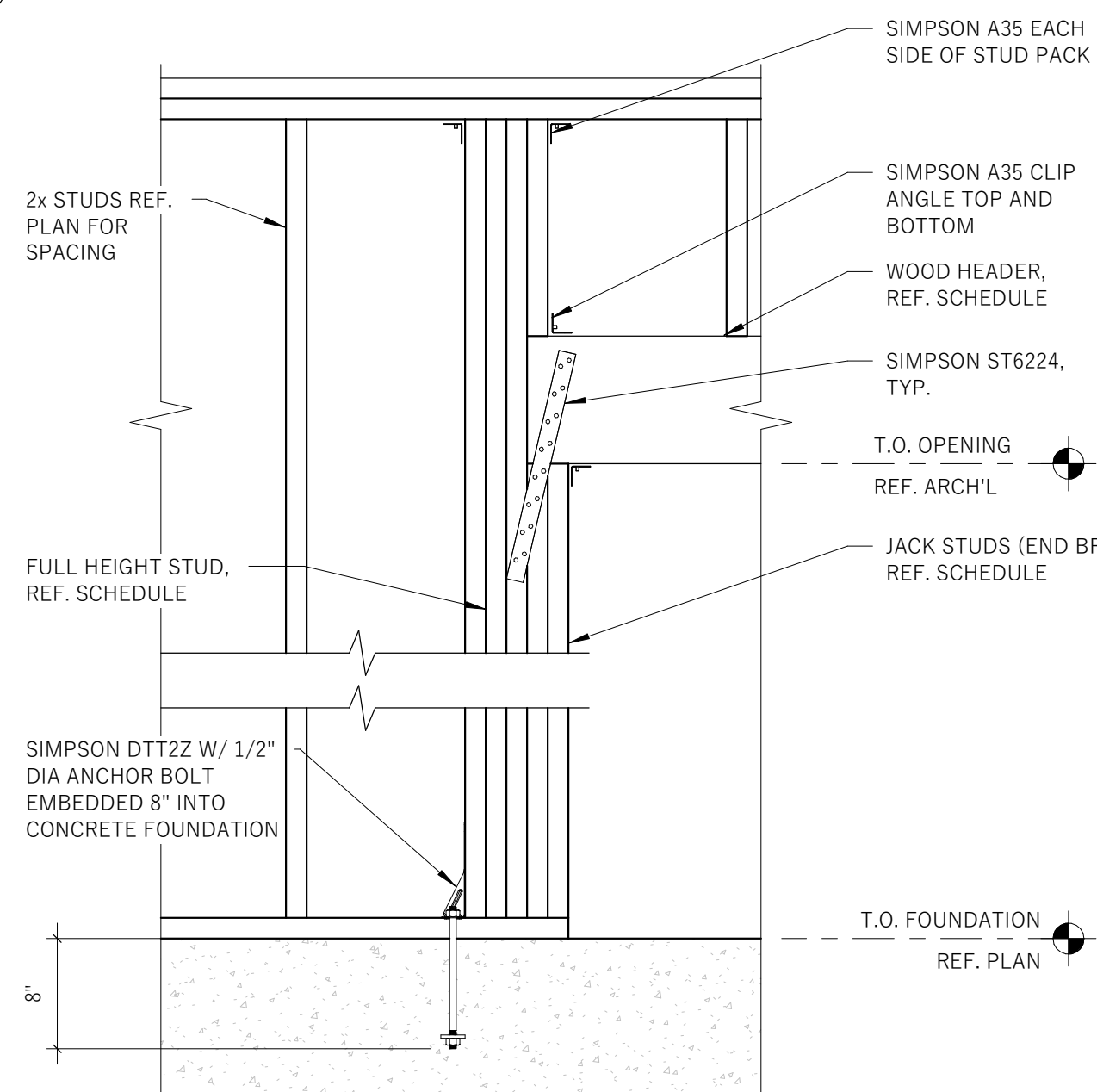
- PLYWOOD DIAPHRAGM NOTES**
- COMMON OR BOX NAILS SHALL BE USED FOR ALL DIAPHRAGM NAILING.
 - PROVIDE 1/8" GAP BETWEEN ALL SHEETS.
 - ALL PLYWOOD DECKING TO BE GRADE C-D WITH EXTERIOR GLUE. REF. GENERAL NOTES AND DETAILS FOR THICKNESS.
 - STAGGER ALL JOINTS IN PLYWOOD DECKING



1
S303
1" = 1'-0"

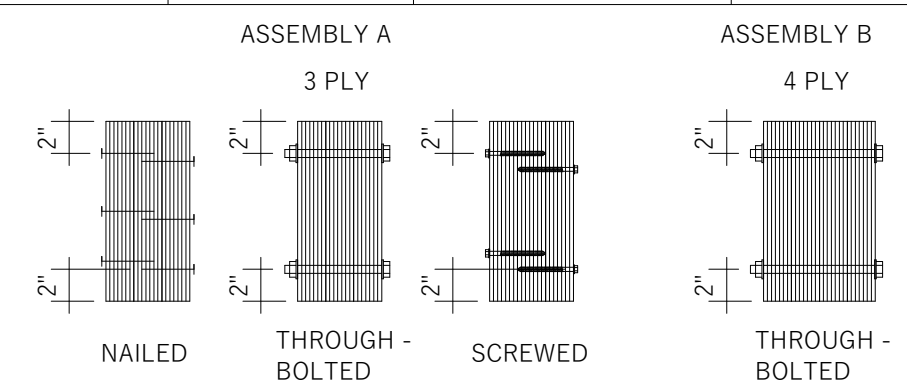
2
S303
1" = 1'-0"

3
S303
1" = 1'-0"



4
S303
1" = 1'-0"

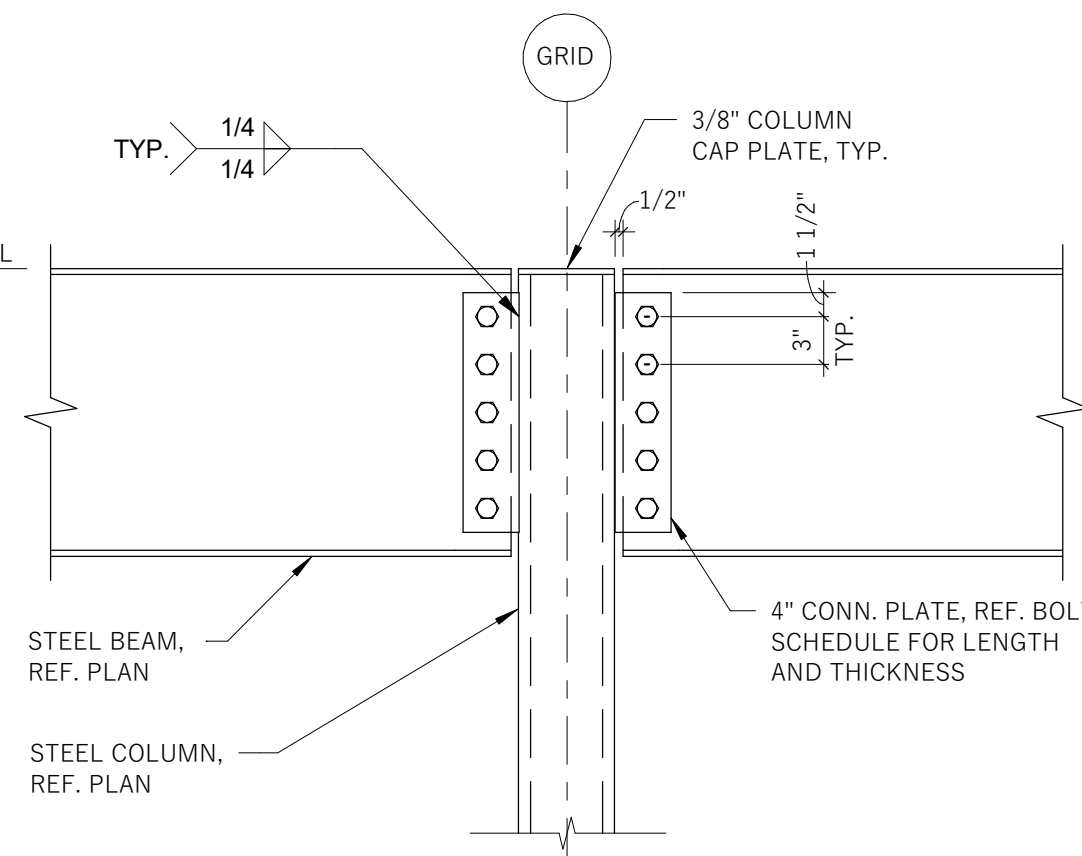
SIDE-LOADED MULTIPLE MEMBER CONNECTION SCHEDULE			
ASSEMBLY TYPE	NAILED CONN.	THROUGH BOLTED CONN.	STRUCTURAL WOOD SCREW CONN.
ASSEMBLY A	3 ROWS 12d COMMON WIRE NAILS AT 12" O.C.	2 ROWS 1/4" DIA. A325 BOLTS WITH WASHERS AT 12" O.C.	2 ROWS 1/4" DIA. x 3 1/2" LONG SCREWS AT 12" O.C.
ASSEMBLY B	NOT APPLICABLE	2 ROWS 1/4" DIA. A325 BOLTS WITH WASHERS AT 12" O.C.	NOT APPLICABLE



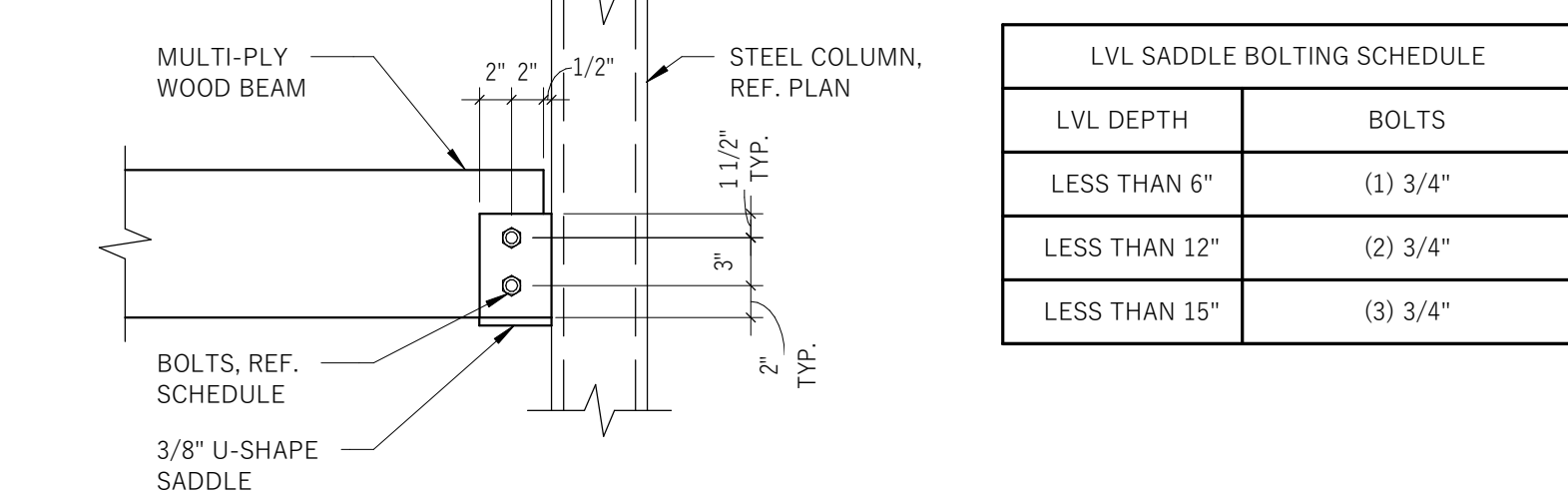
5
S303
1" = 1'-0"

SIDE LOADED MULTIPLE MEMBER CONN. SCHEDULE

BOLTING SCHEDULE		
BEAM	PLATE SIZE	NUMBER OF 3/4" DIA. A325 BOLTS
W8, W10	3/8" x 4" x 6"	2
W12, W14	3/8" x 4" x 9"	3
W16	3/8" x 4" x 12"	4
W18	3/8" x 4" x 15"	5
W21	3/8" x 4" x 18"	6

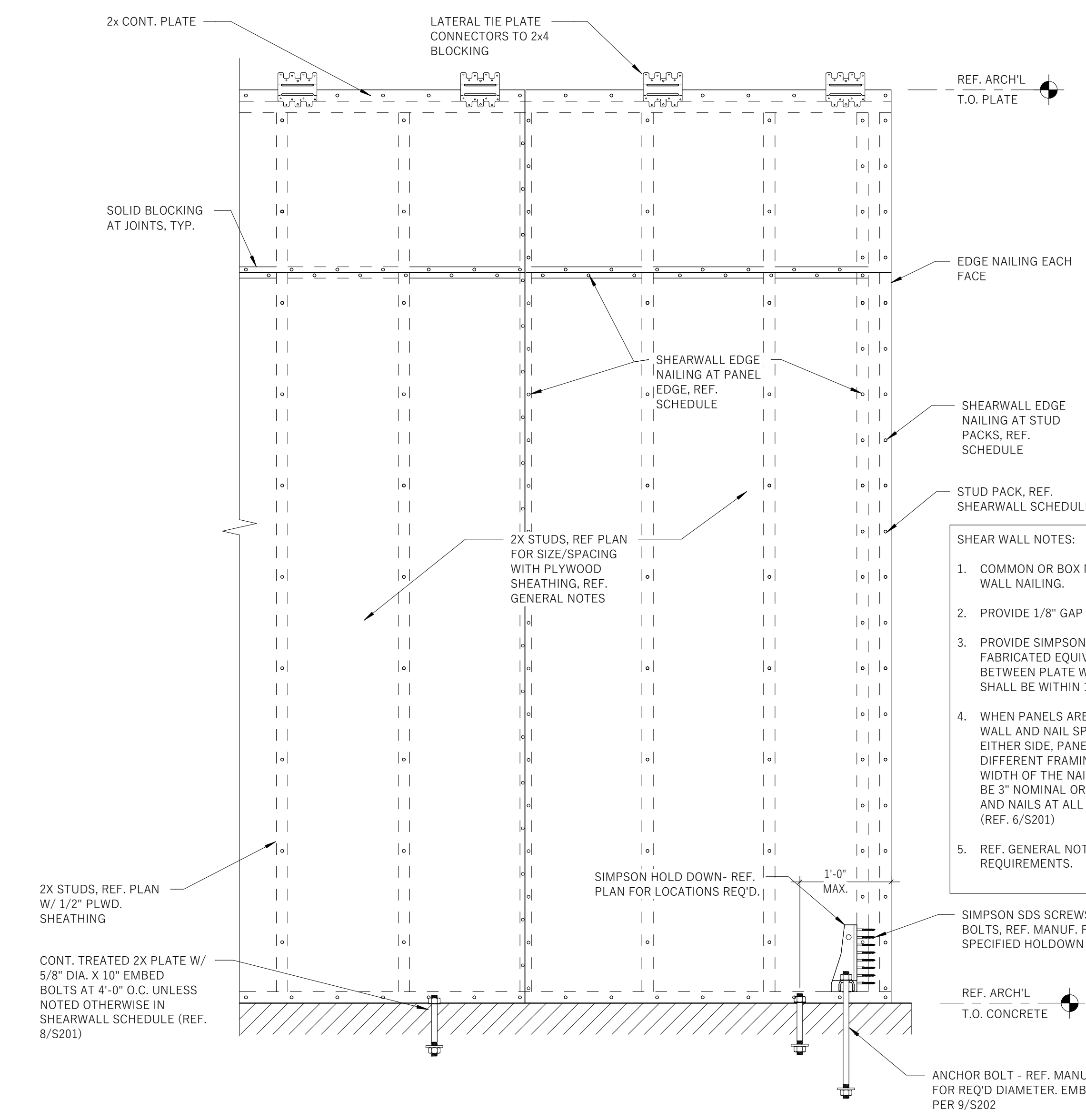


6
S303
1" = 1'-0"



7
S303
1" = 1'-0"

8
S303
1" = 1'-0"



- SHEAR WALL NOTES:**
- COMMON OR BOX NAILS SHALL BE USED FOR ALL SHEAR WALL NAILING.
 - PROVIDE 1/8" GAP BETWEEN ALL SHEETS.
 - PROVIDE SIMPSON BPS-6 SLOTTED PLATE WASHERS (OR FABRICATED EQUIVALENT) WITH STANDARD CUT WASHERS BETWEEN PLATE WASHER & NUT. EDGE OF PLATE WASHER SHALL BE WITHIN 1/2" OF EDGE OF SILL PLATE.
 - WHEN PANELS ARE APPLIED ON BOTH FACES OF A SHEAR WALL AND NAIL SPACING IS LESS THAN 6" ON CENTER ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS. ALTERNATIVELY, THE WIDTH OF THE NAILED FACE OF FRAMING MEMBERS SHALL BE 3" NOMINAL OR GREATER AT ADJOINING PANEL EDGES AND NAILS AT ALL PANEL EDGES SHALL BE STAGGERED. (REF. 6/S201)
 - REF. GENERAL NOTES ON SHEET S001 FOR ALL OTHER REQUIREMENTS.

9
S303
1" = 1'-0"

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126390
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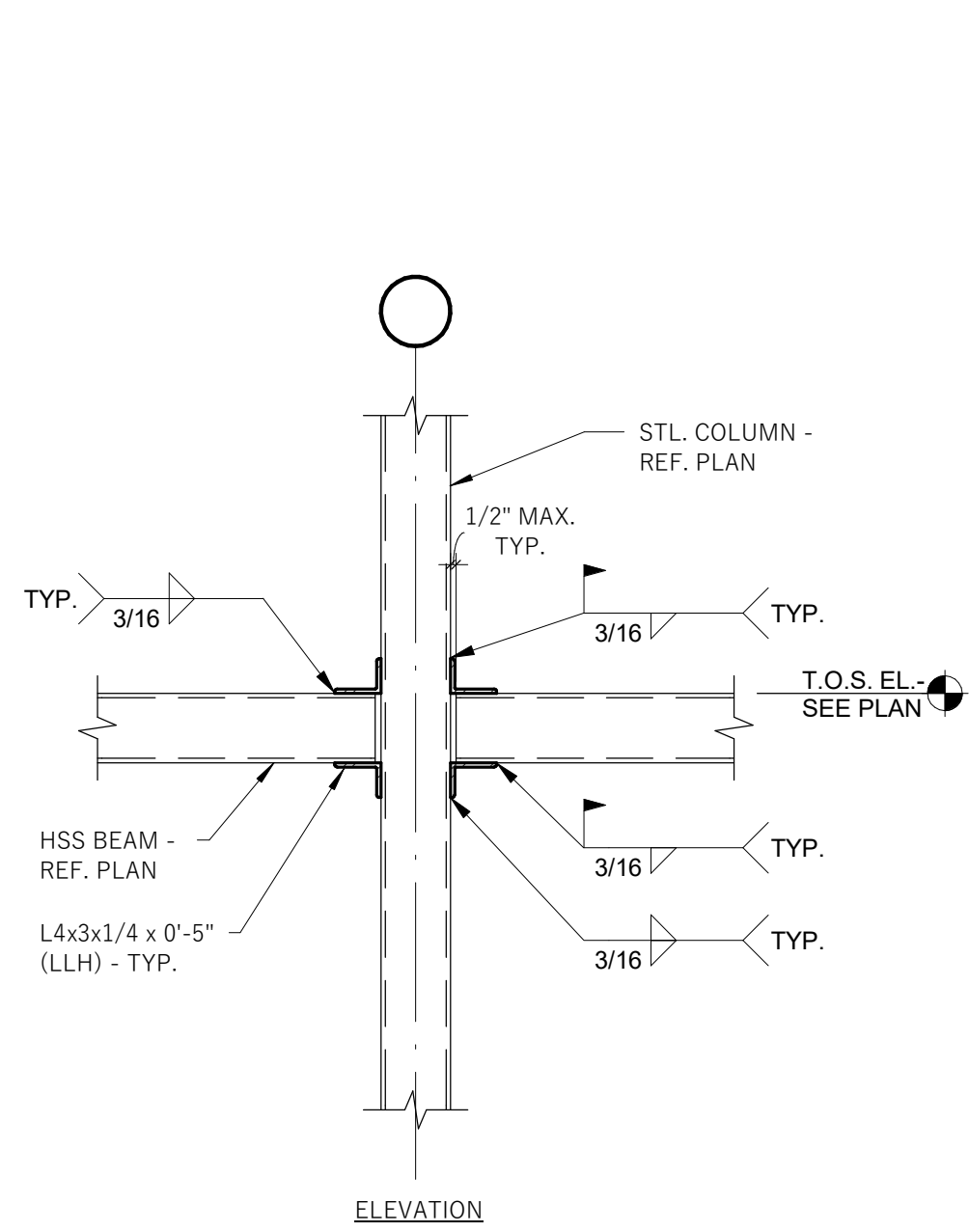
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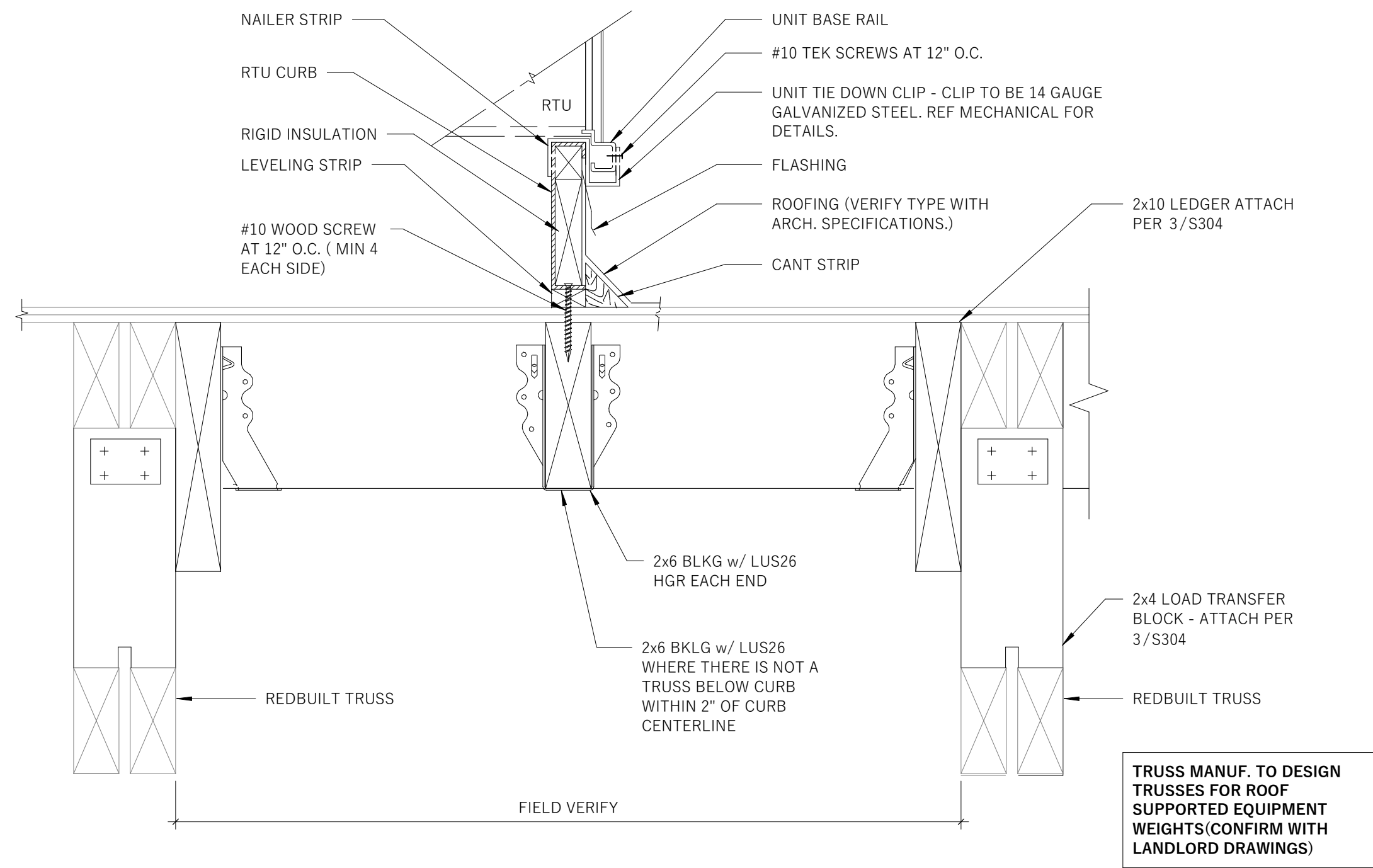
SHEET TITLE:
TYPICAL FRAMING DETAILS

SHEET NUMBER:
S303



1
S304
3/4" = 1'-0"

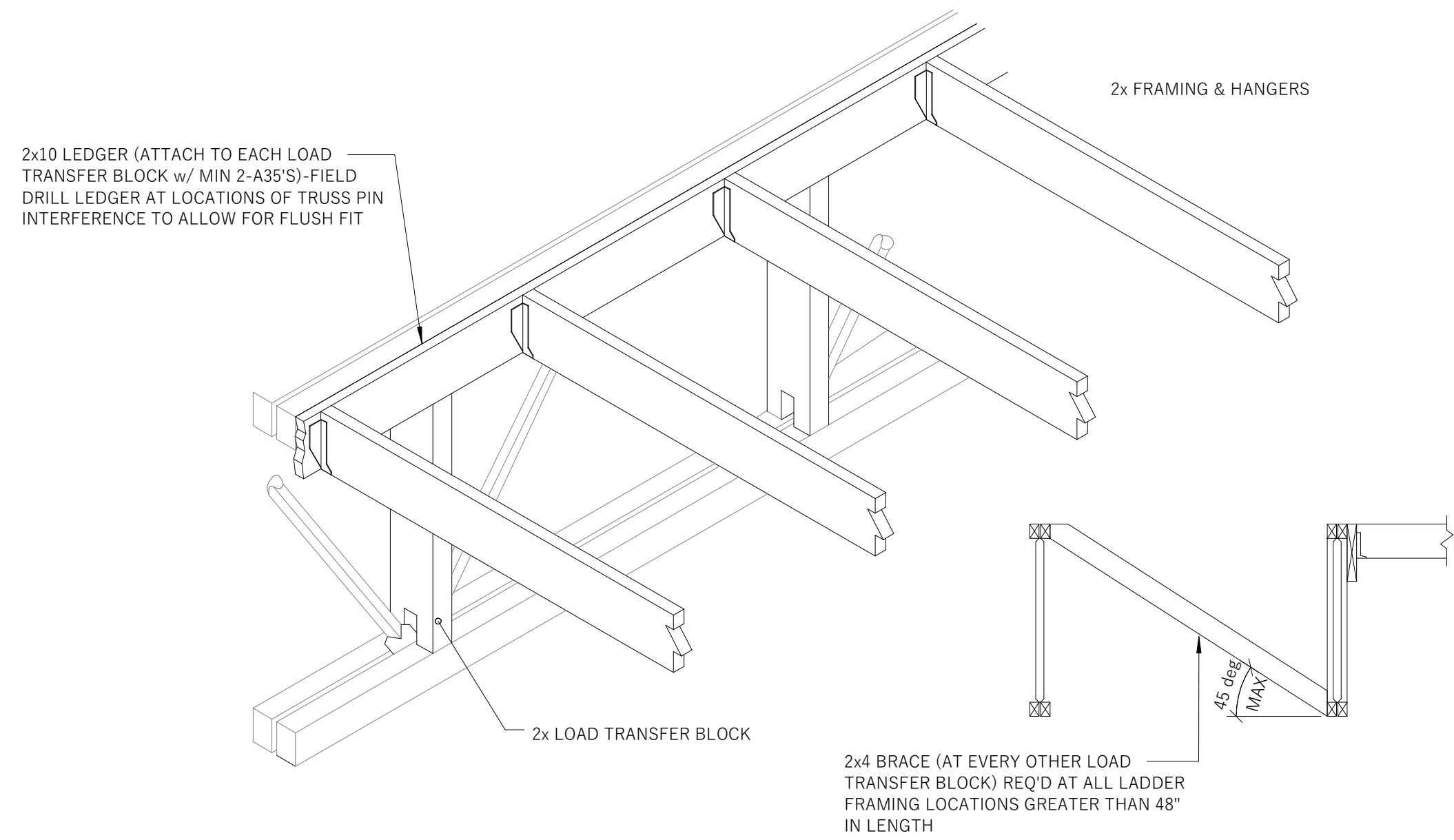
HSS GIRT TO HSS COLUMN CONNECTION



2
S304
1" = 1'-0"

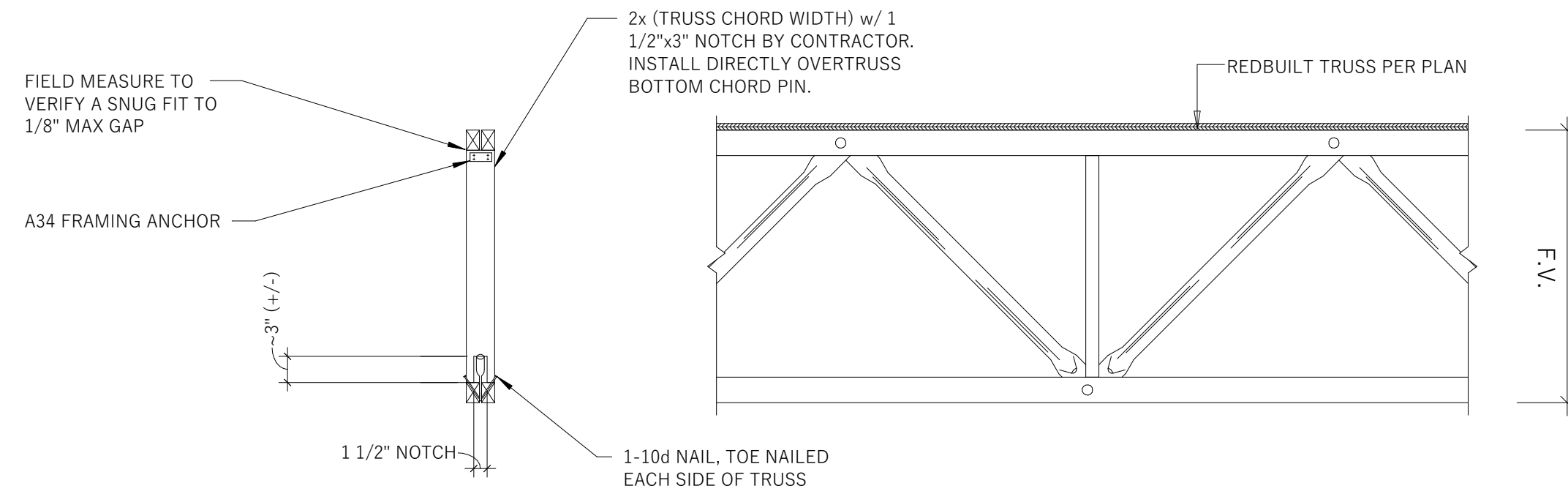
CURB ATTACHEMENT DETAIL - REDBUILT TRUSS

TRUSS MANUF. TO DESIGN TRUSSES FOR ROOF SUPPORTED EQUIPMENT WEIGHTS (CONFIRM WITH LANDLORD DRAWINGS)



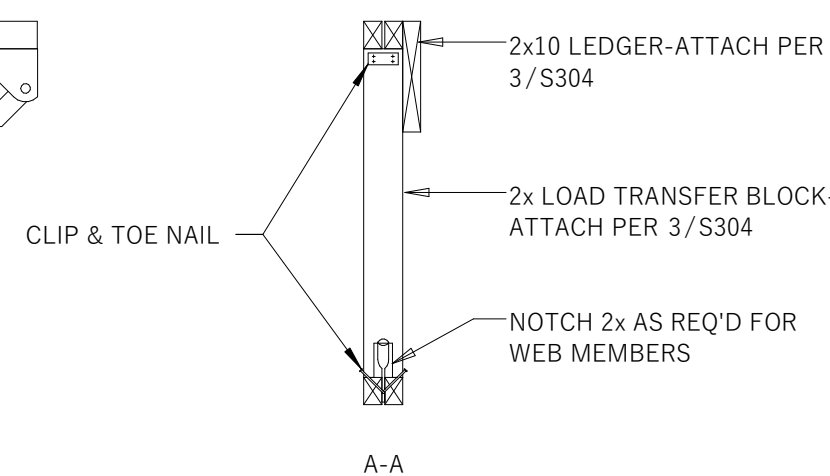
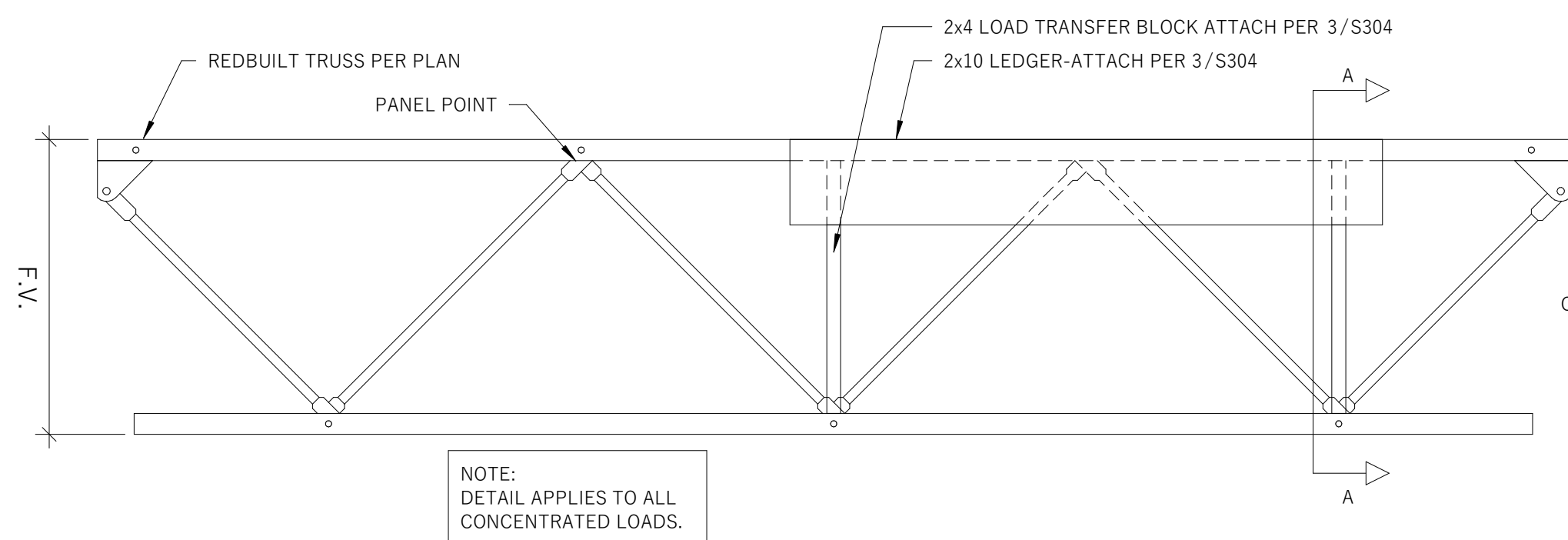
3
S304
3/4" = 1'-0"

TYP. REDBUILT BRACING & 2x FRAMING DETAIL



4
S304
1" = 1'-0"

TYP. REDBUILT LOAD TRANSFER BLOCK



6
S304
1" = 1'-0"

TYP. REDBUILT TRUSS ATTACHEMENT DETAIL

NAILING SCHEDULE	
ROOF CONNECTIONS	NAILING
1. BLOCKING BTWN. CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PL OR OTHER FRAMING BELOW, TOENAIL EA END	3-8D
BLOCKING BTWN. RAFTERS OR TRUSS NOT AT THE WALL TOP PL, TO RAFTER OR TRUSS	2-8D, TOENAIL EA END OR 2-16D, END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER, FACE NAIL	16D AT 6" O.C.
2. CEILING JOISTS TO TOP PL, TOENAIL EA END	3-8D
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, FACE NAIL	3-16D
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT), FACE NAIL	3-16D MINIMUM REF. 2015 IBC TABLE 2308.7.3.1
5. COLLAR TIE TO RAFTER, FACE NAIL	3-10D
6. RAFTER OR ROOF TRUSS TO TOP PL, TOENAIL	3-10D
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM	2-16D END NAIL OR 3-10D TOENAIL
WALL CONNECTIONS	
NAILING	
8. STUD TO STUD (NOT AT BRACE WALL PANELS), FACE NAIL	16D AT 24" O.C. OR 10D AT 16" O.C.
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS), FACE NAIL	16D AT 16" O.C.
10. BUILT-UP HEADER (2" TO 2" HEADER), FACE NAIL	16D AT 16" O.C. EA EDGE
11. CONTINUOUS HEADER TO STUD, TOENAIL	4-8D
12. TOP PL TO TOP PL, FACE NAIL	16D AT 16" O.C.
13. TOP PL TO TOP PL, AT END JOINTS, FACE NAIL EA SIDE OF END JOINT (MIN 24" LAP SPLICE EA SIDE OF END JOIST)	8-16D
14. BOTTOM PL TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACE WALL PANELS), FACE NAIL	16D AT 16" O.C.
15. BOTTOM PL TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACE WALL PANELS, FACE NAIL	2-16D AT 16" O.C.
16. STUD TO TOP OR BOTTOM PL	4-8D TOENAIL OR 2-16D END NAIL
17. TOP OR BOTTOM PL TO STUD, END NAIL	2-16D
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS, FACE NAIL	2-16D
19. 1" BRACE TO EA STUD AND PL, FACE NAIL	2-8D
20. 1" x 6" SHEATHING TO EA BEARING, FACE NAIL	2-8D
21. 1" x 8" AND WIDER SHEATHING TO EA BEARING, FACE NAIL	3-8D
FLOOR CONNECTIONS	
NAILING	
22. JOIST TO SILL, TOP PL, OR GIRDER, TOENAIL	3-8D
23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PL, SILL OR OTHER FRAMING BELOW, TOENAIL	8D AT 6" O.C.
24. 1" x 6" SUBFLOOR OR LESS TO EA JOIST, FACE NAIL	2-8D
25. 2" SUBFLOOR TO JOIST OR GIRDER, FACE NAIL	2-16D
26. 2" PLANKS (PLANK AND BEAM - FLOOR AND ROOF), FACE NAIL EA BEARING	2-16D
27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS, FACE NAIL	20D AT 32" O.C. AT TOP AND BOTTOM AND STAGGERED 2-20D AT ENDS AND AT EA SPLICE
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS, FACE NAIL EA JOIST OR RAFTER	3-16D
29. JOIST TO BAND JOIST OR RIM JOIST, END NAIL	3-16D
30. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS, TOENAIL EA END	2-8D

2018 IBC NAILING SCHEDULE

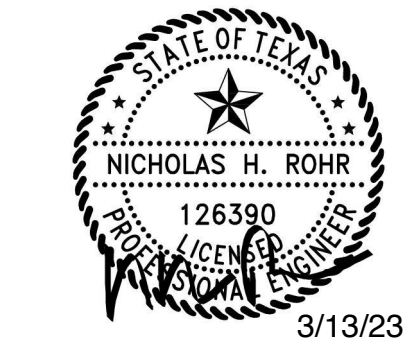
5
S304
1/4" = 1'-0"

NAILING SCHEDULE

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STORE #:
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ADDRESS:
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FAIR OAKS RANCH, TX
78015

SHEET TITLE:
TYPICAL FRAMING DETAILS

SHEET NUMBER:
S304

PLUMBING GENERAL NOTES

THE NOTES BELOW ARE PART OF THE CONTRACT DOCUMENTS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO READ AND UNDERSTAND THEM.

- DO NOT SCALE DRAWINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS AND MOUNTING HEIGHTS. OBTAIN EXACT F.D. AND F.S. LOCATIONS FROM MECHANICAL AND FOOD SERVICE DRAWINGS. ROUGH-IN KITCHENS, BARS, ETC. FROM APPROVED FOOD SERVICE SHOP DRAWINGS.
- V.T.R.'S SHALL BE MIN. (25'-0") (10'-0") FROM O.A. INTAKES. COORDINATE WITH A.C. SECTION.
- VERIFY LOCATION OF HANDICAPPED FIXTURES WITH ARCHITECTURAL DRAWINGS.
- PROVIDE CHROME PLATED ESCUTCHEONS AT PIPE SLEEVES FOR EXPOSED BARE PIPE.
- PROVIDE A.D.'S IN GYP. BOARD CEILINGS AND INACCESSIBLE WALLS FOR VALVES AND C.O.'S.
- PLUMBING FIXTURES SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDER RELEASE. CONTRACTOR SHALL VERIFY PLUMBING FIXTURES W/ ARCHITECT PRIOR TO BID.
- AT HANDICAP LAVATORIES & SINKS, COVER OFFSET WASTE, P-TRAP, HOT & COLD WATER ANGLE STOPS & SUPPLIES WITH WHITE SKAL GARD MODEL SG-102, 103 & 104. (EQUAL BY PROWRAP).
- ARRANGE W.H.'S TO PROVIDE EASE OF DISASSEMBLY & MAINTENANCE.
- PIPES PASSING THRU FIRE RATED WALLS & FLOORS SHALL BE SEALED WITH U.L. LISTED MATERIAL EQUAL TO 3M FIRE BARRIER, CAULK OR PUTTY. SEALANT'S RATING SHALL MATCH THE RATING OF THE ASSEMBLY.
- EQUIPMENT START-UP SHALL BE BY MFR'S. AUTHORIZED REPRESENTATIVES.
- SHOWER HEAD ESCUTCHEONS SHALL BE RIGIDLY ATTACHED TO THE WALL USING "POLYSEAM SEAL" CAULKING MATERIAL.
- FLOOR SINKS SHALL BE LOCATED SO AS NOT TO CREATE TRIPPING HAZARD WHEN ROUTING DRAIN LINES @ FLOOR LEVEL. VERIFY EXACT DRAIN LINE ROUTING PRIOR TO FLOOR SINK ROUGH-IN.
- PLUMBING RISER ISOLATION & DRAIN VALVES, AS WELL AS HWR THROTTLING VALVES SHALL BE LOCATED WITHIN EASY REACH OF CEILING, WHERE CEILINGS OCCUR BELOW & DROPPED TO WITHIN A MAX. 10'-0" OF FIN. FLOOR WHERE NO CEILING OCCURS.
- PIPING SHALL BE SEISMICALLY BRACED IN ACCORDANCE W/ SMACNA GUIDELINES FOR SEISMIC RESTRAINT.
- WHERE HANDICAPPED WATER CLOSET INDICATED (VERIFY W/ ARCH. DWGS.), LOCATE FLUSH VALVE ON WIDE SIDE OF STALL PER A.D.A. STANDARDS.
- INSULATED PIPING EXPOSED TO VIEW THROUGHOUT THE FACILITY SHALL BE COVERED AND FINISHED W/ PVC JACKET EQUAL TO MANVILLE PVC / PERMAPIPE JACKETING SYSTEM USING 30 MIL THICK JACKET. INSTALL PER MFR.'S INSTRUCTIONS W/ SEAM ON TOP OF PIPE SO AS TO NOT BE VISIBLE FROM OCCUPIED SPACE.
- PROVIDE WALL CLEANOUTS AT SINKS AND URINALS IN ACCORDANCE W/ APPLICABLE SECTIONS OF THE APPLICABLE PLUMBING CODE.
- TRAP PRIMER EQUAL TO PRECISION PRODUCTS CO. "PRIME-RITE" SHALL BE INSTALLED AT FLOOR SINKS & FLOOR DRAINS IN MECHANICAL ROOMS, AND TOILET ROOMS. PIPE PER MFR.'S. INSTALLATION INSTRUCTIONS.
- PROVIDE 1/2" S.O.V. AHEAD OF EACH TRAP PRIMER.
- PROVIDE S.M. DRAIN PAN UNDER SOIL & WASTE PIPING WHERE PIPING OCCURS ABOVE KITCHENS. PIPE 3/4" D. FROM DRAIN PAN TO OVER NEAREST F.S.
- PROVIDE A 6 MIL. POLYETHYLENE SLEEVE SYSTEM EQUAL TO IPS WATER-TITE FOR COPPER DOMESTIC WATER PIPE BELOW SLAB.
- HOT & COLD WATER S.O.V.'S & HOT WATER RETURN T.V.'S SHALL BE LOCATED TO BE EASILY ACCESSED.
- MINIMUM DISTANCE FOR CONNECTIONS AT THE BASE OF SOVENT STACKS ARE 50" FOR 5" STACK, 40" FOR 4" STACK AND 30" FOR 3" STACK. THIS DISTANCE SHALL APPLY TO EACH CONNECTION INCLUDING FIXTURE BRANCHES.
- THE CAST IRON SOVENT SYSTEM SHALL BE MANUFACTURED AND DISTRIBUTED BY CONINE MANUFACTURING CO., INC. OF TYLER, TEXAS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH APPROVED DRAWINGS AND SPECIFICATIONS, AND IN COMPLIANCE WITH CAST IRON SOVENT DESIGN MANUAL NO. 802. SOVENT AERATOR AND DEAEATOR FITTINGS SHALL BE IN COMPLIANCE WITH STANDARD ASME/ANSI B16.45-1987, SPONSORED AND PUBLISHED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
- PIPE GAS REGULATOR VENTS UP THRU ROOF.
- PROVIDE SELF-REGULATING HOT WATER TEMPERATURE MAINTENANCE SYSTEM FOR EACH TEMPERED WATER SYSTEM. FROM TEMPERING STATION, TO THE POINT OF USE. SYSTEM SHALL BE EQUAL TO RAYCHEM HWAT-B FOR 105°F DESIGN TEMP., STRAIGHT LACED AND INSTALLED UNDER PIPE INSULATION. PROVIDE POWER CONN. KIT, TEE CONN. KITS AS REQ'D., END SEAL KIT AND SPLICE KIT AND SPLICE KITS AS REQ'D. INSTALLATION AND TESTING SHALL COMPLY IN ALL RESPECTS W/ MFR.'S INSTALLATION AND TESTING PROCEDURES. SUBMIT TEST REPORT TO ARCHITECT FOR REVIEW. SYSTEM SHALL BE FOR 208V/1Ø SERVICE. PROVIDE RAYCHEM HWAT-R FOR 140°F DESIGN TEMP. W/ INSULATION, ETC., AS DESCRIBED ABOVE FOR GREASE WASTE PIPING WHERE INDICATED ON PLANS.
- MOTORS 1 H.P. & LARGER SHALL BE PREMIUM EFFICIENCY.
- CONTRACTOR SHALL VERIFY SIZE & LOCATION OF UNDERGROUND UTILITIES. COORDINATE WITH OTHER TRADES AND MAKE FINAL CONNECTION.
- PROVIDE WATER HAMMER ARRESTORS EQUAL TO WATTS REGULATOR NO. 15 SERIES. PROVIDE ON HOT & COLD WATER PIPING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS. DEVICES SHALL BE PDI CERTIFIED AND ANSI APPROVED.
- PLUMBER SHALL MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, INCLUDING LAB FAUCETS AND TURRETS. (NOTE: FAUCETS, GAS AND AIR FITTINGS IN WOOD CASEWORK ARE NOT IN DIVISION 15).
- TRAP PRIMERS SHALL BE INSTALLED FOR FLOOR SINKS IN MECHANICAL ROOMS & FLOOR DRAINS IN TOILET ROOMS. EQUAL TO PPP "PRIME RITE" WITH DISTRIBUTION UNIT FOR MULTIPLE F.D.'S. TRAP PRIMER SHALL BE ACCESSIBLE AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. (PROVIDE S.O.V. AT EACH TRAP PRIMER WITH 6"x6" ACCESS DOOR).
- WATER PIPING SHALL BE ROUTED "AROUND" ELECTRICAL ROOMS.
- COORDINATE SEQUENCE OF DEMOLITION W/ GENERAL CONTRACTOR TO PREVENT WATER DAMAGE TO EXISTING AREAS TO REMAIN.
- CONTRACTOR TO NOTIFY ENGINEER OF ANY INCORRECT ASSUMPTIONS PRIOR TO STARTING ANY WORK.
- THE CONTRACTOR SHALL BRING ERRORS AND OMISSIONS WHICH MAY OCCUR IN THE CONTRACT DOCUMENTS TO THE ATTENTION OF THE ARCHITECT VERBALLY AND IN WRITING. WRITTEN INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS, OF WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK.
- SUBMITTED EQUIPMENT WILL BE REVIEWED FOR CONFORMITY OF SCHEDULED INFORMATION INCLUDING, BUT NOT LIMITED TO: QUALITY, PERFORMANCE, PHYSICAL CHARACTERISTICS, OPTIONS, AND OTHER FEATURES AS NOTED. IF THE CONTRACTOR SUBMITS MANUFACTURERS OR MODELS OTHER THAN THE SCHEDULED ITEMS, THE EQUIPMENT WILL BE SUBJECT TO REVIEW AND ACCEPTANCE/REJECTION AT THE ENGINEER'S DISCRETION. OWNER WILL HAVE FINAL AUTHORIZATION OF EQUIPMENT APPROVAL.
- MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS. CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK, VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
- CONTRACTOR SHALL COORDINATE WORK INDICATED WITH PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, AND ARCHITECTURAL DIVISIONS. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR MECHANICAL SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR PLUMBING PIPING, MECHANICAL PIPING, MECHANICAL DUCTWORK, & ELECTRICAL CONDUIT MAINS. VERIFY FIT OF MECHANICAL SYSTEMS PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.

PLUMBING SYMBOLS

	L-1	PLUMBING FIXTURE TAG
		DOMESTIC COLD WATER
		DOMESTIC HOT WATER
		DOMESTIC HOT WATER CIRCULATION
		WASTE/SANITARY SEWER
		VENT
		NATURAL GAS
		STORM
		OVERFLOW STORM
		PIPE UP
		PIPE DOWN
		PIPE TEE DOWN
		PIPE CAP
		PIPE ELBOW
		PIPE REDUCER
		PIPE TEE
		THREE-WAY VALVE
		CHECK VALVE
		BUTTERFLY VALVE
		BALL VALVE
		BALANCING VALVE
		MOTORIZED CONTROL VALVE
		Y-STRAINER
		PRESURE GAGE
		THERMOMETER
		PRESSURE REDUCING VALVE
		DOUBLE CHECK BACKFLOW PREVENTER

GENERAL SYMBOLS

Room name			
	101	ROOM NAME ROOM NUMBER	ROOM TAG
	1 A101	VIEW NUMBER SHEET NAME	ENLARGED VIEW TAG
	1 A101	VIEW NUMBER SHEET NUMBER	SECTION VIEW TAG
	1 / A101	VIEW NUMBER/SHEET NUMBER	VIEW REFERENCE
	#	SHEET NOTE	
		POINT OF CONNECTION TO EXISTING	
ABBREVIATION DESCRIPTION			
AD		ACCESS DOOR	
AF		AIR FOIL	
AFB		ABOVE FINISHED FLOOR	
APD		AIR PRESSURE DROP	
BAS		BUILDING AUTOMATION SYSTEM	
CHWS		CHILLED WATER SUPPLY	
CHWR		CHILLED WATER RETURN	
CV		CONSTANT VOLUME	
CWS		CONDENSER WATER SUPPLY	
CWR		CONDENSER WATER RETURN	
(D)		DEMO'D	
DDC		DIRECT DIGITAL CONTROL	
DIFF		DIFFUSER	
(E)		EXISTING	
EA		EXHAUST AIR	
EMS		ENERGY MANAGEMENT SYSTEM	
ESP		EXTERNAL STATIC PRESSURE	
FC		FORWARD CURVED	
FD		FLOOR DRAIN	
FS		FLOOR SINK	
GR		GRILLE	
GCO		GRADE CLEAN OUT	
HWR		HEATING WATER RETURN	
HWS		HEATING WATER SUPPLY	
MA		MIXED AIR	
(N)		NEW	
NG		NATURAL GAS	
OBD		ON-BOARD DAMPER	
OSA		OUTSIDE AIR	
OST		OVERFLOW STORM	
(R)		RELOCATED	
RA		RETURN AIR	
SA		SUPPLY AIR	
SP		STATIC PRESSURE	
SD		STORM DRAIN	
T-STAT		THERMOSTAT	
TDH		TOTAL DYNAMIC HEAD	
TSP		TOTAL STATIC PRESSURE	
TP		TRAP PRIMER	
VAV		VARIABLE AIR VOLUME	
VFD		VARIABLE FREQUENCY DRIVE	
WC		WATER COLUMN	
WP		WORKING PRESSURE	
WPD		WATER PRESSURE DROP	

SHEET LIST				
Sheet Number	Sheet Name	Current Revision	Current Revision Date	Current Revision Description
P001	Plumbing Cover Sheet			
P002	Plumbing Schedules & Calculations			
P003	Plumbing Specifications			
P004	Plumbing Details and Isometric			
P100	Plumbing Waste and Vent Plan			
P101	Plumbing Water Plan			
P102	Plumbing Roof Plan			

DESIGN CRITERIA	
JURISDICTION:	FAIR OAKS, TX
PLUMBING CODE:	2021 IPC
DOMESTIC WATER TAP: PER 2018 IPC NEW BUILDING HAS A TOTAL OF 12.5 FIXTURE UNITS PRIMARILY FLUSH TANK SYSTEMS. 12.5 FIXTURE UNITS = 16.25 GPM DEVELOPED LENGTH 85 FT (x1.2 FITTING FACTOR) = 102 FT EQUIVALENT LENGTH JCAA ASSUMES THAT THE WATER PRESSURE AVAILABLE AT THE NEW CONSTRUCTION SITE IS 58 PSI. A 1" TAP WITH A 1" DISTRIBUTION WILL BE REQUIRED. FURTHER COORDINATION NEEDS TO OCCUR WITH THE WATER SUPPLIER. PROVIDE NEW REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER.	
SANITARY DRAINAGE: PER 2018 IPC A 4" WASTE LINE SLOPED AT 1/8" PER FOOT WILL BE REQUIRED.	

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STATE OF TEXAS

PATRICK LEONARD

130345

PROFESSIONAL ENGINEER

PROJECT #
21239

DRAWN BY: ATE

CHECKED BY: JCAA

PERMIT SET - 03/13/2023

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△

SHERWIN WILLIAMS

STORE #
XXXX

ADDRESS:
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE:

Plumbing Cover Sheet

SHEET NUMBER:

P001

JCAA CONSULTING ENGINEERS

Job Title Sherwin Williams

Job No. _____

By JLC

Checked JCAA

Proposed							
Fixture	Qty.	CW FU	CW FU 100%	HW FU 100%	Total FU for Domestic Water Tap/Meter Sizing	Waste or Sewer FU	Total Waste or Sewer FU
WC Tank 1.6 GPF	1	5	5	-	5	4	4
WC Flush Valve 1.6 GPF		10	0	-	0	4	0
WC Flushometer 1.6 GPF		2	0	-	0	4	0
Urinal 3/4" Flush Valve, < 1.0 GPF		5	0	-	0	2	0
Urinal 1" Flush Valve, < 1.0 GPF		10	0	-	0	2	0
Urinal Flush Tank, > 1.0 GPF		3	0	-	0	4	0
Lavatory (public)	1	2	1.5	1.5	2	1	1
Lavatory (private)		0.7	0	0	0	1	0
Bar Sink		2	0	0	0	1	0
Kitchen Sink (hotel, restaurant)		4	0	0	0	2	0
Kitchen Sink (apartment)		1.4	0	0	0	2	0
Sink General 1/2" trap		4	0	0	0	2	0
Laundry Tub		3	0	0	0	2	0
Sink Washup each set of faucets		3	0	0	0	2	0
Bedpan Washer Flush Valve w/sink		10	0	-	0	4	0
Service, Mop Sink	1	3	2.25	2.25	3	2	2
Shower (public)		4	0	0	0	2	0
Shower (private)		1.4	0	0	0	2	0
Bath tub (public)		4	0	0	0	2	0
Bath tub (private)		1.4	0	0	0	2	0
EWC or DF	1	0.25	0.25	-	0.25	0.5	0.5
Hose Bibb		2.5	0	-	0	-	-
Hose Bibb (additional)		1	0	-	0	-	-
Clotheswasher (commercial)		4	0	0	0	3	0
Clotheswasher (residential)		1.4	0	0	0	2	0
Hand Sink		2	0	0	0	1	0
Hand Sink Indirect		2	0	0	0	-	-
3-Compartment Sink		4	0	0	0	-	-
Prep Sink		3	0	0	0	-	-
Dishwasher (hotel, restaurant)		6	-	0	0	-	-
Dishwasher (private)		1.4	-	0	0	2	-
Glasswasher (hotel, restaurant)		6	-	0	0	-	-
Coffee Brewer	1	0.25	0.25	-	0.25	-	-
Tea Brewer		0.25	0	-	0	-	-
Carbonator		0.25	0	-	0	-	-
Ice Machine		0.25	0	-	0	-	-
Eye Wash Station	1	2	1.5	1.5	2		
Bathroom Group, ≤ 1.6 GPF (hotel, apartment)		3.6	0	0	0	5	0
Bathroom Group, > 1.6 GPF (hotel, apartment)		8	0	0	0	6	0
2" Floor Sink		-	-	-	-	2	0
3" Floor Sink		-	-	-	-	6	0
4" Floor sink		-	-	-	-	8	0
2" Hub Drain	1	-	-	-	-	2	2
2" Floor Drain	1	-	-	-	-	2	2
Floor Drain-Emergency		-	-	-	-	-	-
Totals			10.75	5.25	12.5		11.5

CONNECTED GAS LOAD SCHEDULE

TAG	BTU INPUT	MBH INPUT	CFH INPUT	NOTES:
RTU-1	200,000	200	200	
RTU-2	200,000	200	200	
TOTAL	400,000	400	400	

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	ROUGH-IN CONNECTION (IN)					NOTES
		HW	CW	V	TRAP	S/W	
L-1	LAVATORY: AMERICAN STANDARD "COMRADE" 0124.024.020 WHITE, WALL HUNG OR EQUAL. FAUCET: BRADLEY CORP S53-315 "AERADA 1200 SERIES CS FAUCET", PLUG IN ADAPTER, CAPACITIVE SENSING ACTIVATION NO SUBSTITUTIONS.	1/2"	1/2"	2"	2"	2"	PROVIDE THERMOSTATIC MIXING VALVE SET TO 110°F (ADJ.) SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION.
US-1	UTILITY SINK: ELKAY B1C24X24X STAINLESS STEEL, FAUCET: CHICAGO FAUCET 897 WITH WALL BRACE, PAIL HOOK, AND MALE HOSE THREADED OUTLET.	3/4"	3/4"	2"	3"	3"	ELEVATED ON METAL LEGS. PROVIDE WITH ALL ACCESSORIES FOR A COMPLETE SYSTEM. INSTALL PER MANUFACTURER GUIDELINES.
WC-1	WATER CLOSET: COMMERCIAL HIGH EFFICIENCY, TOP SPUD, FLOOR MOUNTED, ELONGATED BOWL, ONE PIECE, WHITE, WITH HIGH EFFICIENCY DIAPHRAGM FLUSH VALVE, MANUAL, MAX 1.28GPF, NON-HOLD OPEN HANDLE, TRIP LEVER INSTALLED ON WIDE SIDE OF STALL	-	1/2"	2"	-	4"	SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION.
EW-1	EYE WASH: BRADLEY S19224DC WALL MOUNTED WITH EMERGENCY MIXING VALVE BRADLEY S19-2000EFX OR EQUAL	1/2"	1/2"	-	-	-	INSTALL PER MANUFACTURER GUIDELINES. ROUTE DRAIN TO NEARBY HUB DRAIN.
DF-1	DRINKING FOUNTAIN: ELKAY WALL MOUNT SOFT-SIDES B/L LEVEL WITH WALL PLATE, NON-REFRIGERATED, NON-FILTERED, STAINLESS, INSTALLED BARRIER FREE, ADAAG COMPLIANT OR EQUAL.	-	1/2"	2"	2"	2"	
HD-1	HUB DRAIN: JR SMITH 9854 GENERAL PURPOSE STAINLESS STEEL HUB DRAIN OR EQUAL.	-	-	2"	2"	2"	SEE DETAIL.
FD-1	FLOOR DRAIN: ZURN #Z-550-P OR EQUAL. CAST IRON FLOOR DRAIN WITH DOUBLE DRAINAGE FLANGE AND WEEPHOLES WHERE WATERPROOF MEMBRANES OCCUR. MEDIUM DUTY CAST IRON STRAINER, AND 1/2" TRAP PRIMER CONNECTION. PROVIDE P-TRAP OF MATERIAL SPECIFIED FOR DRAINAGE PIPING AND SIZE INDICATED ON DRAWINGS. TRAP PRIMER: WATTS LFTF300 OR EQUAL.	-	-	-	2"	2"	SET DRAIN FLUSH AND LEVEL WITH FINISHED SURFACES. COORDINATE PLACEMENT WITH OTHER TRADES. COVER DRAIN DURING CONSTRUCTION TO PREVENT FOREIGN OBSTACLES FROM ENTERING DRAIN. FLOOR DRAIN CONNECTION SIZE AS NOTED ON PLANS.

PLUMBING EQUIPMENT SCHEDULE

TAG	DESCRIPTION
WH-1	AO SMITH MODEL DEL-20-4 ELECTRIC WATER HEATER, 20 GALLON STORAGE CAPACITY WITH 4 KW SINGLE HEATING ELEMENT, HEATING ELEMENT POWERED AT 208 V / 3 PH. PROVIDE 1/2" DRAIN PAN AND ROUTE 3/4" DRAIN LINE TO SERVICE SINK BELOW.
ET-1	WATTS PLT-5 EXPANSION TANK, 2.1 GALLON VOLUME, 1.48 GALLON ACCEPTANCE.
HCP-1	BELL AND GOSSETT ECOCIRC SERIES RECIRCULATION PUMP, MODEL: E3-4V/BTXRZ, 120 V, 60 HZ, 1 PH, 5-28 WATTS POWER. LEAD FREE BRASS CONSTRUCTION. 1/2" THREADED CONNECTION.

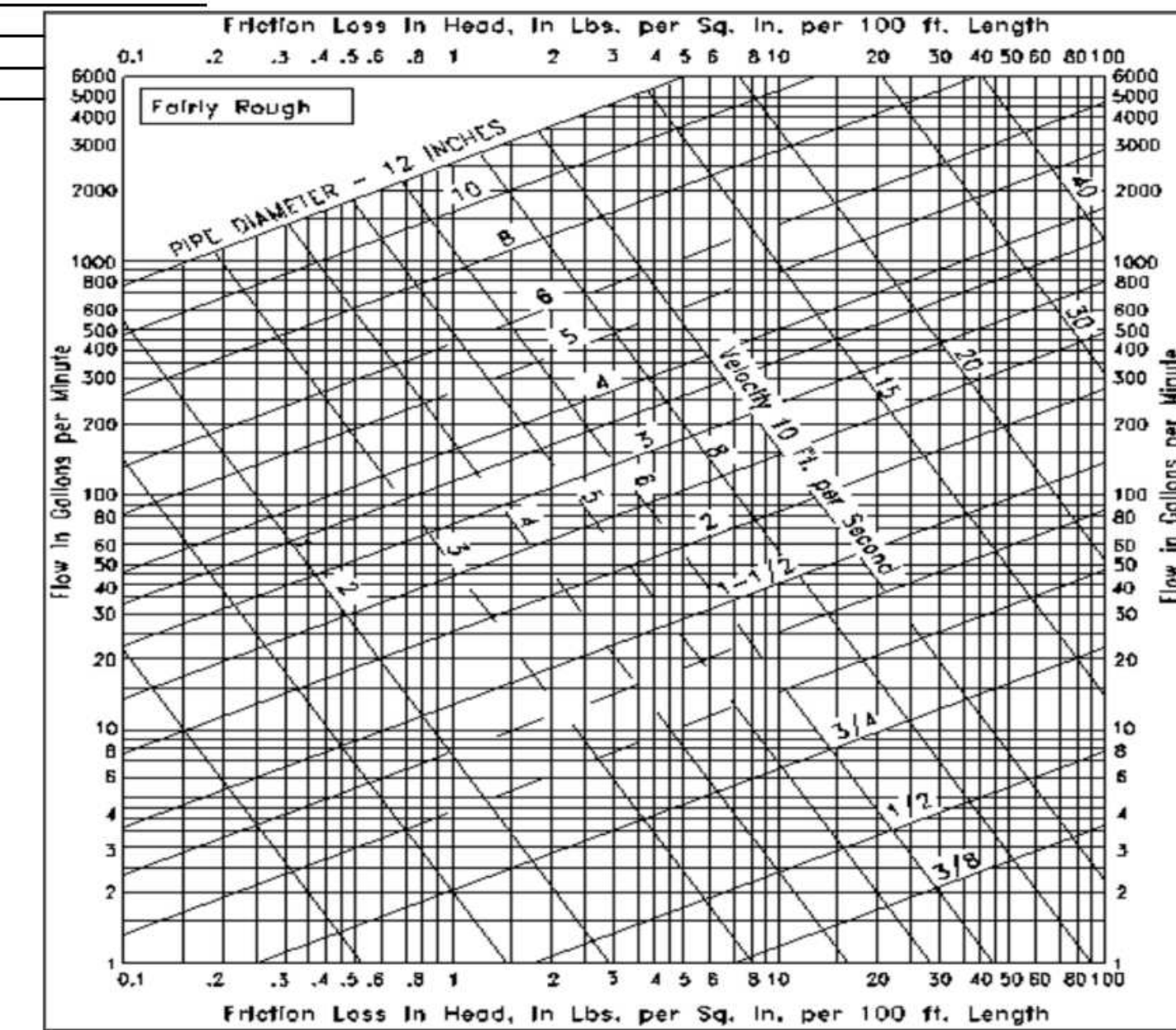
JCAA CONSULTING ENGINEERS

Job Title Sherwin Williams

Job No. _____

By JLC

Checked JCAA



Static Head (SH) = 15 FT. x 0.43 = 6.45 PSI
 Pressure Available (PA) = 58 Service Press. - (6.45 (S.H.) + 15 Req'd. Press.) = 18.55 PSI(PA)
 Developed Length Longest Run = 100 FT.
 20 % Fitting Length = 20 FT.
 Total Equivalent Length (TEL) = 120 FT.
 Allowable Friction Loss/100ft. = 100 x 18.55 PSI(PA) = 15.5 PSI/100FT.
 120 Ft.(TEL) = 35.70875 FT/100FT

Pipe Size	Max. Flow (GPM)	Flush Tank F.U.	Flush Valve F.U.	Velocity FPS
1/2"	5	9.4		6.96
3/4"	13.6	16.5		8.91
1"	27.5	22		10.75
1 1/4"	47.8	28		12.24
1 1/2"	76	36.5		13.77
2"	158	56		16.53

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PROJECT # 22.033
 DRAWN BY: NP CHECKED BY: JCAA

PERMIT SET - 03/13/2023

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- △

SHERWIN WILLIAMS

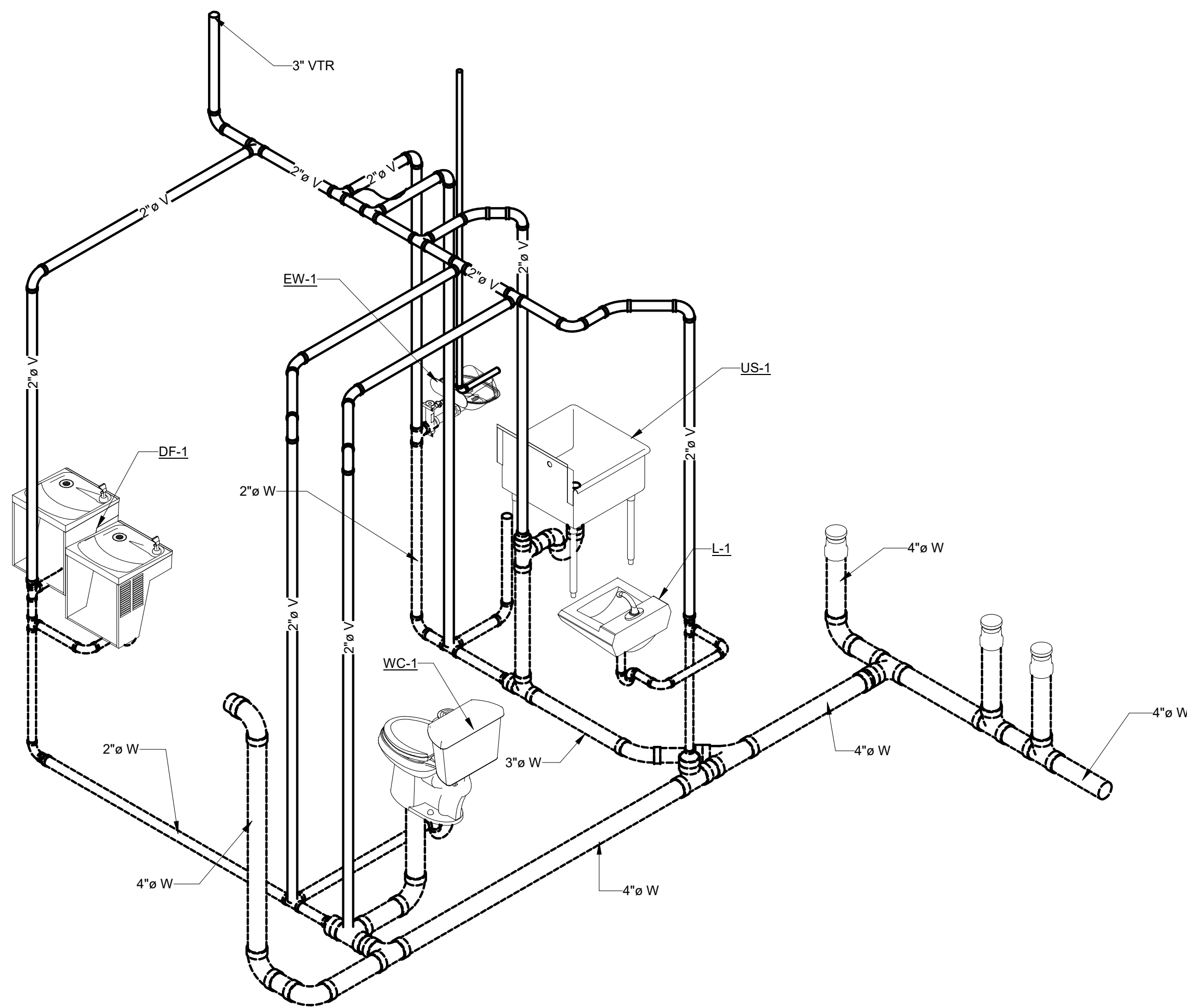
STORE # XXXX
 ADDRESS: 9091 FAIR OAKS PKWY.
 FAIR OAKS RANCH, TX
 78015

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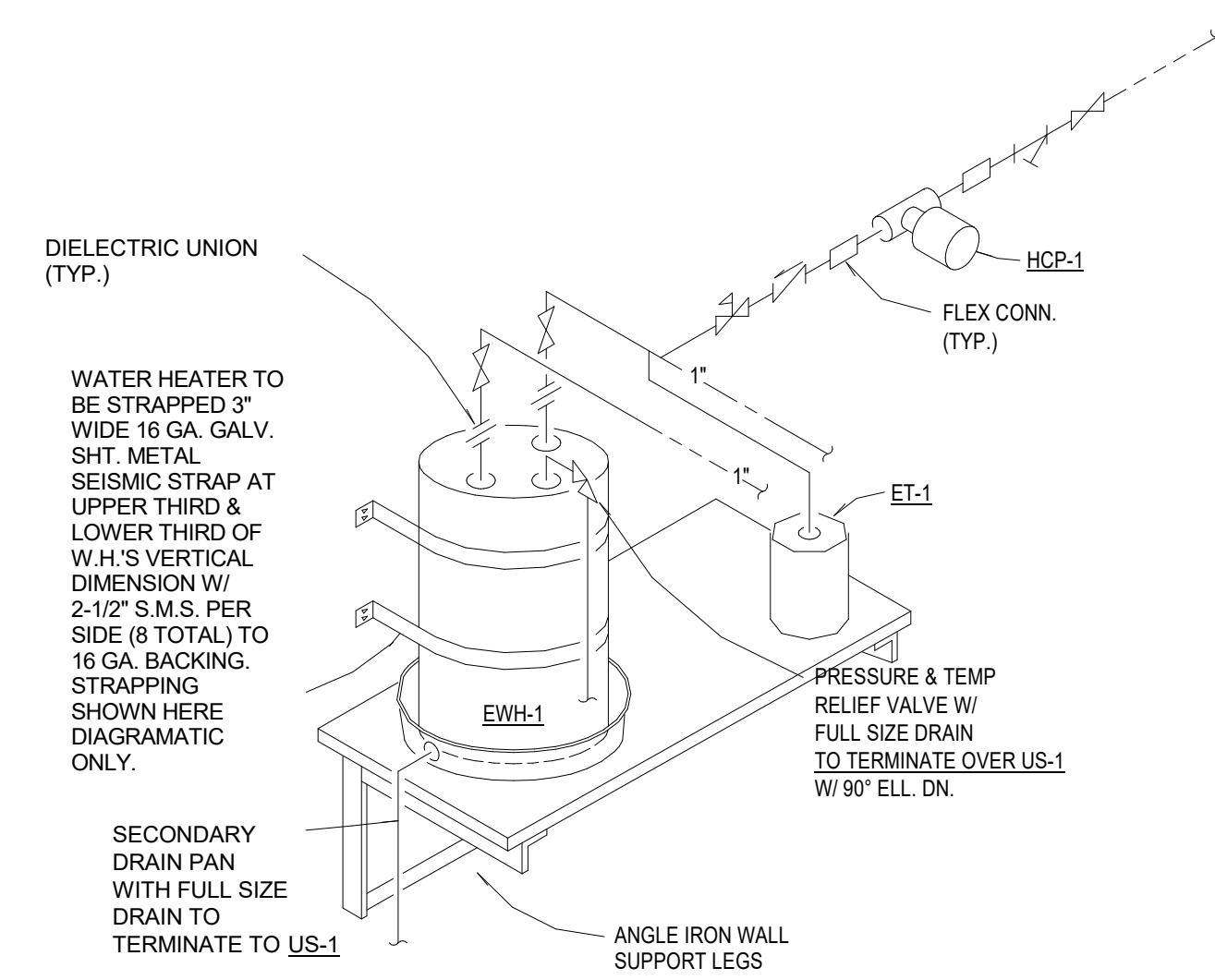
Plumbing Schedules & Calculations

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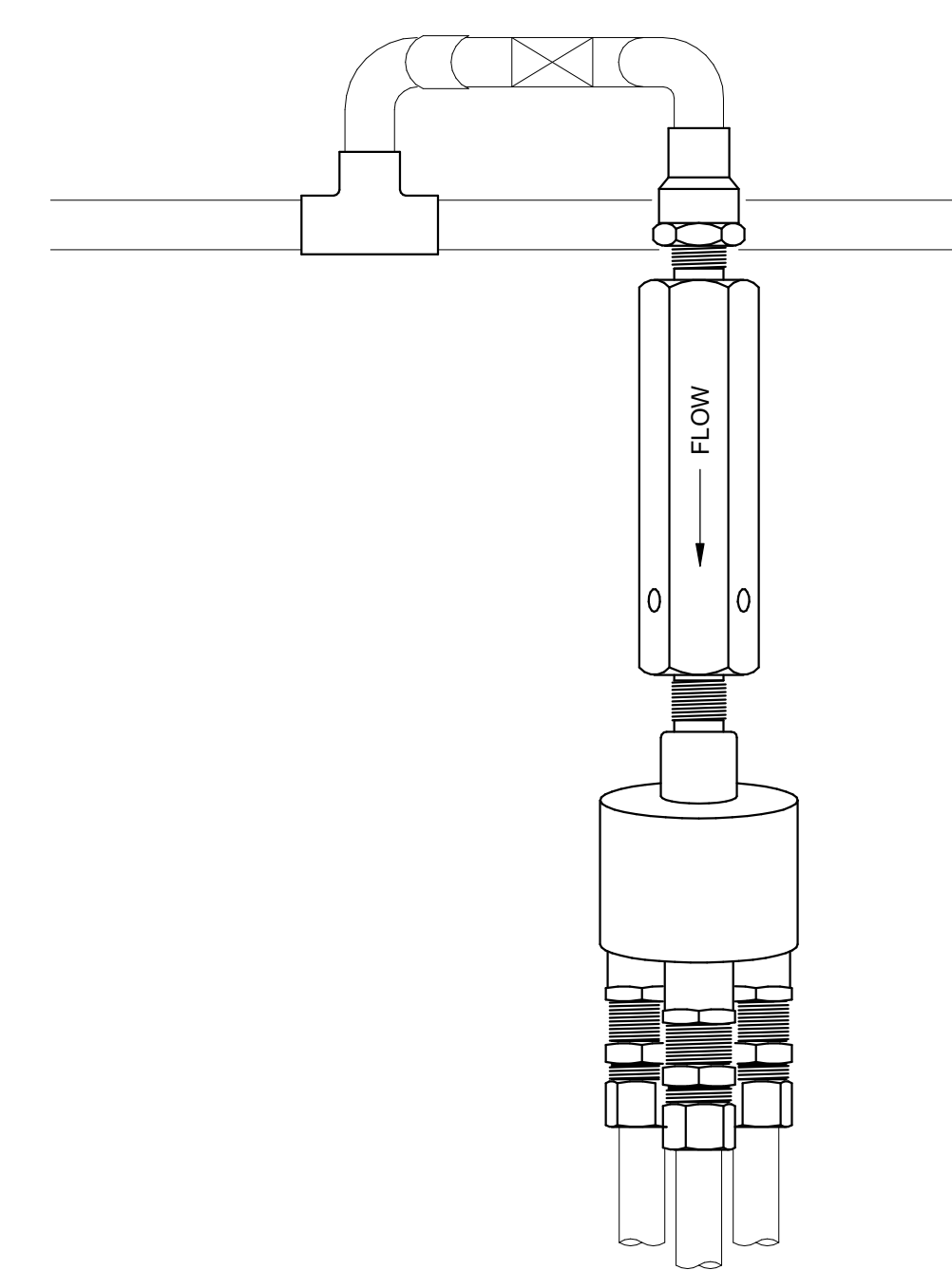
P002



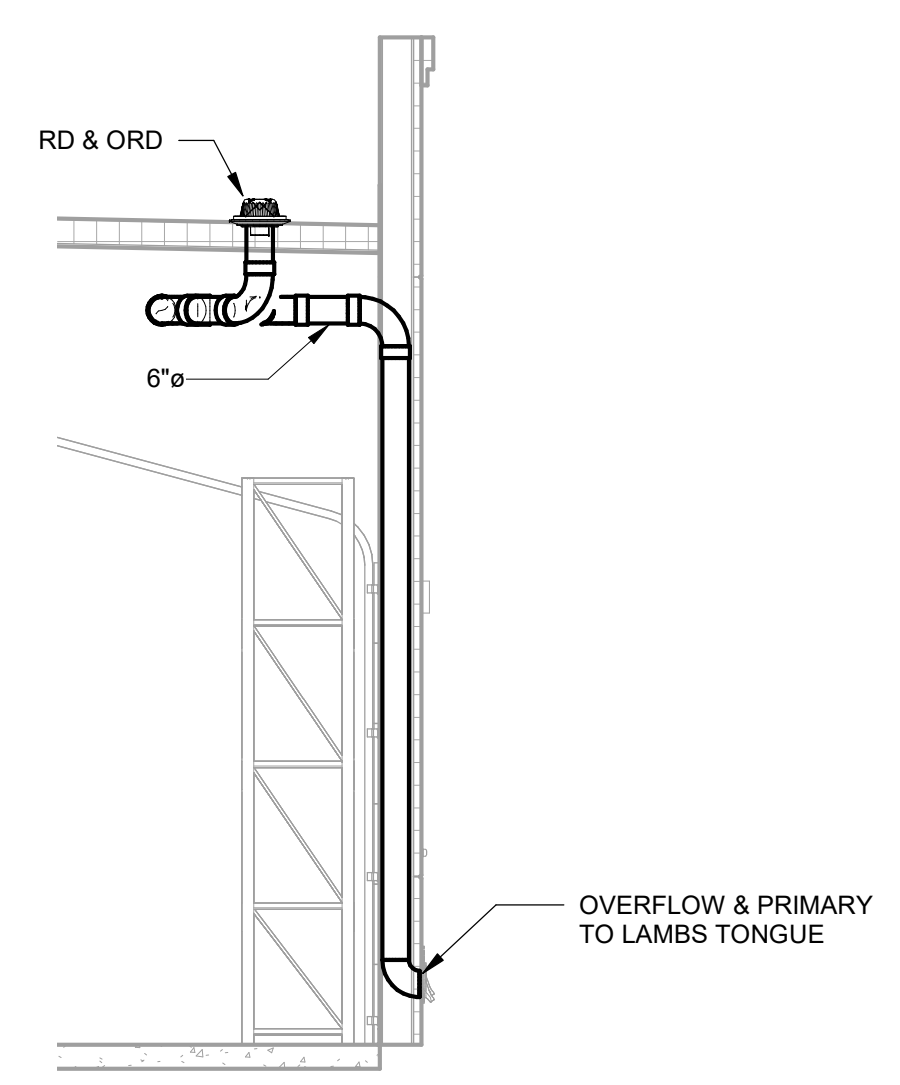
6 PLUMBING WASTE AND VENT ISOMETRIC NOT TO SCALE



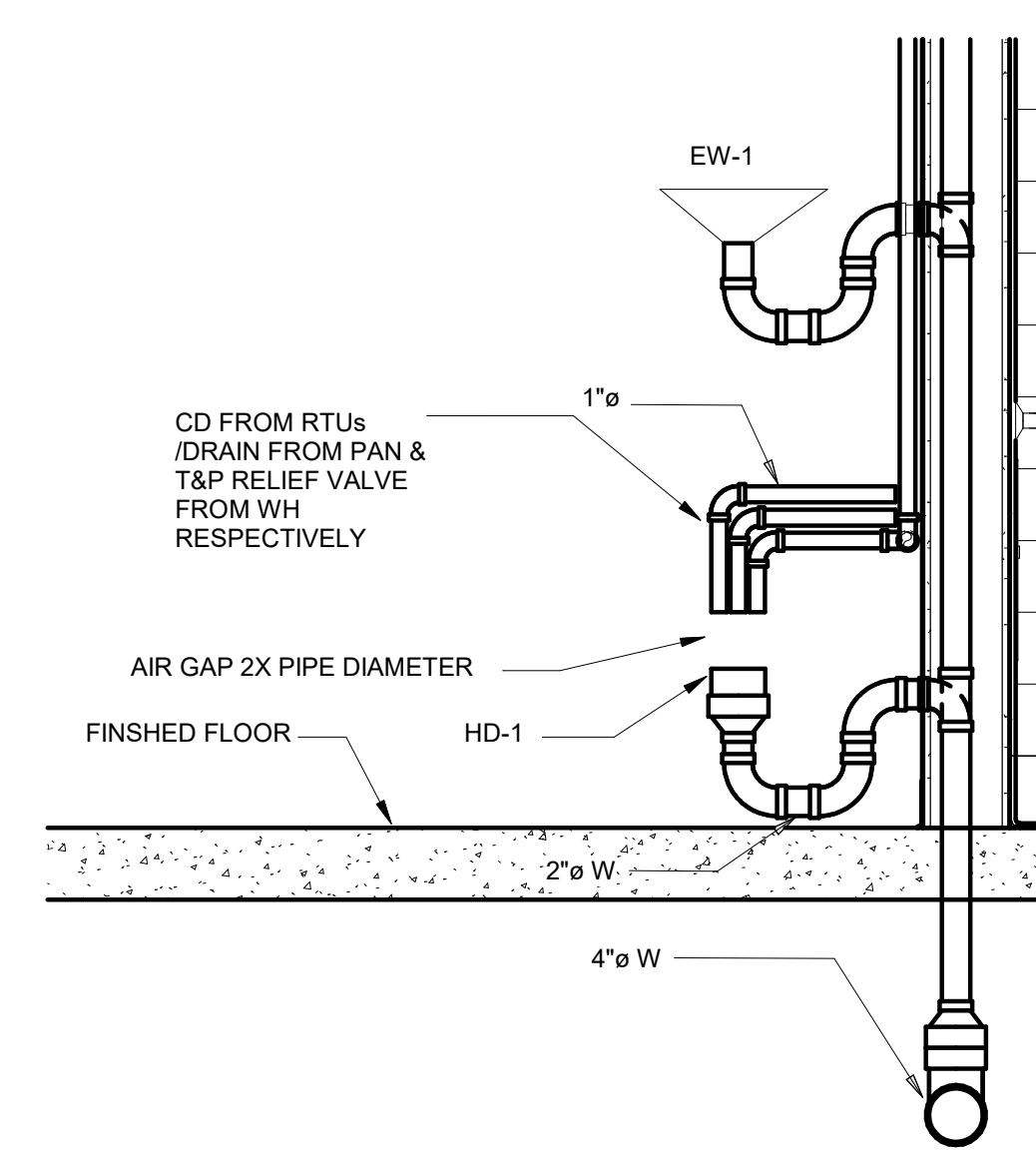
2 WATER HEATER DETAIL NOT TO SCALE



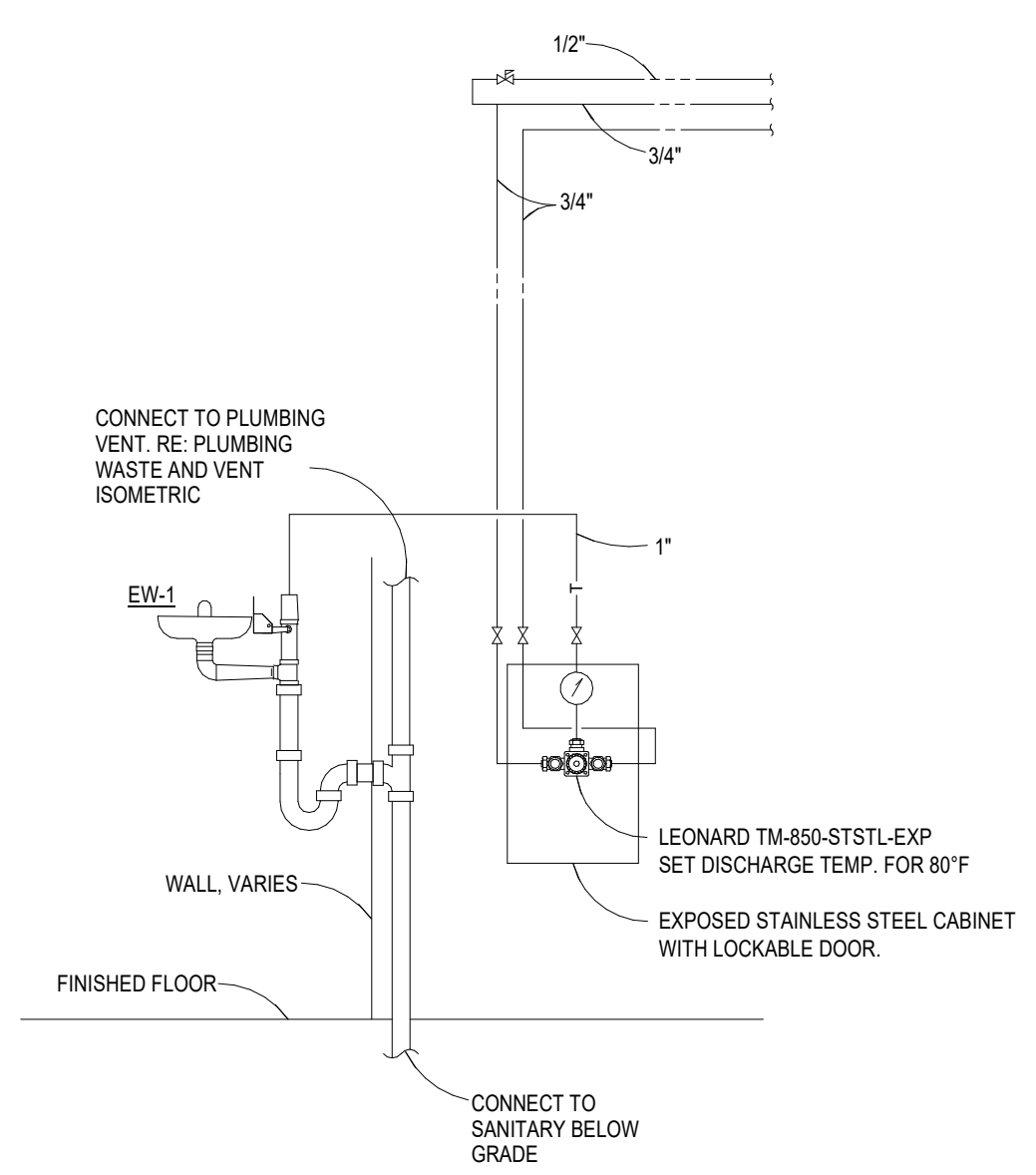
1 TRAP PRIMER DETAIL NOT TO SCALE



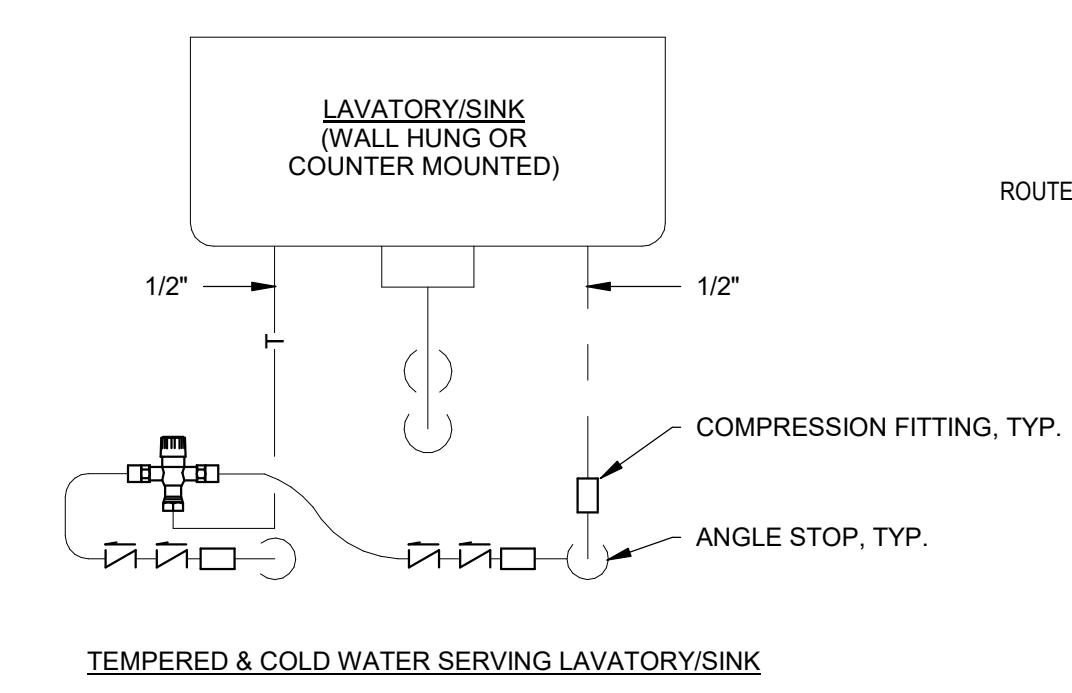
7 SCUPPER DETAIL NOT TO SCALE



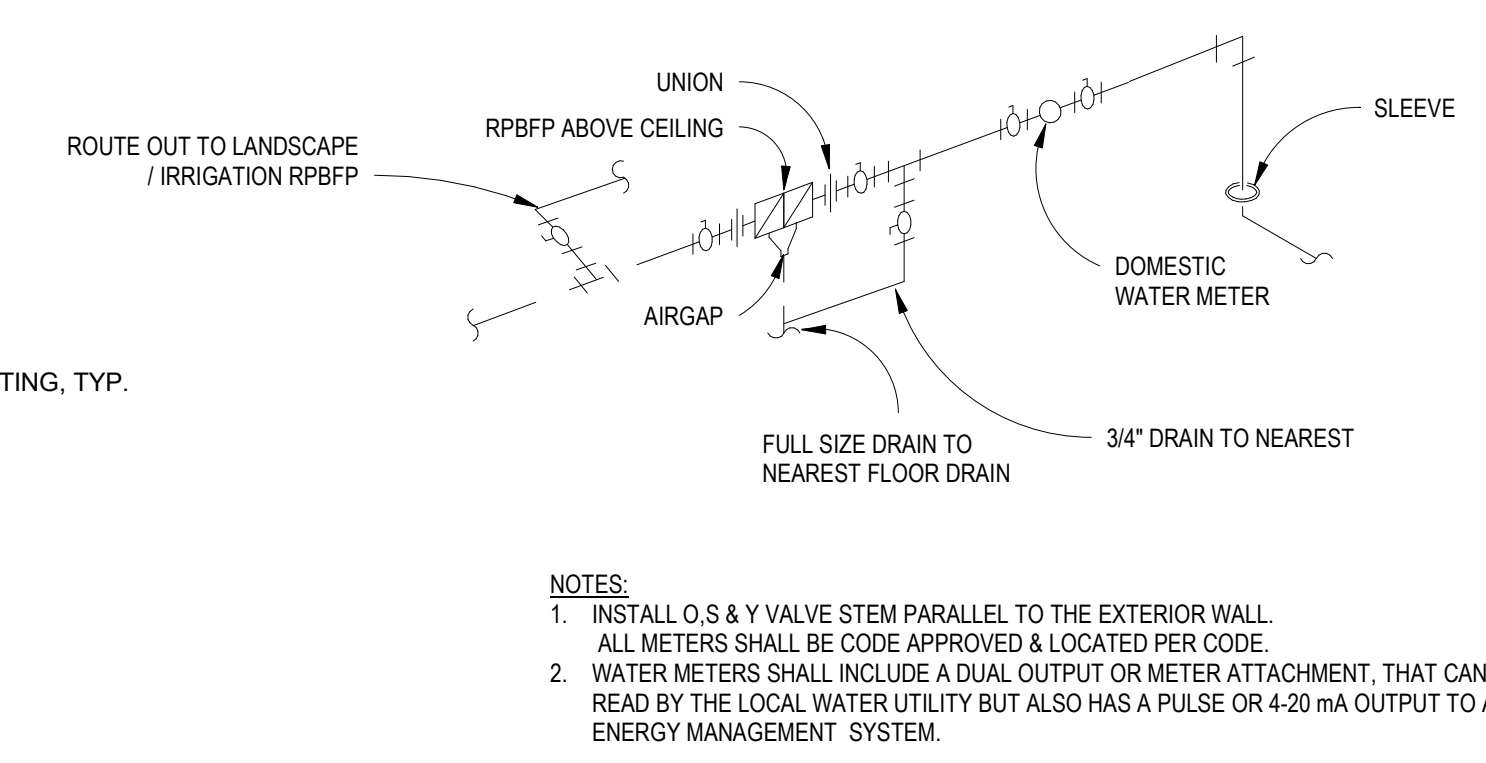
8 HUB DRAIN DETAIL NOT TO SCALE



5 EYEWASH STATION DETAIL NOT TO SCALE



4 TEMPERING VALVE DETAIL NOT TO SCALE



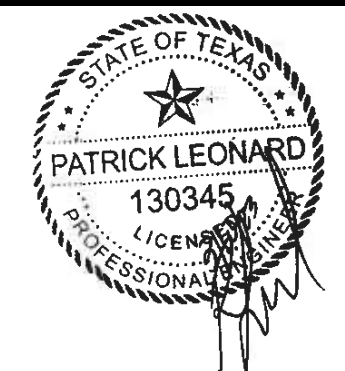
NOTES:
 1. INSTALL O.S. & Y VALVE STEM PARALLEL TO THE EXTERIOR WALL. ALL METERS SHALL BE CODE APPROVED & LOCATED PER CODE.
 2. WATER METERS SHALL INCLUDE A DUAL OUTPUT OR METER ATTACHMENT, THAT CAN READ BY THE LOCAL WATER UTILITY BUT ALSO HAS A PULSE OR 4-20 mA OUTPUT TO AN ENERGY MANAGEMENT SYSTEM.

3 WATER ENTRY DETAIL NOT TO SCALE

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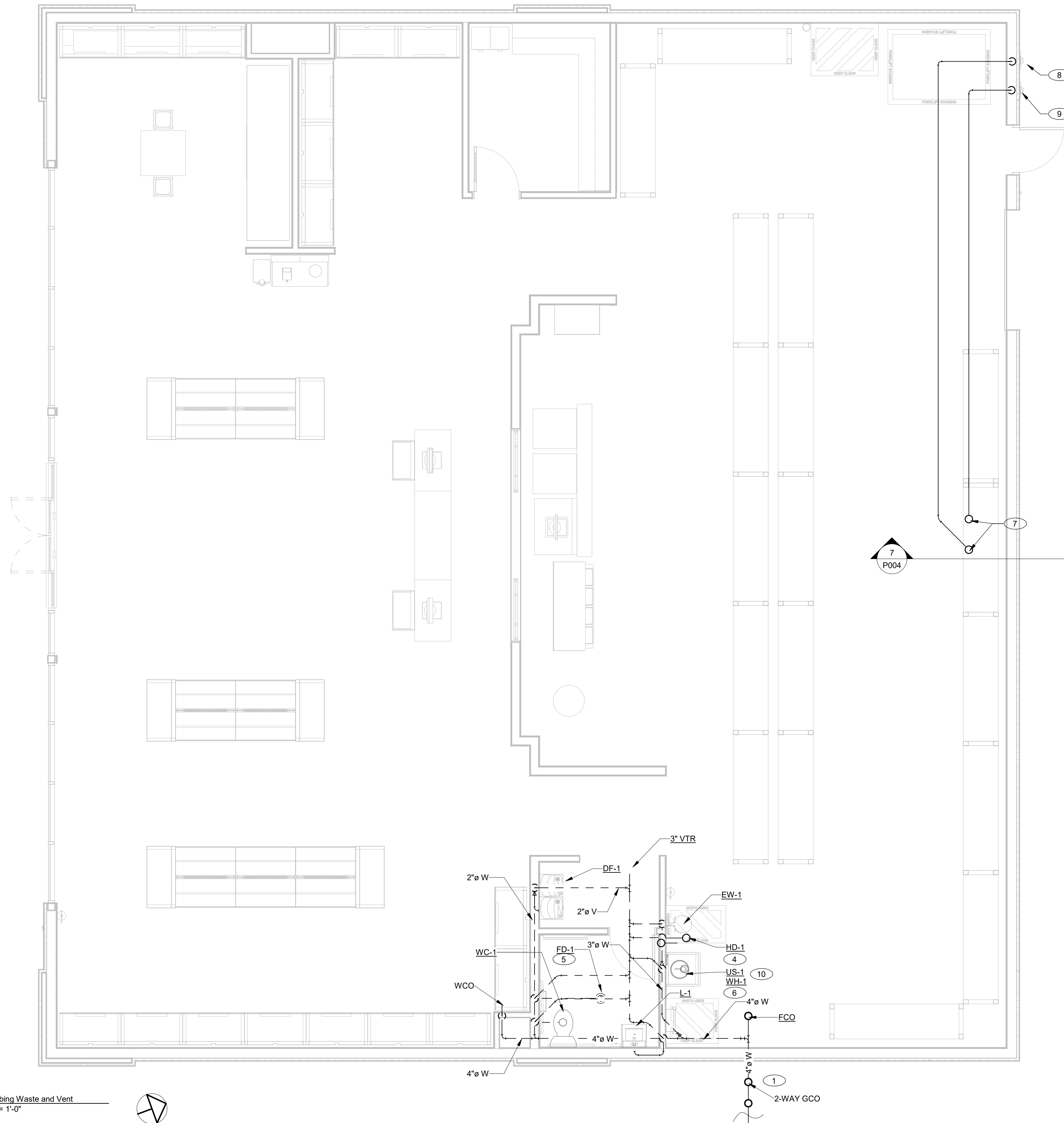
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SHERWIN WILLIAMS

STORE #
 XXXX
 ADDRESS:
 9091 FAIR OAKS PKWY.
 FAIR OAKS RANCH, TX
 78015

SHEET TITLE:
 Plumbing Details and Isometric

SHEET NUMBER:
 P004



1 Plumbing Waste and Vent
1/4" = 1'-0"



GENERAL NOTES:

1. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
2. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH MECHANICAL, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, CIVIL, AND ARCHITECTURAL DIVISIONS. CONTRACTOR SHALL VERIFY SIZE & LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK, COORDINATE WITH OTHER TRADES AND MAKE FINAL CONNECTION. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR PLUMBING SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR FIRE SPRINKLER, PLUMBING PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUTS BEFORE CONCRETE IS POURED OR BLOCK SET.
3. PROVIDE ACCESSIBLE CLEANOUTS AS REQUIRED PER CODE.
4. ALL WATER SUPPLY LINES LESS THAN 1" IN DIAMETER SHALL BE COPPER OR COPPER ALLOY. USE ONLY CAST AND WROUGHT COPPER AND COPPER ALLOY PRESS-CONNECT PRESSURE FITTINGS: ASME B16.51. DO NOT USE SOLDER OR BRAZED CONNECTIONS. PRESS-CONNECT JOINTS: PRESS-CONNECT JOINTS SHALL BE MADE IN ACCORDANCE WITH THE FITTING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS USING A PRESS-CONNECT TOOL AND JAWS APPROVED FOR USE FOR THE MANUFACTURER'S SPECIFIC FITTING CONFIGURATION. COPPER ALLOY TUBE SHALL BE MECHANICALLY CLEANED AND REAMED PRIOR TO JOINING TO REMOVE ALL BURRS (INTERIOR AND EXTERIOR) AND RESTORE FULL INSIDE DIAMETER AND A SMOOTH, CHAMFERED EXTERIOR SURFACE. FITTINGS SHALL HAVE EPDM SEALING ELEMENTS.

SHEET NOTES:

1. 4" SANITARY WASTE LINE OUT OF BUILDING. SEE CIVIL FOR CONTINUATION. PC TO VERIFY EXACT SIZE, LOCATION AND INVERT ELEVATION PRIOR TO WORK. CONTACT ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
2. ALL VENT PIPING FROM ALL FIXTURES ARE 2" DIAMETER UNLESS SPECIFIED OTHERWISE.
3. ROUTE 3" SANITARY VENT UP THROUGH ROOF. MAINTAIN A MINIMUM CLEARANCE OF 10' FROM NEAREST AIR INTAKE. VERIFY EXACT LOCATION IN FIELD.
4. 2" HUB DRAIN WITH TRAP PRIMER LINE CONNECTED TO LAVATORY.
5. INSTALL 2" FLOOR DRAIN IN BATHROOM FLOOR AS SHOWN.
6. ROUTE TEMPERATURE AND PRESSURE RELIEF VALVE DOWN AND INDIRECTLY DRAIN TO UTILITY SINK BELOW.
7. 6" SD UP TO ROOF DRAIN. REFER TO ARCH PLANS FOR ROOF DRAIN SPECIFICATIONS.
8. TERMINATE 6" SD FROM OVERFLOW TO WALL. PIPE SHOULD PENETRATE TO EXTERIOR 6" AFF, THEN TERMINATE INTO LAMBS TONGUE.
9. TERMINATE 6" SD FROM PRIMARY TO WALL. PIPE SHOULD PENETRATE TO EXTERIOR 6" AFF, THEN TERMINATE INTO LAMBS TONGUE. REFER TO DETAIL 7/P004.
10. ROUTE RELIEF FROM 1" RBPB IN CEILING SPACE TERMINATE OVER US-1 WITH AIR GAP.

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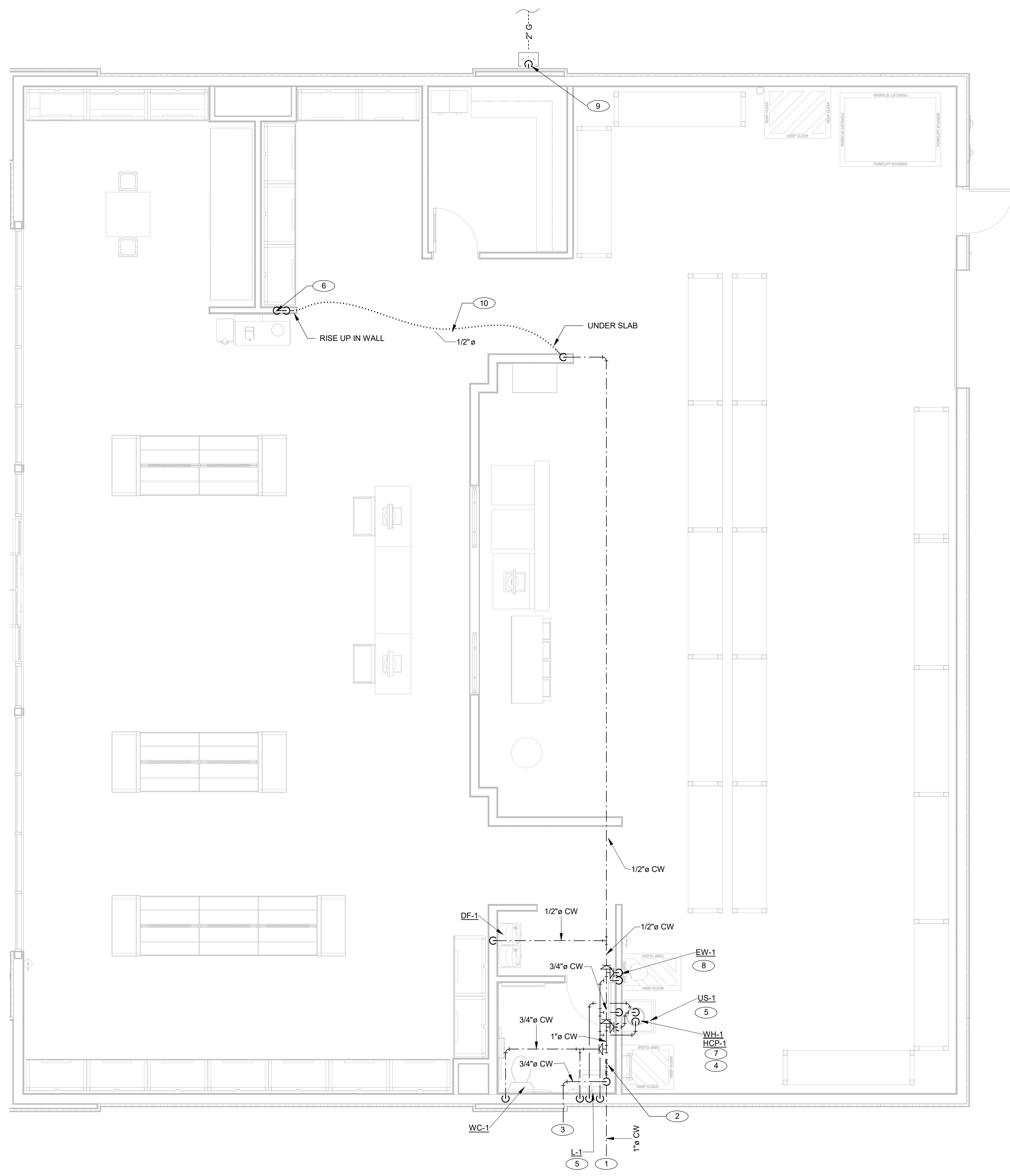
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SHERWIN WILLIAMS

STORE #
XXXX
ADDRESS:
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE:
Plumbing Waste and
Vent Plan

SHEET NUMBER:
P100



GENERAL NOTES:

1. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
2. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH MECHANICAL, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, CIVIL, AND ARCHITECTURAL DIVISIONS. CONTRACTOR SHALL VERIFY SIZE & LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. COORDINATE WITH OTHER TRADES AND MAKE FINAL CONNECTION. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR PLUMBING SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR FIRE SPRINKLER. PLUMBING PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUTS BEFORE CONCRETE IS POURED OR BLOCK SET.
3. PROVIDE ACCESSIBLE SHUT-OFF VALVES ON ALL NEW FIXTURE HW & CW BRANCHES.
4. ALL WATER SUPPLY LINES LESS THAN 1" IN DIAMETER SHALL BE COPPER OR COPPER ALLOY. USE ONLY CAST AND WROUGHT COPPER AND COPPER ALLOY PRESS-CONNECT PRESSURE FITTINGS: ASME B16.51, DO NOT USE SOLDER OR BRAZED CONNECTIONS. PRESS-CONNECT JOINTS: PRESS-CONNECT JOINTS SHALL BE MADE IN ACCORDANCE WITH THE FITTING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS USING A PRESS-CONNECT TOOL AND JAWS APPROVED FOR USE FOR THE MANUFACTURER'S SPECIFIC FITTING CONFIGURATION. COPPER ALLOY TUBE SHALL BE MECHANICALLY CLEANED AND REAMED PRIOR TO JOINING TO REMOVE ALL BURRS (INTERIOR AND EXTERIOR) AND RESTORE FULL INSIDE DIAMETER AND A SMOOTH, CHAMFERED EXTERIOR SURFACE. FITTINGS SHALL HAVE EPDM SEALING ELEMENTS.
5. PROVIDE TRAP PRIMERS FOR ALL FLOOR AND HUB DRAINS.

SHEET NOTES:

1. 1" DOMESTIC CW PIPE FROM OUTSIDE OF BUILDING. SEE CIVIL FOR CONTINUATION.
2. FURNISH AND INSTALL 1" RPBFP & METER FOR DOMESTIC WATER SERVICE. ROUTE RELIEF PIPING TO DISCHARGE INDIRECTLY IN TO SERVICE SINK DRAIN. SEE DOMESTIC WATER ENTRY DETAIL FOR MORE INFORMATION.
3. 3/4" IRRIGATION WATER LINE FROM WATER ENTRY OUT TO LANDSCAPE/IRRIGATION BFP AND MANIFOLD. TAP LINE AFTER METER AND RPBFP. ENSURE EXTERIOR RPBFP IS FURNISHED ON THE EXTERIOR BY LANDSCAPE INSTALLER.
4. MOUNT WATER HEATER ABOVE UTILITY SINK ON PLATFORM.
5. PROVIDE AND INSTALL ANTI-SCALD MIXING VALVE AT LAVATORY AND UTILITY SINK TO TEMPER HOT WATER FOR PUBLIC USE. SET VALVE TO DISCHARGE A MAXIMUM OF 110°F.
6. COLD WATER CONNECTION TO COFFEE MAKER. PROVIDE SHUTOFF VALVE AND BACKFLOW PREVENTER IN WALL IN A RECESSED VALVE BOX PRIOR TO CONNECTION TO EQUIPMENT.
7. HOT WATER RECIRCULATION PUMP INSTALLED ON 1/2" HOT WATER RETURN. SET HOT WATER RECIRCULATION PUMP TO 1 GPM.
8. ROUTE CW/HW PIPING DOWN TO EYEWASH MIXING VALVE. REFER TO DETAIL 5 ON P004.
9. 2" 7" WC GAS UP ALONG WALL, OFFSET ONTO ROOF.
10. ROUTE 1/2" UNDER SLAB TO PREVENT VISIBILITY IN SALES FLOOR. ROUTE UNDER SLAB BELOW FROST DEPTH TO ENSURE FREEZE PROTECTION NO JOINTS - PEX TYPE A.

1 Plumbing Water Plan
1/4" = 1'-0"

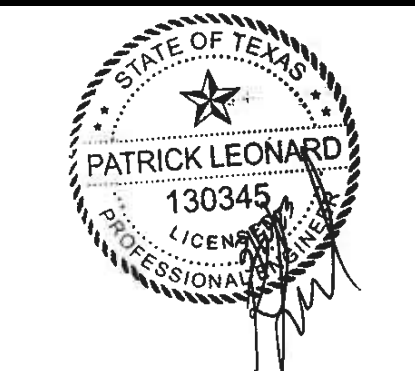
LINGLE DESIGN GROUP, INC.

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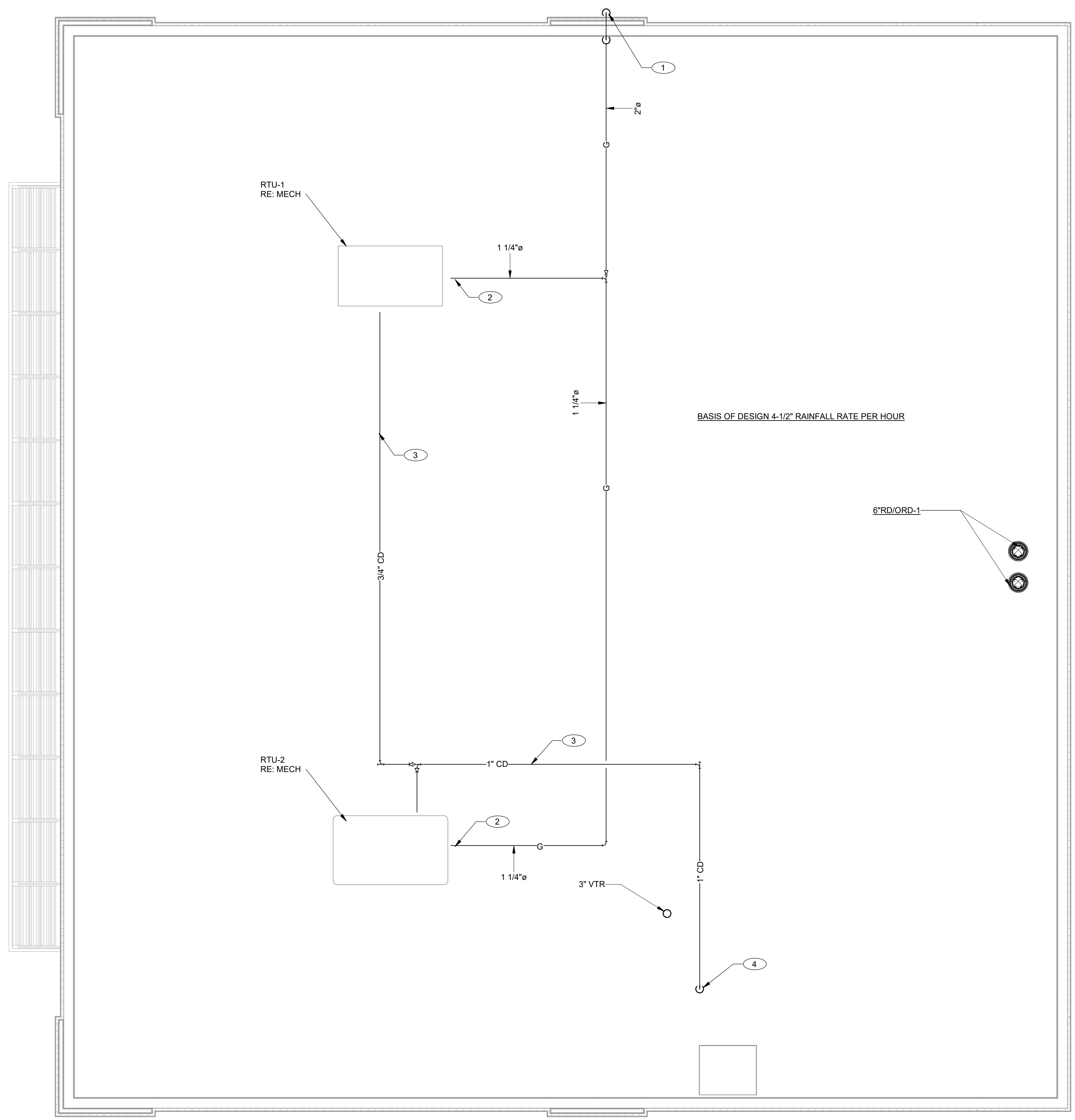
STORE #
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 ADDRESS:
 9091 FAIR OAKS PKWY.
 FAIR OAKS RANCH, TX
 78015

SHEET TITLE:
 Plumbing Water Plan

SHEET NUMBER:
P101

SHEET NOTES:

1. 2" 7" WC GAS DOWN TO 2" GAS METER
2. TERMINATE GAS CONNECTION WITH UNION, SHUTOFF, AND DIRTLEG. TRANSITION TO CONNECTION SIZES AS REQUIRED.
3. CONDENSATE PIPELINE ROUTE ON ROOF AS SHOWN
4. CONDESATE DOWN THROUGH ROOF TO HUB DRAIN BELOW.

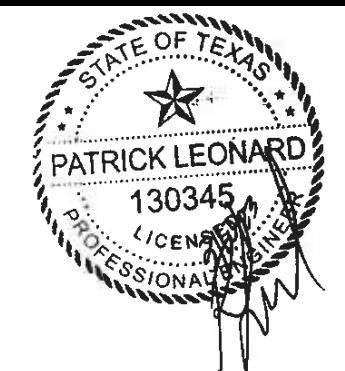


1 Plumbing Roof
NOT TO SCALE

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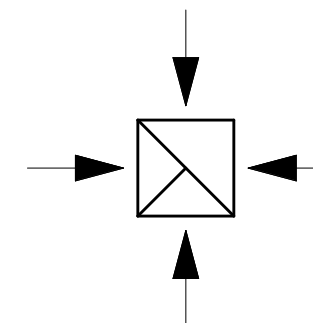
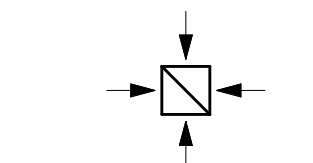
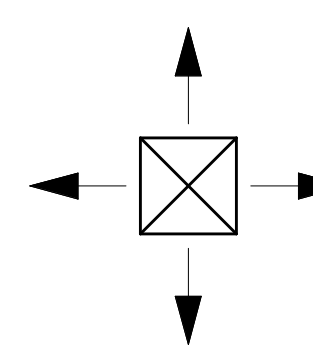
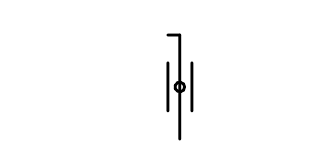
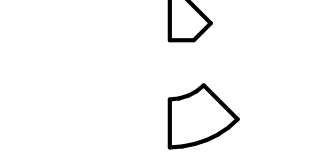
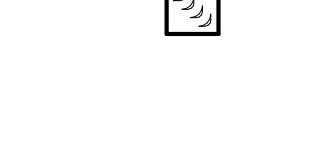



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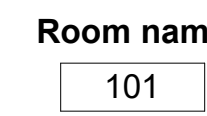
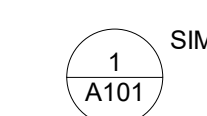

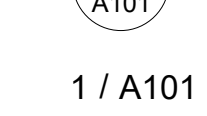


SHEET TITLE:
Plumbing Roof Plan

SHEET NUMBER:
P102

MECHANICAL SYMBOLS

	EXHAUST DIFFUSER, GRILLE OR REGISTER	12"x12"	RECTANGULAR DUCT ANNOTATION
	RETURN DIFFUSER, GRILLE OR REGISTER	12"x12"	FLAT OVAL DUCT ANNOTATION
	SUPPLY DIFFUSER, GRILLE OR REGISTER. SEE GRILLE, REGISTER AND DIFFUSER SCHEDULE FOR THROW DIRECTION(S).	12"Ø	ROUND DUCT ANNOTATION
	FIRE OR FIRE/SMOKE DAMPER. SEE DRAWINGS FOR ADDITIONAL INFORMATION.	VAV-1	MECHANICAL EQUIPMENT TAG
	MANUAL BALANCING DAMPER	1i 200 CFM 8"Ø, TYP. (3)	GRILLE, REGISTER, OR DIFFUSER TAG
	MITERED DUCT ELBOW	MARK AIR FLOW NECK SIZE, TYPICAL COUNT	
	RADIUSED DUCT ELBOW	(TS)	TEMPERATURE SENSOR
	MITERED ELBOW WITH SINGLE THICKNESS TURNING VANES	(T)	THERMOSTAT
	MITERED ELBOW WITH DOUBLE THICKNESS TURNING VANES	(CO)	CARBON MONOXIDE SENSOR
		(CO2)	CARBON DIOXIDE SENSOR
		(OC)	OCCUPANCY SENSOR
		(S)	OTHE SENSOR - SEE PLANS FOR DESCRIPTION
		-----	CONTROL WIRE/CONNECTION
		HWS	HEATING WATER SUPPLY
		HWR	HEATING WATER RETURN
		CHWS	CHILLED WATER SUPPLY
		CHWR	CHILLED WATER RETURN
		CWS	CONDENSER WATER SUPPLY
		CWR	CONDENSER WATER RETURN
		(D)	PIPE UP
		(DDC)	PIPE DOWN
		(DIFF)	PIPE TEE DOWN
		(E)	PIPE CAP
		(EA)	PIPE ELBOW
		(EMS)	PIPE REDUCER
		(ESP)	PIPE TEE
		(FC)	THREE-WAY VALVE
		(FD)	BUTTERFLY VALVE
		(FS)	BALL VALVE
		(GR)	PLUG VALVE
		(HWR)	BALANCING VALVE
		(HWS)	MOTORIZED CONTROL VALVE
		(MA)	Y-STRAINER
		(N)	PRESURE GAGE
		(NG)	THERMOMETER
		(OBD)	
		(OSA)	
		(OST)	
		(R)	
		(RA)	
		(SA)	
		(SP)	
		(ST)	
		(T-STAT)	
		(TDH)	
		(TSP)	
		(VAV)	
		(VFD)	
		(WC)	
		(WP)	
		(WPD)	

GENERAL SYMBOLS

	Room name	ROOM NAME ROOM NUMBER	ROOM TAG
		VIEW NUMBER SHEET NAME	ENLARGED VIEW TAG
		VIEW NUMBER SHEET NUMBER	SECTION VIEW TAG
		VIEW NUMBER/SHEET NUMBER	VIEW REFERENCE
		#	SHEET NOTE
			POINT OF CONNECTION TO EXISTING

ABBREVIATION DESCRIPTION

AD	ACCESS DOOR
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CV	CONSTANT VOLUME
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
(D)	DEMO'D
DDC	DIRECT DIGITAL CONTROL
DIFF	DIFFUSER
(E)	EXISTING
EA	EXHAUST AIR
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
FC	FORWARD CURVED
FD	FLOOR DRAIN
FS	FLOOR SINK
GR	GRILLE
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
MA	MIXED AIR
(N)	NEW
NG	NATURAL GAS
OBD	ON-BOARD DAMPER
OSA	OUTSIDE AIR
OST	OVERFLOW STORM
(R)	RELOCATED
RA	RETURN AIR
SA	SUPPLY AIR
SP	STATIC PRESSURE
ST	STORM
T-STAT	THERMOSTAT
TDH	TOTAL DYNAMIC HEAD
TSP	TOTAL STATIC PRESSURE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
WC	WATER COLUMN
WP	WORKING PRESSURE
WPD	WATER PRESSURE DROP

CODES & DESIGN CRITERIA

JURISDICTION:	FAIR OAKS, TEXAS
MECHANICAL CODE:	2021 IMC
ENERGY CODE:	2021 IECC
LOCAL AMMENDMENTS:	AS AMMENDED IN 2018
CLIMATE ZONE:	2A
PROJECT ELEVATION:	1270'
WINTER DESIGN DB:	30.0 DEG. F
SUMMER DESIGN DBWB:	99.3/73.6 DEG. F
DB DESIGN FOR AIR COOLED EQUIPMENT:	100 DEG. F
INDOOR HEATING SET POINT(S):	70 DEG. F (OCC)
INDOOR COOLING SET POINT(S):	74 DEG. F (OCC)
OCCUPANCY SCHEDULE:	OFFICES: M-F 0730-1730 RETAIL SPACE: M-SA 0900-2200

SHEET LIST				
Sheet Number	Sheet Name	Current Revision	Current Revision Date	Current Revision Description
M001	Mechanical Cover Sheet			
M002	Mechanical Equipment Schedules & Calculations			
M003	Mechanical Specifications			
M004	Mechanical Specifications			
M005	Mechanical Details			
M006	Mechanical Comcheck			
M100	Mechanical Floor Plan			
M200	Mechanical Roof Plan			

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL COORDINATE WORK INDICATED HEREON W/ PLUMBING, ELECTRICAL & FIRE PROTECTION SECTIONS. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR DUCT SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR FIRE SPRINKLER, PIPING & ELECTRICAL CONDUIT MAINS.
- UNLESS NOTED OTHERWISE, BRANCH DUCTS TO INDIVIDUAL TERMINALS, DIFFUSERS AND GRILLES SHALL BE SAME SIZE AS NECK INLET.
- PROVIDE EQUIPMENT SCHEDULED OR INDICATED ON THE DRAWINGS BUT NOT INCLUDED WITHIN THE SPECIFICATIONS. INSTALLATION SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE SUBMITTALS.
- ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS PRIOR TO EQUIPMENT ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION IS THE RESPONSIBILITY OF THIS CONTRACTOR.
- LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAX. HORIZONTAL RUN WITH ONLY ONE 90 DEG. ELBOW PERMITTED. SECURE FLEXIBLE DUCTWORK WITH SCREWS & DRAW BANDS.
- DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS.
- PROVIDE CEILING OPERATIONS FOR INACCESSIBLE M.V.D.'S WHERE INDICATED, EQUAL TO YOUNG REGULATOR. REMOTE FEAR OPERATED, WITH CEILING ESCUTCHEON.
- ITEM DESIGNATIONS INDICATED HEREON ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY W/ OWNER'S REPRESENTATIVE ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIP. PRIOR TO NAMEPLATE ORDER RELEASE.
- CEILING DIFFUSERS SHALL BE 36" MIN. FORM CEILING MOUNTED SMOKE DETECTORS. COORD. W/ ELECTRICAL DIVISION.
- SECURE DIFFUSERS & GRILLES TO T-BAR CEILINGS, WHERE APPLICABLE. SUBMIT SHOP DWG. FOR APPROVAL PRIOR TO BEGIN. WORK.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES & DIFFUSERS IN CEILING, AS WELL AS ACCESS DOORS.
- COORDINATE EQUIP. DIMENSIONS AND LAYOUT W/ PLUMBING SECTION WHERE FLOOR SINKS ARE INDICATED.
- PIPES PASSING THRU FIRE RATED WALLS & FLOORS SHALL BE SEALED WITH U.L. LISTED MATERIAL EQUAL TO 3M FIRE BARRIER, CAULK OR PUTTY. SEALANT'S RATING SHALL MATCH THE RATING OF THE ASSEMBLY.
- PROVIDE VALVE TAGS AND PIPE IDENTIFICATION BANDS. TAGS SHALL BE BRASS W/ CHAIN. IDENTIFICATION BANDS SHALL BE LOCATED EVERY 25 FEET AND ON EITHER SIDE OF INTERMEDIATE BARRIER.
- PROVIDE 18" X 18" MIN. ACCESSIBLE CEILINGS AND WALLS FOR EQUIP. REQUIRING ACCESS OR ADJUSTMENT. COORDINATE LOCATIONS AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO BEGINNING WORK.
- TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT IN STRICT CONFORMANCE WITH MFR.'S INSTRUCTIONS AND SMACNA DUCT CONSTRUCTION STANDARDS.
- VERIFY FIT DUCTWORK AND PIPING PRIOR TO FABRICATION.
- INSULATED PIPING EXPOSED TO VIEW (THROUGHOUT THE FACILITY), SHALL BE COVERED FINISHED W/ PVC JACKET EQUAL TO MANVILLE PVC/ PERMA-WELD PIPE JACKETING SYSTEM USING 30 MIL THICK JACKET. FITTINGS, FLANGES VALVES & ACCESSORIES SHALL BE JACKETED. INSTALL PER MFRS. INSTRUCTIONS W/ SEAM ON TOP OF PIPE SO AS NOT TO BE VISIBLE FROM OCCUPIED SPACE.
- DUCTWORK LOCATED BEL. 7'-6" IN MECHANICAL ROOMS SHALL BE EQUIPPED W/ PADDING MATERIAL ON ALL CORNERS, EDGES & OTHER SURFACES WHICH MAY BE HAZARDOUS.
- COORDINATE & VERIFY ACTUAL APPROVED EQUIP. DIMENSIONS PRIOR TO POURING EQUIP. PADS
- DUCT MOUNTED SMOKE DETECTORS SHALL BE ZERO VELOCITY TYPE WHERE INDICATED ON DRAWINGS
- DRAIN PIPING FROM A/C EQUIPMENT SHALL BE ROUTE SO AS NOT TO CREATE A TRIPPING HAZARD. COORDINATE ACTUAL DRAIN CONNECTIONS WITH PLUMBING SECTIONS. COORDINATE FLOOR SINK LOCATIONS ACCORDINGLY.
- CONDENSATE DRAIN TRAPS SHALL BE 3" DEEP, MINIMUM.
- COORDINATE ALL CHASE, SLEEVE AND SLAB BLOCK OUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
- PROVIDE ACCESS DOOR IN DUCTWORK UPSTREAM OF EACH REHEAT COIL. DUCTMATE METU ROUND DUCT ACCESS DOOR.
- DUCTWORK VISIBLE BEHIND DIFFUSERS, RESISTERS, OR GRILLES SHALL BE PAINTED FLAT BLACK.
- REFER TO EQUIPMENT DRAWINGS, SPECS. & SHOP DRAWINGS FOR CONNECTIONS TO EQUIPMENT.
- MANUAL VOLUME DAMPERS AND VALES ON INSULATED DUCTWORK AND PIPING SHALL HAVE EXTENDED STEMS TO ALLOW FOR THE INSULATION THICKNESS. PROVIDE MIN. 12" LONG RED RIBBON QUADRANT LOCATOR ON VOLUME DAMPER HANDLES.
- HVAC EQUIPMENT SHALL BE SEALED OFF. KEPT FREE FROM DEBRIS, AND SHALL REMAIN UNOPERATIONAL DURING CONSTRUCTION FOR ANY REASON. CONTRACTOR SHALL PROVIDE TEMPORARY HEAT AS REQUIRED.
- THE CONTRACTOR SHALL BRING ERRORS AND OMISSIONS WHICH MAY OCCUR IN THE CONTRACT DOCUMENTS TO THE ATTENTION OF THE ARCHITECT VERBALLY AND IN WRITING. WRITTEN INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS, OF WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK.

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 78015

SHEET TITLE:
 Mechanical Cover Sheet

SHEET NUMBER:
 M001

ROOFTOP UNIT SCHEDULE (NATURAL GAS HEATING - DX COOLING)

TAG	MANUFACTURER/ MODEL	LOCATION/ SERVICE	SUPPLY FAN					HEATING CAPACITY					COOLING CAPACITY					EFFICIENCY (IEER)	MCA	MOCP	VOLT/PH/Hz	WEIGHT* (LBS)	OVERALL DIMENSIONS	NOTES
			TOTAL CFM	OUTDOOR AIR CFM	SUPPLY ESP (IN W.C.)	MAX FAN MOTOR RPM	MOTOR BHP	INPUT (MBH @ S.L.)	OUTPUT (MBH @ S.L.)	OUTPUT ALT. (MBH)	EAT	LAT	TOTAL MBH	SENSIBLE MBH	EAT (DB/WB)	LAT (DB/WB)	CONDENSER AMB. AIR TEMP (DEG. F)							
RTU-1	TRANE/ YSC092	ROOF/ WHOLESALE AREA	3000	625	0.5	707	0.97	200/140	160/112	153.6/107.5	59.3	111.0	90	73.8	78.5/61.9	54.6/38.1	100	12.7	39	50	208/3/60	847	SEE MANUF.	1-8.
RTU-2	TRANE/ YSC092	ROOF/ RETAIL SALES	3000	675	0.5	707	0.97	200/140	160/112	153.6/107.5	60.3	112.0	90	73.8	77.7/61.9	53.9/38.1	100	12.7	39	50	208/3/60	847	SEE MANUF.	1-8.

OR EQUIVALENT BY OTHERS

NOTES:

- FURNISH AND INSTALL ROOFTOP UNIT. PROVIDE WITH 100% OA ECONOMIZER, 2" MERV 8 FILTERS, MODULATING OA DAMPER, STANDARD EFFICIENCY UNIT, TWO STAGE HEATING, BAROMETRIC RELIEF, COIL HAIL GUARD, AND MANUF. RECOMMENDED ROOF CURB. VERIFY LOCATION IN FIELD WITH STRUCTURAL ENGINEER.
- VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
- PROVIDE WITH 24/7 PROGRAMABLE THERMOSTAT. THERMOSTAT TO BE HONEYWELL VISIONPRO 8000 WITH REDLINK OR APPROVED EQUAL. SEE FLOOR PLAN FOR MORE INFORMATION.
- PROVIDE WITH RA MOUNTED SMOKE DETECTOR WITH UNIT CONTROLS AND WIRE TEST STATION INSTALLED PER LOCAL CODE.
- PROVIDE WITH ETL OR UL LISTED NON-FUSED DISCONNECT SWITCH.
- PROVIDE UN-POWERED CONVENIENCE OUTLET TO BE WIRED ON SEPERATE CIRCUIT BY ELECTRICAL CONTRACTOR.
- FAN MOTORS ARE TO BE PROVIDED WITH NEMA PREMIUM EFFICIENCY MOTORS RATED.
- HIGH HEAT INPUT.

*WEIGHT INCLUDES WEIGHT OF ADDED ACCESSORIES

FAN SCHEDULE

TAG	MANUFACTURER/ MODEL	LOCATION/ SERVICE	CFM	ESP (IN. WC)	AMPS	VOLT/Hz/ PHASE	WEIGHT (LBS)	OVERALL DIMENSIONS	METHOD OF CONTROL	NOTES
EF-1	GREENHECK/ SP-A125	CEILING/ RESTROOM	100	0.25	0.62	115/60/1	17	SEE MANUF.	LIGHT SWITCH	1-2

OR EQUIVALENT BY COOK, ACME, AND S&P

NOTES:

- PROVIDE WITH BACKDRAFT DAMPER, ROOF PORTAL, TALL FLASHING CONE, STORM COLLAR, RAINCAP AND BIRDSCREEN.
- INTERLOCK OPERATION WITH LIGHT SWITCH.

GRILLE, DIFFUSER, AND REGISTER SCHEDULE

TAG	USE	PATTERN	ACCESSORIES	FINISH	MAKE & MODEL	REMARKS
SD-1	SPIRAL DUCT DIFFUSER	AS SHOWN	AIR SCOOP	BY ARCH	PRICE SDG	NOMINAL SIZE VARIES, SEE DRAWINGS
SD-2	CEILING DIFFUSER	4-WAY	O.B.D.	BY ARCH	PRICE SCD	24"x24" FACE NECK SIZE VARIES, SEE DRAWINGS
RG-1	CEILING RETURN GRILLE	N/A	RA BOOT	BY ARCH	PRICE PDDR	12"x12" FACE NECK SIZE VARIES, SEE DRAWINGS

OR EQUIVALENT BY TITUS, KRUEGER, METAL-AIRE, OR NAILOR

NOTES:

- UNLESS SPECIFICALLY INDICATED ON PLANS, GRILLE, REGISTER AND DIFFUSER RUN-OUT SIZES ARE AS FOLLOWS:

RUN-OUT	CFM
4"Ø	<40
6"Ø	41-100
8"Ø	101-210
10"Ø	211-375
12"Ø	376-600
14"Ø	601-910

RTU-1: OUTDOOR AIR VENTILATION SCHEDULE (IMC 2021) CONSTANT VOLUME SYSTEM

ROOM	OCCUPANCY DESCRIPTION	Rp	Az	OCCUPANT DENSITY (#/1000 SQ.FT)	Ra	Pz	Ez	ZONE AIR DISTANCE EFFECTIVENESS	CODE: TOTAL EXHAUST (CFM)	EXHAUST SPECIFIED ON DRAWINGS	Voz=(Rp*Pz+Ra*Az)/Ez Minimum Outside Air Required
		CFM/PERSON	SQ FT		AREA CFM	# People					
WHOLESALES AREA 200	SALES	7.5	1907	15	0.12	29	0.8	0	0	0	557.9
Percent Outside Air For Equipment:										Total CFM Outside Air Required:	557.9
										Total Outside Air Specified:	625.0

NOTES:
1. THIS ROOM IS OPEN TO OTHER ROOMS WITH THIS NOTE. THESE ROOMS SHARE OA SUPPLY/REQUIREMENTS.

RTU-2: OUTDOOR AIR VENTILATION SCHEDULE (IMC 2021) CONSTANT VOLUME SYSTEM

ROOM	OCCUPANCY DESCRIPTION	Rp	Az	OCCUPANT DENSITY (#/1000 SQ.FT)	Ra	Pz	Ez	ZONE AIR DISTANCE EFFECTIVENESS	CODE: TOTAL EXHAUST (CFM)	EXHAUST SPECIFIED ON DRAWINGS	Voz=(Rp*Pz+Ra*Az)/Ez Minimum Outside Air Required
		CFM/PERSON	SQ FT		AREA CFM	# People					
SALES AREA 100 (SEE NOTE 1)	SALES	7.5	2056	15	0.12	31	0.8	0	0	0	599.0
RESTROOM ALCOVE 410 (SEE NOTE 1)	CORRIDOR	0	37	0	0.06	0	0.8	0	0	0	2.8
RESTROOM 400	TOILET ROOM - PUBLIC	0	60	0	0	0	0.8	70	100	0	0.0
OFFICE 300	OFFICE	5	106	5	0.06	2	0.8	0	0	0	20.5
HALLWAY 310 (SEE NOTE 1)	CORRIDOR	0	36	0	0.06	0	0.8	0	0	0	2.7
Percent Outside Air For Equipment:										Total CFM Outside Air Required:	625.0
										Total Outside Air Specified:	675.0

NOTES:
1. THIS ROOM IS OPEN TO OTHER ROOMS WITH THIS NOTE. THESE ROOMS SHARE OA SUPPLY/REQUIREMENTS.

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78015

SHEET TITLE:
Mechanical
Equipment
Schedules &
Calculations

SHEET NUMBER:

M002

GENERAL SPECIFICATIONS (CONTINUED)

40. AGENCY QUALIFICATIONS:

TEST & BALANCE AGENCY (TBA) SHALL BE PERFORMED BY AN INDEPENDENT AGENCY ENGAGED SOLELY IN TEST AND BALANCE WORK. AGENCY SHALL BE MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU, (NEBB).

SUBMIT A WRITTEN REPORT WITHIN 30 DAYS OF COMMENCING WORK, WITH ANY RECOMMENDED CHANGES TO INSURE BALANCING CAPABILITY.

SUBMIT A DETAILED TEST PLAN TO THE ARCHITECT ILLUSTRATING ALL FORMATS, DRAWINGS, AND TEST PROCEDURE TO BE USED FOR TESTING THE COMPLETED SYSTEM. THE APPROVED PLAN WILL BE USED FOR TESTING THE SYSTEMS. PROCEDURES SHALL INCLUDE REQUIREMENTS LISTED IN AABC / NEBB STANDARDS, LATEST EDITION AND ANY SPECIAL REQUIREMENTS FOR THIS PROJECT.

MAKE PROJECT VISITS AS REQUIRED DURING CONSTRUCTION PERIOD INSPECTING FOR PROPER INSTALLATION OF THE SYSTEM AND RELATED BALANCING DEVICES. PROJECT VISIT REPORTS SHALL BE MADE TO THE ARCHITECT IN WRITING.

41. CONTRACTORS REQUIREMENTS PRIOR TO TEST & BALANCE:

THE CONTRACTOR SHALL PERFORM ALL REQUIRED PRELIMINARY TESTS AND OTHER PREPARATORY WORK, INCLUDING BUT NOT LIMITED TO:

MAKE SURE ALL FANS ARE OPERATING, CHECK ROTATION, RPM, AND AMPS.
CHECK ALL DAMPERS FOR OPERATION.
PUT ALL HVAC EQUIPMENT IN FULL OPERATION INCLUDING AIR UNITS, ACCU'S AND FANS.
MAKE SURE ALL HVAC CONTROLS ARE INSTALLED AND FULLY OPERATIONAL.
CLEAN/REPLACE FILTERS JUST PRIOR TO TESTING.
PROVIDE ALL BALANCING DEVICES AND DRIVE CHANGES THAT ARE DEEMED NECESSARY BY T & B AGENCY FOR BALANCE AT NO ADDITIONAL COST TO THE OWNER.

42. TEST AND BALANCE:

TEST & BALANCE AGENCY SHALL BALANCE ALL AIR SYSTEMS FOR OPERATION WITHIN DESIGN CRITERIA. PRIME MOVERS SHALL BE WITHIN 5% OF DESIGN AND TERMINALS WITHIN 10% OF DESIGN.

AIR SYSTEMS SHALL BE BALANCED AS DESCRIBED HEREIN.

43. TEST REPORT:

THE TBA SHALL PROVIDE AN ELECTRONIC (PDF) COPY OF A FINAL COMPREHENSIVE TEST REPORT IN THE FOLLOWING FORMAT.

REPORT SHALL BE BOUND 8-1/2 X 11" WITH SUBSTANTIAL COVERS USING APPROVED FORMS, TYPED OR COMPUTER GENERATED REPORTS ARE ACCEPTABLE.

REPORT SHALL BE INDEXED.

TABLE OF CONTENTS SHALL LIST ALL REPORTS.

ALL AIR OUTLETS SHALL BE LOCATED ON CODED DRAWINGS PREPARED BY THE T&B AGENCY. AIR OUTLETS FORMS SHALL BE PREPARED AND CORRELATED TO THE CODED DRAWINGS.

TEST SUMMARY SHALL DESCRIBE FINAL TEST PROCEDURES AND SPECIAL CONDITIONS DURING TESTS (SUCH AS THERMOSTAT OUTSIDE/RETURN AIR RELATIONSHIP, AND DUCT STATIC PRESSURE).

DESCRIBE OTHER DATA THAT MAY ASSIST OPERATING PERSONNEL IN THE CONTINUING OPERATION OF THE SYSTEM.

T&B CONTRACTOR SHALL TAKE AND RECORD ALL NECESSARY READINGS AT THE FINAL BALANCE POINTS, SUCH AS BUT NOT LIMITED TO: AIR QUANTITIES, PRESSURES, SETPOINTS, ENTERING AND LEAVING COIL TEMPERATURES, SPACE INDOOR AND OUTSIDE WET AND DRY BULB TEMPERATURES, OUTDOOR WEATHER CONDITIONS, ELECTRICAL READINGS OF ALL NEW AND EXISTING MOTORS, COMPRESSORS, ETC.

TEST REPORT SHALL CONTAIN TBA CERTIFICATION OF TEST DATA AND SYSTEM CONDITIONS.

SUBMIT THE TEST REPORTS, FOR REVIEW, BEFORE SUBSTANTIAL COMPLETION.

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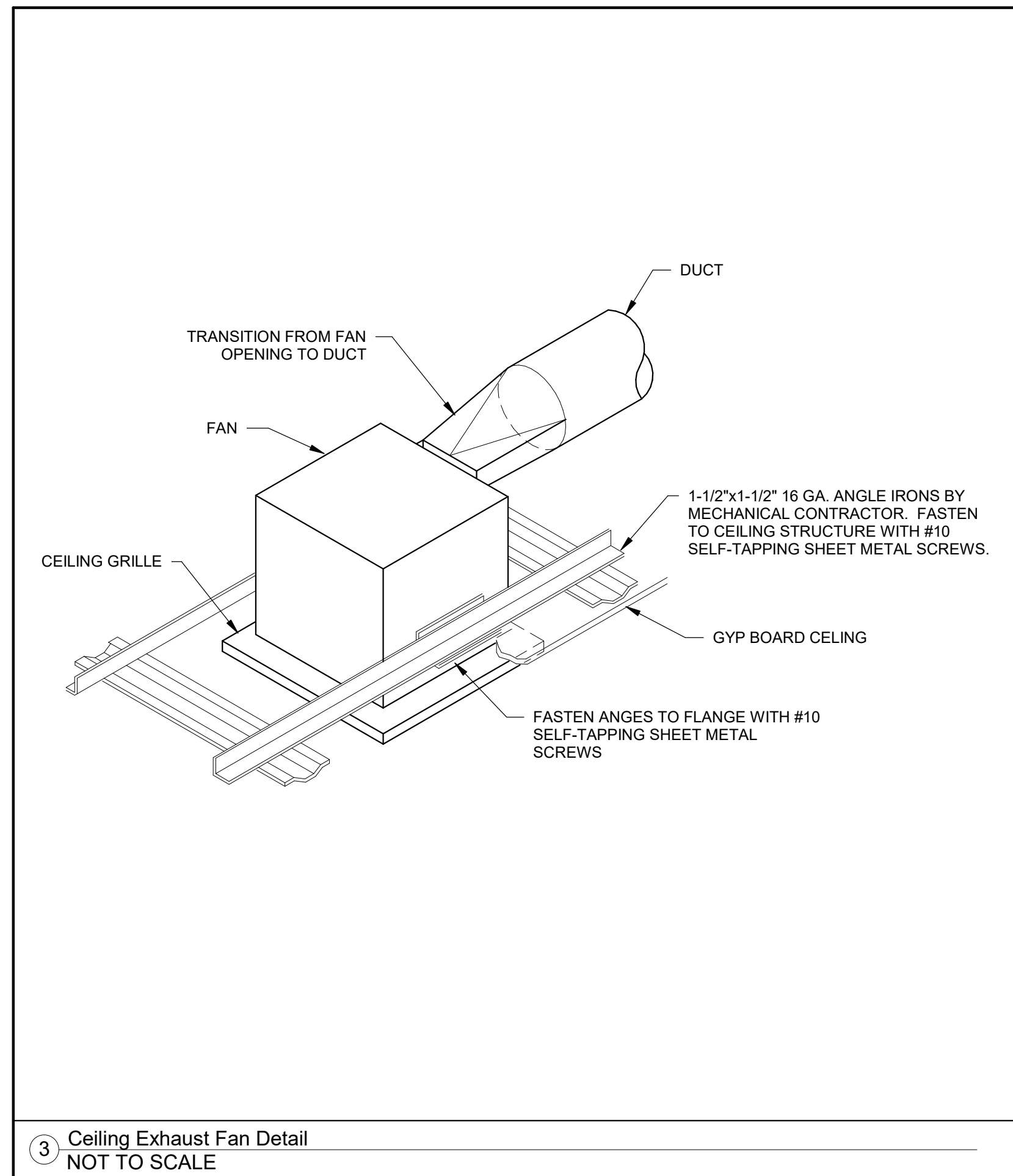
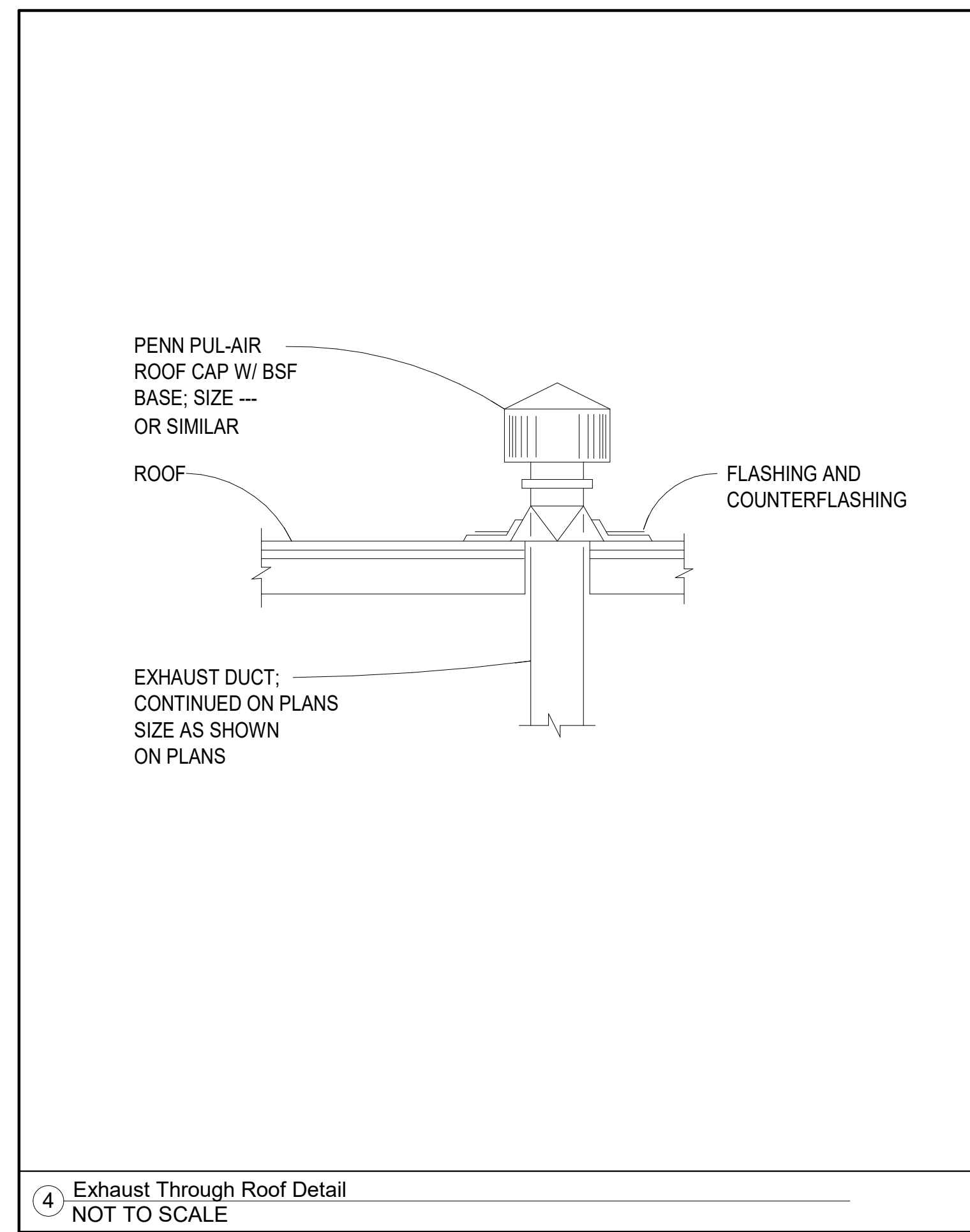
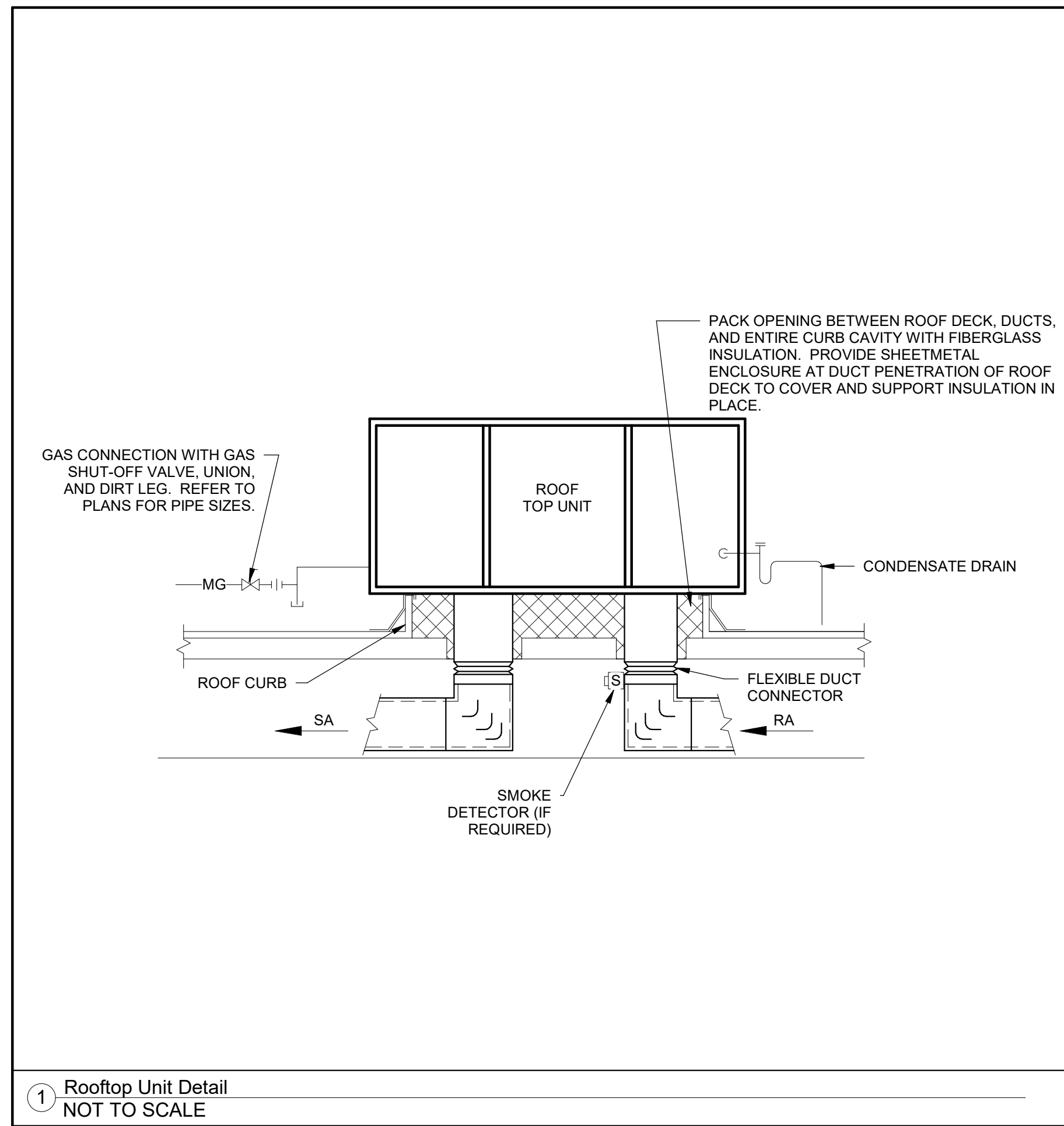
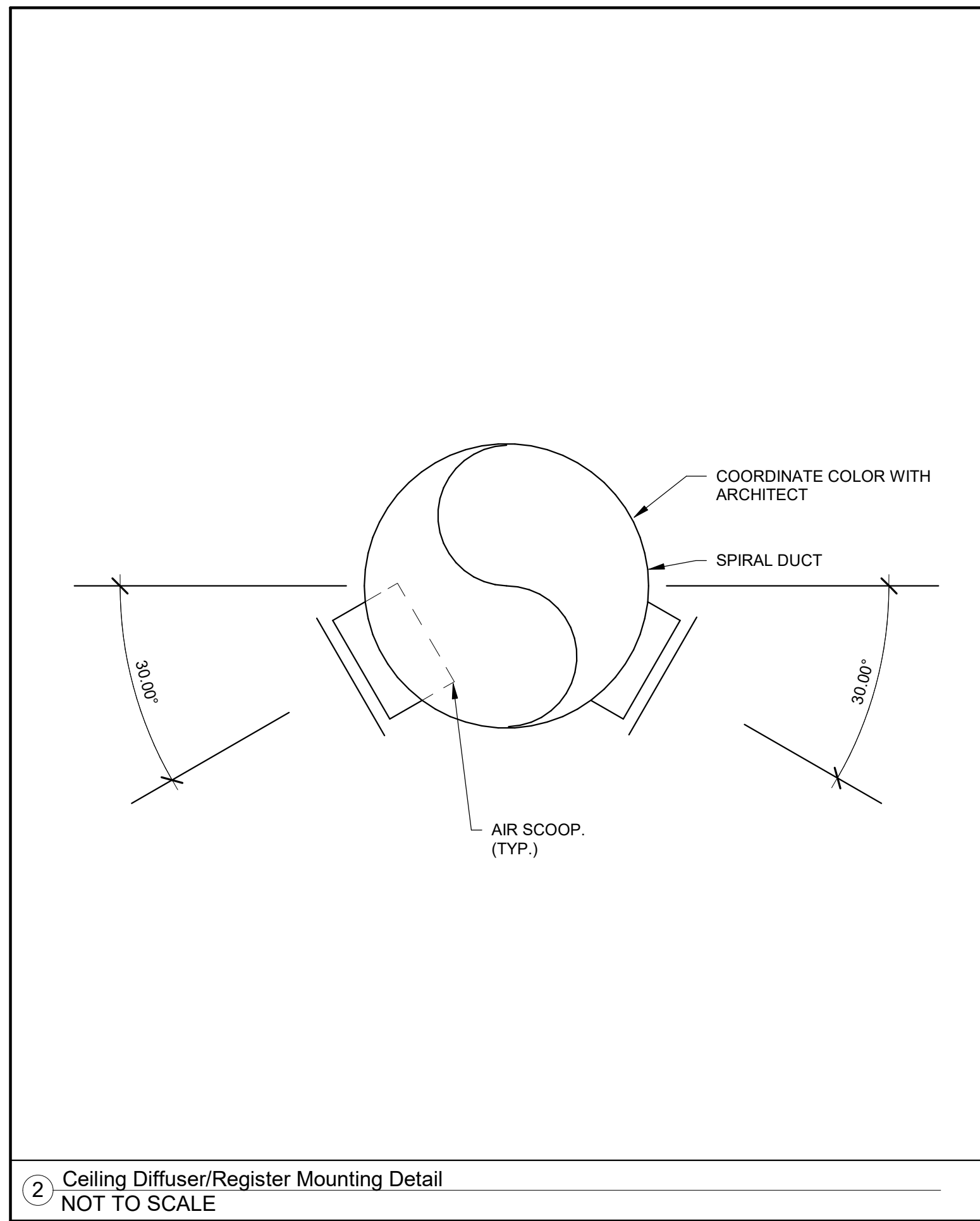
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SHEET TITLE:
Mechanical
Specifications

SHEET NUMBER:
M004



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SHEET TITLE:

Mechanical Details

SHEET NUMBER:

M005

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information
Energy Code: 2021 IECC
Project Title: SW - Fair Oaks, TX
Location: Fair Oaks Ranch, Texas
Climate Zone: 2a
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:
9091 Fair Oaks Pkwy, JCAA Consulting Engineer
Fair Oaks Ranch, Texas 78015 4100 Wadsworth Blvd
Wheat Ridge, Colorado 80033
303-985-3260

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description
2 RTU-1.2 (Single Zone):
Heating: 1 each, Central Furnace, Gas, Capacity = 300 kBtu/h
Proposed Efficiency = 80.0% Et, Required Efficiency = 80.00 % Et or 80% AFUE

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: SW - Fair Oaks, TX
Data Filename: SW - Fair Oaks, TX
Report date: 03/06/23
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COMcheck Software Version COMcheckWeb
Inspection Checklist
Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Table with 5 columns: Section # & Req.ID, Plan Review, Complies?, Comments/Assumptions. Row 1: C403.2 (PR2) Plans, specifications, and/or calculations provide all information with which compliance can be determined...

Additional Comments/Assumptions:

Table with 5 columns: Section # & Req.ID, Plan Review, Complies?, Comments/Assumptions. Row 1: C406 (PR9) Plans, specifications, and/or calculations provide all information with which compliance can be determined...

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Project Title: SW - Fair Oaks, TX
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Table with 5 columns: Section # & Req.ID, Mechanical Rough-In Inspection, Complies?, Comments/Assumptions. Rows include C403.7.4 Exhaust air energy recovery, C403.7.5 Kitchen exhaust systems, C403.11.1 HVAC ducts and plenums insulated...

Project Title: SW - Fair Oaks, TX
Data Filename: SW - Fair Oaks, TX
Report date: 03/06/23
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Table with 5 columns: Section # & Req.ID, Footing / Foundation Inspection, Complies?, Comments/Assumptions. Row 1: C403.12.2 Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.

Additional Comments/Assumptions:

Table with 5 columns: Section # & Req.ID, Footing / Foundation Inspection, Complies?, Comments/Assumptions. Row 1: C403.12.2 Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.

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Project Title: SW - Fair Oaks, TX
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Table with 5 columns: Section # & Req.ID, Rough-In Electrical Inspection, Complies?, Comments/Assumptions. Rows include C403.11.1 Refrigerated display cases, walk-in coolers or walk-in freezers, C405.8 Electric motors meet the minimum efficiency requirements of Table C405.6, C405.9.1 Escalators and moving walks comply with ASME A17.1/CSA 444 and have automatic controls configured to reduce speed to the minimum permitted speed...

Additional Comments/Assumptions:

Table with 5 columns: Section # & Req.ID, Rough-In Electrical Inspection, Complies?, Comments/Assumptions. Row 1: C405.10 Total voltage drop across the combination of feeders and branch circuits <= 3%.

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Table with 5 columns: Section # & Req.ID, Plumbing Rough-In Inspection, Complies?, Comments/Assumptions. Row 1: C404.5 Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.

Additional Comments/Assumptions:

Table with 5 columns: Section # & Req.ID, Plumbing Rough-In Inspection, Complies?, Comments/Assumptions. Row 1: C404.5 Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.

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Project Title: SW - Fair Oaks, TX
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Report date: 03/06/23
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Table with 5 columns: Section # & Req.ID, Final Inspection, Complies?, Comments/Assumptions. Rows include C403.3 Furnished O&M manuals for HVAC systems within 90 days of system acceptance, C403.11.1 HVAC systems and equipment capacity does not exceed calculated loads, C403.4.1 Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.

Project Title: SW - Fair Oaks, TX
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Report date: 03/06/23
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Table with 5 columns: Section # & Req.ID, Mechanical Rough-In Inspection, Complies?, Comments/Assumptions. Row 1: C402.2.6 Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-5.5.

Additional Comments/Assumptions:

Table with 5 columns: Section # & Req.ID, Mechanical Rough-In Inspection, Complies?, Comments/Assumptions. Row 1: C403.8.4 Motors for fans that are not less than 1/2 horsepower and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.

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Project Title: SW - Fair Oaks, TX
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Report date: 03/06/23
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Table with 5 columns: Section # & Req.ID, Final Inspection, Complies?, Comments/Assumptions. Rows include C408.2.3 HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls, C408.2.3 Economizers have been tested to ensure proper operation, C408.2.4 Preliminary commissioning report completed and certified by registered design professional or approved agency.

Additional Comments/Assumptions:

Table with 5 columns: Section # & Req.ID, Final Inspection, Complies?, Comments/Assumptions. Row 1: C408.2.5 Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.

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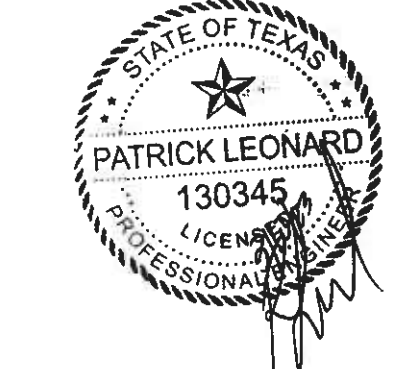
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Table with 2 columns: Section #, Complies?. Rows include PERMIT SET-03/10/2023 and Section 4, 5, 6, 7, 8, 9, 10.

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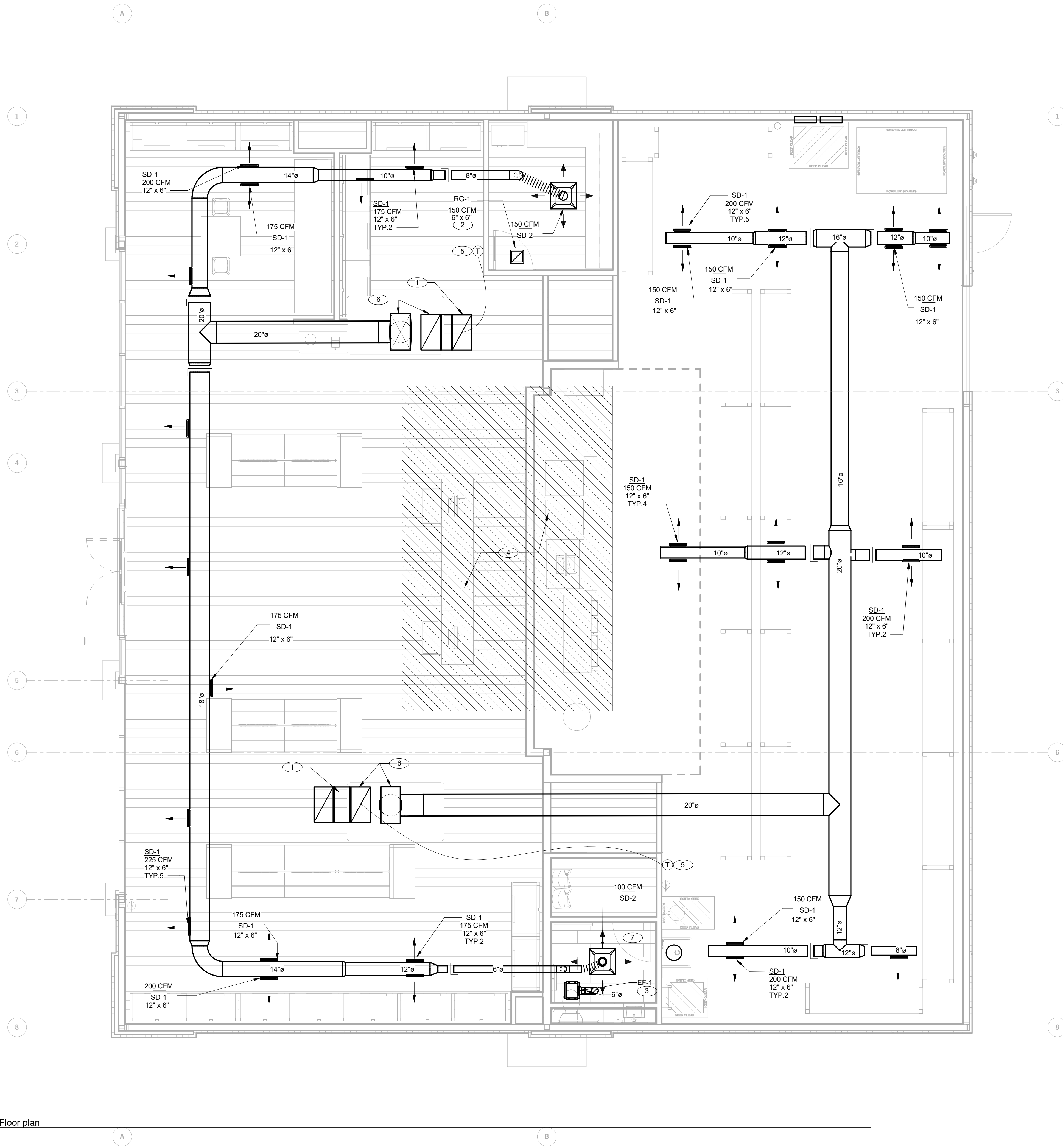
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SHEET TITLE:

Mechanical Comcheck

SHEET NUMBER:

M006



SHEET NOTES:

1. INSTALL TWO 90° ELBOWS TO TURN DUCT UP TOWARDS STRUCTURE. TERMINATE RA DUCT WITH 1/2" WIRE MESH APPROX. 18" BELOW STRUCTURE.
2. INSTALL RETURN GRILLE IN OFFICE CEILING AS SHOWN. LEAVE OPEN TO SPACE ABOVE CEILING.
3. INSTALL EF-1 IN BATHROOM CEILING AS SHOWN. ROUTE 6" DUCT FROM FAN UP THROUGH ROOF ABOVE. TERMINATE WITH RAINCAP AND BIRDSCREEN. VERIFY LOCATION IN FIELD.
4. DO NOT INSTALL ANY DUCTWORK, PLENUMS, ETC. IN THIS AREA.
5. FURNISH AND INSTALL 24/7 PROGRAMMABLE THERMOSTAT WITH AUTO CHANGEOVER AND RELATED WIRING TO CONTROL ROOFTOP UNIT. MOUNT AT 42" AFF IN LOCATION SHOWN. THERMOSTAT TO BE HONEYWELL VISIONPRO 8000 WITH REDLINK OR APPROVED EQUAL. VERIFY FINAL MOUNTING LOCATION WITH OWNER/ARCH. VERIFY PROPER OPERATION IN FIELD. REFER TO DATABOARD DETAIL 2, E300. PROVIDE 100 T-STAT WIRE.
6. 33"x18" SA AND 32"x18" RA DOWN FROM RTU ON ROOF. RE: ROOF PLAN.
7. GENERAL CONTRACTOR TO UNDERCUT DOOR 3/4" ABOVE THRESHOLD FOR TRANSFER AIR.

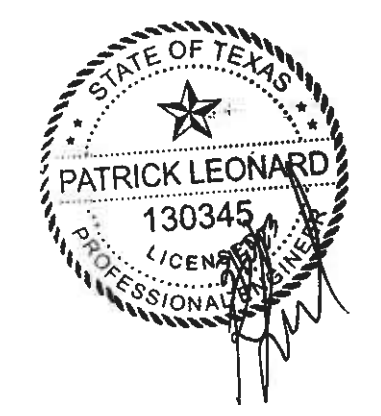
GENERAL NOTES:

1. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
2. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, AND ARCHITECTURAL DIVISIONS. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR MECHANICAL SYSTEMS. DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR PLUMBING PIPING, MECHANICAL PIPING, MECHANICAL DUCTWORK, & ELECTRICAL CONDUIT MAINS. VERIFY FIT OF MECHANICAL SYSTEMS PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
3. BOTTOM OF ALL DUCTWORK SHALL NOT BE LOWER THAN 12'-0" AFF.
4. FURNISH AND INSTALL GALVANIZED STEEL DUCTWORK. SIZES AS NOTED ON DRAWINGS. SIZES SHOWN ARE CLEAR. INSIDE DIMENSIONS. SEE ARCHITECTURAL DRAWINGS FOR EXTERNAL FINISH. SUSPEND WITH AIRCRAFT CABLE.

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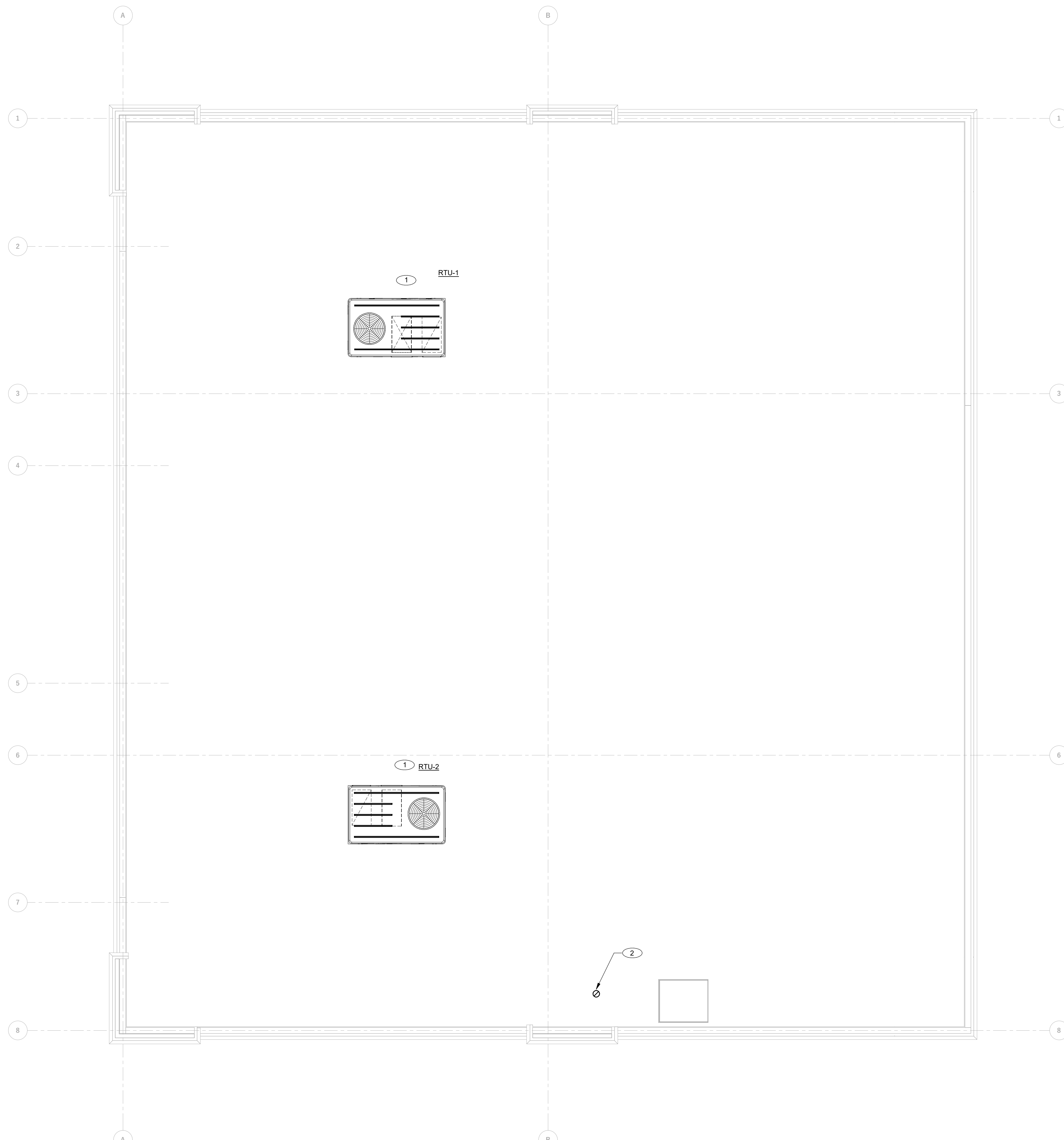
SHERWIN WILLIAMS

STORE #:
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 ADDRESS:
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 FAIR OAKS RANCH, TX
 78015

SHEET TITLE:
 Mechanical Floor Plan

SHEET NUMBER:
 M100

1 Mechanical Floor plan
 1/4" = 1'-0"



SHEET NOTES:

1. INSTALL RTU IN LOCATION SHOWN PER MANUF. SPECIFICATIONS. RTU LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS ARE TO BE VERIFIED WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
2. EXHAUST FAN DUCT UP THROUGH ROOF TO APPROVED VENT CAP & BIRDSCREEN.

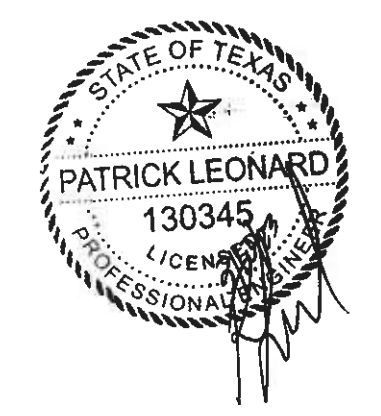
GENERAL NOTES:

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SHEET TITLE:
 Mechanical Roof Plan

SHEET NUMBER:
M200

LEGEND	
SYMBOL	DESCRIPTION
GND	INDICATES GROUND
PNL	INDICATES PANEL
WP	INDICATES WEATHER-PROOF (NEMA 3R)
	NON-FUSED DISCONNECT SWITCH - 30A, 3P, UNLESS NOTED OTHERWISE
	SURFACE MOUNTED PANELBOARD
	FUSED NEMA 3R DISCONNECT SWITCH
	MOTOR OUTLET
	HOMERUN CONDUIT - ARROW INDICATES QUANTITY OF CIRCUITS
	CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING
	LED STRIP
	LED TROFFER
	RECESSED/SURFACE DOWNLIGHT
	PENDANT MOUNTED LUMINAIRE
	WALL SCONCE
	RECESSED LED
	SWITCH
	3 WAY SWITCH
	SWITCH OCCUPANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR
	RECEPTACLE
	GFI RECEPTACLE
	QUAD RECEPTACLE
	DUPLEX RECEPTACLE/TELE-DATA
	TELE-DATA OUTLET
	COAX OUTLET
	JUNCTION BOX
	PUSH BUTTON
	SMOKE DETECTOR
	HORN STROBE
	MANUAL PULL BOX
	COMBINATION BATTERY PACK EGRESS / EXIT LIGHT
	EM WALL SCONCE
	BATTERY BACK EGRESS LIGHT
	MECHANICAL EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS
	GROUND BUS & GROUND ELECTRODES

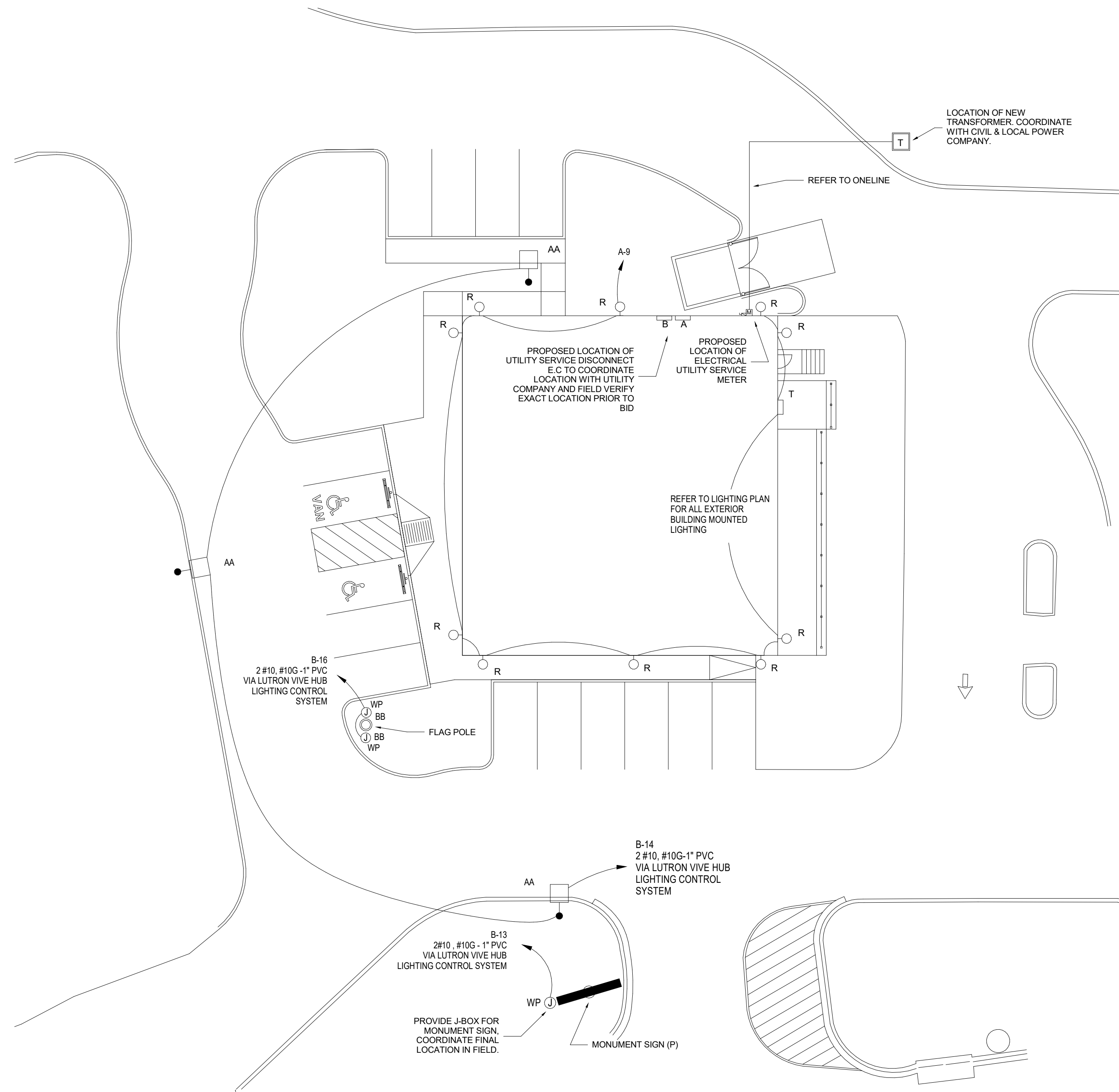
CODES & DESIGN CRITERIA	
JURISDICTION:	FAIR OAKS RANCH, TX
ELECTRICAL CODE:	2020 INTERNATIONAL ELECTRICAL CODE
ENERGY CODE:	2021 INTERNATIONAL ENERGY CONSERVATION CODE

SHEET INDEX		
ISSUE	SHEET NO.	SHEET DESCRIPTION
PERMIT SET - 03/10/2023	E001	ELECTRICAL SITE PLAN
	E100	ELECTRICAL SPECIFICATIONS
	E101	ELECTRICAL SPECIFICATIONS
	E200	LIGHTING PLAN
	E300	POWER PLAN
	E301	ROOF POWER PLAN
	E400	ELECTRICAL ONE LINE DIAGRAM
	E500	COMCHECK
	E501	ELECTRICAL DETAILS

**SHERWIN WILLIAMS
SITE PLAN**

LOCATED OFF FAIR OAKS PARKWAY, FAIR OAKS RANCH, TX 78015
TOWN OF FAIR OAKS RANCH, COUNTY OF BEXAR, STATE OF TEXAS

9091 FAIR OAKS PARKWAY FAIR OAKS RANCH, TEXAS 78015



1 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'- 0"

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78015

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
E001

9. TRANSFORMERS

A. DRY-TYPE TRANSFORMERS (DOE 2016) SHALL BE OF THE ENCLOSED VENTILATED TYPE WITH KVA AND VOLTAGE RATINGS AS CALLED FOR ON THE DRAWINGS AND WITH 150' CLASS H INSULATION AND MINIMUM OF SIX STANDARD FULL CAPACITY TAPS. SOUND LEVEL SHALL BE LOW AND INSTALLATION SHALL INCLUDE KORFUND OR EQUAL VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY. (MOUNT TRANSFORMER ON VIBRATION ISOLATORS). LOCATE TRANSFORMER AS NOT TO CAUSE SERVICING OR CLEARANCE DIFFICULTIES OF VIOLATIONS WITH OTHER EQUIPMENT.

B. COMPARABLE EQUIPMENT AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR EATON.

10. TOGGLE SWITCHES

A. TOGGLE SWITCHES SHALL BE WHITE AND SHALL BE RATED 20 AMPERES 120/277 VOLT AC TYPE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS.

SINGLE POLE -- 1221--W
THREE WAY -- 1223--W

B. TOGGLE SWITCHES SHALL BE MOUNTED 4"-0" ABOVE FINISHED FLOOR TO TOP OF MOUNTING PLATE AND, AT DOORS, INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS; THEREFORE, CHECK ALL DOOR SWINGS BEFORE INSTALLATION OF CONDUIT OUTLETS.

C. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SLATER, LEVITON, AND BRYANT WILL BE ACCEPTABLE.

11. RECEPTACLES

A. RECEPTACLES SHALL BE WHITE AS MANUFACTURED BY HUBBELL AND SHALL BE AS FOLLOWS:
DUPLEX RECEPTACLE -- 20A--125 VOLT 5362--W
GFCI DUPLEX RECEPTACLE -- 20A--125 VOLT GF5362--W

B. RECEPTACLES SHALL BE MOUNTED 18" ABOVE THE FINISHED FLOOR TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.

C. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SIERRA ELECTRIC CORPORATION, SLATER, BRYANT AND LEVITON WILL BE ACCEPTABLE.

12. DEVICE PLATES

A. DEVICE PLATES SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED. COMPARABLE EQUIPMENT AS MANUFACTURED BY COOPER WIRING, SIERRA ELECTRIC CORPORATION, HARVEY HUBBLE INC., BRYANT AND LEVITON WILL BE ACCEPTABLE. PAINT MATCH ADJACENT FINISH COLOR.

B. GRAY PLATES TO BE INSTALLED ON SINGLE DEVICE, DEDICATED CIRCUITS

13. DISCONNECT SWITCHES

A. FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE. DISCONNECT SWITCHES SHALL BE NEMA HEAVY DUTY TYPE AND UNDERWRITERS LABORATORIES LISTED, MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, EATON OR SIEMENS.

14. GROUNDING

A. CONTRACTOR SHALL INSTALL GROUNDING PER N.E.C. ARTICLE 250 EQUIPMENT GROUNDING SHALL USE ONLY APPROVED GROUNDING CLAMPS AND CONNECTORS AS MANUFACTURED BY PENN-UNION, BURNDY, OR O-2 MFG. COMPANY.

B. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250 AND THE UTILITY COMPANY REGULATIONS. CONTRACTOR SHALL CONNECT THE GROUNDING ELECTRODE CONDUCTORS TO THE NEUTRAL BAR INSIDE THE MAIN PANEL.

C. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF A CONTINUOUS CONDUIT INSTALLATION AND A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT OR RACEWAY WITH THE FEEDER OR BRANCH CIRCUIT CONDUCTORS. THIS GROUNDING SHALL BE EXTENDED FROM THE HOUSING OF EVERY ELECTRICAL LOAD, THROUGH PANELBOARD STATIC GROUNDING BUSES, TO THE STATIC GROUNDING BUS IN THE MAIN PANEL. THE GROUNDING BUS SHALL BE BONDED TO THE GROUNDING NEUTRAL BAR INSIDE THE MAIN PANEL.

15. LIGHTING FIXTURES

A. ALL LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE. THIS CONTRACTOR SHALL INSTALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BELOW. COMPLETE WITH HANGERS, PLASTER FRAMES AND ALL OTHER NECESSARY ACCESSORIES.

B. ALL BALLAST, STARTERS AND LAMP HOLDERS IN FLUORESCENT LIGHTING EQUIPMENT ARE TO BE ELECTRICAL TESTING LABORATORIES, UNDERWRITERS LABORATORIES AND CERTIFIED BALLAST MANUFACTURERS APPROVED. ALL BALLAST FOR FLUORESCENT FIXTURES SHALL BE OF THE HIGH POWER FACTOR TYPE AND SHALL BE GENERAL ELECTRIC "MAXI-MISER II" OR ADVANCED MARK III. WHERE OCTRON LAMPS ARE SPECIFIED PROVIDE APPROPRIATE BALLASTS.

C. THIS CONTRACTOR SHALL VERIFY THE FINAL CEILING AND FINISH SCHEDULES TO INSURE THE PROPER INSTALLATION AND MOUNTING OF FIXTURES AND SHALL COORDINATE BEFORE MAKING SUBMITTALS.

16. LIGHTING CONTROLS

A. PANEL #GR1408LTENC--dMNE1--GR1408--DTCMOD WITH 8 RELAYS AND BUILT-IN TIME CLOCK AND AS MANUFACTURED BY LC&D.

B. TIME SWITCHES SHALL BE 24 HOUR, 7 DAY, DAY SKIPPER 365 DAYS AND HOLIDAYS TYPE AS MANUFACTURED BY TORK, INTERMATIC, OR PARAGON.

17. TELEPHONE SERVICE

A. THIS CONTRACTOR SHALL INSTALL A TELEPHONE SERVICE CONDUIT AS SHOWN ON THE DRAWINGS AND FURNISH AND INSTALL (1) 3' x 4' x 3/4" PLYWOOD PANEL MOUNTED ON THE WALL AT LOCATION SHOWN ON PLANS.

18. SURFACE METAL RACEWAY

A. SURFACE METAL RACEWAY SHALL BE TWO PIECE #2100 AS MANUFACTURED BY WIREMOLD. ALL NECESSARY ACCESSORIES REQUIRED TO FIT THE CONFIGURATION SHOWN SHALL BE PROVIDED. RECEPTACLES SHALL BE 120 VAC, 23 APMS, CATALOG NUMBER #2127GT.

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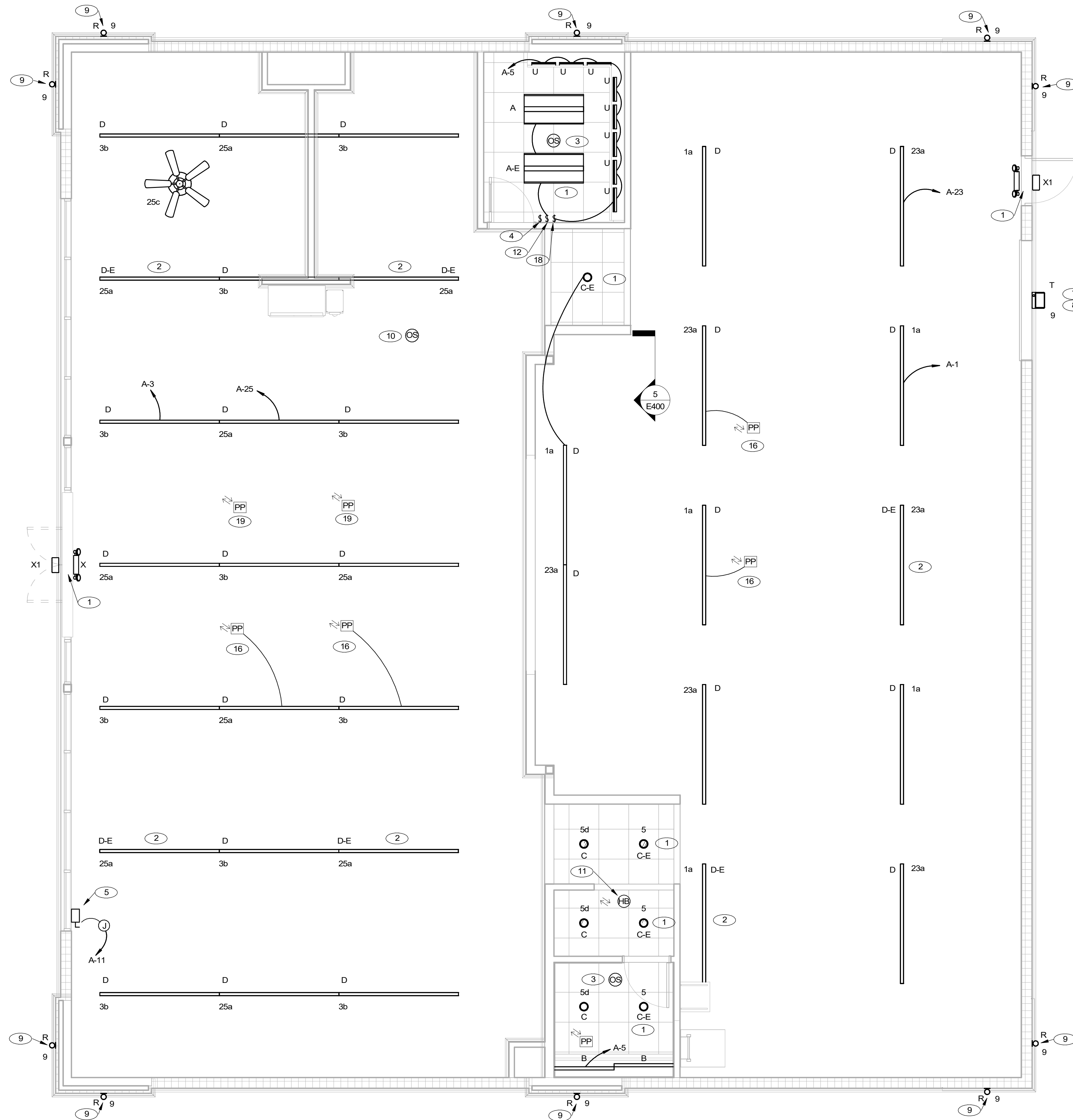
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ADDRESS:
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE:
**ELECTRICAL
SPECIFICATIONS**

SHEET NUMBER:
E101



GENERAL NOTES:

1. EC SHALL REFER TO AND COORDINATE ALL FIXTURE LOCATIONS, HEIGHTS AND TYPE WITH A130.

SHEET NOTES

1. CONNECT EMERGENCY EGRESS LIGHTING FIXTURES AHEAD OF ALL LIGHTING CONTROLS OF GENERAL LIGHTING CIRCUIT SERVING AREA.
2. NIGHT LIGHTING TO BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT SERVING SPACE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN AND INSTALLATION.
3. E.C. TO PROVIDE LUTRON #LRF2-QCR28-0-WH OCCUPANCY SENSOR FOR CONTROL OF AREA LIGHTING AT CEILING MOUNTED HEIGHT OR AS DIRECTED BY G.C. INSTALL PER MANUFACTURER SPECIFICATIONS.
4. LOCATION OF MAIN LIGHTING SWITCHBANK. REFER TO SWITCHBANK DETAIL ON SHEET E400 FOR ADDITIONAL INFORMATION. PROVIDE PERMANENT LABELS.
5. E.C. TO PROVIDE 20A1P, 120V POWER FOR SIGN. PROVIDE NON-FUSED DISCONNECT SWITCH ABOVE ACCESSIBLE CEILING. PROVIDE DEDICATED CIRCUIT #10 COPPER GROUND WIRE FROM EQUIPMENT GROUND BUS IN PANEL FOR CIRCUIT SERVING SIGN. SEE DETAIL ON SHEET E400 FOR VIVE LIGHTING CONTROL SYSTEM. DO NOT USE CONDUIT AS GROUND. FIELD VERIFY EXACT LOCATION OF ROUGH-IN WITH OWNER REPRESENTATIVE. COORDINATE AND VERIFY EXACT REQUIREMENTS WITH SIGNAGE VENDOR PRIOR TO ROUGH-IN. MOUNT ABOVE DOOR, SHOWN OFFSET FOR CLARITY.
6. NOT IN USE.
7. EXTERIOR LIGHTING CIRCUITS CONTROLLED THROUGH LUTRON VIVE HUB LIGHTING CONTROL SYSTEM. VERIFY EXACT FIXTURE MOUNTING HEIGHT PRIOR TO ROUGH-IN AND INSTALLATION.
8. EXTERIOR WALL MOUNTED LED FIXTURE TO BE INSTALLED ABOVE OVERHEAD DOOR. LIGHT SHALL BE CONTROLLED VIA PHOTO-EYE SWITCH. COORDINATED EXACT LOCATION WITH G.C. PRIOR TO INSTALLATION.
9. COORDINATE FIXTURE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS AND G.C.
10. E.C. TO PROVIDE LUTRON #LRF2-DCRB-WH DAYLIGHT SENSOR FOR CONTROL OF LIGHTING IN DAYLIGHT ZONE. ALL LIGHTING WITHIN SPECIFIED AREA TO BE PROVIDED WITH AUTOMATIC CONTROL DIMMING VIA DAYLIGHTING SENSOR SWITCH. TWO HOUR MANUAL OVERRIDE CONTROL SHALL BE PROVIDED AT SWITCH BANK. DAYLIGHTING SHALL BE DESIGNATED AS CONTROL ZONE "N".
11. E.C. TO PROVIDE LUTRON #LUS-0-GM HUB ABOVE CEILING FOR CONTROL OF AREA LIGHTING.
12. E.C. TO PROVIDE LUTRON #RJ2-4B-GWH-L01 (CW-1-WH) PICO 4 BUTTON CONTROL FOR LIGHTING CONTROL SWITCHING. CONNECT TO ASSOCIATED POWER PACK DIMMING MODULE FOR CONTROL DIMMING OF LIGHTING.
13. NOT IN USE.
14. NOT IN USE.
15. NOT IN USE.
16. PROPOSED LOCATION OF LUTRON #RMJS-8T-DV-B DIMMING MODULE FOR 0-10V DIMMING CONTROL OF LIGHTING. COORDINATE WITH LUTRON SYSTEMS AND ASSOCIATED SWITCHING AS SHOWN.
17. PROPOSED LOCATION OF LUTRON #RMJS-5R-DV-B POWER PACK RELAY MODULE FOR CONTROL OF AREA LIGHTING. COORDINATE WITH LUTRON SYSTEMS AND ASSOCIATED SWITCHING AS SHOWN.
18. E.C. TO PROVIDE LUTRON #MRF2S-6ELV120-WH WIRELESS DIMMING CONTROL SWITCHING FOR CONTROL OF UNDER COUNTER TASK LIGHTING. COORDINATE WITH LUTRON SYSTEMS AND MANUFACTURER SPECIFICATIONS.
19. PROPOSED LOCATION OF LUTRON #RMJS-20R-DV-B RECEPTACLE CONTROL RELAY MODULE. COORDINATE WITH LUTRON SYSTEMS AND ASSOCIATED SWITCHING AS SHOWN. COORDINATE WITH SHEET E300.

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 78015

SHEET TITLE:

LIGHTING PLAN

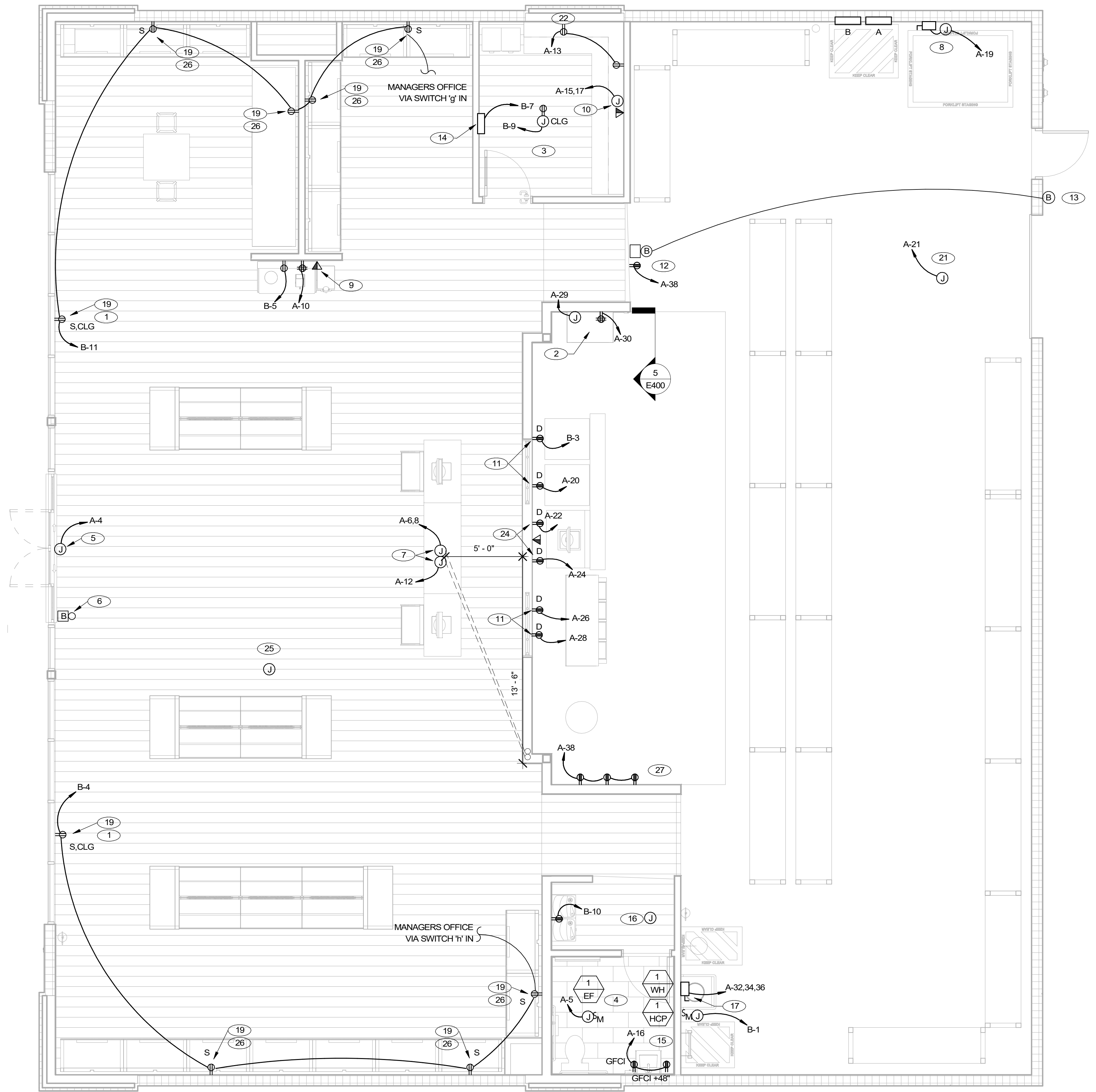
SHEET NUMBER:

E200

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

SHEET NOTES

- 1 E.C. TO PROVIDE DUPLEX RECEPTACLE MOUNTED IN SOFFIT ABOVE WINDOW FOR SHOW WINDOW REQUIREMENTS PER NEC 210.62 FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN AND INSTALLATION.
- 2 E.C. TO INSTALL TT8 / PHONE BOARD FOR CONNECTION TO LOW VOLTAGE EQUIPMENT AND DATA REQUIREMENTS. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN AND INSTALLATION. INSTALL PER MANUFACTURER RECOMMENDATIONS. SEE DATA SWITCH BOARD DETAIL 5 ON SHEET E400 FOR ADDITIONAL INFORMATION.
- 3 E.C. TO PROVIDE J-BOX IN OFFICE FOR INSTALLATION OF CEILING MOUNTED DUPLEX OUTLET. VERIFY EXACT LOCATION WITH G.C. PRIOR TO ROUGH-IN AND INSTALLATION.
- 4 BATHROOM EXHAUST FAN TO BE AUTOMATICALLY CONTROLLED WITH AREA OCCUPANCY LIGHTING SENSOR. COORDINATE INSTALLATION WITH M.C.
- 5 E.C. TO PROVIDE J-BOX AT 10'-0" A.F.F. OR AS DIRECTED BY G.C. FOR CONNECTION TO AUTOMATIC DOOR CONTROL. VERIFY CONNECTION REQUIREMENTS AND INSTALL PER MANUFACTURER SPECIFICATIONS.
- 6 E.C. TO PROVIDE LOW VOLTAGE CONDUIT FROM AUTOMATIC DOOR SENSOR TO OFFICE FOR FUNCTION OF DOOR CONTROL COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER SPECIFICATIONS.
- 7 THE LANDLORD SHALL INSTALL PULL BOXES RECESSED INTO THE SLAB IN THE SALES AREA. THE CONDUITS AND FEEDS FOR THE PULL BOXES SHALL EXTEND FROM A WALL AND UNDER THE SLAB. PULL BOX "A" SHALL RECEIVE TWO DEDICATED, 20-AMP, SINGLE PHASE, 120 VOLT CIRCUITS AND ONE STANDARD SINGLE PHASE, 120 VOLT CIRCUIT. PULL BOX "B" SHALL RECEIVE (2) 1-1/4 INCH CONDUITS WITH PULL WIRES FROM THE PULL BOX AND TERMINATE AT THE SATELLITE BOARD.
- 8 E.C. TO PROVIDE J-BOX AND DISCONNECT AT +48" A.F.F. OR AS DIRECTED BY FOR CONNECTION TO FORKLIFT CHARGING STATION. REFER TO MANUFACTURERS DOCUMENTATION FOR INSTALLATION INSTRUCTIONS
- 9 E.C. TO INSTALL DUPLEX AND DATA OUTLET AT +83" A.F.F. TO TOP OF RECESSED ELECTRICAL BOX. REFER TO NOTE #2 AND #3, DETAIL #6 ON SHEET A300 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATIONS WITH G.C. PRIOR TO ROUGH-IN AND INSTALLATION.
- 10 E.C. TO PROVIDE J-BOX AS DIRECTED BY G.C. ABOVE COUNTER FOR CONNECTION TO (2) OFFICE RACEWAYS. RACEWAY TO BE INSTALLED BY G.C. / E.C. VERIFY SCOPE OF WORK PRIOR TO BID.
- 11 RECEPTACLES AT AREA INDICATED ON PLANS TO BE 'D' TYPE OUTLET MOUNTED AT +40" A.F.F. EACH RECEPTACLE SHALL BE DEDICATED 20A, 1P, 120V CIRCUIT WITH GRAY DUPLEX RECEPTACLE AND COVER PLATE PER ARCHITECT SPECIFICATIONS.
- 12 INSTALL OPTEX CHIME SYSTEM RECEIVER UNIT. BUZZER AND REQUIRED STANDARD OUTLET ON STAGING WALL AT +108" PROVIDE CONNECTION TO EXTERIOR WEATHERPROOF BUZZER BUTTON AS SHOWN. CHIME RECEIVER SHALL BE OPTEX MODEL #RCTD-20J. BUZZER SHALL BE EDWARDS COMPANY MODEL #725.
- 13 EXTERIOR WEATHERPROOF BUZZER BUTTON TO BE INSTALLED ON THE EXTERIOR WALL BETWEEN THE OVERHEAD DOOR AND THE ADJACENT PERSONNEL DOOR AT +48" A.F.F. AS SHOWN. VERIFY CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION. BUZZER BUTTON SHALL BE EDWARDS COMPANY MODEL #1786-B.
- 14 E.C. TO COORDINATE WITH AUTOMATIC DOOR MANUFACTURER. MANUFACTURER SPECIFICATIONS FOR INSTALLATION OF AUTOMATIC DOOR CONTROL PANEL. VERIFY CONNECTION AND POWER REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.
- 15 E.C. TO PROVIDE GFCI PROTECTED OUTLETS FOR CONNECTION TO AUTOMATIC FAUCETS BENEATH LAVATORY. COORDINATE WITH P.C. VERIFY CONNECTION AND POWER REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.
- 16 E.C. TO PROVIDE LUTRON #HJS-O-FM HUB WITH INTEGRATED TIMECLOCK ABOVE CEILING AS REQUIRED TO CONTROL LIGHTING AND SIGNAGE. SEE LIGHTING CONTROL PANEL DIAGRAM ON SHEET E400 FOR ADDITIONAL INFORMATION.
- 17 E.C. TO PROVIDE J-BOX AND 30A, 3P, 208V DISCONNECT SWITCH WITH #10 WIRE IN 3/4" CONDUIT TO ELECTRIC WATER HEATER. COORDINATE CONNECTION REQUIREMENTS PER MANUFACTURER RECOMMENDATIONS. VERIFY MOUNTING HEIGHT OF J-BOX WITH ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.
- 18 E.C. TO COORDINATE PER MECHANICAL PLANS FOR ALL WORK REQUIRED FOR RTU-1 & RTU-2. VERIFY SCOPE OF WORK PRIOR TO ANY BID. PROVIDE NEW WEATHERPROOF GFCI PROTECTED RECEPTACLE.
- 19 E.C. TO INSTALL 'S' TYPE OUTLETS AT LOCATION AND HEIGHTS NOTED. OUTLETS SHALL BE WIRED TO ASSOCIATED LUTRON #RMJS-20R-DV-B RECEPTACLE CONTROL RELAY MODULE AND CONTROLLED VIA MAIN SWITCHBANK LOCATED INSIDE OFFICE AND BEHIND DOOR. OUTLETS SHALL BE WHITE DUPLEX RECEPTACLE AND COVER PLATE. SHALL BE INSTALLED HORIZONTALLY AND SHALL BE PAINTED TO MATCH SURROUNDING WALL. INSTALL SAME TYPE OF OUTLET IN HEADER OF EACH RUN OF STOREFRONT. ALL OUTLETS SHALL BE MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
- 20 NOT IN USE.
- 21 E.C. TO PROVIDE CONNECTION FOR MOTORIZED DOOR. COORDINATE REQUIREMENTS WITH DOOR VENDOR AND VERIFY ALL CONNECTION AND DISCONNECTING REQUIREMENTS PRIOR TO INSTALLATION. VERIFY SCOPE OF WORK PRIOR TO BID.
- 22 UNDER COUNTER TYPICAL OF 2.
- 23 NOT IN USE.
- 24 BLUE HUBBELL 4-PLEX SURGE SUPPRESSION RECEPTACLE.
- 25 J-BOX WITH CONDUIT AND PULL WIRES INSTALLED AT ROOF STRUCTURE.
- 26 MOUNT OUTLETS AT 86" A.F.F.
- 27 THE LANDLORD SHALL INSTALL A 4'X8'X3/4 INCH PLYWOOD BOARD TO SUPPORT SHERWIN WILLIAMS PHONE, COMPUTER AND SATELLITE EQUIPMENT. SEE ELEVATION FOR INSTALLATION INSTRUCTIONS AND SPECIAL ELECTRICAL REQUIREMENTS. PLYWOOD SHALL BE MINIMUM APA STRUCTURAL I RATED SHEATHING EXTERIOR C-C.



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

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SHERWIN WILLIAMS

STORE #
XXXX
ADDRESS
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE

POWER PLAN

SHEET NUMBER

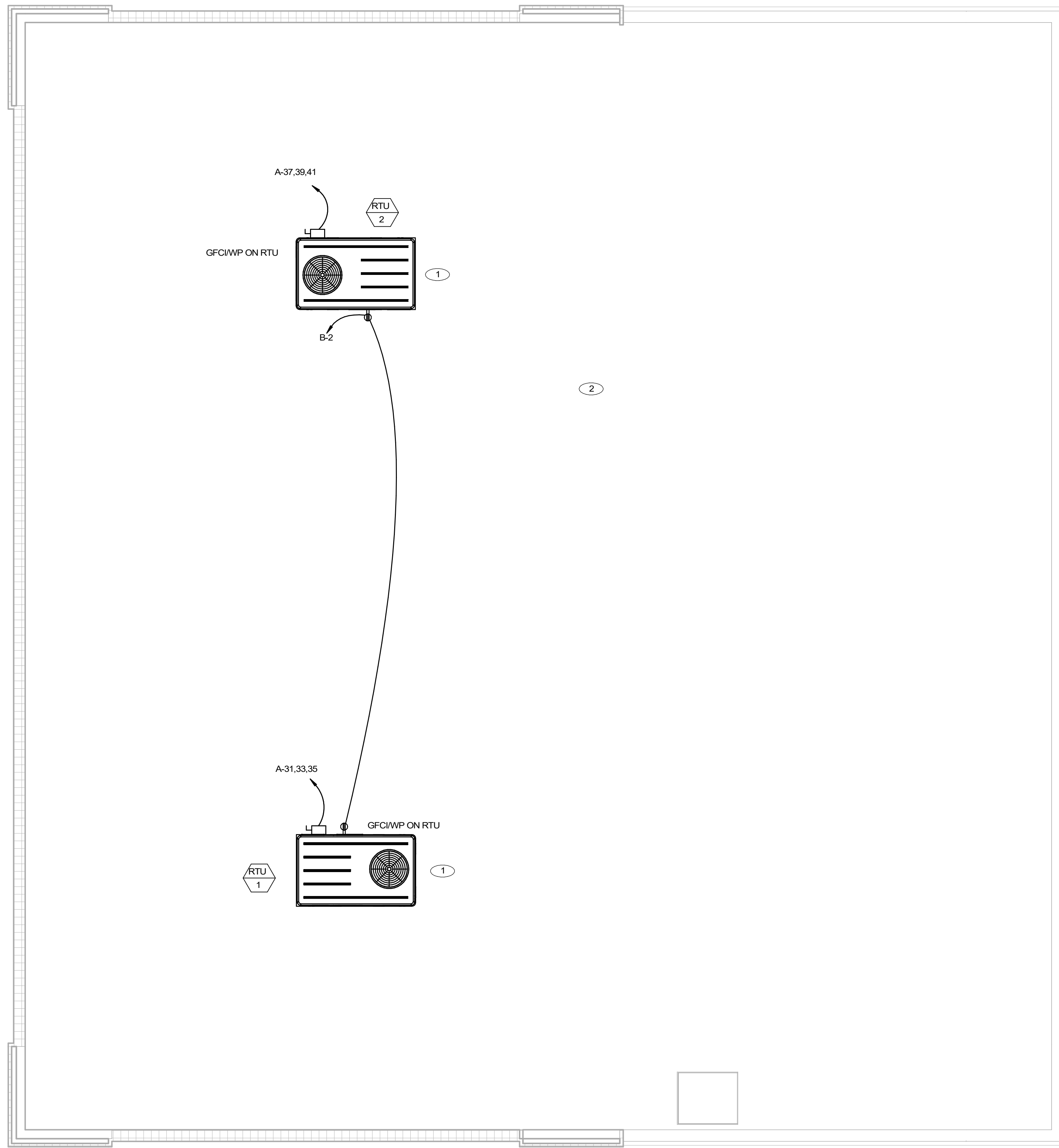
E300

SHEET NOTES

- 1 E.C. TO COORDINATE PER MECHANICAL PLANS FOR ALL WORK REQUIRED FOR RTU-1 & RTU-2. VERIFY SCOPE OF WORK PRIOR TO ANY BID. PROVIDE NEW WEATHERPROOF GFCI PROTECTED RECEPTACLE.
- 2 GC/EC TO INSTAL CONDUIT FOR SATELITE ANTENNA SYSTEM. REFER TO DETAIL 1 ON SHEET E501 FOR CONDUIT SIZING INFORMATION.

GENERAL NOTES:

- 1. ALL ELECTRICAL DEVICES LOCATED OUTDOORS SHALL BE W.P.
- 2. ALL PENETRATIONS TO ROOF SHALL BE W.P.
- 3. ALL ELECTRICAL ROOF PENETRATIONS SHALL BE 12" AWAY FROM ANY EQUIPMENT. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL ROOF TOP EQUIPMENT PRIOR TO START OR WORK.
- 4. ALL CONDUIT RUNS SHALL BE INSTALLED IN THE CEILING SPACE BELOW ROOF. EXPOSED HORIZONTAL CONDUIT RUNS ON ROOF ARE NOT PERMITTED.
- 5. SEE MECHANICAL DRAWINGS FOR ADDITIONAL EQUIPMENT INFORMATION.
- 6. E.C. TO PROVIDE ALL NECESSARY POWER & FINAL CONNECTIONS TO ROOF MOUNTED EQUIPMENT. COORDINATE ROOF PENETRATION REQUIREMENTS WITH LANDLORDS.
- 7. VERIFY THAT AT LEAST (1) 120V RECEPTACLE IS LOCATED WITHIN 25'-0" (MAXIMUM), OF ALL EQUIPMENT THAT REQUIRES MAINTENANCE. PROVIDE ADDITIONAL RECEPTACLES AS NEEDED.
- 8. EC SHALL PROVIDE PERMANENT WEATHER RESISTANT PHENOLIC LABELS ON ALL DISCONNECTS. LABEL INFORMATION SHALL INCLUDE PANEL OF CIRCUIT ORIGINATION, CIRCUIT NUMBER, VOLTAGE, PHASE, AND WIRE CONNECTION. EXAMPLE -PANEL A-1 120/208V 3Ø 4W
- 9. REFER TO SHEET E300 FOR RTU-1, RTU-2 CIRCUITING INFORMATION



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

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SHERWIN WILLIAMS

STORE #
XXXX
ADDRESS:
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE:
ROOF POWER PLAN

SHEET NUMBER:
E301



COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: 23.038 SW Fair Oaks
Project Type: New Construction

Construction Site: 9091 Fair Oaks PKWY, Fair Oaks Ranch, Texas 78015
Owner/Agent:
Designer/Contractor: JCAA Consulting Engineers, 4100 Wadsworth Blvd, Wheat Ridge, Colorado 80033

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Retail	4550	0.84	3822
Total Allowed Watts =			3822

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture	D Wattage	E (C X D)
1-Retail				
LED 1: A: LED Troffer: Other:	1	2	44	88
LED 2: B: LED Strip Light: Other:	1	2	23	46
LED 3: C: LED Down Light: Other:	1	7	33	231
LED 4: D: Strip Light: Other:	1	33	72	2376
LED 5: U: Under Counter Light: Other:	1	8	11	88
Total Proposed Watts =				2829

Interior Lighting PASSES: Design 26% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Craig Olson
Name - Title Signature Date 03/02/2023

Project Title: 23.038 SW Fair Oaks Report date: 03/02/23
Data filename: Page 2 of 8

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15] ¹	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL18] ¹	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2.3 [EL23] ¹	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2.2 [EL22] ¹	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.3 [EL16] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.3.1 [EL20] ¹	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.3.2 [EL21] ¹	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.4 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.5 [EL25] ¹	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: SHERWIN-WILLIAMS Report date: 02/21/23
Data filename: P:\JCAA 2022\22.028 - Sherwin Williams - 705 W Baptist - Monument, CO\DOCUMENTS\COMCHECK\COMCHECK-ELECTRICAL.cck Page 4 of 7



COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: 23.038 SW Fair Oaks
Project Type: New Construction
Exterior Lighting Zone: 2 (Residentially zoned area (LZ2))

Construction Site: 9091 Fair Oaks PKWY, Fair Oaks Ranch, Texas 78015
Owner/Agent:
Designer/Contractor: JCAA Consulting Engineers, 4100 Wadsworth Blvd, Wheat Ridge, Colorado 80033

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	20000 ft ²	0.04	Yes	800
Total Tradable Watts (a) =				800
Total Allowed Watts =				800
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture	D Wattage	E (C X D)
Parking area (20000 ft ²): Tradable Wattage				
LED 1: AA: Other:	1	5	100	500
LED 2: R: Other:	1	10	28	280
LED 3: T: Other:	1	1	60	60
LED 4: BB: Other:	1	2	8	16
Total Tradable Proposed Watts =				856

Exterior Lighting PASSES: Design 29% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Craig Olson
Name - Title Signature Date 03/02/2023

Project Title: 23.038 SW Fair Oaks Report date: 03/02/23
Data filename: Page 3 of 8

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4 [EL23] ¹	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces. C405.2.3.1 Daylight-responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.5 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.7 [EL28] ¹	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.7 [EL26] ¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8 [EL27] ¹	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28] ¹	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.10 [EL29] ¹	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.11 [EL30] ¹	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.11.1 [EL31] ¹	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 23.038 SW Fair Oaks Report date: 03/02/23
Data filename: Page 7 of 8



COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 23.038 SW Fair Oaks Report date: 03/02/23
Data filename: Page 5 of 8

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F17] ¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.5.1 [F119] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturer's information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 [F16] ¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F133] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 23.038 SW Fair Oaks Report date: 03/02/23
Data filename: Page 8 of 8

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PROJECT #

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PERMIT SET - 03/13/2023

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SHERWIN WILLIAMS

STORE #

XXXX

ADDRESS:

9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE:

COMCHECK

SHEET NUMBER:

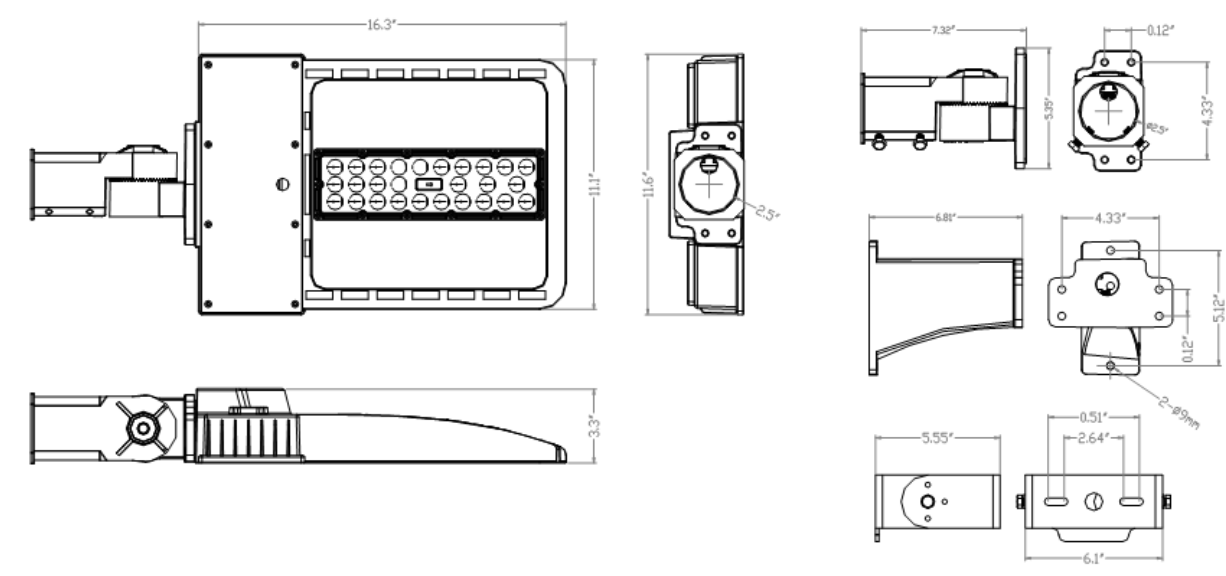
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TYPE 'AA'

LED Shoe Box Light

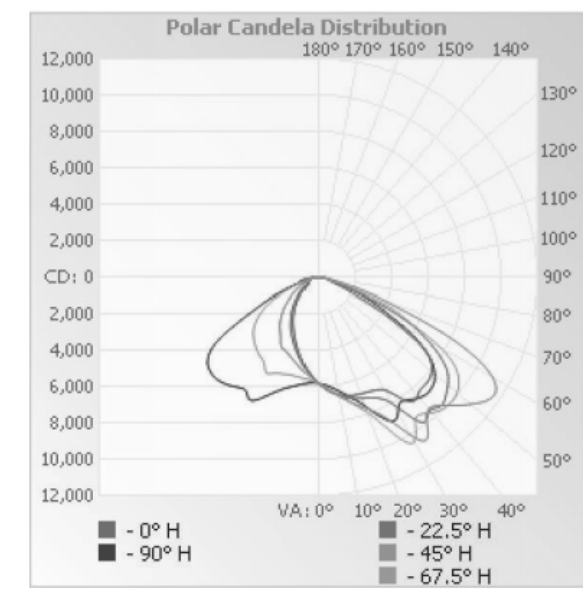
Technical Details and Photometric

Product Number	Power Consumption (W)	Dimensions (Inch)	Color Temperature (K)	System Luminous Flux(lm)	System Efficacy (lm/W)
SB-80W A1XYZ	80	11.8"×12.6"×8.4"	3000K-6500K	10,400	130
SB-100W A1XYZ	100	11.8"×12.6"×8.4"	3000K-6500K	13,000	130



Photometric Data

Rated Power	80/100W
Input Voltage	100-277/200-480VAC
Frequency	50 / 60 Hz
Power Factor	>0.9
Beam Angle	120°
CRI	≥ 80
Dimming Function	0 - 10 V
Operating Temperature	-30°C to 45°C
Beam Angle	Type III



RM 1205, 12/F TAI SANG BANK BLDG 130-132 DES VOEUX RD CENTRAL HK. www.jamesindustry.com

1/4 Page

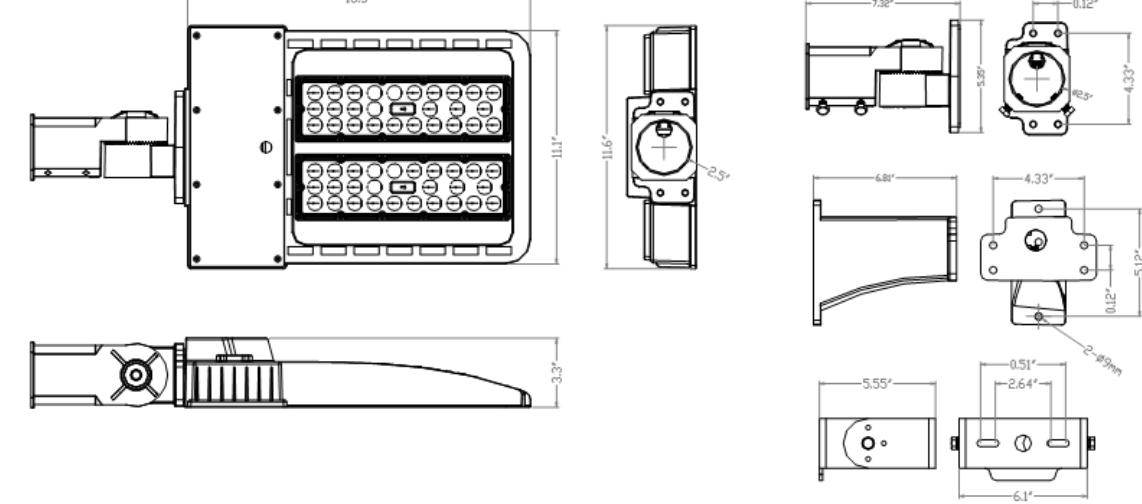
TYPE 'AA'

LED Shoe Box Light

Technical Details and Photometric

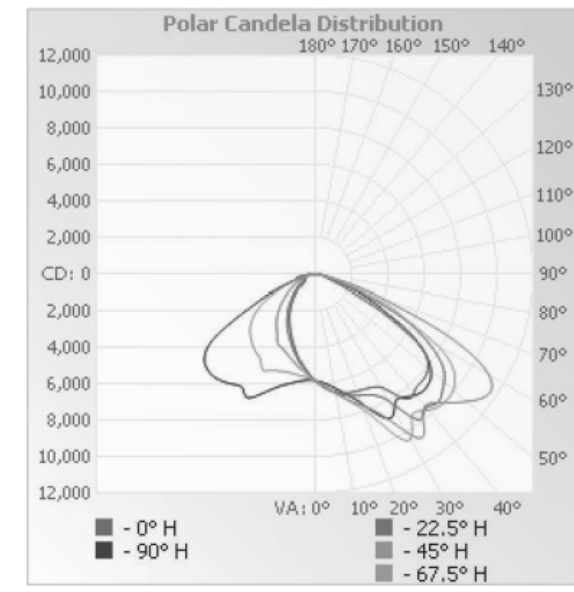
Product Number	Power Consumption (W)	Dimensions (Inch)	Color Temperature (K)	System Luminous Flux(lm)	System Efficacy (lm/W)
SB-150W A2XYZ	150	23.9"×12.6"×8.4"	3000K-6500K	19,500	130
SB-200W A2XYZ	200	23.9"×12.6"×8.4"	3000K-6500K	26,000	130

Dimensions



Photometric Data

Rated Power	150/200W
Input Voltage	100-277/200-480VAC
Frequency	50 / 60 Hz
Power Factor	>0.9
Beam Angle	120°
CRI	≥ 80
Dimming Function	0 - 10 V
Operating Temperature	-30°C to 45°C
Beam Angle	Type III



RM 1205, 12/F TAI SANG BANK BLDG 130-132 DES VOEUX RD CENTRAL HK. www.jamesindustry.com

2/4 Page

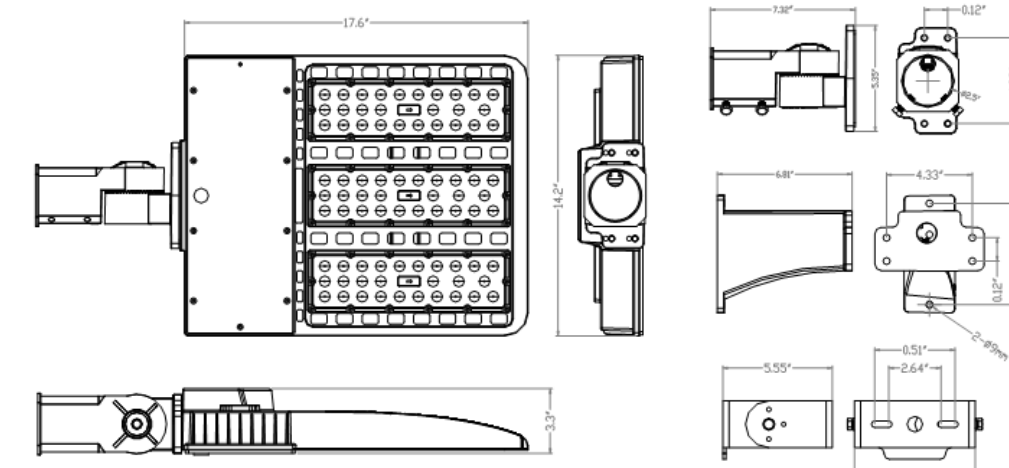
TYPE 'AA'

LED Shoe Box Light

Technical Details and Photometric

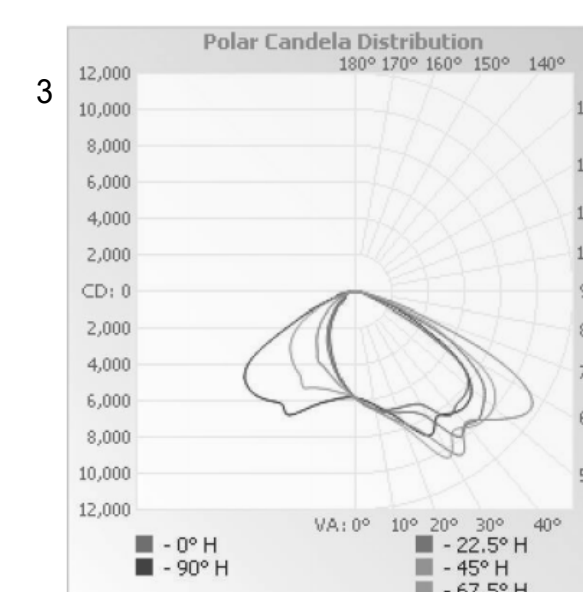
Product Number	Power Consumption (W)	Dimensions (Inch)	Color Temperature (K)	System Luminous Flux(lm)	System Efficacy (lm/W)
SB-300W A3XYZ	300	29.4"×12.6"×8.6"	3000K-6500K	39,000	130

Dimensions



Photometric Data

Rated Power	300W
Input Voltage	100-277/200-480VAC
Frequency	50 / 60 Hz
Power Factor	>0.9
Beam Angle	120°
CRI	≥ 80
Dimming Function	0 - 10 V
Operating Temperature	-30°C to 45°C
Beam Angle	Type III



RM 1205, 12/F TAI SANG BANK BLDG 130-132 DES VOEUX RD CENTRAL HK. www.jamesindustry.com

3/4 Page

TYPE 'AA'

LED Shoe Box Light

Technical Details and Photometric

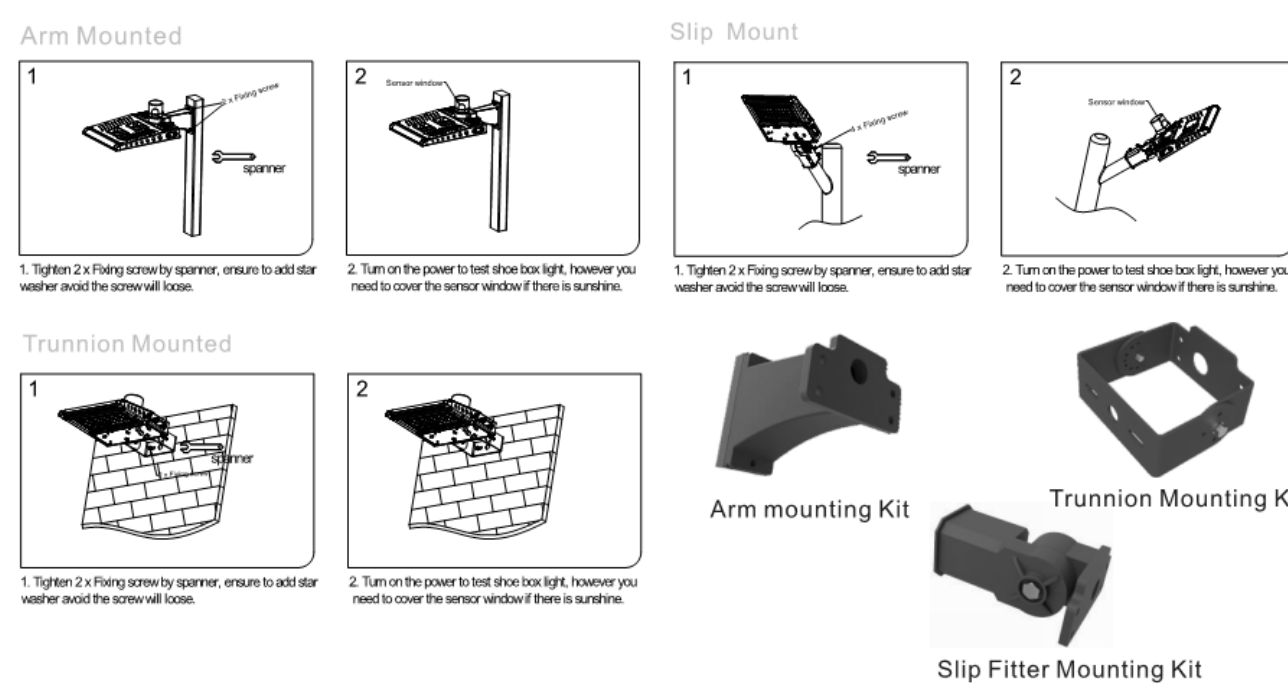
Applications



Ordering Guide

SB	80/100/120/150/200/300W	A1XYZ
Shoe Box light	Wattage	I=1,2,3 modules X=N, D (Non-dim or Dim) Y=27,30...65(CCT) Z=T3 (Type III beam angle)

Mounting Option



RM 1205, 12/F TAI SANG BANK BLDG 130-132 DES VOEUX RD CENTRAL HK. www.jamesindustry.com

4/4 Page

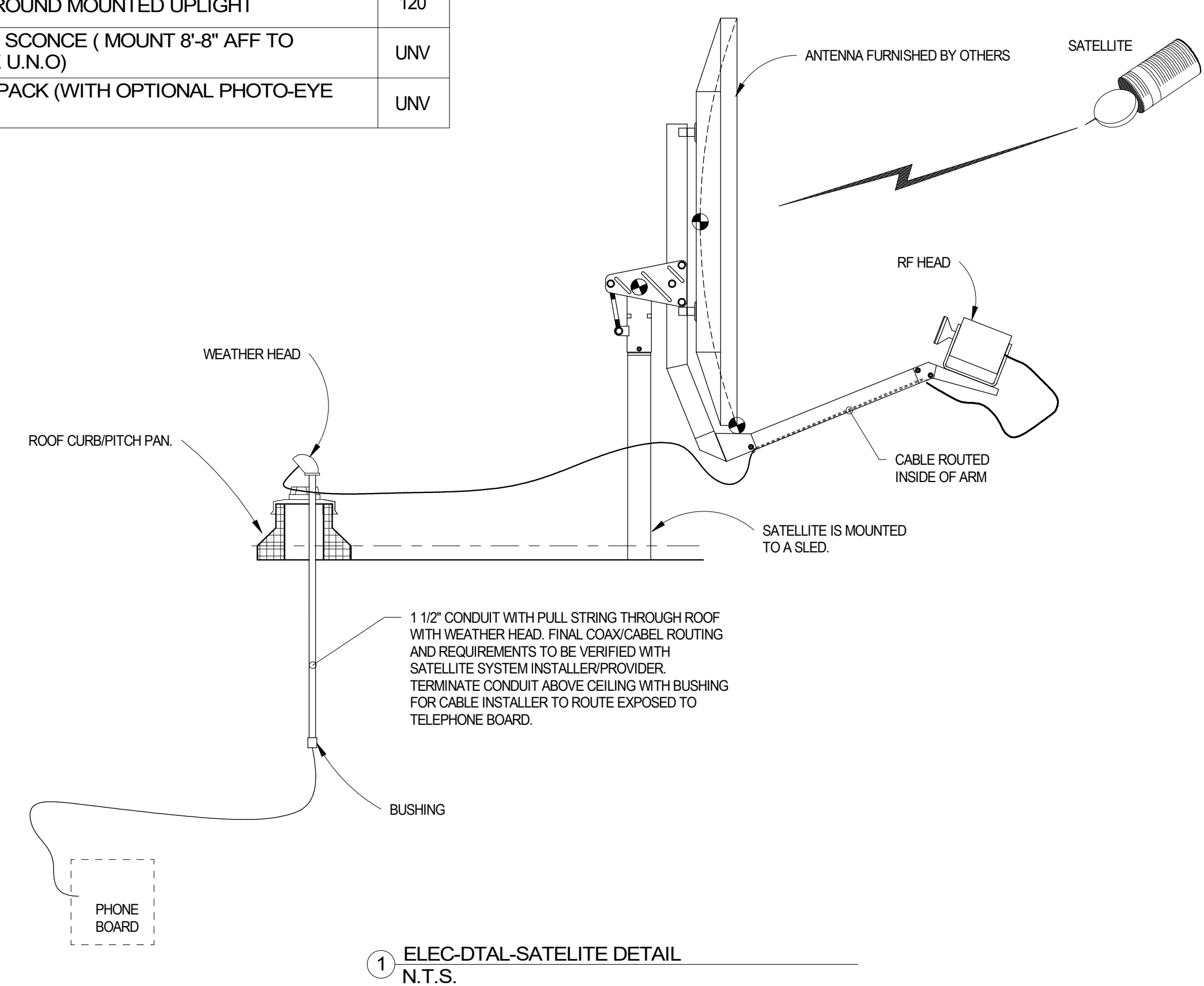
FIXTURE SCHEDULE

FIXT. TYPE	MANUFACTURER		VOLT AMPS	MOUNTING	LAMP TYPE	MTG HEIGHT	REMARKS	VOLT
	NAME	CATALOG NUMBER						
AA	LSI	MRS-LED-15L-SIL-3-UNV-DIM-40-70CRI-BLK	111	POLE	LED	20'-0"	POLE MOUNTED SITE LIGHT. 25'-0" FLAT LENS	UNV
AAHS	LSI	MRS-LED-15L-SIL-3-UNV-DIM-40-70CRI-BLK-IH	111	POLE	LED	20'-0"	POLE MOUNTED SITE LIGHT. 25'-0" FLAT LENS TO BE USED WITH HOUSE SIDE SHIELD	UNV
AA1HS	LSI	MRS-LED-15L-SIL-FT-UNV-DIM-40-70CRI-BLK-IH	111	POLE	LED	20'-0"	POLE MOUNTED SITE LIGHT. 25'-0" FLAT LENS TO BE USED WITH HOUSE SIDE SHIELD	UNV
BB	COOPER	BOCA 696 - 4000 KELVINS	8	GROUND	LED		WET PROTECTED-GROUND MOUNTED UPLIGHT	120
R	EATON	9004-W2-RW-LED4080-S-S-CS-LA-UNV-WIS	28.5	SURFACE	LED	8'-8"	EXTERIOR UP/DOWN SCENCE (MOUNT 8'-8" AFF TO CENTER OF FIXTURE U.N.O)	UNV
T	HUBBELL	LN3	60	SURFACE	LED	10'-6"	MIDSIZED LED WALLPACK (WITH OPTIONAL PHOTO-EYE SWITCH)	UNV

NOTES:
1. LUMINAIRES TO BE ON/OFF VIA LUTRON CONTROLS. LUMINAIRE ON/OFF HOURS TO BE SET BY OWNER.

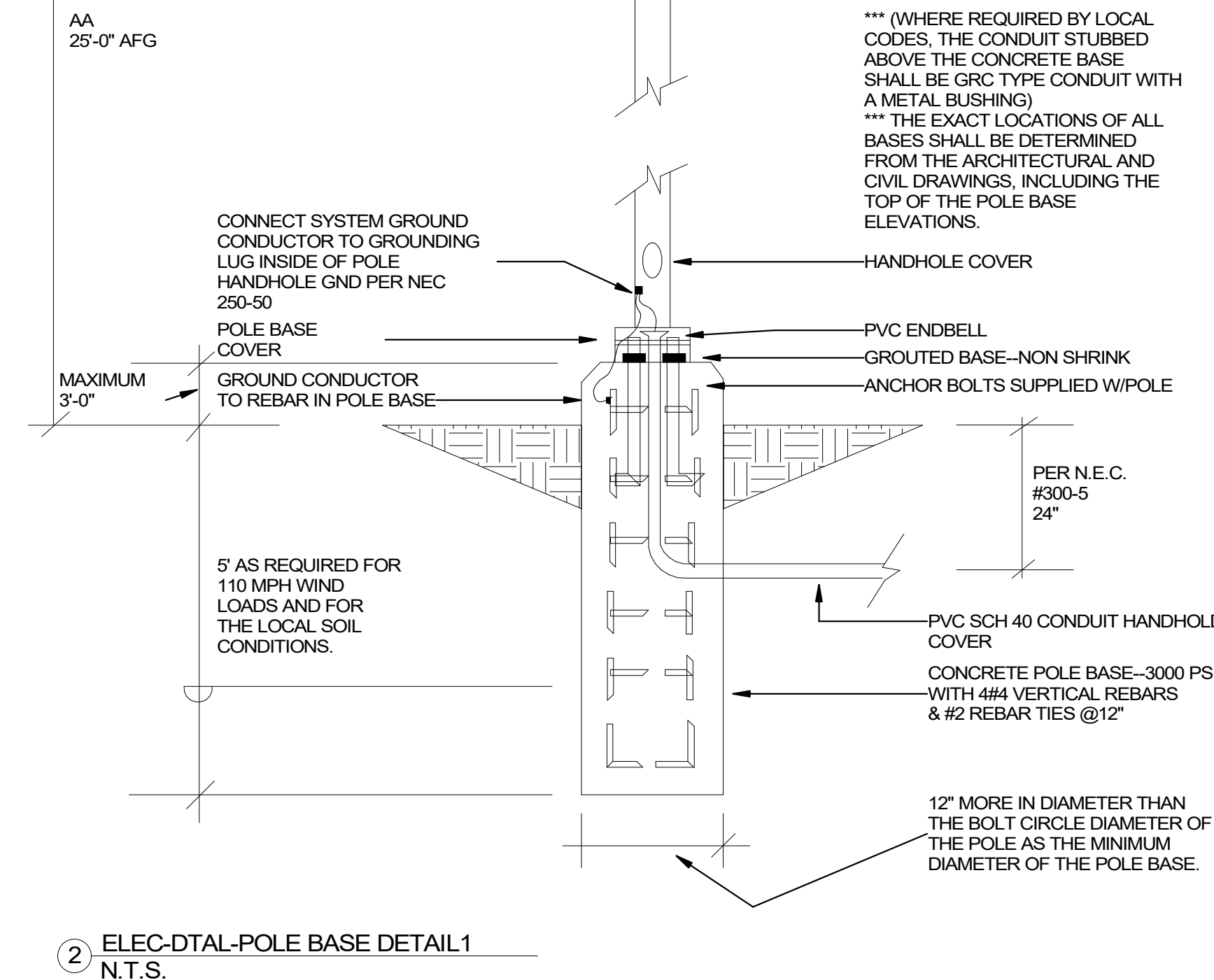
LUMINAIRE SCHEDULE

FIXT. TYPE	MANUFACTURER		FINISH	LAMP DATA	LAMP WATTS	MOUNTING METHOD	MTG HEIGHT	DESCRIPTION	VOLTS
	NAME	CATALOG NUMBER							
A	CREE	ZR24-50L40K-10V		LED	44	SURFACE		2X4 LED TROFFER	120
A-E	CREE	ZR24-50L40K-10V		LED	44	SURFACE		2X4 LED TROFFER (CONNECT TO NON-SWITCHED EMERGENCY CIRCUIT)	120
B	CREE	LS4-80L-40K-10V		LED	23	SURFACE		48" LED STRIP LIGHT SUSPENDED FROM CEILING AT 12' A.F.F.	120
C	PRESCOLITE	LF6LED		LED	33	RECESS		6" RECESS DOWNLIGHT	120
C-E	PRESCOLITE	LF6LED		LED	33	RECESS		6" RECESS DOWNLIGHT CONNECT TO NON-SWITCHED EMERGENCY CIRCUIT	120
D	CREE	LS8-80L-40K-10V		LED	72	SURFACE		96" LED STRIP LIGHT SUSPENDED FROM CEILING AT 12' A.F.F. EXCEPT WHERE SPECIFIED OTHERWISE	120
D-E	CREE	LS8-80L-40K-10V		LED	72	SURFACE		96" LED STRIP LIGHT SUSPENDED FROM CEILING AT 12' A.F.F. CONNECT TO NON-SWITCHED EMERGENCY CIRCUIT	120
F	CASABLANCA	CAPISTRANO 54029 (BLADES: 99007 54')				SURFACE		CEILING FAN (MOUNT 9'-0" AFF - INSTALL "LIGHTING BOX" FOR STABILITY)	120
R	EATON	9004-W2-RW-LED4080-S-S-CS-L1-UNV-WIS		LED	28.5	SURFACE		EXTERIOR UP/ DOWN SCENCE (MOUNT 8'-8" AFF TO CENTER OF FIXTURE U.N.O)	120
T	HUBBELL	LN3		LED	60	SURFACE		MIDSIZED LED WALLPACK (WITH OPTIONAL PHOTO-EYE SWITCH)	120
U	TECH LIGHTING	700UCF1985B-LED		LED	11	UNDER SHELF		UNDER SHELF LIGHTING (USE SPLICE BOX & JUMPER CONNECTORS)	120
X	JUNO	NXPCL3GWH-HO		LED		SURFACE		EXIT SIGN WITH EMERGENCY LIGHTING (EXIT SIGN / EMERGENCY COMBO FIXTURE WITH 90 MINUTE BATTERY BACKUP)	120
X1	LSI	EPM-SD2-WHT		A-19		SURFACE		120V EMERGENCY LIGHT FIXTURE REMOTE FROM EXIT SIGN/ EMERGENCY COMBO FIXTURE	120



① ELEC-DTAL-SATELLITE DETAIL N.T.S.

DO NOT INSTALL IN ANY UTILITY EASEMENT



② ELEC-DTAL-POLE BASE DETAIL 1 N.T.S.

LINGLED DESIGN GROUP, INC.
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PERMIT SET - 03/13/2023

SHERWIN WILLIAMS

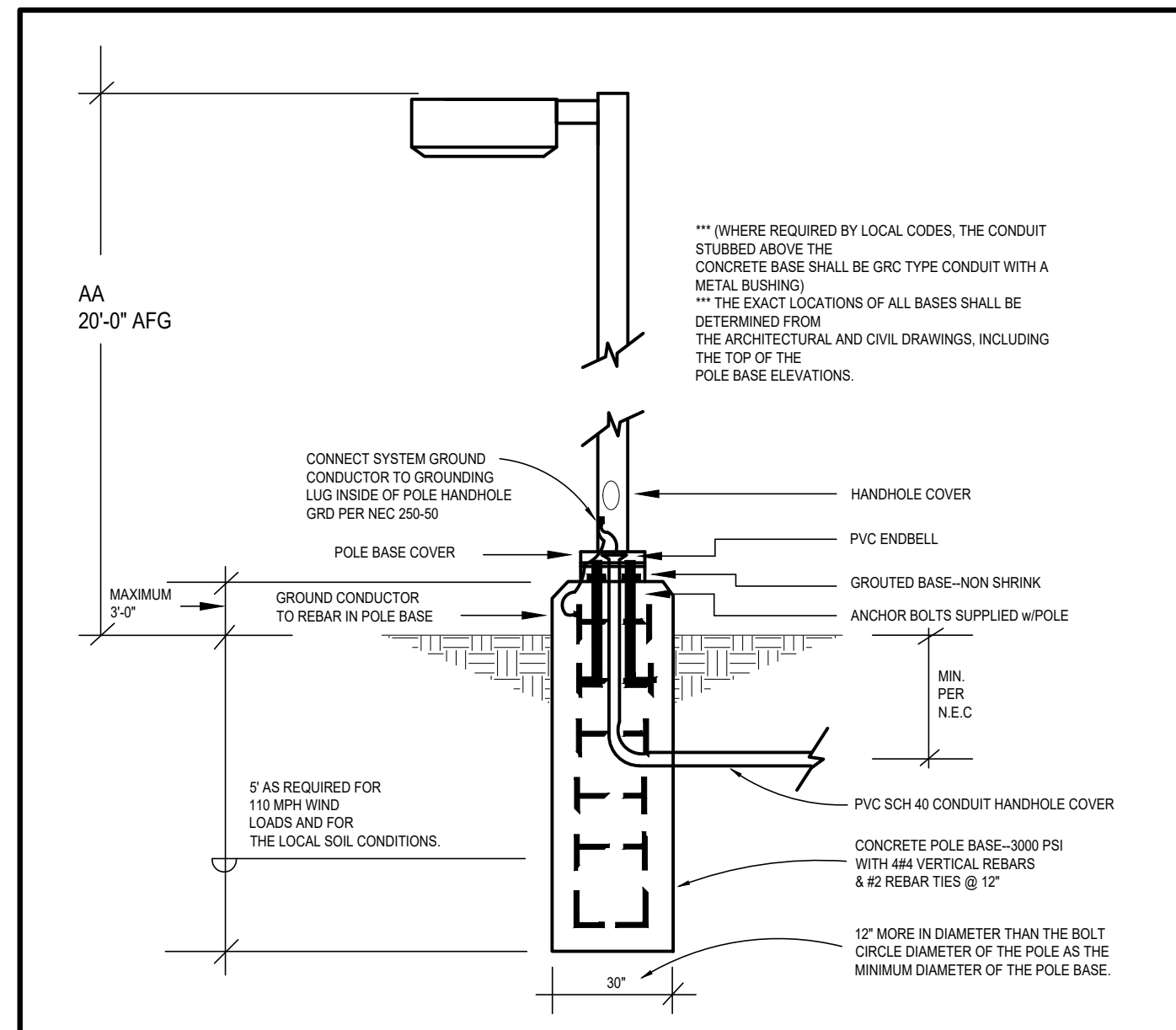
STORE #
XXXX
ADDRESS:
9091 FAIR OAKS PKWY.
FAIR OAKS RANCH, TX
78015

SHEET TITLE:
ELECTRICAL DETAILS

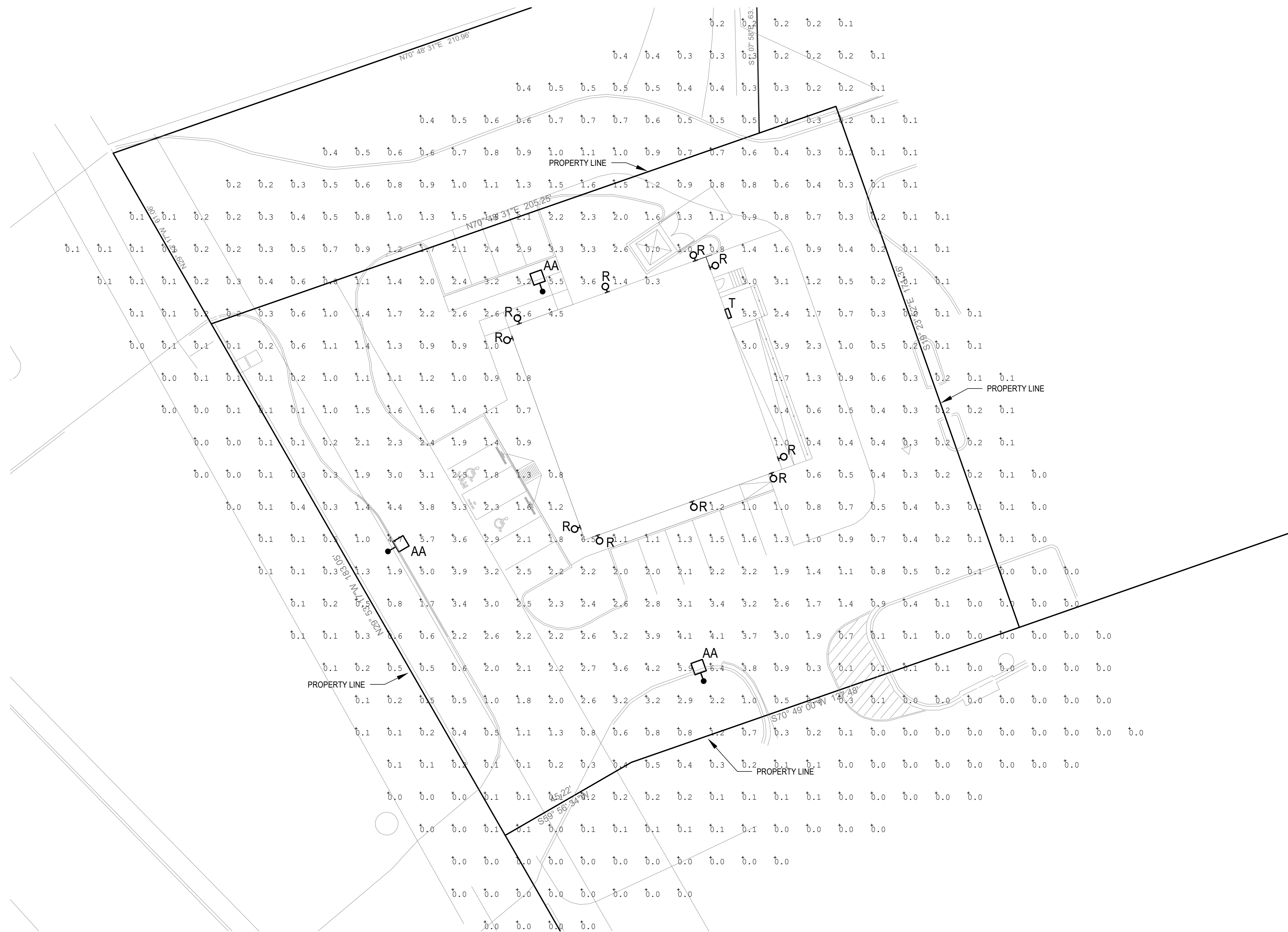
SHEET NUMBER:
E501

LUMINAIRE SCHEDULE

FIXT. TYPE	MANUFACTURER		FINISH	LAMP DATA	LAMP WATTS	MOUNTING METHOD	MTG HEIGHT	DESCRIPTION	VOLTS
	NAME	CATALOG NUMBER							
AA	LITHONIA LIGHTING	60C-1000-40K-R3-MVOLT-SPD-06-DBBXD		LED	216	POLE	20'-0"	POLE MOUNTED SITE LIGHT, 20'-0" FLAT LENS TO BE USED WITH HOUSE SIDE SHIELD	UNV
BB	COOPER	BOCA 696 - 4000 KELVINS		LED	8	GROUND		WET PROTECTED - GROUND MOUNTED UPLIGHT	120
R	EATON	9004-W2-RW-LED4080-S-S-CS-L1-UNV-WIS		LED	28.5	SURFACE	8'-0"	EXTERIOR UP/DOWN SCONCE (MOUNT 8'-8" AFF TO CENTER OF FIXTURE U.N.O.)	UNV
T	HUBBELL	LCN3		LED	60	SURFACE	10'-6"	MIDSIZED LED WALLPACK (WITH OPTIONAL PHOTO-EYE SWITCH)	UNV



2 TYPICAL POLE BASE DETAIL
scale: N.T.S.



1 PHOTOMETRIC PLAN
scale: 1"=20'-0"



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
OVERALL SITE	Illuminance	Fc	0.88	6.5	0.0	N.A.	N.A.
PARKING	Illuminance	Fc	2.05	3.3	1.0	2.05	3.30

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DRAWN BY: ATE CHECKED BY: JCAA

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FAIR OAKS RANCH, TX
78015

SHEET TITLE
PHOTOMETRIC PLAN

SHEET NUMBER:
EP100

TYPE 'AA'



KAD LED Area Luminaire

Category: Luminaire
Notes: See page 3 for ordering information.
Type: A+ Capable

Specifications
EPA: 12 ft (3.7 m)
Length: 17-1/2" (443 mm)
Width: 17-1/2" (443 mm)
Height: 7-1/8" (183 mm)
Weight (max): 28.5 lb (12.9 kg)

A+ Capable luminaire
This term is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

A+ Capable Luminaire
This term is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

Ordering information
EXAMPLE: KAD LED 40C 1000 40K R5 MVOLT SP04 DDBXD

Series	LEDs	Driver current	CCT	Beam/Beam	Voltage	Mounting	Shipping included	Shipping separately
KAD LED	20 LEDs	530	5000K	R2 Spot	MVOLT	277	SP04	147"
KAD LED	40 LEDs	700	5000K	R3 Spot	MVOLT	277	SP04	147"
KAD LED	80 LEDs	1000	5000K	R4 Spot	MVOLT	277	SP04	147"
KAD LED	160 LEDs	2000	5000K	R5 Spot	MVOLT	277	SP04	147"

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TYPE 'AA'

Performance Data

Lumen Output
Lumen output and beam diameter based on performance in accordance with IESNA LM-79-09. Data is considered the representation of the configuration shown, with the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Model	Beam Angle	Beam Diameter	Beam Diameter @ 100'	Beam Diameter @ 200'	Beam Diameter @ 300'	Beam Diameter @ 400'	Beam Diameter @ 500'	Beam Diameter @ 600'	Beam Diameter @ 700'	Beam Diameter @ 800'	Beam Diameter @ 900'	Beam Diameter @ 1000'
500W	30°	500W-30	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
		500W-30-1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
		500W-30-2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
		500W-30-3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
		500W-30-4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

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TYPE 'R'

Lumiere

DESCRIPTION
Lanterna 9004-W1 (Up or Down) and 9004-W2 (Up or Down) are 4.25" O.D., line voltage cylinder fixtures with dimmable LED. The luminaire comes in various mounting options, surface mount with integral driver in the housing, remote driver mount with round and square wall plates and square wall integral driver. It also comes with various lens, bezels and optics or dichroic filters which can combine up to two at once to create multiple lighting effects. The fixture may be used indoors or outdoors and carries IP66 rating.

COMPONENTS
Housing, hood and mounting stem are anodized aluminum. Housing is made of 6061-T6 aluminum. Housing is made of 6061-T6 aluminum. Housing is made of 6061-T6 aluminum.

FINISHES
Housing is constructed from 6061-T6 aluminum and is double protected by an IP66 compliant chemical film undercoating and polyester powder coat paint finish, supporting the rigorous demands of the outdoor environment. A variety of standard colors are available.

HOOD
Hood is removable and accepts up to ten internal accessories at once (lenses, louvers and filters) to achieve multiple lighting effects. When holes prevent water and mineral stains, design includes feature length, minimizes debris collection and prevents water and mineral stains from collecting on the lens.

INSTALLATION
Housing is made of 6061-T6 aluminum and is double protected by an IP66 compliant chemical film undercoating and polyester powder coat paint finish, supporting the rigorous demands of the outdoor environment. A variety of standard colors are available.

ORDERING INFORMATION

Series	LEDs	Driver current	CCT	Beam/Beam	Voltage	Mounting	Shipping included	Shipping separately
Lumiere	20 LEDs	530	5000K	R2 Spot	MVOLT	277	SP04	147"

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TYPE 'R'

Lanterna 9004

ACCESSORIES - ORDER SEPARATELY

Accessories	Part Number	Description
Lighting Control System	SCS-1	Lighting Control System
Occupancy Sensor	OS-1	Occupancy Sensor
Photo Eye	PE-1	Photo Eye
Daylight Sensor	DS-1	Daylight Sensor
Temperature Sensor	TS-1	Temperature Sensor
Humidity Sensor	HS-1	Humidity Sensor
CO2 Sensor	CS-1	CO2 Sensor
Pressure Sensor	PS-1	Pressure Sensor
Water Sensor	WS-1	Water Sensor
Freeze Sensor	FS-1	Freeze Sensor
Smoke Sensor	SS-1	Smoke Sensor
Gas Sensor	GS-1	Gas Sensor
Shock Sensor	SH-1	Shock Sensor
Vibration Sensor	VS-1	Vibration Sensor
Acoustic Sensor	AS-1	Acoustic Sensor
Ultrasonic Sensor	US-1	Ultrasonic Sensor
Infrared Sensor	IR-1	Infrared Sensor
Proximity Sensor	PS-1	Proximity Sensor
RFID Reader	RFID-1	RFID Reader
Barcode Reader	BR-1	Barcode Reader
Image Sensor	IS-1	Image Sensor
Thermal Imager	TI-1	Thermal Imager
Motion Detector	MD-1	Motion Detector
Door Contact	DC-1	Door Contact
Window Contact	WC-1	Window Contact
Perimeter Alarm	PA-1	Perimeter Alarm
Fire Alarm	FA-1	Fire Alarm
Gas Leak Detector	GLD-1	Gas Leak Detector
Water Leak Detector	WLD-1	Water Leak Detector
Freeze Protection	FP-1	Freeze Protection
Ice Detection	ID-1	Ice Detection
Snow Detection	SD-1	Snow Detection
Wind Speed Sensor	WSS-1	Wind Speed Sensor
Wind Direction Sensor	WDS-1	Wind Direction Sensor
Wind Gust Sensor	WGS-1	Wind Gust Sensor
Wind Chill Sensor	WCS-1	Wind Chill Sensor
Wind Speed and Direction Sensor	WSDS-1	Wind Speed and Direction Sensor
Wind Gust and Direction Sensor	WGDS-1	Wind Gust and Direction Sensor
Wind Chill and Direction Sensor	WCHDS-1	Wind Chill and Direction Sensor
Wind Speed, Direction and Gust Sensor	WSDGS-1	Wind Speed, Direction and Gust Sensor
Wind Speed, Direction, Gust and Chill Sensor	WSDGCS-1	Wind Speed, Direction, Gust and Chill Sensor

ROUND SURFACE MOUNT (ISM)
RSM W1 (Up or down)

ROUND SURFACE MOUNT (ISM)
RSM W2 (Up or down)

WALL INTEGRAL DRIVER PLATE (WIS)
WIS W1 (Up or down)

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TYPE 'T'

LNC3

FEATURES
• LNC3 is a mid-sized wallback in the popular LitePak series.
• This LNC3 features luminaires with 18° optics and four different luminaire packages, multiple distributions and CCT for maximum light level and mounting height flexibility.
• Capable of supporting up to 250W-HD solutions at over 70% energy savings.
• Energy efficient LEDs provide 70% energy savings with little to no maintenance when compared to traditional light sources.
• Typical mounting heights of 8-20'

CONTROL TECHNOLOGY
SiteSonic™ NX DISTRIBUTED INTELLIGENCE™ WISCAPÉ™

INSTALLATION (CONTINUED)
• Fixture attaches by two Allen-head hidden fasteners for tamper resistance.
• Designed for direct wire mount or conduit feed on all four sides in single SKU.
• 120-277, 24V and 48V voltage, 50/60Hz, 0-10V dimming drivers.
• Electronic driver.
• IMA surge protection.
• 5 year limited warranty.
• See LNC3 Standard Warranty for additional information.

WARRANTY
• 5 Year Limited Warranty
• See LNC3 Standard Warranty for additional information.

KEY DATA

Parameter	Value
Lumen Range	2,951-7503
Wattage Range	28-83
Efficiency Range (lm/W)	84-115
Fixture Projected Life (hours)	170-60K
Weights (lbs. (kg))	18.0 (8.2)

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TYPE 'T'

LNC3

ORDERING INFORMATION

Series	LEDs	Driver current	CCT	Beam/Beam	Voltage	Mounting	Shipping included	Shipping separately
LNC3	24 LEDs	3K	3000K nominal, 70 CR	R2 Spot	MVOLT	277	SP04	147"

ACCESSORIES AND SERVICES (ORDERED SEPARATELY)

Accessory Number	Description
LNC3-C	Control System
SCS-1	Lighting Control System
OS-1	Occupancy Sensor
PE-1	Photo Eye
DS-1	Daylight Sensor
TS-1	Temperature Sensor
HS-1	Humidity Sensor
CS-1	CO2 Sensor
PS-1	Pressure Sensor
WS-1	Water Sensor
FS-1	Freeze Sensor
SS-1	Smoke Sensor
GS-1	Gas Sensor
SH-1	Shock Sensor
VS-1	Vibration Sensor
AS-1	Acoustic Sensor
US-1	Ultrasonic Sensor
IR-1	Infrared Sensor
PS-1	Proximity Sensor
RFID-1	RFID Reader
BR-1	Barcode Reader
IS-1	Image Sensor
TI-1	Thermal Imager
MD-1	Motion Detector
DC-1	Door Contact
WC-1	Window Contact
PA-1	Perimeter Alarm
FA-1	Fire Alarm
GLD-1	Gas Leak Detector
WLD-1	Water Leak Detector
FP-1	Freeze Protection
ID-1	Ice Detection
SD-1	Snow Detection
WSS-1	Wind Speed Sensor
WDS-1	Wind Direction Sensor
WGS-1	Wind Gust Sensor
WCS-1	Wind Chill Sensor
WSDS-1	Wind Speed and Direction Sensor
WGDS-1	Wind Gust and Direction Sensor
WCHDS-1	Wind Chill and Direction Sensor
WSDGCS-1	Wind Speed, Direction and Gust Sensor
WSDGCS-1	Wind Speed, Direction, Gust and Chill Sensor

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NOTE: SEE SHEET EP-100 FOR SITE FIXTURE SCHEDULE

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PATRICK LEONARD
130345
PROFESSIONAL
LICENSED ARCHITECT

PROJECT #:
DRAWN BY: ATE
CHECKED BY: JCAA

REVISIONS

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FAIR OAKS RANCH, TX
78015

SHEET TITLE
PHOTOMETRIC CUTSHEETS

SHEET NUMBER:
EP101