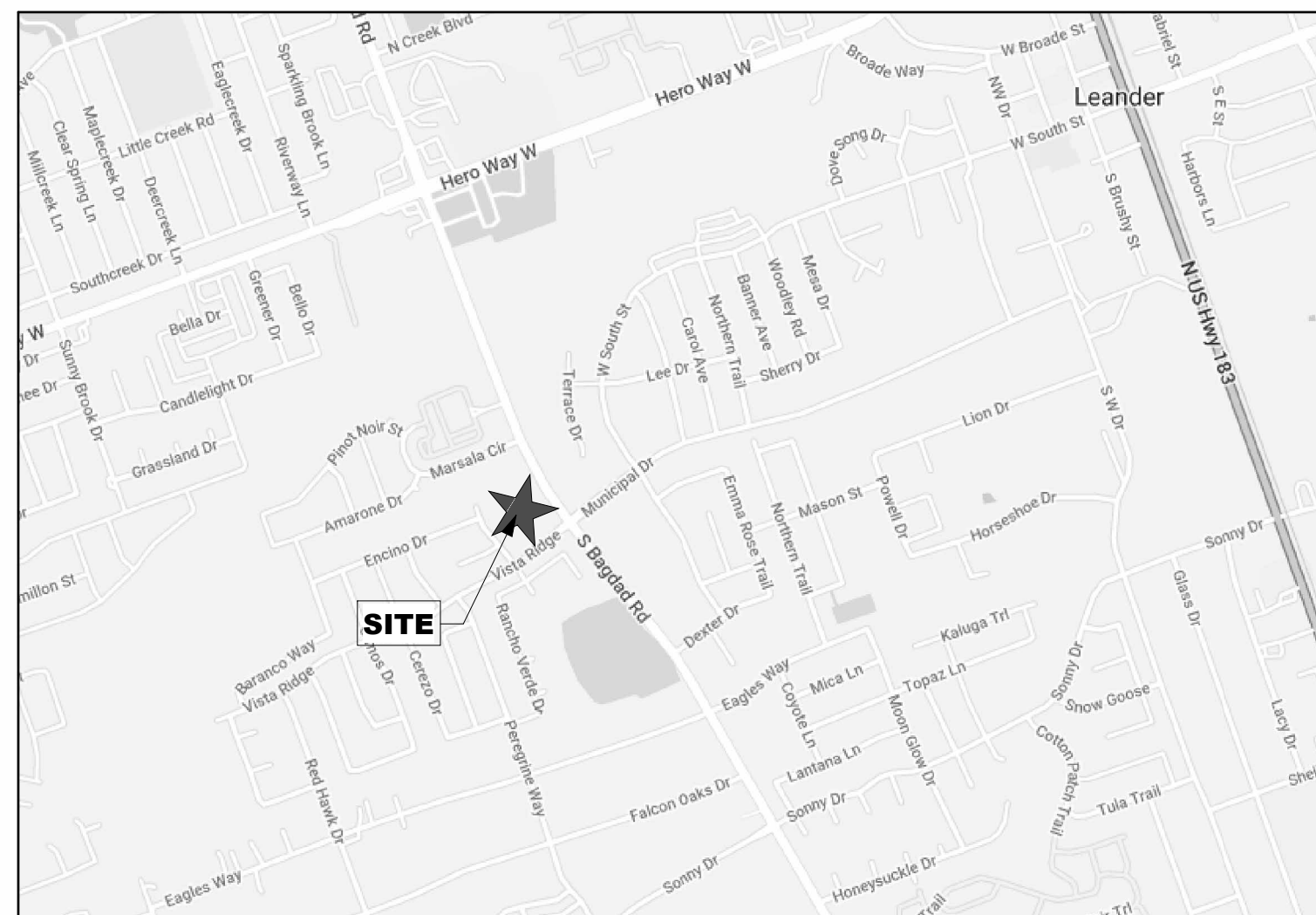




Weed Corley Fish

301 S. Bagdad Rd
Leander, TX 78641



Location Map
N.T.S.



Key Plan
N.T.S.

Owner:
SCI TEXAS FUNERAL SERVICES, LLC
1929 Allen Parkway
Houston, TX 77019
Contact: Austin Dicks
Email: austin.dicks@sci-us.com

General Contractor:
TBD

Design Team:
Architecture:
N-Vizion Design, LLC
5900 Shepherd Mountain Cove, Suite 2-250
Austin, TX 78730
512.327.9995
Contact: Stephen Hampton, PE, Architect
Email: shampton@n-vizion.net

Structural Engineering
ATS Engineers
4910 West Hwy. 290
Austin, TX 78735
512.328.6995
Contact: Greg Canter
Email: greg.canter@ats-engineers.com

Mechanical, Electrical and Plumbing
Infinity MEP+S Consultants
5316 W US Hwy 290 Service Rd - Suite 480
Austin, TX 78735
737.325.1687
Contact: Kelly Carranza
Email: kcarranza@infinitymep.com

DESCRIPTION OF WORK
NEW GROUND UP CONSTRUCTION FOR A FUNERAL HOME AND OFFICES.

SHEET	SHEET NAME	DATE	DESCRIPTION
A000	COVER SHEET	04/25/2025	Rev 2 CITY COMMENTS
A001	CODE ANALYSIS & GENERAL NOTES	04/25/2025	Rev 2 CITY COMMENTS
A010	ACCESSIBILITY DETAILS AND NOTES	10/25/2024	Rev1 Permit Set
A020	LIFE SAFETY PLAN AND DETAILS	04/25/2025	Rev 2 CITY COMMENTS
A040	ARCHITECTURAL SITE PLAN	04/25/2025	Rev2 CITY COMMENTS
A041	ARCHITECTURAL ENLARGED PLANS	10/25/2024	Rev1 Permit Set
A042	ARCHITECTURAL ENLARGED PLANS	04/25/2025	Rev 2 CITY COMMENTS
A100	OVERALL FLOOR PLAN	10/25/2024	Rev1 Permit Set
A110	OVERALL FINISHES PLAN	10/25/2024	Rev1 Permit Set
A120	OVERALL REFLECTED CEILING PLAN	10/25/2024	Rev1 Permit Set
A130	ROOF PLAN	10/25/2024	Rev1 Permit Set
A200	ENLARGED FLOOR PLAN - QUADRANT A	10/25/2024	Rev1 Permit Set
A201	ENLARGED FLOOR PLAN - QUADRANT B	04/25/2025	Rev2 City Comments
A202	ENLARGED FLOOR PLAN - QUADRANT C	04/25/2025	Rev 2 CITY COMMENTS
A203	ENLARGED FLOOR PLAN - QUADRANT D	04/25/2025	Rev 2 CITY COMMENTS
A210	ENLARGED FINISHES PLAN - QUADRANT A	10/25/2024	Rev1 Permit Set
A211	ENLARGED FINISHES PLAN - QUADRANT B	10/25/2024	Rev1 Permit Set
A212	ENLARGED FINISHES PLAN - QUADRANT C	10/25/2024	Rev1 Permit Set
A213	ENLARGED FINISHES PLAN - QUADRANT D	10/25/2024	Rev1 Permit Set
A220	ENLARGED REFLECTED CEILING PLAN - QUADRANT A	10/25/2024	Rev1 Permit Set
A221	ENLARGED REFLECTED CEILING PLAN - QUADRANT B	10/25/2024	Rev1 Permit Set
A222	ENLARGED REFLECTED CEILING PLAN - QUADRANT C	10/25/2024	Rev1 Permit Set
A223	ENLARGED REFLECTED CEILING PLAN - QUADRANT D	10/25/2024	Rev1 Permit Set
A300	MATERIAL SCHEDULE	04/25/2025	Rev2 CITY COMMENTS
A301	MATERIAL SCHEDULE	10/25/2024	Rev1 Permit Set
A302	DOOR, FINISH, AND HARDWARE SCHEDULES	04/25/2025	Rev2 CITY COMMENTS
A303	WINDOW SCHEDULE & WINDOW TYPES	10/25/2024	Rev1 Permit Set
A400	EXTERIOR ELEVATIONS	04/25/2025	Rev 2 CITY COMMENTS
A401	EXTERIOR ELEVATIONS	04/25/2025	Rev 2 CITY COMMENTS
A402	EXTERIOR ELEVATIONS - DUMPSTER	04/25/2025	Rev 2 CITY COMMENTS
A410	INTERIOR ELEVATIONS - PREMIER VENUE	10/25/2024	Rev1 Permit Set
A411	INTERIOR ELEVATIONS - STANDARD VENUE	10/25/2024	Rev1 Permit Set
A412	INTERIOR ELEVATIONS - BASIC VENUE, ARRANGEMENT ROOMS	10/25/2024	Rev1 Permit Set
A413	INTERIOR ELEVATIONS - MAIN CORRIDOR	10/25/2024	Rev1 Permit Set
A414	INTERIOR ELEVATIONS - RESTROOMS	10/25/2024	Rev1 Permit Set
A415	INTERIOR ELEVATIONS - BREAK ROOM, COFFEE BAR, DELIVERY, CORRIDOR	10/25/2024	Rev1 Permit Set
A420	BUILDING SECTIONS	10/25/2024	Rev1 Permit Set
A430	WALL SECTIONS	04/25/2025	Rev 2 CITY COMMENTS
A431	WALL SECTIONS	04/25/2025	Rev 2 CITY COMMENTS
A432	WALL SECTIONS	04/25/2025	Rev 2 CITY COMMENTS
A433	WALL SECTIONS	04/25/2025	Rev 2 CITY COMMENTS
A500	DETAILS	10/25/2024	Rev1 Permit Set
A600	MILLWORK DETAILS	10/25/2024	Rev1 Permit Set
CIVIL			
REF: CIVIL DRAWINGS FOR SHEET LIST			
STRUCTURAL			
S1.0	STRUCTURAL GENERAL NOTES	10/24/2024	Rev1 Permit Set
S2.0	FOUNDATION PLAN	10/24/2024	Rev1 Permit Set
S3.0	FOUNDATION DETAILS	10/24/2024	Rev1 Permit Set
S4.0	ROOF FRAMING PLAN	10/24/2024	Rev1 Permit Set
S5.0	FRAMING DETAILS	10/24/2024	Rev1 Permit Set
S5.1	FRAMING DETAILS	10/24/2024	Rev1 Permit Set
S6.0	WINDBRACE PLAN	10/24/2024	Rev1 Permit Set
S7.0	WINDBRACE DETAILS	10/24/2024	Rev1 Permit Set
MECHANICAL			
M0.01	MECHANICAL COVER SHEET	04/23/2025	City Comments
M0.02	MECHANICAL SCHEDULES	04/23/2025	City Comments
M0.03	MECHANICAL SCHEDULES	10/25/2024	Rev1 Permit Set
M0.04	MECHANICAL SPECIFICATIONS	10/25/2024	Rev1 Permit Set
M0.05	MECHANICAL SPECIFICATIONS	10/25/2024	Rev1 Permit Set
M2.01	MECHANICAL PLAN	10/25/2024	Rev1 Permit Set
M2.02	MECHANICAL PIPING PLAAN	10/25/2024	Rev1 Permit Set
M2.03	MECHANICAL ROOF PLAN	10/25/2024	Rev1 Permit Set
M3.01	MECHANICAL CEILING COORDINATION PLAN	10/25/2024	Rev1 Permit Set
M4.01	MECHANICAL VRF DIAGRAM	10/25/2024	Rev1 Permit Set
M4.02	MECHANICAL VRF DIAGRAM	10/25/2024	Rev1 Permit Set
M6.01	MECHANICAL DETAILS	10/25/2024	Rev1 Permit Set
M6.02	MECHANICAL DETAILS	10/25/2024	Rev1 Permit Set
M6.03	MECHANICAL DETAILS	10/25/2024	Rev1 Permit Set
M7.01	MECHANICAL CONTROLS	10/25/2024	Rev1 Permit Set
ELECTRICAL			
E0.01	ELECTRICAL COVER SHEET	10/25/2024	Rev1 Permit Set
E0.02	ELECTRICAL SPECIFICATIONS	10/25/2024	Rev1 Permit Set
E0.50	ELECTRICAL SITE PLAN	01/31/2025	City Comments
E1.00	ELECTRICAL SITE PHOTOMETRICS PLAN	04/23/2025	City Comments
E2.01	POWER PLAN	04/23/2025	City Comments
E2.02	POWER MECHANICAL PLAN	10/25/2024	Rev1 Permit Set
E3.01	LIGHTING PLAN	01/31/2025	City Comments
E7.00	PANEL SCHEDULES & RISER	01/31/2025	City Comments
PLUMBING			
P0.01	PLUMBING COVER SHEET	10/25/2024	Rev1 Permit Set
P0.02	PLUMBING SCHEDULES	10/25/2024	Rev1 Permit Set
P0.03	PLUMBING SPECIFICATIONS	10/25/2024	Rev1 Permit Set
P0.04	PLUMBING SPECIFICATIONS	10/25/2024	Rev1 Permit Set
P2.00	PLUMBING UNDERFLOOR PLAN	10/25/2024	Rev1 Permit Set
P2.01	PLUMBING FLOOR PLAN	04/23/2025	City Comments
P5.01	PLUMBING RISERS	10/25/2024	Rev1 Permit Set
P5.02	PLUMBING RISERS	10/25/2024	Rev1 Permit Set
P6.01	PLUMBING DETAILS	10/25/2024	Rev1 Permit Set



Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78641

N-VIZION
FORMS • ENVIRONMENTS • IMAGES

Cover Sheet
Project Number: 220502
N-Vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration No.: TX FE Firm F-1223, TX 25489, LA 6413 MI
1310069591, NV 6252, NC: 14883, OH: ARC1917885

Date:	Description:	By:	Check:
06/07/24	C31 Set	SA	SA
06/09/25	Rev2 City Comments		

A000



04/09/25

CONTRACT NO. 2025-0234, L.L.C.
N-VIZION DESIGN, L.L.C. 5900 Shepherd Mountain Cove, Ste. 2-250
N-VIZION DESIGN, L.L.C. 5900 Shepherd Mountain Cove, Ste. 2-250
301 S. Bagdad Rd., Leander, TX 78641
REGISTRATION NO.: TX PE Firm F-1223, TX 25489, LA 6413 ME
131006951, NV 6252, NC: 14885, OH: ARC 1917885

Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78641

N-VIZION
FORMS - ENVIRONMENTS - IMAGES

Code Analysis and General Note

Project Number: 202502
N-VIZION DESIGN, L.L.C. 5900 Shepherd Mountain Cove, Ste. 2-250
N-VIZION DESIGN, L.L.C. 5900 Shepherd Mountain Cove, Ste. 2-250
301 S. Bagdad Rd., Leander, TX 78641
REGISTRATION NO.: TX PE Firm F-1223, TX 25489, LA 6413 ME
131006951, NV 6252, NC: 14885, OH: ARC 1917885

Date:	Description:
06/07/24	CD Set
06/09/25	Rev'd City Comments

A001

2

CODE ANALYSIS

APPLICABLE CODES

BUILDING:	2015	INTERNATIONAL BUILDING CODE
	2021	INTERNATIONAL BUILDING CODE, TABLES 1004.1.2 AND 1004.5 FROM SECTION 2902.2
ELEC:	2014	NEC
MECH:	2015	INTERNATIONAL MECHANICAL CODE
PLUMB:	2015	INTERNATIONAL PLUMBING CODE
	2021	INTERNATIONAL PLUMBING CODE, SECTION 403.2
ACCESS:	2012	TEXAS ACCESSIBILITY STANDARDS W/TECH. MEMOS.
FIRE:	2015	INTERNATIONAL FIRE CODE
ENERGY:	2015	INTERNATIONAL ENERGY CONSERVATION CODE

OCCUPANCY GROUP - CHAPTER 3

OCCUPANCY GROUP
A-3 - FUNERAL PARLOR

DESCRIPTION OF USE:
FUNERAL HOME BUSINESS THAT PROVIDES FUNERAL SERVICES FOR FAMILIES INCLUDING SERVICE FOR A WAKE AND USE OF THE CHAPEL.

OCCUPANCY SEPARATIONS - CHAPTER 3

NONE

AREA SEPARATION REQUIREMENTS - TABLE 302.3.2:

NONE

BUILDING HEIGHT - CHAPTER 5

MAX. STORIES ALLOWED	2
PROPOSED STORIES	1
MAX. HEIGHT ALLOWED	60 FT
PROPOSED HEIGHT	27 FT

BUILDING AREAS - CHAPTER 5

MAX TABULAR AS AREA ALLOWED	24,000 SF
-----------------------------	-----------

ACTUAL AREA OF PROPOSED BLDG 10188 SF

OCCUPANT LOAD/AREA CALC. - TABLE 1004.5 2021 IBC

TOTAL EXITS REQ'D ON GROUND FLOOR	3
TOTAL EXITS PROVIDED ON GROUND FLOOR	3

SPACE	AREA	FACTOR	OCCUP'S	REQ'D EXITS	EGRESS CLASSIFICATION
PREMIER VENUE	2,178	7	312	2	ASSEMBLY W/OUT FIXED SEATS-CO
STANDARD VENUE	1,274	7	182	2	ASSEMBLY W/OUT FIXED SEATS-CO
LOUNGE	389	7	56	2	ASSEMBLY W/OUT FIXED SEATS-CO
ARRANGEMENT	673	150	5	1	BUSINESS AREA
BASIC VENUE	288	7	39	1	ASSEMBLY W/OUT FIXED SEATS-CO
GARAGE	809	150	6	1	BUSINESS AREA
STOR/JAN/ELEC	486	300	2	1	ACCESSORY STORAGE AREAS, MECH
OFFICE	813	150	6	1	BUSINESS AREA
DELIVERY	69	150	1	1	BUSINESS AREA
BREAK ROOM	236	150	2	1	BUSINESS AREA
CORRIDOR	2,150	150	15	1	BUSINESS AREA
DRESSING	154	150	2	1	BUSINESS AREA
COFFEE	149	150	1	1	BUSINESS AREA
RESTROOMS	540	150	4	1	BUSINESS AREA
TOTAL OCCUPANT LOAD			633	3	

CONSTRUCTION TYPE - CHAPTER 6

TYPE | V8 | FALSE

DESCRIPTION OF CONSTRUCTION:
WOOD STUD WALLS AND WOOD TRUSS ROOF AND CONCRETE FOUNDATION

SEPARATION DISTANCE - TABLE 602

NORTH	212 FT TO PROPERTY LINE	NO RATING REQ'D
EAST	26 FT TO PROPERTY LINE	NO RATING REQ'D
SOUTH	90 FT TO PROPERTY LINE	NO RATING REQ'D
WEST	308 FT TO PROPERTY LINE	NO RATING REQ'D
AVG DIST	199	

INT. WALL & FINISH REQUIREMENTS - TABLE 803.5

GROUP	VERT. EXITS	EXIT ACCESS	ROOMS/ ENC. SPACES
A-3 - FUNERAL PARLOR	B	B	C

AUTOMATIC FIRE PROTECTION SYSTEMS - CHAPTER 9

BUILDING TO BE FULLY SPRINKLERED	▼
MANUAL FIRE ALARM SYSTEM PROVIDED	▼
SMOKE DETECTORS NOT REQUIRED	▼

PLUMBING FIXTURE COUNT - TABLE 2902.1

TOTAL OCCUPANT LOAD	633 PEOPLE	
	316.5 MEN	316.5 WOMEN

MEN	RATIOS	REQ'D	PROVIDED
WATER CLOSETS	150	4	2
LAVATORIES	200	2	2
URINALS			2

*URINALS CAN REPLACE UP TO 50% OF REQ'D WATER CLOSETS

WOMEN	RATIOS	REQ'D	PROVIDED
WATER CLOSETS	75	5	4 + 1 UNISEX
LAVATORIES	200	2	2 + 1 UNISEX
SERVICE SINKS REQ'D		1	1
DRINKING FOUNTAINS REQ'D	1000	1	1

EXIT SEPARATION - SECTION 1014.2.1

MAX. DIAGONAL OF OVERALL SPACE	140 FT
MIN. DISTANCE BETWEEN EXITS	47 FT
DISTANCE BETWEEN EXITS PROVIDED	78 FT
	1/3 OVERALL DIAG.

TRAVEL DISTANCE - SECTION 1015

MAXIMUM DISTANCE ALLOWED	250 FT
MAXIMUM DISTANCE PROVIDED	78 FT

REQUIRED EGRESS WIDTH - SECTION 1005

	EGRESS FACTOR	CALCD WIDTH	REQ'D WIDTH	WIDTH PROVIDED
STAIR	0.2	NA IN	NA IN	NA IN
OTHER	0.15	94.95 IN	94.95 IN	200 IN

Legend:

DETAIL/ELEVATION DRAWING MARKER	
SECTION MARKER	
WINDOW LABEL - REF. SCHEDULES	W000
DOOR LABEL - REF. SCHEDULES	D000
ELEVATION MARKER	
KEYNOTE	
CONCRETE	
WOOD FLOORING	
TILE	
CARPET	
MILKWOOD	
PLYWOOD	
STEEL	
ALUMINUM	
CMU	
MASONRY	
EARTH	
RIGID INSULATION	
BATT INSULATED WALL	
2-HOUR FIRE RATED WALL	

NOTE: REF. FINISHES AND SPECS FOR SPECIFIC TYPES OF DIFFERENT FINISHES

GENERAL NOTES

- ALL NOTES ON GENERAL NOTES SHEET APPLY TO ALL DRAWINGS AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO READ, UNDERSTAND AND ADHERE TO ALL NOTES.
- REFERENCE STRUCTURAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ALL STRUCTURAL ELEMENTS.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES ADOPTED BY LOCAL JURISDICTION. REF. CODE ANALYSIS FOR LIST OF CODES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A COPY OF A UL DESIGN MANUAL ON SITE AND TO INSURE THAT ALL DESIGN REQUIREMENTS NOT NOTED ON THE DRAWINGS ARE MET.
- ALL PENETRATIONS INTO OR THROUGH FIRE RATED WALLS, CEILINGS, FLOORS AND ROOFS SHALL BE FIRE STOPPED PER CODE.
- ALL WALL COVERINGS TO COMPLY WITH CODE ADOPTED BY AUTHORITY HAVING JURISDICTION, SPECIFICALLY BUT NOT LIMITED TO THE REQUIRED FIRE CLASS AND RATING.
- FLOOR FINISH MATERIAL TRANSITIONS SHALL HAVE EDGE OR JOINT COVERS. INSURE TRANSITIONS ARE IN COMPLIANCE W/ T.A.S.
- ALL BREAKS IN FLOOR FINISHES WHICH OCCUR AT DOOR OPENINGS SHALL BE CENTERED AT CENTER OF DOOR IN THE CLOSED POSITION.
- REFER TO DOOR SCHEDULE FOR DOOR DETAILS: GASKETED, SWEEPS, KICKPLATES, PUSHPLATES, DOORSTOPS, ETC. INSTALL COMMERCIAL GRADE.
- PROVIDE SAFETY GLASS & WALL/CEILING/FLOOR COVERINGS PER CODE ADOPTED BY LOCAL JURISDICTION.
- PROVIDE FIRE TREATED BLOCKING IN WALLS FOR ALL MATERIALS TO BE WALL MOUNTED.
- REFER TO FINISH & MATERIAL SCHEDULES FOR FINISHES, TYPICAL.
- ALL REQUIRED LIFE SAFETY AND ACCESSIBILITY SIGNAGE AND GRAPHICS TO BE INSTALLED PER THE APPROPRIATE CODE PRIOR TO OCCUPANCY OF THE BUILDING.
- CONSULT N-VIZION PRIOR TO CONSTRUCTION IN CASES WHERE CONFLICTS EXIST BETWEEN ARCHITECTS AND ENGINEERS DRAWINGS.
- DIMENSIONS ARE REFERENCED TO:
A. FACE OF FRAMING
B. FACE OF CONCRETE
C. COLUMN STRUCTURE GRID LINE
RESTROOM ELEVATIONS AND ACCESSIBILITY DTLS DIMENSIONS ARE REFERENCED TO.

- A. FACE OF SHEETROCK
B. FACE OF TILE
C. FACE OF PARTITION
PLANS LABELED AS "PERMIT SET" OR "BID SET" MAY BE USED FOR PRELIMINARY BIDS WHICH SHOULD BE REGARDED AS PRELIMINARY ESTIMATES. FINAL BIDS SHOULD BE BASED ON THE "CONSTRUCTION SET". FAILURE TO DO SO MAY LEAD TO UNNECESSARY ADDITIONAL EXPENSES TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND EXISTING CONDITIONS OF THE BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE BID OR PROPOSAL FOR ADDITIONAL MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION BEEN MADE. AND SHALL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR IS ENCOURAGED TO MAKE COST SAVING SUGGESTIONS AS TO MATERIALS AND MEANS OF CONSTRUCTION DURING BOTH THE BID PHASE AND CONSTRUCTION PHASE. ANY SUGGESTIONS REQUIRE SUBMITTAL IN WRITTEN COPY OR DIGITAL FORM TO N-VIZION. WRITTEN APPROVAL BY N-VIZION IS REQUIRED PRIOR TO EXECUTION IN THE FIELD. N-VIZION AND THE OWNER RESERVE THE RIGHT TO REJECT ALTERNATE SUGGESTIONS FOR ANY REASON.
- PRIOR TO STARTING CONSTRUCTION THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER APPROVALS FROM GOVERNMENTAL AGENCIES OR OTHER REGULATORY AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A COPY OF ALL APPLICABLE CODES AND THEIR AMENDMENTS ADOPTED BY LOCAL JURISDICTION AT THE JOB SITE.
- CONTRACTOR IS RESPONSIBLE FOR SEQUENCE AND MEANS OF CONSTRUCTION AND SHALL SUPERVISE THE WORK AND COORDINATE ALL PORTIONS THEREOF.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACTS AND OMISSIONS OF ALL HIS EMPLOYEES AND SUBCONTRACTORS.
- BEFORE PERFORMING ANY WORK OR ORDERING ANY MATERIALS, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF ANY EXISTING OR NEW WORK AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY. ANY DIFFERENCES FOUND SHALL BE SUBMITTED TO N-VIZION FOR CONSIDERATION BEFORE PROCEEDING WITH THE WORK. ENLARGED SCALE DRAWINGS/DETAILS SHALL GOVERN OVER SMALLER SCALED

- DRAWINGS, SPECIFICATIONS SHALL GOVERN OVER ALL.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITY COMPANIES AND TO VERIFY THE EXISTING LOCATION AND DEPTH OF THE UTILITIES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE.
- CONTRACTOR SHALL COORDINATE ALL DELIVERIES AND ACCESSIBILITY TO THE BUILDING FOR ALL ITEMS SUCH AS, BUT NOT LIMITED TO THE FOLLOWING: FURNITURE, FIXTURES, EQUIPMENT, ACCESSORIES.
- ALL MATERIALS AND EQUIPMENT INCORPORATED IN THE WORK SHALL BE NEW UNLESS OTHERWISE SPECIFIED AND ALL WORK SHALL BE OF GOOD QUALITY, FREE FROM FAULTS AND IN CONFORMANCE WITH THE PLANS.
- ALL GLAZED OPENINGS SHALL BE FIELD VERIFIED AND COORDINATED WITH SHOP DRAWINGS BEFORE ORDERING.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNERS N-VIZION FOR APPROVAL PRIOR TO FABRICATION OF ANY ITEM. FAILURE TO ADHERE TO THIS PROCEDURE SHALL PLACE FULL RESPONSIBILITY FOR ANY ERRORS DIRECTLY UPON THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE A SAMPLE IN INCONSPICUOUS LOCATIONS FOR ALL STAIN AND PAINT FINISHES. FOR APPROVAL BY N-VIZION/OWNER PRIOR TO FINAL FINISHING. FINAL FINISHING WITHOUT APPROVED SAMPLES MAY REQUIRE REFINISHING AS DIRECTED BY N-VIZION AT THE CONTRACTOR'S EXPENSE.
- PROTECT ALL METAL IN CONTACT WITH DISSIMILAR METALS.
- ALL GYPSUM BOARD TO BE SIF UNLESS NOTED OTHERWISE: IN WET AREAS MOISTURE RESISTANT GYPSUM SHALL BE USED.
- DURING THE COURSE OF WORK IF THE CONTRACTOR OR ITS AGENTS SHOULD DAMAGE OR DESTROY ANY EXISTING WORK WHICH IS TO REMAIN THEN THE CONTRACTOR SHALL REPAIR OR REPLACE THE DAMAGED WORK TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS OPERATIONS. AT THE COMPLETION OF THE WORK HE SHALL PERFORM A FINAL CLEAN-UP INSIDE. CLEAN ALL GLASS SURFACES AND LEAVE THE WORK ROOM CLEAN.
- DO NOT SCALE DRAWINGS. DRAWINGS ARE GENERALLY DRAWN TO SCALE HOWEVER, DIMENSIONS, LABELS AND NOTES TAKE PRECEDENCE OVER SCALE. CONTRACTOR SHALL CHECK FOR DISCREPANCIES IN DIMENSIONS AND LABELS PRIOR TO BEGINNING WORK OR ORDERING MATERIALS. DISCREPANCIES SHALL BE REPORTED TO N-VIZION.
- LOCATIONS OF MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT AND

- ACCESSORIES SHOWN ON PLANS ARE APPROXIMATE, THE ACTUAL LOCATION IS TO BE DETERMINED BY CONTRACTOR. LOCATION IS SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER.

- CONTRACTOR SHALL CONFINE HIS APPARATUS, STORAGE OF MATERIALS AND OPERATIONS OF HIS MATERIALS AND OPERATIONS OF HIS WORKMEN TO LIMITS INDICATED BY LAW, ORDINANCES, AND PERMITS AND SHALL ARRANGE AND MAINTAIN PARKING OF VEHICLES AND STORAGE OF MATERIALS IN AN ORDERLY MANNER LEAVING ALL WALKS, DRIVEWAYS, ROADS AND ENTRANCES UNOCCLUDED.

- CONTRACTOR TO SUBMIT PLUMBING AND ELECTRICAL FIXTURE CUTS TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

- THE CONTRACTOR TO VERIFY THE LOCATION OF ALL GRADES, LINES, CURBS, UTILITIES, MANHOLES, HYDRANTS, FENCES, TREES, AND OTHER PHYSICAL OBSTRUCTIONS PRIOR TO COMMENCING WORK.

- ALL MATERIALS AND EQUIPMENT INCORPORATED IN THE WORK SHALL BE NEW U.N.O. AND ALL WORK SHALL BE OF GOOD QUALITY, FREE FROM FAULTS AND IN CONFORMANCE WITH THE PLANS.

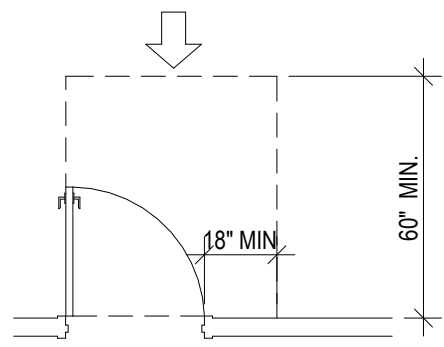
- SUBSTITUTIONS, REVISIONS, OR CHANGES MAY BE ALLOWED ONLY IF SUCH ITEMS ARE SUBMITTED TO THE OWNER IN A TIMELY MANNER IN WRITING AND SUBSEQUENTLY APPROVED BY THE ARCHITECT IN DESIGN AND PERFORMANCE. THE CONTRACTOR IS LIABLE FOR REPLACEMENT, REPAIR AND DELAYS CAUSED BY ANY UNAUTHORIZED SUBSTITUTION, AND COMPLETE SPECIFICATIONS AND DRAWINGS AS REQUIRED COMPARING ITEMS. THE OWNER RESERVES THE RIGHT TO REJECT FOR ANY REASON.

- CONTRACTOR SHALL SUBMIT ALL WOOD STAIN AND SPECIALTY FINISHES SAMPLES TO THE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO FINAL FINISHING. IF FAILURE TO SUBMIT SAMPLES FOR APPROVAL THE CONTRACTOR WILL BE RESPONSIBLE FOR REFINISHING TO THE ARCHITECT AND OWNERS SATISFACTION.

- CONTRACTOR TO BALANCE SYSTEM FOR ADEQUATE AIR DISTRIBUTION WITHIN ALL CONDITIONED AREAS TO THE OWNERS SATISFACTION. (UNLESS CERTIFIED TEST & BALANCE REPORT IS REQUIRED BY LOCAL AUTHORITY).

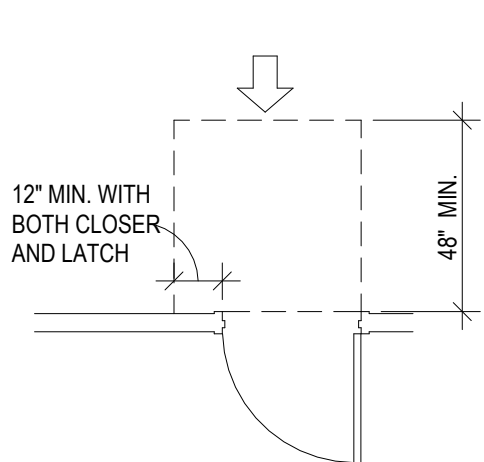
- ALL WATERPROOFING PRODUCTS TO BE INSTALLED PER THE RECOMMENDATIONS OF THE MANUFACTURER. REFER TO MANUFACTURER'S DETAILS AND SPECIFICATIONS FOR REQUIREMENTS.

Date:	Description:
06/07/24	CD Set
10/25/24	Rev1 Permit Set



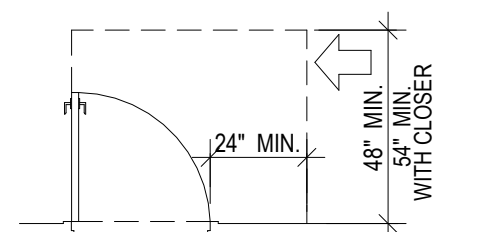
01 Front Approach

1/4"=1'-0"



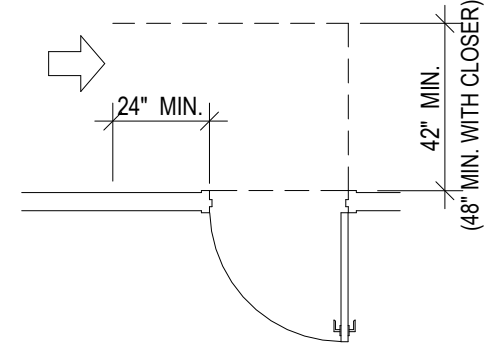
02 Front Approach

1/4"=1'-0"



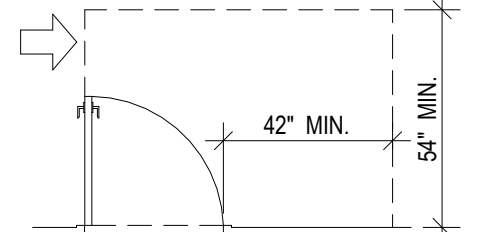
03 Latch Approach

1/4"=1'-0"



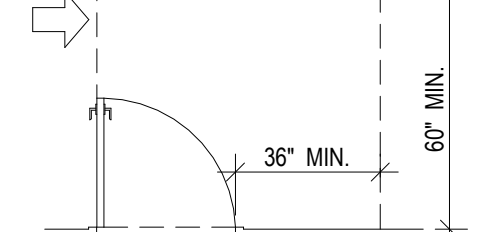
04 Latch Approach

1/4"=1'-0"



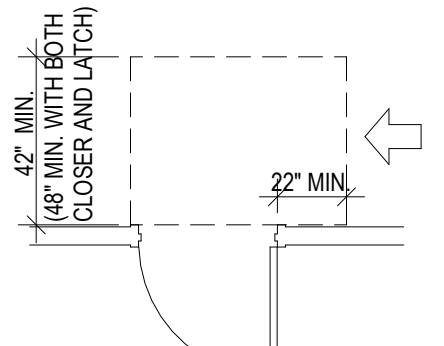
05 Hinge Approach

1/4"=1'-0"



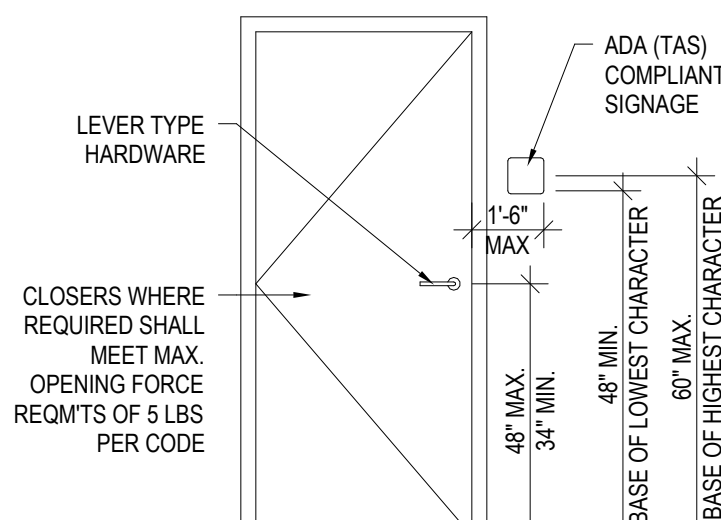
06 Hinge Approach

1/4"=1'-0"



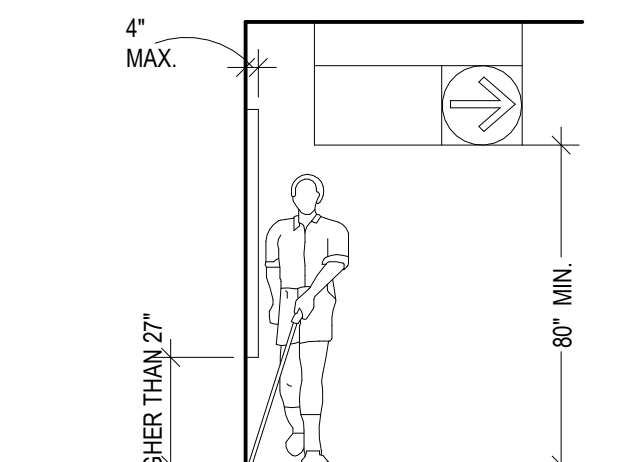
07 Hinge Approach

1/4"=1'-0"



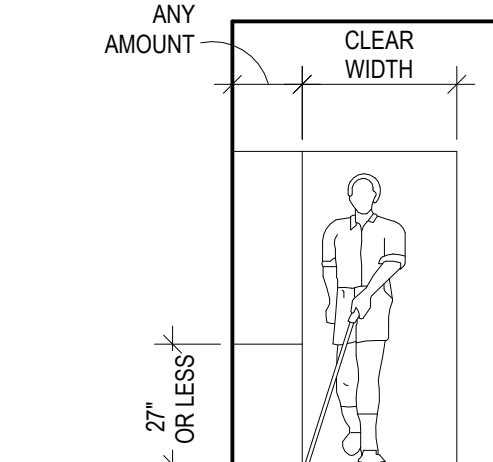
08 Accessible Door

1/4"=1'-0"



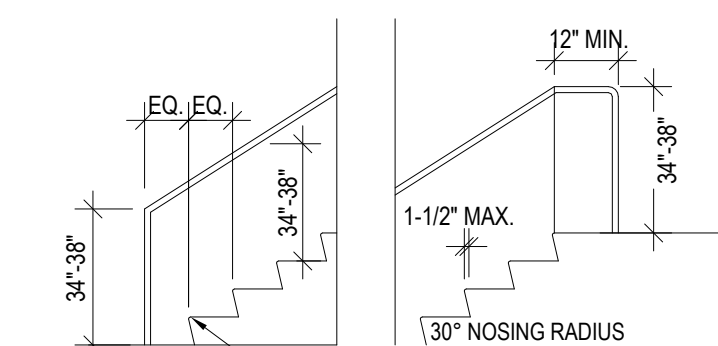
09 Protruding Objects

1/4"=1'-0"



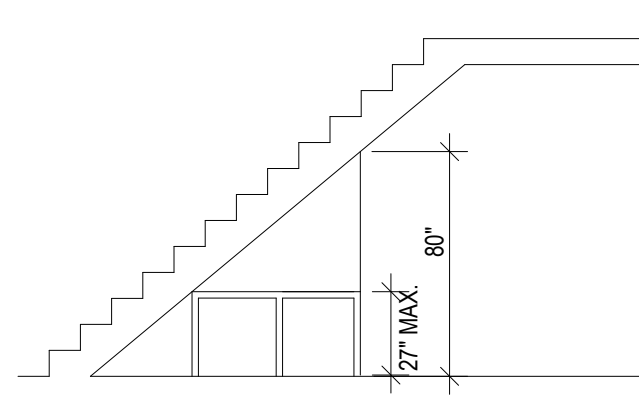
10 Protruding Objects

1/4"=1'-0"



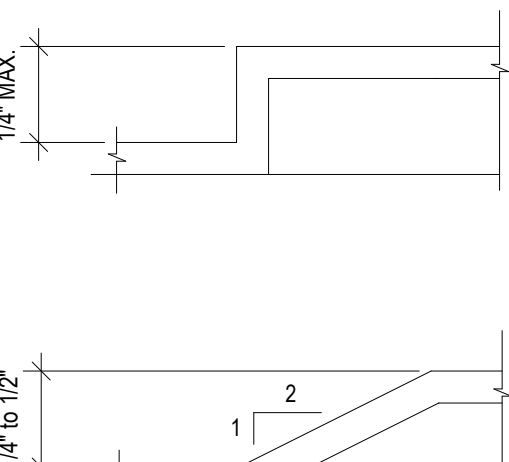
11 Accessible Stairs & Handrail

1/4"=1'-0"



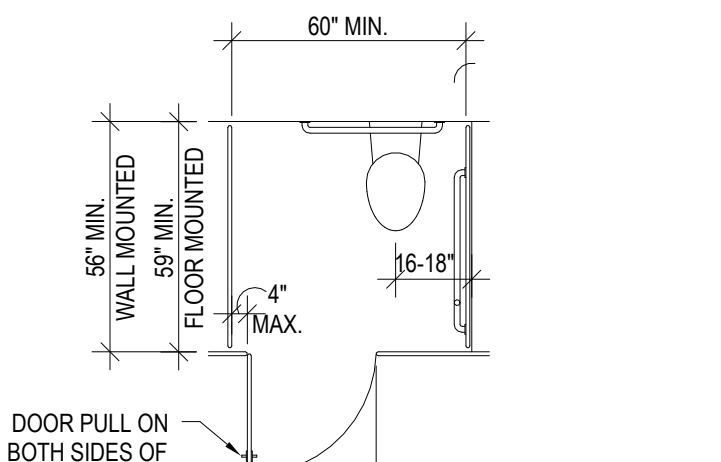
12 Cane Detection

1/4"=1'-0"



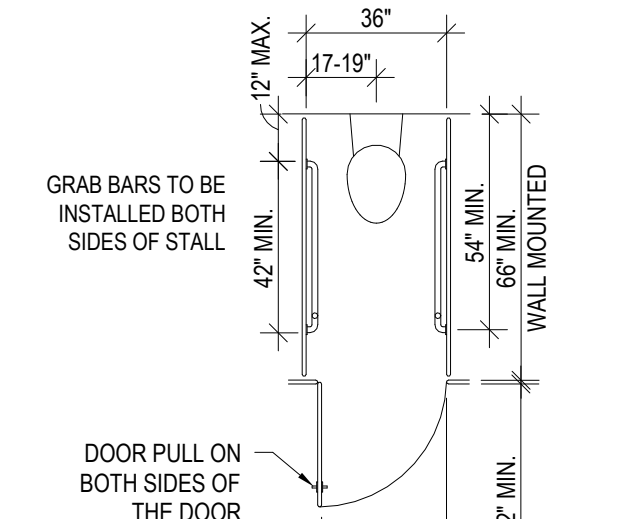
13 Accessible Transition

1/4"=1'-0"



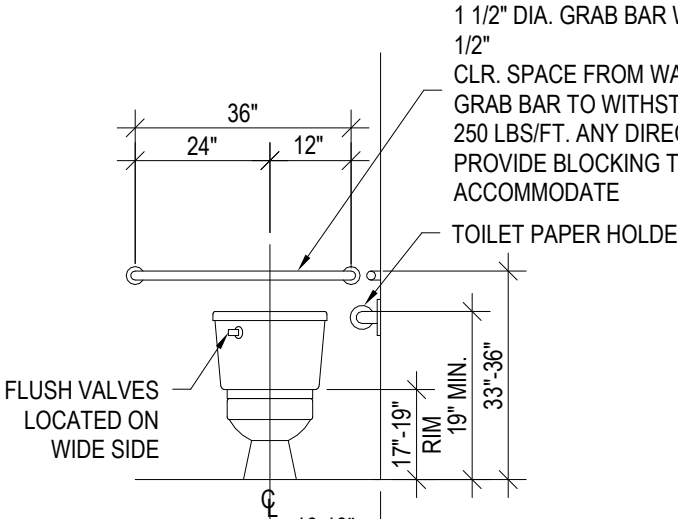
14 Accessible Toilet Stall

1/4"=1'-0"



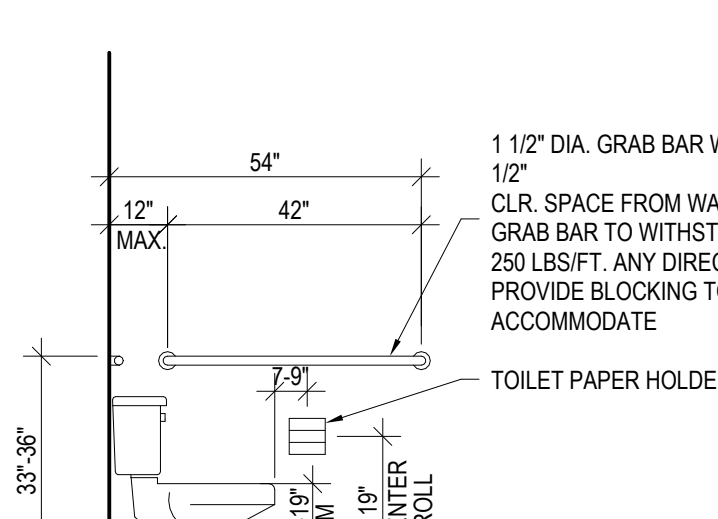
15 Accessible Ambulatory Stall

1/4"=1'-0"



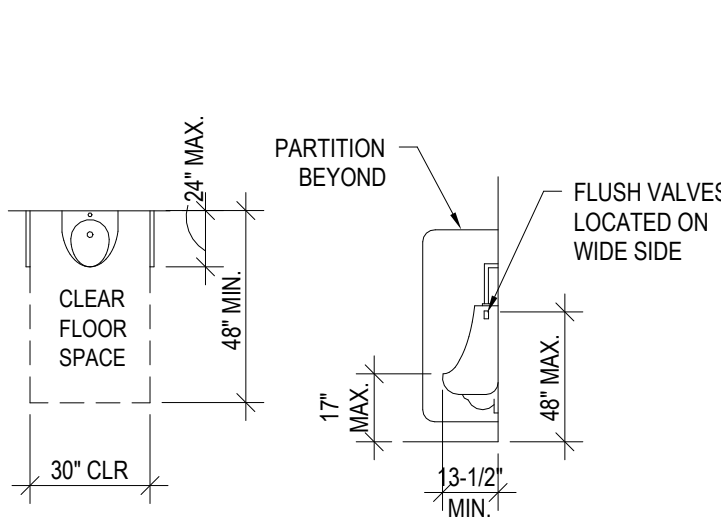
16 Accessible Toilet & Grab Bars

1/4"=1'-0"



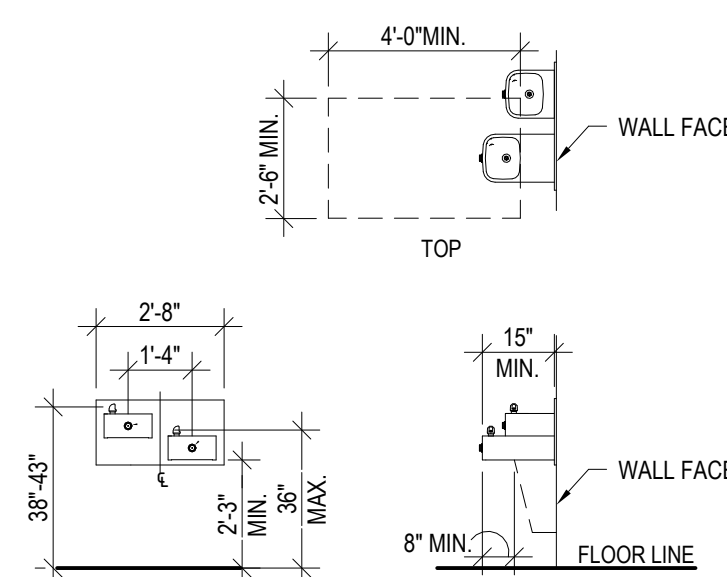
17 Accessible Toilet & Grab Bars

1/4"=1'-0"



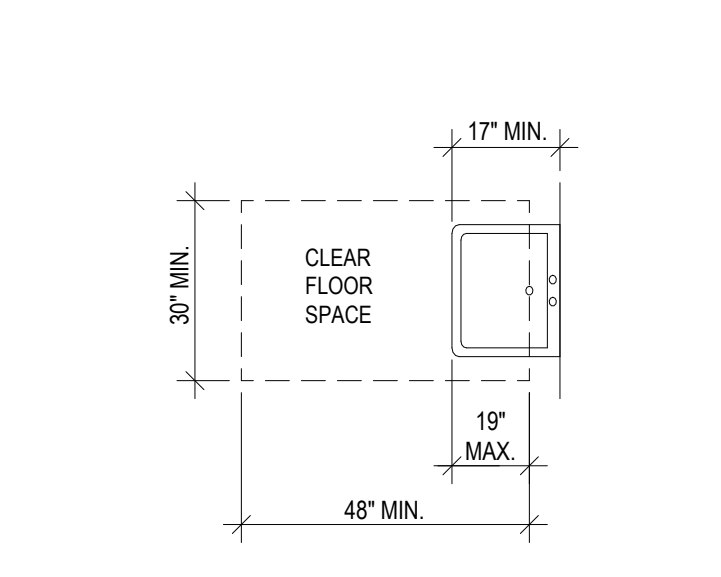
18 Accessible Urinal Dtls.

1/4"=1'-0"



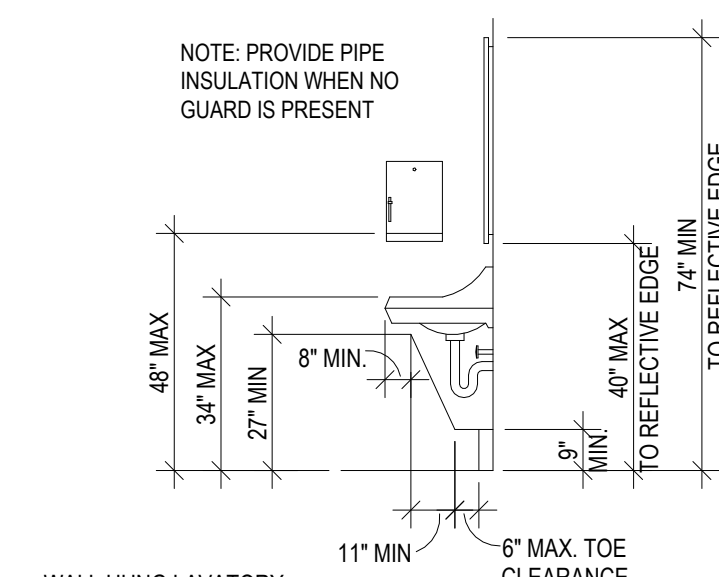
19 Hi Lo Fountain

1/4"=1'-0"



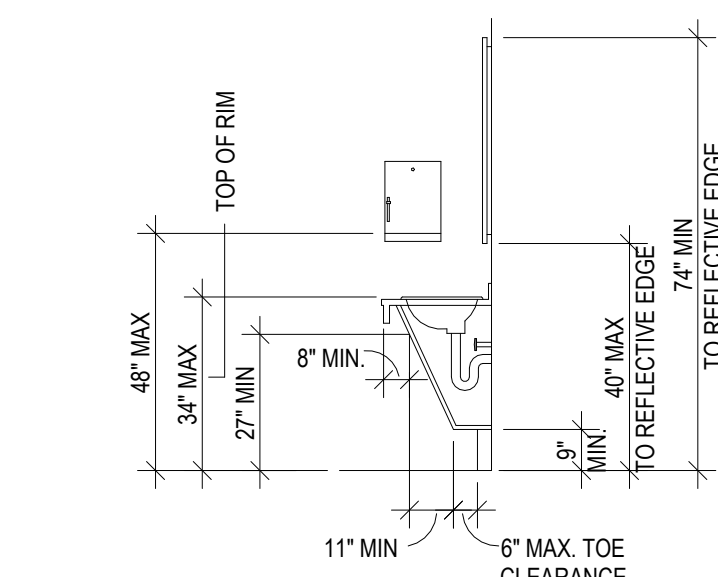
20 Lavatory Clear Floor Space

1/4"=1'-0"



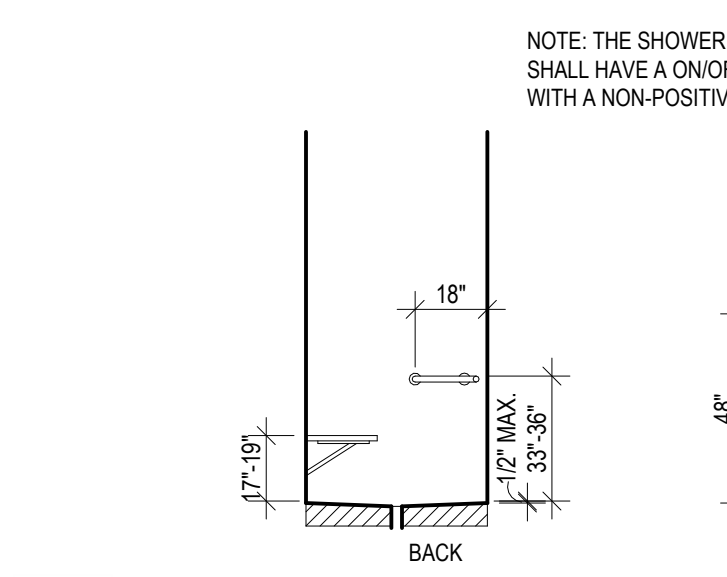
21 Lavatory Clearances

1/4"=1'-0"



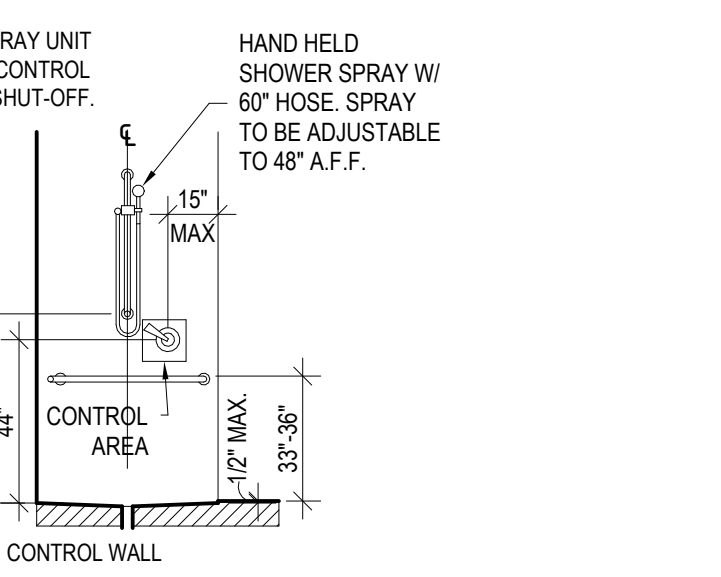
22 Accessible Shower

1/4"=1'-0"



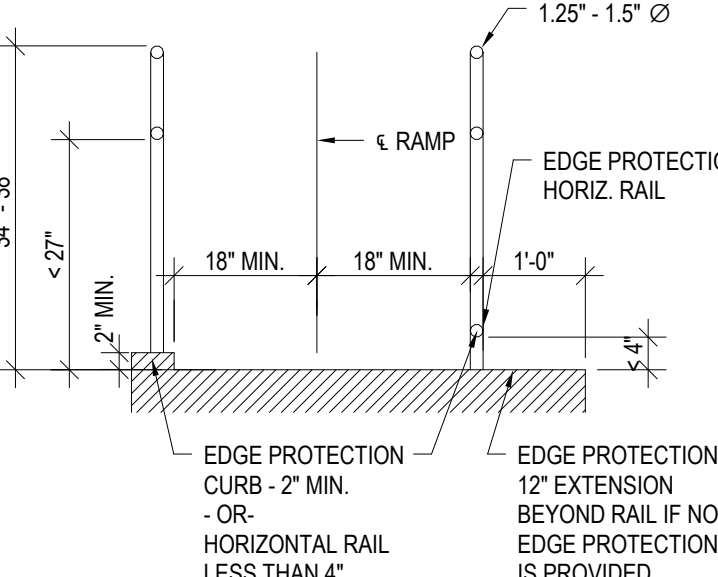
23 Accessible Shower

1/4"=1'-0"



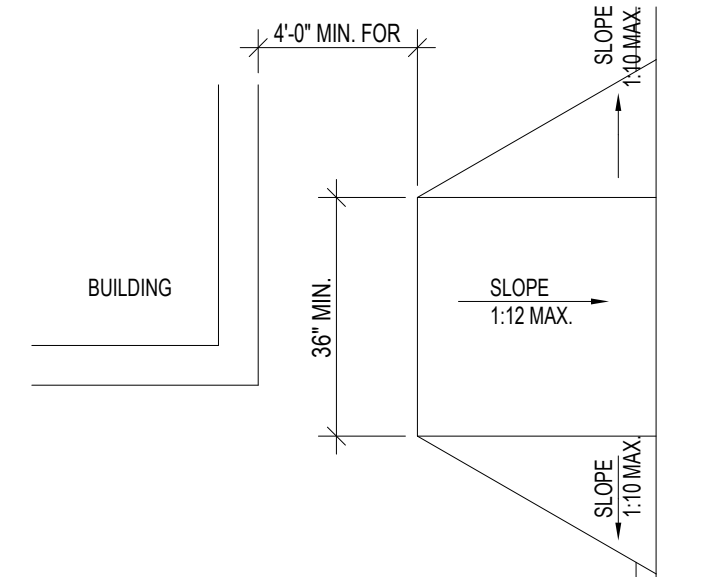
24 Accessible Ramp

1/4"=1'-0"



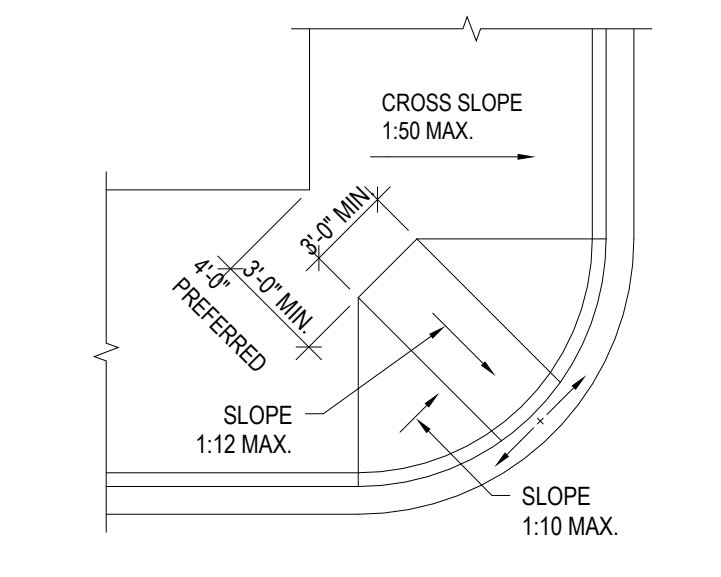
25 Accessible Ramp Section

1/4"=1'-0"



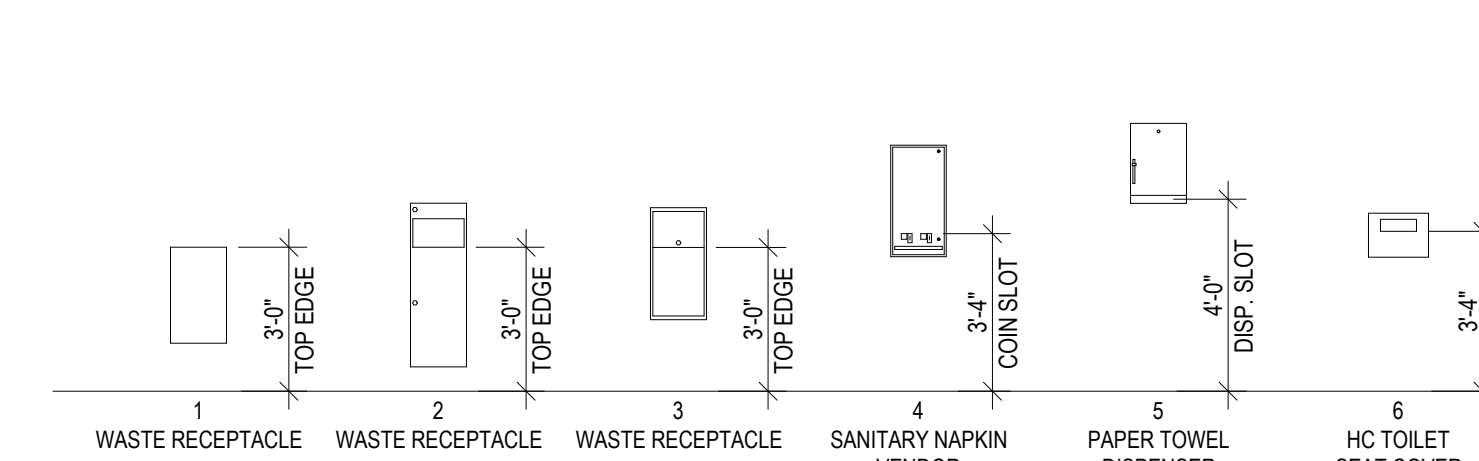
26 Accessible Curb Ramp

1/4"=1'-0"



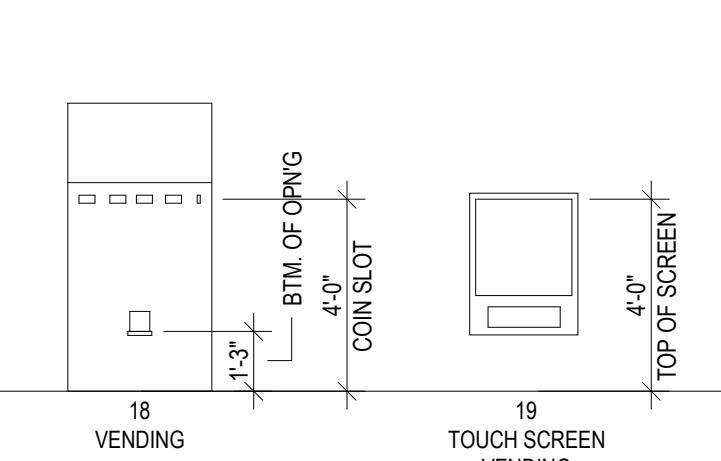
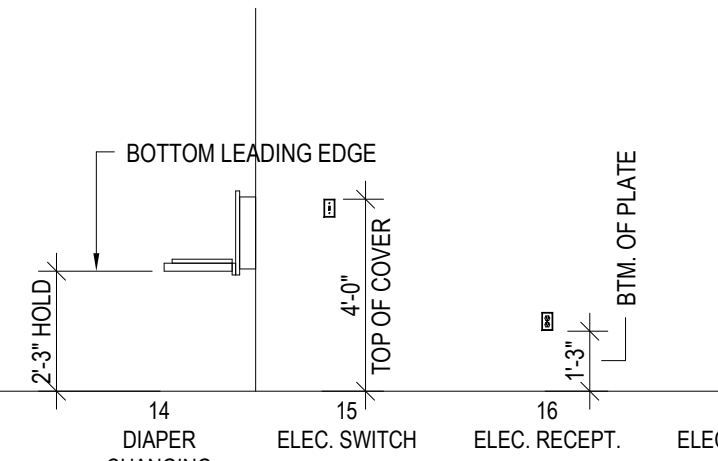
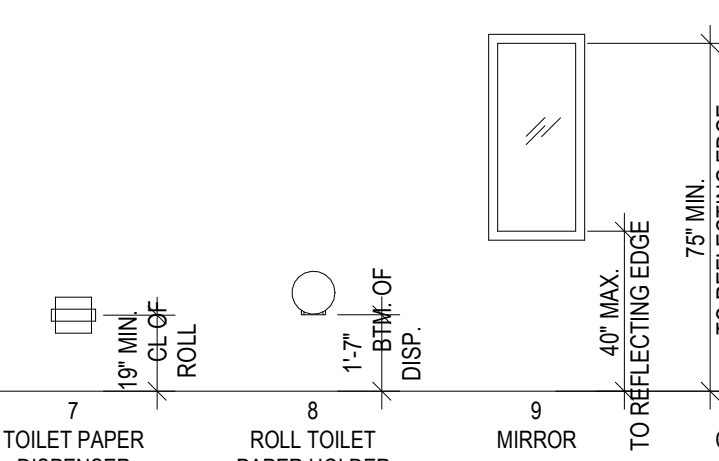
27 Accessible Corner Curb Ramp

1/4"=1'-0"



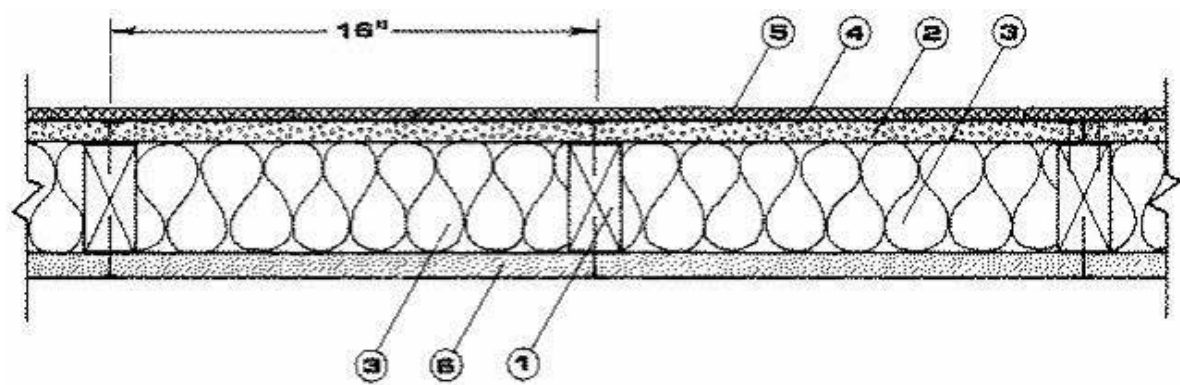
28 Accessible Reach Ranges

1/4"=1'-0"



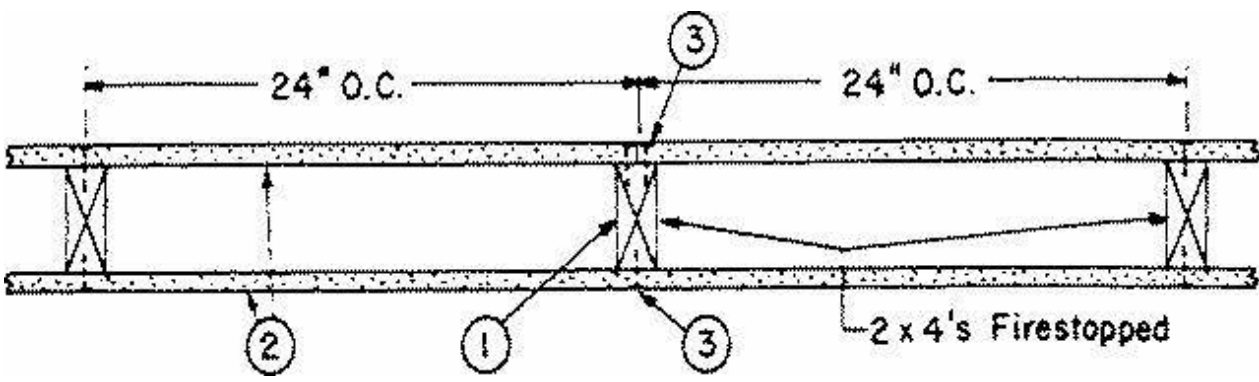
Accessibility Notes

1. ALL WORK SHALL BE IN COMPLIANCE WITH LATEST A.D.A. & LOCAL ACCESSIBILITY REGULATORY AGENCIES, AND SHALL FACILITATE HANDICAPPED ACCESSIBILITY BY ELIMINATING ARCHITECTURAL BARRIERS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING N-VIZION OF ANY DIMENSIONAL DISCREPANCIES OR ANY UNCLEAR ITEMS SO THAT N-VIZION MAY PROVIDE AN ACCEPTABLE SOLUTION OR ALTERNATIVE.
2. CIVIL ENGINEER IS RESPONSIBLE FOR ALL SITE RELATED ACCESSIBILITY DETAILS AND ISSUES.
3. MINIMUM WIDTH OF ALL ACCESSIBLE ROUTES INCLUDING BETWEEN TABLES AND FURNITURE SHALL BE 36" EXCEPT AT DOORS WHICH SHALL BE A MINIMUM OF 32" CLEAR AND SHALL HAVE A MINIMUM CLEAR HEIGHT OF 80".
4. MAX. THRESHOLD HEIGHT 1/2"; RAISED THRESHOLD AND FLOOR LEVEL CHANGES SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN DOORS.
5. PROTRUDING OBJECTS WITH LEADING EDGE 27" TO 80" A.F.F. SHALL NOT PROTRUDE MORE THAN 4" INTO WALKS AND CORRIDORS.
6. ALL ACCESSIBLE DOORS SHALL COMPLY WITH LOCAL ACCESSIBILITY REGULATORY AGENCY REQUIREMENTS INCLUDING BUT NOT LIMITED TO CLEARANCES, OPENING FORCE, HARDWARE REQUIREMENTS AND CLOSER TIMING.
7. MANEUVERING CLEARANCES AT ALL ACCESSIBLE DOORS SHALL COMPLY WITH APPLICABLE CODES.
8. DOUBLE DOORS SHALL HAVE AT LEAST ONE ACCESSIBLE DOOR LEAF IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS. THIS IS TO BE THE ACTIVE LEAF.
9. ALL HANDLES, PULLS, OPERATING MECHANISMS, LATCHES AND LOCKS SHALL COMPLY WITH ALL A.D.A. & LOCAL ACCESSIBILITY REGULATORY AGENCY APPLICABLE CODES.
10. ALL DOOR CLOSURES SHALL MEET A.D.A. & LOCAL ACCESSIBILITY REGULATORY AGENCY STANDARDS.
11. ALL SIGNAGE TO BE COMPLIANT WITH A.D.A. & LOCAL ACCESSIBILITY REGULATORY AGENCIES. PROVIDE HANDICAP GRAPHICS PER A.D.A. & LOCAL ACCESSIBILITY REGULATORY AGENCY REQUIREMENTS.
12. LAV. AND WATER CLOSETS TO BE LEVER TYPE CONTROL. CONTROL SHALL BE OPERABLE W/ ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. WATER CLOSET FLUSH CONTROL TO BE ON WIDE SIDE OF TOILET.
13. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
14. MIRRORS SHALL BE A MAXIMUM HEIGHT OF 40" TO BOTTOM OF MIRROR AND A MINIMUM OF 75" AT TOP EDGE.
15. GRAB BAR AND SEAT SHALL WITHSTAND AN IMPOSED LOAD OF NOT LESS THAN 250 LBS. APPLIED AT ANY POINT. PROVIDE SUFFICIENT BLOCKING AT EACH LOCATION TO WITHSTAND THESE LOADS.
16. PROVIDE 1 1/2" CLEARANCE BETWEEN GRAB BAR AND WALL.
17. HANDRAIL GRIPPING SURFACE SHALL BE 1-1/4" TO 1-1/2" OR PROVIDE EQUAL GRIPPING SURFACE.
18. IF CLOTHES HOOKS ARE PROVIDED ENSURE COMPLIANCE WITH A.D.A. & LOCAL ACCESSIBILITY REGULATORY AGENCY REQUIREMENTS.
19. PROVIDE AUDIOVISUAL ALARMS WHERE ALARMS ARE PROVIDED. ALARMS SHALL COMPLY WITH A.D.A. & LOCAL ACCESSIBILITY REGULATORY AGENCY REQUIREMENTS.
20. WHEN OCCUPANTS ARE PRIMARILY CHILDREN INSTALL FIXTURES, GRAB BARS AND CONTROLS AT HEIGHTS REQUIRED BY A.D.A. & LOCAL ACCESSIBILITY REGULATORY AGENCIES.



03 1 HR FIRE RATED EXTERIOR WALL --- NTS
U.L. NO. BXUV7

- WOOD STUDS — NOMINAL 2 IN. X 4 IN., SPACED 16 IN. OC.
- CEMENTITIOUS BACKER UNITS* — 7/16 IN., 1/2 IN., 5/8 IN., 3/4 IN., OR 1 IN. THICK, INSTALLED VERTICALLY OR HORIZONTALLY WITH VERTICAL JOINTS CENTERED OVER STUDS. FASTENED TO STUDS AND PLATES WITH CORROSION RESISTANT 1-1/4 IN. LONG, SHARP POINT CEMENT BOARD SCREWS SPACED A MAX. OF 8 IN. OC. STARTING WITH A 4 IN. STAGGER FROM HORIZONTAL JOINTS AND LAST SCREW 1-1/2 IN. FROM EDGE OF BOARD. JOINTS COVERED WITH GLASS FIBER MESH TAPE AND LATEX MODIFIED PORTLAND CEMENT MORTAR OR TYPE I ORGANIC ADHESIVE. FINISH RATING 14 MINUTES FOR CEMENT BOARD WITH 1/4 IN. THICK TILE SET IN LATEX MODIFIED PORTLAND CEMENT MORTAR OR TYPE I ORGANIC ADHESIVE.
- NATIONAL GYPSUM CO — TYPE DURABACKER, PERMABASE, DURABACKER PLUS, OR PERMABASE PLUS
- BATTS AND BLANKETS* — MIN 3-1/2 IN. THICK MINERAL WOOL BATTS, FRICTION FIT BETWEEN STUDS TO FILL INTERIOR STUD CAVITY.
- THERMAFIBEROWENS CORNING — TYPE SAFB
- BOND COAT FOR SETTING TILE — LATEX MODIFIED PORTLAND CEMENT MORTAR OR TYPE I ORGANIC ADHESIVE APPLIED WITH A NOTCHED TROWEL.
- CERAMIC TILE — 1/4 IN. THICK, JOINTS FILLED WITH GROUT.
- GYPSUM BOARD* — 5/8 IN. THICK, WITH SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY WITH VERTICAL JOINTS CENTERED OVER STUDS. GYPSUM PANELS NAILED 7 IN. OC WITH 6D CEMENT COATED NAILS 1-7/8 IN. LONG, 0.0915 IN. SHANK DIAM AND 1/4 IN. DIAM HEADS. WHEN USED IN WIDTHS OTHER THAN 48 IN., GYPSUM BOARD TO BE INSTALLED HORIZONTALLY.
- NATIONAL GYPSUM CO — TYPES FSK, FSWR-C, FSW (FINISH RATING 20 MIN.), FSW-3, FSW-6, FSW-8, FSL.
- 6A. GYPSUM BOARD* — (AS AN ALTERNATE TO ITEMS 6, 5/8 IN. THICK, 4 FT. WIDE, PAPER SURFACED, APPLIED VERTICALLY AND SECURED AS DESCRIBED IN ITEM 6.
- NATIONAL GYPSUM CO — TYPE SBWB
- JOINTS — (NOT SHOWN) — WHEN TAPERED EDGE GYPSUM BOARD IS USED, JOINTS COVERED WITH JOINT COMPOUND AND PAPER TAPE. AS AN ALTERNATE, GYPSUM VENEER PLASTER MAY BE APPLIED TO THE ENTIRE SURFACE OF CLASSIFIED VENEER BASEBOARD WITH JOINTS REINFORCED. WHEN SQUARE-EDGE GYPSUM BOARD IS USED, TREATMENT OF JOINTS IS OPTIONAL.
- VAPOR RETARDER, WATER BARRIER OR WEATHER RESISTIVE BARRIER — (OPTIONAL, NOT SHOWN) — AS REQUIRED.



02 1 HR FIRE RATED INTERIOR WALL ----NTS
U.L. NO. U309

- WOOD STUDS — NOM 2 BY 4 IN., SPACED 24 IN. OC EFFECTIVELY FIRESTOPPED.
- GYPSUM BOARD* — 5/8 IN. THICK, 4 FT WIDE, APPLIED EITHER HORIZONTALLY OR VERTICALLY, NAILED TO STUDS AND BEARING PLATES WITH 6D CEMENT COATED NAILS 3 MIN., 1-7/8 IN. LONG, 0.0915 IN. SHANK DIAM AND 1/4 IN. DIAM HEADS SPACED 7 IN. OC. FINISH RATING 27 MIN. WHEN USED IN WIDTHS OTHER THAN 48 IN., GYPSUM BOARD TO BE INSTALLED HORIZONTALLY.
- JOINTS AND FASTENER HEADS — WALLBOARD JOINTS COVERED WITH PAPER TAPE AND JOINT COMPOUND. FASTENER HEADS COVERED WITH JOINT COMPOUND. GYPSUM PLASTER NOT MORE THAN 1/8 IN. THICK MAY BE APPLIED OVER THE WALLBOARD IN ADDITION TO THE SPECIFIED JOINT TREATMENT.
- BATTS AND BLANKETS* — (NOT SHOWN) — OPTIONAL GLASS FIBER INSULATION.
- NON-BEARING WALL PARTITION INTERSECTION — (OPTIONAL) — TWO NOMINAL 2 BY 4 IN. STUD OR NOMINAL 2 BY 6 IN. STUD NAILED TOGETHER WITH TWO 3/4 IN. LONG 10D NAILS SPACED A MAX. 16 IN. OC. VERTICALLY AND FASTENED TO ONE SIDE OF THE MINIMUM 2 BY 4 IN. STUD WITH 3 IN. LONG 10D NAILS SPACED A MAX. 16 IN. OC. VERTICALLY. INTERSECTION BETWEEN PARTITION WOOD STUDS TO BE FLUSH WITH THE 2 BY 4 IN. STUDS. THE WALL PARTITION WOOD STUDS ARE TO BE FRAMED BY WITH A SECOND 2 BY 4 IN. WOOD STUD FASTENED WITH 3 IN. LONG 10D NAILS SPACED A MAX. 16 IN. OC. VERTICALLY. MAXIMUM ONE NON-BEARING WALL PARTITION INTERSECTION PER STUD CAVITY. NON-BEARING WALL PARTITION STUD DEPTH SHALL BE AT A MINIMUM EQUAL TO THE DEPTH OF THE BEARING WALL.

LIFE SAFETY GENERAL NOTES

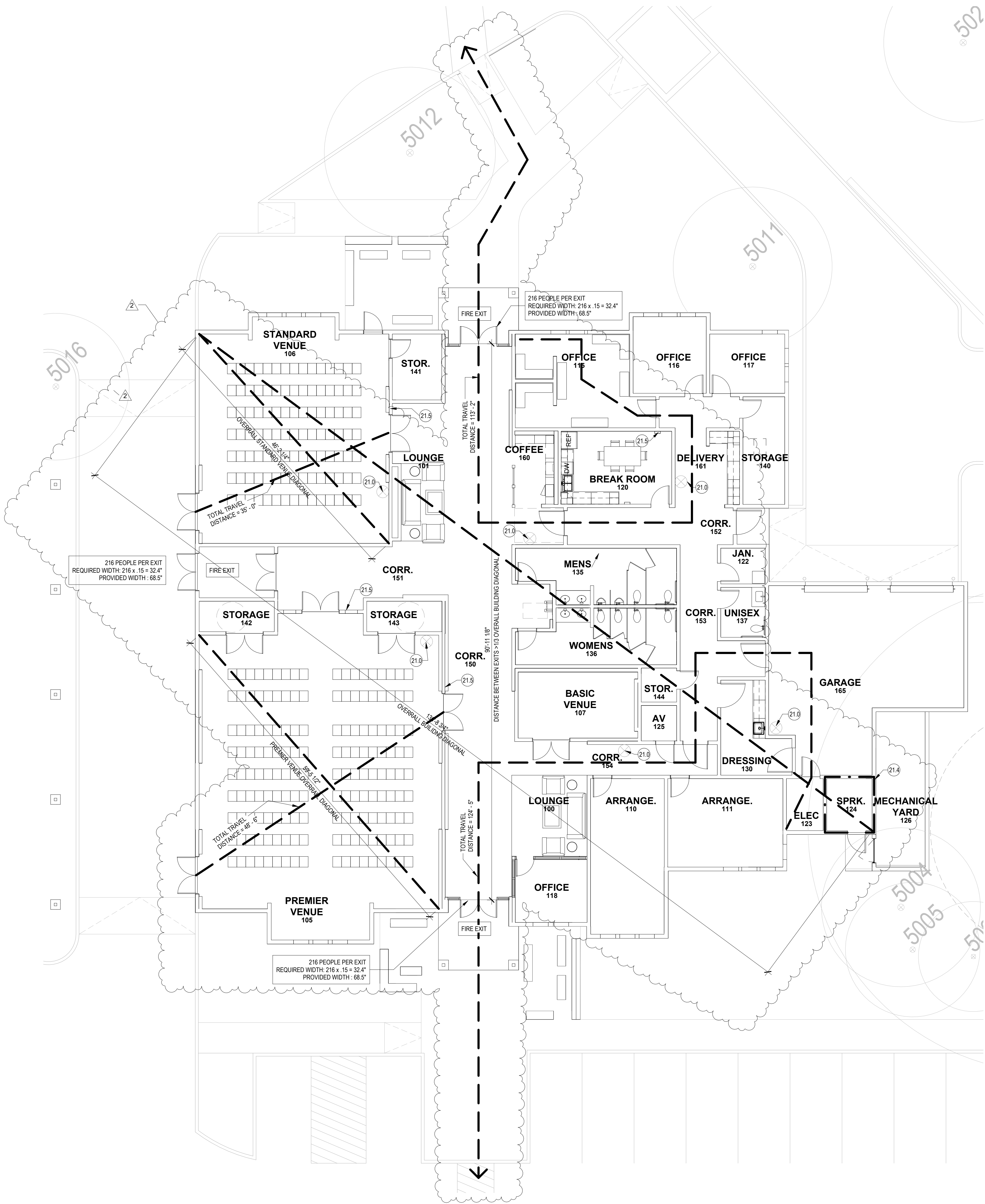
- AT ALL FIRE RATED PARTITIONS AND SMOKE PARTITIONS, SEAL ALL PENETRATIONS AND SILL-WALL AND HEAD-WALL WITH FIRESTOPPING.
- ALL FIRE RATED PARTITIONS SHALL BE CONSTRUCTED IN STRICT CONFORMANCE TO U.L. TESTED ASSEMBLIES AS NOTED. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE U.L. FIRE RESISTANCE DIRECTORY AND HAVING IT AVAILABLE AT THE SITE. THE MOST CURRENT U.L. FIRE RESISTANCE DIRECTORY TAKES PRECEDENCE OVER DETAILS PROVIDED IN THIS SET. WHERE DISCREPANCIES EXIST THE MOST CURRENT U.L. FIRE RESISTANCE DIRECTORY SHALL BE USED.
- WHERE GYPSUM WALLBOARD IS NOT APPLIED TO BOTH SIDES OF PARTITION FRAMING, INSTALL HORIZONTAL BRIDGING.
- BOTTOM OF STRUCTURE REFERS TO BOTTOM OF: METAL FLOOR DECK, METAL ROOF DECK, CONCRETE DECK, CONCRETE ROOF, OR WHICHEVER IS APPLICABLE.
- BOTTOM OF STRUCTURAL FRAMING REFERS TO BOTTOM OF: STEEL BEAM, STEEL GIRDER, STEEL BAR JOIST, CONCRETE BEAM, CONCRETE TEE, WHICHEVER IS APPLICABLE.
- ALL FINISH MATERIAL TO COMPLY W/ LOCALLY ADOPTED CODE. NOTE - ALL METAL STUD FRAMING TO BE SHEATHED W/ 5/8" SHEETROCK U.N.O. ALL SHEATHING TO BE APPLIED DIRECTLY TO STUDS MUST BE A COMPLYING NON-COMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIAL AS ACCEPTED BY THE CODE.
- WHERE REQUIRED, PROVIDE A FIRE ALARM SYSTEM IN ACCORDANCE W/ THE LOCALLY ADOPTED CODE. - ALARM SYSTEM DRAWINGS TO BE APPROVED TO FIRE MARSHALL & N-VIZION PRIOR TO INSTALLATION. ALL NEW ALARM DEVICES INSTALLED IN PROJECT TO COMPLY WITH TAS INCLUDING BUT NOT LIMITED TO - ALL VISUAL ALARM DEVICES TO BE MOUNTED 80" ABOVE HIGHEST FINISH FLOOR HEIGHT OR 6" BELOW CEILING WHICHEVER IS LOWER.
- ALL ELEVATED WOOD FLOORS ON SLEEPERS MUST COMPLY W/ THE LOCALLY ADOPTED CODE. THE FURRING SPACE SHALL BE FILLED WITH NON-COMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIAL OR SHALL BE FIREBLOCKED SO THAT THERE WILL BE NO OPEN SPACE OVER 100SQ FT IN AREA UNDER THE FLOORING. THE FURRING SPACE CREATED BY SLEEPERS SHALL BE FILLED SOLIDLY UNDER ALL PERMANENT PARTITIONS TO PREVENT SPREAD OF FIRE UNDER THE FLOORING.
- WHERE REQUIRED, PROVIDE A SPRINKLER SYSTEM IN ACCORDANCE W/ THE LOCALLY ADOPTED CODE. - ALARM SYSTEM DRAWINGS TO BE APPROVED TO FIRE MARSHALL & N-VIZION PRIOR TO INSTALLATION.

FIRE PROTECTION LEGEND

FIRE EXIT	REQUIRED EXIT
	FIRE EXTINGUISHER
	WOOD STUD WALL

Key Notes

- CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
- 5' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 4' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- EDGE OF FOUNDATION. PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLATWORK.
- CONCRETE FLATWORK W/ EXPOSED AGGREGATE FINISH. REFERENCE CIVIL. PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
- CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL.
- CONCRETE FLATWORK W/ ROOM FINISH. REF. CIVIL.
- PROVIDE CONCRETE EXPANSION JOINT.
- LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN.
- DOWNSPOUT TO DRAIN AWAY FROM FOUNDATION ONTO LAWN.
- ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A010.
- FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13A010.
- MIRROR AT LAV. REF. SHEET A010.
- SCHLUTER EDGE TRIM.
- SOAP DISPENSER. REF. MATERIALS SCHED.
- COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
- FLOOR SPACE FOR TABLE BY OWNER.
- BOLLARD REF. DETAIL D1A033.
- KNOX BOX REF. MATERIAL SCHEDULE.
- AED - AUTOMATED EXTERNAL DEFIBRILLATOR REFERENCE MATERIALS SCHEDULE.
- BABY CHANGING STATION. REF. MATERIALS SCHEDULE. 8C31.
- WIRELESS INTERNET AND SERVER.
- SLOT DIFFUSER.
- DISHWASHER REF. MATERIAL SCHEDULE.
- REFRIGERATOR REF. MATERIAL SCHEDULE.
- INSTALL SOUND ATTENUATION INSULATION REF. MATERIAL SCHED - INS.
- FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
- 1 HOUR FIRE BARRIER. REFERENCE U.L. DETAILS A020. ALL PENETRATIONS TO BE 1-HR FIRE RATED.
- PROVIDE SIGNAGE AT EACH ENTRY STATING THE MAXIMUM OCCUPANT LOAD. MAX. OCC. LOAD FOR PREMIER VENUE IS 312. MAX. OCC. LOAD FOR STANDARD VENUE IS 162.
- ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
- ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS. REF. ACCESS. DETAILS.
- ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- MOP SINK REF. PLUMBING DRAWINGS.
- DOUBLE COMPARTMENT STAINLESS STEEL SINK REF. PLUMBING.



01 Life Safety Plan

1/8" = 1'-0"



Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78641

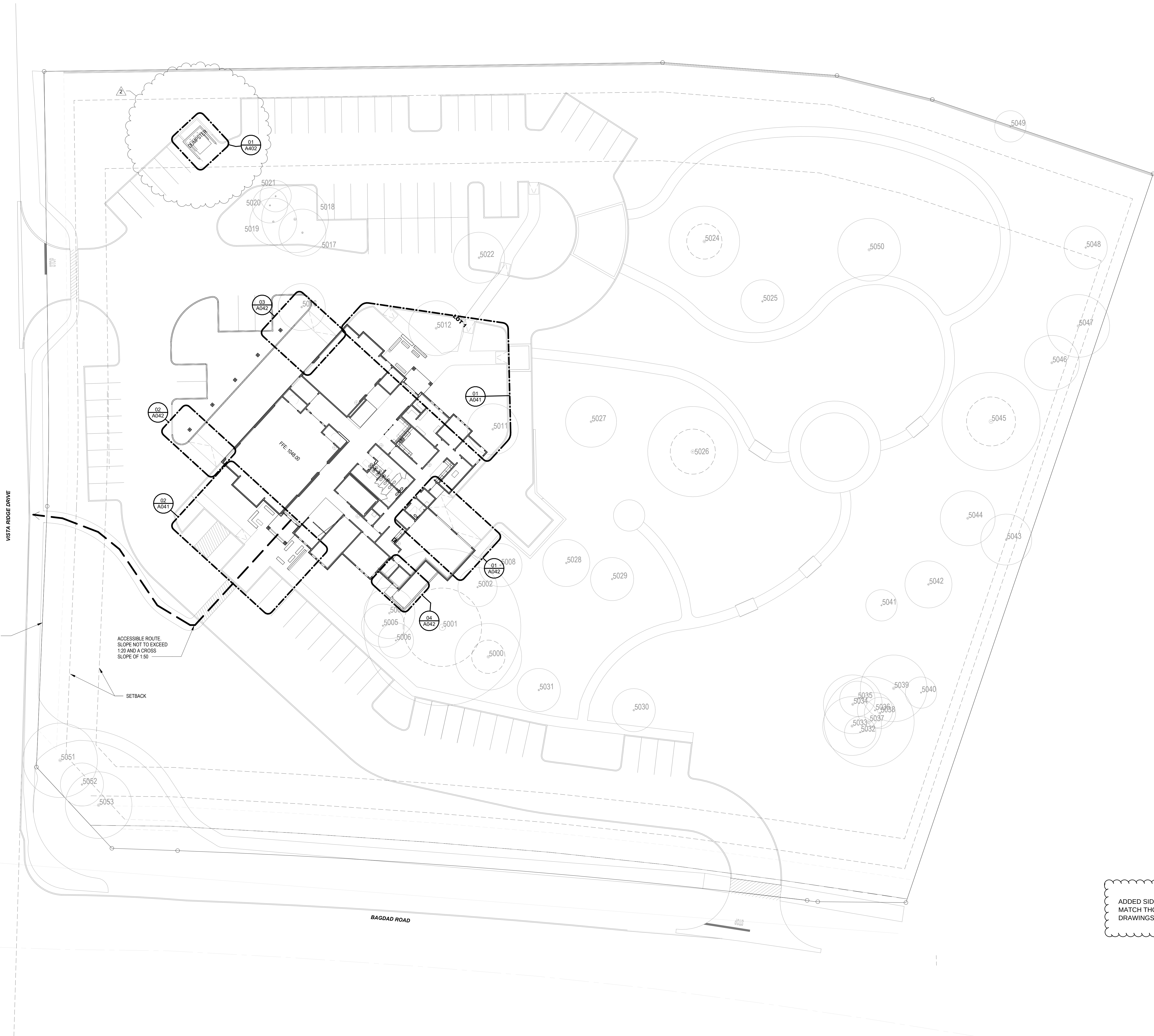
N-VIZION
FORMS • ENVIRONMENTS • IMAGES

Life Safety Plan

Project Number: 220502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration No.: TX PE Firm F-1223, TX-25489, LA, 6413 MI;
1301069561, NV-6252, NC: 14885, OH:ARC-1917885

Date:	Description:	By:	Check:
06/07/24	CS: Set	WCF	
06/09/25	Revised Comments	WCF	

A020



NOTE:
1. ALL ACCESSIBLE ROUTES TO HAVE MAX CROSS SLOPE OF 1:48. ALL RAMPS ON ACCESSIBLE ROUTE NOT TO EXCEED 1:20 SLOPE IN THE DIRECTION OF TRAVEL.
2. IF ADA SIGNS ARE PROVIDED, ENSURE PERMANENT SIGNAGE MEETS ALL REQUIREMENTS OF TAS 218.
3. REF. CIVIL DRAWINGS FOR DIMENSIONAL CONTROL OF BUILDING LOCATIONS AND OTHER SITE SPECIFIC INFORMATION

ADDED SIDEWALKS AT STREET. SHOWN TO MATCH THOSE SHOWN ON THE CIVIL DRAWINGS.

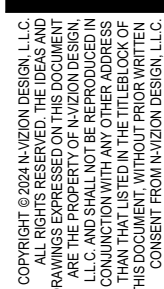


Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78641

N-VIZION
FORMS • ENVIRONMENTS • IMAGES

Architectural Site Plan
Project Number: 230502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration No.: TX PE Firm F-1223, TX 25488, LA 6413 MI
1301069561, NV 6252, NC: 14883, OH: ARC-1917785

Date	Description	By	Check
06/07/24	CD Set	WCF	
04/09/25	Rev2 City Comments	WCF	



N-VIZION

Architectural Enlarged Plans

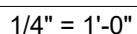
Date:	Description:
06.07.24	CD Set
10.25.24	Rev1 Permit Set

A041



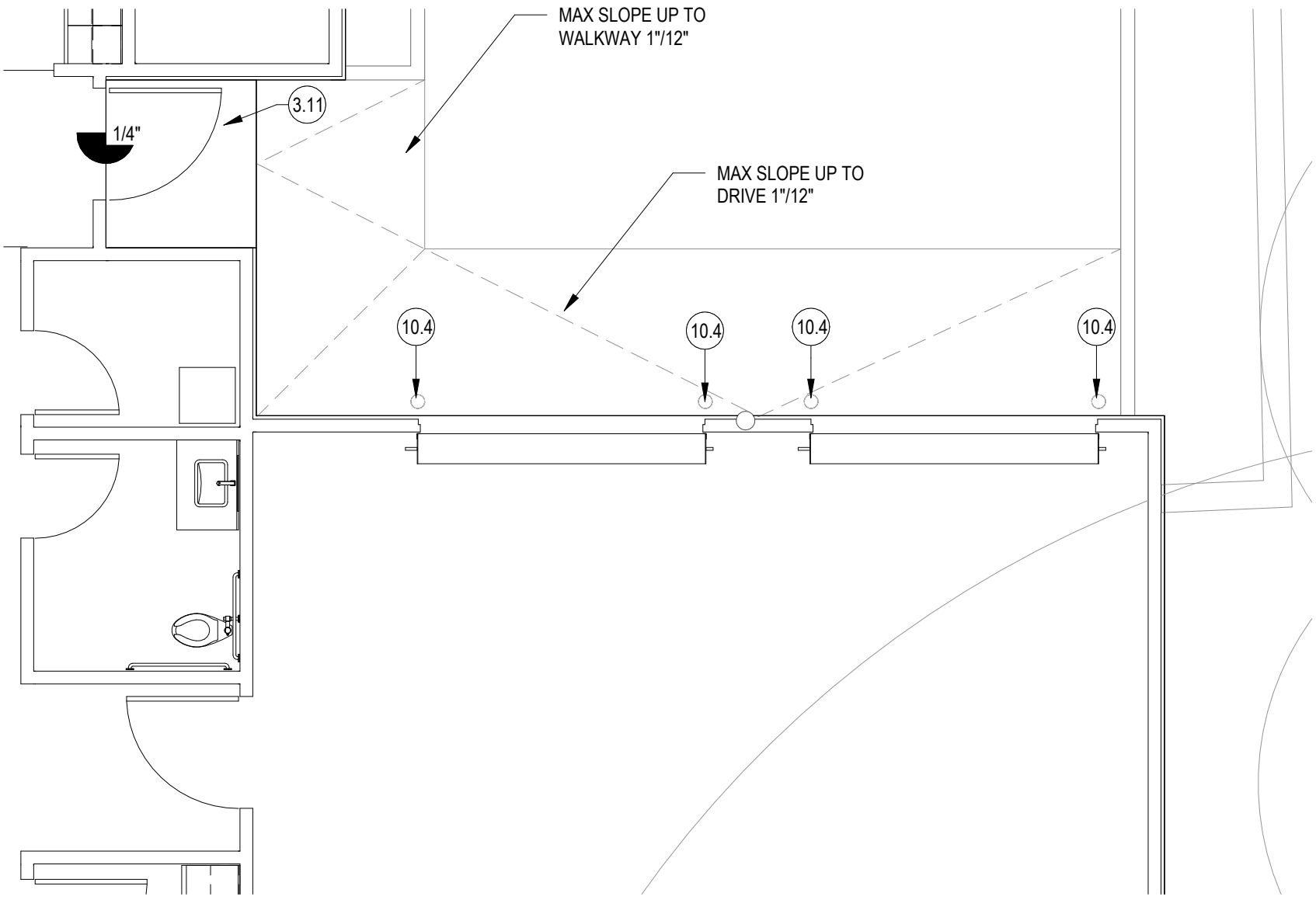
- 3.54 KNU BENCH: REF MATERIALS SCHEDULE AND DETAILS.
- 3.59 TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.64 TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.68 EDGE OF FOUNDATION: PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLOORWORK.
- 3.9 CONCRETE FLOORWORK W/ EXPOSED AGGREGATE FINISH REFERENCE CIVIL, PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
- 3.10 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH REF. STRUCTURAL.
- 3.11 CONCRETE FLOORWORK W/ BROOM FINISH REF. CIVIL.
- 3.12 PROVIDE CONCRETE EXPANSION JOINT.
- 3.68 LOAD BEARING WALL: FOR CENTER CORRIDOR, REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN.
- 7.0 DOWNPOUT TO DRAIN AWAY FROM FOUNDATION ONTOWN LAWN.
- 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A1010.
- 9.0 PERMANENT THRESHOLD TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13A310.
- 9.1 MIRROR AT 1/4" REF. SHEET A101.
- 9.4 SOLAR EXPOSURE DEF. MATERIALS.
- 9.4 SPUT DISPENSER. REF. TRIMMALS. SCHED.
- 10.1 COAT HOOK @ 48" AFF. REF. PROVIDE BLOCKING. REF. MATERIAL SCHED.
- 10.2 FLOOR SPACE FOR TABLE BY OWNER.
- 10.4 BOLLARD REF. DETAIL 01A303
- 10.10 KNOX BOX REF. MATERIALS SCHEDULE
- 10.10 BAY CHANGING STATION. REF. MATERIALS SCHEDULE.-BCS1
- 10.11 WIRELESS INTERNET AND SERVER
- 10.12 SLOTT DIFFUSER
- 11.6 DISHWASHER REF. MATERIALS SCHEDULE
- 11.8 REFRIGERATOR. REF. MATERIALS SCHEDULE
- 11.8 INSTALL SOUND ATTENUATION INSULATION REF. MATERIAL SCHED INS3
- 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEET MATERIALS SCHEDULE
- 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WALL, CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.1 ACCESSIBLE WALL. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
- 22.2 ACCESSIBLE URINAL PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TSS REQUIREMENT DETAIL
- 22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WALL, CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.5 MOP SINK REF. PLUMBING DRAWINGS.
- 22.10 DOUBLE COMPARTMENT STAINLESS STEEL SINK REF. PLUMBING

1/4" = 1'-0"



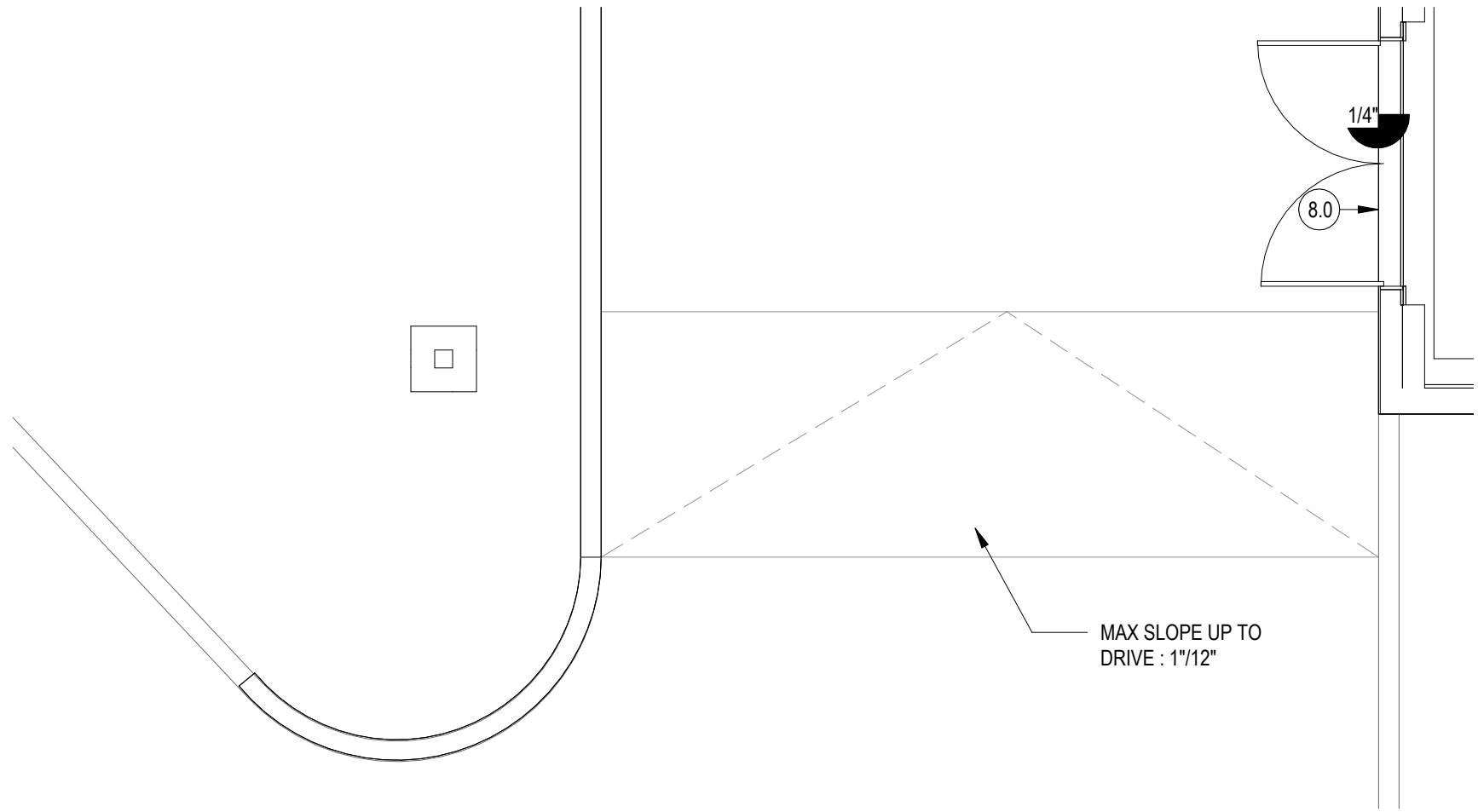
Key Notes

- 3.4 CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
3.5 5' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE
3.6 4' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE
3.8 EDGE OF FOUNDATION. PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLATWORK.
3.9 CONCRETE FLATWORK W/ EXPOSED AGGREGATE FINISH. REFERENCE CIVIL. PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS
3.10 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL
3.11 CONCRETE FLATWORK W/ BROOM FINISH. REF. CIVIL
3.12 PROVIDE CONCRETE EXPANSION JOINT
6.6 LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN
7.0 DOWNSPOUT TO DRAIN AWAY FROM FOUNDATION ONTO LAWN.
8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A010.
9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13/A010.
9.1 MIRROR AT LAV. REF. SHEET A010.
9.4 SCHLUTER EDGE TRIM.
10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
10.2 FLOOR SPACE FOR TABLE BY OWNER.
10.4 BOLLARD REF. DETAIL 01/A503
10.5 KNOX BOX REF. MATERIAL SCHEDULE
10.9 AED - AUTOMATED EXTERNAL DEFIBRILLATOR REFERENCE MATERIALS SCHEDULE
10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE - BCS1
10.11 WIRELESS INTERNET AND SERVER
11.0 SLOT DIFFUSER
11.6 DISHWASHER. REF. MATERIAL SCHEDULE
11.7 REFRIGERATOR. REF. MATERIAL SCHEDULE
13.0 INSTALL SOUND ATTENUATION INSULATION. REF. MATERIAL SCHED - INS3
21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE
21.4 1 HOUR FIRE BARRIER - REFERENCE U.L. DETAILS A020. ALL PENETRATIONS TO BE 1-HR FIRE RATED.
21.5 PROVIDE SIGNAGE AT EACH ENTRY STATING THE MAXIMUM OCCUPANT LOAD. MAX. OCC. LOAD FOR PREMIER VENUE IS 312. MAX. OCC. LOAD FOR STANDARD VENUE IS 182.
22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
22.1 ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
22.2 ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS. REF. ACCESS. DETAILS.
22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
22.5 MOP SINK. REF. PLUMBING DRAWINGS.
22.10 DOUBLE COMPARTMENT STAINLESS STEEL SINK. REF. PLUMBING.



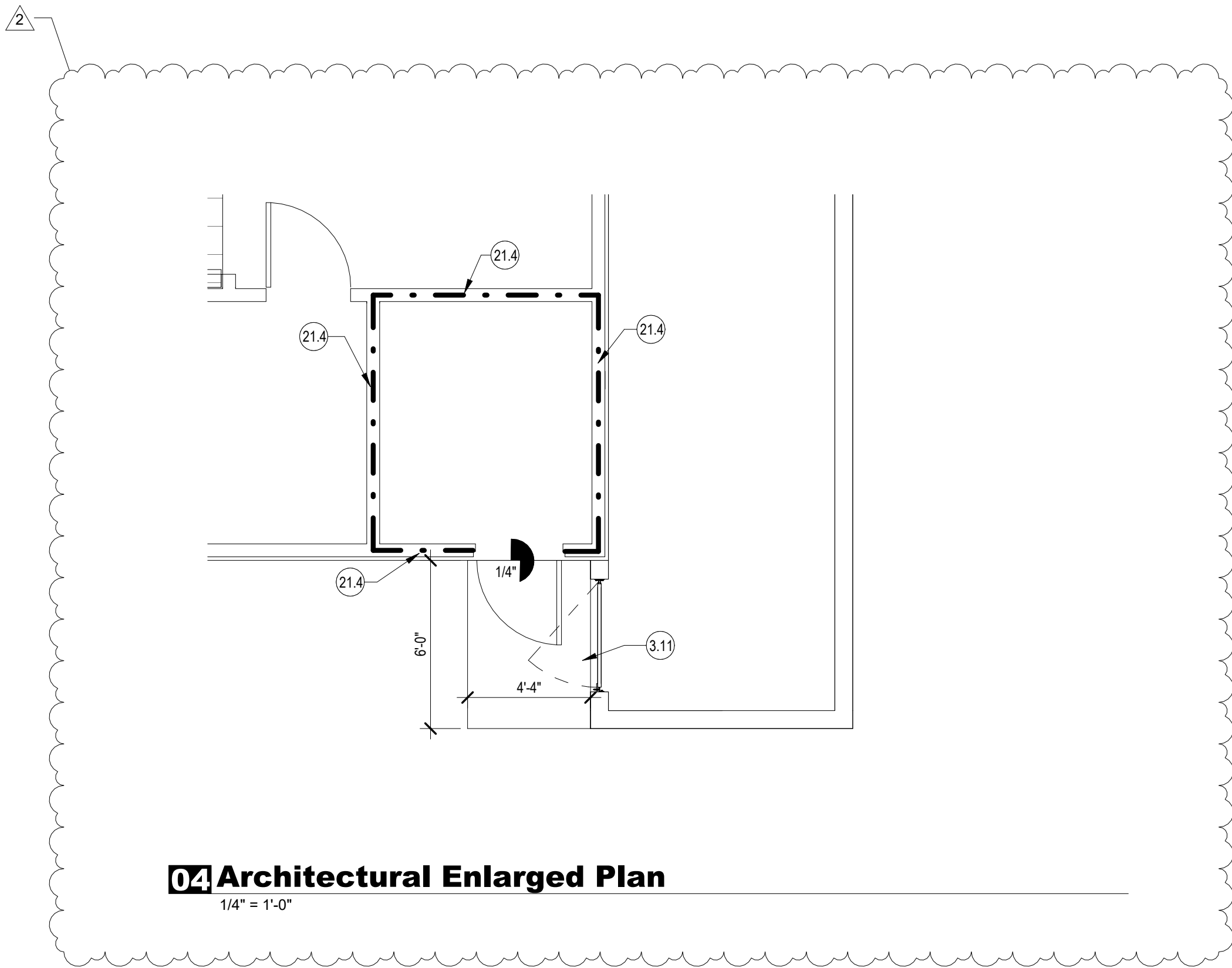
01 Architectural Enlarged Plan

3/16" = 1'-0"



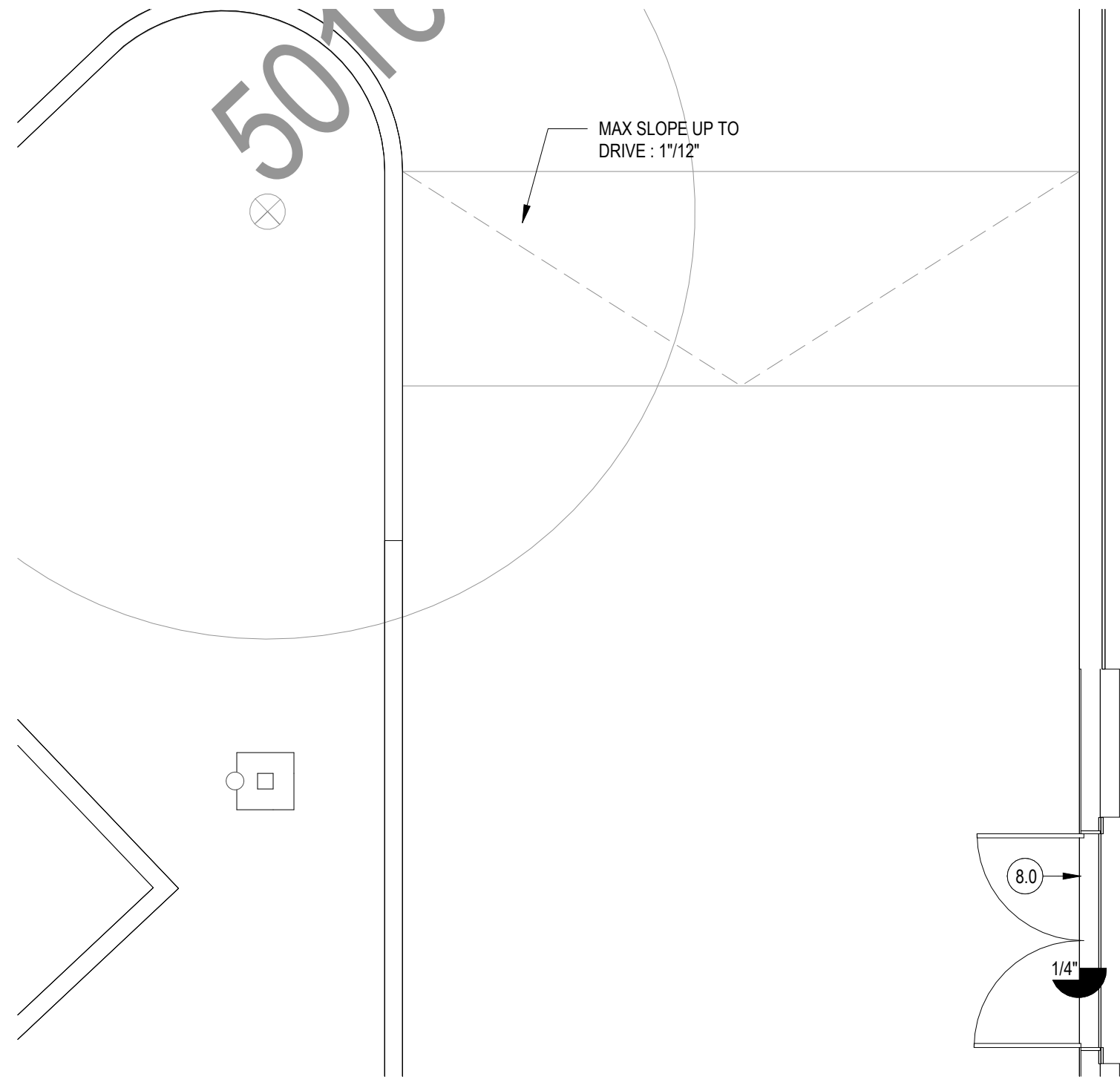
02 Architectural Enlarged Plan

1/4" = 1'-0"



04 Architectural Enlarged Plan

1/4" = 1'-0"



03 Architectural Enlarged Plan

1/4" = 1'-0"



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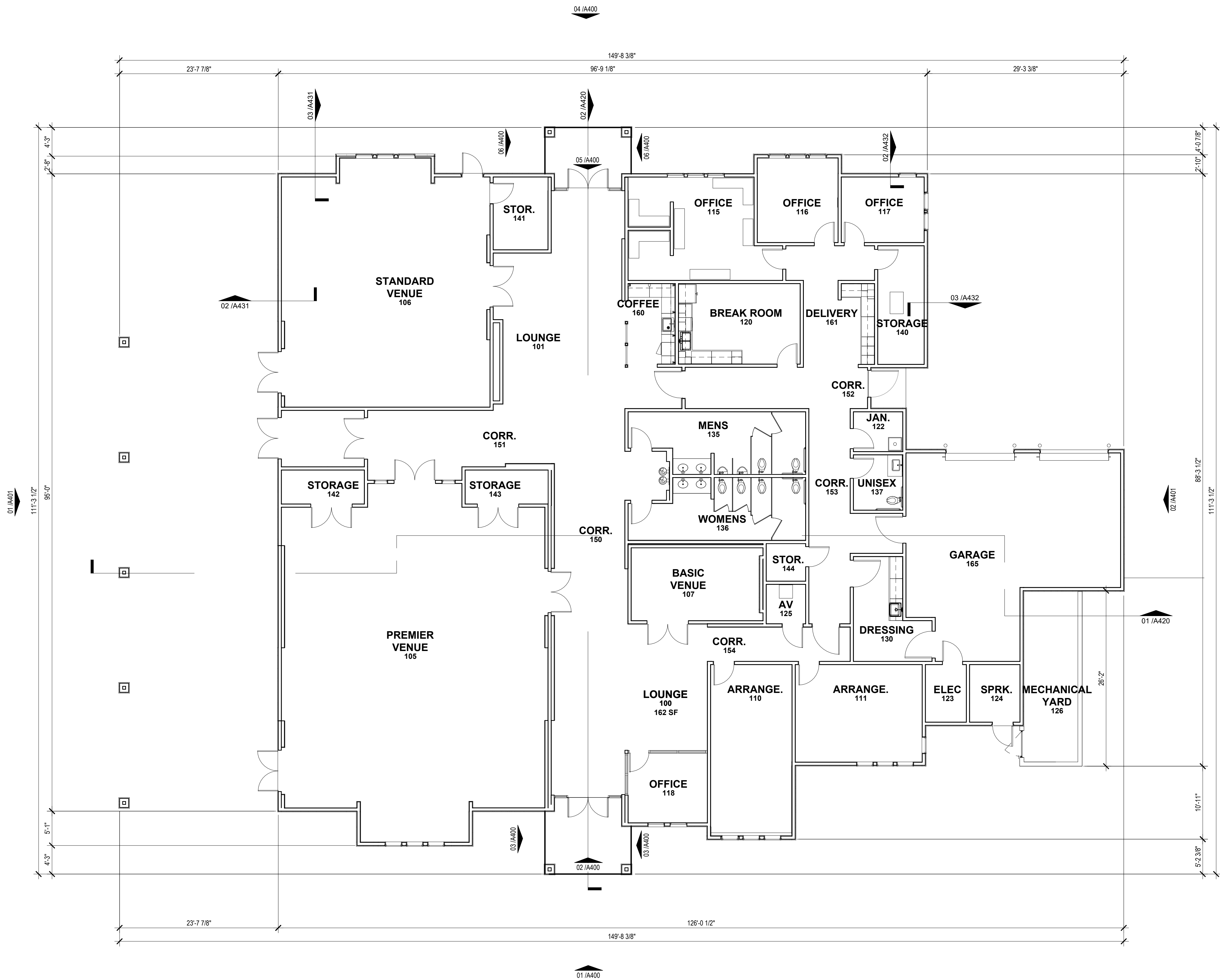
Weed Corley Fish
301 S. Flagstad Rd.
Leander, TX 78641

N-VIZION
FORMS • ENVIRONMENTS • IMAGES

Architectural Enlarged Plans
Project Number: 220502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration Nos.: TX PE Firm F-12223, TX-25489, LA 6413 MI;
1301069561, NV 6252, NC: 14883, OH: ARC-1917885

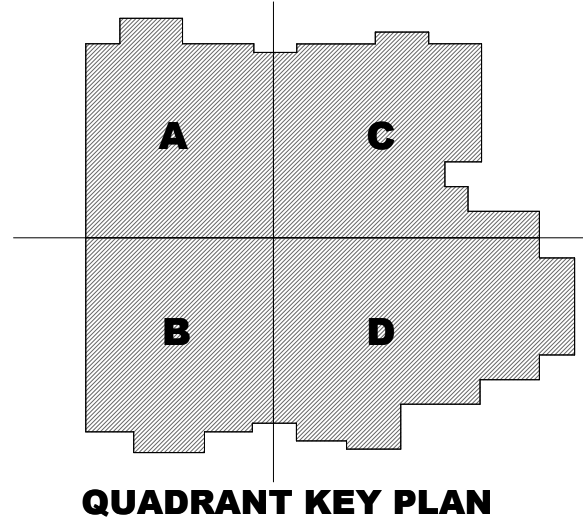
Date:	Description:
06/07/24	CD Set
06/09/25	Rev2 City Comments

A042



01 Overall Floor Plan
1/8" = 1'-0"

BUILDING AREAS	
CONDITIONED	9,151 SQ. FT.
UNCONDITIONED INTERIOR SPACE	872 SQ. FT.
COVERED EXTERIOR SPACE	1,848 SQ. FT.
TOTAL	11,971 SQ. FT.



QUADRANT KEY PLAN



Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78841

N-VIZION
FORMS • ENVIRONMENTS • IMAGES

Overall Floor Plan
Project Number: 220502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Leander, TX 78841
Registration No.: TX PE Firm F-1223, TX 25489, LA 6413 MI:
1301069561, NV 6252, NC: 14883, OH: ARC-1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev 1 / Permit Set

A100



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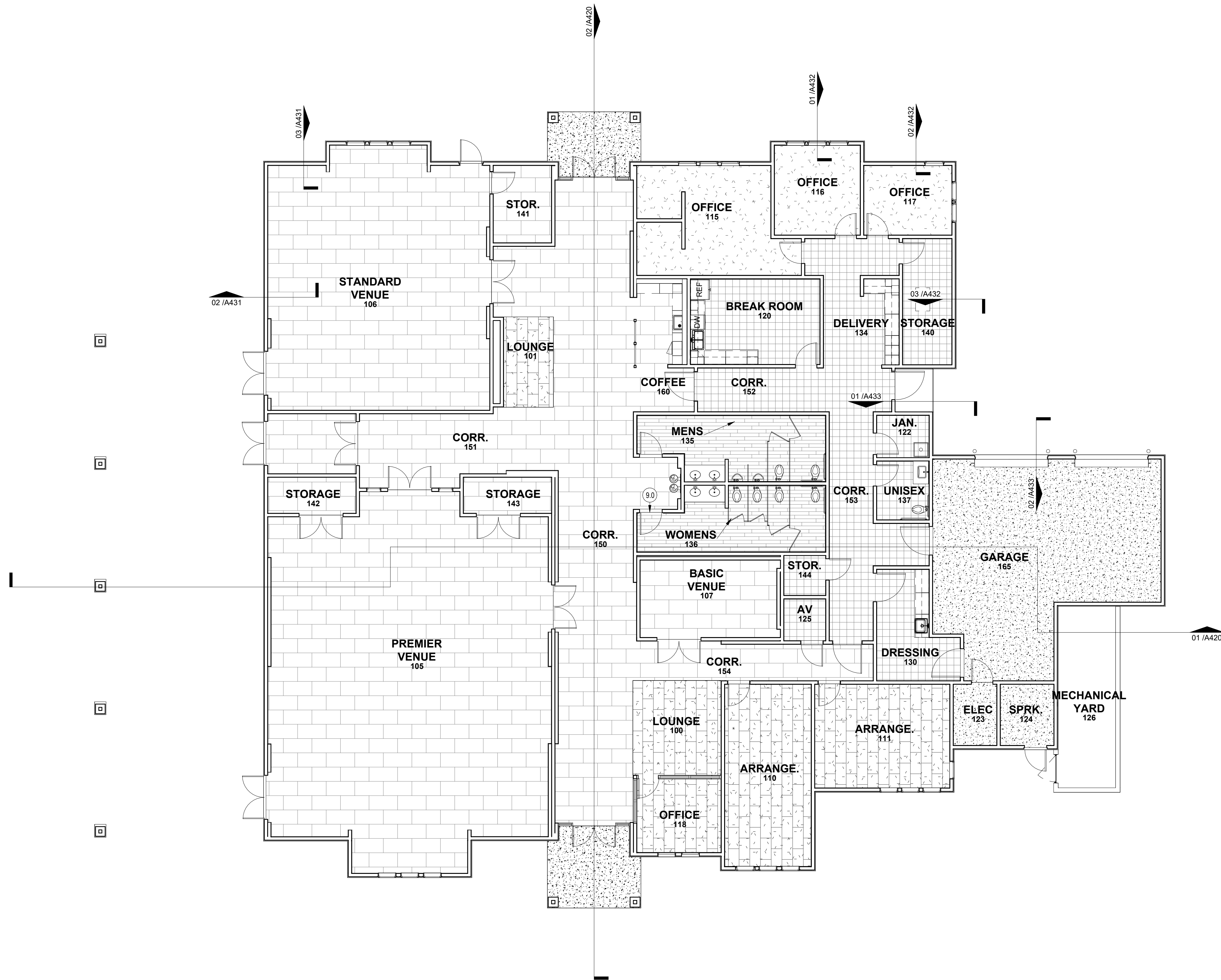
Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78841

N-VIZION
FORMS • ENVIRONMENTS • IMAGES

Overall Finishes Plan
Project Number: 230502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
N-vizion Design, LLC - 301 S. Bagdad Rd., Leander, TX 78841
Registration No.: TX PE Firm F-1223, TX 25489, LA 9413 MI;
1301069591, NV 9252, NC: 14883, OH: ARC 1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev 1 / Permit Set

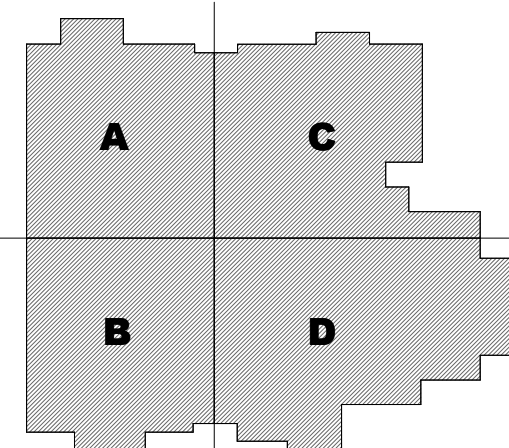
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01 Overall Finishes Plan
1/8" = 1'-0"

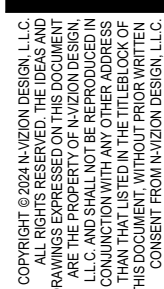
Key Notes4 Copy 1

- CMU BENCH: REF. MATERIALS SCHEDULE AND DETAILS.
- 5' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 4' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
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- PROVIDE CONCRETE EXPANSION JOINT.
- LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN.
- DOWNSPOUT TO DRAIN AWAY FROM FOUNDATION ONTO LAWN.
- ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A010.
- FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13/A010.
- MIRROR AT LAV. REF. SHEET A010.
- SCHLUTER EDGE TRIM.
- SOAP DISPENSER. REF. MATERIALS SCHED.
- COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
- FLOOR SPACE FOR TABLE BY OWNER.
- BOLLARD REF. DETAIL 01/A503.
- KNCK BOX REF. MATERIAL SCHEDULE.
- BABY CHANGING STATION. REF. MATERIALS SCHEDULE-BCS1.
- WIRELESS INTERNET AND SERVER.
- SLOT DIFFUSER.
- DISHWASHER REF. MATERIAL SCHEDULE.
- REFRIGERATOR REF. MATERIAL SCHEDULE.
- INSTALL SOUND ATTENUATION INSULATION. REF. MATERIAL SCHED - INS3.
- FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
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- ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS. REF. ACCESS DETAILS.
- ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- MOP SINK REF. PLUMBING DRAWINGS.
- DOUBLE COMPARTMENT STAINLESS STEEL SINK REF. PLUMBING.



QUADRANT KEY PLAN

FINISH TYPES	
REFERENCE MATERIAL SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION	
P = PAINT	SC = SEALED CONCRETE
T = TILE	VOT = VINYL FLOORING
CPT = CARPET	LT = LAY-IN CEILING
RB = RUBBER BASE	W = WOOD

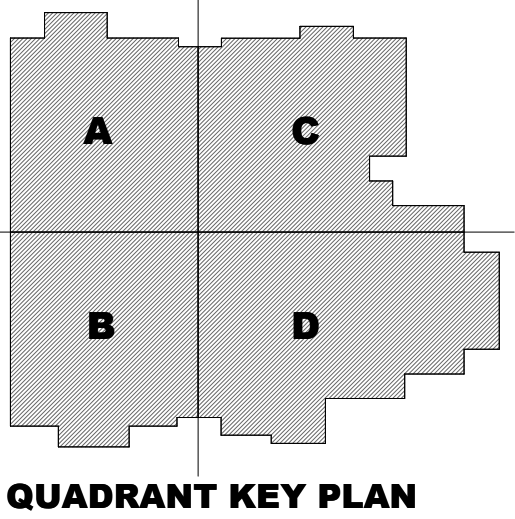


N-VIZION

FORMS • ENVIRONMENTS • IMAGES

Project Number: 230502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78730 p:512.327.9995 www.n-vizion.net
Registration Nos.: TX PE Firm# F-12229, TX#25489, LA: 9413 MI:
1307069591, NV: 8252, NC: 14883, OH: ARC.1917885

A120



01 Overall Reflected Ceiling Plan



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Weed Corley Fish
301 S. Eglar Rd.
Leander, TX 78841

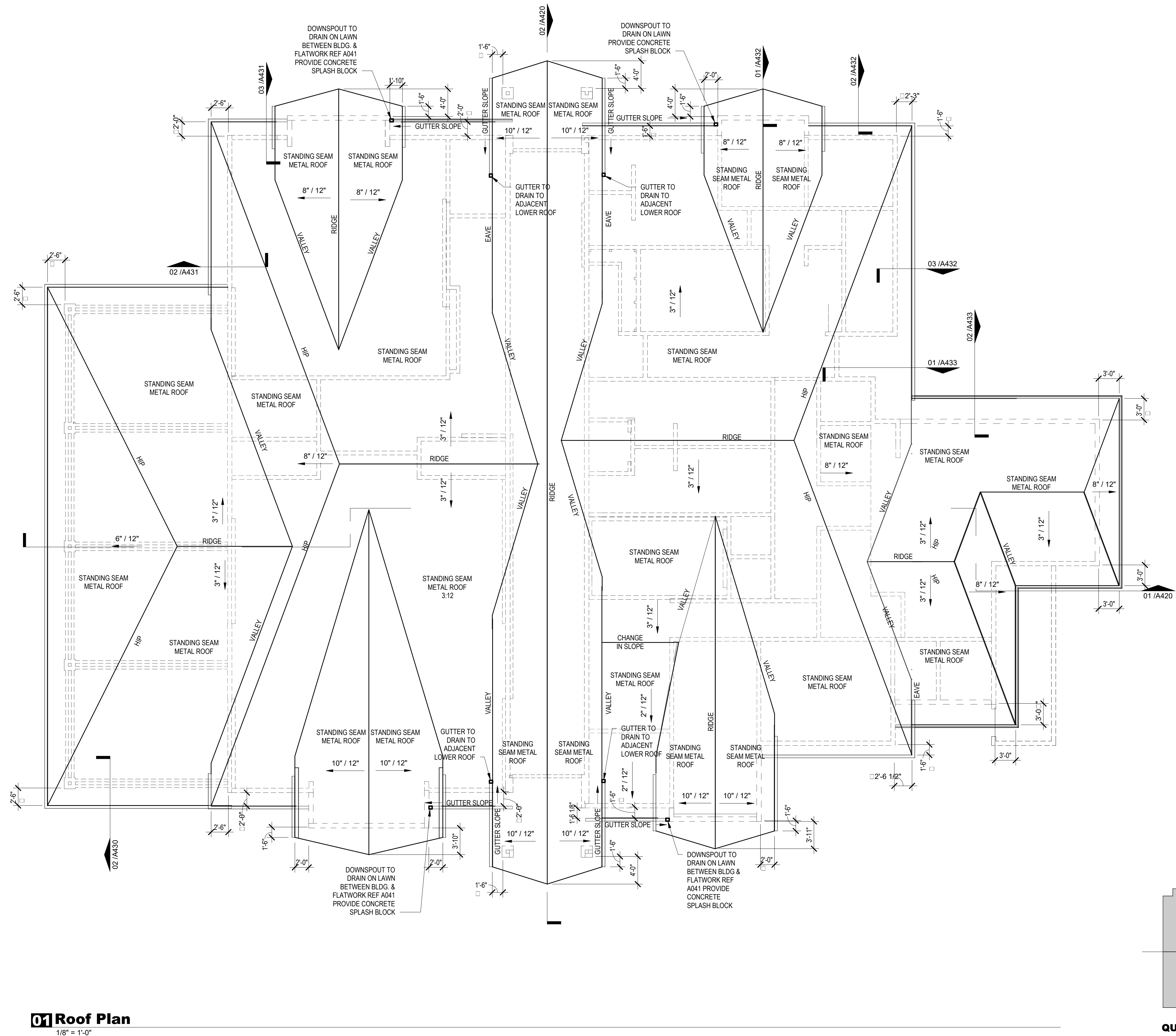
N-VIZION

FORMS • ENVIRONMENTS • IMAGES

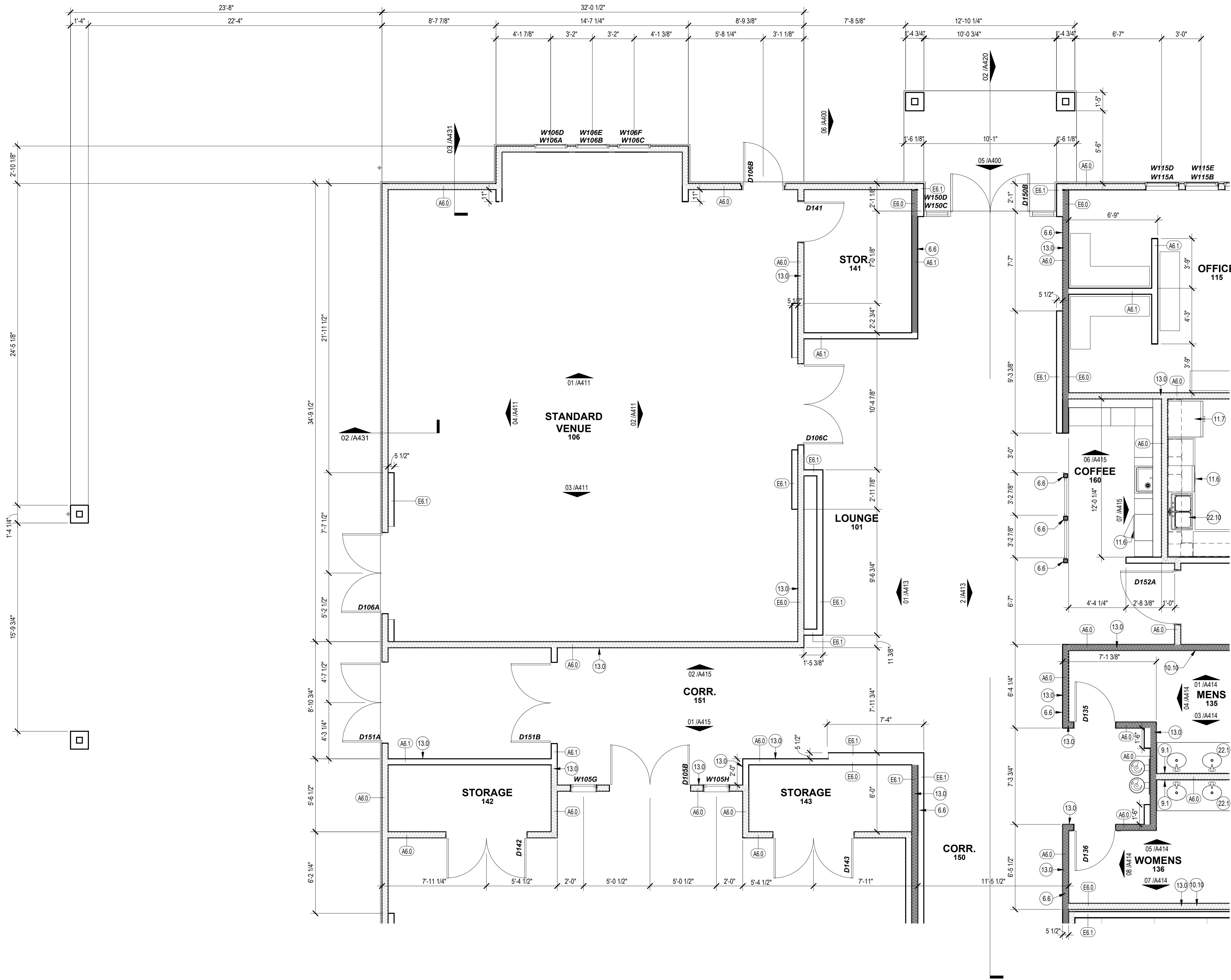
Roof Plan
Project Number: 230502
N-Vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-12223, TX-25489, LA: 6413 MI:
1301069561, NV: 6252, NC: 14883, OH: ARC-1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev 1 Permit Set

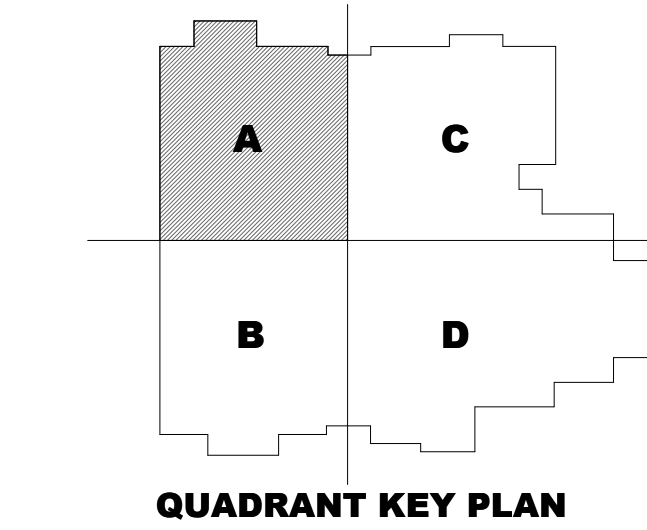
A130



01 Roof Plan
1/8" = 1'-0"



01 Enlarged Floor Plan - Quadrant A
1/4" = 1'-0"



- Key Notes**
- 3.4 CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
 - 3.5 5' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
 - 3.6 4' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
 - 3.8 EDGE OF FOUNDATION. PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLATWORK.
 - 3.9 CONCRETE FLATWORK W/ EXPOSED AGGREGATE FINISH. REFERENCE CIVIL. PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
 - 3.10 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL.
 - 3.11 CONCRETE FLATWORK W/ BROOM FINISH. REF. CIVIL.
 - 3.12 PROVIDE CONCRETE EXPANSION JOINT.
 - 6.6 LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN.
 - 7.0 DOWNSPOUT TO DRAIN AWAY FROM FOUNDATION ONTO LAWN.
 - 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A010.
 - 9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13A010.
 - 9.1 MIRROR AT LAV. REF. SHEET A010.
 - 9.4 SCHLUTER EDGE TRIM.
 - 10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
 - 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
 - 10.2 FLOOR SPACE FOR TABLE BY OWNER.
 - 10.4 BOLLARD REF. DETAIL 01A093.
 - 10.5 KNOX BOX REF. MATERIAL SCHEDULE.
 - 10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE - BCS1.
 - 10.11 WIRELESS INTERNET AND SERVER.
 - 11.0 SLOT DIFFUSER.
 - 11.6 DISHWASHER REF. MATERIAL SCHEDULE.
 - 11.7 REFRIGERATOR REF. MATERIAL SCHEDULE.
 - 13.0 INSTALL SOUND ATTENUATION INSULATION REF. MATERIAL SCHEDULE - INS3.
 - 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
 - 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
 - 22.1 ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
 - 22.2 ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. REF. ACCESS. DETAILS.
 - 22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
 - 22.5 MOP SINK REF. PLUMBING DRAWINGS.
 - 22.10 DOUBLE COMPARTMENT STAINLESS STEEL SINK REF. PLUMBING.



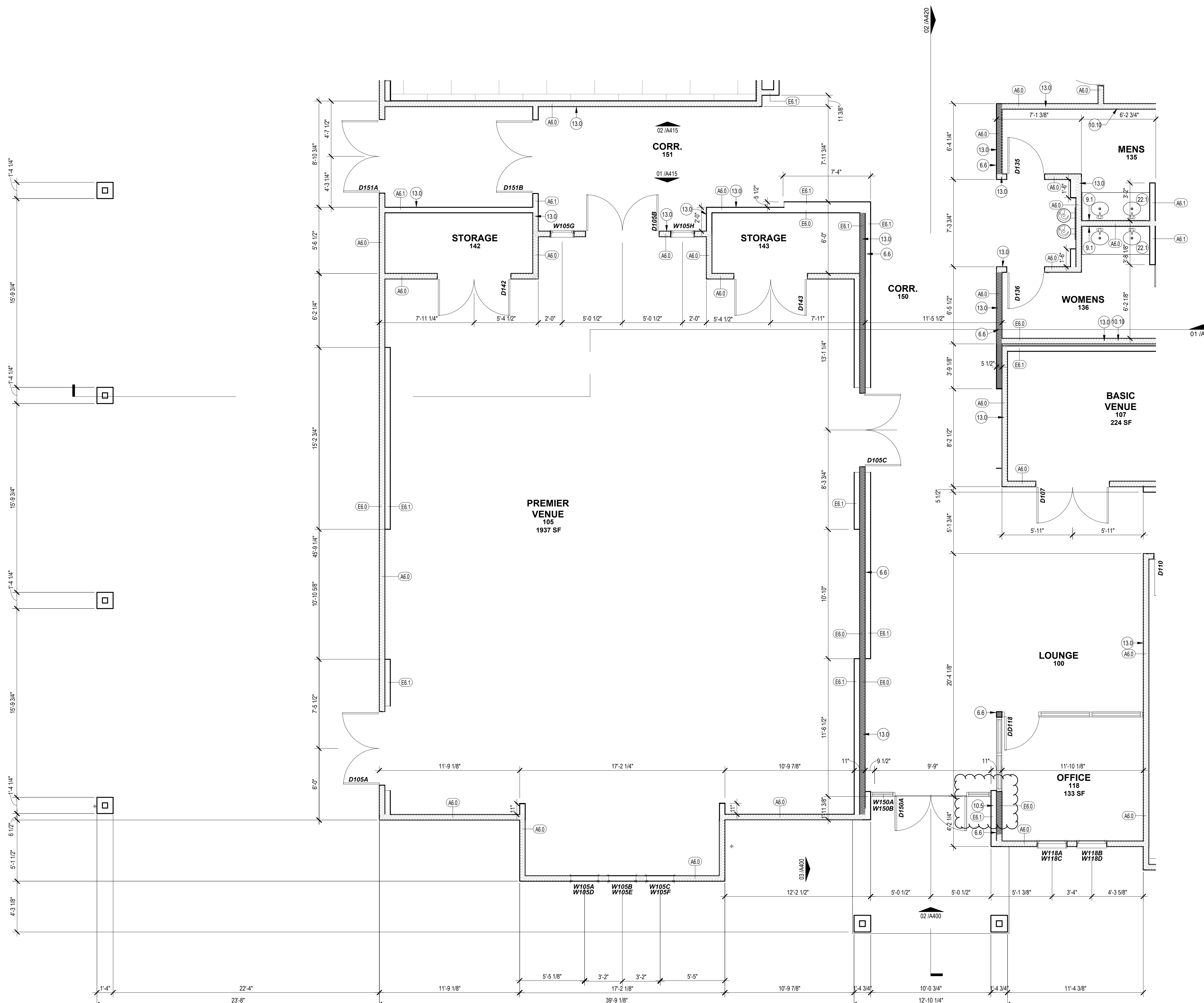
Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78841

N-VIZION
FORMS - ENVIRONMENTS - IMAGES

Enlarged Floor Plan - Quadrant A
Project Number: 220502
N-Vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-1223, TX 25489, LA, 9413 MI;
1301069591, NV 6252, NC: 14883, OH: ARC-1917785

Date:	Description:
06/07/24	CD Set
10/25/24	Rev1 Permit Set

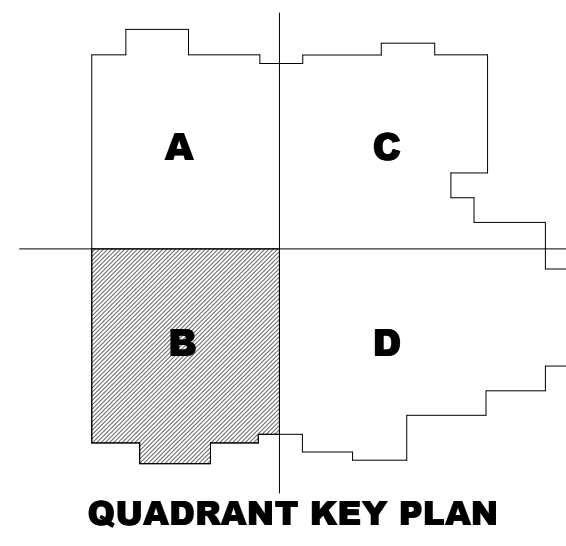
A200



Enlarged Floor Plan - Quadrant B

1/4" = 1'-0"

- Key Notes**
- 3.4 CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
 - 3.5 5' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
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 - 3.10 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL.
 - 3.11 CONCRETE FLATWORK W/ ROOM FINISH. REF. CIVIL.
 - 3.12 PROVIDE CONCRETE EXPANSION JOINT.
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 - 7.0 DOWNSPOUT TO DRAIN AWAY FROM FOUNDATION ONTO LAWN.
 - 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A010.
 - 9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13/A010.
 - 9.1 MIRROR AT LAV. REF. SHEET A010.
 - 9.4 SCHLUTER EDGE TRIM.
 - 10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
 - 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
 - 10.2 FLOOR SPACE FOR TABLE BY OWNER.
 - 10.4 ROLL-UP REF. DETAIL D0400.
 - 10.5 KITCHEN BOX REF. MATERIAL SCHEDULE.
 - 10.9 AED - AUTOMATED EXTERNAL DEFIBRILLATOR REFERENCE MATERIALS SCHEDULE.
 - 10.10 AED - AUTOMATED EXTERNAL DEFIBRILLATOR REFERENCE MATERIALS SCHEDULE.
 - 10.11 WIRELESS INTERNET AND SERVER.
 - 11.0 SLOT DIFFUSER.
 - 11.6 DISHWASHER. REF. MATERIAL SCHEDULE.
 - 11.7 REFRIGERATOR. REF. MATERIAL SCHEDULE.
 - 13.0 INSTALL SOUND ATTENUATION INSULATION. REF. MATERIAL SCHED - INS1.
 - 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
 - 21.4 1 HOUR FIRE BARRIER - REFERENCE U.L. DETAILS A020. ALL PENETRATIONS TO BE 1-HR FIRE RATED.
 - 21.5 PROVIDE SIGNAGE AT EACH ENTRY STATING THE MAXIMUM OCCUPANT LOAD. MAX. OCC. LOAD FOR PREMIER VENUE IS 312. MAX. OCC. LOAD FOR STANDARD VENUE IS 152.
 - 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
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 - 22.10 DOUBLE COMPARTMENT STAINLESS STEEL SINK. REF. PLUMBING.



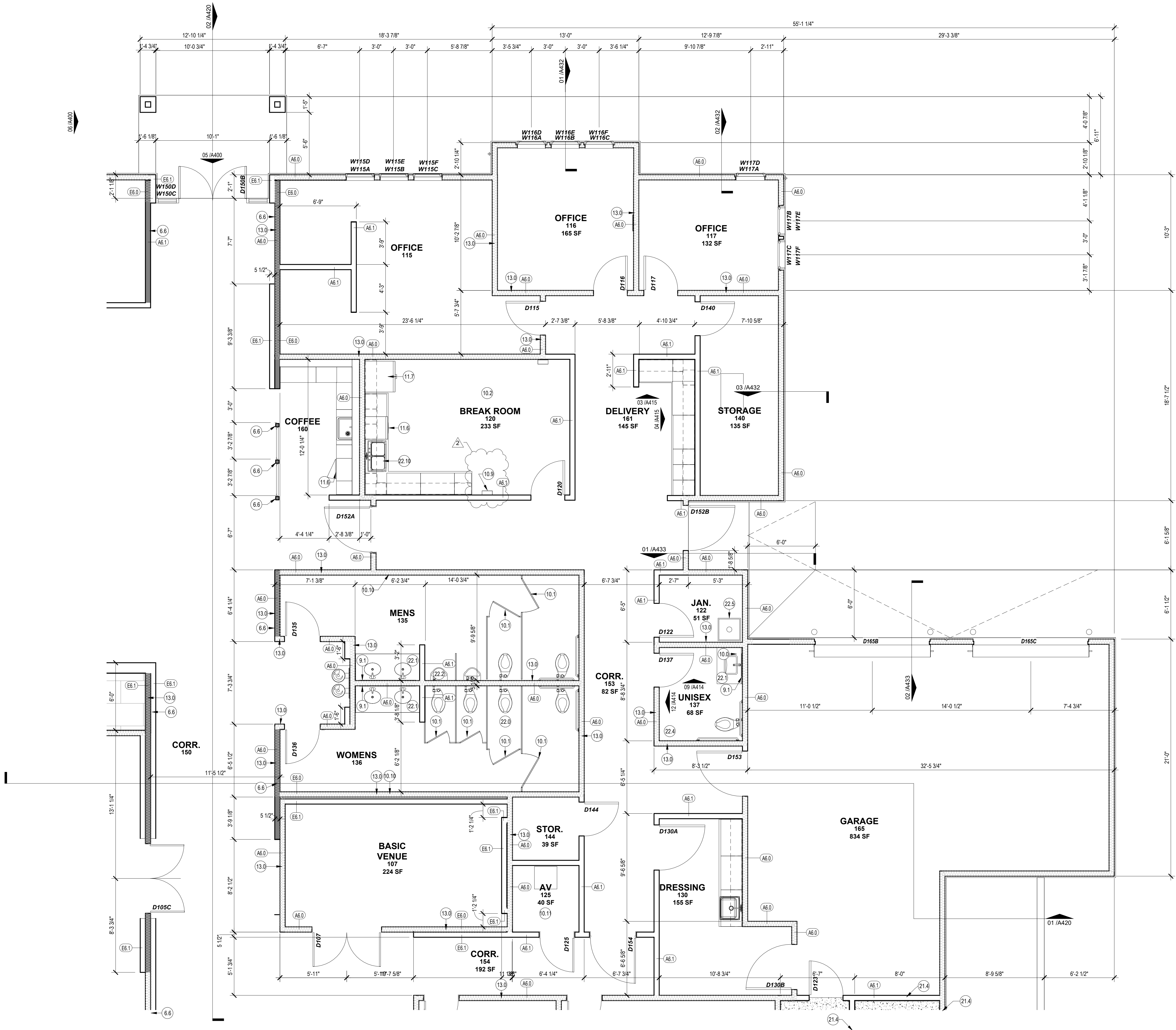
Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78841

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FORMS - ENVIRONMENTS - IMAGES

Enlarged Floor Plan - Quadrant B
Project Number: 220502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-1223, TX-25488, LA, 9413 MI.
1301069591, NV-9252, NC: 14883, OH: AEC-1917885

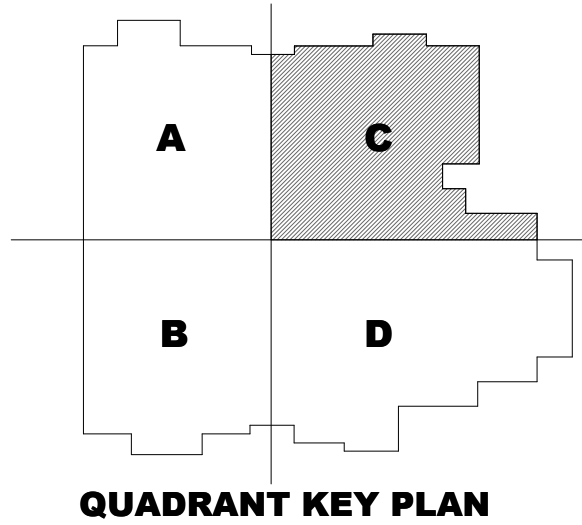
Date:	Description:
06/07/24	CD Set
06/08/24	Rev 1
06/09/25	Rev 2 City Comments

A201



01 Enlarged Floor Plan - Quadrant C
1/4" = 1'-0"

- Key Notes**
- 3.4 CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
 - 3.5 5' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
 - 3.6 4' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
 - 3.8 EDGE OF FOUNDATION. PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLATWORK.
 - 3.9 CONCRETE FLATWORK W/ EXPOSED AGGREGATE FINISH. REFERENCE CIVIL. PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
 - 3.10 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL.
 - 3.11 CONCRETE FLATWORK W/ ROOM FINISH REF. CIVIL.
 - 3.12 PROVIDE CONCRETE EXPANSION JOINT.
 - 6.6 LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN.
 - 7.0 DOWNSPOUT TO DRAIN AWAY FROM FOUNDATION ONTO LAWN.
 - 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP REF. A010.
 - 9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13/A010.
 - 9.1 MIRROR AT LAV. REF. SHEET A010.
 - 9.4 SCHLUTER EDGE TRIM.
 - 10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
 - 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
 - 10.2 FLOOR SPACE FOR TABLE BY OWNER.
 - 10.4 BOLLARD REF. DETAIL 01/A603.
 - 10.5 KNOX BOX REF. MATERIAL SCHEDULE.
 - 10.9 AED - AUTOMATED EXTERNAL DEFIBRILLATOR REFERENCE MATERIALS SCHEDULE.
 - 10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE - BCSL.
 - 10.11 WIRELESS INTERNET AND SERVER.
 - 11.0 SLOT DIFFUSER.
 - 11.6 DISHWASHER REF. MATERIAL SCHEDULE.
 - 11.7 REFRIGERATOR REF. MATERIAL SCHEDULE.
 - 13.0 INSTALL SOUND ATTENUATION INSULATION REF. MATERIAL SCHED - INS3.
 - 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
 - 21.4 1 HOUR FIRE BARRIER - REFERENCE U.I. DETAILS A020. ALL PENETRATIONS TO BE 1-HR FIRE RATED.
 - 21.5 PROVIDE SIGNAGE AT EACH ENTRY STATING THE MAXIMUM OCCUPANT LOAD. MAX. OCC. LOAD FOR PREMIER VENUE IS 312. MAX. OCC. LOAD FOR STANDARD VENUE IS 182.
 - 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
 - 22.1 ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
 - 22.2 ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS. REF. ACCESS. DETAILS.
 - 22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
 - 22.5 MOP SINK REF. PLUMBING DRAWINGS.
 - 22.10 DOUBLE COMPARTMENT STAINLESS STEEL SINK REF. PLUMBING.



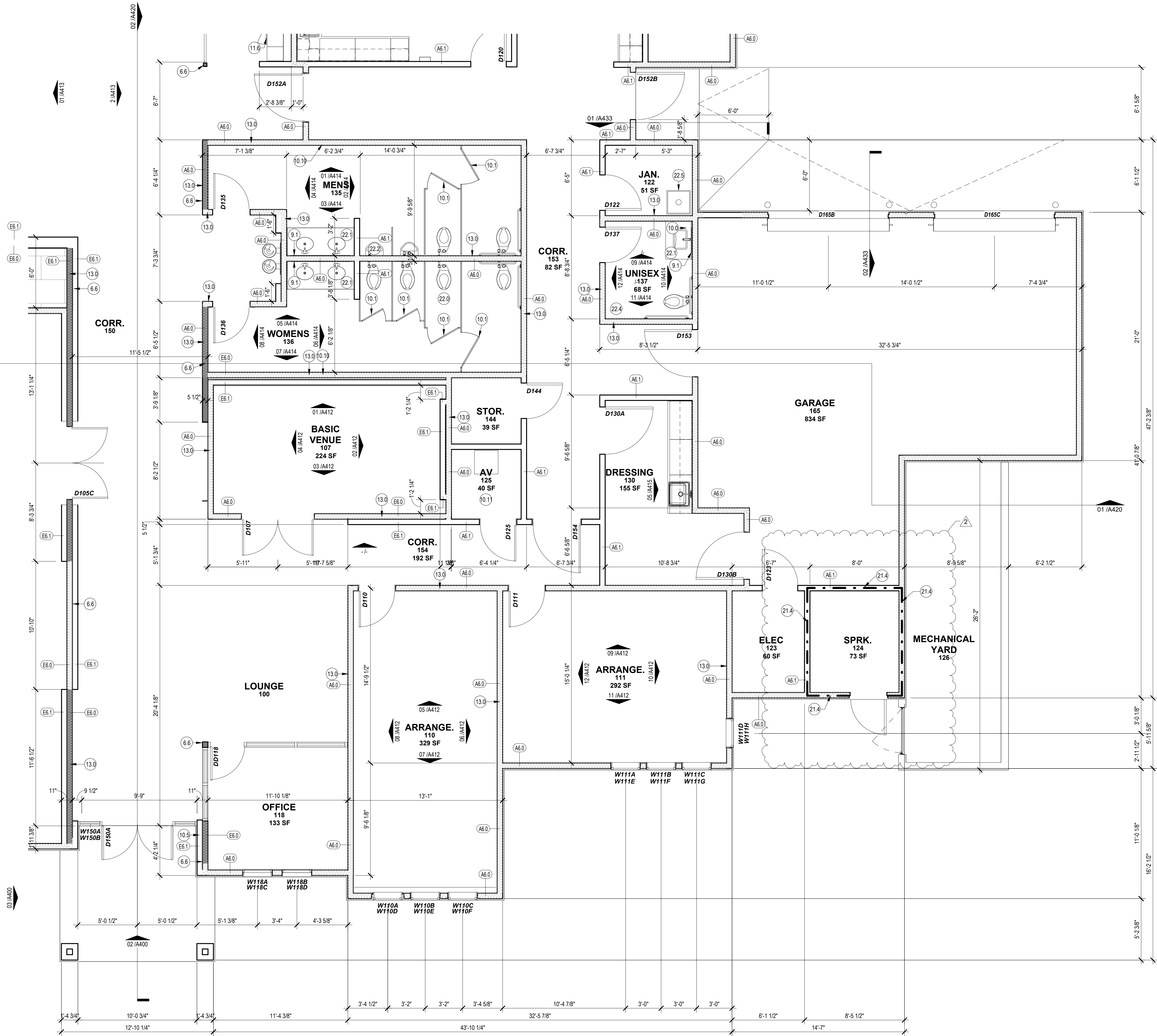
Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78641

N-VIZION
FORMS - ENVIRONMENTS - IMAGES

Enlarged Floor Plan - Quadrant C
Project Number: 220502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-1223, TX-25489, LA, 6413 MI
1301069591, NV 6252, NC: 14883, OH: ARC-1917885

Date:	Description:
06/07/24	CD Set
06/08/24	Rev 1
06/09/25	Rev 2 City Comments

A202

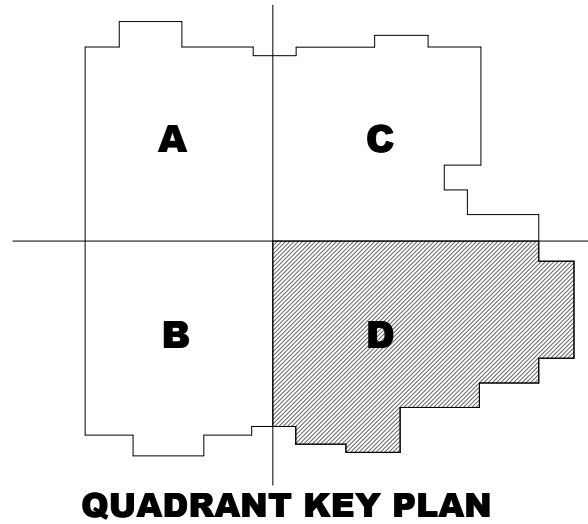


2 Enlarged Floor Plan - Quadrant D

1/4" = 1'-0"

Key Notes2

- 3.4 CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
- 3.5 5' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.6 4' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.8 EDGE OF FOUNDATION. PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLATWORK.
- 3.9 CONCRETE FLATWORK W/ EXPOSED AGGREGATE FINISH. REFERENCE CIVIL. PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
- 3.10 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL.
- 3.11 CONCRETE FLATWORK W/ BROOM FINISH. REF. CIVIL.
- 3.12 PROVIDE CONCRETE EXPANSION JOINT.
- 6.6 LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN.
- 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP REF. A010.
- 9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13/A010.
- 9.1 MIRROR AT LAV. REF. SHEET A010.
- 9.4 SCHLUTTER EDGE TRIM.
- 10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
- 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
- 10.2 FLOOR SPACE FOR TABLE BY OWNER.
- 10.4 BOLLARD REF. DETAIL 01/A003.
- 10.5 KNOX BOX REF. MATERIAL SCHEDULE.
- 10.9 AED - AUTOMATED EXTERNAL DEFIBRILLATOR REFERENCE MATERIALS SCHEDULE.
- 10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE-BCS1.
- 10.11 WIRELESS INTERNET AND SERVER.
- 11.0 SLOT DIFFUSER.
- 11.7 REFRIGERATOR REF. MATERIAL SCHEDULE.
- 13.0 INSTALL SOUND ATTENUATION INSULATION REF. MATERIAL SCHED - INS3.
- 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
- 21.4 1 HOUR FIRE BARRIER - REFERENCE U.L. DETAILS A020. ALL PENETRATIONS TO BE 1-HR FIRE RATED.
- 21.5 PROVIDE SIGNAGE AT EACH ENTRY STATING THE MAXIMUM OCCUPANT LOAD. MAX. OCC. LOAD FOR PREMIER VENUE IS 312. MAX. OCC. LOAD FOR STANDARD VENUE IS 162.
- 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.1 ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
- 22.2 ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS. REF. ACCESS. DETAILS.
- 22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.5 MOP SINK REF. PLUMBING DRAWINGS.



Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78641

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FORMS - ENVIRONMENTS - IMAGES

Enlarged Floor Plan - Quadrant D

Project Number: 220502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration No.: TX PE Firm F-1223, TX-25489, LA, 6413 MI;
1301069591, NV-6252, NC: 14883, OH: ARC-1917785

Date:	Description:	By:	Check:
06/07/24	CD Set	WCF	WCF
06/09/25	Revised	WCF	WCF
06/09/25	Revised	WCF	WCF

A203



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Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78841

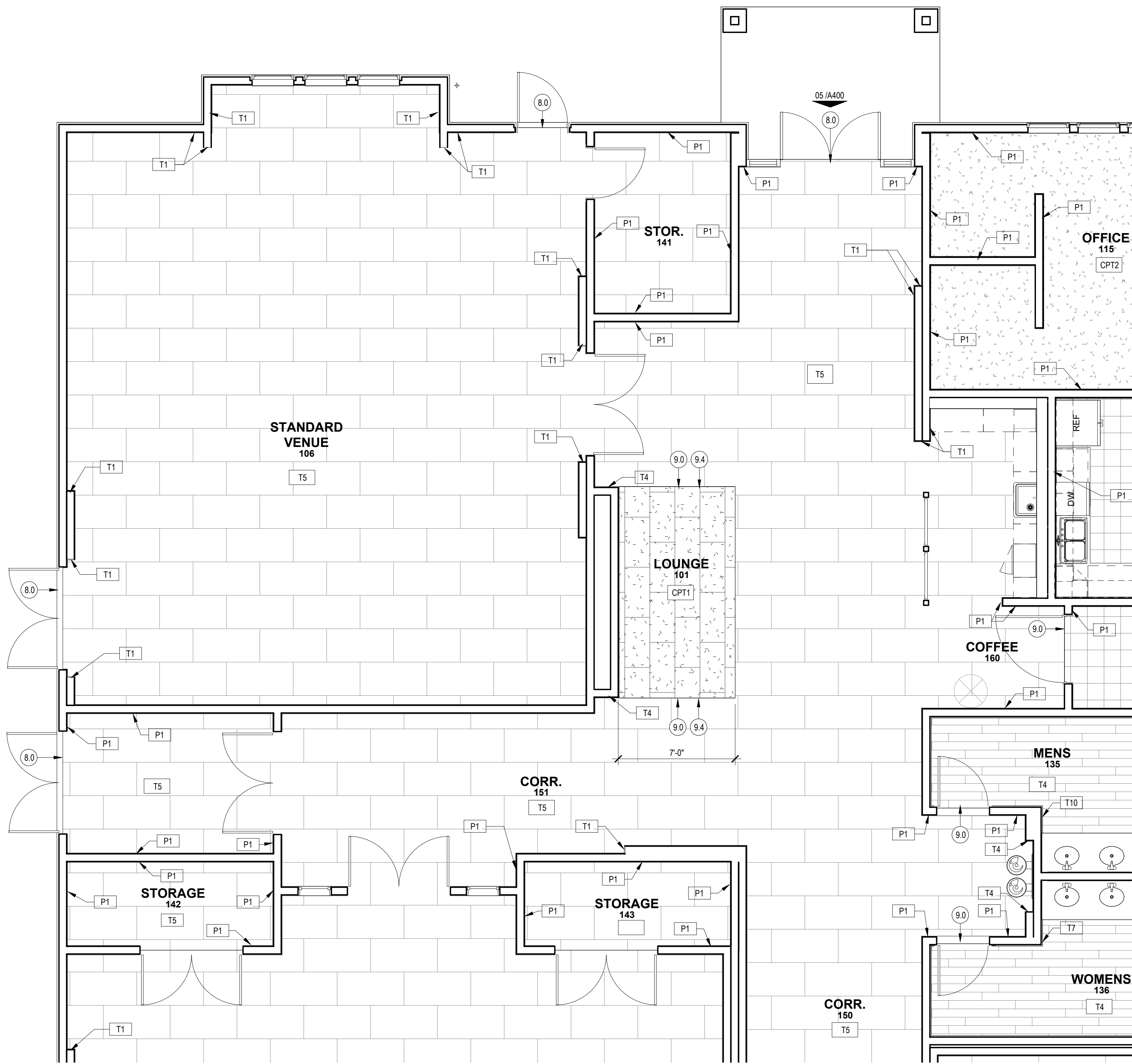
N-VIZION
FORMS • ENVIRONMENTS • IMAGES

Enlarged Finish Plan - Quadrant A

Project Number: 220502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Leander, TX 78841
Registration No.: TX PE Firm F-1223, TX 25488, LA 6413 MI:
1301069591, NV 6252, NC: 14883, OH: ARC 1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev 1 / Permit Set

A210

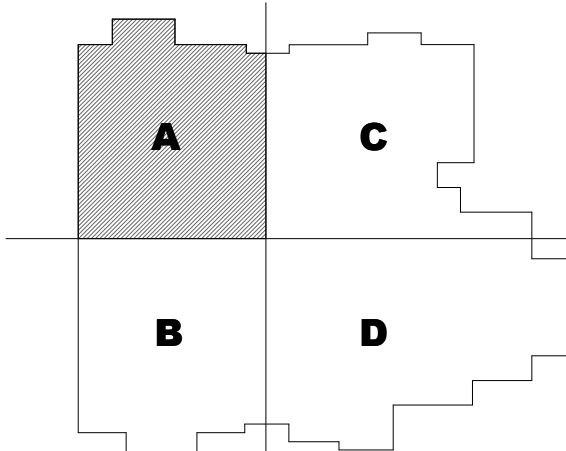


Key Notes

- 3.4 CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
- 3.5 5" TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.6 4" TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
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- 3.12 PROVIDE CONCRETE EXPANSION JOINT.
- 6.6 LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL- IDENTIFIED BY GRAY HATCH ON PLAN.
- 7.0 DOWNSPOUT TO DRAIN AWAY FROM FOUNDATION ONTO LAWN.
- 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A010.
- 9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13A010.
- 9.1 MIRROR AT LAV. REF. SHEET A010.
- 9.4 SCHLUTER EDGE TRIM.
- 10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
- 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
- 10.2 FLOOR SPACE FOR TABLE BY OWNER.
- 10.4 BOLLARD REF. DETAIL 01A035.
- 10.5 KNOX BOX REF. MATERIAL SCHEDULE.
- 10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE-BCS1.
- 10.11 WIRELESS INTERNET AND SERVER.
- 11.0 SLOT DIFFUSER.
- 11.6 DISHWASHER REF. MATERIAL SCHEDULE.
- 11.7 REFRIGERATOR REF. MATERIAL SCHEDULE.
- 12.0 INSTALL SOUND ATTENUATION INSULATION. REF. MATERIAL SCHED-INS3.
- 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
- 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.1 ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
- 22.2 ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS. REF. ACCESS. DETAILS.
- 22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.5 MOP SINK REF. PLUMBING DRAWINGS.
- 22.10 DOUBLE COMPARTMENT STAINLESS STEEL SINK REF. PLUMBING.

FINISH TYPES

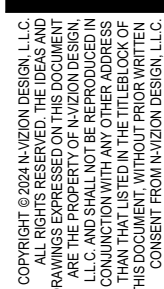
REFERENCE MATERIAL SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION	
P = PAINT	SC = SEALED CONCRETE
T = TILE	VCT = VINYL FLOORING
CPT = CARPET	LT = LAY-IN CEILING
RB = RUBBER BASE	W = WOOD



QUADRANT KEY PLAN

01 Enlarged Finish Plan - Quadrant A

1/4" = 1'-0"



Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78641

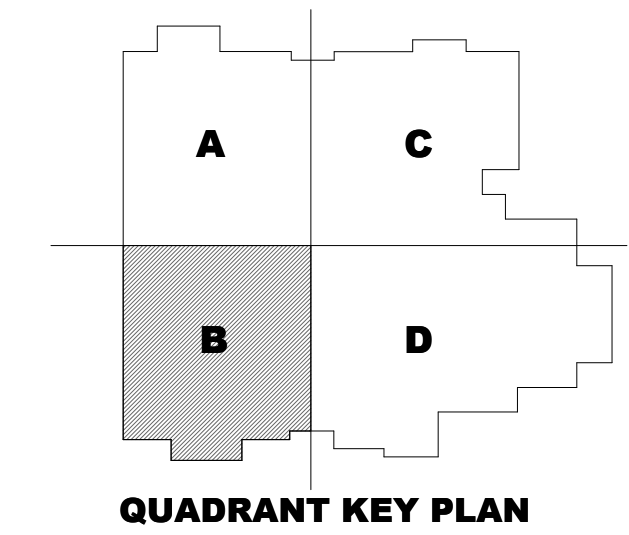
N-VIZION
FORMS • ENVIRONMENTS • IMAGES

Enlarged Finish Plan - Quadrant B

Project Number: 230502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78730 p:512.327.9995 www.n-vizion.net
Registration Nos.: TX PE Firm# F-12229, TX:25489, LA: 9413 MI:
1307069591, NV: 8252, NC: 14883, OH: ARC.1917885

Date:	Description:
06.07.24	CD Set
10.25.24	Rev1 Permit Set

A211



3.45 CMU BENCH: REF MATERIALS SCHEDULE AND DETAILS.

3.58 8" TALL CMU WALL WITH THE FINISH ELEVATIONS, DETAILS, & MATERIALS SCHEDULE.

3.66 4" TALL CMU WALL WITH THE FINISH ELEVATIONS, DETAILS, & MATERIALS SCHEDULE.

3.68 EDGE OF FOUNDATION: PROVIDE EXPANDED JOINT BETWEEN FOUNDATION AND FLOORWORK.

3.99 CONCRETE FLOORWORK W/ EXPOSED AGGREGATE FINISH. REFERENCE CIVIL. PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.

3.100 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL.

3.111 CONCRETE FLOORWORK W/ BROOM FINISH. REF. CIVIL.

3.112 PROVIDE CONCRETE EXPANSION JOINT.

6.62 2" X 8" BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN.

7.0 DOWNPOUT TO DRAIN AWAY FROM FOUNDATION OUT TO LAWN.

8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A10.

9.0 FLOORING INSTALLATION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/8" IF BEVELLED. REF. ACCESSIBILITY DETAIL 13/A10.

9.1 MIRROR AT 1/4" REF. SHEET A10.

9.4 SLOUTER EDGE TRIM.

10.0 SCRAP DISPENSER. REF. MATERIALS SCHED.

10.1 COAT 1/8" THICK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.

10.2 FLOOR SPACE FOR BATH BY OWNER.

10.4 BOLLARD REF. DETAIL 01/A103

10.10 KNOX BOX REF. MATERIALS SCHEDULE

10.10 BAY CHANGING STATION. REF. MATERIALS SCHEDULE-BCS1

10.11 WIRELESS INTERNET AND SERVER.

10.12 SLOTT DIFFUSER.

11.6 DISHWASHER REF. MATERIAL SCHEDULE.

11.8 REFRIGERATOR REF. MATERIALS SCHEDULE.

11.90 INSTALL SOUND ATTENUATION INSULATION REF. MATERIAL SCHED-INS3

21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FECl MATERIALS SCHEDULE.

22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.

22.1 ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.

22.2 ACCESSIBLE URINAL PROVIDE PLUMBING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS REF. DETAILS.

22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.

22.5 MON SINK REF. PLUMBING DRAWINGS.

22.10 DOUBLE COMPARTMENT STAINLESS STEEL SINK REF. PLUMBING

REFERENCE MATERIAL SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION	
P = PAINT	SC = SEALED CONCRETE
T = TILE	VCT = VINYL FLOORING
CPT = CARPET	LT = LAY-IN CEILING
RB = RUBBER BASE	W = WOOD

01 Enlarged Finish Plan - Quadrant B
1/4" = 1'-0"



01 Enlarged Finish Plan - Quadrant C
1/4" = 1'-0"

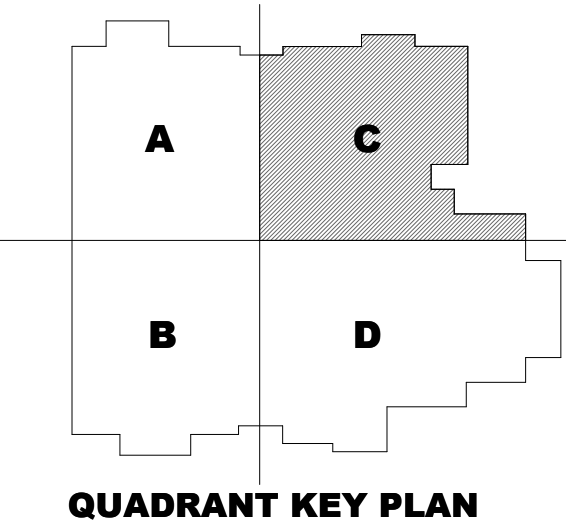
Key Notes

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- 9.1 MIRROR AT LAV. REF. SHEET A010.
- 9.4 SCHLUTER EDGE TRIM.
- 10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
- 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
- 10.2 FLOOR SPACE FOR TABLE BY OWNER.
- 10.4 BOLLARD REF. DETAIL 01A03.
- 10.5 KNOX BOX REF. MATERIAL SCHEDULE.
- 10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE-BCS1.
- 10.11 WIRELESS INTERNET AND SERVER.
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Weed Corley Fish
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Leander, TX 78641

N-VIZION
FORMS • ENVIRONMENTS • IMAGES

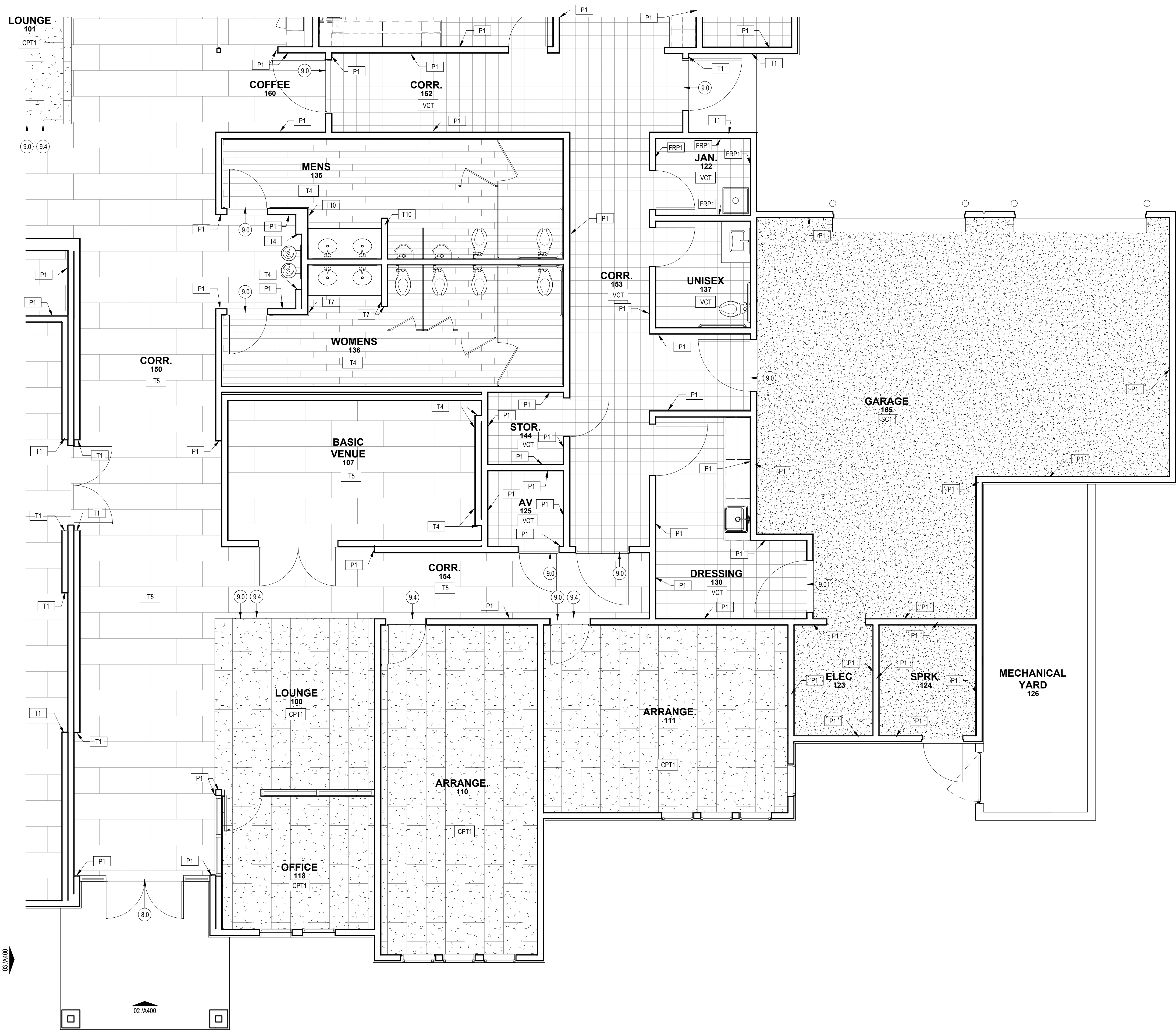
Enlarged Finish Plan - Quadrant C

Project Number: 220502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-2223, TX-25488, LA, 6413 MI:
1301069591, NV-6252, NC: 14883, OH: 1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev1 Permit Set

A212

Date:	Description:
06/07/24	CD Set
10/25/24	Rev 1 Permit Set



01 Enlarged Finish Plan - Quadrant D
1/4" = 1'-0"

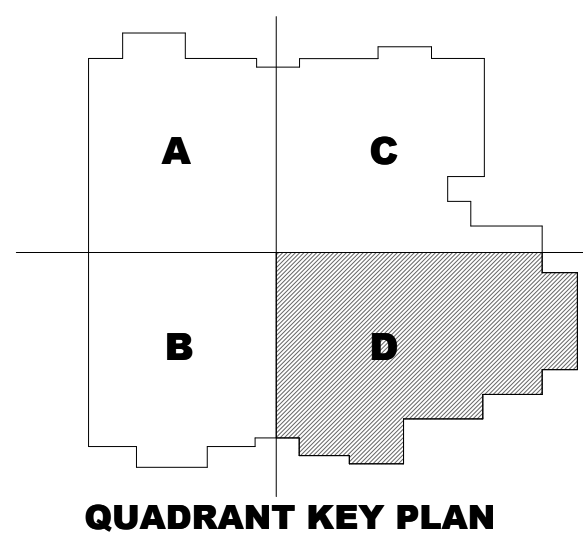
Key Notes4

- CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
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- COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
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- KNOX BOX REF. MATERIAL SCHEDULE.
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- FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
- ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
- ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS. REF. ACCESS. DETAILS.
- ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- MOP SINK REF. PLUMBING DRAWINGS.

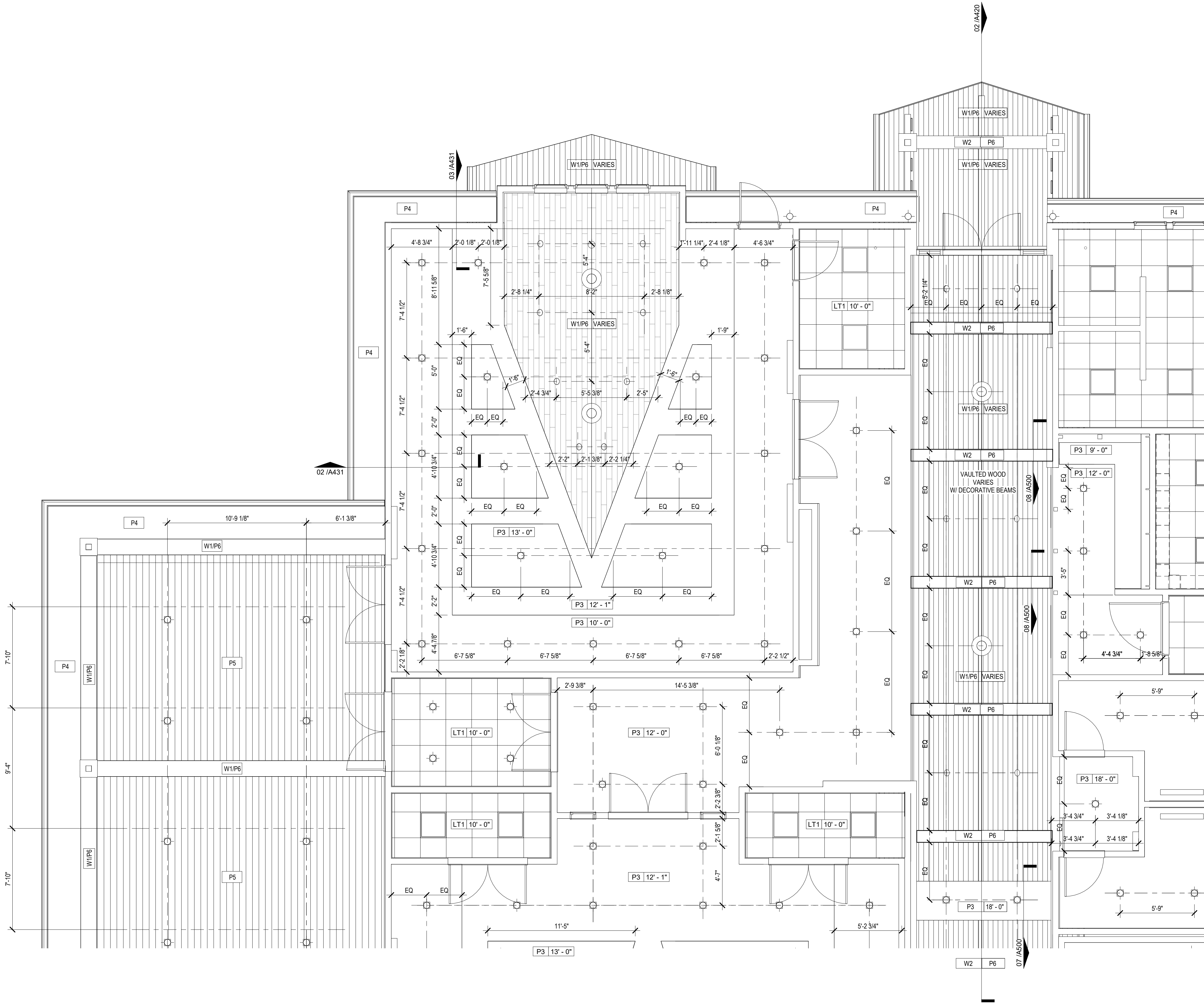
FINISH TYPES

REFERENCE MATERIAL SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION

P = PAINT	SC = SEALED CONCRETE
T = TILE	VCT = VINYL FLOORING
CPT = CARPET	LT = LAY-IN CEILING
RS = RUBBER BASE	W = WOOD



QUADRANT KEY PLAN

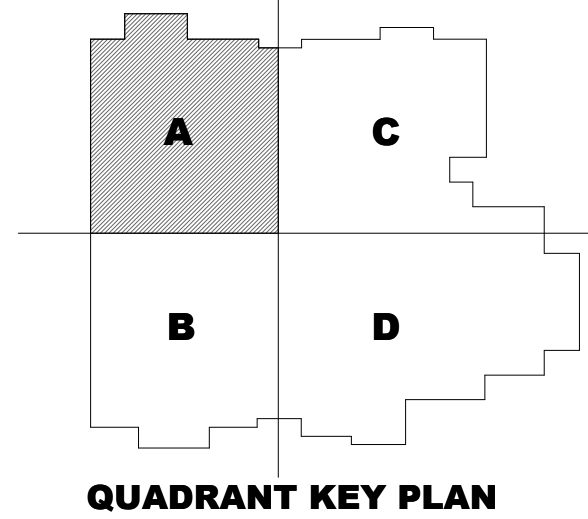


01 Enlarged RCP - Quadrant A
1/4" = 1'-0"

- Key Notes4**
- 3.4 CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
 - 3.5 8" TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
 - 3.6 4" TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
 - 3.8 EDGE OF FOUNDATION. PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLATWORK.
 - 3.9 CONCRETE FLATWORK W/ EXPOSED AGGREGATE FINISH. REFERENCE CIVIL. PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
 - 3.10 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL.
 - 3.11 CONCRETE FLATWORK W/ ROOM FINISH. REF. CIVIL.
 - 3.12 PROVIDE CONCRETE EXPANSION JOINT.
 - 6.6 LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL. IDENTIFIED BY GRAY HATCH ON PLAN.
 - 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A010.
 - 9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13/A010.
 - 9.1 MIRROR AT LAV. REF. SHEET A010.
 - 9.4 SCHLUTER EDGE TRIM.
 - 10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
 - 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
 - 10.2 FLOOR SPACE FOR TABLE BY OWNER.
 - 10.4 BOLLARD REF. DETAIL 01/A503.
 - 10.5 KNOX BOX REF. MATERIAL SCHEDULE.
 - 10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE-BCS1.
 - 10.11 WIRELESS INTERNET AND SERVER.
 - 11.0 SLOT DIFFUSER.
 - 11.7 REFRIGERATOR REF. MATERIAL SCHEDULE.
 - 13.0 INSTALL SOUND ATTENUATION INSULATION REF. MATERIAL SCHED - INS3.
 - 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
 - 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
 - 22.1 ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
 - 22.2 ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS. REF. ACCESS. DETAILS.
 - 22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
 - 22.5 MOP SINK REF. PLUMBING DRAWINGS.

LIGHTING FIXTURES	
REFERENCE FIXTURE SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION	
	2 X 2 TROFFER
	CHANDELIER
	1 X 2 LINEAR BOX
	RECESSED CAN
	RECESSED COLORED
	SCONCE
	STEP LIGHT
	UPLIGHT
	LINEAR UPLIGHT

FINISH TYPES	
REFERENCE MATERIAL SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION	
P = PAINT	SC = SEALED CONCRETE
T = TILE	VCT = VINYL FLOORING
CPT = CARPET	LT = LAY-IN CEILING
RB = RUBBER BASE	W = WOOD



QUADRANT KEY PLAN



WEED CORLEY FISH
301 S. Bagdad Rd.
Leander, TX 78841

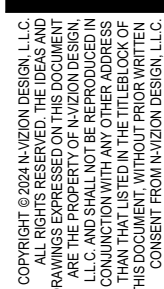
Enlarged RCP - Quadrant A
Project Number: 220502
N-Vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration No.: TX PE Firm F-1223, TX-25489, LA, 9413 MI,
1301069561, NV 6252, NC: 14883, OH: ARC-1917885

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FORMS • ENVIRONMENTS • IMAGES

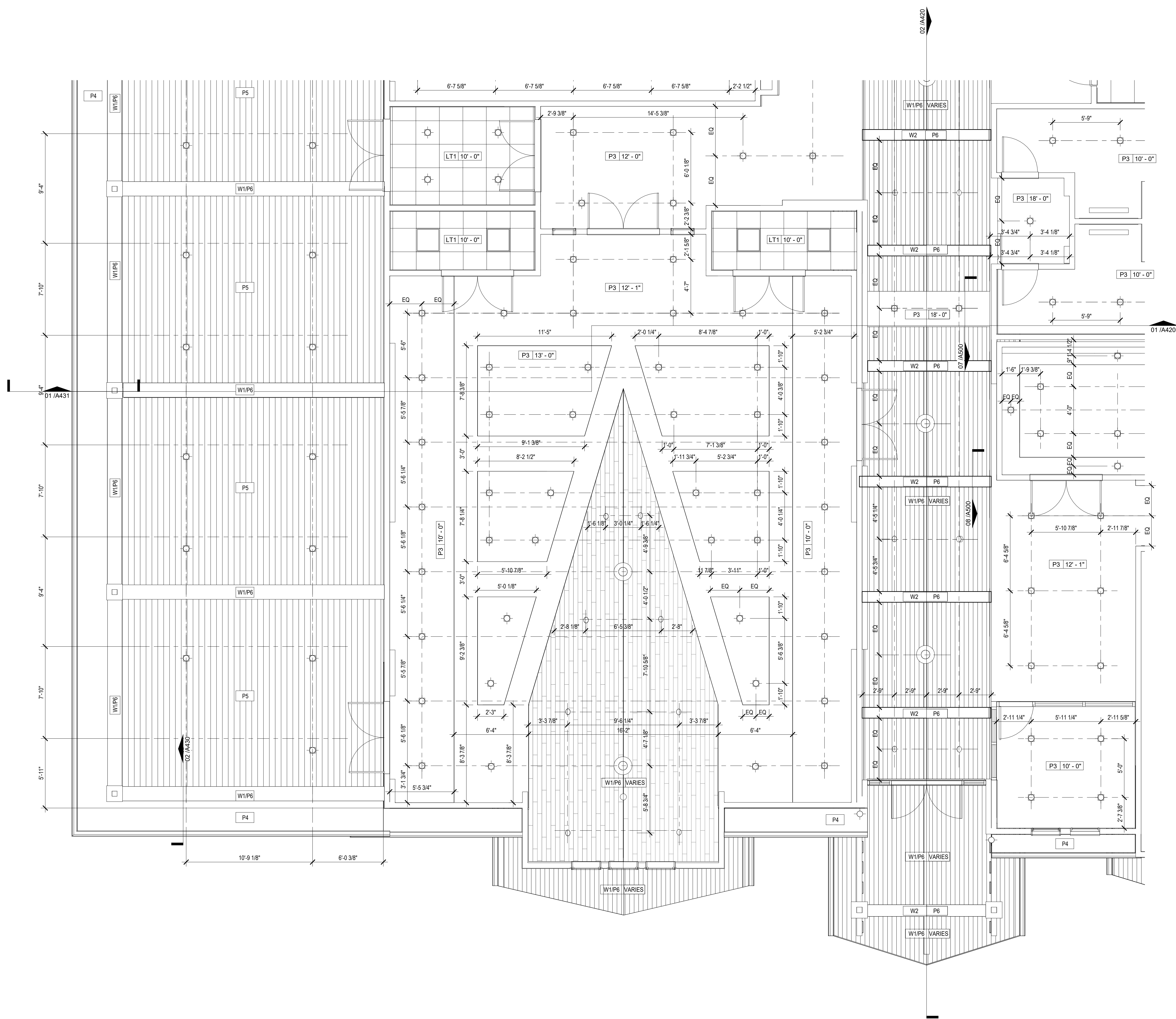
Enlarged RCP - Quadrant A
Project Number: 220502
N-Vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration No.: TX PE Firm F-1223, TX-25489, LA, 9413 MI,
1301069561, NV 6252, NC: 14883, OH: ARC-1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev 1 Permit Set

A220



N-VIZION
FORMS • ENVIRONMENTS • IMAGES



Key Notes4

- 3.5 CMU BENCH, REF. MATERIALS SCHEDULE AND DETAILS.
- 3.6 1" TALL CMU WALL WITH THE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.6 1" TALL CMU WALL WITH THE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.8 EDGE OF FOUNDATION, PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLATWORK.
- 3.9 CONCRETE FLATWORK W/ EXPOSED AGGREGATE FINISH REFERENCE TO CIVIL. PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
- 3.10 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL.
- 3.11 CONCRETE FLATWORK W/ BROOM FINISH. REF. CIVIL.
- 3.12 PROVIDE CONCRETE EXPANSION JOINT
- 6.0 LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN
- 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A101.
- 9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13A/10.
- 9.1 MIRROR AT L.V. REF. SHEET A101.
- 9.4 SCHLITZER EDGE TRIM.
- 10.0 SOAP DISPENSER, REF. MATERIALS SCHED.
- 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHEDULE.
- 10.2 FLOOR SPACE FOR DETAIL BY OWNER.
- 10.3 BOLLARD REF. DETAIL 01A/03
- 10.5 KNOX BOX REF. MATERIAL SCHEDULE
- 10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE. BC-S1
- 10.11 WIRELESS INTERNET AND SERVER
- 10.12 TOILET DUFFUSER
- 10.17 REFRIGERATOR REF. MATERIAL SCHEDULE.
- 13.0 INSTALL SOUND ATTENUATION INSULATION FOR MATERIAL SCHED - INS3
- 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE
- 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BIDDING AS REQUIRED FOR GRAB BARS.
- 22.1 ACCESSIBLE LAV. REF. DETAILS. PROVIDE INSULATING SLEEVE OVER PLUMBING.
- 22.2 ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. REFERENCE SHOWN ON PLAN. INSTALL REF. T&S REQUIREMENTS. REF. ACCESS DETAILS.
- 22.3 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BIDDING AS REQUIRED FOR GRAB BARS.
- 22.4 MOP SINK REF. PLUMBING DRAWINGS.

LIGHTING FIXTURES

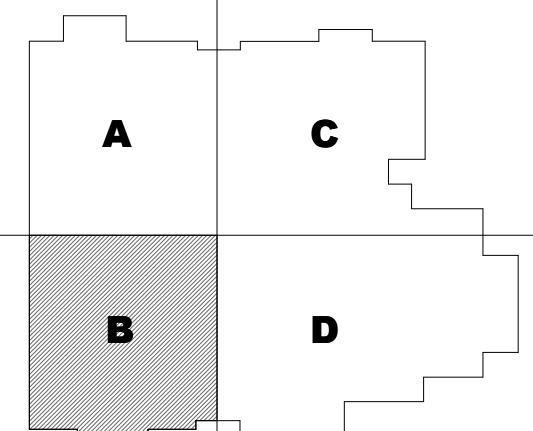
REFERENCE FIXTURE SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION

LAMP STYLE AND PRODUCT DESCRIPTION	
	2 X 2 TROFFER
	CHANDELIER
	1 X 2 LINEAR BOX
	RECESSED CAN
	RECESSED COLORED
	SCONCE
	STEP LIGHT
	UPLIGHT
	LINEAR UPLIGHT

FINISH TYPES

REFERENCE MATERIAL SCHEDULE FOR
MANUFACTURER AND PRODUCT DESCRIPTION

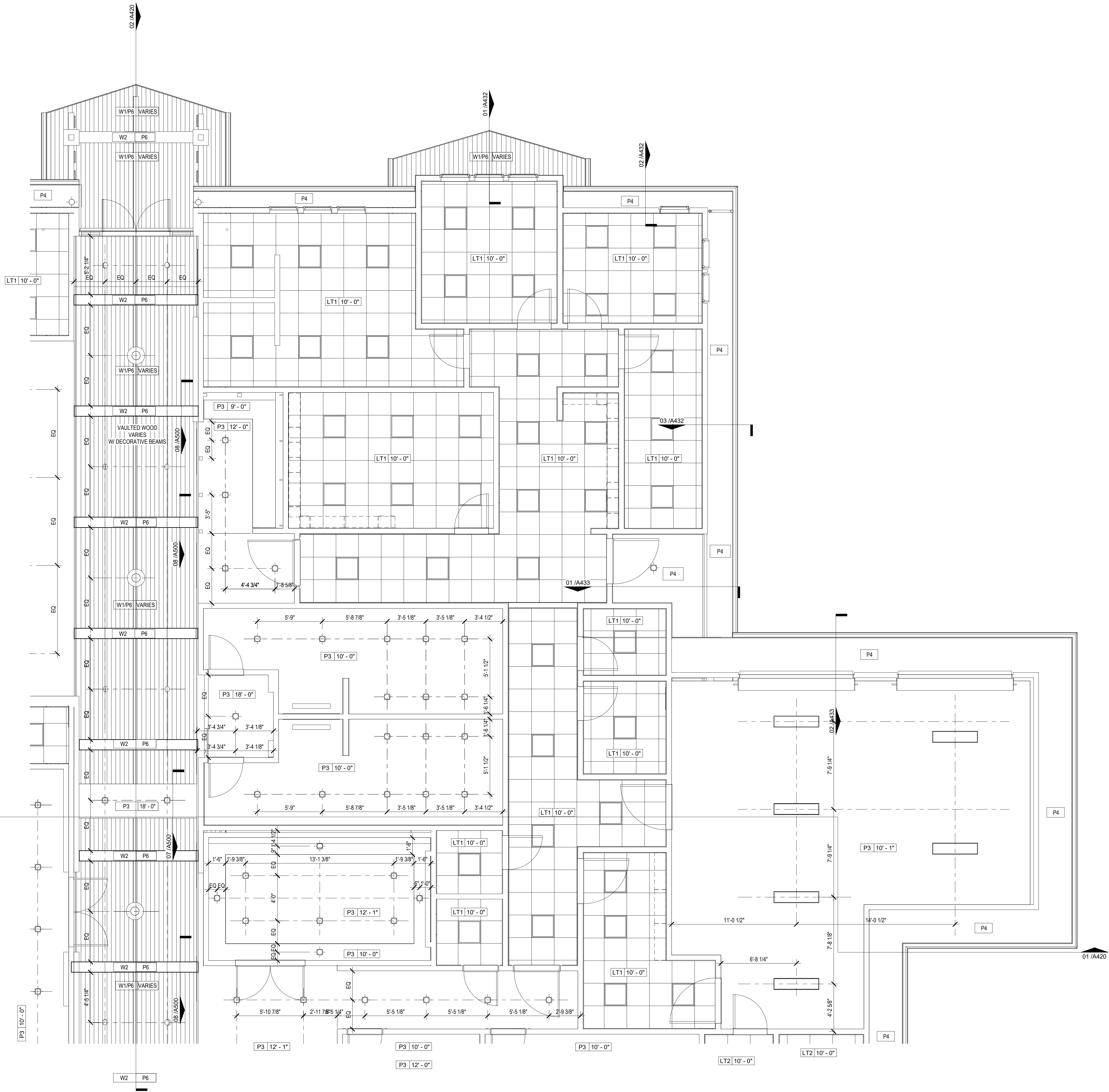
P = PAINT	SC = SEALED CONCRETE
T = TILE	VCT = VINYL FLOORING
CPT = CARPET	LT = LAY-IN CEILING
RR = RUBBER BASE	W = WOOD



QUADRANT KEY PLAN

01 Enlarged RCP - Quadrant C

1/4" = 1'-0"



01 Enlarged RCP - Quadrant C
1/4" = 1'-0"

Key Notes

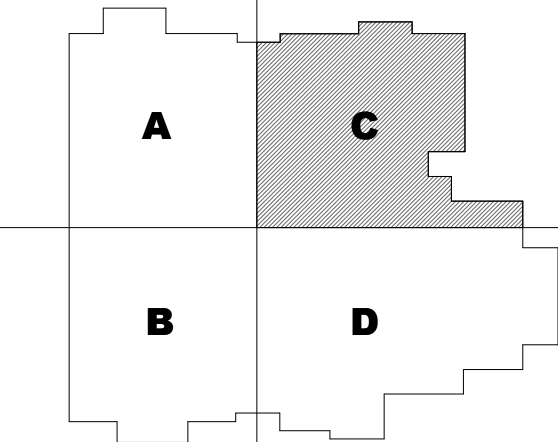
- 3.4 CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
- 3.5 5' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.6 4' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.8 EDGE OF FOUNDATION. PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLATWORK.
- 3.9 CONCRETE FLATWORK W/ EXPOSED AGGREGATE FINISH. REFERENCE CIVIL. PROVIDE SAWN JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
- 3.10 CONCRETE FOUNDATION W/ EXPOSED AGGREGATE FINISH. REF. STRUCTURAL.
- 3.11 CONCRETE FLATWORK W/ ROOM FINISH REF. CIVIL.
- 3.12 PROVIDE CONCRETE EXPANSION JOINT.
- 6.6 LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN.
- 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP REF. A010.
- 9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13A010.
- 9.1 MIRROR AT LAV. REF. SHEET A010.
- 9.4 SCLUTER EDGE TRIM.
- 10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
- 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
- 10.2 FLOOR SPACE FOR TABLE BY OWNER.
- 10.4 BOLLARD REF. DETAIL 01A033.
- 10.5 KNOX BOX REF. MATERIAL SCHEDULE.
- 10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE-BCS1.
- 10.11 WIRELESS INTERNET AND SERVER.
- 11.0 SLOT DIFFUSER.
- 11.7 REFRIGERATOR REF. MATERIAL SCHEDULE.
- 13.0 INSTALL SOUND ATTENUATION INSULATION REF. MATERIAL SCHED - INS3.
- 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FEC1 MATERIALS SCHEDULE.
- 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.1 ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
- 22.2 ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER IAS REQUIREMENTS. REF. ACCESS. DETAILS.
- 22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.5 MOP SINK REF. PLUMBING DRAWINGS.

LIGHTING FIXTURES
REFERENCE FIXTURE SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION

	2 X 2 TROFFER
	CHANDELIER
	1 X 2 LINEAR BOX
	RECESSED CAN
	RECESSED COLORED
	SCONCE
	STEP LIGHT
	UPLIGHT
	LINEAR UPLIGHT

FINISH TYPES
REFERENCE MATERIAL SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION

P = PAINT	SC = SEALED CONCRETE
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CPT = CARPET	LT = LAY-IN CEILING
RB = RUBBER BASE	W = WOOD



QUADRANT KEY PLAN



Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78641

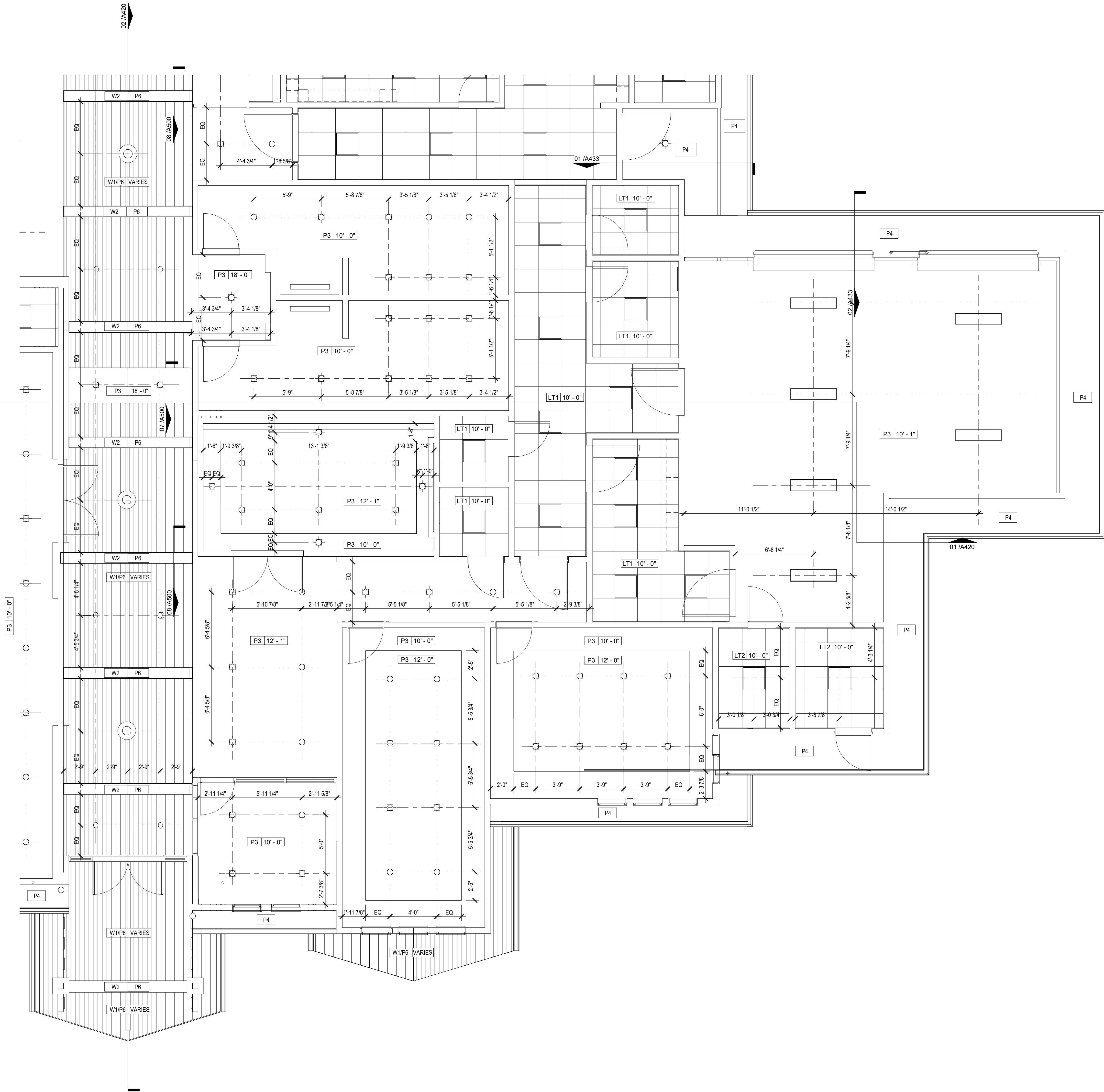
N-VIZION
FORMS - ENVIRONMENTS - IMAGES

Enlarged RCP - Quadrant C

Project Number: 220502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration Nos.: TX PE Firm F-1223, TX 25489, LA 6413 MI;
1301069591, NV 6252, NC: 14883, OH: ARC-1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev 1 Permit Set

A222



01 Enlarged RCP - Quadrant D
1/4" = 1'-0"

Key Notes4

- 3.4 CMU BENCH. REF. MATERIALS SCHEDULE AND DETAILS.
- 3.5 5' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.6 4' TALL CMU WALL WITH TILE FINISH ELEVATIONS, DETAILS, & MATERIAL SCHEDULE.
- 3.8 EDGE OF FOUNDATION. PROVIDE EXPANSION JOINT BETWEEN FOUNDATION AND FLATWORK.
- 3.9 CONCRETE FLATWORK W/ EXPOSED AGGREGATE FINISH. REFERENCE CIVIL. PROVIDE SAWCUT JOINTS AND EXPANSION JOINTS AS SHOWN ON PLANS.
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- 3.12 PROVIDE CONCRETE EXPANSION JOINT.
- 6.6 LOAD-BEARING WALL FOR CENTER CORRIDOR. REFERENCE STRUCTURAL - IDENTIFIED BY GRAY HATCH ON PLAN.
- 8.0 ACCESSIBLE THRESHOLD 1/4" MAX. DROP. REF. A010.
- 9.0 FLOORING TRANSITION TO BE LESS THAN 1/4" IF SQUARE OR LESS THAN 1/2" IF BEVELED. REF. ACCESSIBILITY DETAIL 13A010.
- 9.1 MIRROR AT LAV. REF. SHEET A010.
- 9.4 SCHLUTER EDGE TRIM.
- 10.0 SOAP DISPENSER. REF. MATERIALS SCHED.
- 10.1 COAT HOOK @ 48" A.F.F. PROVIDE BLOCKING. REF. MATERIAL SCHED.
- 10.2 FLOOR SPACE FOR TABLE BY OWNER.
- 10.4 BOLLARD REF. DETAIL 01A503.
- 10.5 KNOX BOX REF. MATERIAL SCHEDULE.
- 10.10 BABY CHANGING STATION. REF. MATERIALS SCHEDULE - BCS1.
- 10.11 WIRELESS INTERNET AND SERVER.
- 11.0 SLOT DIFFUSER.
- 11.7 REFRIGERATOR REF. MATERIAL SCHEDULE.
- 13.0 INSTALL SOUND ATTENUATION INSULATION REF. MATERIAL SCHED - INS3.
- 21.0 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET - FE01 MATERIALS SCHEDULE.
- 22.0 ACCESSIBLE TOILET STALL. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.1 ACCESSIBLE LAV. REF. DETAILS & PROVIDE INSULATING SLEEVE OVER PLUMBING.
- 22.2 ACCESSIBLE URINAL. PROVIDE BLOCKING. PROVIDE ACCESS. URINAL WHERE SHOWN ON PLAN. INSTALL PER TAS REQUIREMENTS. REF. ACCESS. DETAILS.
- 22.4 ACCESSIBLE TOILET ROOM. PROVIDE ACCESSIBLE WATER CLOSET AND GRAB BARS TO CODE. REF. ACCESSIBILITY DETAILS. PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS.
- 22.5 MOP SINK REF. PLUMBING DRAWINGS.

LIGHTING FIXTURES

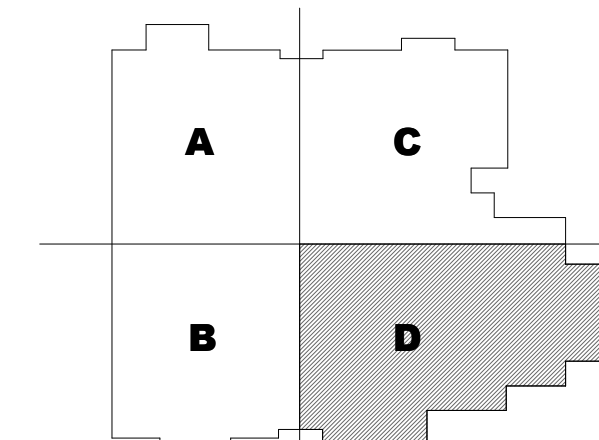
REFERENCE FIXTURE SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION

	2 X 2 TROFFER
	CHANDELIER
	1 X 2 LINEAR BOX
	RECESSED CAN
	RECESSED COLORED
	SCONCE
	STEP LIGHT
	UPLIGHT
	LINEAR UPLIGHT

FINISH TYPES

REFERENCE MATERIAL SCHEDULE FOR MANUFACTURER AND PRODUCT DESCRIPTION

P = PAINT	SC = SEALED CONCRETE
T = TILE	VCT = VINYL FLOORING
CPT = CARPET	LT = LAY-IN CEILING
RB = RUBBER BASE	W = WOOD



QUADRANT KEY PLAN



Weed Corley Fish
301 S. Bagdad Rd.
Lander, TX 79841

N-VIZION
FORMS - ENVIRONMENTS - IMAGES

Enlarged RCP - Quadrant D
Project Number: 220502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration Nos.: TX PE Firm F-12223, TX-25489, LA, 6413 MI;
1301069591, NV-6252, NC: 14883, OH-ARC-1917785

Date:	Description:
06/07/24	CD Set
10/25/24	Rev1 Permit Set

A223



04/09/25

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N-VIZION DESIGN, LLC is not responsible for the design or construction of any project unless it is specifically stated in the contract documents.
N-VIZION DESIGN, LLC is not responsible for the design or construction of any project unless it is specifically stated in the contract documents.

Weed Corley Fish
301 S. Flagstad Rd.
Leander, TX 78641

N-VIZION
FORMS - ENVIRONMENTS - IMAGES

Materials Schedule

Project Number: 230502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-1223, TX-25488, L.A. 9413 M.
1301069591, NV-9252, NC: 14883, OH-ARC-1917885

Date:	Description:
06/07/24	CD Set
08/09/24	Rev 1
08/09/25	Rev 2 City Comments

A300

MATERIAL, FINISH AND EQUIPMENT SCHEDULE						
DIVISION	ITEM	ID	MANUFACTURER	PRODUCT	FINISH/COLOR	DESCRIPTION
03 CONCRETE						
04 MASONRY						
	TILE MORTAR BED	MB1	LATICRETE	3701 FORTIFIED MORTAR BED		INSTALL PER MANUFACTURER'S RECOMMENDATIONS - 1/2" THICKNESS - CONSULT ARCHITECT IF THICKNESS NEEDS TO VARY BASED ON FIELD CONDITIONS.
	SPLIT FACE CMU	CMU1	OLDCASTLE	SPLIT FACE CMU	WHITE LIMESTONE	INTALL IN RUNNING BOND PATTERN PER MANUFACTURER'S RECOMMENDATIONS
05 METALS						
	2X2 STEEL FRAME W/ CORRUGATED PANEL	CM1	D-MAC	1.5" B - DECK		
06 WOOD AND PLASTICS						
	BLOCKING	BL1		2X6 SYP #3		INSTALL AT ALL GRAB BARS AND WALL MOUNTED DEVICES.
	WOOD T&G (CEILINGS & SOFFITS)	W1		1X8 WHITE OAK FLUSH JOINT T&G	P6 WITH CLEAR MATTE SEALER	STAGGER BOARDS ON INSTALL
	WOOD BEAM WRAPS	W2		1X WHITE OAK	P6 WITH CLEAR MATTE SEALER	SIZE BOARDS TO FULLY COVER BEAM OR TO MINIMIZE THE NUMBER OF BOARDS NEED PER FACE
	WOOD STUDS	ST1	STUDS			PER. STRUCT. DWGS STUDS TO BE SPACED @ 16" O.C.
07 THERMAL MOISTURE						
	WALL CAVITY INSULATION	INS1	OWENS CORNING	R19 UNFACED INSULATION		INSTALL AT ALL WALLS TO BE INSULATED ON PLANS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	ROOF INSULATION	INS2	JOHNS MANVILLE	JM CORBOND III - CLOSED CELL		INSTALL PER MANUFACTURER'S RECOMMENDATIONS FOR A TOTAL OF R-49 UNDER THE ROOF DECK
	ACOUSTIC INSULATION	INS3	OWENS CORNING	QUIETZONE UNFACED BATTS		INSTALL IN INTERIOR WALLS AND ABOVE CEILINGS - REFERENCE ROOM FINISH SCHEDULE AND PLANS FOR LOCATIONS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	STANDING SEAM ROOFING	R1	MCLEROY	MAXIMA - 2" SEAM - 18" WIDE PANEL	MATTE BLACK	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
	WATER RESISTIVE BARRIER	WRB1	LATICRETE	HYDRO BAN 9255-0401-2		INSTALL PER MANUFACTURER'S RECOMMENDATIONS AT ALL EXTERIOR WALLS W/ TILE VENEER
	GYPSUM WALL BOARD	GB1	USG	5/8" SHEETROCK BRAND		INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE LEVEL 5 FINISH AT ALL WALLS EXCEPT STORAGE, MECHANICAL, ELECTRICAL OR JANITOR
	WATER RESIST. GYP. WALL BD.	GB2	USG	5/8" FIBEROCK BRAND AQUA - TOUGH		INSTALL AT PAINTED WET WALLS. PROVIDE LEVEL 5 FINISH AT ALL WALLS EXCEPT STORAGE, MECHANICAL, ELECTRICAL OR JANITOR.
	CEMENTITIOUS BACKER BOARD	CB1	USG	5/8" DUROCK CEMENT BOARD WITH EDGE GUARD		
	FIBER CEMENT SOFFIT PANEL	S01	JAMES HARDIE	NON VENTED SMOOTH	MIDNIGHT BLACK	
08 OPENINGS						
	STOREFRONT - EXTERIOR FRAMES	SF1	OLDCASTLE	SERIES 3000 THERMAL MULTIPANE	BLACK ANODIZED	INSTALL PER MANUF. REQUIREMENTS. REF. MANUF PROVIDED DRAWINGS. MAX GLASS U-VALUE = .50 MAX. SHGC = .25
	STOREFRONT - INTERIOR FRAMES	SF2	OLDCASTLE	SERIES FG2000	BLACK ANODIZED	1/4" CLEAR GLASS. PROVIDE SAFETY GLASS AS REQ'D. REF. WINDOW SCHED. & ELEVATIONS FOR LAYOUT
	STOREFRONT - EXTERIOR DOOR	SF3	OLDCASTLE	SERIES AD-375 THERMAL DOOR & FRAME, MEDIUM STILE	BLACK ANODIZED	
	STOREFRONT - CAULK	CA1	DOW CORNING	CELROY	BLACK	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	GLAZING - EXTERIOR STOREFRONT	GZ1	PPG	1" INSULATED LOW E	JOHNS	MAX GLASS U-VALUE = 0.5 MAX. SHGC = 0.25, PROVIDE TEMPERED GLASS WHERE INDICATED. SEE WINDOW ELEVATIONS
	GLAZING - INTERIOR STOREFRONT	GZ2	PPG	1/4" GLASS	CLEAR	PROVIDE SAFETY GLASS AS REQ'D. REF. WINDOW SCHED. & ELEVATIONS FOR LAYOUT
	GLASS BRACKET AT COFFEE BAR	GB1	CRL	Z-SERIES SQUARE TYPE FLAT BASE STAINLESS CLAMP - Z934MBL	MATTE BLACK	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	DOOR - EXTERIOR STEEL PANEL	DR1	TAYLOR	CAMBRIDGE 5-PANEL HORIZONTAL DOOR	P5	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	DOOR - EXTERIOR STEEL FLUSH	DR2	DEANSTEEL	SP SERIES FLUSH	P5	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	DOOR - INTERIOR WOOD PANEL	DR3	KARONA	K3050 - 5 RAISED PANELS	P2	WOOD SPECIES (TDBD), 5 RAISED-PANELS. REF. DOOR SCHED. & DOOR TYPES
	DOOR - INTERIOR SOLID CORE WOOD	DR4	MOHAWK	SOLUTION II	L1	SOLID CORE. FLAT PANEL WITH PLASTIC LAMINATE VENEER - REF. DOOR SCHED.
	OVERHEAD DOOR	OH01	OVERHEAD DOOR CORP.	MODEL 620 - 10'WX8'H	WHITE	STORMTITE ROLLING SERVICE - MOTORIZED
09 FINISHES						
	CONC. SEALER	SC1	SIKA SCOFIELD	CURESEAL-W		APPLY IN ACCORDANCE WITH MANUF. RECOMMENDATIONS
	VCT	VCT	ARMSTRONG	STANDARD EXCELRON IMPERIAL FINISH	51915 CHARCOAL	INSTALL IN STACKED PATTERN. INSTALL PER MANUF RECOMMENDATIONS
	CARPET - PUBLIC AREAS	CPT1	TARKET	AIDA CLOTH	TYPESET 57203 - 18X36	VERTICAL ASHLAR PATTERN
	CARPET - EMPLOYEE AREAS	CPT2	TARKETT	INSPIRED NATURE	TUNDRA FLOWER 11663 - 18X36	VERTICAL ASHLAR PATTERN
	QUARTZ	Q1	CORIAN	QUARTZ	SNOW FLURRY - 2CM	
	QUARTZ	Q2	CORIAN	QUARTZ	COARSE PEPPER LEATHERED - 2CM	
	TILE - EXTERIOR / INTERIOR - LARGE FORMAT STONE	T1	MARAZZI	UNICHE	BIANCO UN10 - MATTE - 24X48	HORIZONTAL ASHLAR - INSTALL PER MANUF RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2595 MINK - 1/8" JOINT
	TILE - EXTERIOR - PLANK STONE	T2	DALTILE	ARTICULO	EDITORIAL WHITE AR06 - MATTE 6X24	INSTALL PER MANUF. RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2595 MINK - 1/8" JOINT
	NOT USED	T3	NOT USED			
	TILE - EXTERIOR / INTERIOR - WOOD PLANK	T4	MARAZZI	MERONA	NATURAL MR41 - 8X48 - MATTE	ASHLAR PATTTERN - INSTALL PER MANUF. RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2566 DESERT KHAKI - 1/8" JOINT
	TILE - INTERIOR FLOOR - LARGE FORMAT STONE	T5	MARAZZI	HISTORIA	HERITAGE GRAY - 24X48 - MATTE	ASHLAR PATTTERN - INSTALL PER MANUF. RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2587 STORMY GREY - 1/8" JOINT
	NOT USED	T6	NOT USED			
	TILE - INTERIOR - WOMEN'S RR - WET WALL	T7	DALTILE	INDOTERRA	WHITE DESERT RECTANGLE IN41 - MATTE 12X24	HORIZONTAL ASHLAR - INSTALL PER MANUF RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2590 LIGHT PEWTER - 1/8" JOINT
	TILE - INTERIOR - WOMEN'S RR - DRY WALL	T8	DALTILE	INDOTERRA	WHITE DESERT RECTANGLE WOVEN IN41 - TEXTURED - 12X24	VERTICAL ASHLAR - INSTALL PER MANUF RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2590 LIGHT PEWTER - 1/8" JOINT
	TILE - INTERIOR - WOMEN'S RR - DRY WALL BASE	T9	DALTILE	INDOTERRA	WHITE DESERT RECTANGLE IN41 - MATTE - 2X9	HORIZONTAL ASHLAR - INSTALL PER MANUF RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2590 LIGHT PEWTER - 1/8" JOINT
	TILE - INTERIOR - MEN'S RR - WET WALL	T10	DALTILE	INDOTERRA	VOLCANIC ASH RECTANGLE IN46 - MATTE 12X24	HORIZONTAL ASHLAR - INSTALL PER MANUF RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2545 RAVEN - 1/8" JOINT
	TILE - INTERIOR - MEN'S RR - DRY WALL	T11	DALTILE	INDOTERRA	VOLCANIC ASH RECTANGLE WOVEN IN46 -TEXTURED- 12X24	VERTICAL ASHLAR - INSTALL PER MANUF RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2545 RAVEN - 1/8" JOINT
	TILE - INTERIOR - MEN'S RR - DRY WALL BASE	T12	DALTILE	INDOTERRA	VOLCANIC ASH RECTANGLE IN46 - MATTE 2X9	HORIZONTAL ASHLAR - INSTALL PER MANUF RECOMMENDATIONS - GROUT LATICRETE PERMACOLOR SELECT 2545 RAVEN - 1/8" JOINT
	TILE INSTALL MORTAR	TM1	LATICRETE	3701 MORTAR ADMIX		INSTALL PER MANUFACTURER'S RECOMMENDATIONS - 3/16" THICKNESS - CONSULT ARCHITECT IF THICKNESS NEEDS TO VARY BASED ON FIELD CONDITIONS.
	EDGE TRIM - INTERIOR WALL TILE WOMEN'S RR	TR1	SCHLUTER	SCHIENE - SIZE PER T7 THICKNESS	COLOR COATED ALUMINUM - IVORY	INSTALL PER MANUF. RECOMMENDATIONS - REF DETAIL ON A500
	EDGE TRIM - INTERIOR WALL TILE MEN'S RR	TR2	SCHLUTER	SCHIENE - SIZE PER T10 THICKNESS	COLOR COATED ALUMINUM - DARK ANTHRACITE	INSTALL PER MANUF. RECOMMENDATIONS - REF DETAIL ON A500
	EDGE TRIM - INTERIOR FLOOR TILE	TR3	SCHLUTER	SCHIENE - SIZE PER T5 THICKNESS	COLOR COATED ALUMINUM - STONE GREY	PROVIDE AT INTERIOR FLOORING TRANSITIONS BETWEEN CHANGES IN TILE COLOR & TRANSITIONS BETWEEN TILE AND OTHER FLOORING MATERIALS.
	EDGE TRIM - RESTROOM WALL TILE	TR4	SCHLUTER	DECO-SG SHADOW GAP - 1/2"	ALUMINUM SATIN	INSTALL BETWEEN TILE BASE AND TILE ABOVE BASE IN WOMEN'S AND MEN'S RR. INSTALL PER MANUF. RECOMMENDATIONS.
	THRESHOLD - EXTERIOR DOORS AT TILE FLOOR	TR5	PEMCO	255 HALF SADDLE - 5" WIDE X 1/2" HIGH	MILL FINISH ALUMINUM	INSTALL PER MANUF. RECOMMENDATIONS AT EXTERIOR DOOR THRESHOLDS ADJACENT TO TILE FLOORS
	THRESHOLD - EXTERIOR DOORS AT VCT FLOOR	TR6	PEMCO	271 SADDLE THRESHOLD - 5" WIDE X 1/4" HIGH	MILL FINISH ALUMINUM	INSTALL PER MANUF. RECOMMENDATIONS AT EXTERIOR DOOR THRESHOLDS ADJACENT TO VCT FLOORS
	PLASTIC LAMINATE - COFFEE BAR	PL1	FORMICA	WHITE ASH - 8841	WOODBUSH FINISH	
	PLASTIC LAMINATE - BACK OF HOUSE DOORS & CABINETS	PL2	FORMICA	ASHWOOD BEIGE - 5785	NATURAL GRAIN FINISH	
	PLASTIC LAMINATE - BACK OF HOUSE COUNTERTOPS	PL3	FORMICA	WHITE SHALESTONE - 9525	MATTE FINISH	
	WALL BASE MOULDING - AT TILE	WB1		1X6 HARDWOOD - FLAT PROFILE	PRIMED FOR PAINT	REFERENCE INTERIOR ELEVATIONS FOR PAINT COLOR
	WALL BASE MOULDING - AT VCT1	RB1	JOHNSONITE	TRADITIONAL WALL BASE - 4"	TAB6 - BEDROCK CG - COLORMATCH	
	WALL BASE MOULDING - AT CPT2	RB2	JOHNSONITE	TRADITIONAL WALL BASE - 4"	63 - BURNT UMBER B - COLORMATCH	

Orley Fish
301 S. Bagdad Rd.
Leander, TX 78641

N-VIZION

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A301

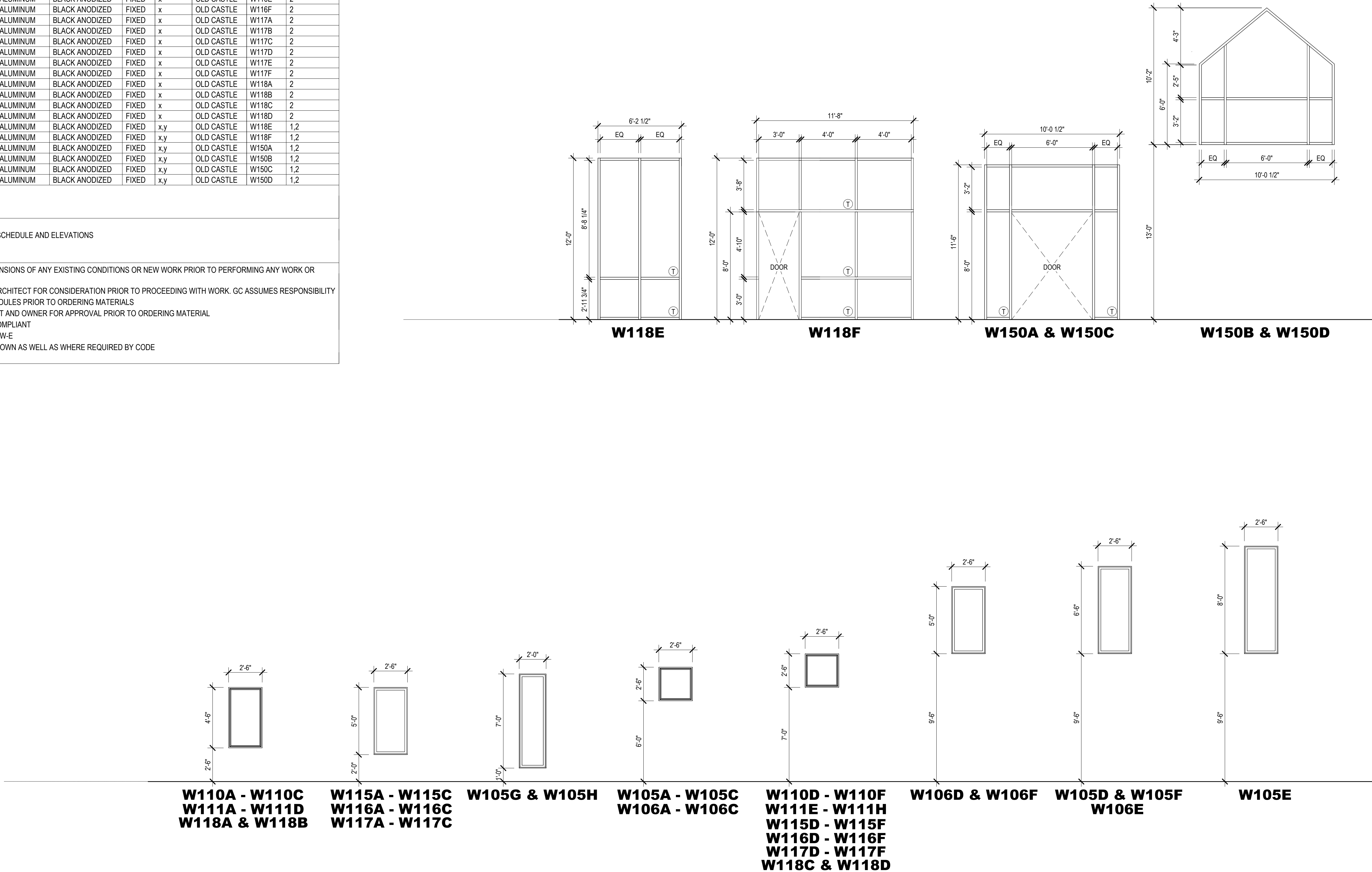
DIVISION	ITEM	ID	MANUFACTURER	PRODUCT	FINISH/COLOR	DESCRIPTION
09 FINISHES	PAINT - INTERIOR WALL	P1	SHERWIN WILLIAMS	PROMAR 200	SW7627 WHITE HERON - FLAT	APPLY IN ACCORDANCE WITH MANUF. SPEC. PROVIDE SAMPLE MOCK-UP FOR APPROVAL PRIOR TO PAINTING ENTIRE JOB.
	PAINT - INTERIOR DOORS & TRIM	P2	SHERWIN WILLIAMS	PROMAR 200	SW9165 GOSSAMER VEIL - SEMI-GLOSS	APPLY IN ACCORDANCE WITH MANUF. SPEC. PROVIDE SAMPLE MOCK-UP FOR APPROVAL PRIOR TO PAINTING ENTIRE JOB.
	PAINT - INTERIOR CEILINGS	P3	SHERWIN WILLIAMS	PROMAR 200	SW7757 HIGH REFLECTIVE WHITE - FLAT	APPLY IN ACCORDANCE WITH MANUF. SPEC. PROVIDE SAMPLE MOCK-UP FOR APPROVAL PRIOR TO PAINTING ENTIRE JOB.
	PAINT - EXTERIOR TRIM	P4	SHERWIN WILLIAMS	DURATION EXTERIOR ACRYLIC LATEX	SW6258 TRICORN BLACK - SATIN	APPLY IN ACCORDANCE WITH MANUF. SPEC. PROVIDE SAMPLE MOCK-UP FOR APPROVAL PRIOR TO PAINTING ENTIRE JOB.
	PAINT - EXTERIOR DOORS & FRAMES	P5	SHERWIN WILLIAMS	DURATION EXTERIOR ACRYLIC LATEX	SW9166 DRIFT OF MIST - SEMI-GLOSS	APPLY IN ACCORDANCE WITH MANUF. SPEC. PROVIDE SAMPLE MOCK-UP FOR APPROVAL PRIOR TO PAINTING ENTIRE JOB.
	PAINT - EXTERIOR - WOOD STAIN	P6	SHERWIN WILLIAMS	POLYURETHANE SEMI-TRANSPARENT - CLEAR MATTE SEALER	WOOD W1 & W2 TO MATCH COLOR OF TILE 4	APPLY IN ACCORDANCE WITH MANUF. SPEC. PROVIDE SAMPLE MOCK-UP FOR APPROVAL PRIOR TO PAINTING ENTIRE JOB.
	FRP	FRP1	MARLITE	STANDARD FRP. S100G	SMOOTH WHITE	PROVIDE SEALANT AS NECESSARY FOR WET AREAS.
	ACCOUSTICAL CLG TILE - CONDITIONED SPACES	LT1	USG	RADAR - 2220 - SHADOWLINE TAPERED	WHITE	INSTALL PER MANUFACTURER SPECS.
	ACCOUSTICAL CLG TILE- UNCONDITIONED SPACES	LT2	USG	RADAR - 2210 - SQUARE EDGE	WHITE	INSTALL PER MANUFACTURER SPECS.
	ACCOUSTICAL CLG GRID	LG1	USG	DXL 151/6 GRID SYSTEM	WHITE	INSTALL PER MANUFACTURER SPECS.
10 SPECIALTIES	TOILET PARTITIONS	TP1	SCRANTON PRODUCTS	HINY HIDERS	BRONZE HAMMERED	FLOOR-MOUNTED, OVERHEAD BRACED PARTITIONS.
	GRAB BARS	GB1	BRADLEY	SERIES 812 CONCEALED MOUNTING	SATIN STAINLESS	PROVIDE BLOCKING IN WALL. INSTALL PER MANUF. SPECS.
	TOILET PAPER DISPENSERS	TPD1	MOEN	LINDOR SPOT RESISTANT PIVOTING PAPER HOLDER	BRUSHED NICKEL - MY87088N	MOUNT TWO DISPENSERS SIDE BY SIDE IN EACH STALL. PROVIDE BLOCKING.
	SANITARY NAPKIN DISPOSAL	SN1	BOBRICK	PARTITION-MOUNTED SAN. NAPKIN DISPOSAL B-354	SATIN FINISH STAINLESS	INSTALL PER MANUF. RECOMMENDATIONS. REFERENCE PLAN FOR LOCATIONS.
	BABY CHANGING STATION	BCS1	FOUNDATIONS	WALL MOUNTED 5410339 - FRAMELESS HORIZONTAL	STAINLESS STEEL	PROVIDE BLOCKING IN WALL. INSTALL PER MANUF. SPECS.
	MIRROR	MI1	BOBRICK	B-2902436		PROVIDE BLOCKING IN WALL. INSTALL PER MANUF. SPECS.
13 SPECIAL CONST.						
21 FIRE SUPPRESSION	SPRINKLER SYSTEM					REF SPRINKLER CONTRACTOR PLANS
	KNOXBOX	KB1	THE KNOX COMPANY	KNOXBOX 3200 - RECESS MOUNT	BLACK	INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND CITY OF LEANDER FIRE DEPT REQUIREMENTS
	FIRE EXTINGUISHER CABINET - SEMI-RECESSED	FE C1	JL INDUSTRIES	EMBASSY SERIES - TRIMLESS - CONCEALED PULL	PAINTED STEEL - P1	INSTALL PER MANUF. RECOMMENDATIONS. SEE LIFE SAFETY PLAN FOR LOCATIONS
	FIRE EXTINGUISHER CABINET - SURFACE MOUNT	FE C2	JL INDUSTRIES	SCHOOL SERIES - VERTICAL DUO PANEL	WHITE POWDER COAT	INSTALL PER MANUF. RECOMMENDATIONS. SEE LIFE SAFETY PLAN FOR LOCATIONS
22 PLUMBING	REFERENCE MEP DRAWINGS					
23 MECHANICAL	REFERENCE MECHANICAL DRAWINGS					
24 ELECTRICAL	REFERENCE ELECTRICAL DRAWINGS					

1 OWNER AND CONTRACTOR TO VERIFY ALL SCHEDULES PRIOR TO ORDERING MATERIALS AND CONSTRUCTION
2 ALL HARDWARE AND THRESHOLDS TO BE T&S COMPLIANT
3 GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF NEW WORK PRIOR TO PERFORMING ANY WORK OR ORDERING ANY MATERIALS. ANY DISCREPANCIES SHALL BE REPORTED TO ARCHITECT
4 FOR CONSIDERATION PRIOR TO PROCEEDING WITH WORK. GC ASSUMES RESPONSIBILITY FOR UNREPORTED DISCREPANCIES.
5 ALTERNATIVES REQUIRE SUBMITTAL TO ARCHITECT AND OWNER FOR APPROVAL PRIOR TO ORDERING MATERIAL
6 CONTRACTOR TO VERIFY PROPER USE AND INSTALLATION OF MATERIALS WITH MANUFACTURER PRIOR TO CONSTRUCTION.
7 WHERE NO MATERIALS ARE SPECIFIED, CONSULT ARCHITECT AND OWNER PRIOR TO CONSTRUCTION.
8 ALL PRODUCTS INSTALLED PER MANUF. REQUIREMENTS

ROOM FINISH SCHEDULE																
RM#	ROOM NAME	FLOOR	BASE			WALL		CEILING				ACOUSTIC	RM#	REMARKS		
			CARPET	TILE	VCT	SEALED CONCRETE	RUBBER	VINYL	TILE	WOOD	NONE	GYP/SM BOARD	PANT	TILE	FRP	LAY-IN CLG
										GYP BOARD	PANT	WOOD	CEILING HT.			
100	LOUNGE												12'	100	4,5	
101	LOUNGE												12'	101	4,5	
105	PREMIER VENUE												VARIES	105	6	
106	STANDARD VENUE												VARIES	106	1,4,5,6	
107	BASIC VENUE												VARIES	107	1,4,5,6	
110	ARRANGEMENT												VARIES	110	1,4,5,6	
111	ARRANGEMENT												VARIES	111	1,6	
115	OFFICE												10'	115	1,6	
116	OFFICE												10'	116	1,6	
117	OFFICE												10'	117	1,6	
118	OFFICE												10'	118	1,6	
120	BREAK ROOM												10'	119		
122	JANITOR												10'	120		
123	ELECTRICAL												10'	121		
124	SPRINKLER												10'	122		
125	AV												10'	123		
126	MECHANICAL YARD												N/A	124		
130	DRESSING												10'	130		
135	MENS R.R.												10'	135	1,2,4,5,6	
136	WOMENS R.R.												10'	136	1,2,4,5,6	
137	UNISEX R.R.												10'	137	1,2,3,4,5,6	
140	STORAGE												10'	140		
141	STORAGE												10'	141		
142	STORAGE												10'	142		
143	STORAGE												10'	143		
144	STORAGE												10'	144		
150	CORRIDOR												10'	150	4,5	
151	CORRIDOR												12'	151		
152	CORRIDOR												10'	152		
153	CORRIDOR												10'	153		
154	CORRIDOR												12'	154	4,5	
160	COFFEE												VARIES	160	6	
165	GARAGE												10'	165		
REMARKS:																
1 PROVIDE SOUND ATTENUATION INSULATION IN SURROUNDING WALLS																
2 PROVIDE SOUND ATTENUATION INSULATION IN PLUMBING WALLS																
3 PROVIDE WATER RESISTANT GYP. BOARD AT DAMP WALLS AND PAINTED WET WALLS																
4 PROVIDE CEMENTITIOUS BACKER BOARD ON ALL WALLS WITH TILE																
5 REFER TO FINISH PLANS AND REFLECTED CEILING PLANS FOR ROOMS WITH MULTIPLE FINISHES																
6 INSTALL ACOUSTIC INSULATION IN INTERIOR WALLS AND ABOVE CEILING - REFERENCE MATERIALS SCHEDULE INS3																
NOTES:																
1 REFERENCE FIRE DETAILS AND FIRE, SHEET A020, FOR ADDITIONAL FIRE RATING INFORMATION																
2 ALL FLOORING TRANSITIONS AND THRESHOLDS TO BE ACCESSIBLE REF. FLOOR FINISH PLAN AND ACCESSIBILITY DETAILS.																
3 OWNER AND CONTRACTOR TO VERIFY ALL SCHEDULES PRIOR TO ORDERING MATERIALS AND STARTING CONSTRUCTION																
4 GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO PERFORMING ANY WORK OR ORDERING ANY MATERIALS. ANY DISCREPANCIES SHALL BE REPORTED TO ARCHITECT FOR CONSIDERATION PRIOR TO PROCEEDING WITH WORK. GC ASSUMES RESPONSIBILITY FOR UNREPORTED DISCREPANCIES																
5 ALTERNATES REQUIRE SUBMITTAL TO ARCHITECT AND OWNER FOR APPROVAL PRIOR TO ORDERING MATERIAL																
6 ALL GYP. BOARD CORNERS TO BE FINISHED SQUARE																

DOOR SCHEDULE														
NO	ROOM	SOURCE	DOOR		FINISH	FRAME		HRDWR	MANUF.		NO	REMARKS		
			SIZE	TYPE MATERIAL		MATERIAL	FINISH		DOOR	FRAME				
D105A	PREMIER VENUE	NEW	(2) 3'-0" x 8'-0"	D STEEL	PAINT	STEEL	PAINT	HW2	TAYLOR	TAYLOR	D105A	3,5		
D105B	PREMIER VENUE	NEW	(2) 3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW6	KARONA	KARONA	D105B			
D105C	PREMIER VENUE	NEW	(2) 3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW6	KARONA	KARONA	D105C			
D106A	STANDARD VENUE	NEW	(2) 3'-0" x 8'-0"	D STEEL	PAINT	STEEL	PAINT	HW2	TAYLOR	TAYLOR	D106A	3,5		
D106B	STANDARD VENUE	NEW	3'-0" x 8'-0"	D STEEL	PAINT	STEEL	PAINT	HW2.1	TAYLOR	TAYLOR	D106B	3,5		
D106C	STANDARD VENUE	NEW	(2) 3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW6	KARONA	KARONA	D106C			
D107	BASIC VENUE	NEW	(2) 3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW6	KARONA	KARONA	D107			
D110	ARRANGEMENT	NEW	3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW7	KARONA	KARONA	D110			
D111	ARRANGEMENT	NEW	3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW7	KARONA	KARONA	D111			
D115	OFFICE	NEW	3'-0" x 7'-0"	B WOOD	P-LAMINATE	ALUMINUM	BLACK ANODIZED	HW10	MOHAWK	RACO	D115			
D116	OFFICE	NEW	3'-0" x 7'-0"	B WOOD	P-LAMINATE	ALUMINUM	BLACK ANODIZED	HW10	MOHAWK	RACO	D116			
D117	OFFICE	NEW	3'-0" x 7'-0"	B WOOD	P-LAMINATE	ALUMINUM	BLACK ANODIZED	HW10	MOHAWK	RACO	D117			
D118	OFFICE	NEW	3'-0" x 8'-0"	A ALUMINUM	BLACK ANODIZED	ALUMINUM	BLACK ANODIZED	HW4	OLD CASTLE	OLD CASTLE	D118	1,2,4		
D120	BREAK	NEW	3'-0" x 7'-0"	B WOOD	P-LAMINATE	ALUMINUM	BLACK ANODIZED	HW7	MOHAWK	RACO	D120			
D122	JANITOR	NEW	3'-0" x 7'-0"	B WOOD	P-LAMINATE	ALUMINUM	BLACK ANODIZED	HW7	MOHAWK	RACO	D122			
D123	ELECTRICAL	NEW	3'-0" x 7'-0"	B STEEL	PAINT	STEEL	PAINT	HW3	DEANSTEEL	DEANSTEEL	D123	3,5		
D124	SPRINKLER	NEW	3'-0" x 7'-0"	B STEEL	PAINT	STEEL	PAINT	HW3	DEANSTEEL	DEANSTEEL	D124	3,5		
D125	AV	NEW	3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW7	KARONA	KARONA	D125			
D130A	DRESSING	NEW	4'-0" x 7'-0"	B WOOD	P-LAMINATE	ALUMINUM	BLACK ANODIZED	HW9	MOHAWK	RACO	D130A			
D130B	DRESSING	NEW	4'-0" x 7'-0"	B STEEL	PAINT	STEEL	PAINT	HW5	DEANSTEEL	DEANSTEEL	D130B	3,5		
D135	MENS RESTROOM	NEW	3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW6	KARONA	KARONA	D135B			
D136	WOMENS RESTROOM	NEW	3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW6	KARONA	KARONA	D136			
D137	UNISEX RESTROOM	NEW	3'-0" x 7'-0"	B WOOD	P-LAMINATE	ALUMINUM	BLACK ANODIZED	HW8	MOHAWK	RACO	D137			
D140	STORAGE	NEW	3'-0" x 7'-0"	B WOOD	P-LAMINATE	ALUMINUM	BLACK ANODIZED	HW7	MOHAWK	RACO	D140			
D141	STORAGE	NEW	3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW7	KARONA	KARONA	D141			
D142	STORAGE	NEW	(2) 3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW7	KARONA	KARONA	D142			
D143	STORAGE	NEW	(2) 3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW7	KARONA	KARONA	D143			
D144	STORAGE	NEW	3'-0" X 7'-0"	B WOOD	P-LAMINATE	ALUMINUM	BLACK ANODIZED	HW7	MOHAWK	RACO	D144			
D150A	CORRIDOR	NEW	(2) 3'-0" x 8'-0"	A ALUMINUM	BLACK ANODIZED	ALUMINUM	BLACK ANODIZED	HW7	OLD CASTLE	OLD CASTLE	D150A	1,2,3		
D150B	CORRIDOR	NEW	(2) 3'-0" x 8'-0"	A ALUMINUM	BLACK ANODIZED	ALUMINUM	BLACK ANODIZED	HW7	OLD CASTLE	OLD CASTLE	D150B	1,2,3		
D151A	CORRIDOR	NEW	(2) 3'-0" x 8'-0"	D STEEL	PAINT	STEEL	PAINT	HW2	TAYLOR	TAYLOR	D151A	3,5		
D151B	CORRIDOR	NEW	(2) 3'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW6	KARONA	KARONA	D151B			
D152A	CORRIDOR	NEW	4'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW9	KARONA	KARONA	D152A			
D152B	CORRIDOR	NEW	4'-0" x 8'-0"	B STEEL	PAINT	STEEL	PAINT	HW3	TAYLOR	TAYLOR	D152B	3,5		
D153	CORRIDOR	NEW	4'-0" x 8'-0"	B STEEL	PAINT	STEEL	PAINT	HW3	TAYLOR	TAYLOR	D153	3,5		
D154	CORRIDOR	NEW	4'-0" x 8'-0"	D WOOD	PAINT	WOOD	PAINT	HW9	KARONA	KARONA	D154			
D165A	GARAGE	NEW	3'-0" X 7'-0"	B STEEL	PAINT	STEEL	PAINT	HW3	DEANSTEEL	DEANSTEEL	D165A	3,5		
D165B	GARAGE	NEW	8'-0" x 10'-0"	C STEEL	PAINT	STEEL	PAINT	N/A	OVERHD DR CO	OVERHD DR CO	D165B	3,5		
D165C	GARAGE	NEW	8'-0" x 10'-0"	C STEEL	PAINT	STEEL	PAINT	N/A	OVERHD DR CO	OVERHD DR CO	D165C	3,5		
REMARKS:														
1	ALL GLAZING IN DOORS TO BE TEMPERED SAFETY GLASS													
2	REF. WINDOW SCHEDULE AND INTERIOR ELEVATIONS FOR ATTACHED TRANSOM AND SIDELITE													
3	INSULATED DOOR FOR EXTERIOR DOORS													
4	STOREFRONT DOORS - U-VALUE=0.60, SHGC=0.33													
5	METAL DOOR U-VALUE=0.60													
NOTES:														
1	GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF ANY EXISTING CONDITIONS OR NEW WORK PRIOR TO PERFORMING ANY WORK OR ORDERING ANY MATERIALS.													
	ANY DISCREPANCIES SHALL BE REPORTED TO ARCHITECT FOR CONSIDERATION PRIOR TO PROCEEDING WITH WORK. GC ASSUMES RESPONSIBILITY													
	FOR UNREPORTED DISCREPANCIES.													
2	OWNER AND CONTRACTOR TO VERIFY ALL SCHEDULES PRIOR TO ORDERING MATERIALS													
3	ALTERNATES REQUIRE SUBMITTAL TO ARCHITECT AND OWNER FOR APPROVAL PRIOR TO ORDERING MATERIAL													
4	ALL HARDWARE AND THRESHOLDS TO BE TAS COMPLIANT													
5	REFERENCE DETAILS FOR ADDITIONAL FIRE RATING INFORMATION													
6	REFERENCE DETAILS AND SECTIONS FOR LOCATIONS OF FIRE RATED GYP. BOARD													
7	ALL WOOD DOORS TO BE SOLID CORE													

GLAZING AND FRAME SCHEDULE									
WIN#	ROOM	SOURCE	FRAME		OPER	GLAZ.	MANUF.	WIN#	REMARKS
			MATERIAL	FINISH		TYPE			
W105A	PREMIER VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W105A	2
W105B	PREMIER VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W105B	2
W105C	PREMIER VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W105C	2
W105D	PREMIER VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W105D	2
W105E	PREMIER VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W105E	2
W105F	PREMIER VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W105F	2
W105G	PREMIER VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x,y	OLD CASTLE	W105G	2
W105H	PREMIER VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x,y	OLD CASTLE	W105H	2
W106A	STANDARD VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W106A	2
W106B	STANDARD VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W106B	2
W106C	STANDARD VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W106C	2
W106D	STANDARD VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W106D	2
W106E	STANDARD VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W106E	2
W106F	STANDARD VENUE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W106F	2
W110A	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W110A	2
W110B	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W110B	2
W110C	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W110C	2
W110D	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W110D	2
W110E	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W110E	2
W110F	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W110F	2
W111A	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W111A	2
W111B	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W111B	2
W111C	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W111C	2
W111D	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W111D	2
W111E	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W111E	2
W111F	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W111F	2
W111G	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W111G	2
W111H	ARRANGEMENT	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W111H	2
W115A	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W115A	2
W115B	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W115B	2
W115C	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W115C	2
W115D	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W115D	2
W115E	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W115E	2
W115F	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W115F	2
W116A	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W116A	2
W116B	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W116B	2
W116C	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W116C	2
W116D	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W116D	2
W116E	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W116E	2
W116F	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W116F	2
W117A	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W117A	2
W117B	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W117B	2
W117C	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W117C	2
W117D	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W117D	2
W117E	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W117E	2
W117F	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W117F	2
W118A	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W118A	2
W118B	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W118B	2
W117A	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W118C	2
W118D	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x	OLD CASTLE	W118D	2
W118E	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x,y	OLD CASTLE	W118E	1,2
W118F	OFFICE	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x,y	OLD CASTLE	W118F	1,2
W150A	CORRIDOR	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x,y	OLD CASTLE	W150A	1,2
W150B	CORRIDOR	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x,y	OLD CASTLE	W150B	1,2
W150C	CORRIDOR	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x,y	OLD CASTLE	W150C	1,2
W150D	CORRIDOR	NEW	ALUMINUM	BLACK ANOIZED	FIXED	x,y	OLD CASTLE	W150D	1,2
GLAZING TYPE: x. CLEAR GLASS y. TEMPERED									
REMARKS: 1. SIDE-LITE/DOOR FRAME ASSEMBLY, REF. DOOR SCHEDULE AND ELEVATIONS 2. STOREFRONT - U-VALUE=0.37, SHGC=0.25									
NOTES: GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF ANY EXISTING CONDITIONS OR NEW WORK PRIOR TO PERFORMING ANY WORK OR ORDERING ANY MATERIALS. ANY DISCREPANCIES SHALL BE REPORTED TO ARCHITECT FOR CONSIDERATION PRIOR TO PROCEEDING WITH WORK. GC ASSUMES RESPONSIBILITY OWNER AND CONTRACTOR TO VERIFY ALL SCHEDULES PRIOR TO ORDERING MATERIALS ALTERNATES REQUIRE SUBMITTAL TO ARCHITECT AND OWNER FOR APPROVAL PRIOR TO ORDERING MATERIAL ALL HARDWARE AND THRESHOLDS TO BE TAS COMPLIANT ALL EXTERIOR GLAZING TO BE DOUBLE PANE, LOW-E INSTALL TEMPERED SAFETY GLAZING WHERE SHOWN AS WELL AS WHERE REQUIRED BY CODE									



(T) = TEMPERED GLASS



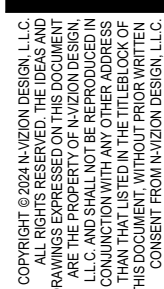
WEED CORLEY FISH
301 S. Flagstad Rd.
Leander, TX 78641

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Window Schedule & Window Types
Project Number: 230502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration No.: TX PE Firm F-1223, TX-25489, LA, 6413 MI
1301069591, NV 6252, NC: 14883, OH: ARC-1917785

Date:	Drawn by:	Checked by:	Permit Set
06/07/24	CJL		
10/25/24			

A303



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FORMS • ENVIRONMENTS • IMAGES

Elevations

Date:	Description:
06.07.24	CD Set
10.25.24	Rev1 Permit Set
04.09.25	Rev2 City Comments



WINDOW AREA PERCENTAGE CHART
WALLS 1,193 SQ.FT.
WINDOWS/DOORS 446 SQ.FT.
1,639 SQ. FT. = 37.02 SQ. FT.

REFERENCE MATERIAL SCHEDULE FOR DETAILED MATERIAL SPECS



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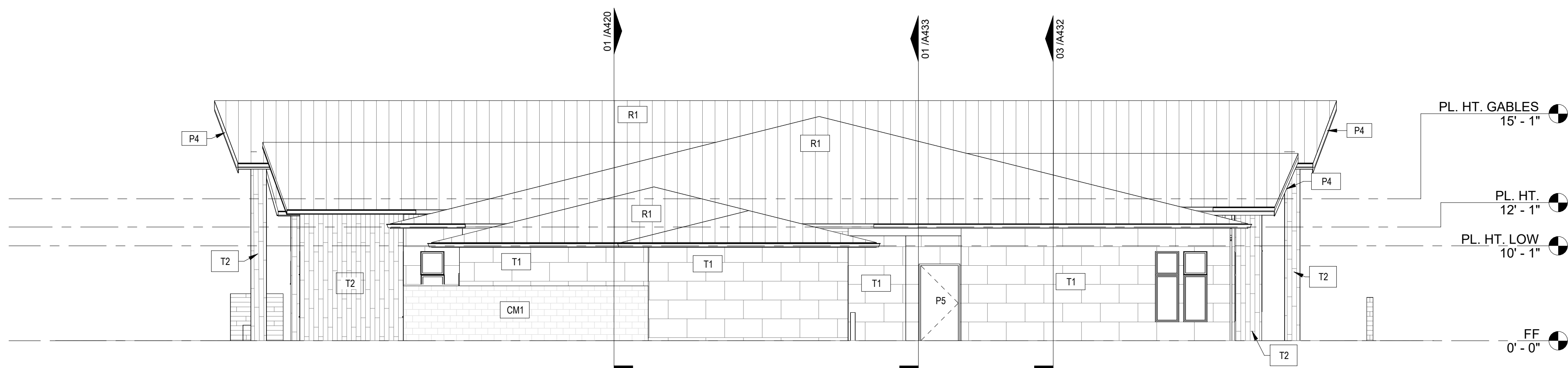
Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78841

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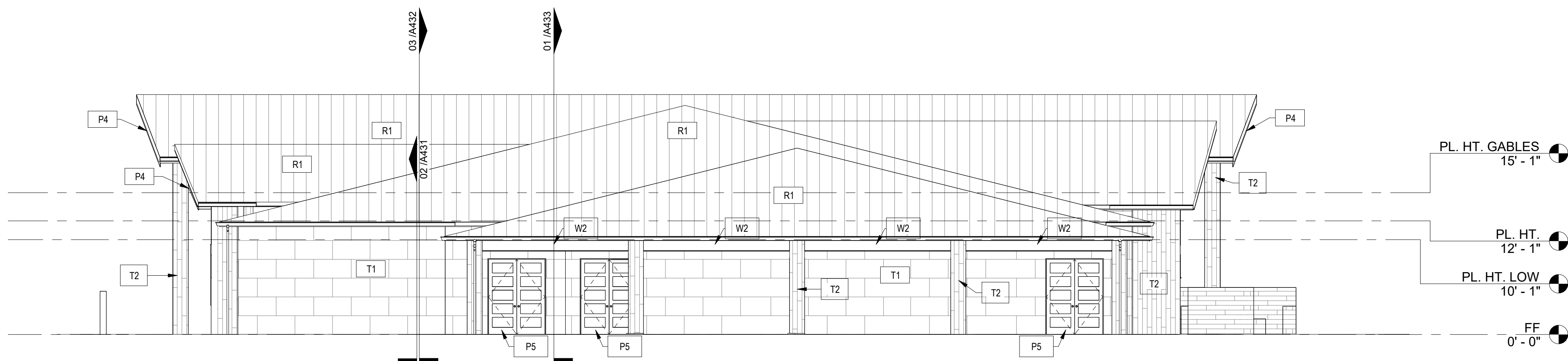
Elevations
Project Number: 220502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-1223, TX 25489, LA, 6413 MI;
1301069591, NV 6252, NC: 14883, OH: ARC-1917885

Date	Description	By	Check
06/07/24	CD Set	SA	
06/20/25	Rev2 City Comments		

A401



02 Right Elevation - Bagdad Road
1/8" = 1'-0"



01 Left Elevation - Vista Ridge Drive
1/8" = 1'-0"

FRONT ELEVATION CALCULATIONS

MASONRY AREA PERCENTAGE
WALLS 1,183 SQ. FT.
WINDOWS/DOORS 446 SQ. FT.
TOTAL MASONRY 747 SQ. FT.

EXTERIOR MASONRY PERCENTAGES
ALL EXTERIOR WALL FINISHES ARE
MASONRY VENEERS
PROPOSED MASONRY PERCENTAGE =
100%

SECTION 3: TYPE C

(b) Exterior Wall Standards:

- (2) Our building front has at least five different design features to break the wall plane and is under 50,000 SQ. FT.
Our buildings design satisfies more than five design features.
- 1) Projections
 - 2) Porches - Cocheres
 - 3) Recessed Entries
 - 4) Ornamental Cornices
 - 5) Vertical Elevation Offsets
 - 6) Outdoor Patio
 - 7) Tile Work
 - 8) Varied Roof Heights

NOTES:

- 1) ALL PERMANENT EXTERIOR LIGHTING SHALL BE NON-FLASHING AND SHIELDING SUCH THAT THE LIGHT SOURCES IS NOT VISIBLE FROM THE PUBLIC RIGHT-OF-WAY OR ADJACENT RESIDENTIAL USES AT THE PROPERTY LINE. WALL PACK LIGHTING AND OTHER LIGHTING THAT DIRECTS THE LIGHT IN A HORIZONTAL DIRECTION WITHOUT AN ADEQUATE SHIELD IS NOT PERMITTED IF THERE ARE STREETS OR RESIDENTIAL USES IN THE DIRECTION OF THE LIGHT.
- 2) ALL SITE UTILITY LINES ARE PROPOSED TO BE LOCATED UNDERGROUND.
- 3) WINDOWS SHALL HAVE A MAXIMUM EXTERIOR REFLECTIVITY OF TWENTY (20%) PERCENT.

MATERIALS:

T1 - MARAZZI - UNICHE - BIANCO UN10 - MATTE - 24X48
T2 - DALTILE - ARTICULO - EDITORIAL WHITE AR06 - MATTE 6X24
R1 - MCELROY - MAXIMA - 2" SEAM - 18" WIDE PANEL - MATTE BLACK
P4 - SHERWIN WILLIAMS - DURATION EXTERIOR ACRYLIC LATEX - SW6258 TRICORN BLACK - SATIN
P5 - SHERWIN WILLIAMS - DURATION EXTERIOR ACRYLIC LATEX - SW9166 DRIFT OF MIST - SEMI-GLOSS
P6 - SHERWIN WILLIAMS - POLYURETHANE SEMI-TRANSPARENT - CLEAR MATTE SEALER - WOOD W1 & W2 TO MATCH COLOR OF TILE 4

REFERENCE MATERIAL SCHEDULE FOR DETAILED MATERIAL SPECS.

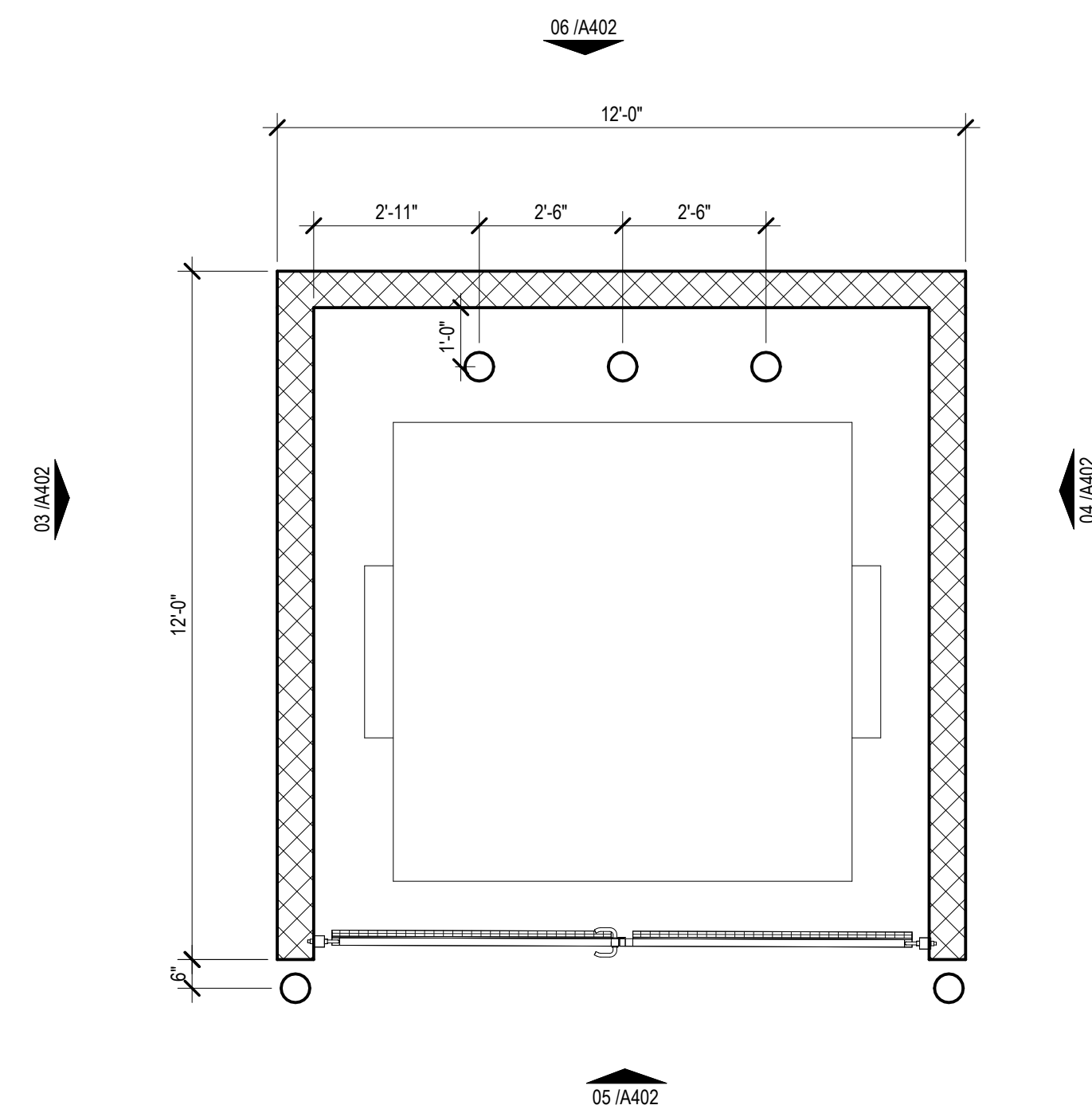
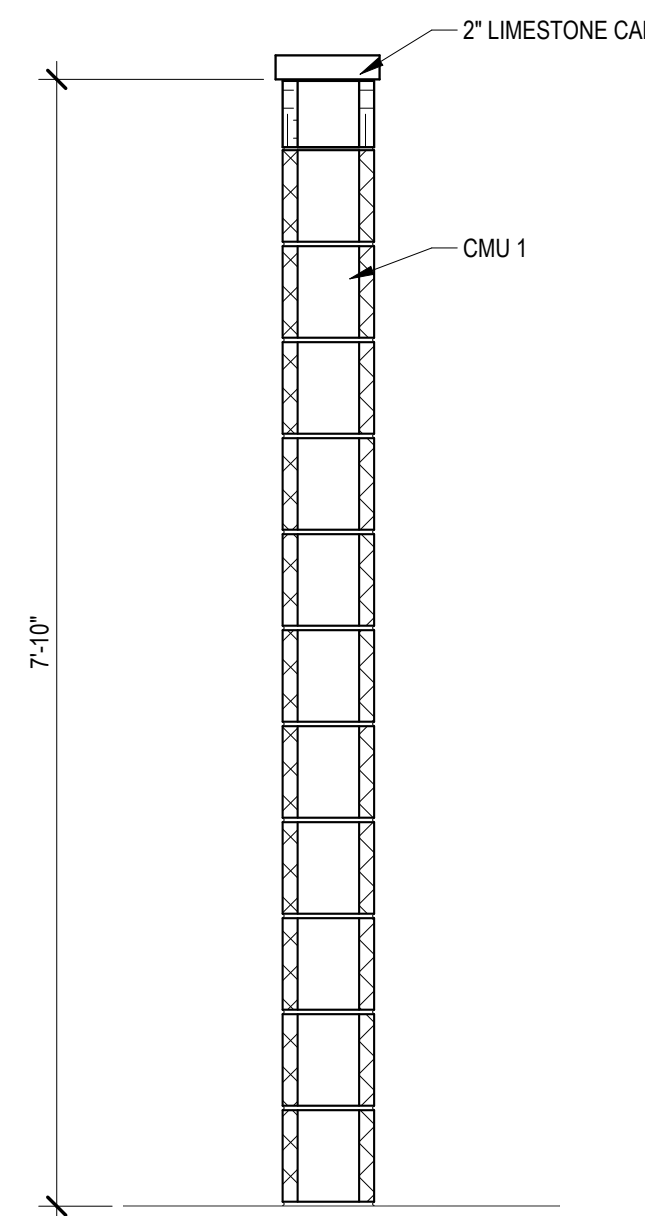
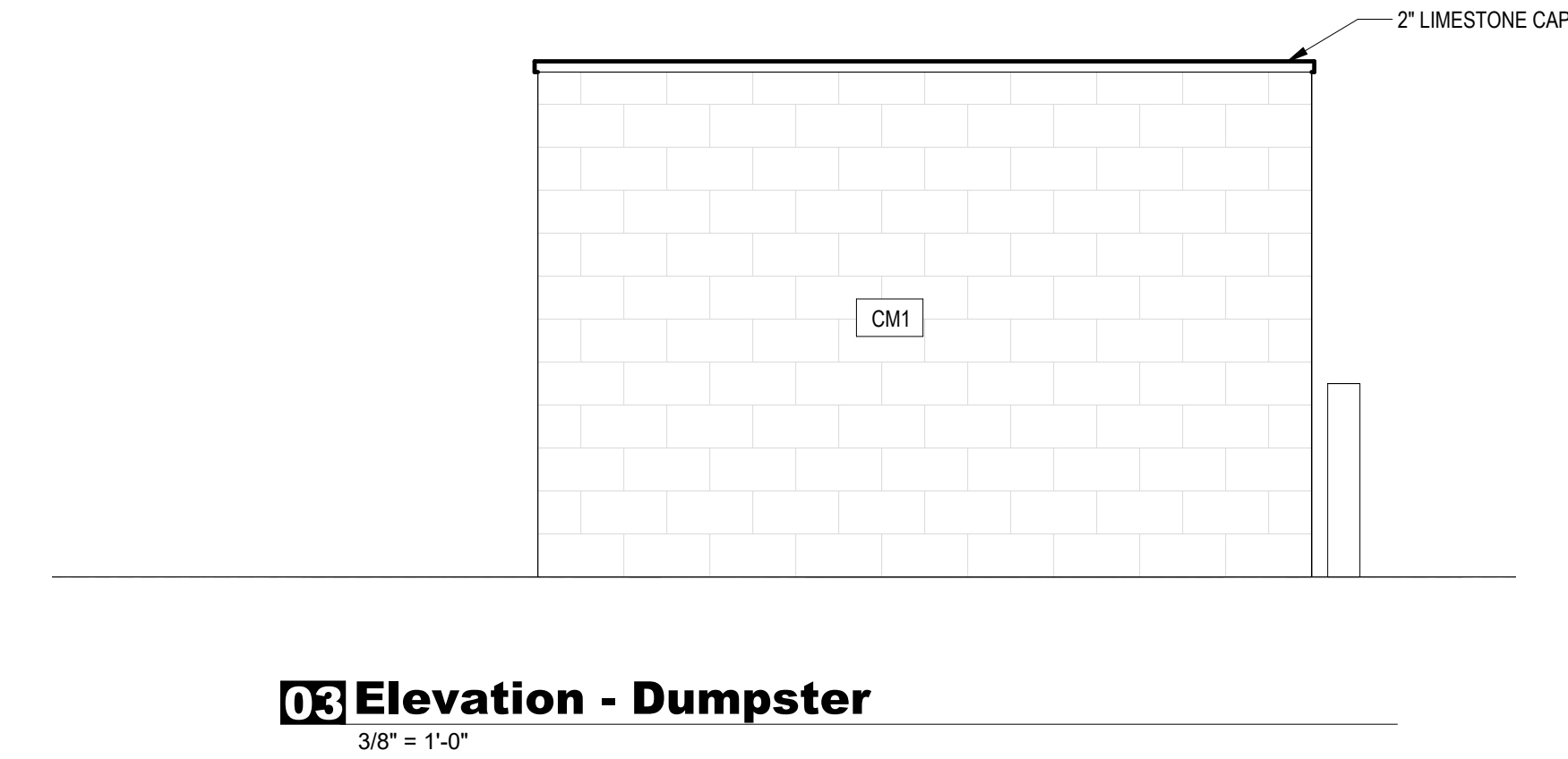
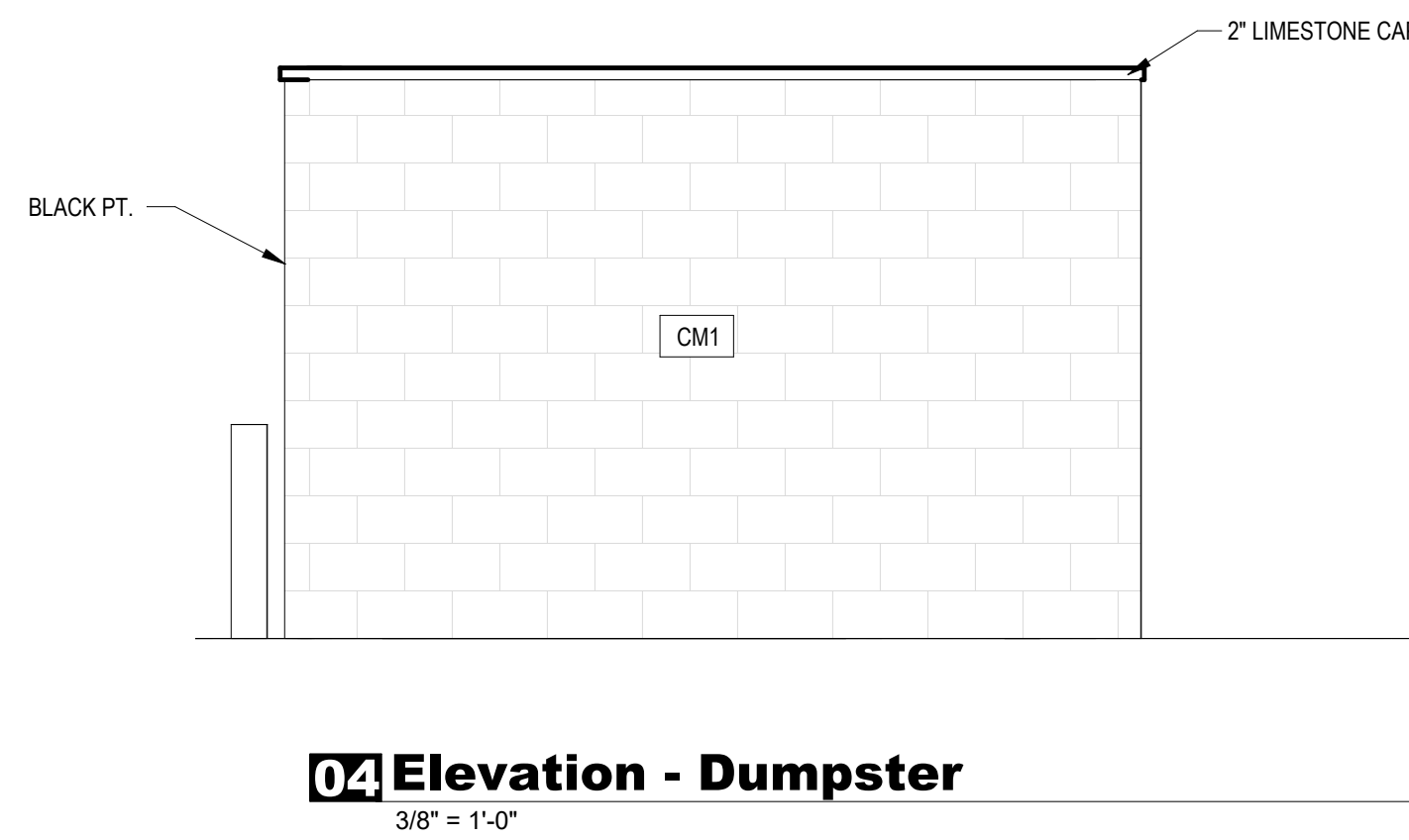
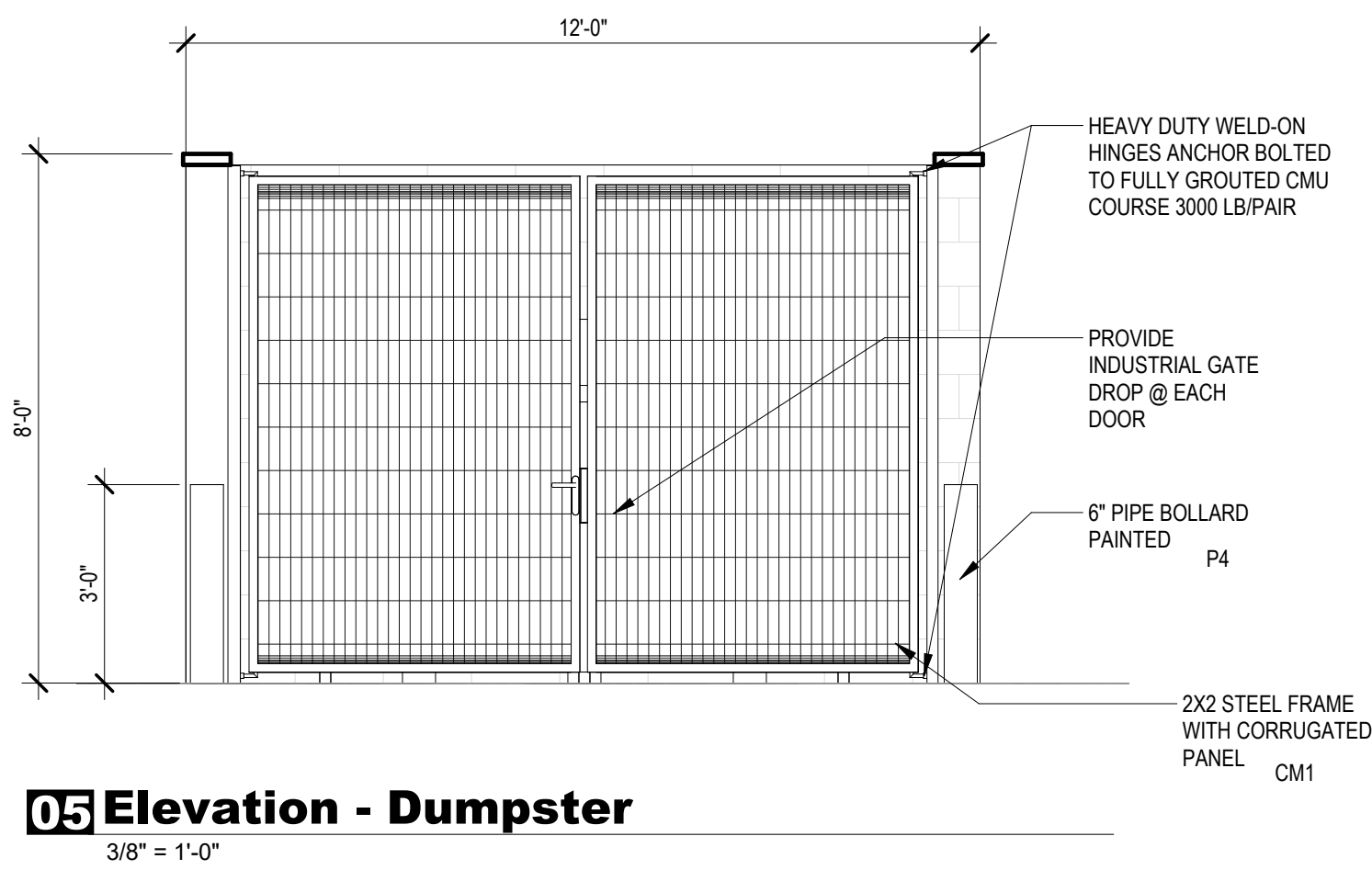
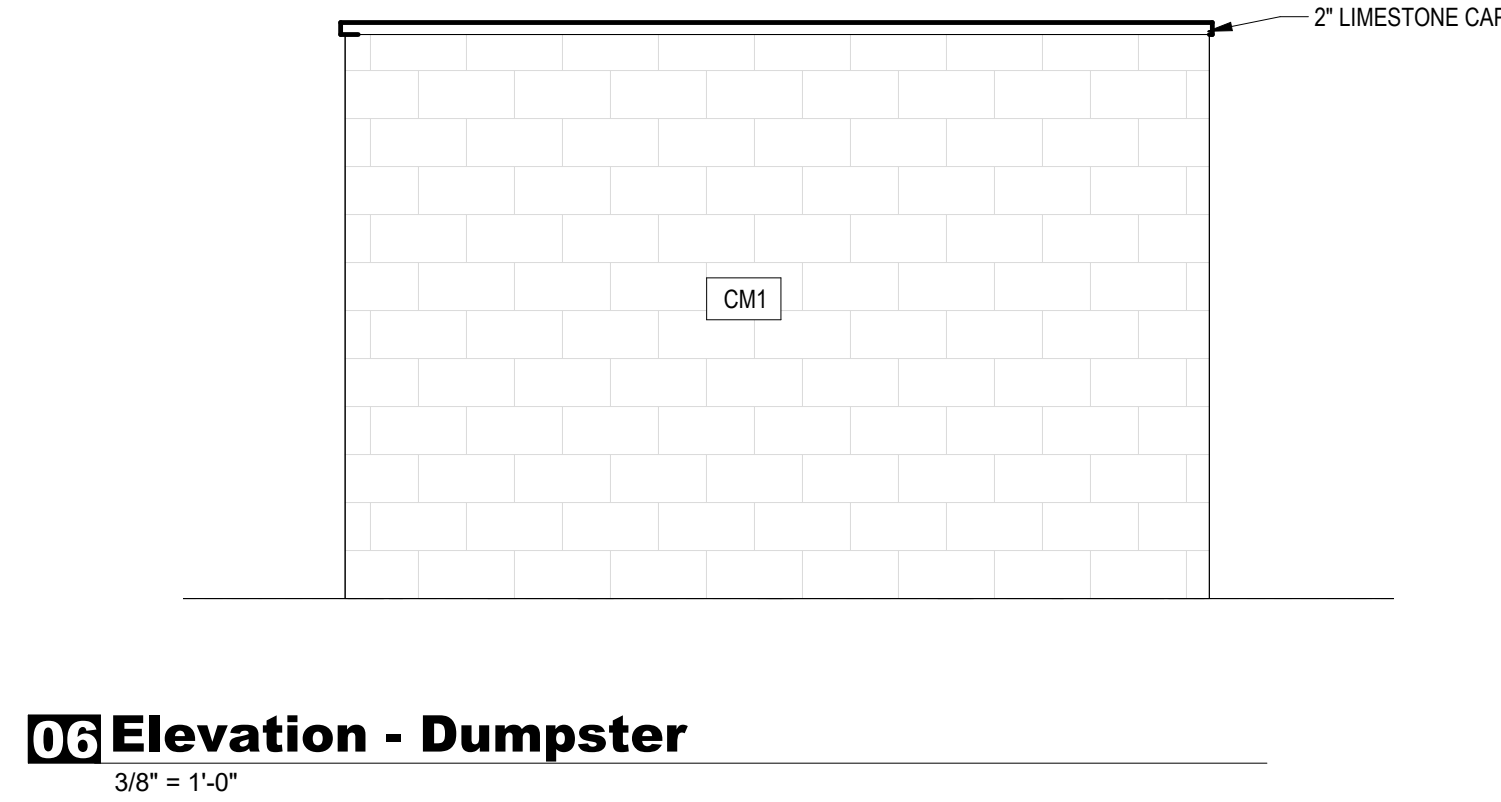
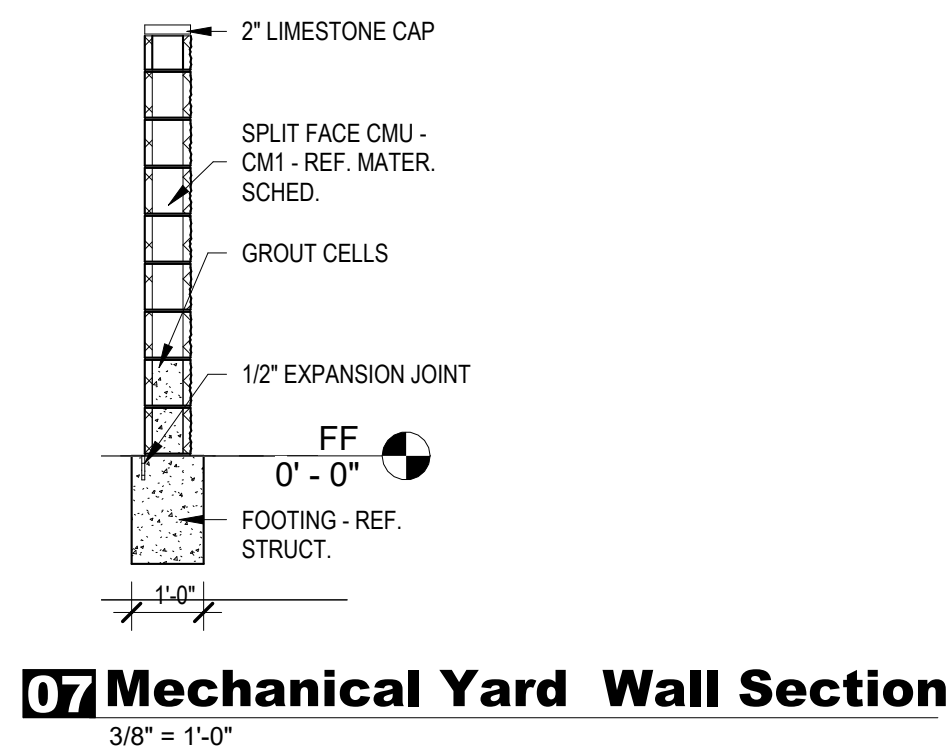
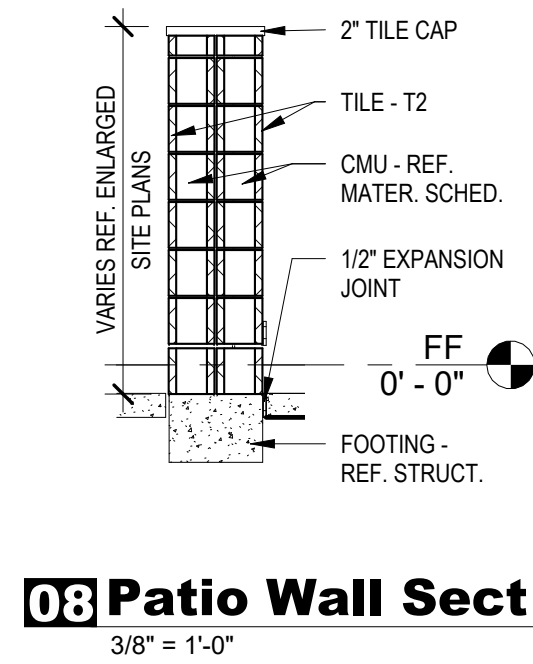
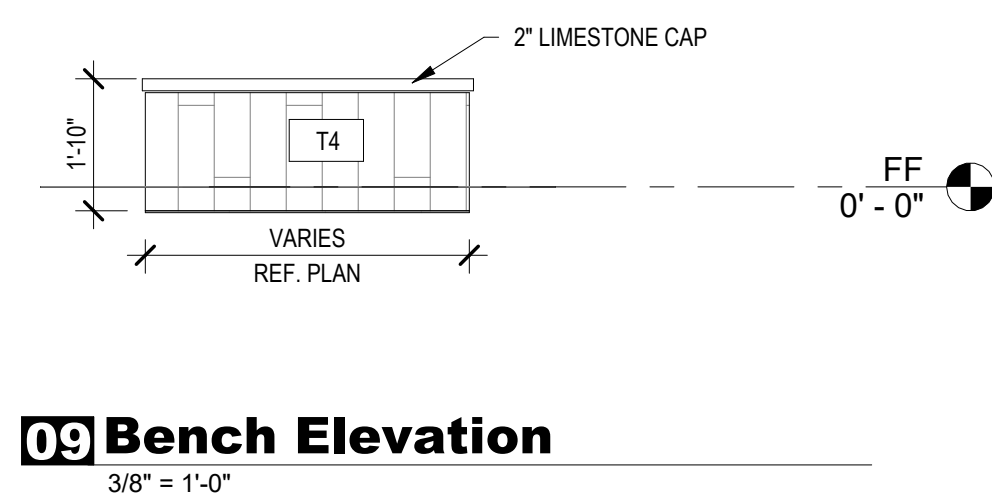
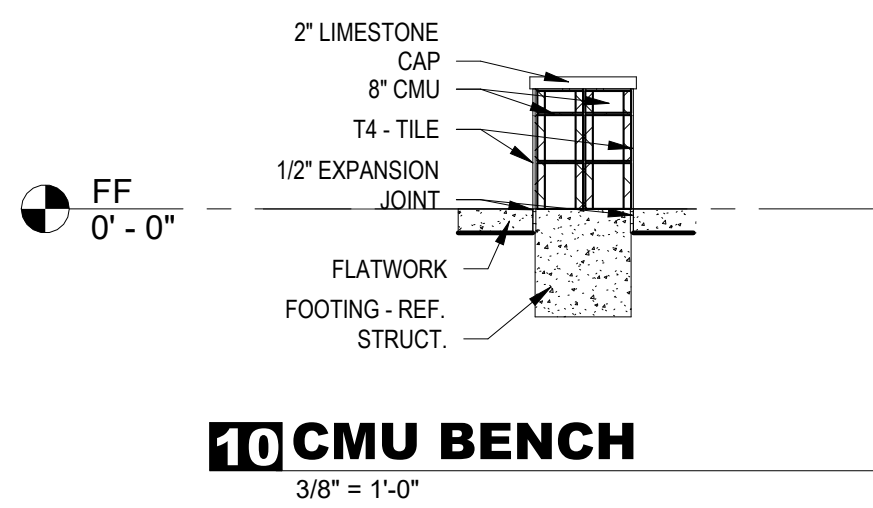
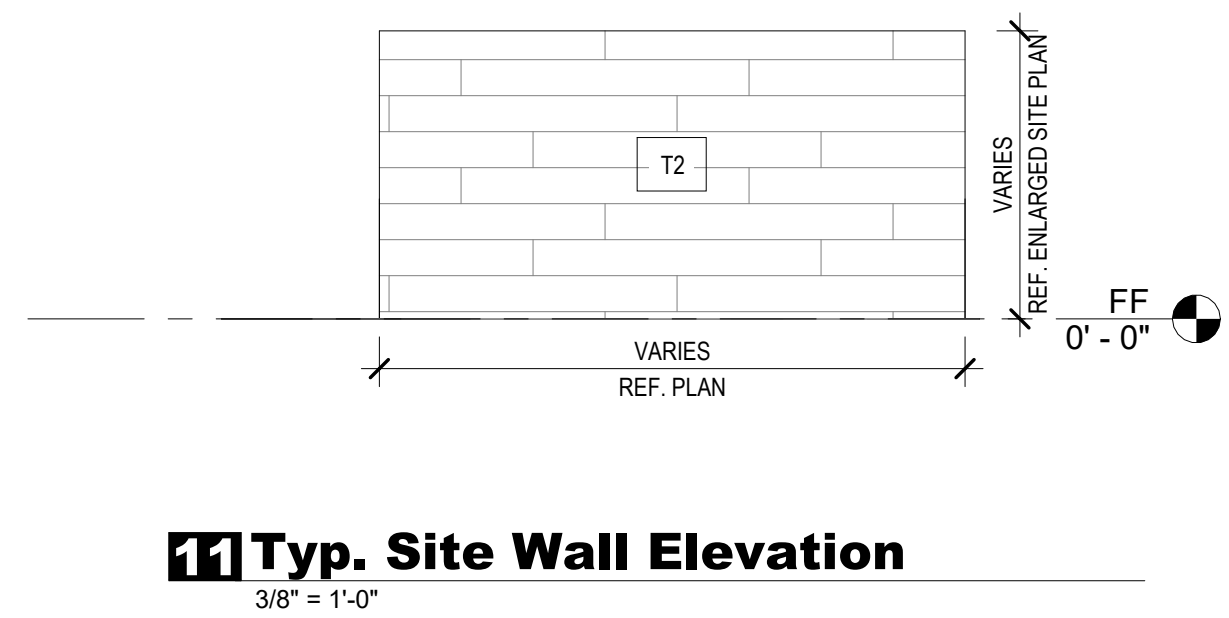


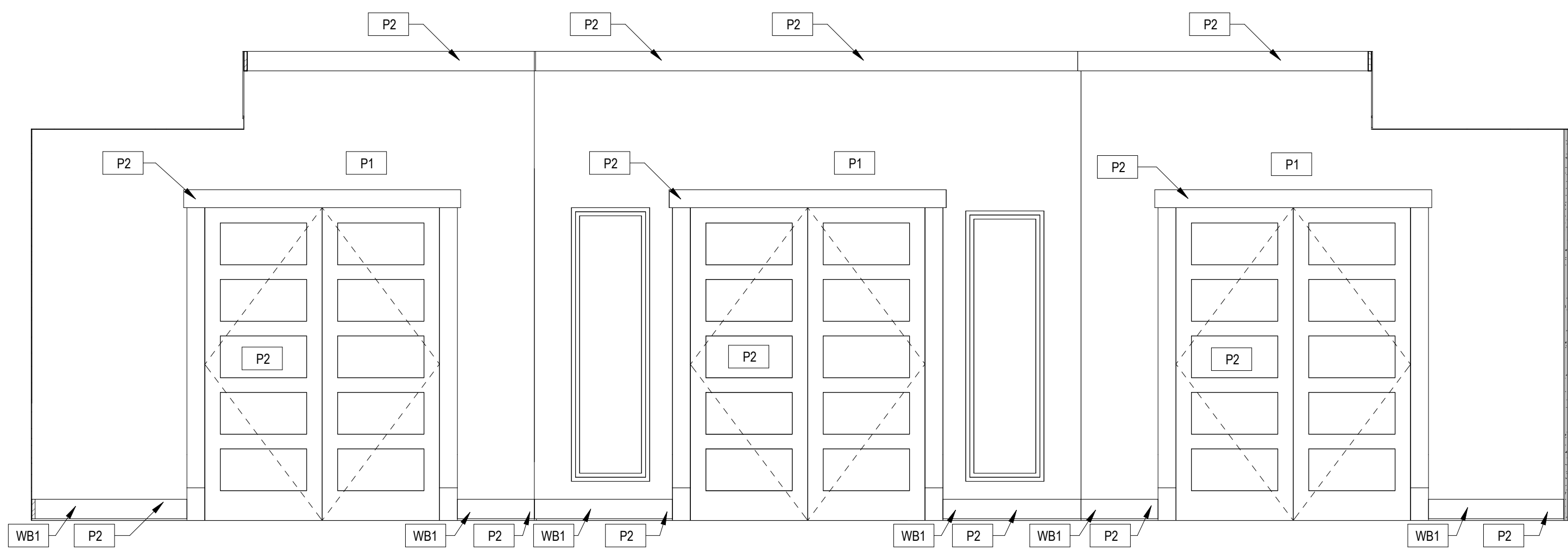
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Leander, TX 78841

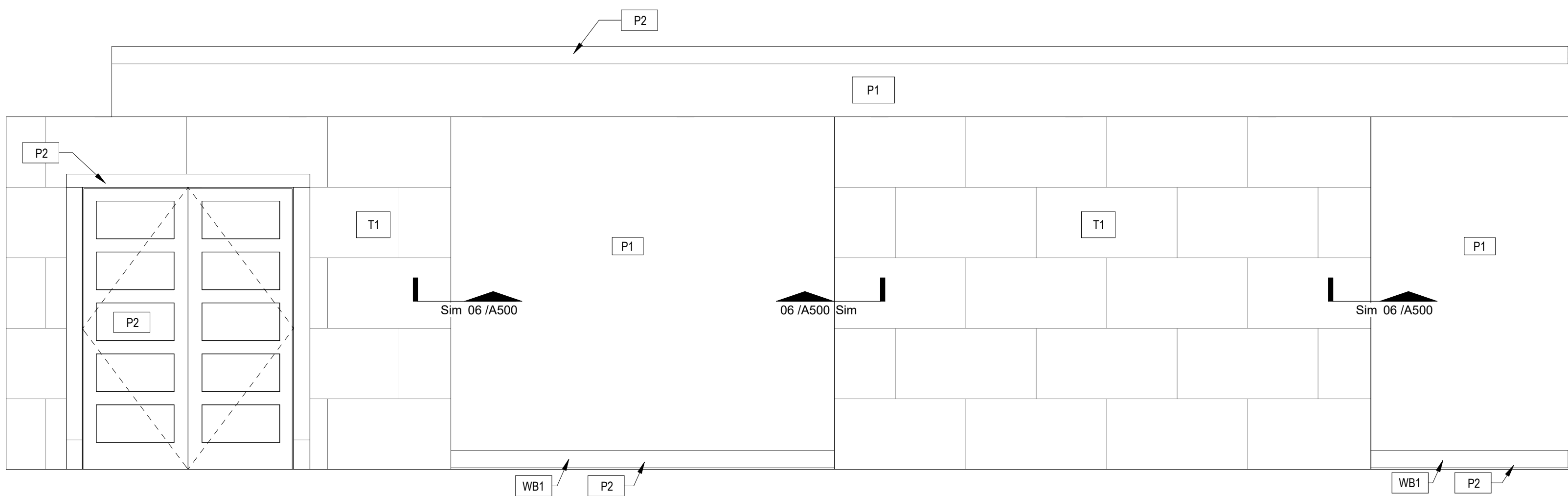
Elevations - Dumpster
Project Number: 220502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration Nos.: TX PE Firm F-12223, TX-25488, LA, 6413 MI;
1301069561, NV-6252, NC: 14883, OH-ARC-1917885

Date:	Description:
06/07/24	CD Set
07/02/24	Rev 1
04/09/25	Rev 2 City Comments

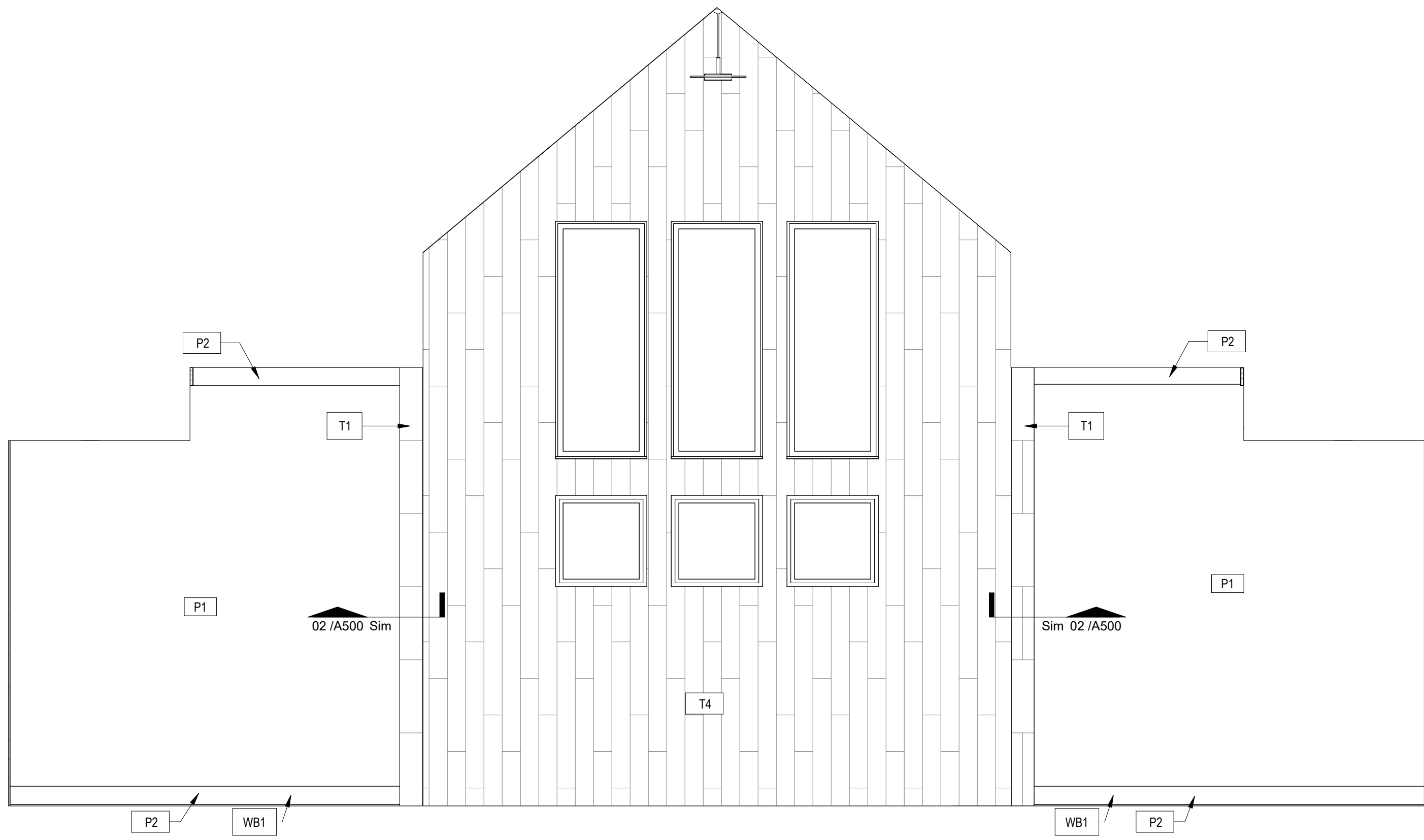




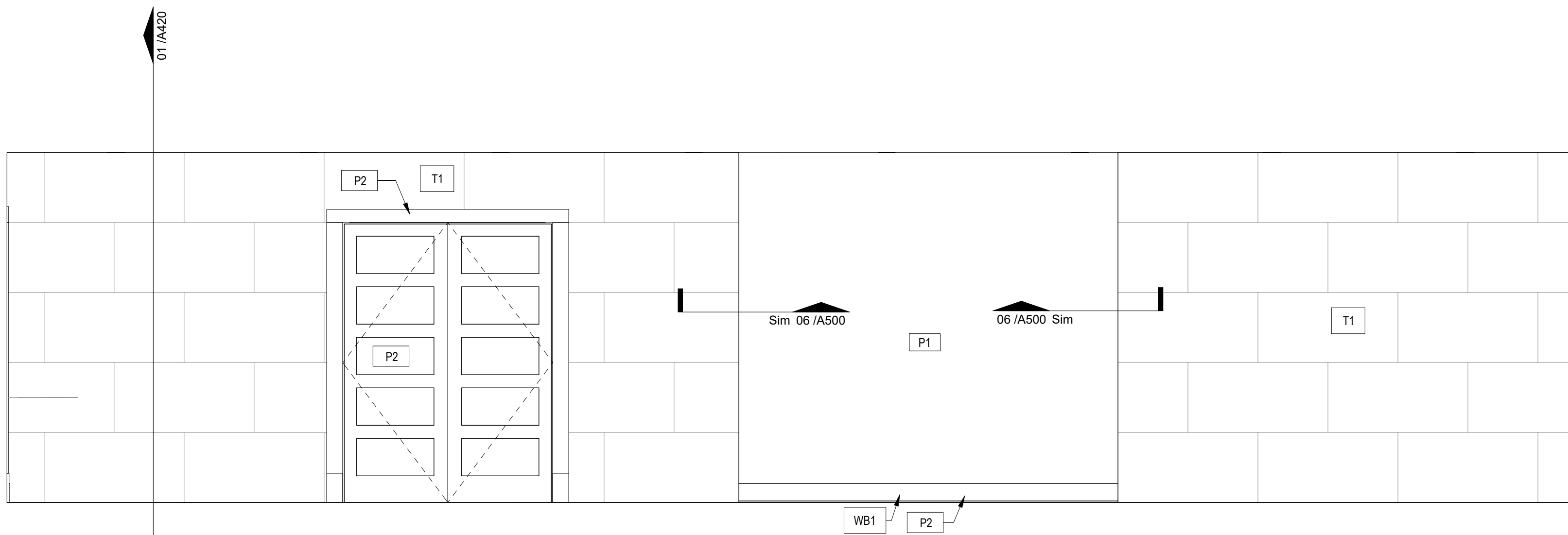
04 Premiere Venue
3/8" = 1'-0"



03 Premiere Venue
3/8" = 1'-0"



02 Premiere Venue
3/8" = 1'-0"



01 Premiere Venue
3/8" = 1'-0"



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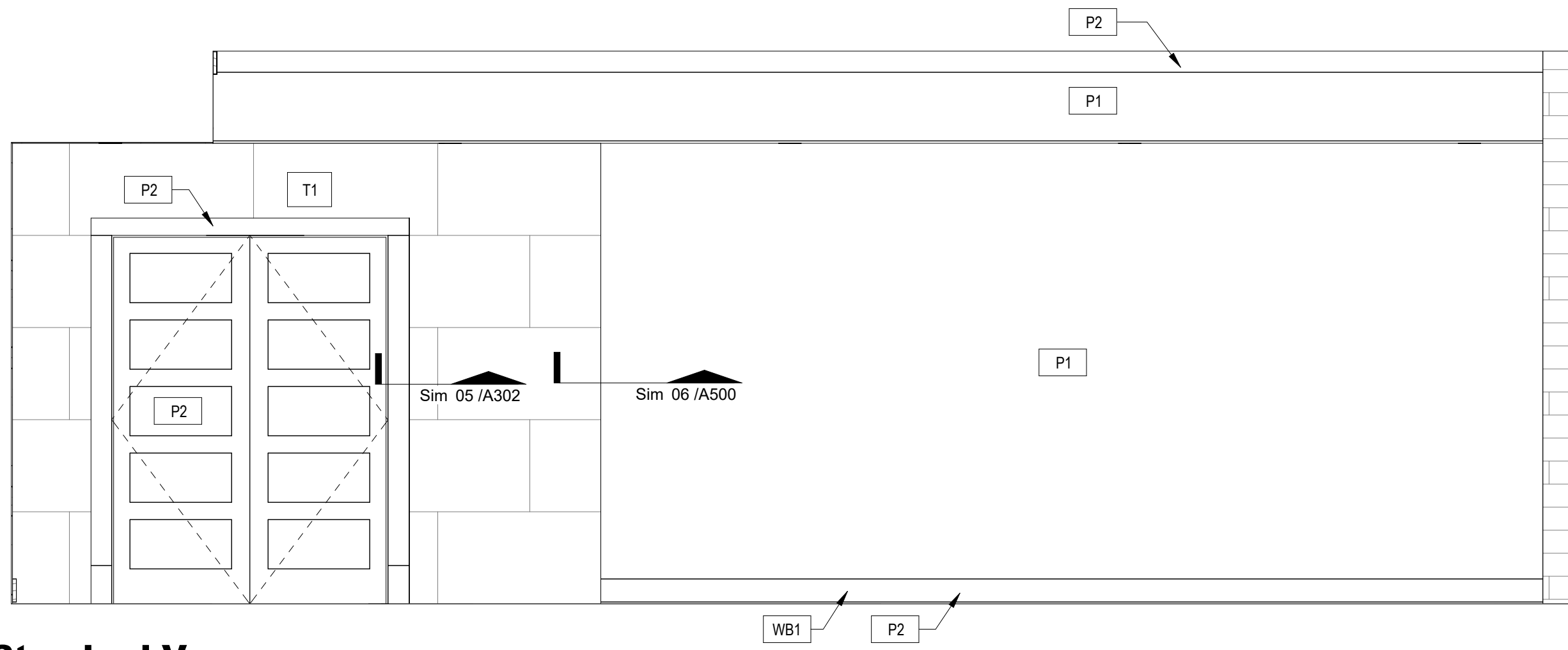
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Interior Elevations

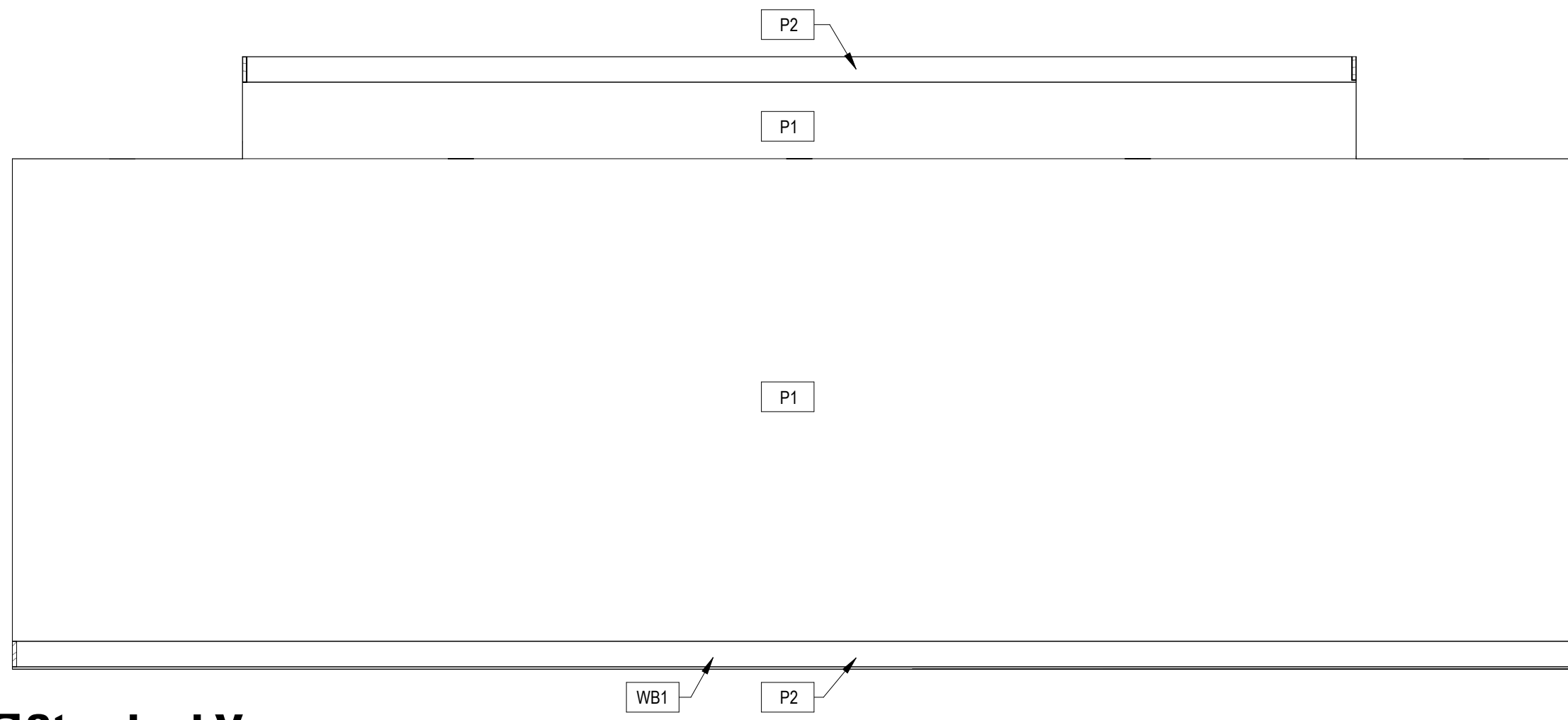
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N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration Nos.: TX PE Firm F-1223, TX 25488; LA 9413 MI;
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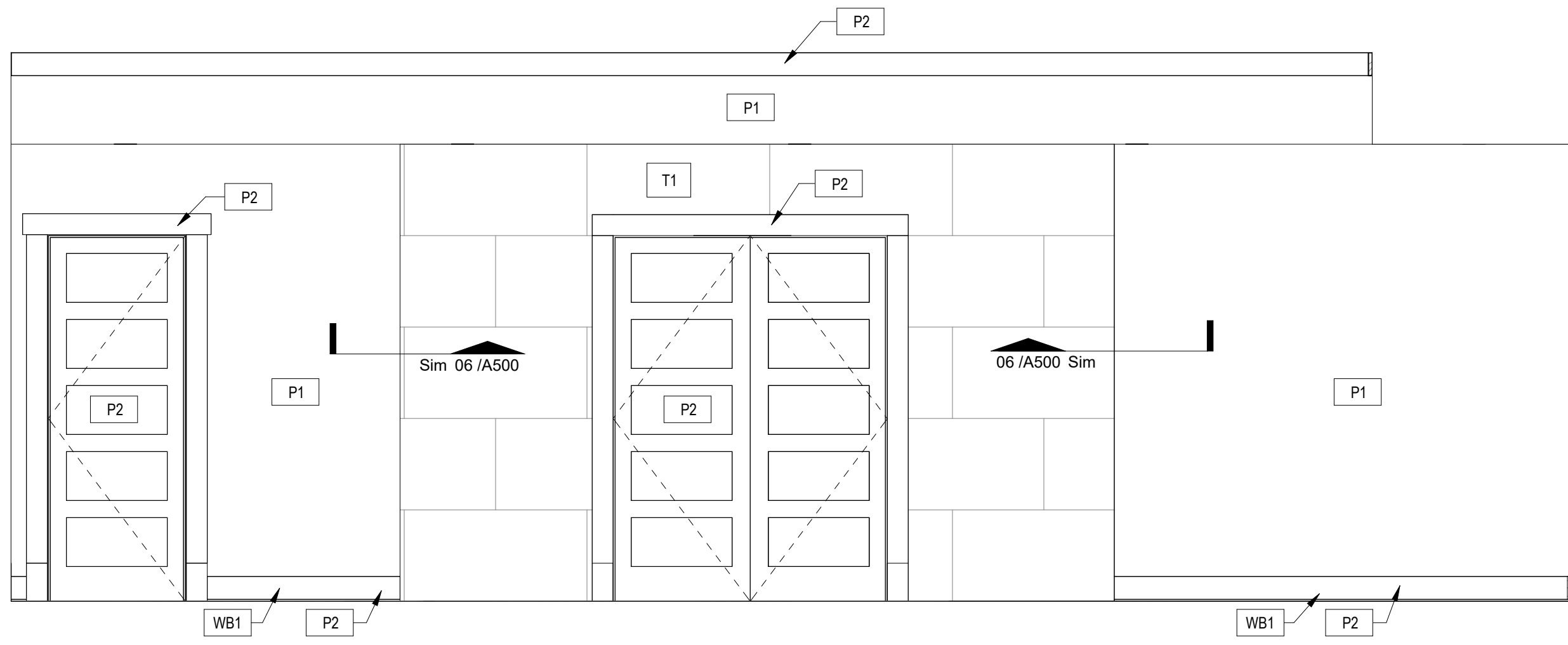
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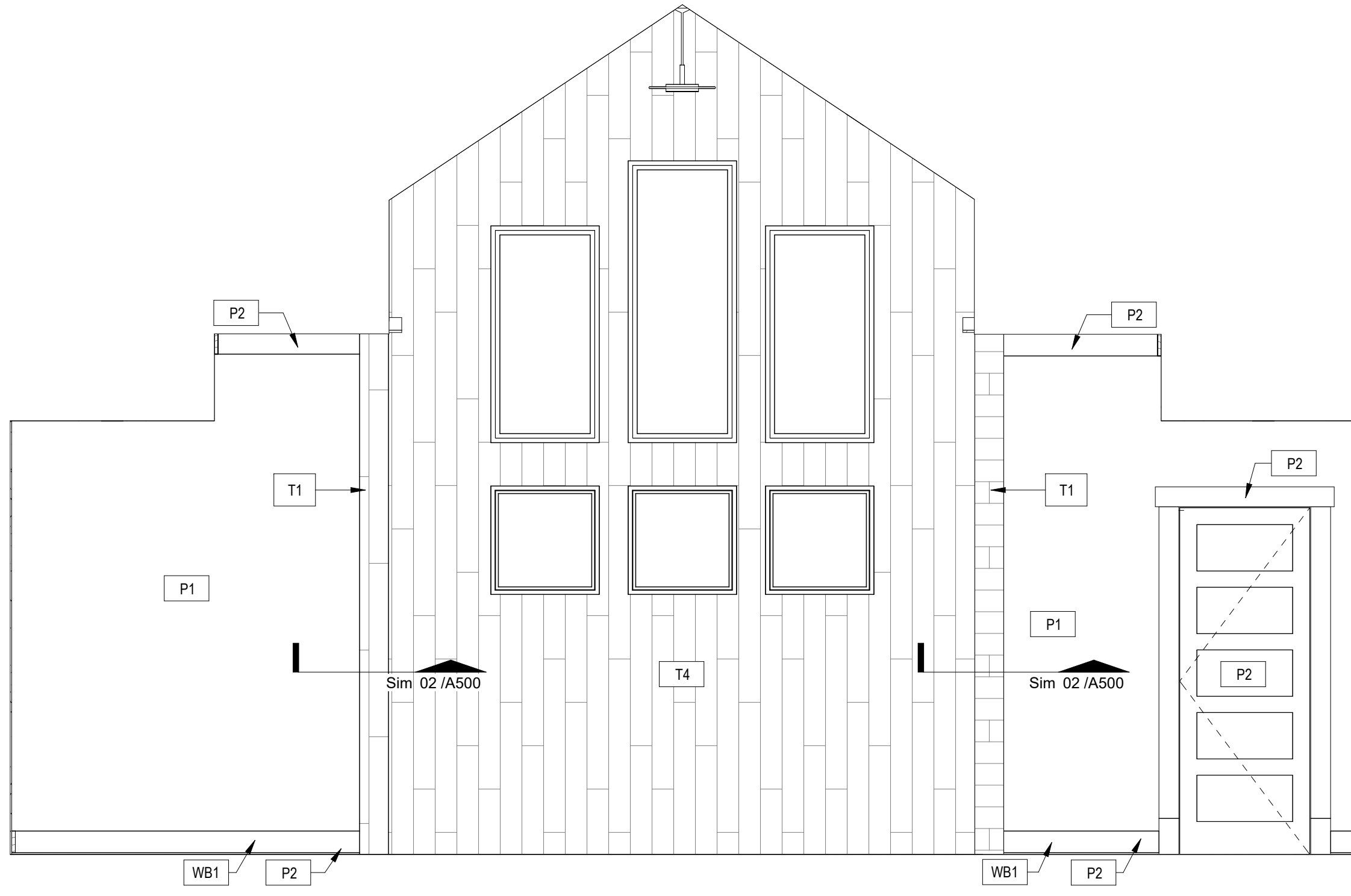
04 Standard Venue
3/8" = 1'-0"



03 Standard Venue
3/8" = 1'-0"



02 Standard Venue
3/8" = 1'-0"



01 Standard Venue
3/8" = 1'-0"



WEED CORLEY FISH
301 S. EIGHTH RD.
LEANDER, TX 78841

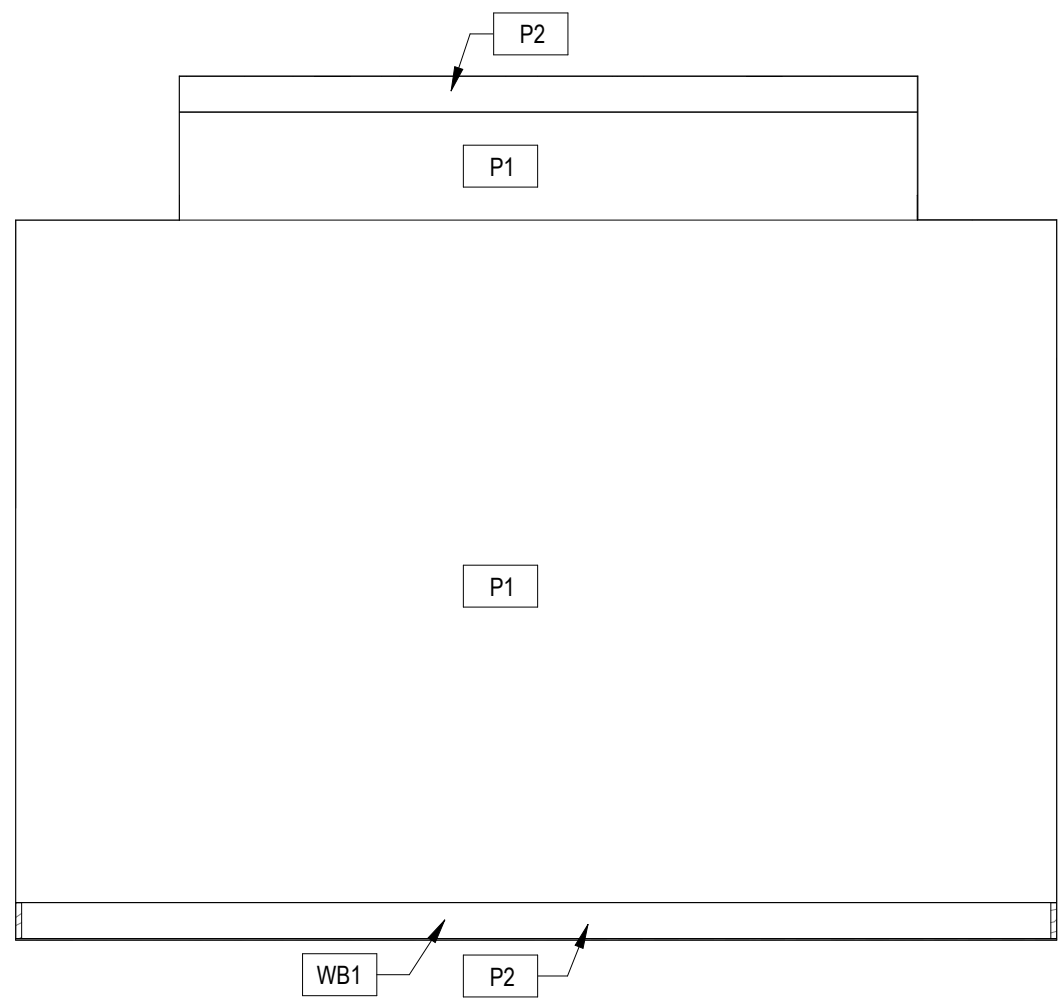
Weed Corley Fish
301 S. Eighth Rd.
Leander, TX 78841

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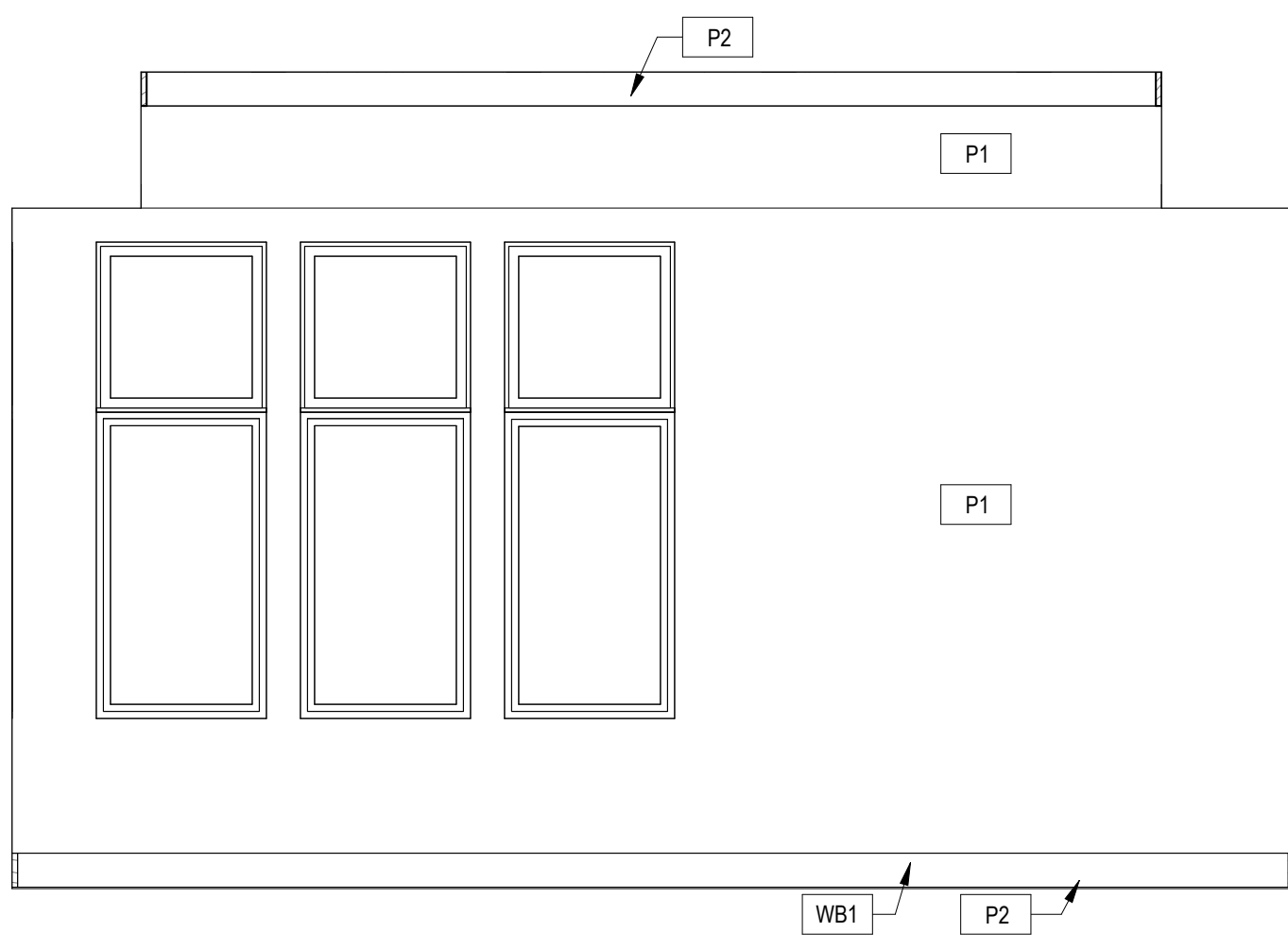
Interior Elevations
Project Number: 230502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration Nos.: TX PE Firm F-1223, TX 25488, LA 6413 MI;
1301069561, NV 6252, NC: 14883, OH: ARC-1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev1 Permit Set

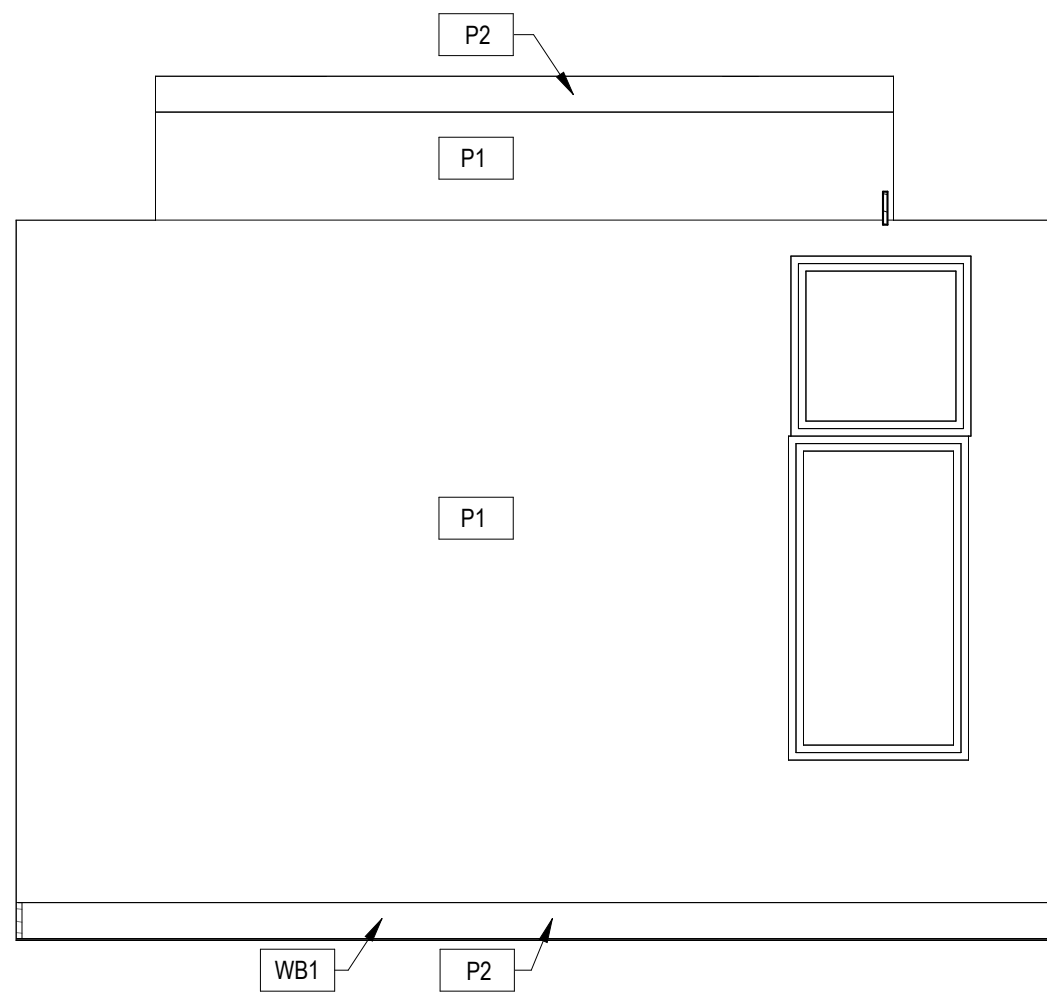
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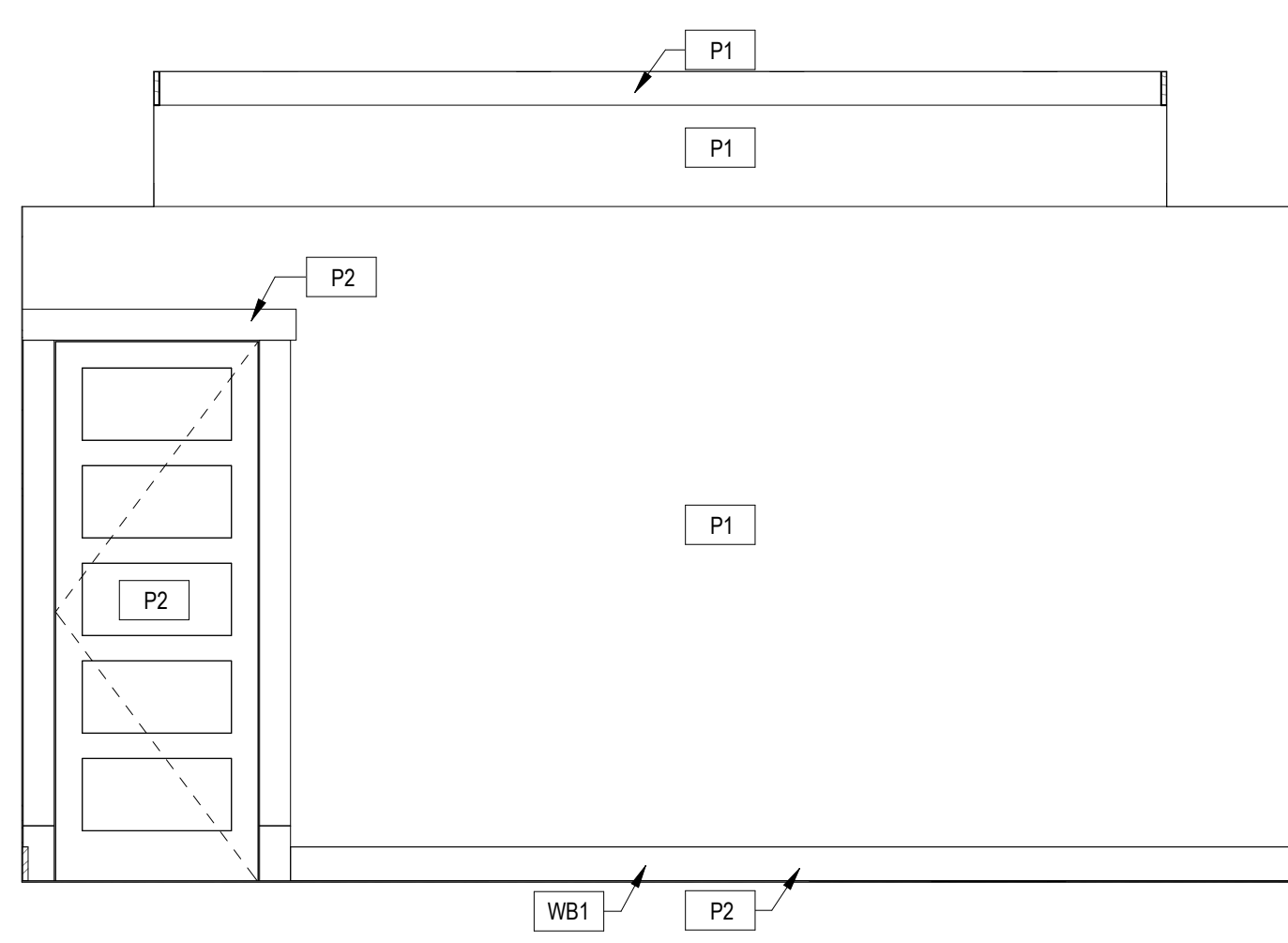
12 Arrangement 111
3/8" = 1'-0"



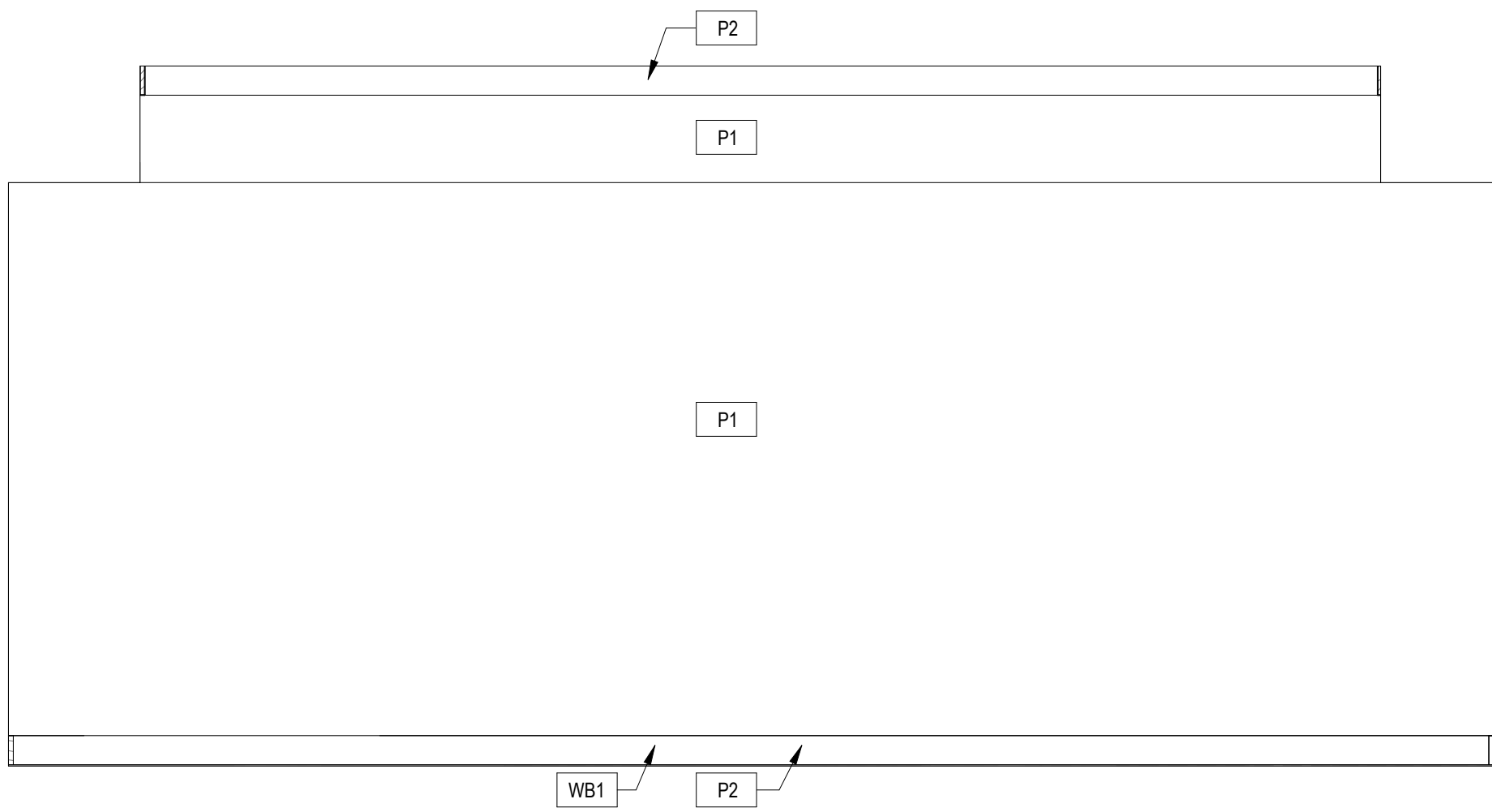
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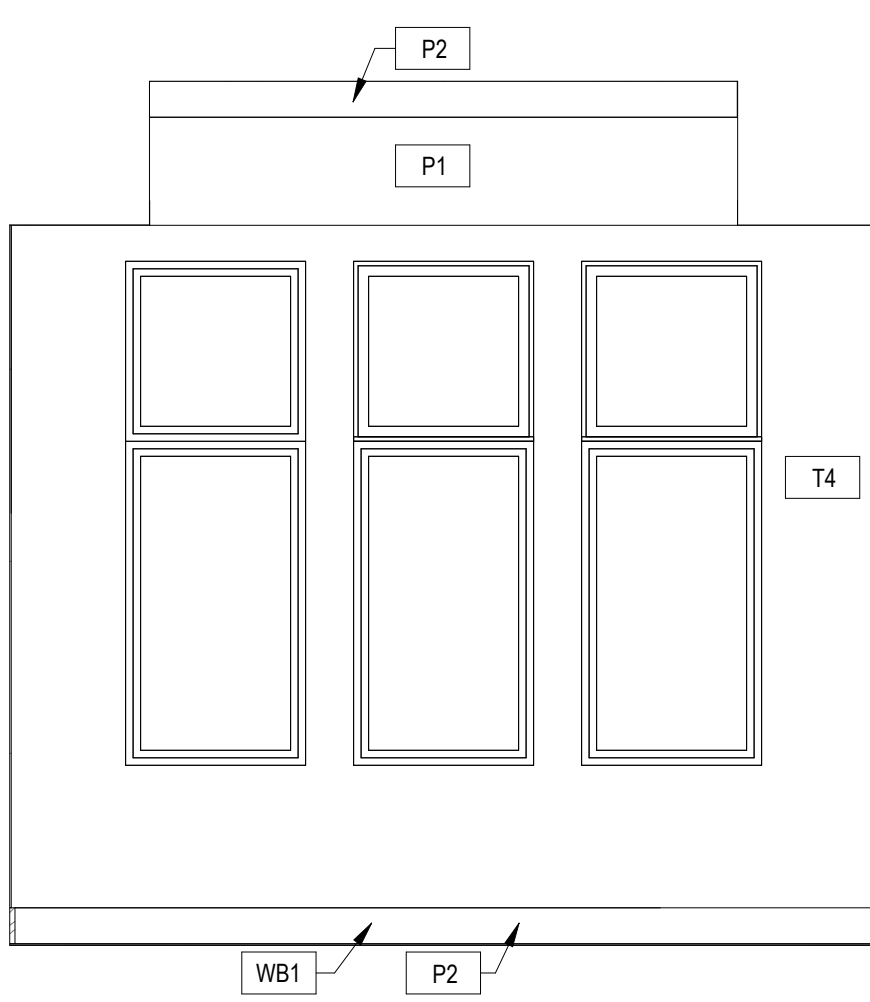
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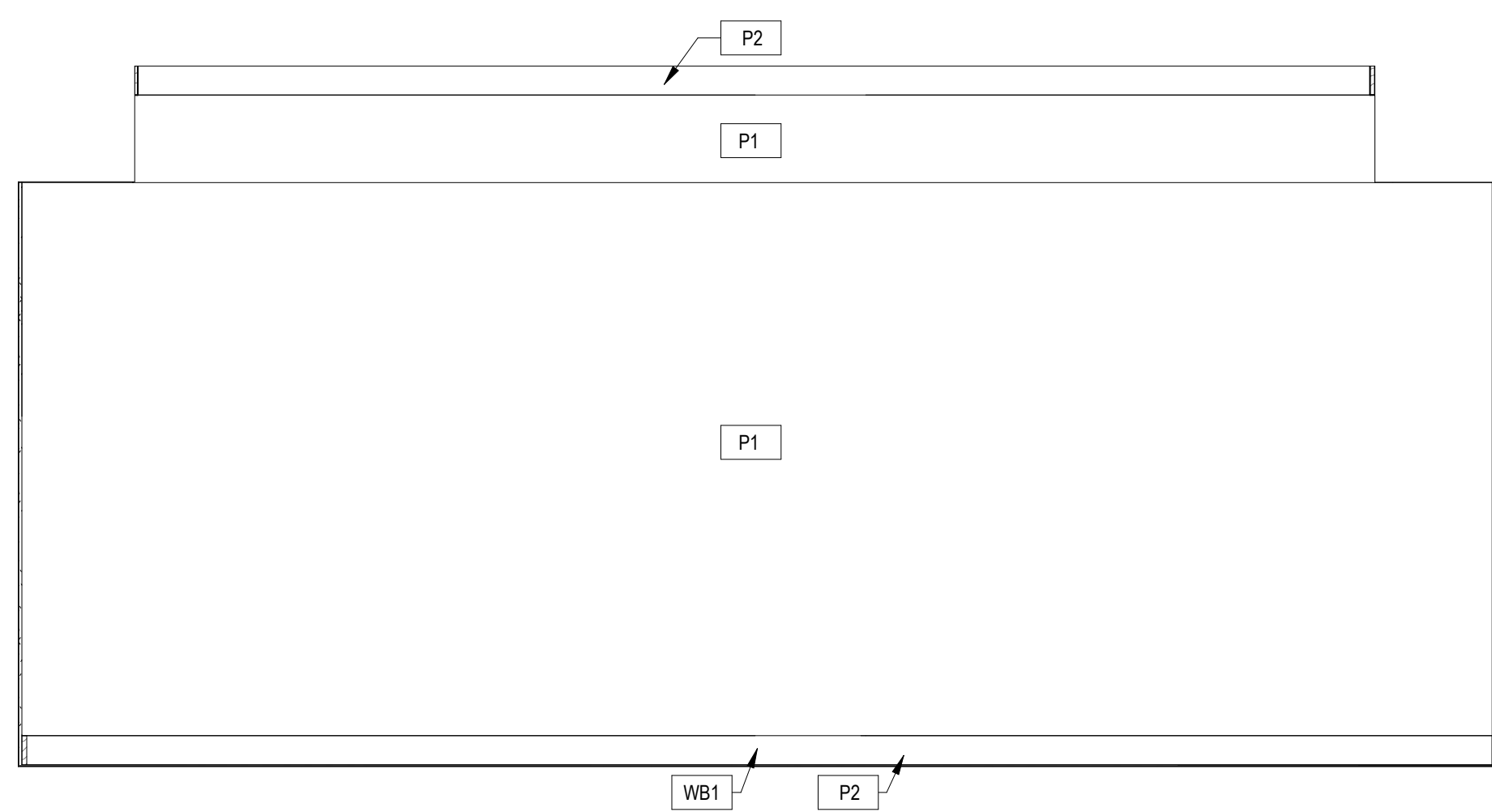
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3/8" = 1'-0"



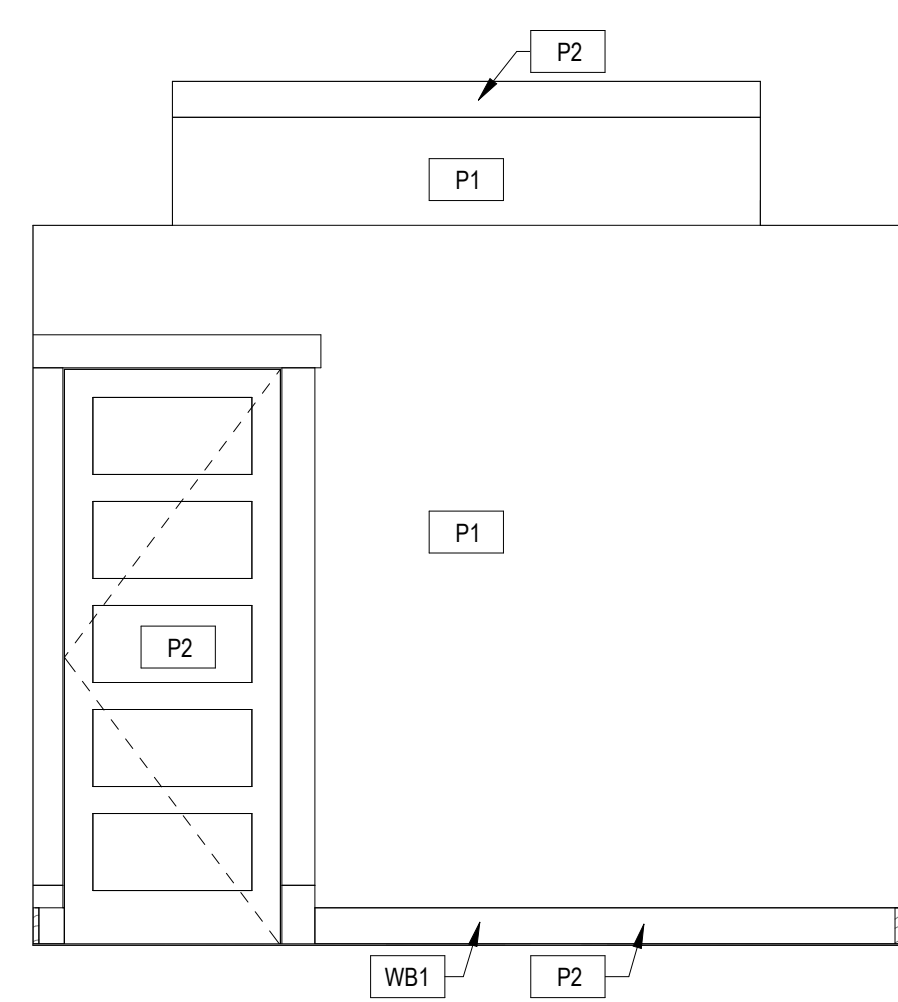
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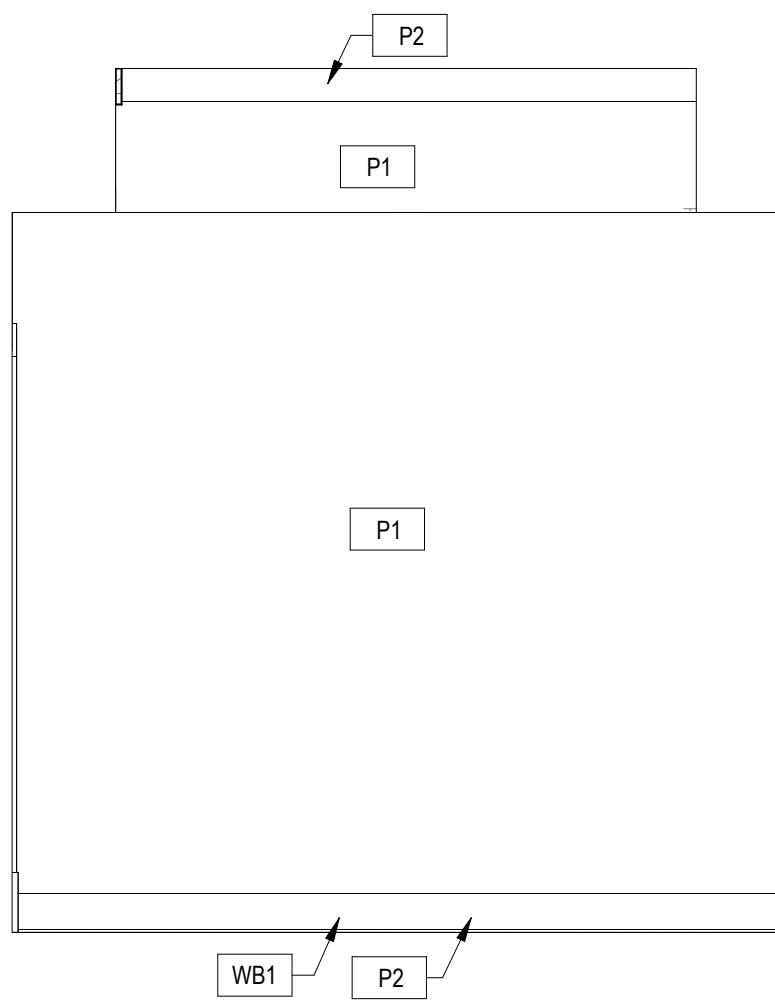
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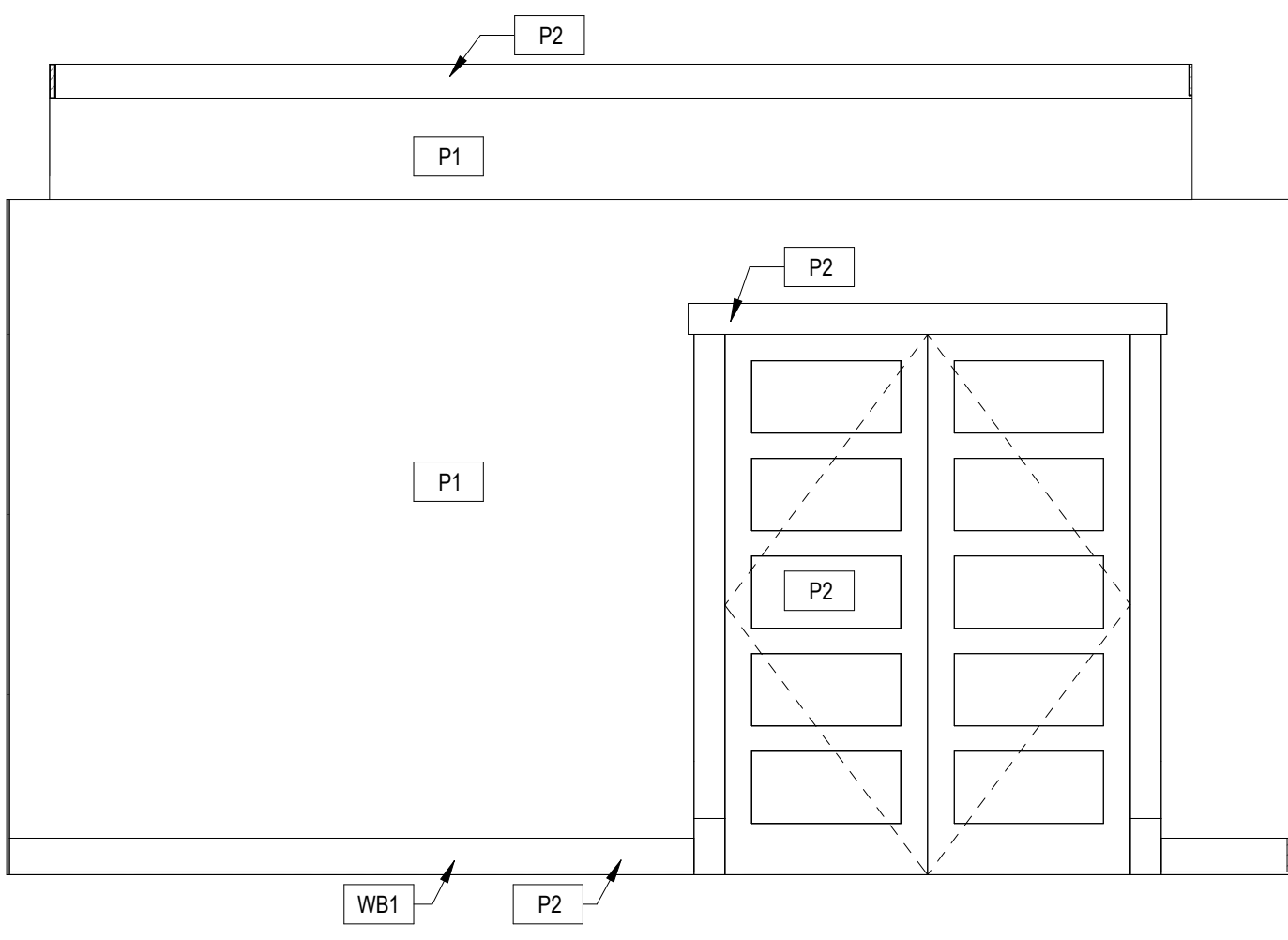
06 Arrangement 126
3/8" = 1'-0"



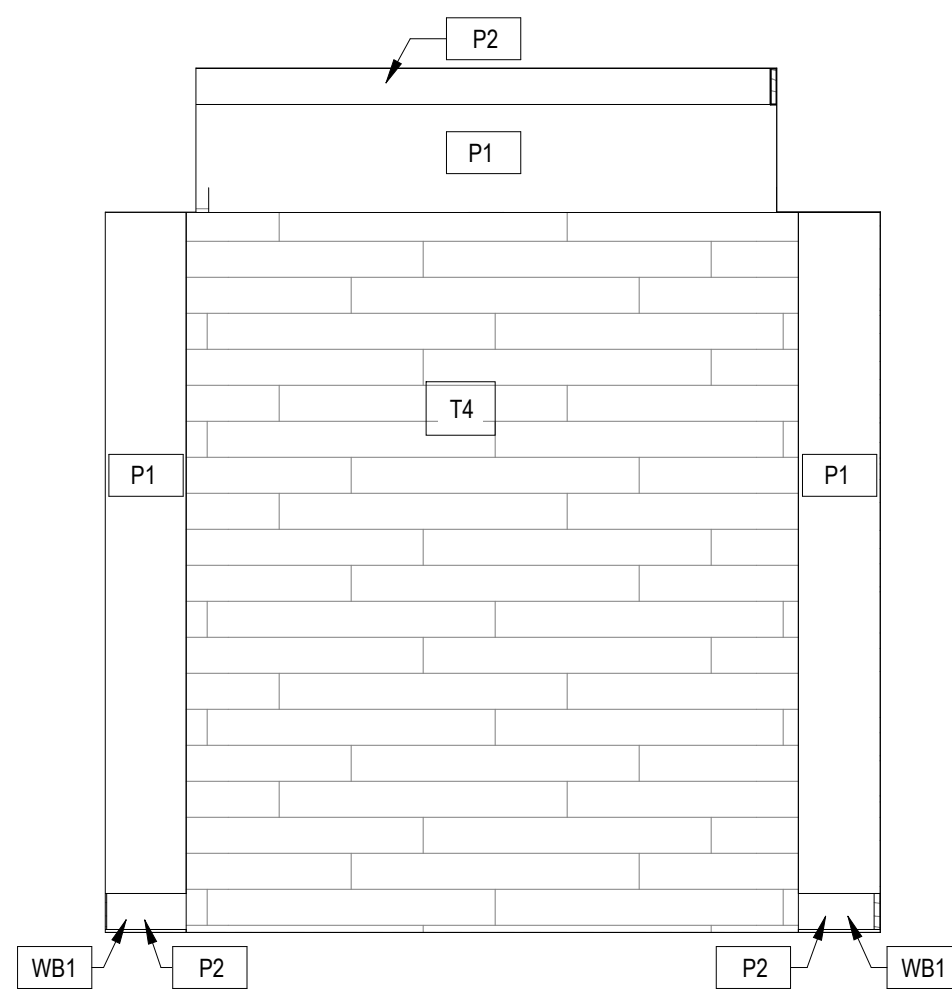
05 Arrangement 126
3/8" = 1'-0"



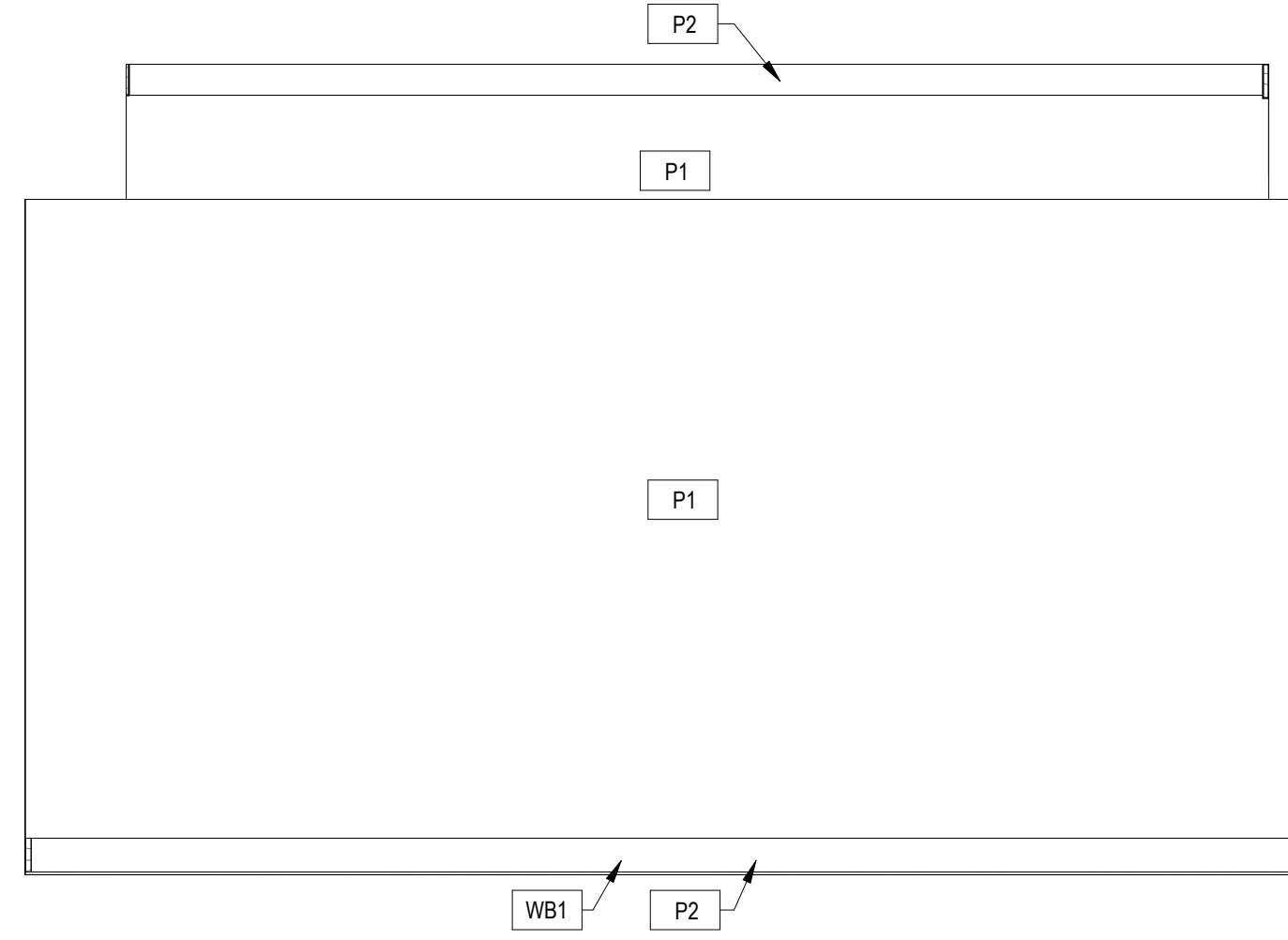
04 Basic Venue
3/8" = 1'-0"



03 Basic Venue
3/8" = 1'-0"



02 Basic Venue
3/8" = 1'-0"



01 Basic Venue
3/8" = 1'-0"



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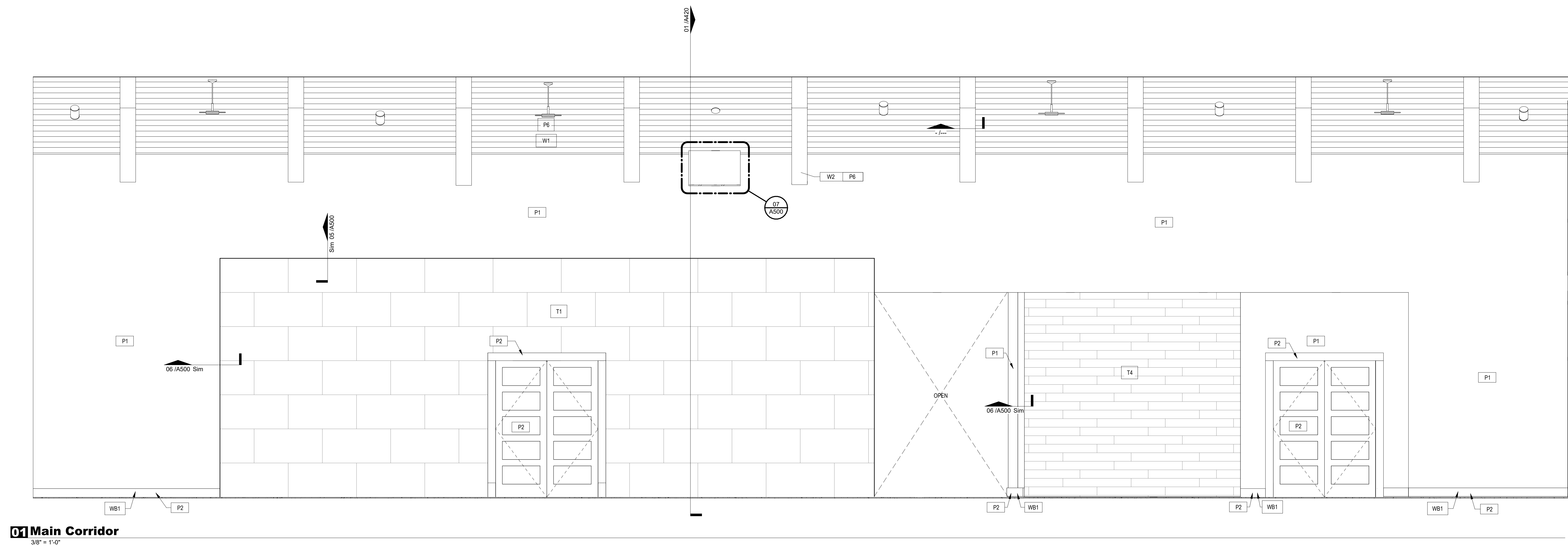
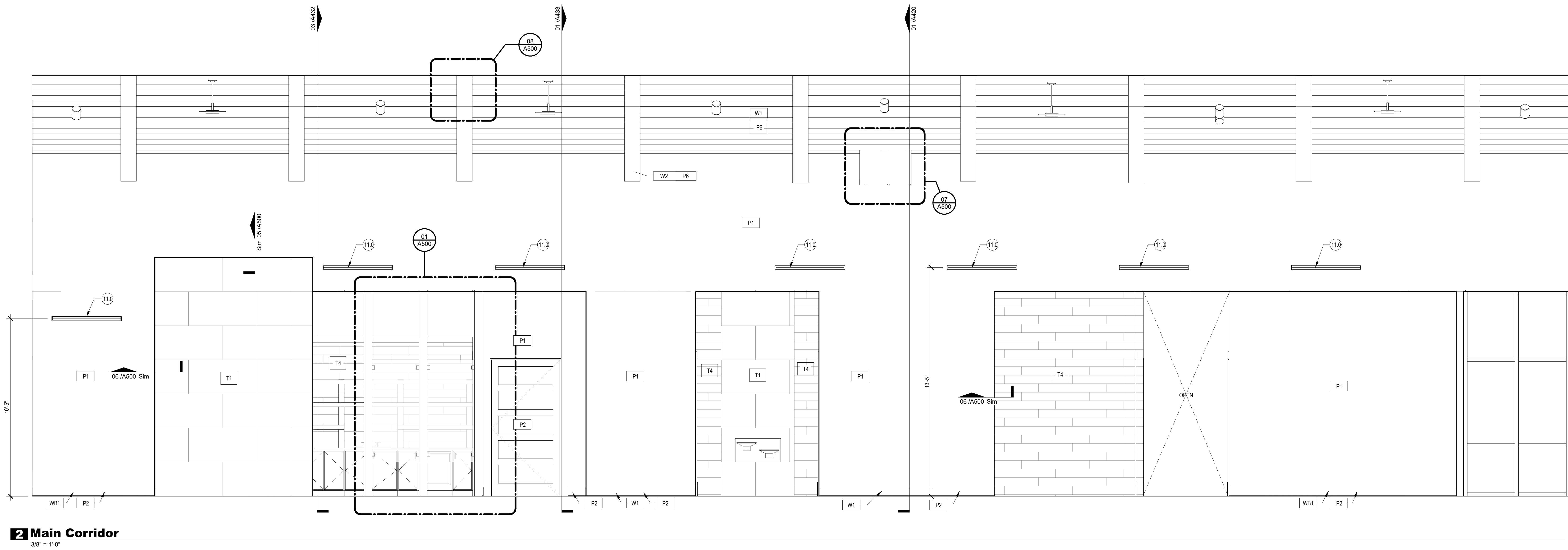
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Leander, TX 78841

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Interior Elevations

Project Number: 220502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration Nos.: TX PE Firm F-12223, TX 25488, LA 6413 MI:
1301069591, NV 6252, NC: 14883, OH: ARC-1917885

Date:	Description:
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Interior Elevations

Project Number: 230502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration Nos.: TX PE Firm F-2223, TX 25489, LA 6413 MI,
1301069591, NV 6252, NC: 14885, OH: ARC-1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev 1 Permit Set

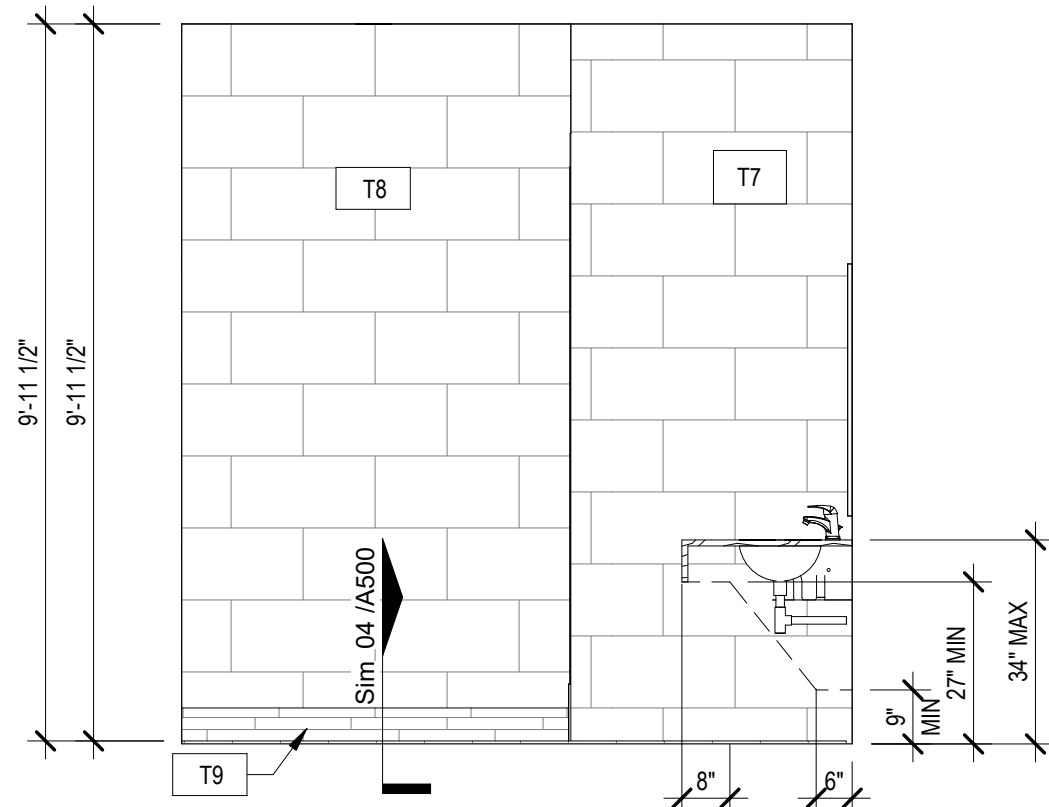
A413



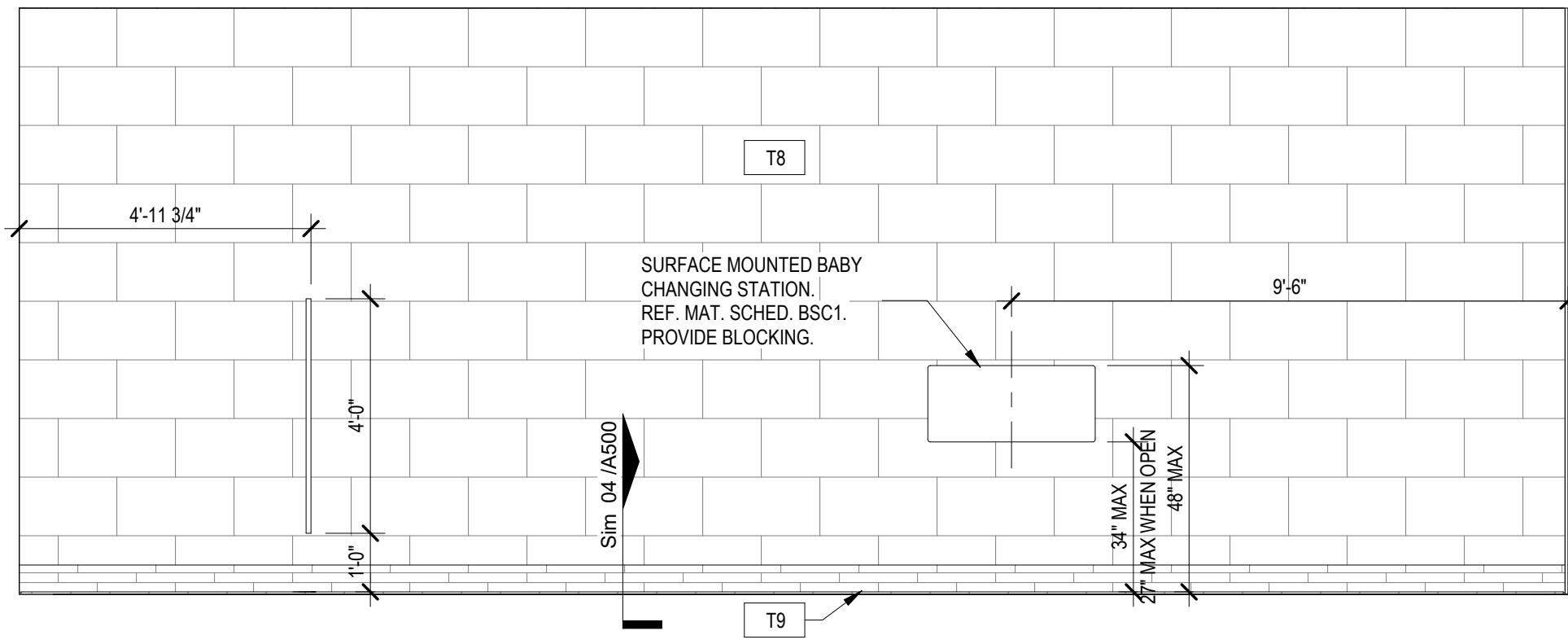
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Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78841

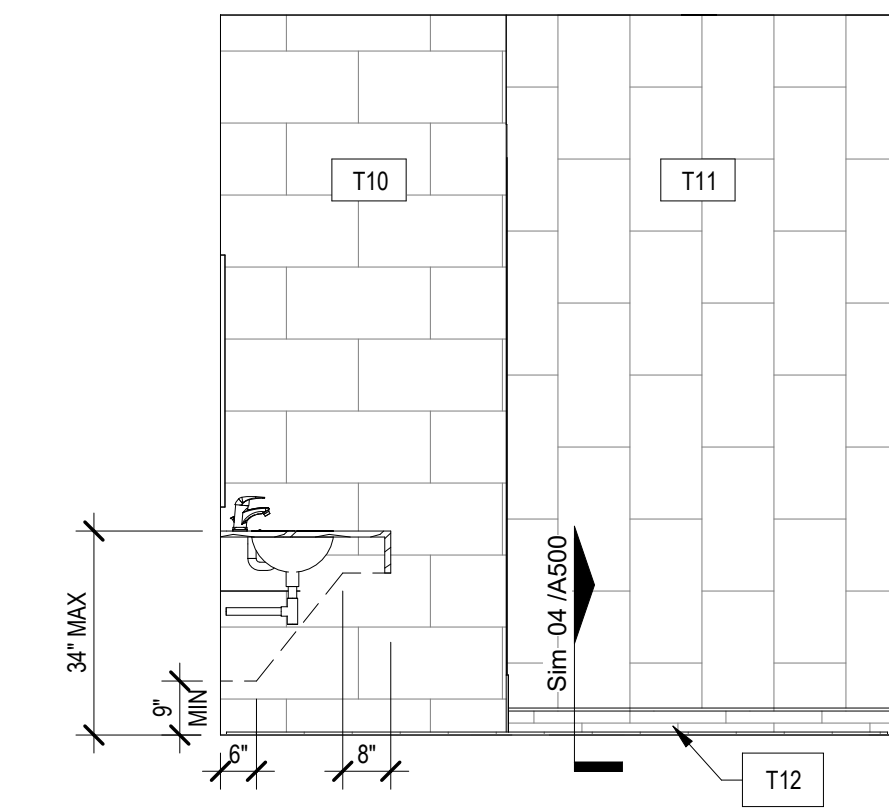
Date:	Description:
06/07/24	CD Set
10/25/24	Rev1 Permit Set



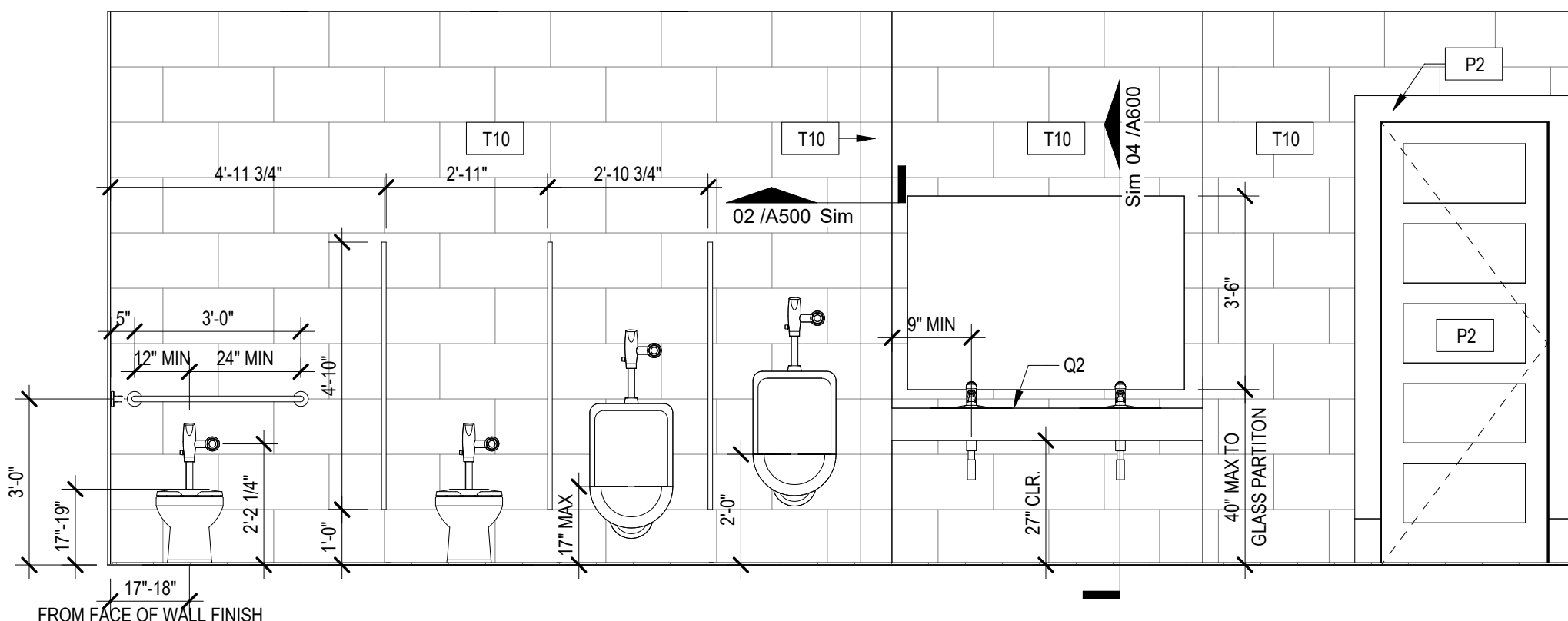
08 Women's R.R.
3/8" = 1'-0"



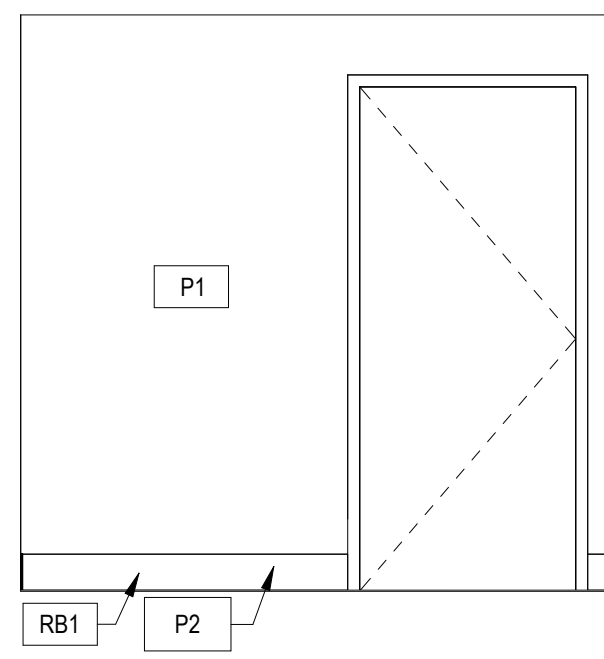
07 Women's Restroom
3/8" = 1'-0"



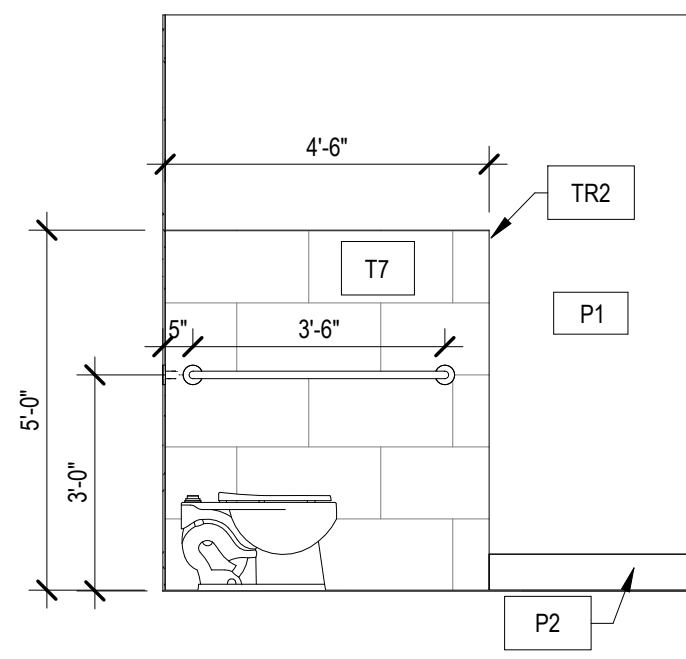
04 MENS 03
3/8" = 1'-0"



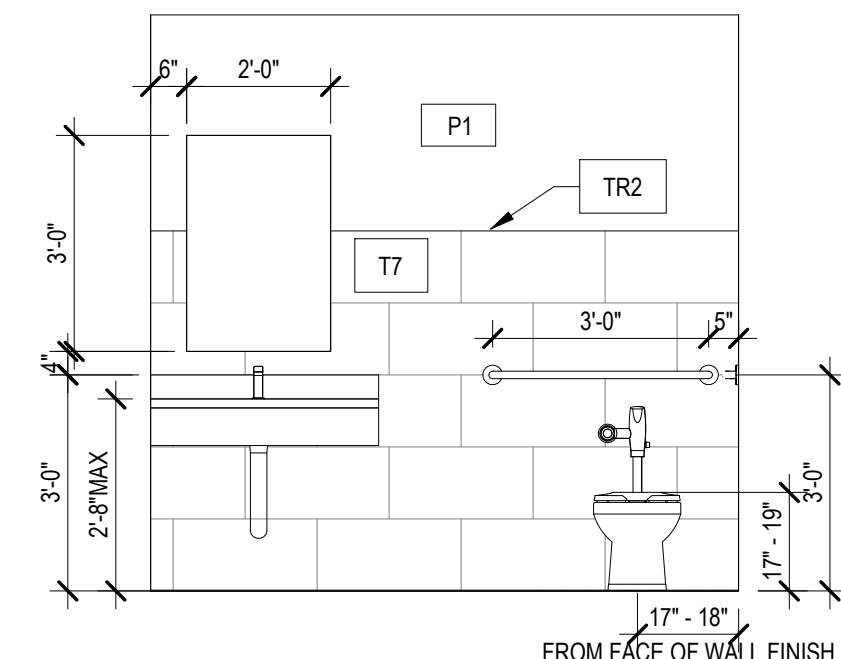
08 Mens Restroom
3/8" = 1'-0"



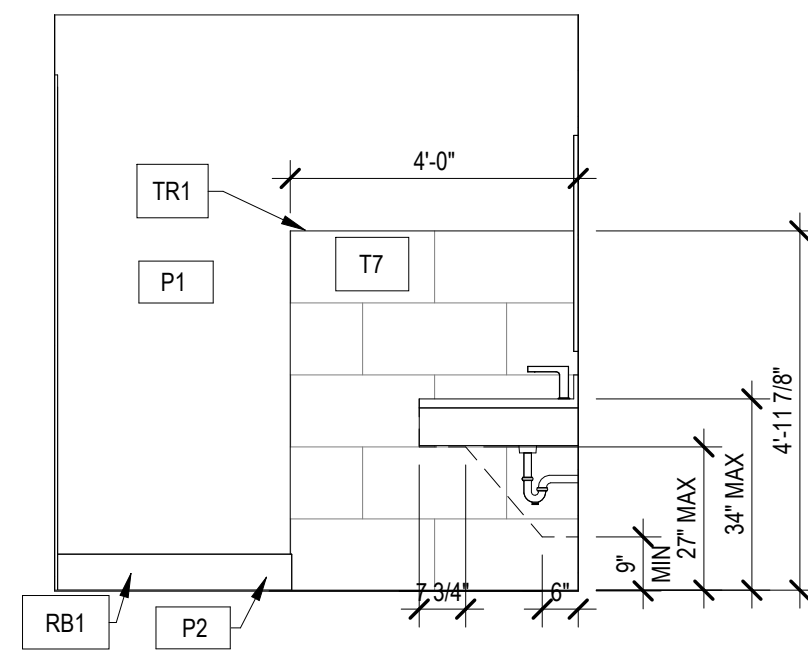
12 Unisex Restroom
3/8" = 1'-0"



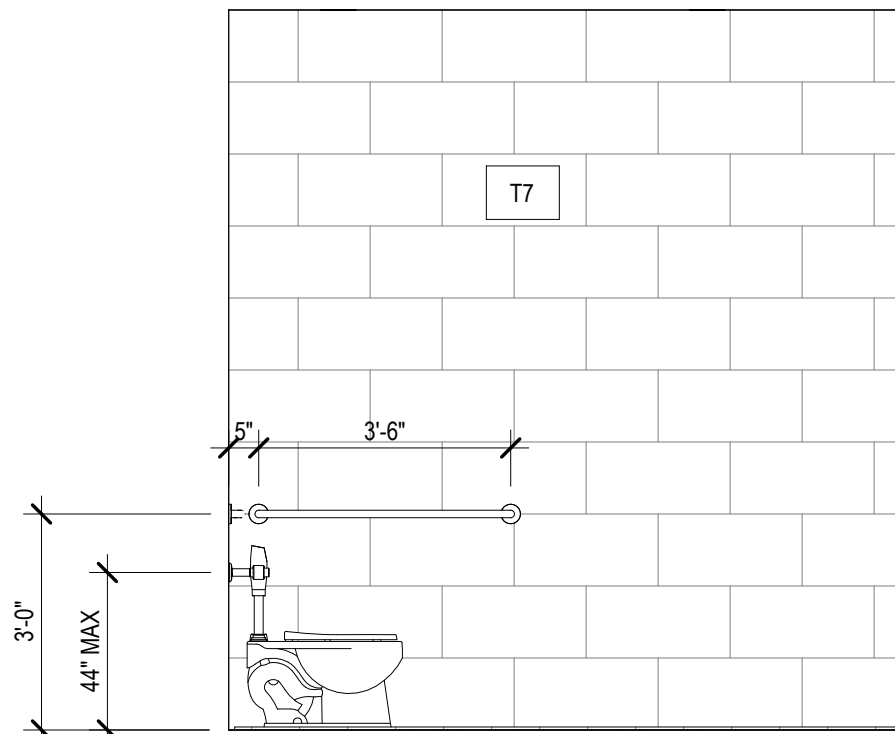
11 Unisex Restroom
3/8" = 1'-0"



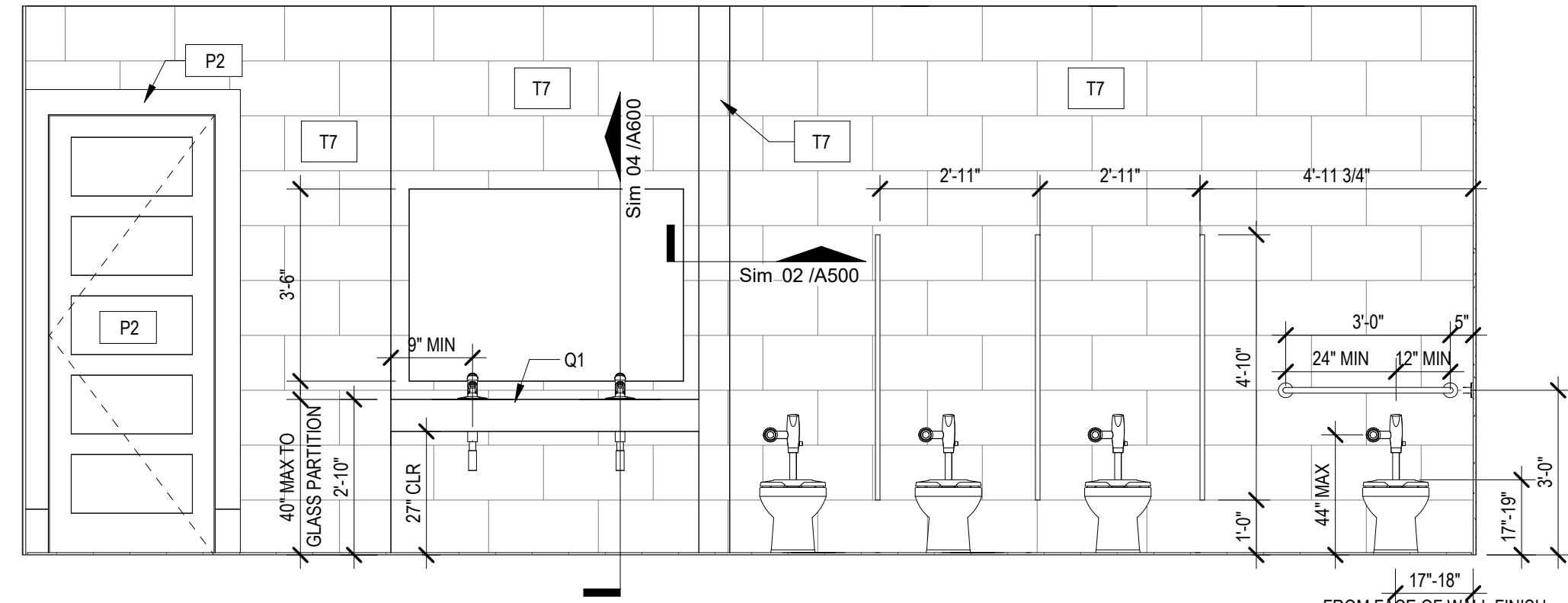
10 Unisex Restroom
3/8" = 1'-0"



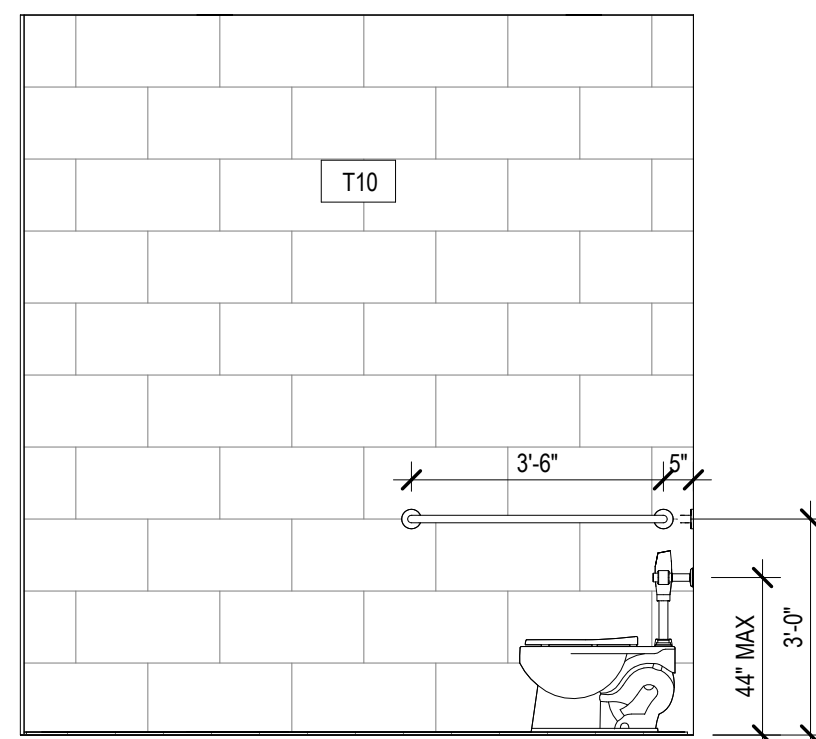
09 Unisex Restroom
3/8" = 1'-0"



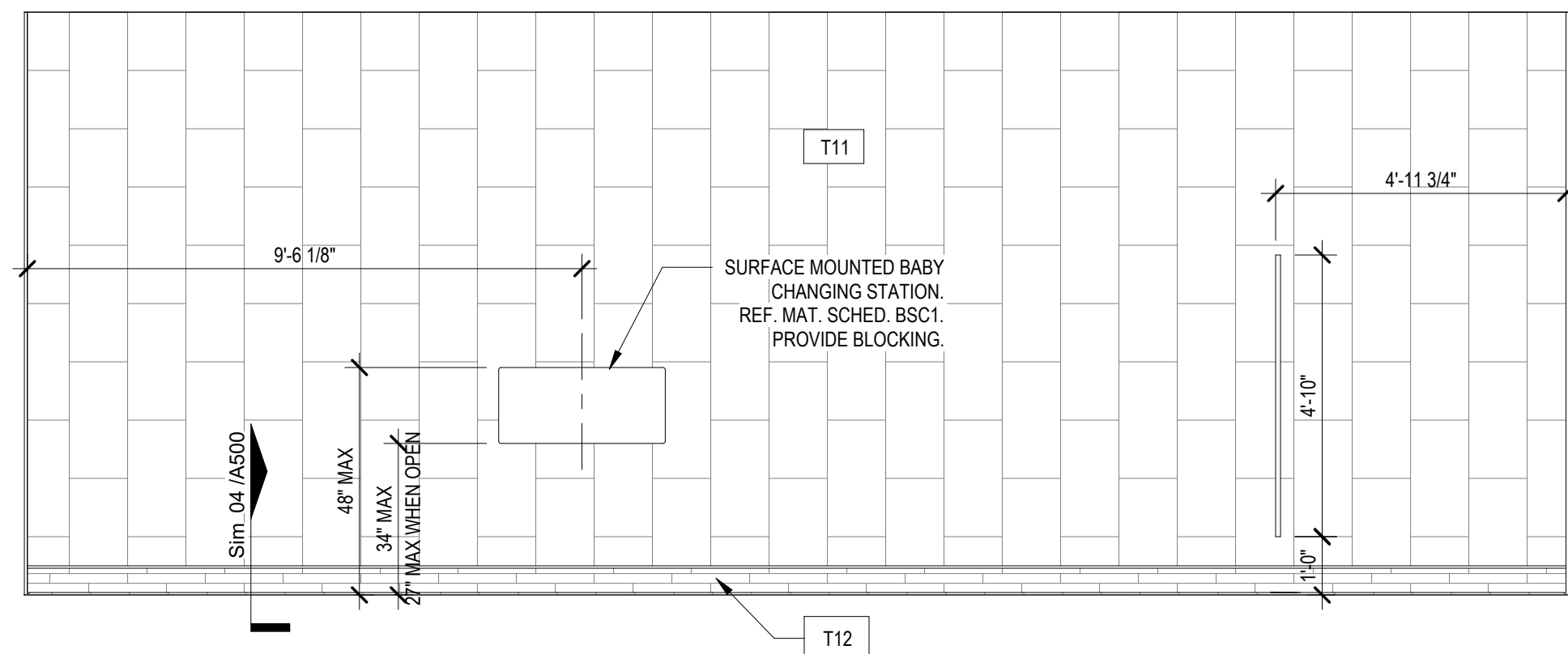
06 Women's R.R 1
3/8" = 1'-0"



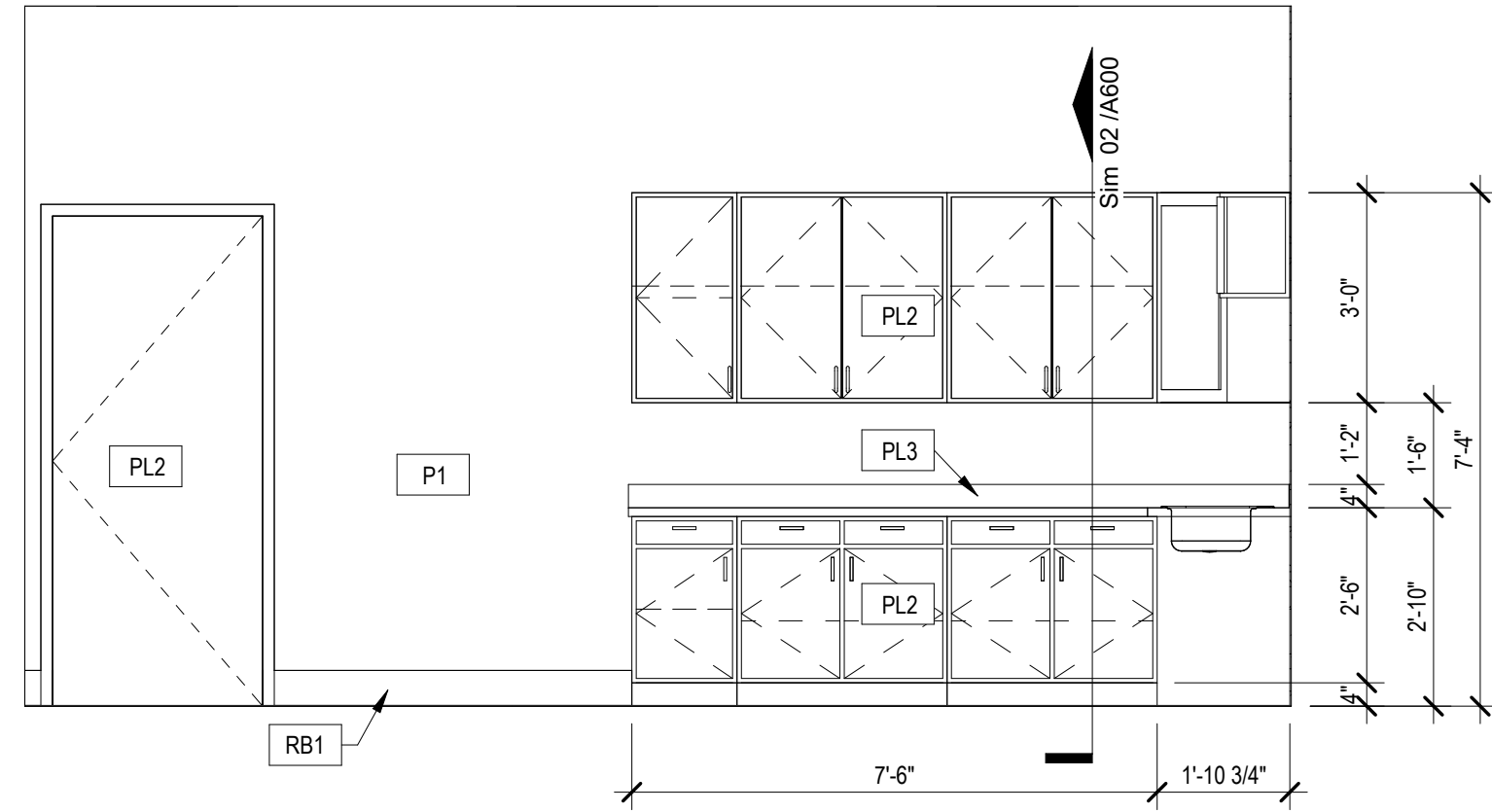
05 Womens Restroom
3/8" = 1'-0"



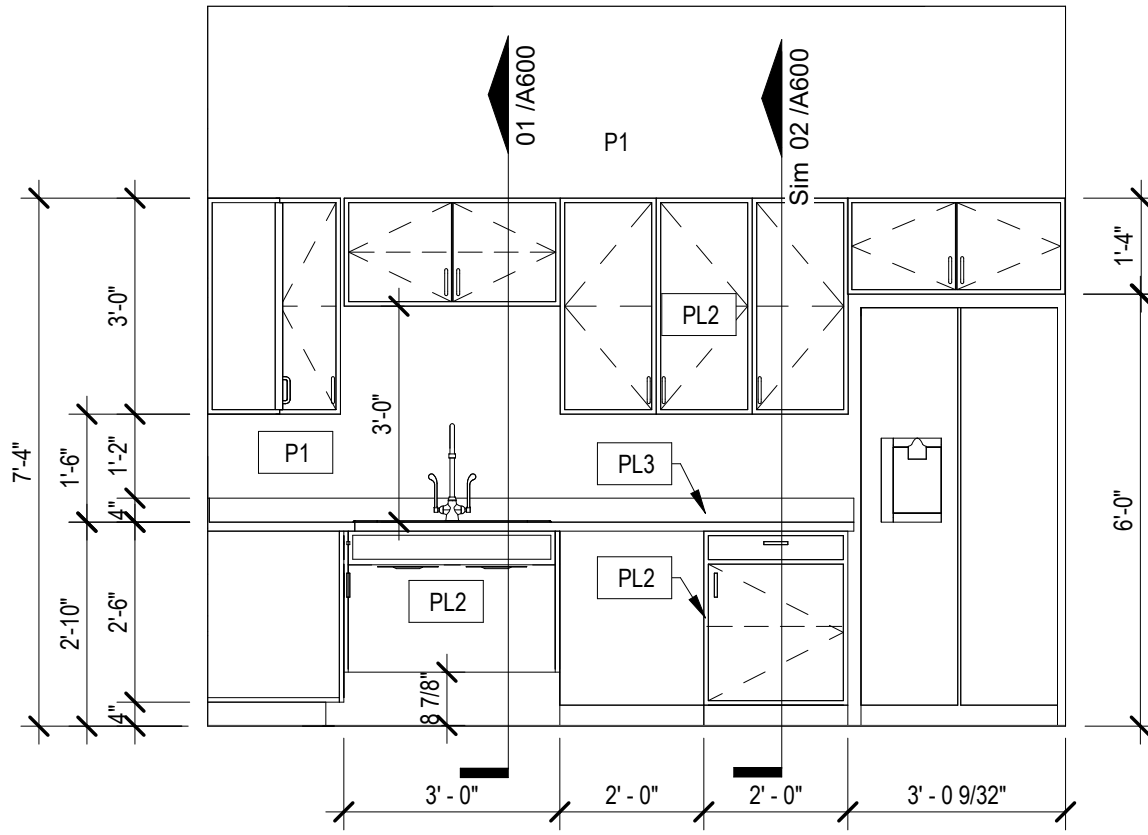
02 Mens Restroom
3/8" = 1'-0"



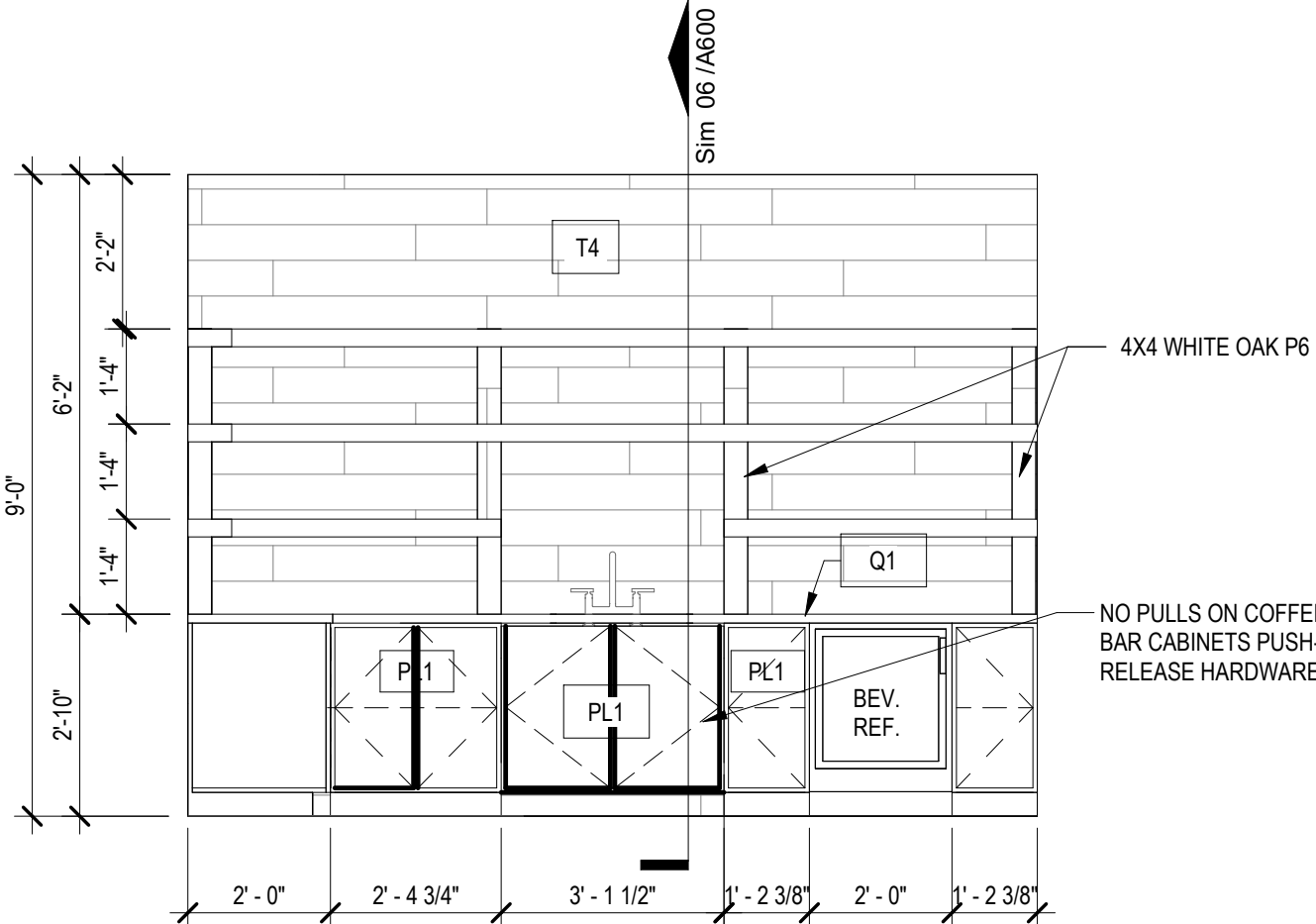
01 Mens Restroom
3/8" = 1'-0"



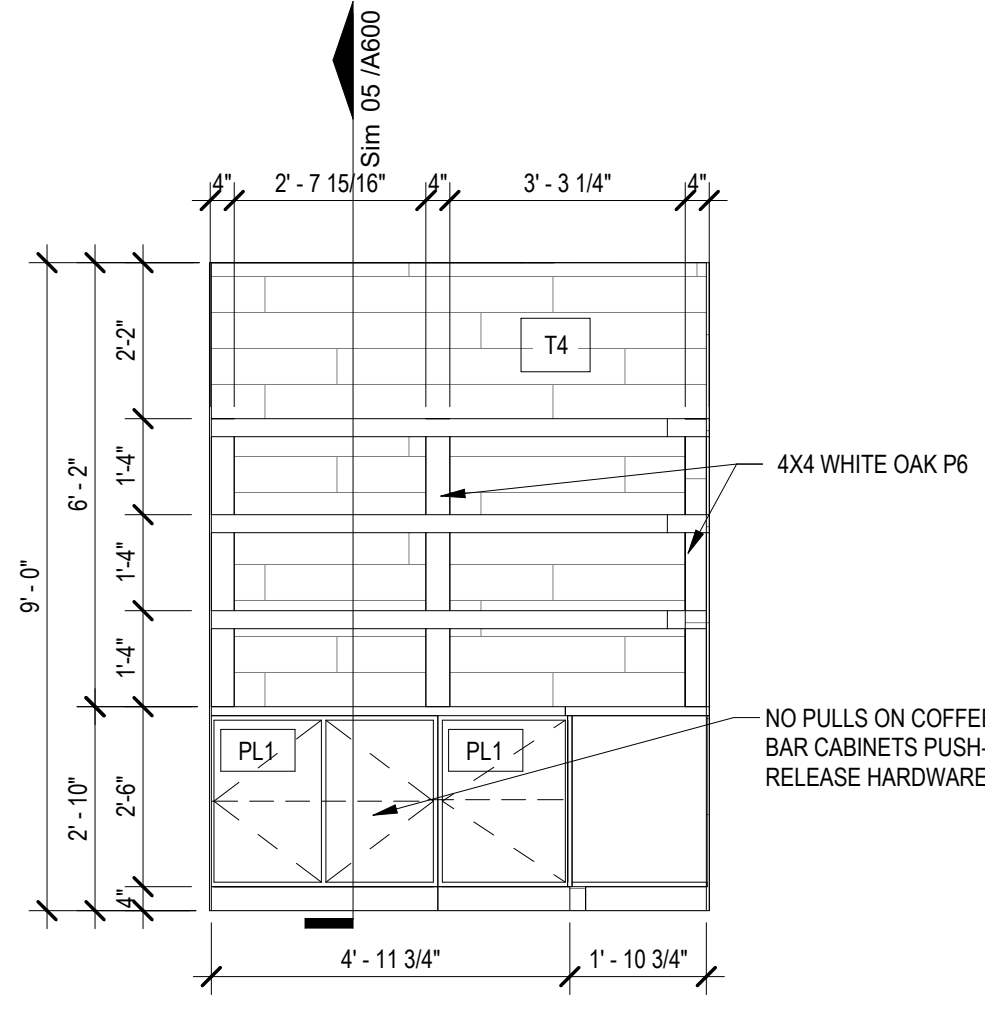
09 Break Room
3/8" = 1'-0"



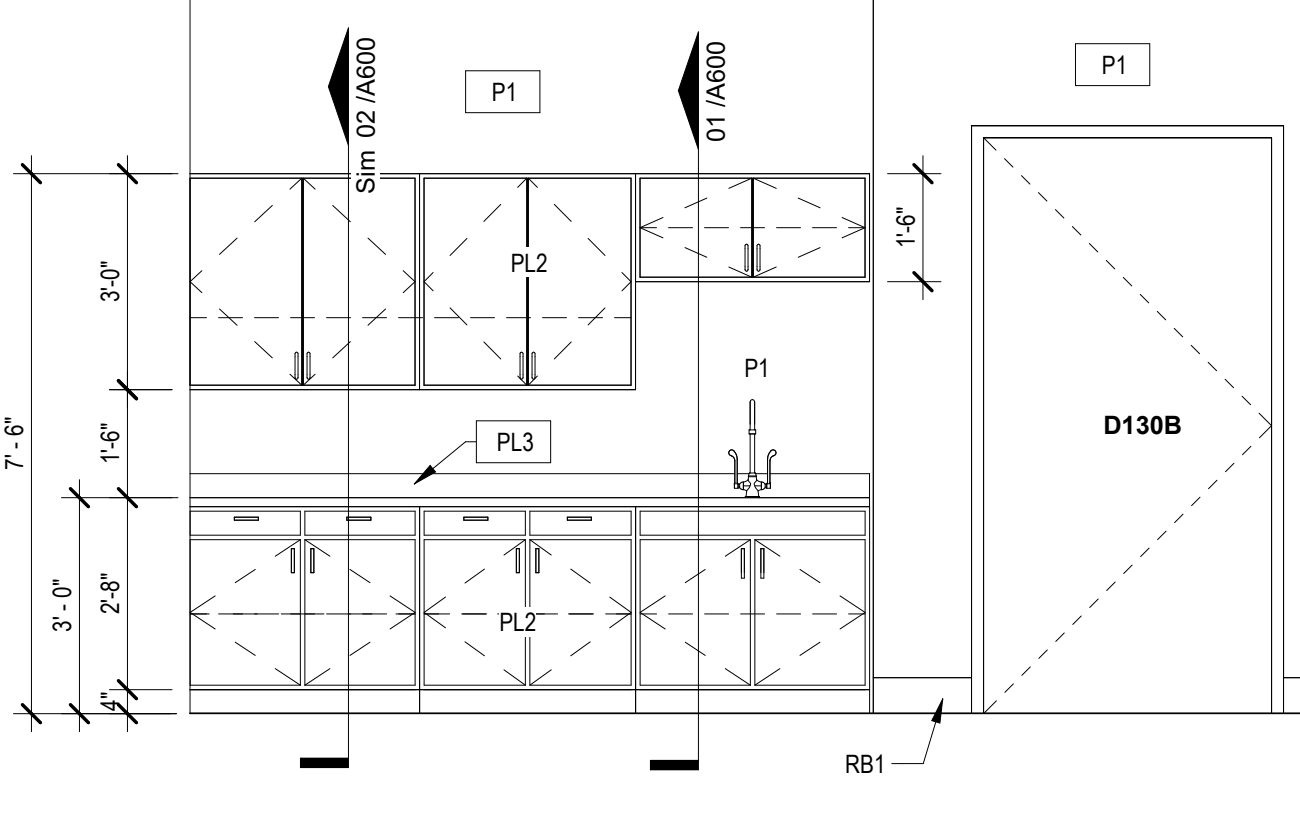
08 Break Room
3/8" = 1'-0"



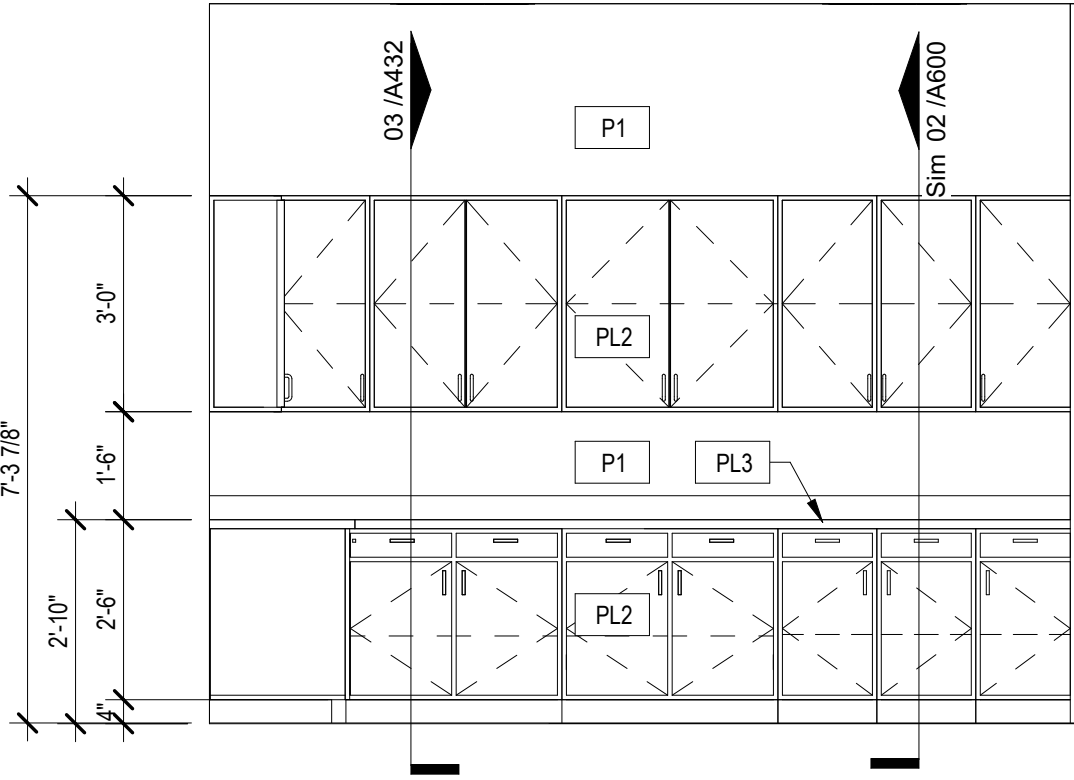
07 Coffee Bar
3/8" = 1'-0"



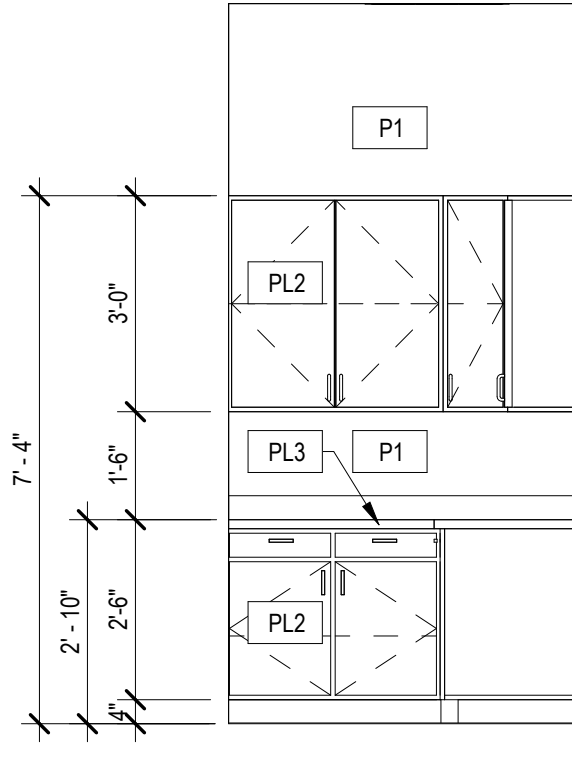
06 Coffee Bar
3/8" = 1'-0"



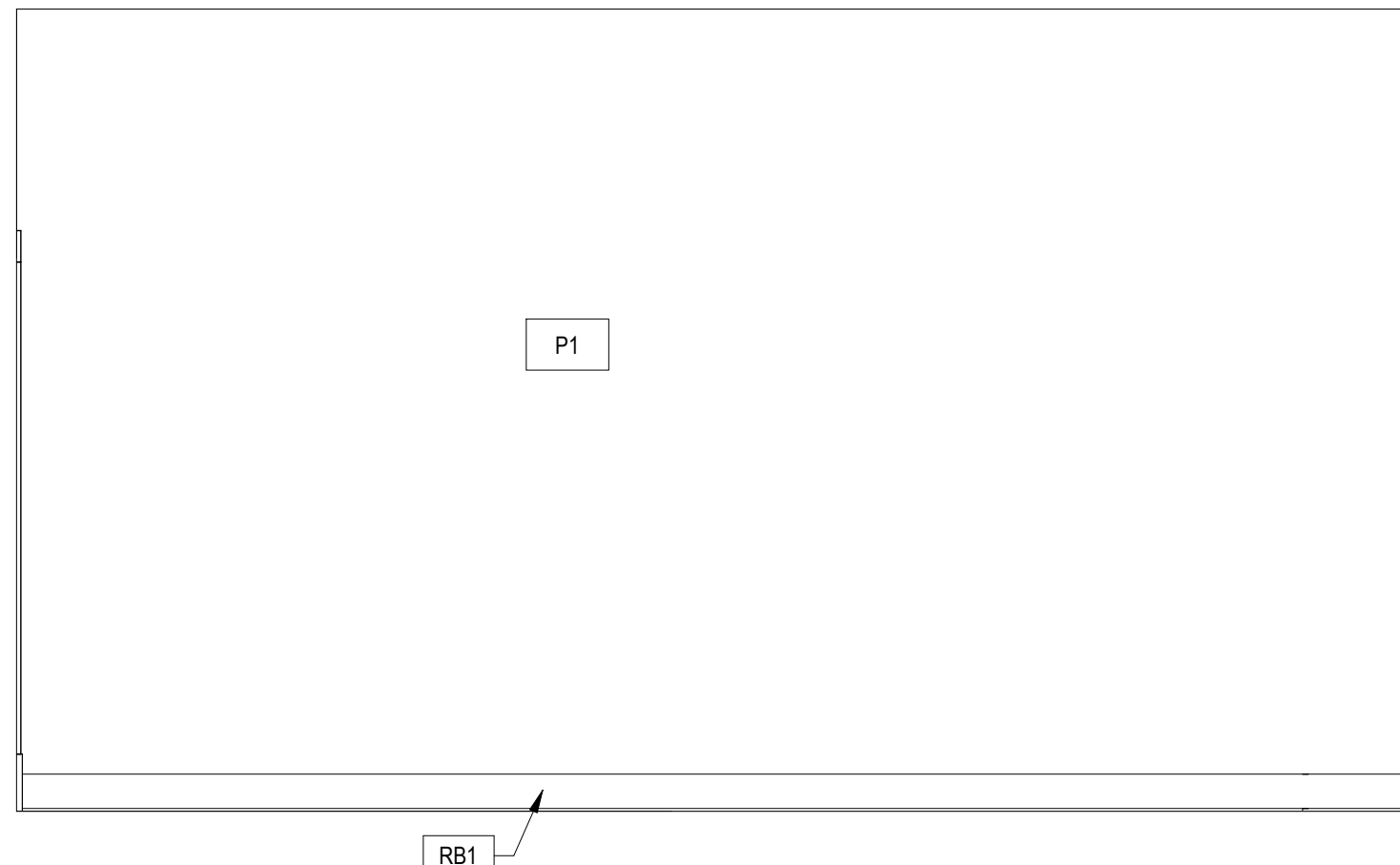
05 Dressing Room
3/8" = 1'-0"



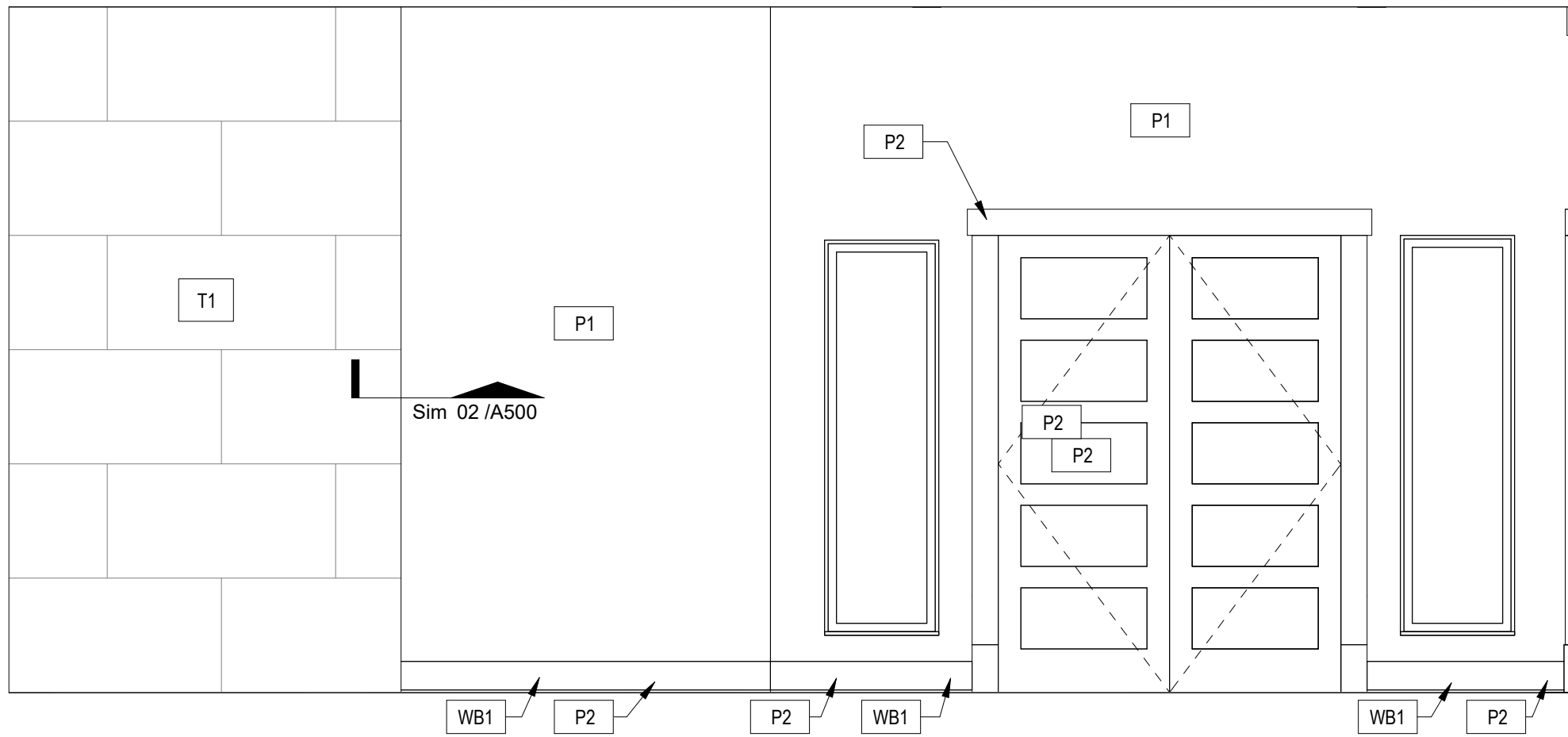
04 Delivery
3/8" = 1'-0"



03 Delivery
3/8" = 1'-0"



02 Corridor
3/8" = 1'-0"



01 Corridor
3/8" = 1'-0"



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Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78841

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FORMS • ENVIRONMENTS • IMAGES

Interior Elevations
Project Number: 230502
N-Vision Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Leander, TX 78841
Registration No.: TX PE Firm F-2223, TX 25489, LA 6413 MI
1301069591, NV 6252, NC 14883, OH AHC 1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev 1 / Permit Set

A415



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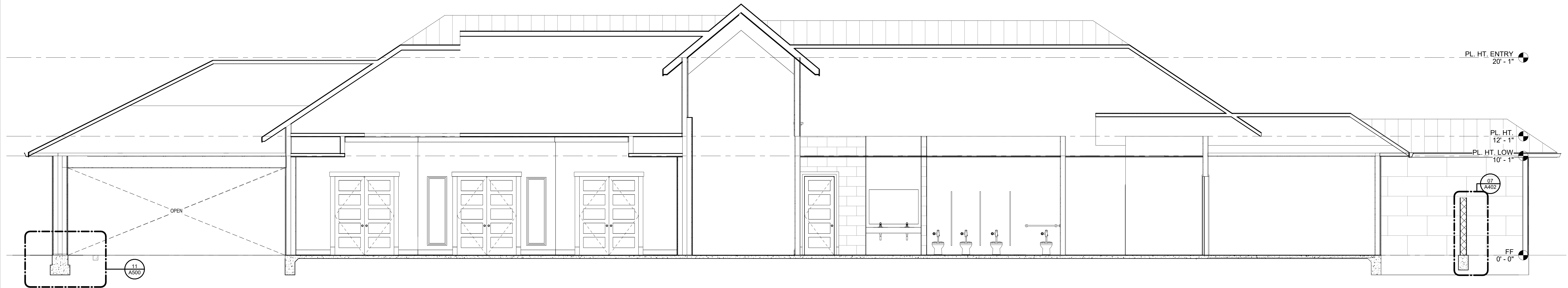
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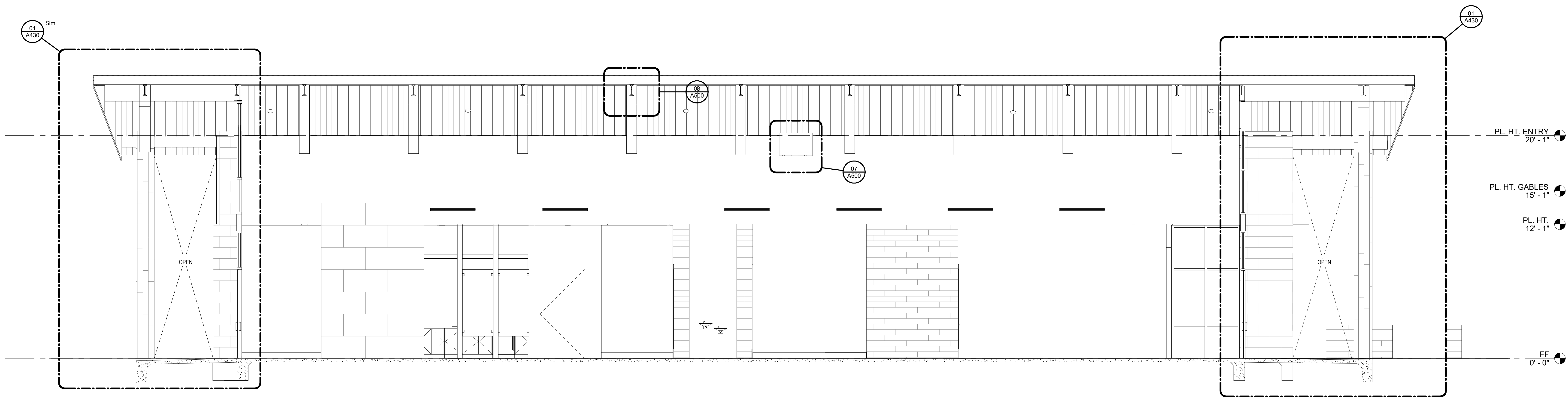
Building Sections
Project Number: 230502
N-VIZION Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration Nos.: TX PE Firm F-1223, TX 25488; LA 6413 MI;
1301069561, NV 6252, NC: 14883, OH: ARC-1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev1 Permit Set

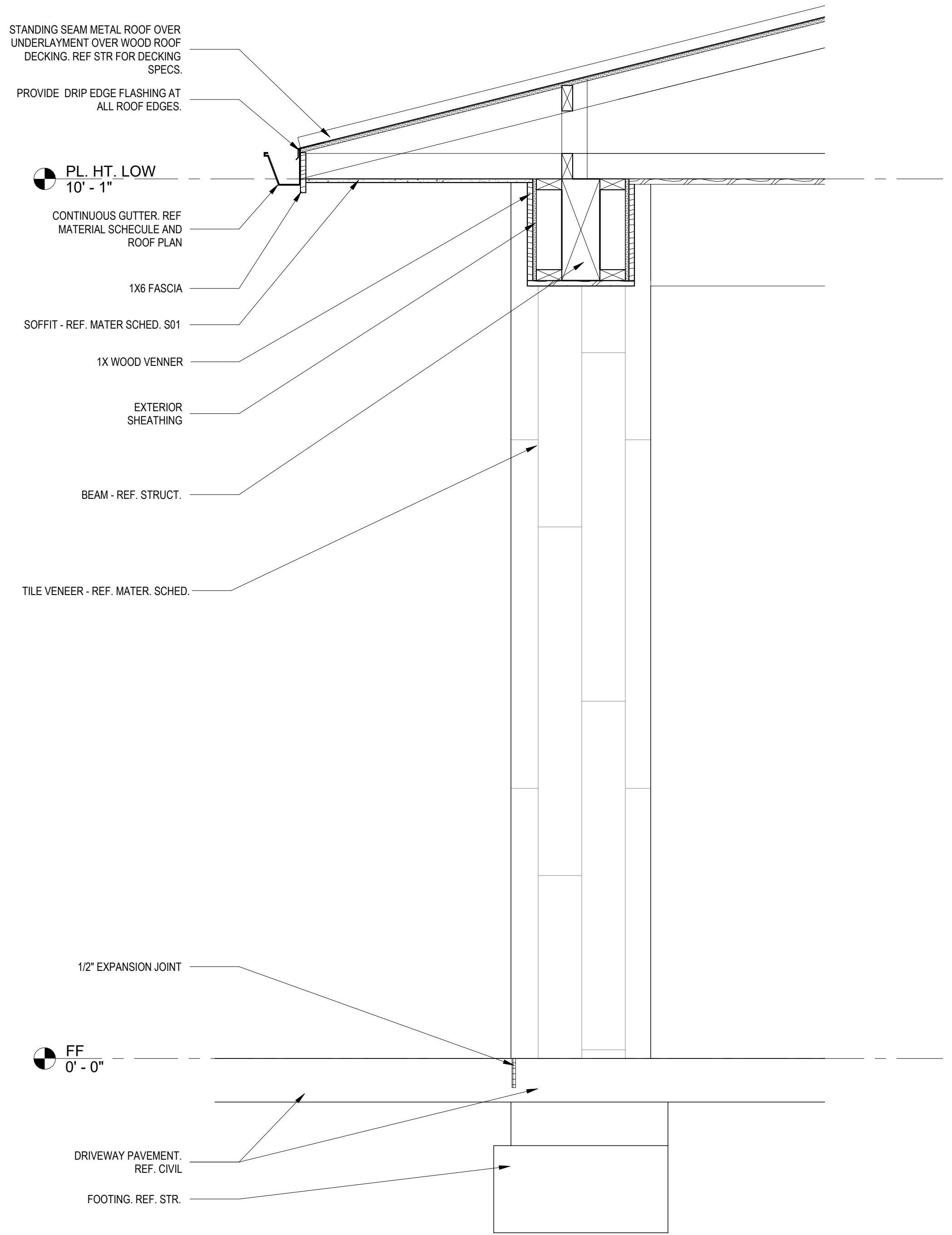
A420



01 Building Section
1/4" = 1'-0"

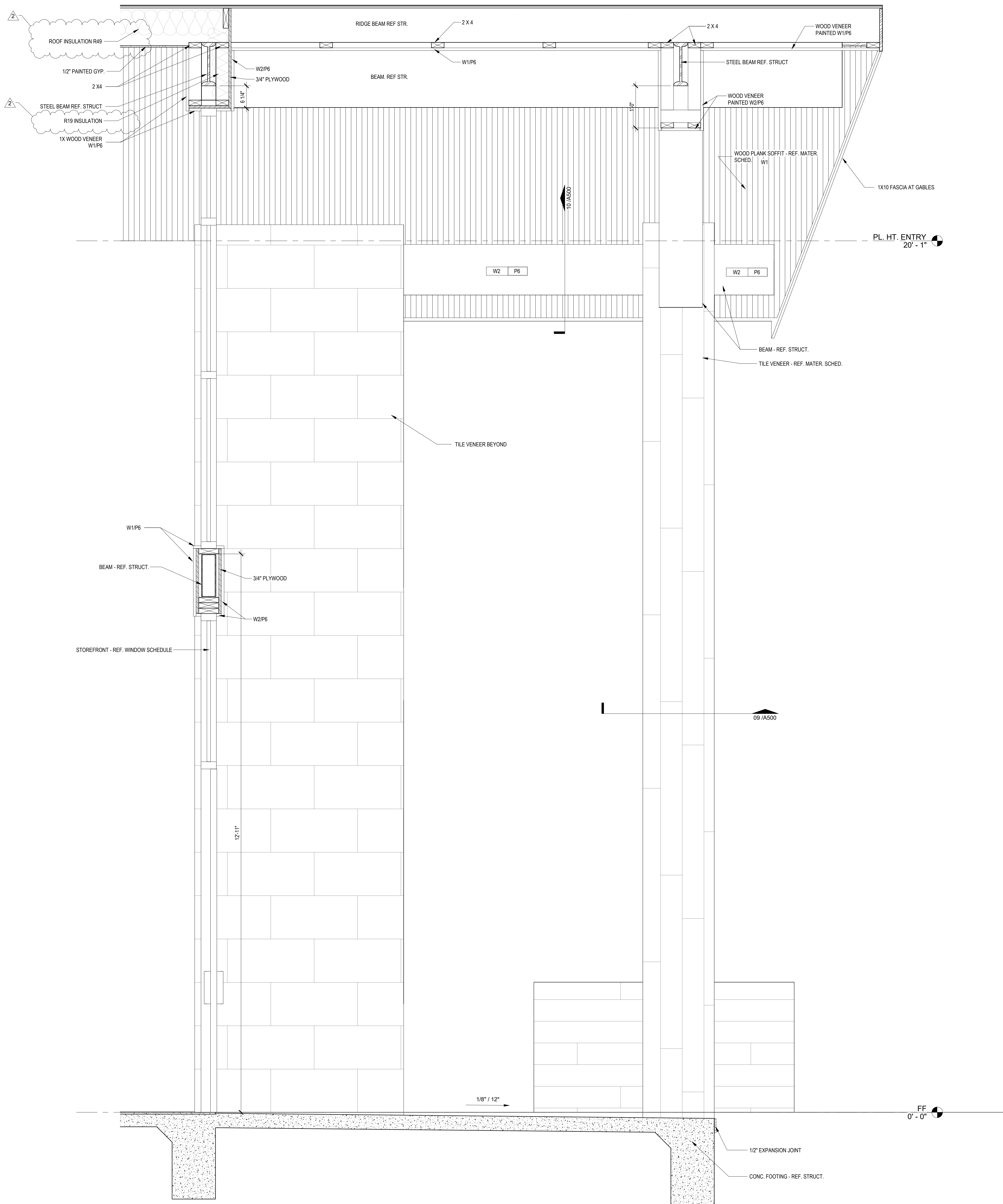


02 Building Section
1/4" = 1'-0"



02 Wall Section

1" = 1'-0"



01 Wall Section

1" = 1'-0"



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Leander, TX 78841

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Wall Sections
Project Number: 220502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration No.: TX PE Firm F-1223, TX-25488, LA 6413 MI
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Date	Description	By	Rev
06/07/24	CD Set	SA	
04/09/25	Rev2 City Comments		

A430



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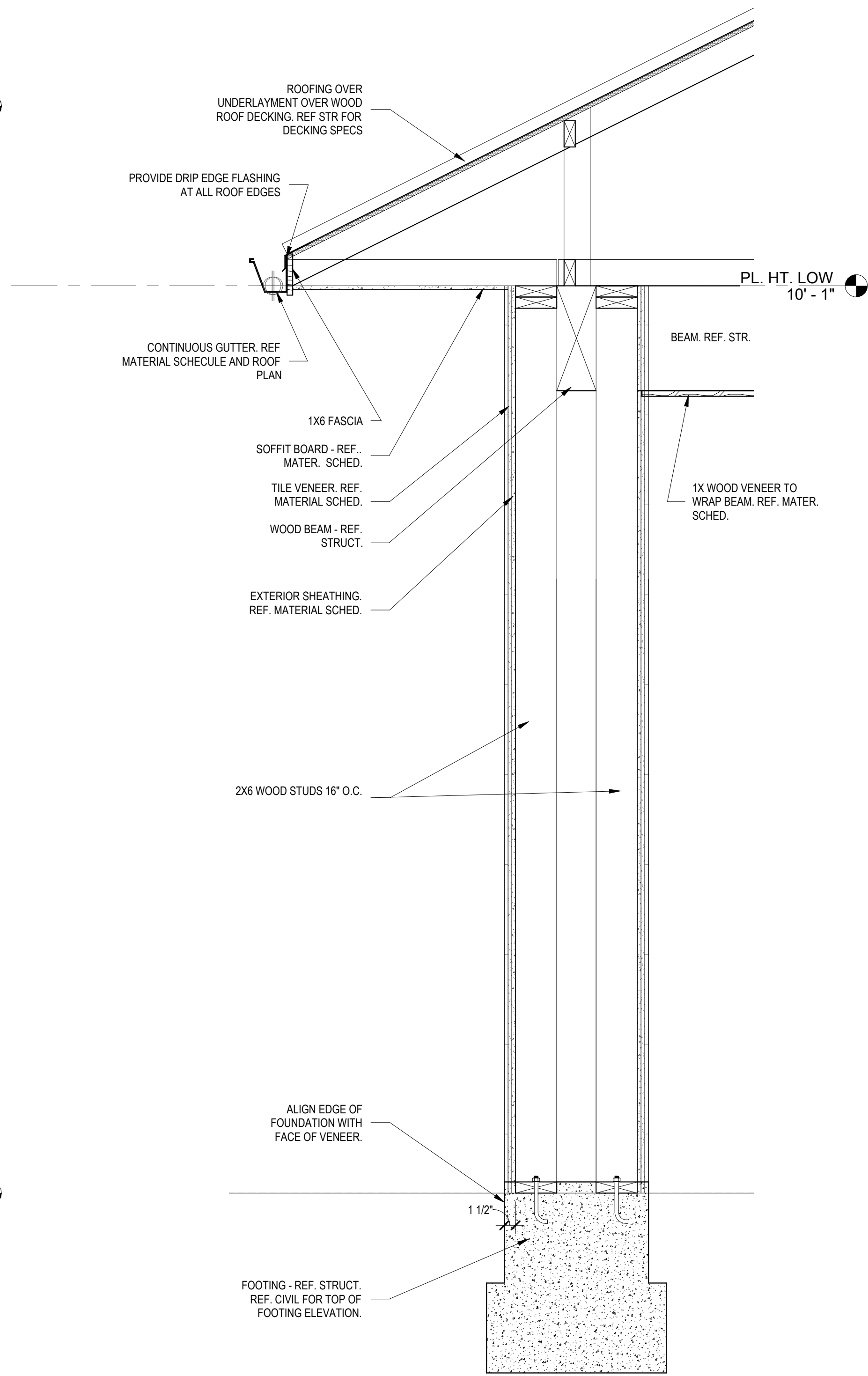
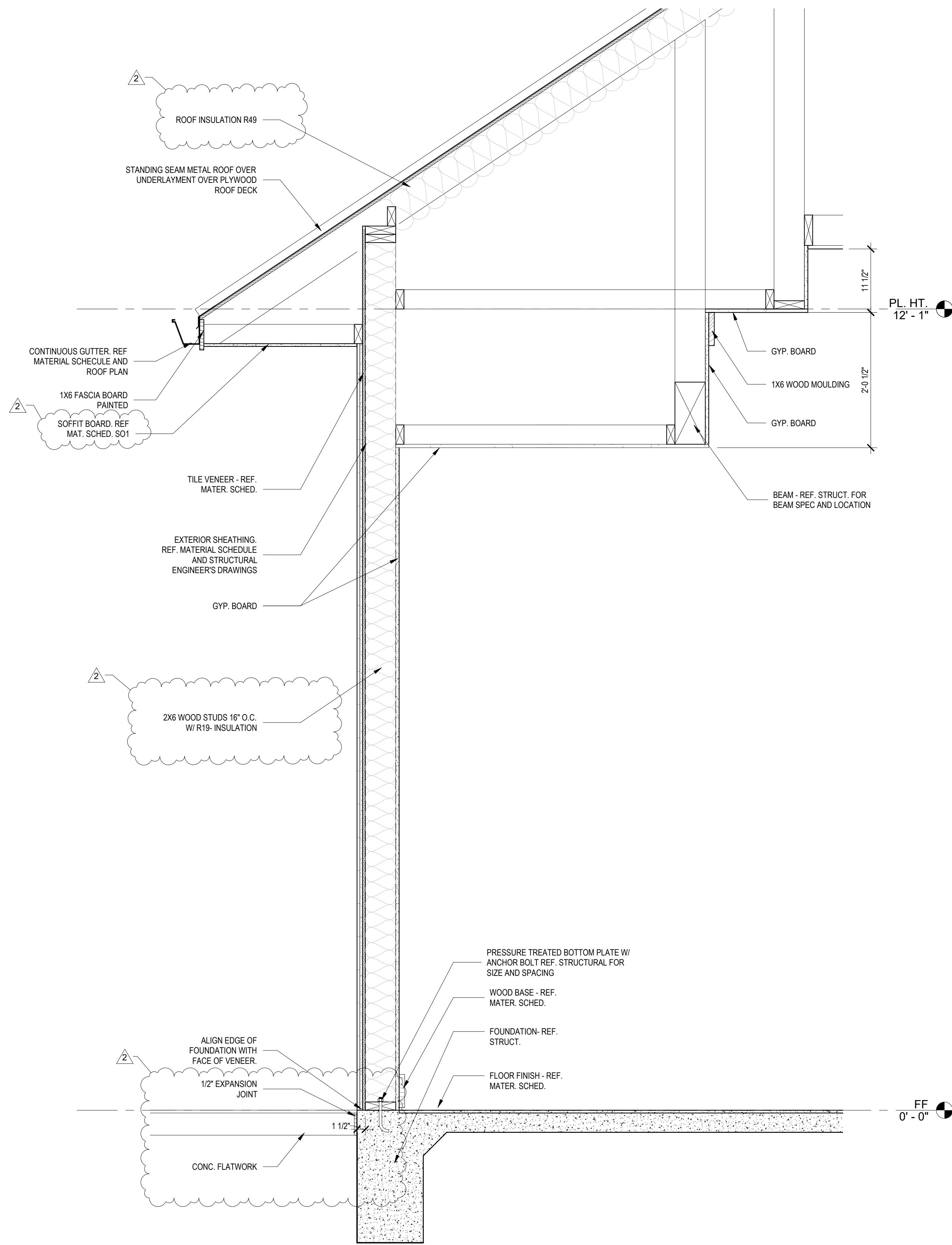
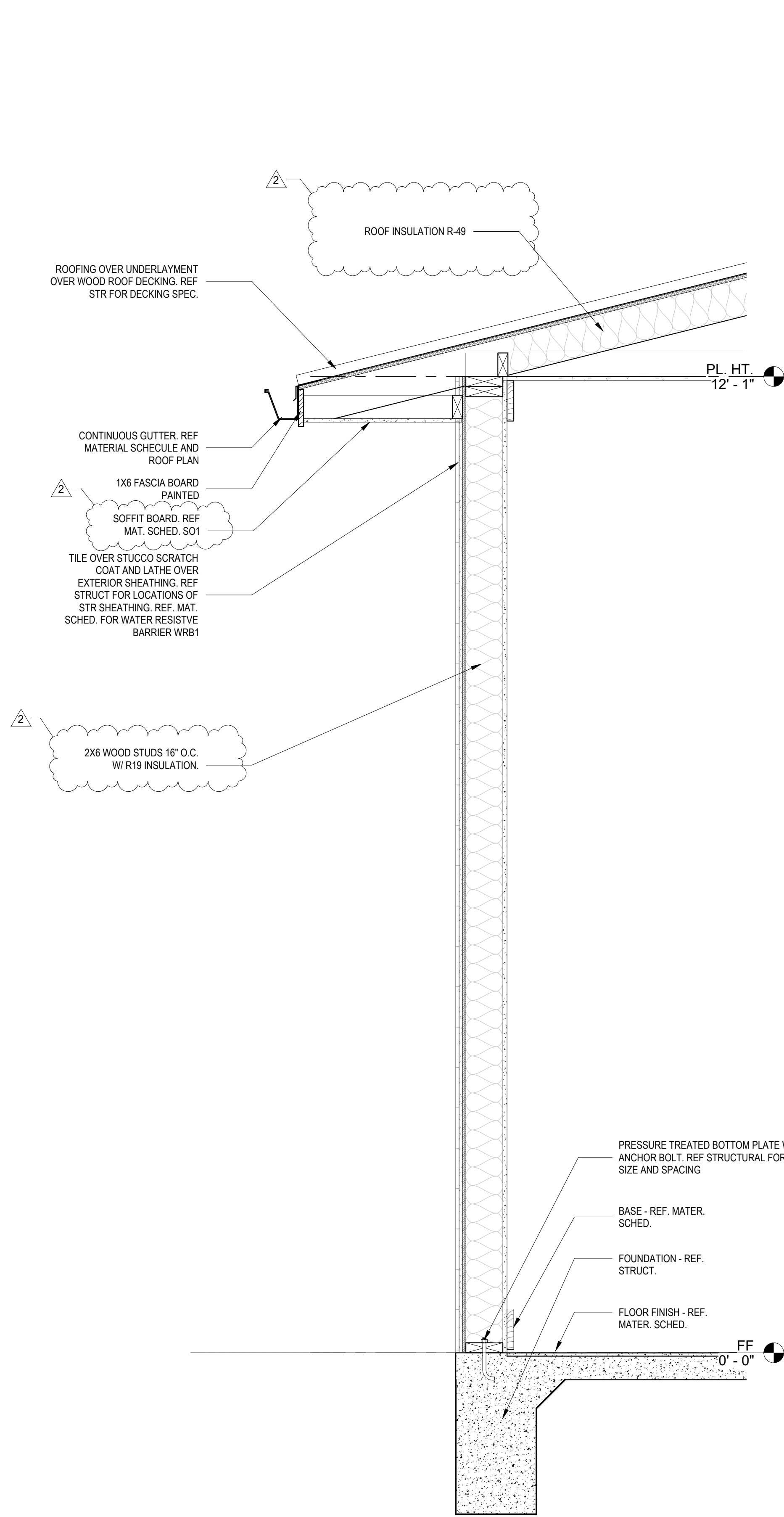
N-VIZION
FORMS - ENVIRONMENTS - IMAGES

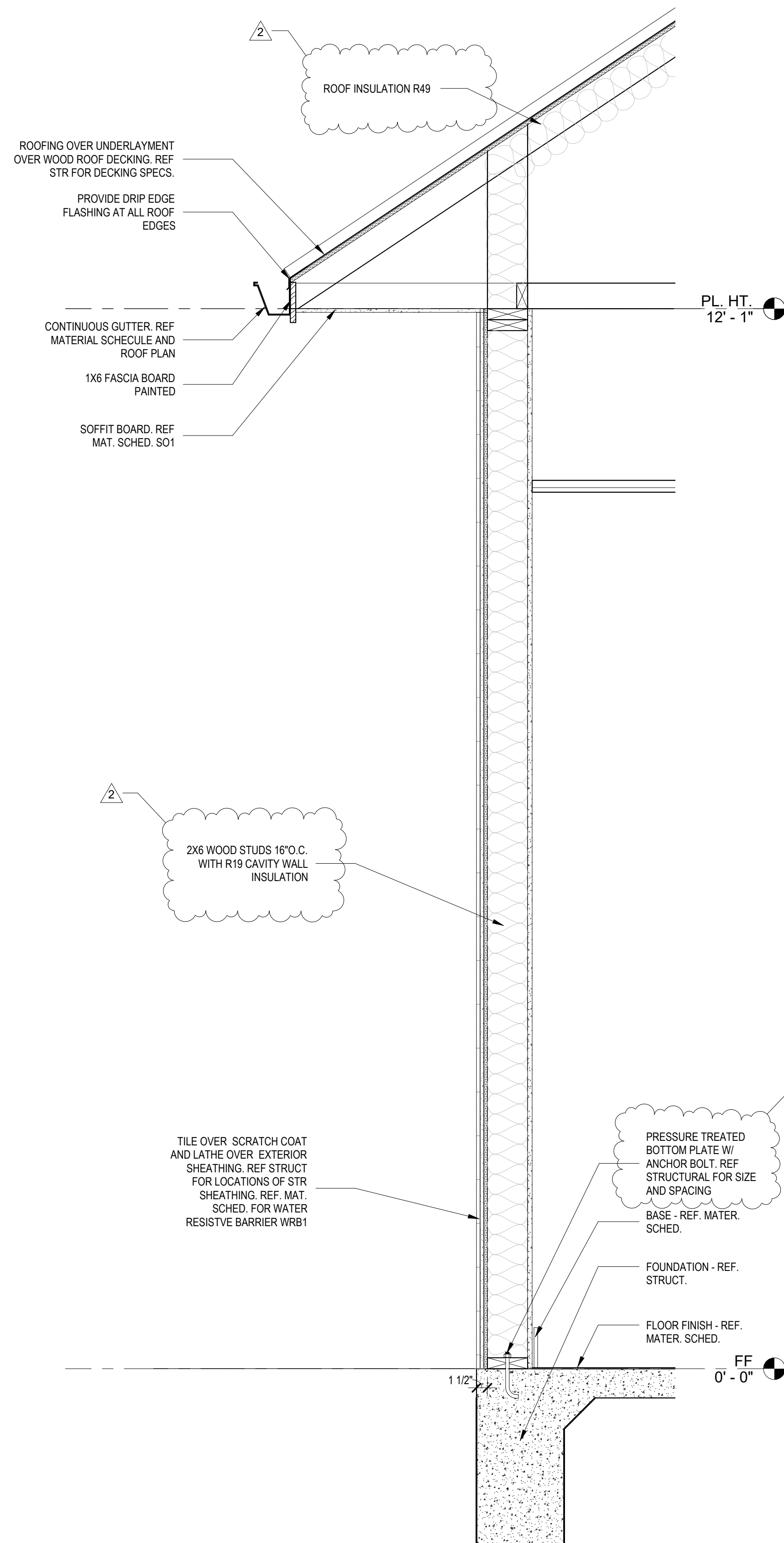
Wall Sections

Project Number: 220502
N-VIZION Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-2223, TX 25489, LA 9413 MI;
1301069591, NV 6252, NC: 14883, OH: ARC-1917885

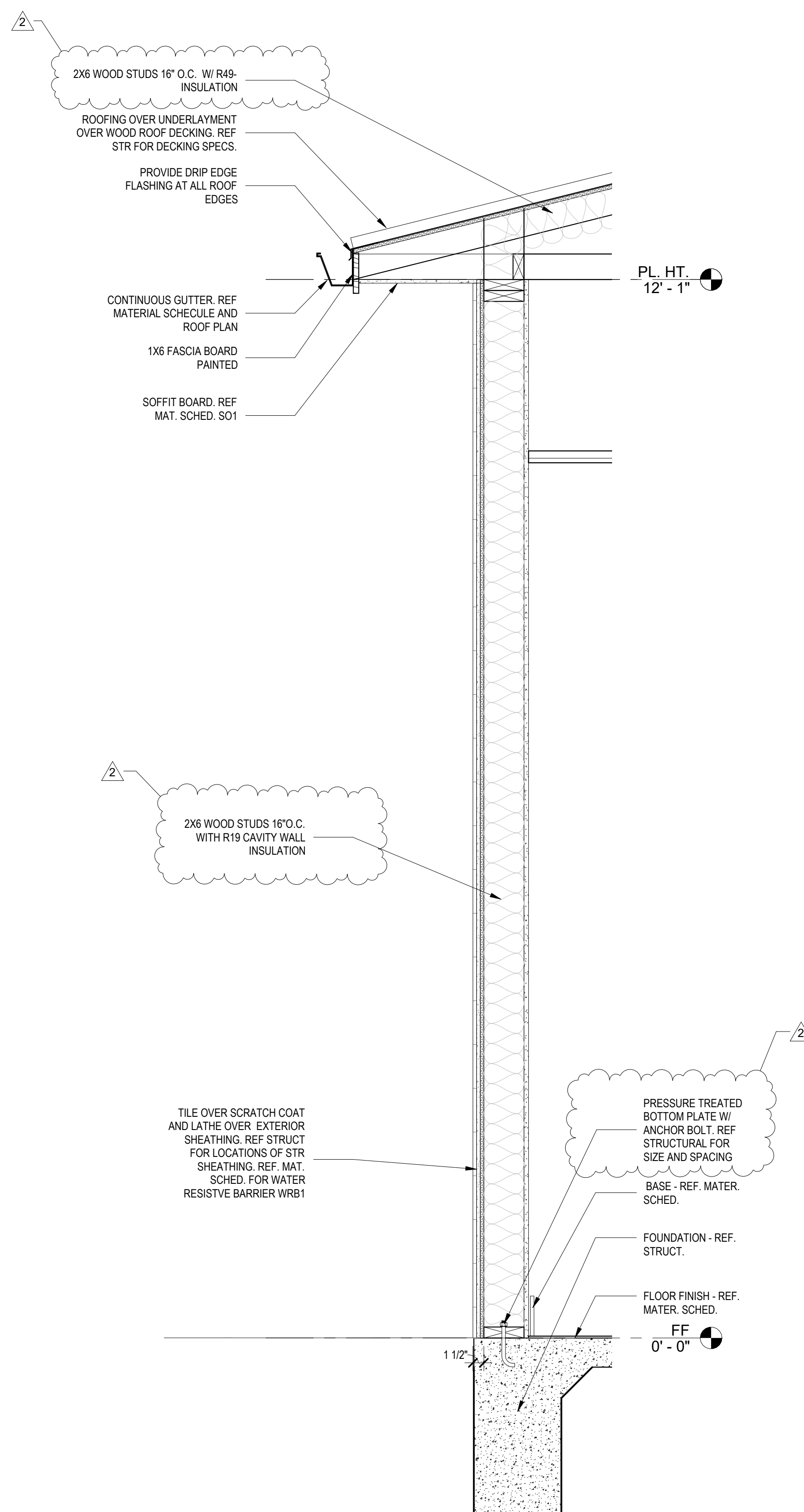
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06/07/24	CD Set
06/20/25	Rev'd City Comments
06/20/25	Rev'd City Comments

A431

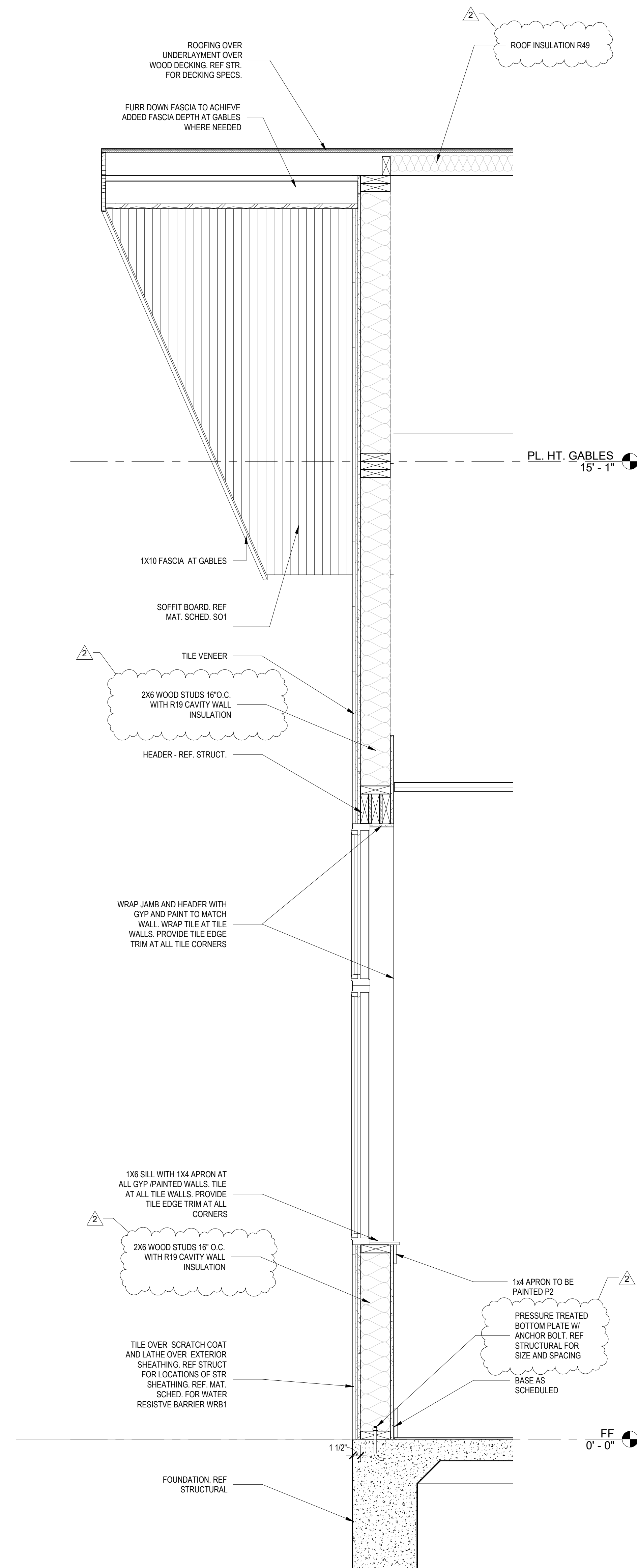




03 Wall Section
1" = 1'-0"



02 Wall Section
1" = 1'-0"



01 Wall Section
1" = 1'-0"



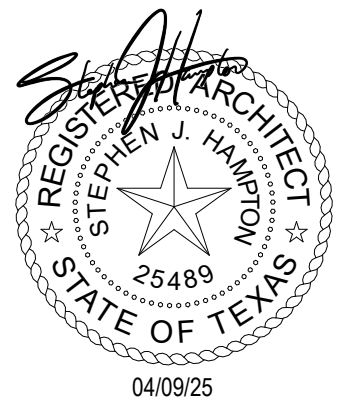
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301 S. Bagdad Rd.
Leander, TX 78841

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FORMS - ENVIRONMENTS - IMAGES

Wall Sections
Project Number: 230502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-2223, TX 25489, LA 9413 MI;
1310069591, NV 6252, NC: 14885, OH: ARC 1917885

Date	Description	By	Check
06/07/24	CD Set	WCF	
04/09/25	Reviz City Comments		

A432



WEED CORLEY FISH ARCHITECTS
301 S. Bagdad Rd.
Leander, TX 78641
512.255.1111
www.weedcorleyfish.com

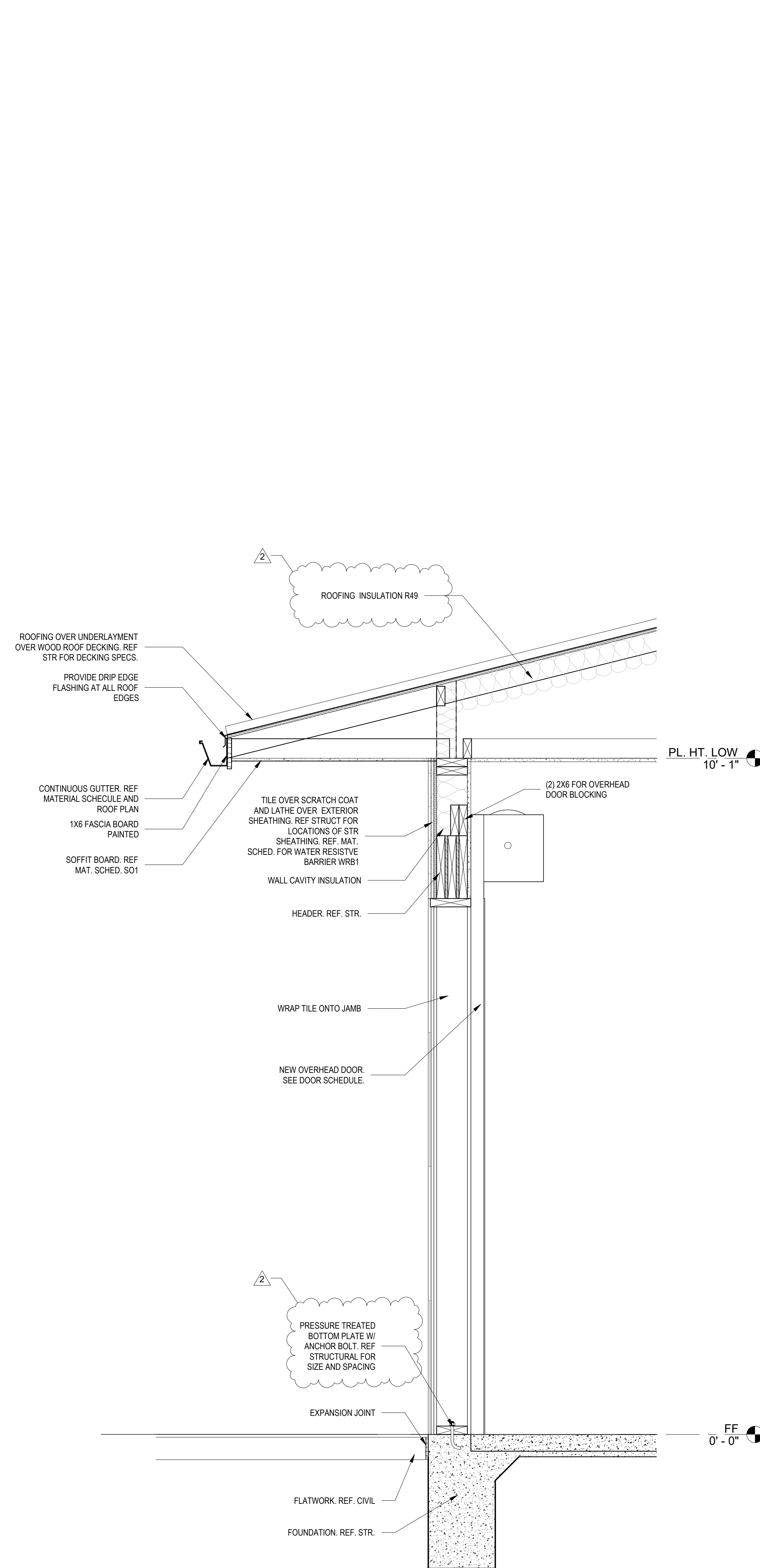
Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78641
512.255.1111
www.weedcorleyfish.com

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FORMS - ENVIRONMENTS - IMAGES

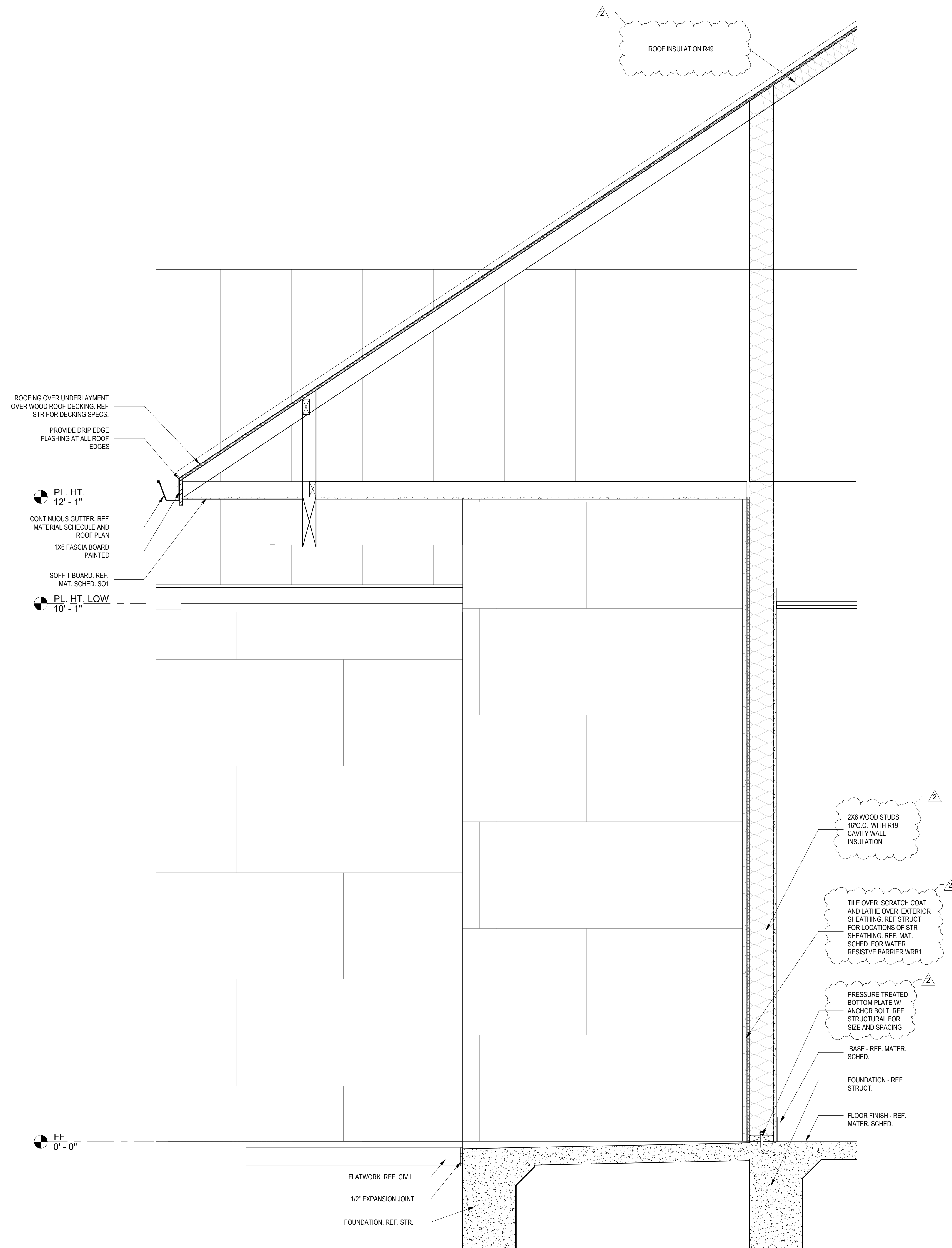
Wall Sections
Project Number: 220502
N-vizion Design, LLC - 8900 Shepherd Mountain Cove, Ste. 2250
Registration No.: TX PE Firm F-1223, TX 25489, LA 9413 MI
1301069591, NV 6252, NC: 14883, OH: ARC-1917885

Date	Description	By	Rev
06/07/24	CD Set	SA	1
06/09/25	Reviz City Comments	SA	2

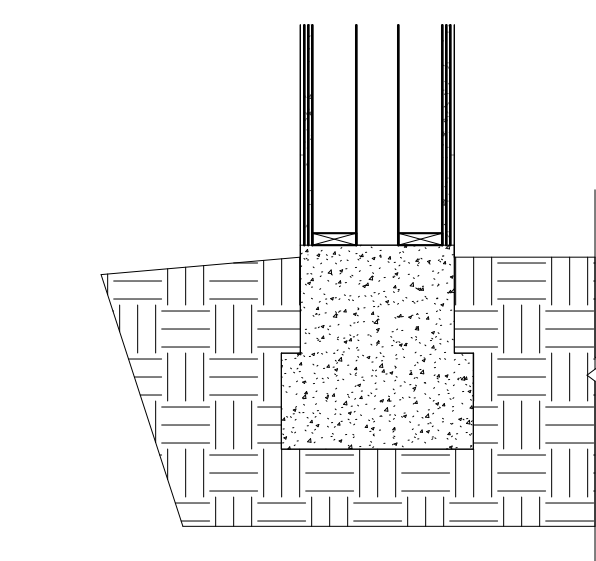
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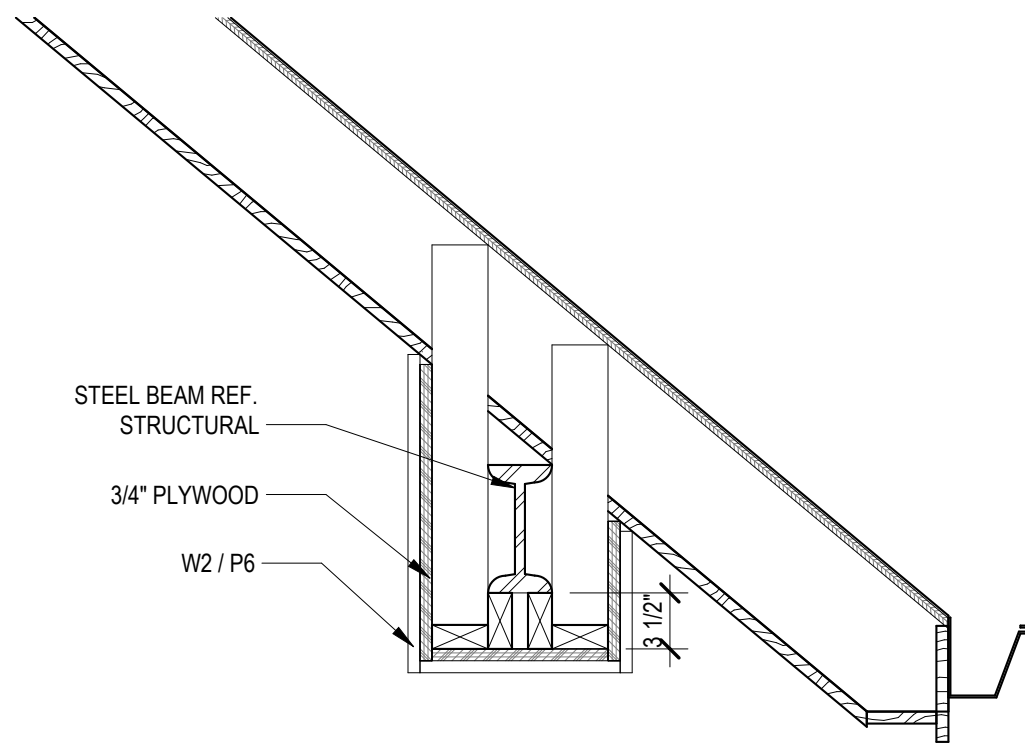
02 Wall Section
1" = 1'-0"



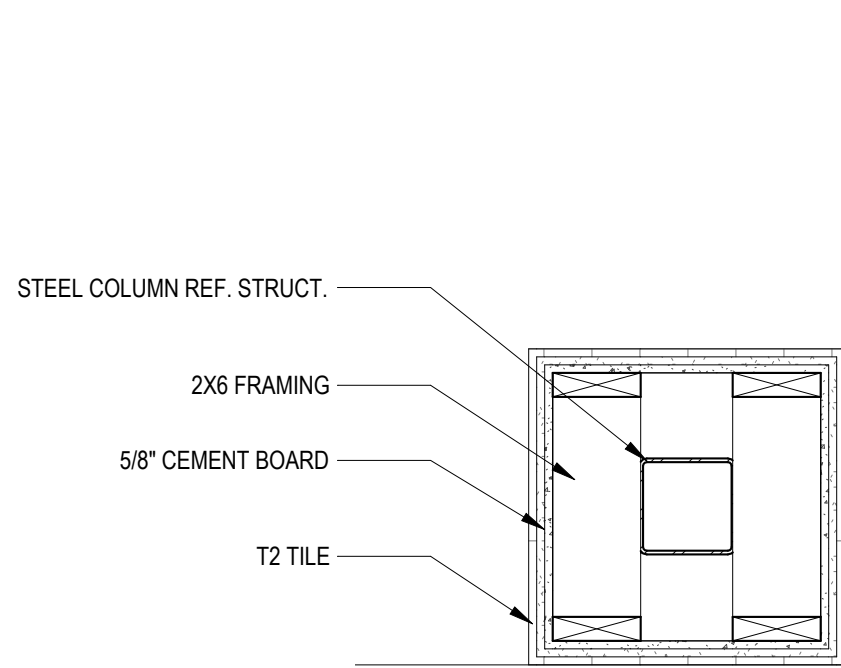
01 Wall Section
1" = 1'-0"



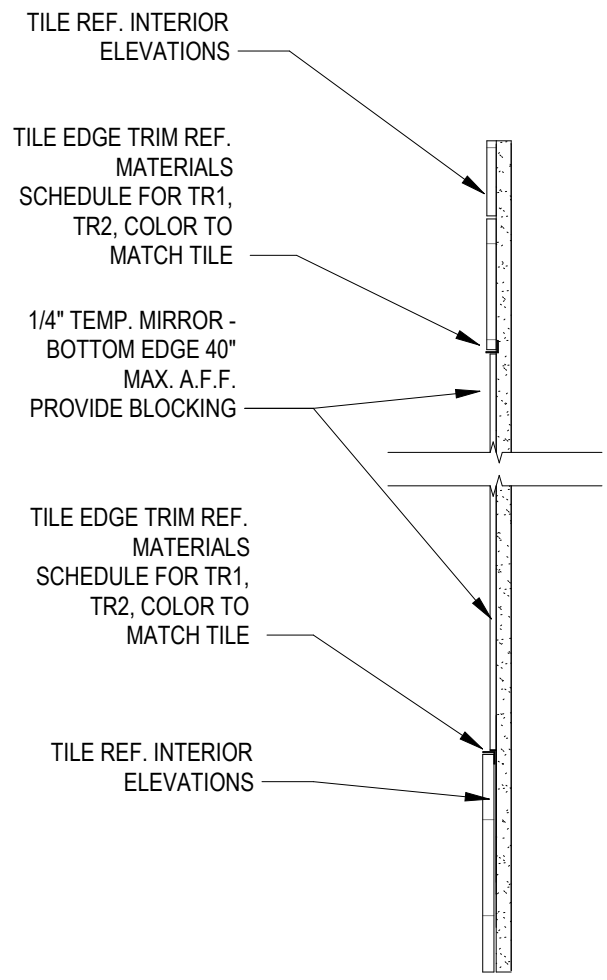
11 INFILL DETAIL
1/2" = 1'-0"



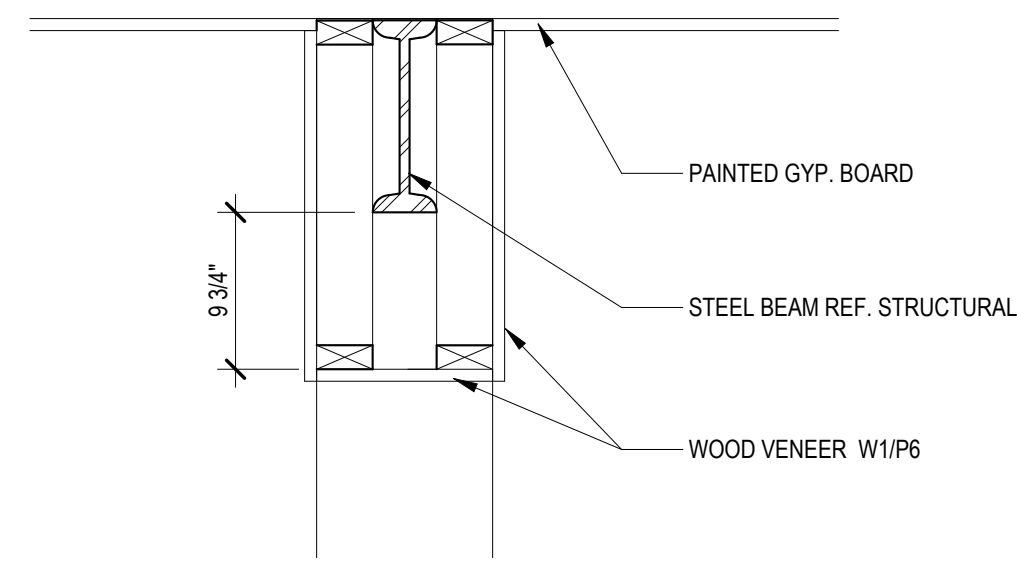
10 Detail 3
1" = 1'-0"



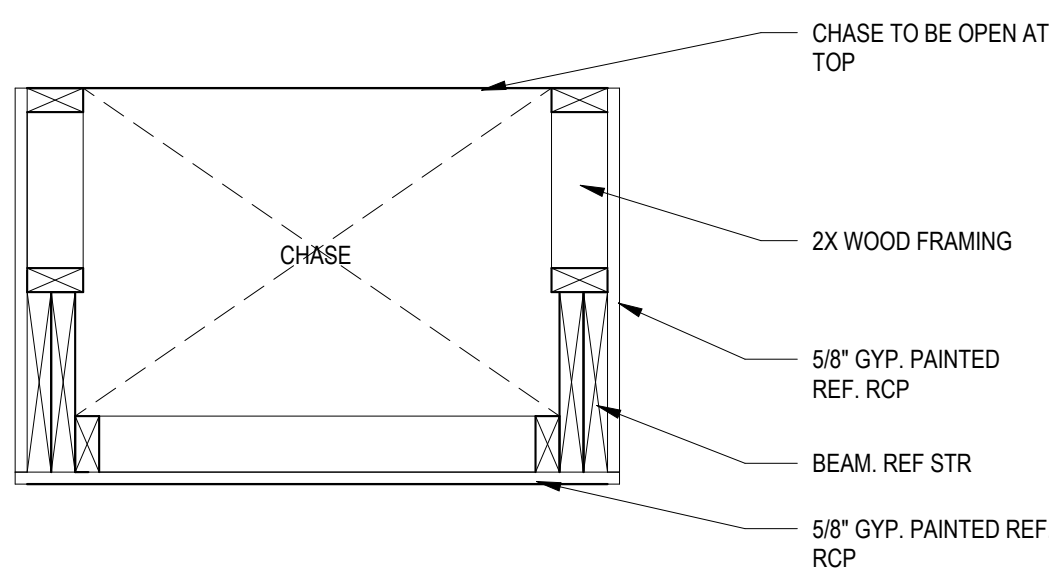
09 Detail 2
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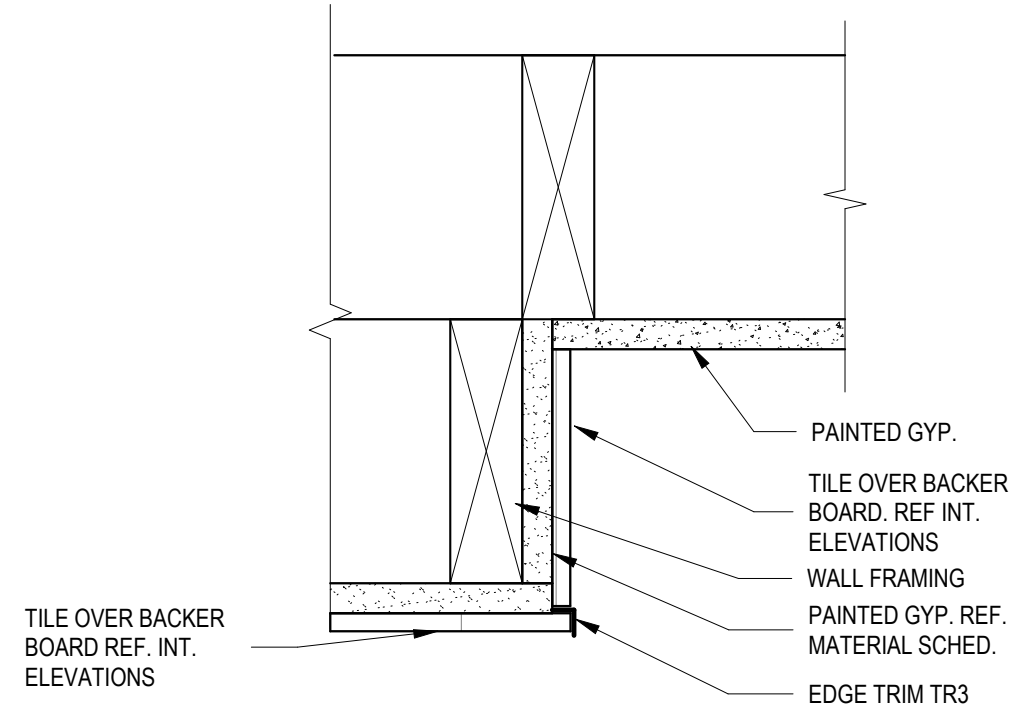
12 MIRROR DETAIL
1 1/2" = 1'-0"



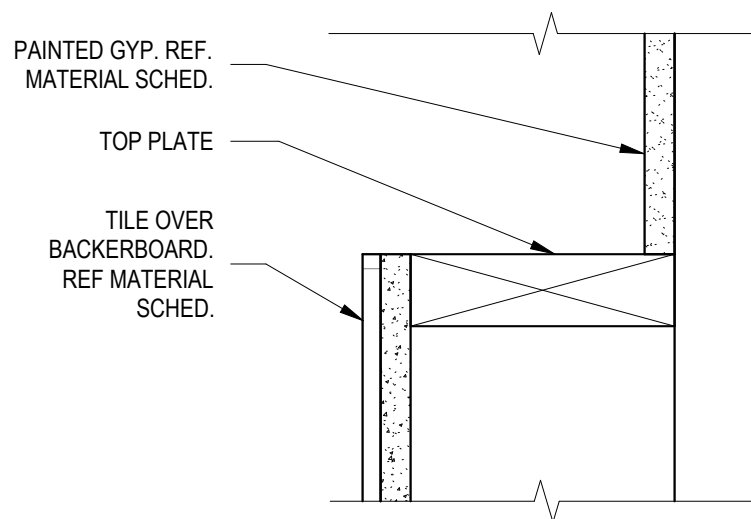
08 Detail 1
1" = 1'-0"



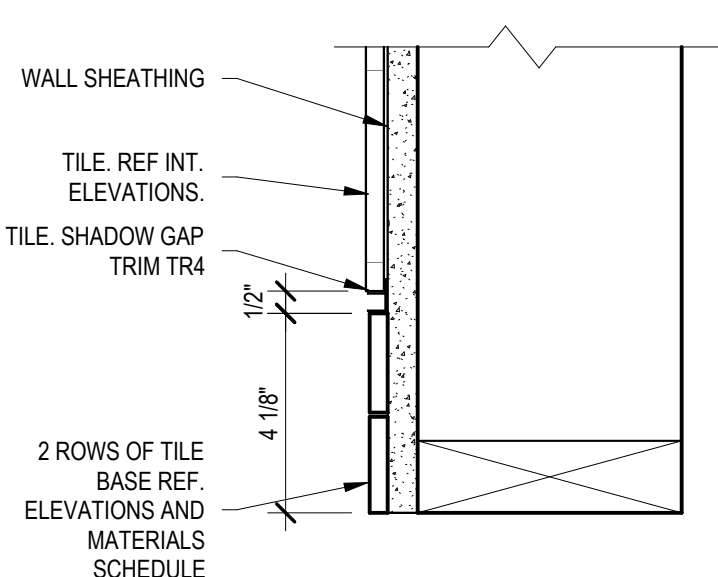
07 DUCT CHASE SECTION
1" = 1'-0"



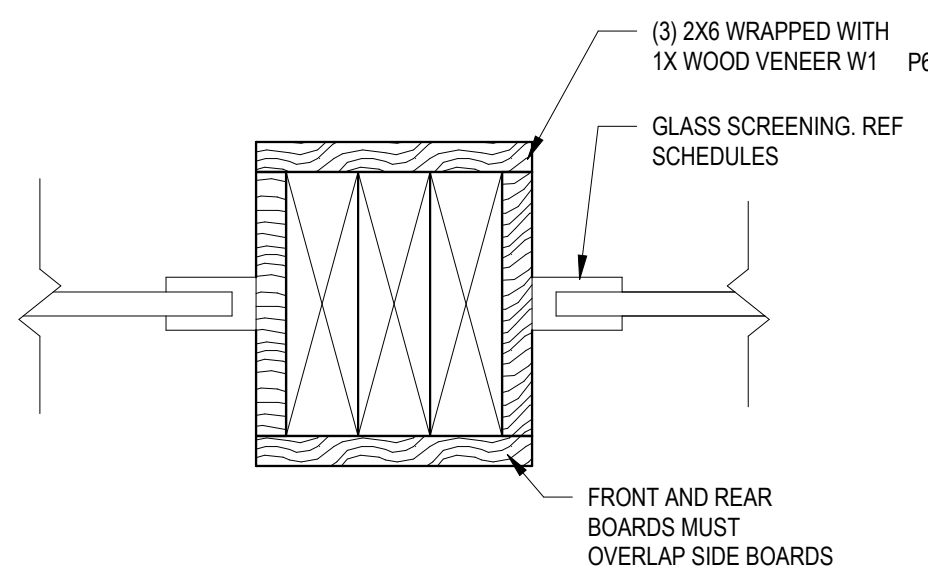
06 TYP. DETAIL - WALL FURROUT CROSS SECTION
3" = 1'-0"



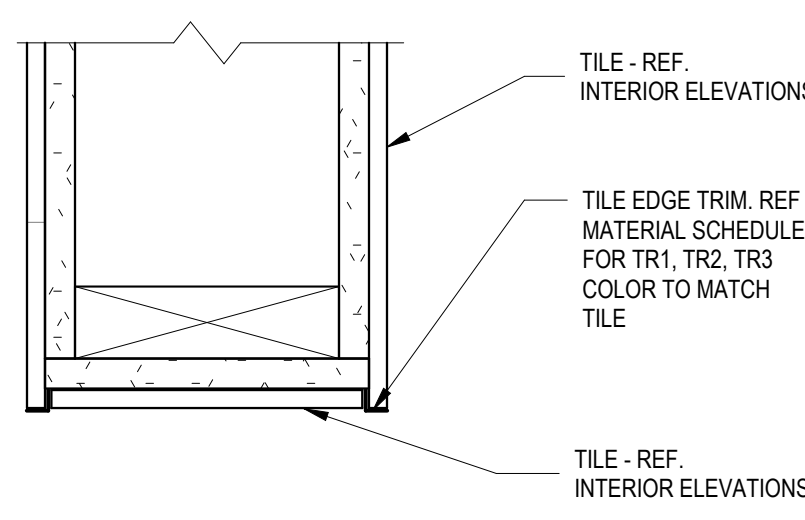
05 TYP. DETAIL -TOP OF TILE WALL FURROUT
3" = 1'-0"



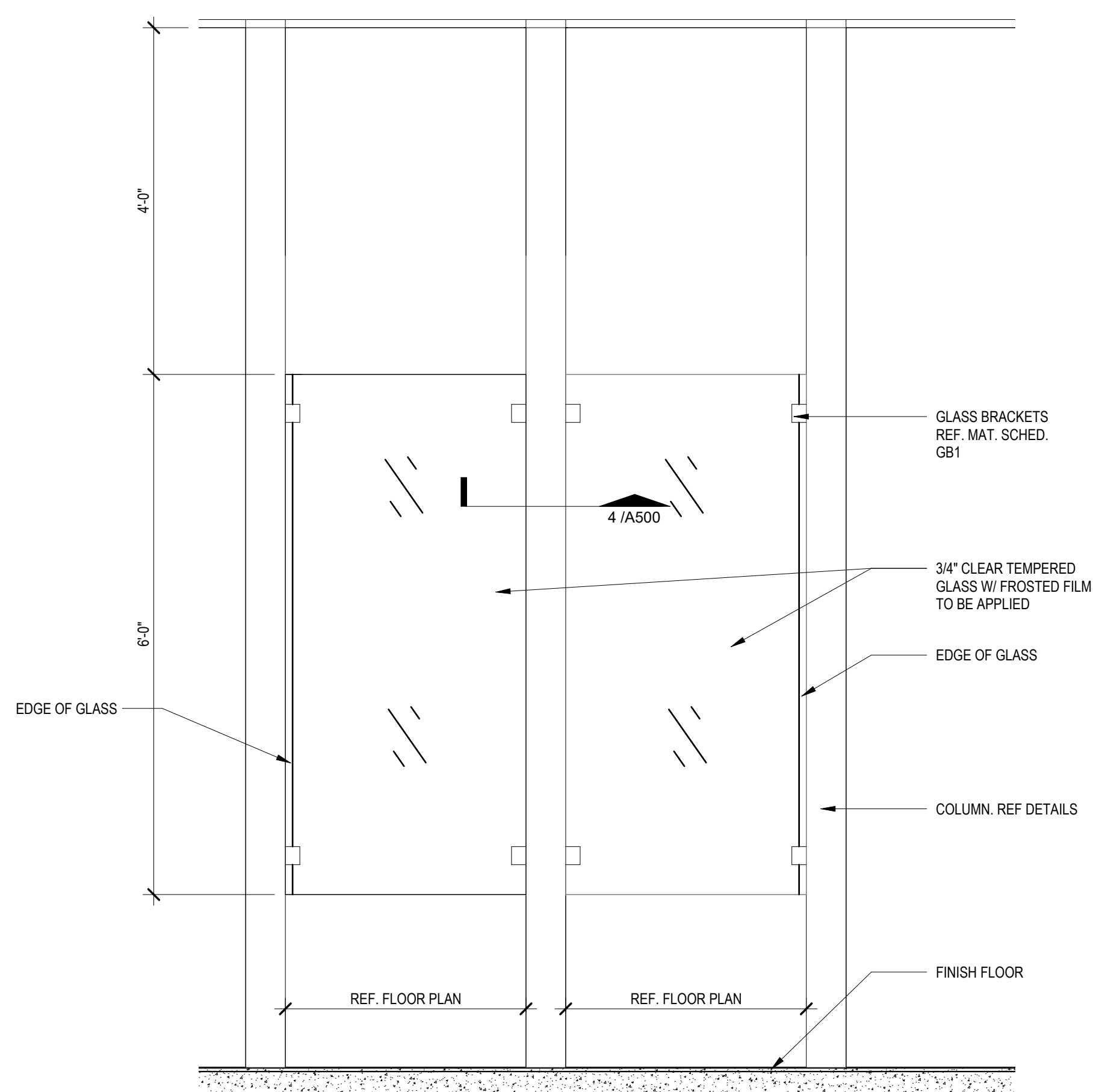
04 TYP. RR TILE DETAIL
3" = 1'-0"



03 TYP. COL. AT SCREEN WALL
3" = 1'-0"



02 RR TILE END WALL DETAIL
3" = 1'-0"



01 Screen Wall at Coffee Bar
3/4" = 1'-0"



Weed Corley Fish
301 S. Bagdad Rd.
Leander, TX 78841

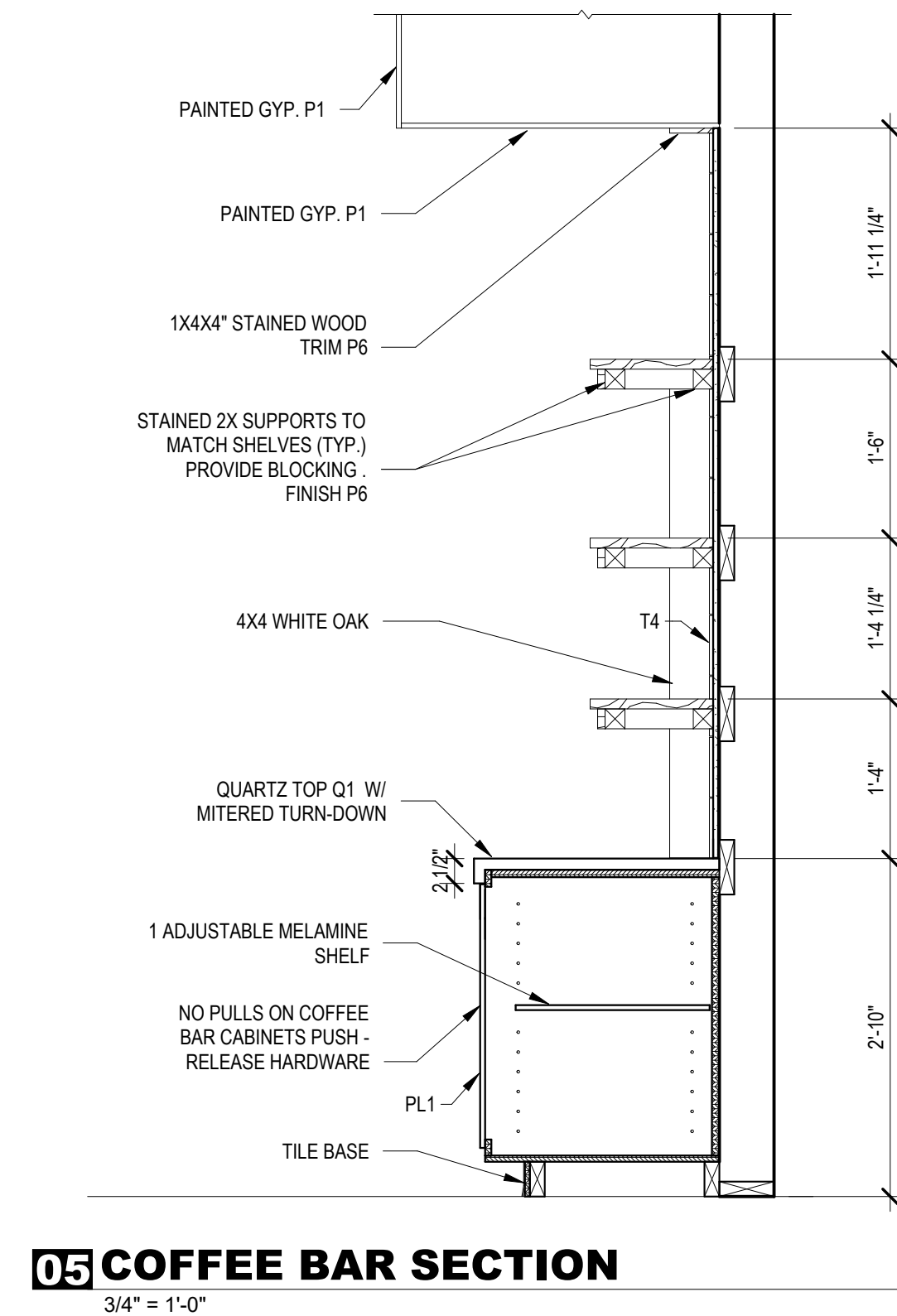
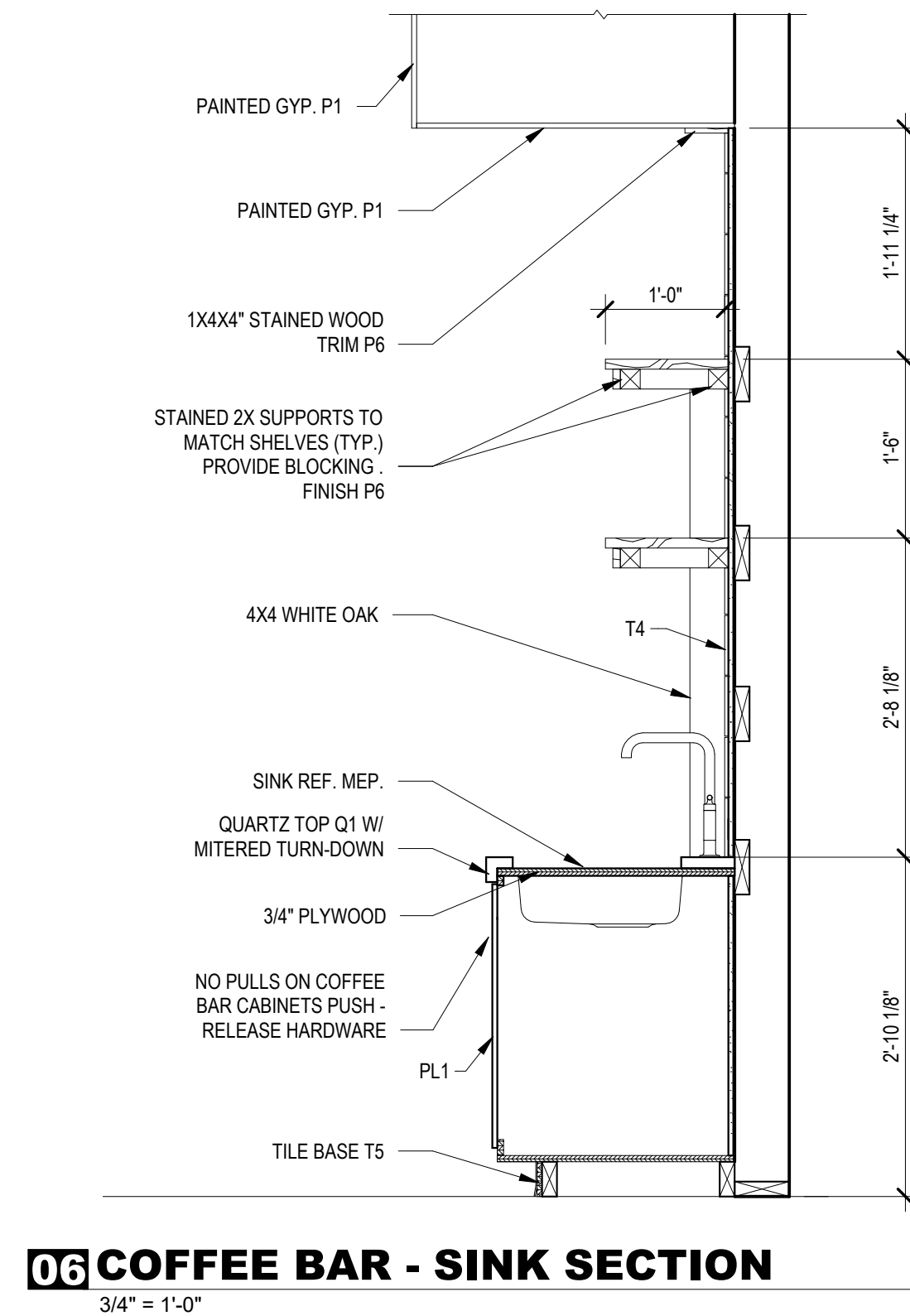
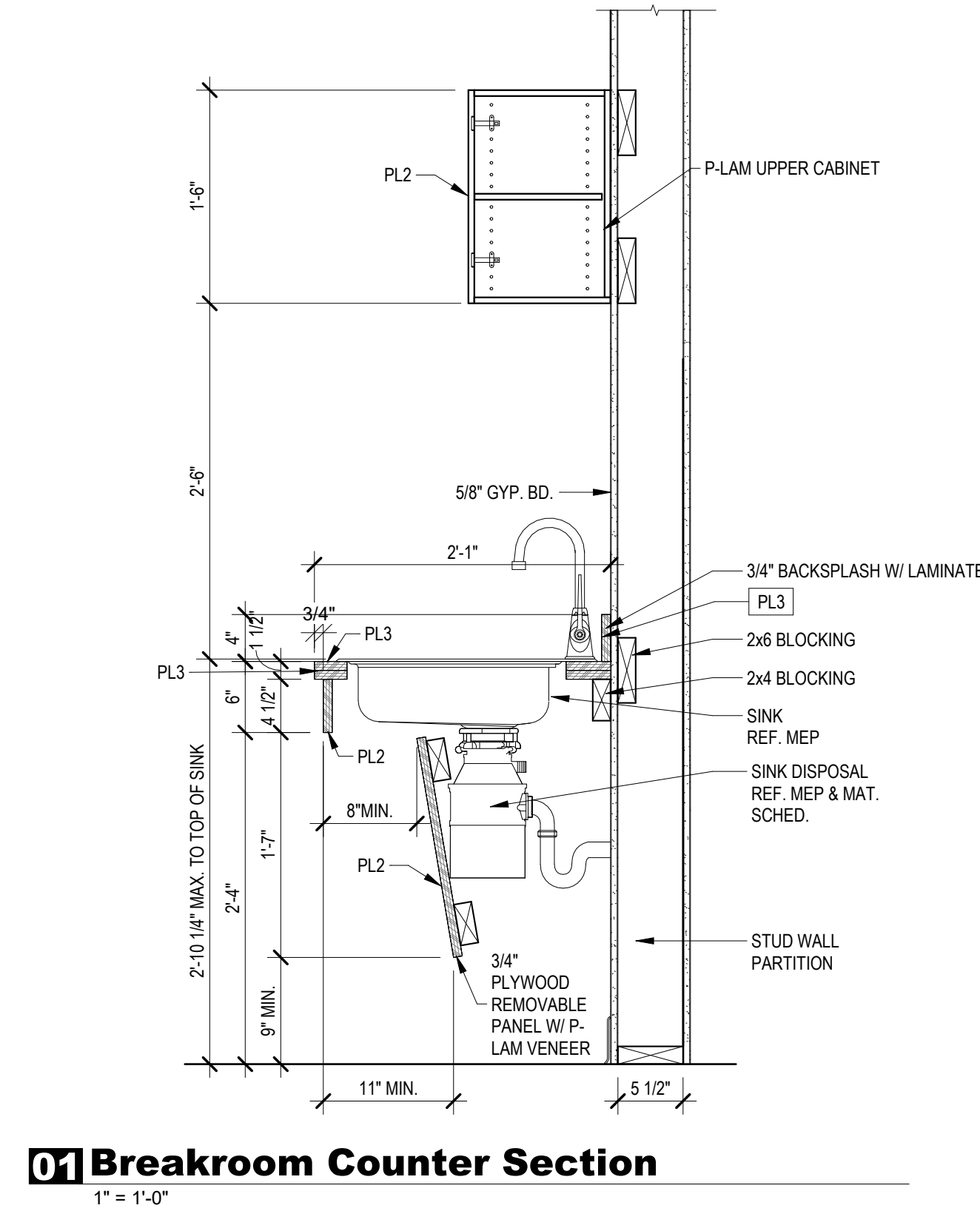
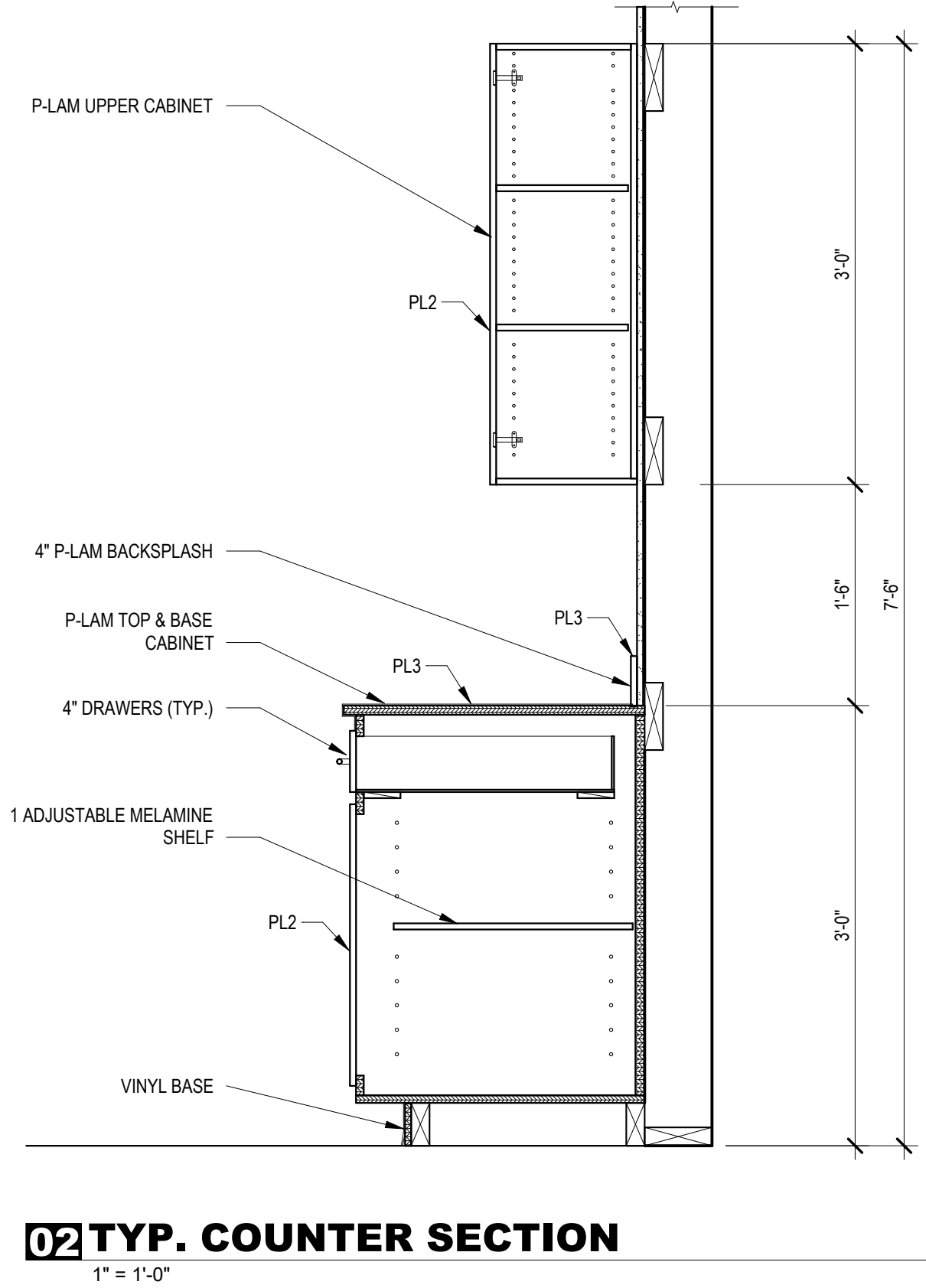
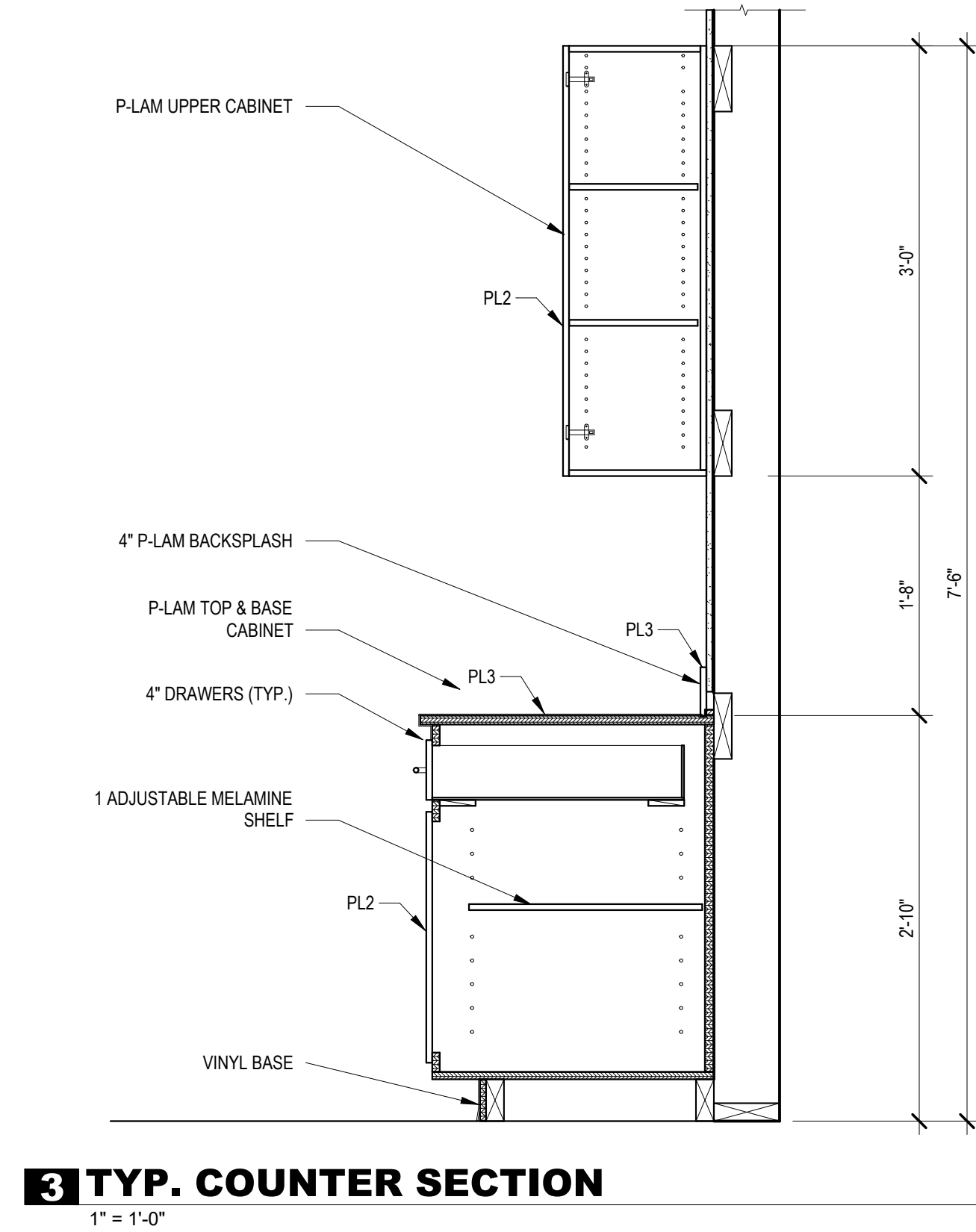
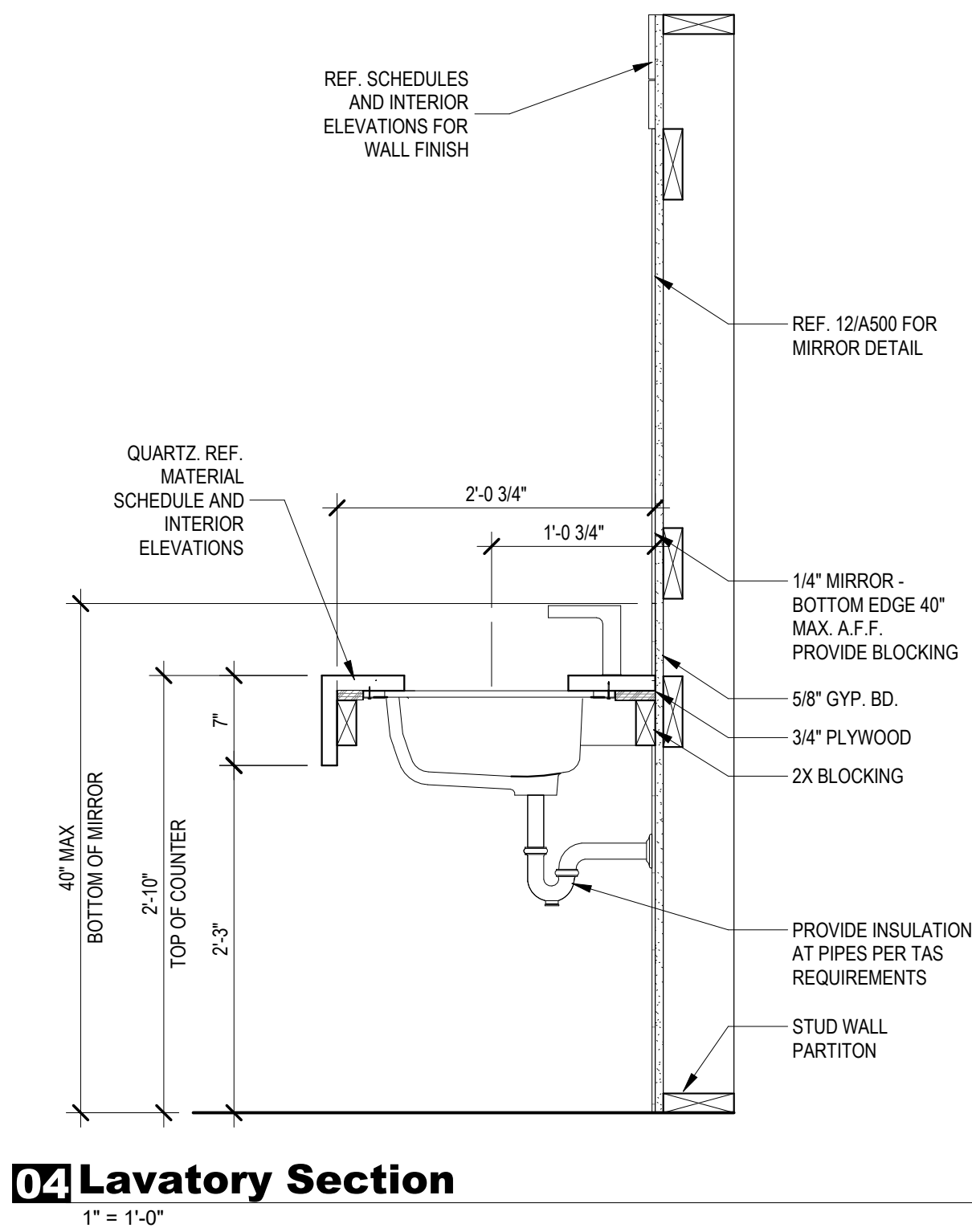
N-VIZION
FORMS - ENVIRONMENTS - IMAGES

Details

Project Number: 230502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-1223, TX-25489, LA, 6413 MI;
1301069591, NV-6252, NC: 14883, OH-ARC-1917885

Date:	Description:
06/07/24	CD Set
10/25/24	Rev1 Permit Set

A500



Date:	Description:
06/07/24	CD Set
10/25/24	Rev1 Permit Set

Millwork Details
Project Number: 230502
N-Vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2250
Registration No.: TX PE Firm F-1223, TX 25488, LA 6413 MI:
1301069591, NV 6252, NC: 14885, OH: ARC 1917885

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301 S. Bagdad Rd.
Leander, TX 78841



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Structural General Notes

General Notes

1. THESE NOTES SHALL APPLY UNLESS OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE, AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS, INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL STANDARDS AND THE APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE.
3. DISCREPANCIES OR VARIATIONS SHALL BE PROMPTLY REPORTED TO THE ARCHITECT.
4. STRUCTURAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THESE DRAWINGS SHOW ONLY REPRESENTATIVE AND TYPICAL DETAILS TO ASSIST THE CONTRACTOR; THEY DO NOT ILLUSTRATE EVERY CONDITION. SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED TO DETAIL ALL CONDITIONS.
5. DIMENSIONS, NOTES, AND SPECIFIC DETAILS CUT ON THESE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
6. NON-STRUCTURAL FRAMING REQUIREMENTS ARE NOT SPECIFIED ON STRUCTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL FRAMING REQUIRED.
7. THE USE OR REPRODUCTION OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
8. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL TEMPORARILY BRACE EARTH, FORMS, CONCRETE, STEEL, WOOD & MASONRY TO RESIST EARTH, GRAVITY, WIND, SEISMIC & LIVE LOADS DURING CONSTRUCTION.
9. UNLESS NOTED OTHERWISE, THESE DRAWINGS DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS, AND ALL OTHER PERSONS DURING CONSTRUCTION, AND TO COMPLY WITH APPLICABLE CITY, STATE, AND FEDERAL LAWS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS PURSUANT THERETO.
11. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, EXCEPT AS SHOWN.
ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES.
SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES OR CURBS AND ANCHOR BOLTS FOR MOTOR MOUNTS.

Design Criteria

1. BUILDING CODE:
2015 INTERNATIONAL BUILDING CODE, ASCE 7-10 (MINIMUM DESIGN LOADS),
ACI 318-14 (STRUCTURAL CONCRETE), ASC 360-10 (STRUCTURAL STEEL),
AWC 2015 NDS (WOOD GRAVITY) & AWC 2015 SDPMs (WOOD LATERAL).
- ALL STANDARDS INCORPORATED BY REFERENCE SHALL BE OF THE YEAR REFERENCED BY OR CONSISTENT WITH THE MAIN CODE ABOVE.
2. DESIGN DEAD LOADS:
ROOF TRUSS TOP CHORD DEAD 15 PSF
ROOF TRUSS BOT CHORD DEAD 5 PSF
STICK-FRAMED ROOF/CEILING 10 PSF
WALL TILE ALLOWANCE 10 PSF
3. DESIGN LIVE LOADS:
TYPICAL ROOF LIVE 20 PSF (REDUCIBLE)
4. SNOW DESIGN CRITERIA:
GROUND SNOW LOAD 5 PSF
5. WIND DESIGN CRITERIA:
WIND SPEED, V_{ULT} 115 MPH
EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT, G_{CPI} 0.18
C&C PRESSURE VARIES BY ZONE
6. SEISMIC DESIGN CRITERIA:
RISK CATEGORY II
SEISMIC IMPORTANCE FACTOR I/p 1.0
SITE CLASS D
MCE/R GROUND MOTION at 1.0s S/1 0.030
MCE/R GROUND MOTION at 0.2s S/5 0.052
SEISMIC DESIGN ACC at 1.0s S/D1 0.047 < 0.067
SEISMIC DESIGN ACC at 0.2s S/D5 0.055 < 0.167
SEISMIC DESIGN CATEGORY A

Foundations

1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS BY ROCK ENGINEERING & TESTING LABORATORY. ALLOWABLE SOIL BEARING PRESSURE IS 2500 PSF FOR BEAMS & FOOTINGS. FOUNDED 24" INTO SELECT FILL OR UNDISTURBED NATIVE SOIL. CONTRACTOR SHOULD FAMILIARIZE THEMSELVES WITH GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION.
2. SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECH REPORT. THE EXISTING SITE SHALL BE STRIPPED TO REMOVE ANY VEGETATION, ROOTS, OR OTHER ORGANIC MATERIAL. A MINIMUM OF 6" OF EXISTING SOIL SHALL BE REMOVED. IN ADDITION, UPPER SOILS SHALL BE OVER-EXCAVATED TO A MINIMUM AT LEAST 12" SELECT FILL UNDER SLAB. SUBSEQUENT TO STRIPPING AND OVEREXCAVATION AS REQUIRED, THE EXPOSED NATURAL SOIL SHOULD BE PROOF-ROLLED TO 95% MAXIMUM DRY DENSITY PER ASTM D698. SLAB SHALL BE BROUGHT TO FINAL ELEVATION USING SELECT FILL, PER NOTE 3.
3. SELECT FILL SHALL CONSIST OF IMPORTED, CRUSHED LIMESTONE SPECIFICALLY APPROVED BY THE GEOTECH ENGINEER. IT SHALL BE PLACED AT 95% MAXIMUM DRY DENSITY PER ASTM D1557 WITHIN ±1% TO +3% OF OPTIMUM MOISTURE CONTENT. SELECT FILL PAD SHALL EXTEND 3 FT BEYOND BUILDING LIMIT IN ALL DIRECTIONS.
4. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM FOUNDATION IN ACCORDANCE WITH APPLICABLE CODES. ENGINEER ASSUMES NO RESPONSIBILITY FOR FOUNDATION WITH INADEQUATE DRAINAGE AND/OR GROUNDWATER COLLECTION. USER IS ADVISED THAT INADEQUATE DRAINAGE CAN DISTRESS STRUCTURE AND ATTACHED COMPONENTS.
5. CROSS-REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES IN GRADE BEAMS, FOUNDATION WALLS AND PIERS.
6. PIPES EXTENDING UNDER FOOTINGS SHALL BE PLACED BEFORE POURING FOOTING AND THE VOID PRODUCED IN LAYING THE PIPE SHALL BE FILLED WITH CONCRETE OR CONTROLLED LOW-STRENGTH MATERIAL.
7. CONTRACTOR SHALL MAINTAIN STABILITY OF EXCAVATIONS UNTIL PROPERLY BACKFILLED, KEEP EXCAVATIONS FREE OF ANY LOOSE MATERIAL, DEWATER EXCAVATIONS, AND REMOVE ANY WET MATERIAL PRIOR TO THE PLACING OF CONCRETE WORK.
8. A VAPOR BARRIER SHALL BE PLACED UNDER ALL INTERIOR SLABS-ON GROUND, MINIMUM 10 MIL THICKNESS. LAP AND SEAL ALL EDGES.
9. THIRD-PARTY SOILS INSPECTION REPORTS BY IBC-QUALIFIED SPECIAL INSPECTOR SHALL BE SUBMITTED FOR ENGINEER REVIEW PER IBC 1705.6, AND SHALL ADDRESS BEARING MATERIAL AND FILL MATERIAL/LIFT THICKNESSES/COMPACTION.

Concrete

1. CONCRETE WORK SHALL BE EXECUTED ACCORDING TO ACI 318 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE', AND ACI 301 'SPECIFICATIONS FOR STRUCTURAL CONCRETE', UNLESS NOTED OTHERWISE.
2. CONCRETE MIX DESIGNS, TO BE SUBMITTED FOR ENGINEER REVIEW, SHALL BE AS SPECIFIED:
28-DAY DESIGN STRENGTH 3000 PSI (SLABS-ON-GRADE & FOUNDATIONS)
PORTLAND CEMENT ASTM C150, TYPE I/II
FLY-ASH ASTM C618 F OR C, 15-25% REPLACEMENT
NORMAL-WEIGHT AGGREGATE ASTM C33, 1-1/2" MAX SIZE
3. NO AIR-ENTRAINMENT ADMIXTURES SHALL BE USED IN CONCRETE FOR FLOOR SLABS, TILT-WALL PANELS, OR ANY OTHER CONCRETE TO RECEIVE A HARD-TROWEL FINISH.
4. CONTRACTOR SHALL PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SUCH SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PENETRATIONS. CORE-DRILLING CONCRETE IS NOT PERMITTED UNLESS NOTED OTHERWISE OR APPROVED IN WRITING BY THE ARCHITECT.
5. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR EMBEDMENT IN CONCRETE. ANY ALUMINUM MUST BE COATED TO PREVENT ALUMINUM-CONCRETE REACTION.
6. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT, AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS, WITHOUT REDUCING THE THICKNESS OF THE SLABS INDICATED. FOR SLAB-ON-GROUND DEPRESSIONS GREATER THAN 1", CONTACT STRUCTURAL ENGINEER FOR ADDITIONAL REPAIRING DETAILS.
7. CONTRACTOR SHALL PROVIDE ADEQUATE CURING PER ACI 301 UNTIL THE CONCRETE STRENGTH SURPASSES 70% DESIGN STRENGTH. MOIST CURING WITH MATS/FABRIC KEPT CONTINUOUSLY WET, CURING BENEATH SHEET MATERIALS PER ASTM C171, OR USE OF CURING COMPOUNDS PER ASTM C309 OR C1315 PER MANUFACTURER'S GUIDELINES AT RATES GREATER THAN 1 GAL/200 SF ARE ALL ACCEPTABLE CURING METHODS IF PROPERLY EXECUTED.

8. FLOOR TOLERANCES SHALL BE AS BELOW:
SURFACE TOLERANCE: CLASS 'B' PER ACI 301
THICKNESS: +1" & -1/2" SLAB-ON-GRADE
FLATNESS: FT
LEVELNESS: FL = 25
9. CONTRACTOR SHALL PROVIDE SAWCUT CONTROL JOINTS 1/4 SLAB THICKNESS DEEP IN ALL SLABS-ON-GRADE AT LOCATIONS SHOWN IN PLAN. ALTERNATELY, LOCATE JOINTS AT A MAXIMUM OF 36 TIMES SLAB THICKNESS IN BETWEEN STIFFENING BEAMS (NOT ON TOP OF BEAMS WHEREVER POSSIBLE). CONTROL JOINTS SHALL BE CONTINUOUS, NOT STAGGERED OR OFFSET. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5 TO 1.
10. ALL CONSTRUCTION JOINTS BETWEEN ADJACENT CONCRETE POURS OR BETWEEN CONCRETE AND MASONRY CLEANED OF DIRT, DEBRIS, FORM OILS, AND LAITANCE TO ASSURE PROPER BOND WITH ADJACENT POUR OR MASONRY CONSTRUCTION. INTENTIONALLY ROUGHEN ALL EXISTING CONCRETE SURFACES OLDER THAN 28 DAYS AGAINST WHICH CONCRETE IS TO BE PLACED UNLESS DIRECTED OTHERWISE IN WRITING BY ENGINEER.
11. CONTRACTOR SHALL FOLLOW ACI 306 FOR COLD-WEATHER CONCRETING AND ACI 305 WHEN ANY COMBINATION OF HIGH TEMPERATURE, LOW RELATIVE HUMIDITY AND WIND VELOCITY TEND TO IMPAIR THE QUALITY OF THE CONCRETE. CONCRETE SHALL BE REJECTED IF ITS TEMPERATURE AT TIME OF PLACEMENT IS 90F OR ABOVE. PROTECT SURFACES OF EXPOSED CONCRETE FROM PRECIPITATION DAMAGE UNTIL ADEQUATE STRENGTH IS GAINED TO PREVENT DAMAGE.
12. THIRD-PARTY PRE-POUR INSPECTION REPORTS BY IBC-QUALIFIED SPECIAL INSPECTOR SHALL BE SUBMITTED FOR ENGINEER REVIEW FOR ALL SLAB-ON-GRADE FOUNDATIONS PER IBC 1705.3, AND SHALL ADDRESS PLACEMENT OF FLOOR REINFORCEMENT, EMBED PLATES, AND ANCHOR RODS AS APPLICABLE; AS WELL AS FORMWORK AND MEMBER DIMENSIONS.

Concrete Reinforcement

1. REINFORCING BARS SHALL CONFORM WITH ASTM A615, GRADE 60.
2. FOR CAST-IN-PLACE CONCRETE, PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS:
GRADE BEAMS/FOOTINGS 3" BOTTOM, 2" SIDES & TOP
SLABS-ON-GRADE 1-1/2" TOP
3. ALL CONTINUOUS BARS SHALL HAVE 42 BAR DIAMETERS LAP SPLICE. PROVIDE CORNER BARS AT ALL WALL AND GRADE BEAM CORNERS & INTERSECTIONS PER DETAIL. PROVIDE TOP DIAGONAL BARS 3-#4 x4 FT LONG AT ALL REINTRANT CORNERS IN ALL SLABS-ON-GRADE.
4. WHERE REBAR IS INTERRUPTED BY OPENINGS OR EMBEDDED OBJECTS, AN EQUAL AMOUNT OF STEEL SHALL BE PLACED AT THE SIDES OF THE OPENING/EMBED, AND SHALL BE LAPPED 42 BAR DIAMETERS PAST THE EDGE OF THE OPENING/EMBED.
5. PROVIDE ADEQUATE TIES, CONCRETE BLOCKS & CHAIRS TO PROPERLY SECURE REBAR & CONCRETE INSERTS AT CORRECT LOCATION, PER CRSI MANUAL OF STANDARD PRACTICE.
6. CONTINUOUS REINFORCING SHALL BE LAPPED AS FOLLOWS UNLESS NOTED OTHERWISE:
TOP BARS MIDSPAN OR BETWEEN INTERSECTING BEAMS
BOTTOM BARS DIRECTLY OVER SUPPORT OR AT INTERSECTING BEAMS
7. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.
8. CONCRETE REBAR SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER REVIEW.

Concrete or Masonry Anchors

1. HEADED STUD ANCHORS CAST INTO CONCRETE OR GROUT-FILLED MASONRY SHALL BE NELSON FLUXED HEAD STUDS OR APPROVED EQUAL. STUDS SHALL BE AUTOMATICALLY END-WELDED, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. HEADED STUDS SHALL BE MANUFACTURED OF C1015, C1017, OR C1020 COLD-DRAWN STEEL CONFORMING TO ASTM 108-58T.
2. EXPANSION ANCHORS POST-INSTALLED IN CONCRETE SHALL BE HILTI KWIK-BOLT TZ, SIMPSON WEDGE-ALL, OR APPROVED EQUAL.
3. EPOXY ANCHORS & DOWELS POST-INSTALLED IN CONCRETE SHALL USE HILTI HIT-HY 200 EPOXY, SIMPSON SET-3G EPOXY, ITW RED HEAD CG+ EPOXY, DEWALT AC208+, OR APPROVED EQUAL. ANCHORS SHALL BE CONSIST OF ASTM F1554, GRADE 36 THREADED ROD; ASTM A563 NUTS; AND ANSI A436 WASHERS. DOWELS SHALL BE ASTM A615, GRADE 60 REBAR.
4. EPOXY ANCHORS & DOWELS POST-INSTALLED INTO MASONRY SHALL USE HILTI HIT-HY 270, DEWALT AC100+, OR APPROVED EQUAL, WITH MESH SLEEVES AT HOLLOW CMU OR MASONRY WITH VOIDS. ANCHORS SHALL BE CONSIST OF ASTM F1554, GRADE 36 THREADED ROD; ASTM A563 NUTS; AND ANSI A436 WASHERS. DOWELS SHALL BE ASTM A615, GRADE 60 REBAR.
5. LARGE-DIAMETER SCREW ANCHORS POST-INSTALLED IN CONCRETE SHALL BE HILTI KWIK HUS-EZ, SIMPSON TITEN HD, TAPCON HEAVY DUTY, DEWALT SCREW-BOLT+, OR APPROVED EQUAL. SMALL-DIAMETER DIAMETER SCREW ANCHORS (3/16" OR 1/4") SHALL BE TAPCON, SIMPSON TITEN TURBO, OR APPROVED EQUAL.
6. CONTRACTOR SHALL LOCATE EXISTING REINFORCING, POST-TENSIONING TENDONS AND/OR SOLID-GROUTED CMU CELLS PRIOR TO DRILLING. IT IS NOT ACCEPTABLE TO CUT EXISTING REBAR OR PT TENDONS. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED TO AVOID THE REBAR/PT TENDONS, THE ENGINEER WILL DETERMINE A NEW LOCATION.
7. CONTRACTOR SHALL INSTALL ANCHORS PER MANUFACTURER'S INSTRUCTIONS, AND SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE TRAINING IF NECESSARY. ANCHOR HOLES MUST BE CLEANED PROPERLY, USING HOLLOW DRILL BITS, COMPRESSED AIR AND/OR VACUUMS, AS REQUIRED, PRIOR TO INSTALLATION OF ANCHORS.
8. STAINLESS STEEL ANCHORS ARE REQUIRED FOR EXTERIOR USE (EXPOSED TO WEATHER); GALVANIZED ANCHORS ARE ACCEPTABLE AT OTHER LOCATIONS.

Concrete Masonry Units

1. MASONRY MATERIALS, TO BE SUBMITTED FOR ENGINEER REVIEW, SHALL BE AS SPECIFIED:
CONCRETE BLOCK ASTM C90, GRADE N-1, 1900 PSI AVERAGE NET AREA
MORTAR ASTM C270, TYPE S, 1800 PSI BY PROPORTION
GROUT ASTM C476, 2500 PSI
MORTAR/GROUT BINDER PORTLAND CEMENT TYPE I/II (NOT LIME/MASONRY CEMENT)
2. MORTARING/GROUTING REQUIREMENTS SHALL BE AS FOLLOW:
a. BED, HEAD, AND COLLAR JOINTS SHALL BE COMPLETELY FILLED WITH MORTAR.
b. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT.
c. MINIMUM 5/8" GROUT BETWEEN MAIN REINFORCING AND FACE OF MASONRY UNIT.
d. MAXIMUM GROUT LIFT WITHOUT CLEANOUTS 5 FT.
3. VERTICAL REINFORCING SHALL BE CENTERED IN WALL & SHALL BE SPLICED 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
4. LOAD-BEARING MASONRY SHALL HAVE 9 GAGE LADDER TYPE FULL-LENGTH HORIZONTAL REINFORCEMENT NOT TO EXCEED 16" O.C. VERTICALLY.
5. CONTRACTOR SHALL REINFORCE WALL CORNERS, WALL INTERSECTIONS, WALL ENDS, AND OPENING JAMBS IN ADDITION TO PROVIDING BARS AT TYPICAL WALL SPACING; AND PROVIDE CONTINUOUS BOND BEAMS AT THE TOP COURSE OF THE WALL, AT FLOOR/ROOF BEARING ELEVATION, AND AT OTHER LOCATIONS AS DETAILED.
6. SEE ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE, UNLESS NOTED OTHERWISE, ALL BLOCK SHALL BE RUNNING BOND.

Wood

1. DIMENSIONAL LUMBER FOR CEILING JOISTS, BEAMS, RAFTERS, AND EXTERIOR LOAD-BEARING STUDS SHALL BE SOUTHERN PINE #2, 19% KD, WITH DESIGN VALUES AS BELOW:
2x4 Fb=1100 PSI Fv=175 PSI E=1400 KSI
2x6 Fb=1000 PSI Fv=175 PSI E=1400 KSI
2x8 Fb=925 PSI Fv=175 PSI E=1400 KSI
2x10 Fb=800 PSI Fv=175 PSI E=1400 KSI
2x12 Fb=750 PSI Fv=175 PSI E=1400 KSI
2. DIMENSIONAL LUMBER FOR STUDS IN BEARING WALLS SHALL BE SOUTHERN PINE OR SPRUCE-PINE-FIR STUD GRADE TYPICALLY, WITH MINIMUM DESIGN VALUES VALUES BELOW:
SOUTHERN PINE #2 GRADE SHALL BE REQUIRED FOR STUD COLUMNS UNDER CEILING BEAMS AND AT BALCONY-FRAMED WALLS, AS SPECIFIED ON THE FRAMING PLANS.
2x Fb=875 PSI Fc=1150 PSI E=1400 KSI
3. ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN PROPERTIES:
GLULAM Fb=2400 PSI Fv=200 PSI E=1800 KSI
LVL Fb=2600 PSI Fv=285 PSI E=2000 KSI
PSL Fb=2900 PSI Fv=290 PSI E=2000 KSI
4. ALL LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED TESTING AGENCY. EACH PIECE OF LUMBER SHALL BE OF THE GRADE/SIZE SPECIFIED OR BETTER.
5. ALL WOOD IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE TREATED.
6. GLULAM MEMBERS, WHERE EXPOSED, SHALL BE AITC ARCHITECTURAL APPEARANCE GRADE. MEMBERS NOT EXPOSED SHALL BE USI INDUSTRIAL GRADE.
7. STUDDING SHALL BE DOUBLE AT ALL ANGLES, CORNERS, AND AT OPENINGS ≤ 8 FT CLEAR. STUDDING SHALL BE TRIPLE UNDER TRUSS GIRDERS OR AT LONGER-SPAN OPENINGS, UNLESS NOTED OTHERWISE. AT MULTI-PLY JOISTS OR HEADERS, THERE SHALL BE ONE STUD PER PLY (ie, PROVIDE DOUBLE STUDS UNDER DOUBLE JOISTS).
8. CONTRACTOR SHALL ENSURE THAT ALL LOADS TRANSFERRED BY HEADERS & BEAMS TO UPPER LEVEL STUDS ARE PROPERLY TRANSFERRED DOWN TO THE FOUNDATION.
9. ALL FLUSH BEAMS AND JOISTS SHALL BE SUPPORTED WITH THE SIMPSON STRONG-TIE BEAM OR JOIST HANGER INDICATED IN THE PLANS, OR RATED-LOAD EQUIVALENT.

10. CONTRACTOR SHALL DOUBLE RAFTERS OR JOISTS AT OPENINGS OR WHERE CONCENTRATED LOADS EXCEED 100 LBS, BUT SHALL CONTACT ENGINEER IF CONCENTRATED LOADS EXCEED 200 LBS.
11. STRUCTURAL BLOCKING REQUIREMENTS SHALL BE AS FOLLOW, UNLESS NOTED OTHERWISE:
a. 2x BLOCKING AT RAFTER OR JOIST SUPPORTS
b. 2x SOLID BLOCKING OR BLOCKING PANELS AT TRUSS HEELS
13. ALL NAIL SIZES GIVEN IN THESE NOTES AND FRAMING DETAILS ARE AS COMMON NAILS. NAIL SIZES MAY BE SUBSTITUTED AS BELOW, OR WITH SPECIFIC PERMISSION OF THE ENGINEER:
a. 10d BOX NAILS MAY BE SUBSTITUTED FOR 8d COMMON
b. 16d BOX NAILS MAY BE SUBSTITUTED FOR 10d COMMON
c. 40d BOX NAILS OR 16d SINKER NAILS MAY BE SUBSTITUTED FOR 16d COMMON
14. MINIMUM NAILING SHALL BE AS FOLLOWS. SEE IBC NAILING SCHEDULE FOR NAILING NOT SPECIFICALLY CALLED OUT IN THE NOTES OR DRAWINGS.
BLOCKING ETWN FRAMING
AT TOP PLATE (3) 8d TOENAIL
OTHERWISE (2) 8d TOENAIL OR (2) 16d END NAIL
BRIDGING TO JOIST/RAFTER/TRUSS (2) 8d TOENAILS EACH END
BLOCKING/RIM JOIST TO TOP PLATE 8d @ 6" O.C. TOE NAIL
CEILING JOISTS
TO TOP PLATE (3) 8d TOENAIL
LAPS OVER PARTITIONS (3) 16d FACE NAIL
RAFTER/TRUSS, TO TOP PLATE (3) 10d TOE NAIL
RAFTER, TO VALLEY/HIP/RIDGE BEAMS (3) 10d TOE NAIL & (2) 16d END NAIL
JOIST TO SILL/TOP PLATE/BREAM (3) 8d TOE NAIL
JOIST TO BAND JOIST (3) 16d END NAIL
BUILT-UP MULTI-2x STUDS 16d @ 16" O.C. FACE NAIL
ABUTTING STUDS AT WALL BE INTERSECTIONS 16d @ 16" O.C. FACE NAIL
DOUBLE TOP PLATE PIECES 16d @ 16" O.C. FACE NAIL
UPPER TO LOWER PLATE, CONTINUOUS 16d @ 6" O.C. FACE NAIL (MIN 4'-0")
SPLICES IN PLATE, 4 FT EACH SIDE LAPS AT CORNERS OR INTERSECTIONS (2) 16d @ 16" O.C. FACE NAIL
BOTTOM PLATE TO JOIST/BAND/BLOCKING (4) 8d TOENAIL OR (2) 16d END NAIL
STUD TO TOP OR BOTTOM PLATE (4) 8d TOENAIL
CONTINUOUS HEADER TO STUD (4) 8d TOENAIL
BUILT-UP MULTI-2x HEADER (2) 16d AT ENDS/EACH SPLICE
BUILT-UP MULTI-LVL GIRDERS (3) 16d @ 12" O.C. (TOP, MID & BOT) & (3) 16d AT ENDS/EACH SPLICE
15. SPECIAL FASTENING REQUIREMENTS SHALL BE AS FOLLOW, UNLESS NOTED OTHERWISE:
a. NAILS LARGER THAN 20d MUST BE PRE-DRILLED.
b. THRU-BOLT HOLES SHALL BE FIELD-DRILLED FOR PROPER MATCHING AND BEARING.
c. LAG SCREWS REQUIRE CLEARANCE HOLES (SAME AS SHAFT) AND LEAD HOLES (ROOT THREADS) PER NDS. LAG SCREWS SHALL NOT BE DRIVEN INTO PLACE.
d. STANDARD CUT WASHERS SHALL BE PROVIDED FOR MACHINE BOLTS AND LAG SCREWS WITH HEADS OR NUTS BEARING ON WOOD.
16. ALL WOOD SHEATHING SHALL BE EXPOSURE 1 RATED. FLOOR AND ROOF SHEATHING SHALL BE LAID WITH ITS LONG AXIS AND FACE GRAIN PERPENDICULAR TO FRAMING UNLESS NOTED OTHERWISE.
17. WOOD ROOF DECK SHALL BE 15/32" APA-RATED SHEATHING (PLYWOOD OR OSB) FOR 24" O.C. RAFTER/TRUSS SPACING. ENDS OF PANELS SHALL MEET OVER SUPPORTS. DECK SHALL BE NAILED TO SUPPORTS WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES, IN THE FIELD, AND AT SHEAR WALL LOCATIONS.
18. WOOD SHEATHING ON SHEAR WALLS SHALL BE 15/32" CDX APA-RATED PLYWOOD SHEATHING (OSB NOT PERMITTED). NAIL SHEATHING TO STUDS WITH 8d COMMON NAILS @ 6" O.C. EDGES, 12" O.C. FIELD, UNLESS SHEAR WALL SCHEDULE PROVIDES TIGHTER SPACING. PANEL EDGES SHALL BE BLOCKED, UNLESS NOTED OTHERWISE.
19. SILL PLATE ON CONCRETE SHALL BE PRESSURE-TREATED SOUTHERN PINE, ANCHORED WITH 1/2" @ ANCHOR BOLTS EMBEDDED 7" MINIMUM INTO CONCRETE @ 48" O.C. OR WITH HILTI X-CP ANCHORS ACTUATED FASTENERS @ 8" O.C., UNLESS NOTED OTHERWISE. MINIMUM OF 2 ANCHORS OR FASTENERS PER PIECE, WITH ONE ANCHORS OR FASTENER WITHIN 12" OF EACH END.
20. INTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS LATERAL FORCE-RESISTING ELEMENTS SHALL BE SPECIFIED BY THE ARCHITECT AND/OR IN ACCORDANCE WITH THE GOVERNING CODE.
21. A HOLE <40% OF THE STUD WIDTH MAY BE BORED IN ANY WOOD STUD, PROVIDED THAT IT HAS ±5/8" CLEAR TO THE EDGE OR THE STUD. HOLES MAY NOT BE BORED IN LENGTHS OF STUDS THAT ARE ALREADY CUT OR NOTCHED.
22. ALL ROUGH CARPENTRY SHALL PRODUCE JOINTS TRUE, TIGHT, AND WELL NAILED WITH MEMBERS ASSEMBLED IN ACCORDANCE WITH THE DRAWINGS AND WITH ALL PERTINENT BUILDING CODES. THE SHIMMING OF SILLS, JOISTS, SHORT STUDS, TRIMMERS, HEADERS OR OTHER FRAMING MEMBERS SHALL NOT BE PERMITTED. ALL WALLS AND PARTITIONS SHALL BE STRAIGHT, PLUMB AND ACCURATELY LOCATED. CAREFULLY SELECT ALL STRUCTURAL MEMBERS. INDIVIDUAL PIECES SHALL BE SELECTED SO THAT KNOTS AND OBVIOUS MINOR DEFECTS WILL NOT INTERFERE WITH THE PLACING OF BOLTS, OR PROPER NAILING, OR THE MAKING OF SOUND CONNECTIONS. LUMBER MAY BE REJECTED BY THE ENGINEER OR ARCHITECT FOR EXCESSIVE WARP, TWIST, BOW OR CROOK, MILDEW, FUNGUS OR MOLD AS WELL AS FOR IMPROPER GRADE MARKING DEFECTS THAT RENDER A PIECE UNABLE TO SERVE ITS INTENDED FUNCTION.

Prefabricated Wood Trusses

1. PREFABRICATED WOOD TRUSSES ARE DEFERRED DESIGN SUBMITTALS AND SHALL BE DESIGNED BY A REGISTERED ENGINEER HIRED BY THE TRUSS MANUFACTURER. DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF TPI 'DESIGN SPECIFICATION FOR METAL PLATE CONNECTED TRUSSES' AND AWC 'NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION'.
2. TRUSS MANUFACTURER SHALL VERIFY AND COORDINATE ALL TRUSS DIMENSIONS WITH THE ARCHITECT'S AND ENGINEER'S PLANS.
3. UNIFORM DESIGN LOADS FOR ROOF AND FLOOR TRUSSES ARE LISTED IN 'DESIGN CRITERIA'. CONCENTRATED OR LINE LOADS ARE AS INDICATED ON THE PLANS.
4. MAXIMUM DESIGN DEFLECTION UNDER DESIGN LIVE LOADS:
FLOOR TRUSSES SPAN/360
ROOF TRUSSES SPAN/240
5. TRUSS CONNECTOR PLATES SHALL BE MANUFACTURED FROM MINIMUM 20 GAGE GALVANIZED SHEET METAL WITH Fy=33 KSI AND Fu=45 KSI. GALVANIZING SHALL MEET ASTM A446.
6. TRUSS MANUFACTURER SHALL SUBMIT TRUSS SHOP DRAWINGS SIGNED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO FABRICATION, SHOWING TRUSS LAYOUTS, TRUSS PROFILES, LUMBER GRADES, CONNECTION DETAILS, BRACING DETAILS, BLOCKING DETAILS, AND DESIGN LOADS FOR EACH UNIQUE TRUSS. SHOP DRAWINGS SHALL CLEARLY INDICATE WHERE ADDITIONAL CONVENTIONAL FRAMING IS REQUIRED BY OTHERS TO COMPLETE OVERHANGS, PLATFORMS, OR CONNECTING ROOFS.
7. ROOF TRUSS UPLIFT FORCES SHALL BE NOTED ON THE TRUSS SHOP DRAWINGS, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING THE PROPERLY SIZED ANCHORAGE TO SECURE THE TRUSS TO THE SUPPORTS.
8. CONTRACTOR SHALL EXERCISE REASONABLE CARE IN HANDLING AND STORING TRUSSES PRIOR TO INSTALLATION. TRUSSES SHALL BE PROTECTED FROM WEATHER, WATER, SOIL AND FUNGUS-RELATED DETERIORATION. TRUSSES SHALL BE STORED ON BLOCKS VERTICALLY AND COVERED IF STORED FOR LONGER THAN ONE MONTH. TRUSSES SHALL NOT BE OVERLOADED DURING CONSTRUCTION WHILE TEMPORARILY STORING MATERIALS OR EQUIPMENT.
9. TRUSSES SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION. MINIMUM BRACING SHALL COMPLY WITH BCSI 'GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES'. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL PERMANENT BRACING, WALL SHEATHING, AND FLOOR/ROOF DECKING IS INSTALLED.
10. FIELD NOTCHING OR CUTTING OF TRUSS IS PROHIBITED. ALL MODIFICATIONS SHALL BE MADE UNDER THE DIRECTION OF THE TRUSS DESIGN ENGINEER.
11. ANY TRUSS REPAIRS MADE IN THE FIELD SHALL BE DOCUMENTED BY THE CONTRACTOR, A SIGNED AND SEALED ENGINEERED REPAIR FROM THE TRUSS MANUFACTURER SHALL BE REQUIRED.

Structural Steel

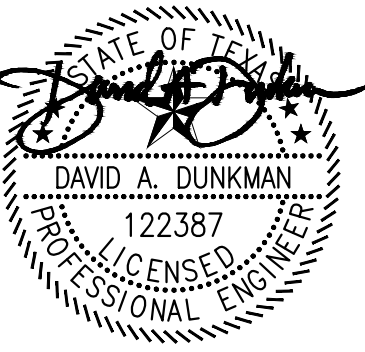
1. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING STANDARDS:
WIDE-FLANGE BEAMS/COLUMNS ASTM A992 Fy=50 KSI
SQUARE/RECTANGULAR TUBES ASTM A500, GR B/C Fy=50 KSI
ROUND TUBES ASTM A500, GR B/C Fy=48 KSI
PIPE COLUMNS ASTM A53, GR B Fy=35 KSI
ALL OTHER STEEL ASTM A36 Fy=36 KSI
2. STRUCTURAL STEEL CONNECTION MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:
ANCHOR RODS ASTM F1554 Fy=36 KSI, UNO
ELECTRODES (ARC WELDING) AWS 5.1 E70XX, UNO
PERMANENT BOLTS ASTM A325 3/4", UNO
HEAVY HEX NUTS ASTM A563
WASHERS ASTM F436
3. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 'DETAILING FOR STEEL CONSTRUCTION' AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS'.
4. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER AND ARCHITECT'S REVIEW BEFORE FABRICATION.
5. STANDARD BOLT HOLES IN STEEL SHALL BE 1/16" LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED UNLESS NOTED OTHERWISE.



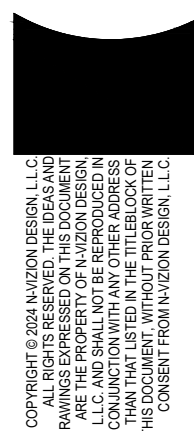
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Austin, Texas 78726
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**Engineers
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& Surveyors**
REGISTR #2487
ATS Project #: 2402208.1

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Weed Corley Fish
301 S. Bagdad Rd.
Llano, TX 78641

N-VIZION
FORMS • ENVIRONMENTS • IMAGES

Structural General Notes
Project Number: 230502
Nelson Design, LLC - 3500 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78748
Registration No.: TX P.E. Firm F-2228, TX 23489, LA 9413 MI
131089591, NV 6252, NC: 14883, OH: ARC-1917865

Date	Description
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10/24/24	Rev. 1 Permit Set

\$1.0

1. BUILDER MUST VERIFY ALL DIMENSIONS WITH ARCHITECTURE PRIOR TO START OF CONSTRUCTION.
2. CONTACT ENGINEER IF GROUNDWATER IS ENCOUNTERED OR OTHER SOIL CONDITIONS NOT IDENTIFIED IN GEOTECHNICAL REPORT ARE ENCOUNTERED.
3. TYPICAL GRADE BEAM SIZE $G_{BI} = 12" \times 24"$ & WIDENED GRADE BEAM $G_{B2} = 18" \times 24"$. SEE DETAILS S3.0
4. CONTRACTOR SHALL STRIP ALL INCOMPETENT MATERIALS (6" MIN) & BUILD PAD WITH COMPACTED SELECT FILL, FOLLOWING THE PROCEDURE OUTLINED IN THE GEOTECHNICAL REPORT AND SUMMARIZED ON S1.0.
5. FINISH FLOOR ELEVATION OF 100'-0" IS EQUIVALENT TO DATUM REFERENCED IN C.V.I. DRAWINGS.

NOTE:
CONDITIONS BASED ON SOIL ANALYSIS PREPARED
BY: ROCK ENGINEERING & TESTING LABORATORY
DATED: DECEMBER 19, 2023
REPORT #: G323294
AND RECOGNIZED ENGINEERING PRACTICES.
Q.U. = 2500 PSF IN SELECT FILL OR UNDISTURBED NATIVE SOILS
DESIGN P.I. = 16



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301 S. Bagdad Rd.
Leander, TX 78641

N-VIZION

Foundation Plan

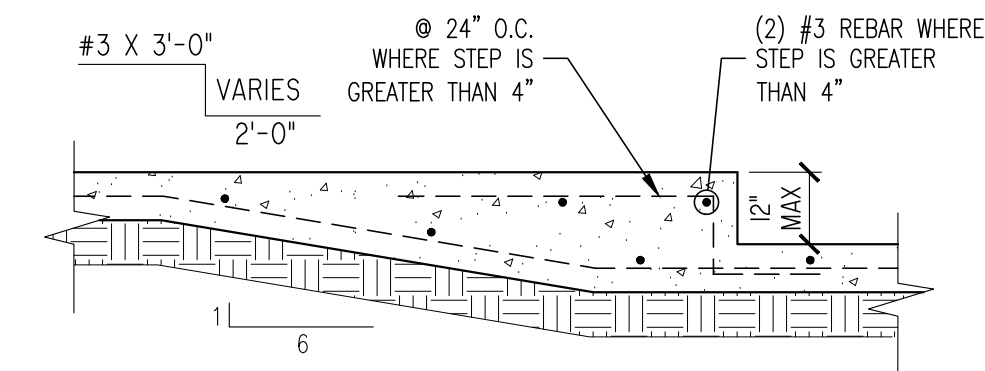
Project Number: 230502
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78730 p512.327.9995 www.n-vizion.net
Registration Nos.: TX PE Firm-F-12229, LA: 94-13 MI:
1307069591, NV: 8252, NC: 14883, OH: ARC: 1917885

Date:	Description:
06.07.24	STR Permit Set
10.24.24	Rev. 1 Permit Set

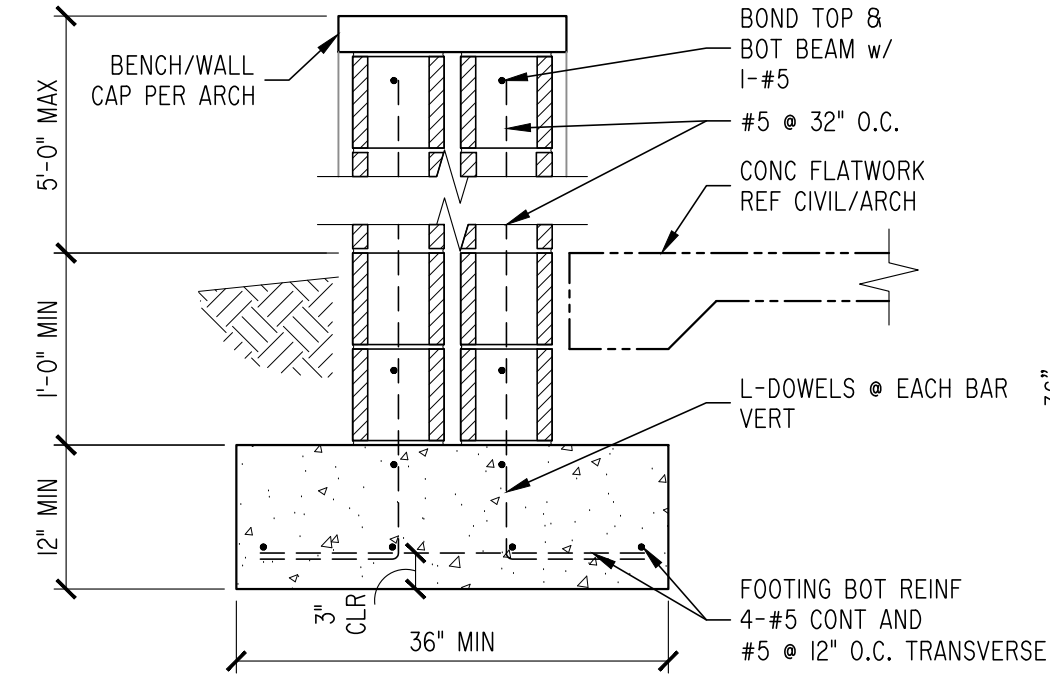
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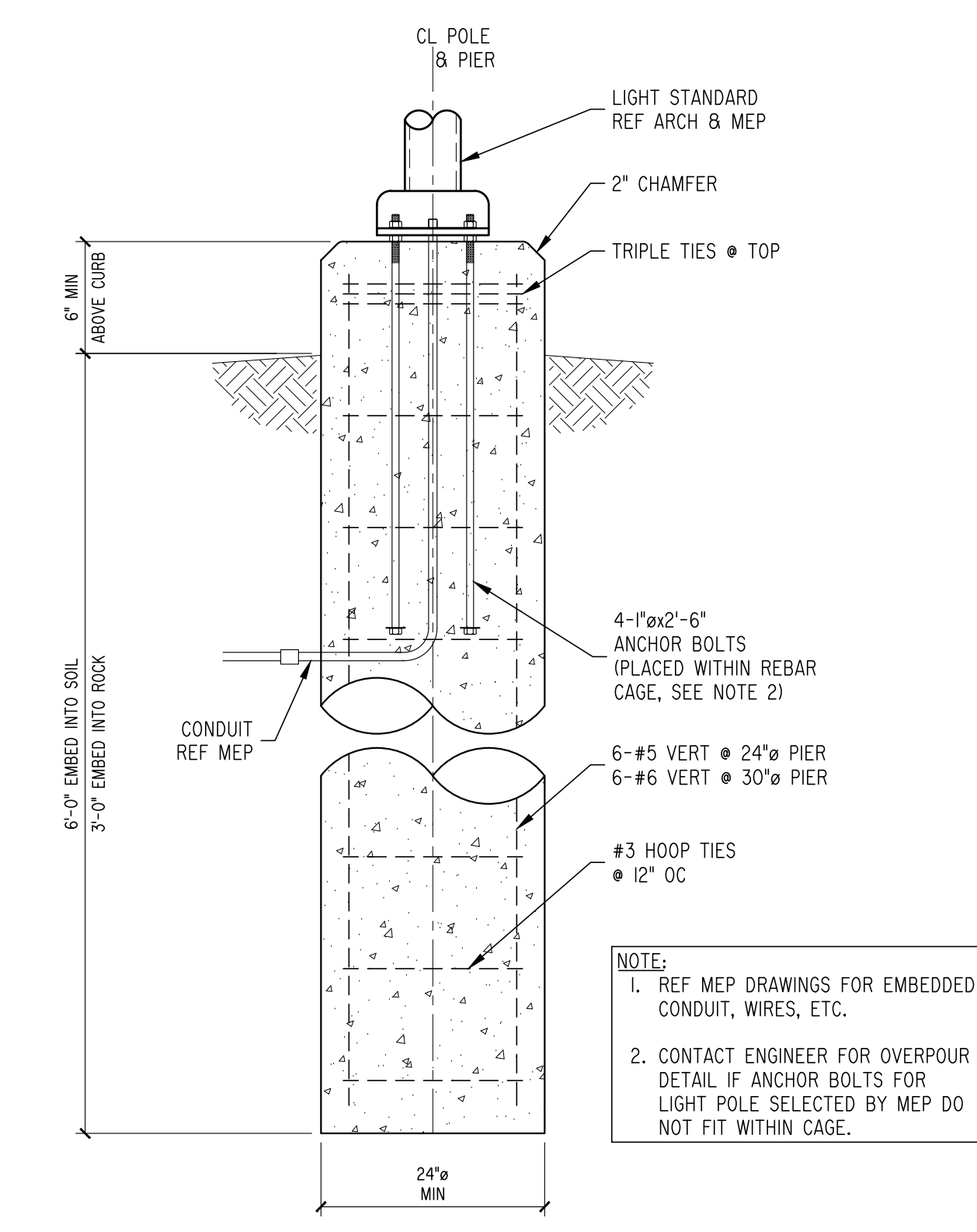
SCALE: 3/16"=1'-0"



6 DROP IN SLAB



13 CMU WALL CORNERS & ENDS



18 LIGHT POLE STANDARD DETAIL

FRAMING NOTES

1. ROOF DESIGN IS BASED ON MAXIMUM METAL ROOF DEAD LOAD OF 500 LBS/SQUARE. CONSULT ENGINEER IF OTHER MATERIALS ARE USED.
2. ROOF TRUSS DESIGN BY OTHERS SHALL BE BASED ON TCDL 10psf, BCDL 5psf, TCDL 20psf (REDUCIBLE FOR SLOPE AND AREA) & MAX LIVE LOAD DEFLECTION L/240.
3. EXTERIOR WALL FINISH TO LARGELY CONSIST OF ADHERED WALL TILE 10psf MAX WEIGHT. CONSULT ENGINEER IF OTHER MATERIALS ARE USED.
4. ALL JOISTS & RAFTERS TO BE 2 X 6 @ 24" O.C. UNLESS NOTED OTHERWISE.
5. ALL HEADERS TO BE A MINIMUM OF (3) 2 X 6 UNLESS NOTED OTHERWISE.
6. ALL ROOF AND FLOOR TRUSSES ASSUMED TO BEAR AT ENDS ONLY, U.N.O.
7. PROVIDE MINIMUM HANGER BY SIMPSON FOR ALL BEAM TO BEAM CONNECTIONS UNLESS SPECIFIC HANGER SIZE IS CALLED OUT ON PLAN. TRUSS HANGERS BY TRUSS MANUFACTURER, U.N.O.
8. NOTCH BEAMS @ SLOPED ROOFS AND REPAIR WHERE INDICATED ON PLANS. BEAM TAPERS HAVE BEEN DESIGNED BASED ON A MINIMUM BEAM DEPTH EQUAL TO THE VERTICAL DEPTH OF THE RAFTERS AT THE INTERIOR FACE OF THE STUD WALL (I.E., THE DEPTH FROM THE ROOF DECK TO THE TOP OF THE TOP PLATE.)
9. (4) PLY BEAMS TO BE BOLTED W/ (2) ROWS OF 1/2" W THROUGH BOLTS @ 12" O.C. ROWS SHOULD BE LOCATED @ FROM THE TOP AND BOTTOM OF THE BEAM.
10. COORDINATE CHASE OPENINGS THROUGH TRUSSES WITH ARCH & MEP DRAWINGS.
11. WHERE ARCHITECTURAL CEILING ARE SHOWN LOWER THAN BOTTOM OF ROOF TRUSSES (BY OTHERS), CONTRACTOR SHALL (A) FURR-DOWN FROM BOTTOM OF ROOF FRAMING AND ADD BOTTOM CHORD BRACING PER TRUSS MANUFACTURER (10'-0" O.C. MIN) OR (B) STICK-FRAME 2 X 6 @ 24" O.C. MAX 10'-0" SPAN, 2 X 8 @ 24" O.C. MAX 13'-6" SPAN, AND 2 X 10 @ 24" O.C. MAX 16'-0" SPAN.
12. BRACE ALL LOW STEEL OR WOOD BEAMS TO ADJACENT PARALLEL TRUSSES @ 10'-0" O.C. MAX.
13. BRACE ALL COLUMNS NOT EXTENDED TO ROOF STEEL IN PLANE OF WALL BY ATTACHING 2x STUDS TO EACH SIDE WITH 1/2" DIA THREADED STUDS @ 24" OC

LEGEND:

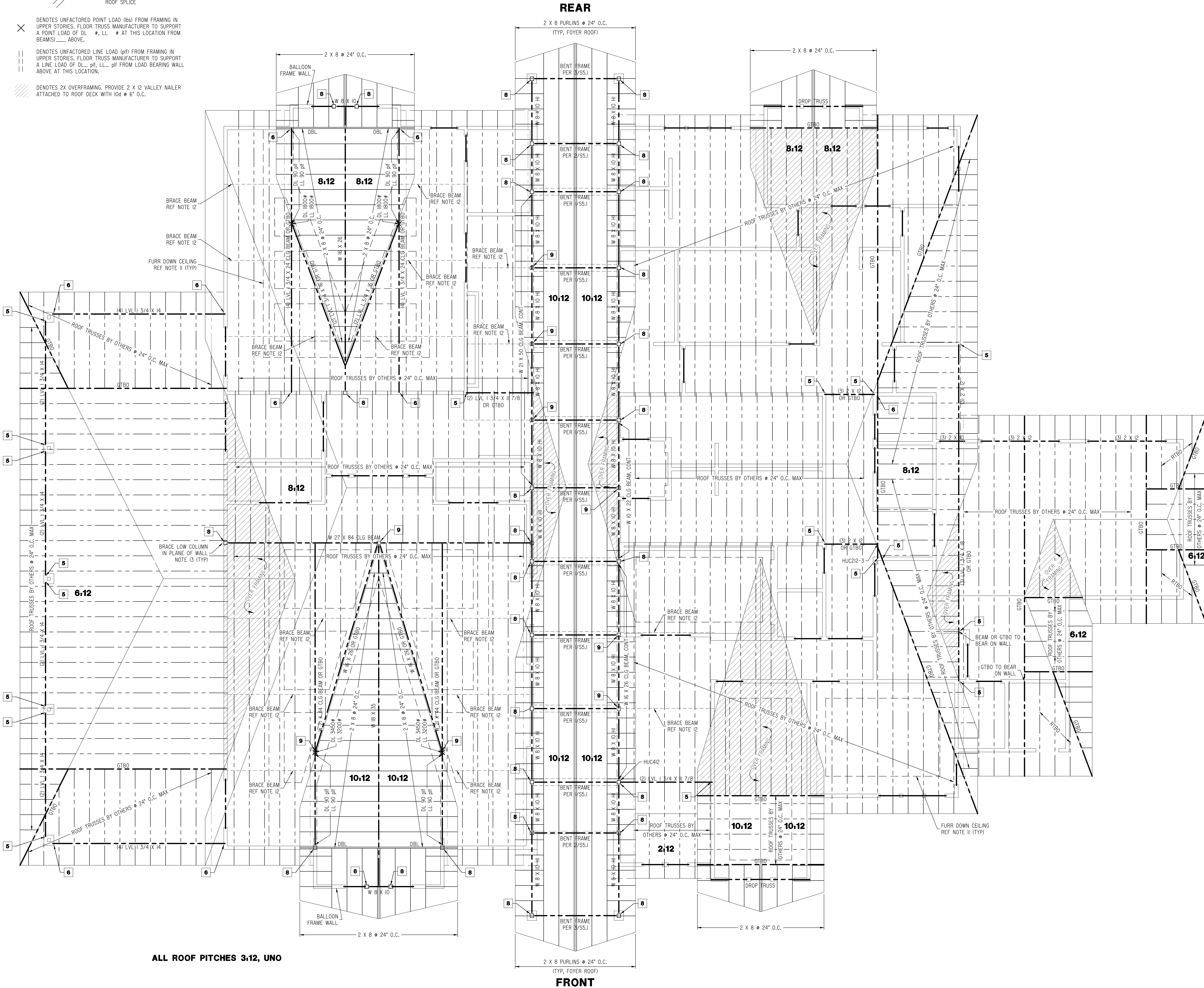
- | | |
|---|-------------------------------------|
| 1 | (2) 2 X 4 S.Y.P. #2 |
| 2 | (3) 2 X 4 S.Y.P. #2 |
| 3 | (4) 2 X 4 S.Y.P. #2 |
| 4 | (5) 2 X 4 S.Y.P. #2 |
| 5 | (2) 2 X 6 S.Y.P. #2 |
| 6 | (3) 2 X 6 S.Y.P. #2 |
| 7 | (4) 2 X 6 S.Y.P. #2 |
| 8 | HSS 5 X 5 X 1/4 TO FDN |
| 9 | HSS 5 X 5 X 1/4 STUB COLUMN ON BEAM |
- REPRESENTS MIN. # OF STUDS FOR END SUPPORT OF MEMBER.

FRAMING LEGEND

- | | |
|-----|--|
| --- | TRUSS BY OTHERS |
| --- | BEAM OR GIRDER TRUSS BY OTHERS |
| --- | JOIST |
| --- | LOAD BEARING WALLS |
| --- | RIDGE OR VALLEY SUPPORT |
| --- | SUPPORT AND LOCATION |
| --- | PURLIN FROM WALL OR BEAM BELOW TO SUPPORT RAFTERS AT LOCATIONS SHOWN ON PLAN |
| --- | ROOF SPLICE |

- ✕ DENOTES UNFACTORED POINT LOAD (lbs) FROM FRAMING IN UPPER STORIES, FLOOR TRUSS MANUFACTURER TO SUPPORT A POINT LOAD OF DL #, LL # AT THIS LOCATION FROM BEAM(S) _____ ABOVE.
- || DENOTES UNFACTORED LINE LOAD (lb/ft) FROM FRAMING IN UPPER STORIES, FLOOR TRUSS MANUFACTURER TO SUPPORT A LINE LOAD OF DL #, LL #, LL #, LL # FROM LOAD BEARING WALL ABOVE AT THIS LOCATION.
- /// DENOTES 2X OVERFRAMING. PROVIDE 2 X 12 VALLEY NAILER ATTACHED TO ROOF DECK WITH 10d @ 6" O.C.

STUD SCHEDULE	
BEARING WALL 12'-0" PLATE MAX	2 X 6 SYP/SPF STUD GRADE @ 16" O.C.
BEARING WALL TALLER THAT 12'-0"	2 X 6 SYP #2 GRADE @ 16" O.C.
NONBEARING WALL	2 X 4 SYP/SPF STUD GRADE @ 24" O.C. (OR BETTER REF ARCHITECT PLANS)



ALL ROOF PITCHES 3:12, UNO

ROOF FRAMING PLAN

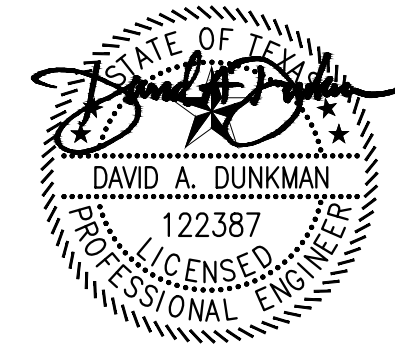
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REGISTR. #2487
ATS Project #: 2402086.1

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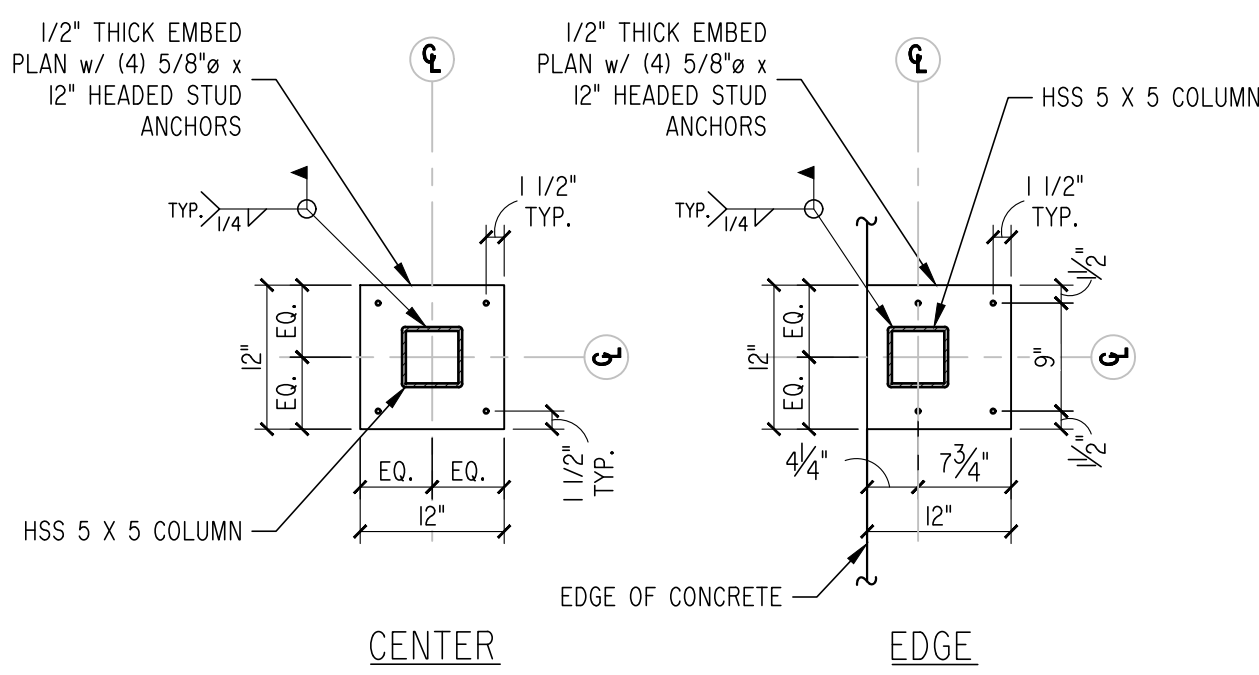
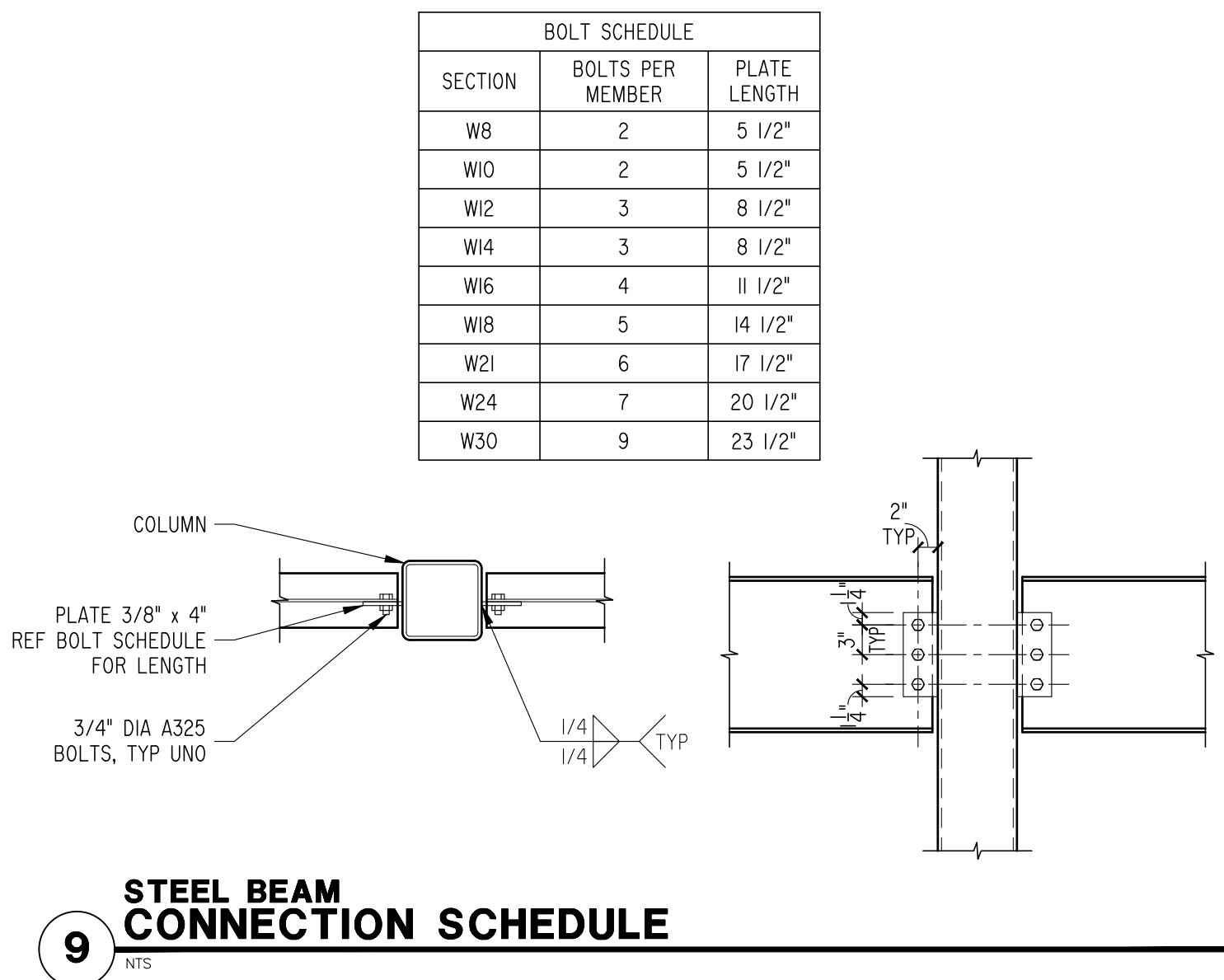
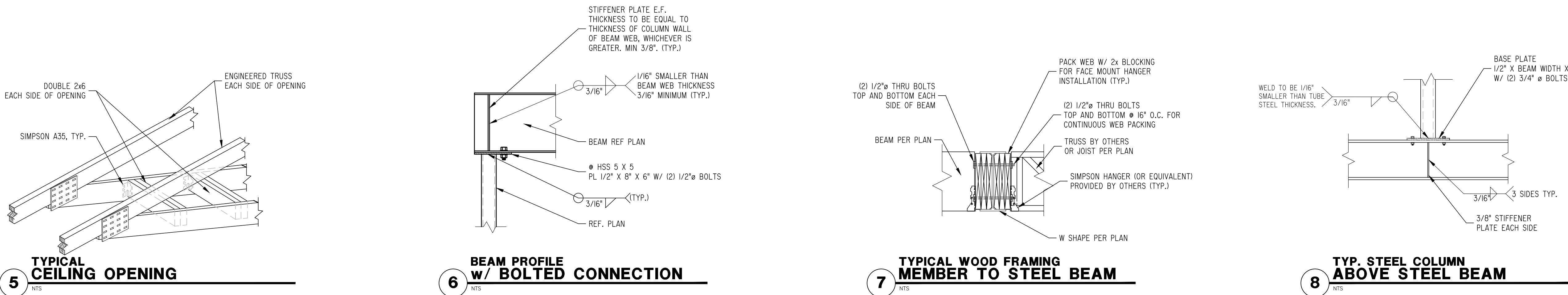
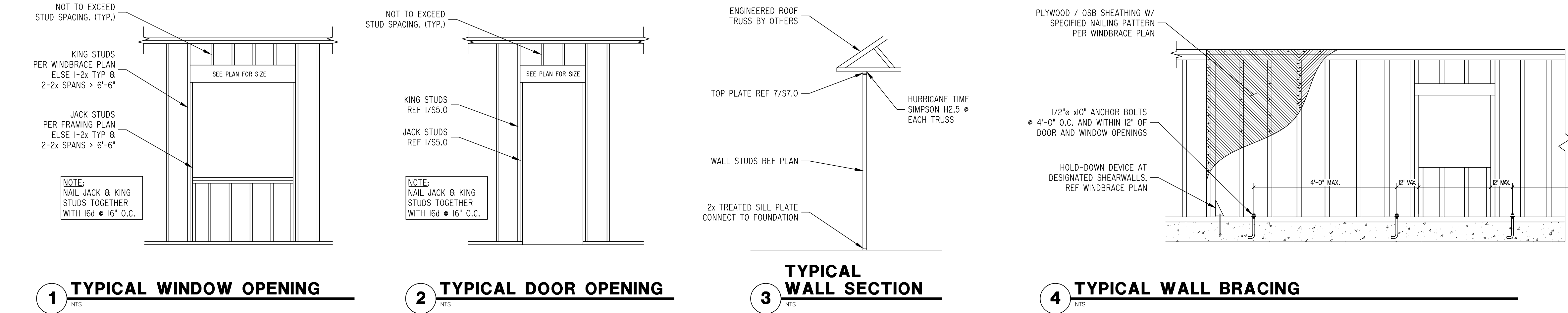
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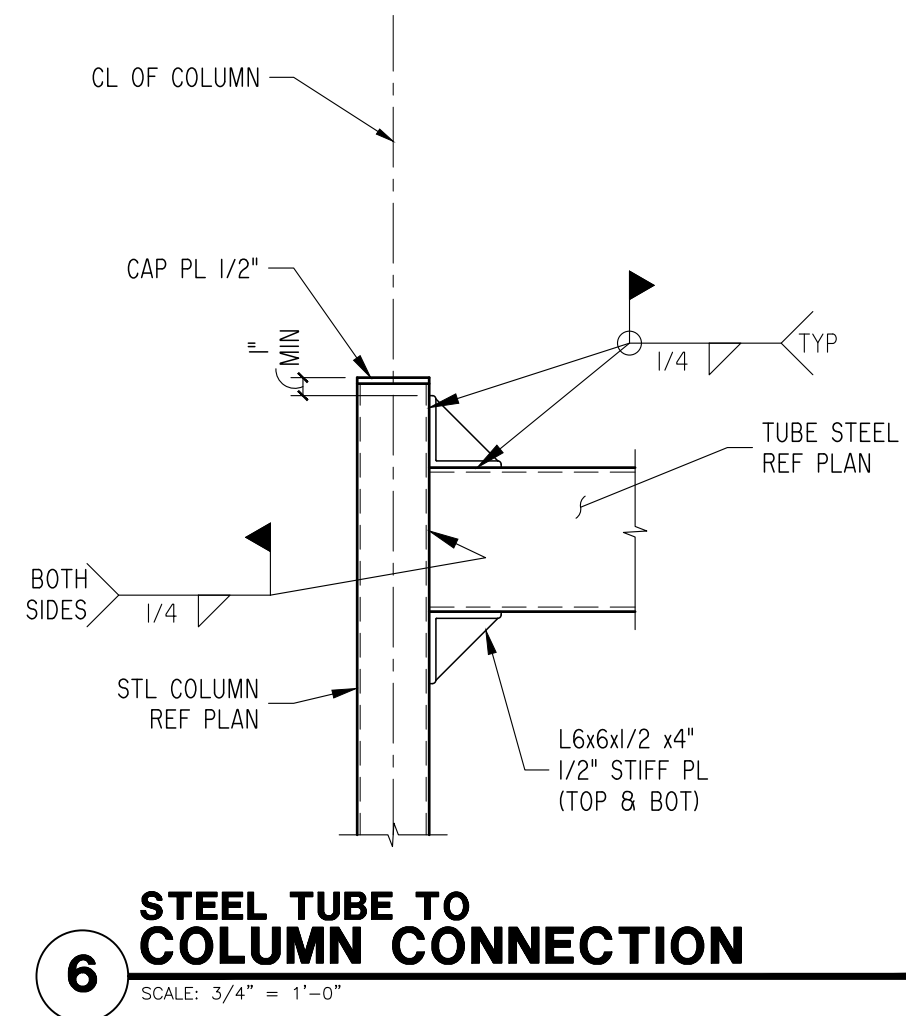
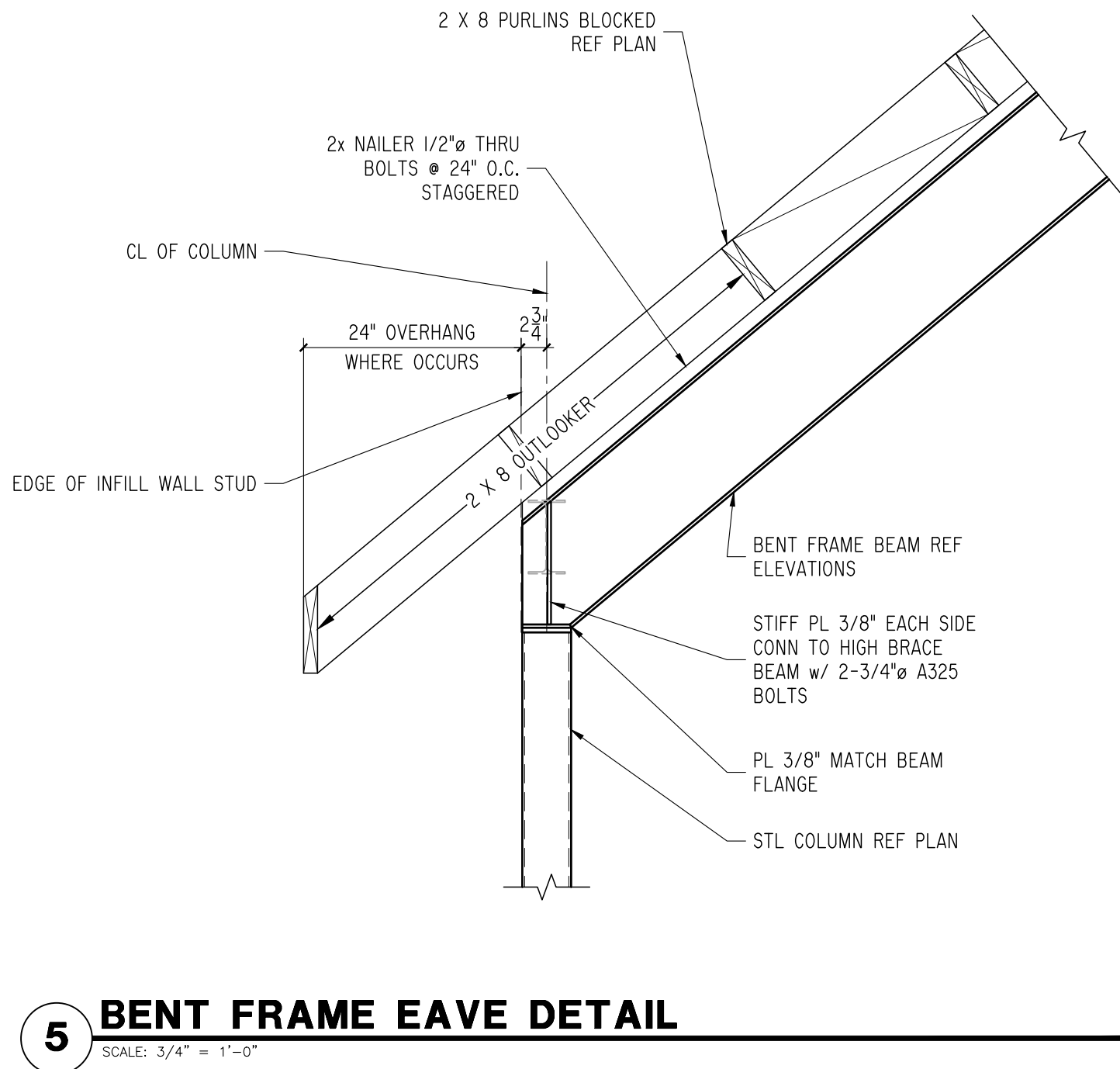
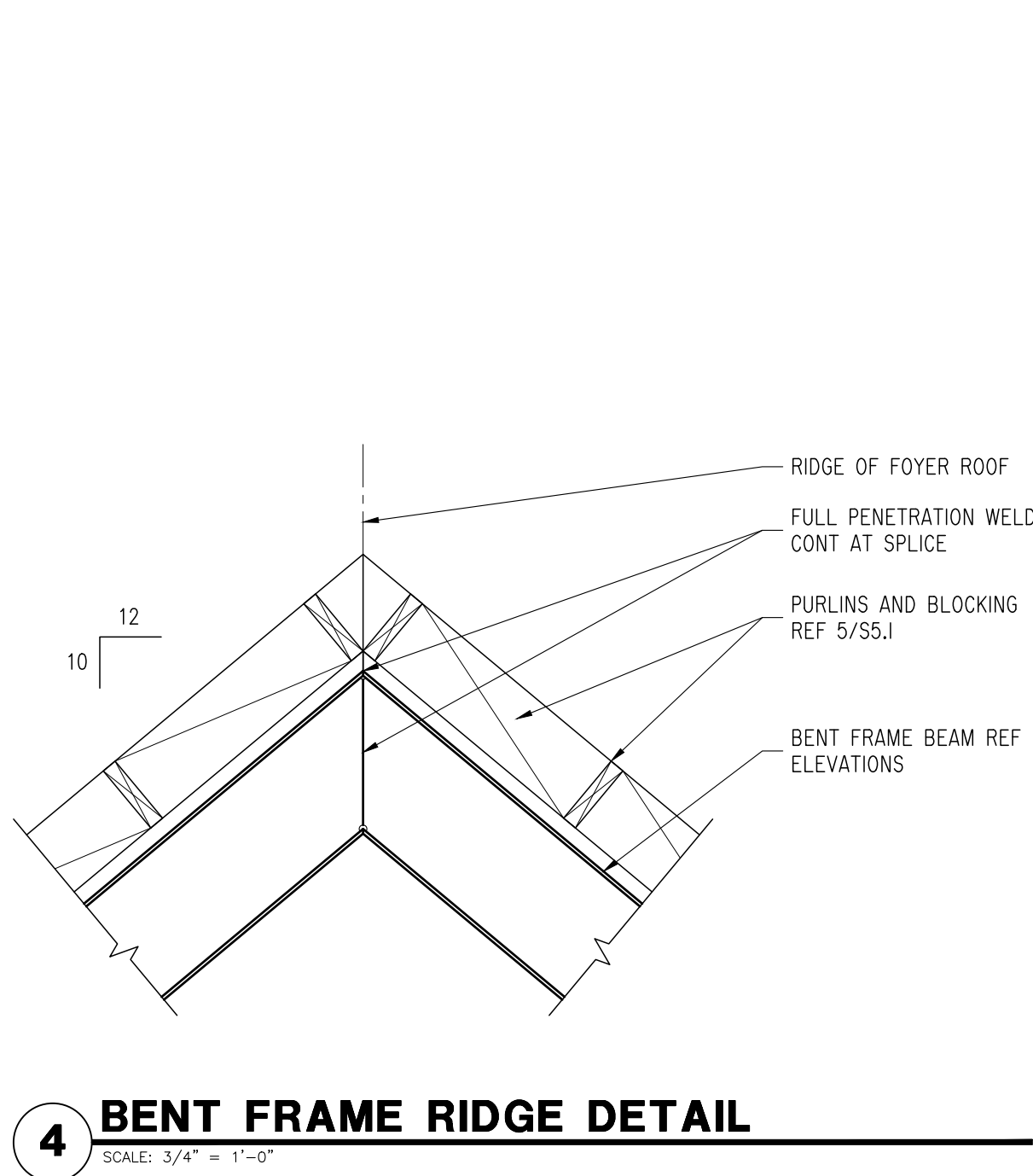
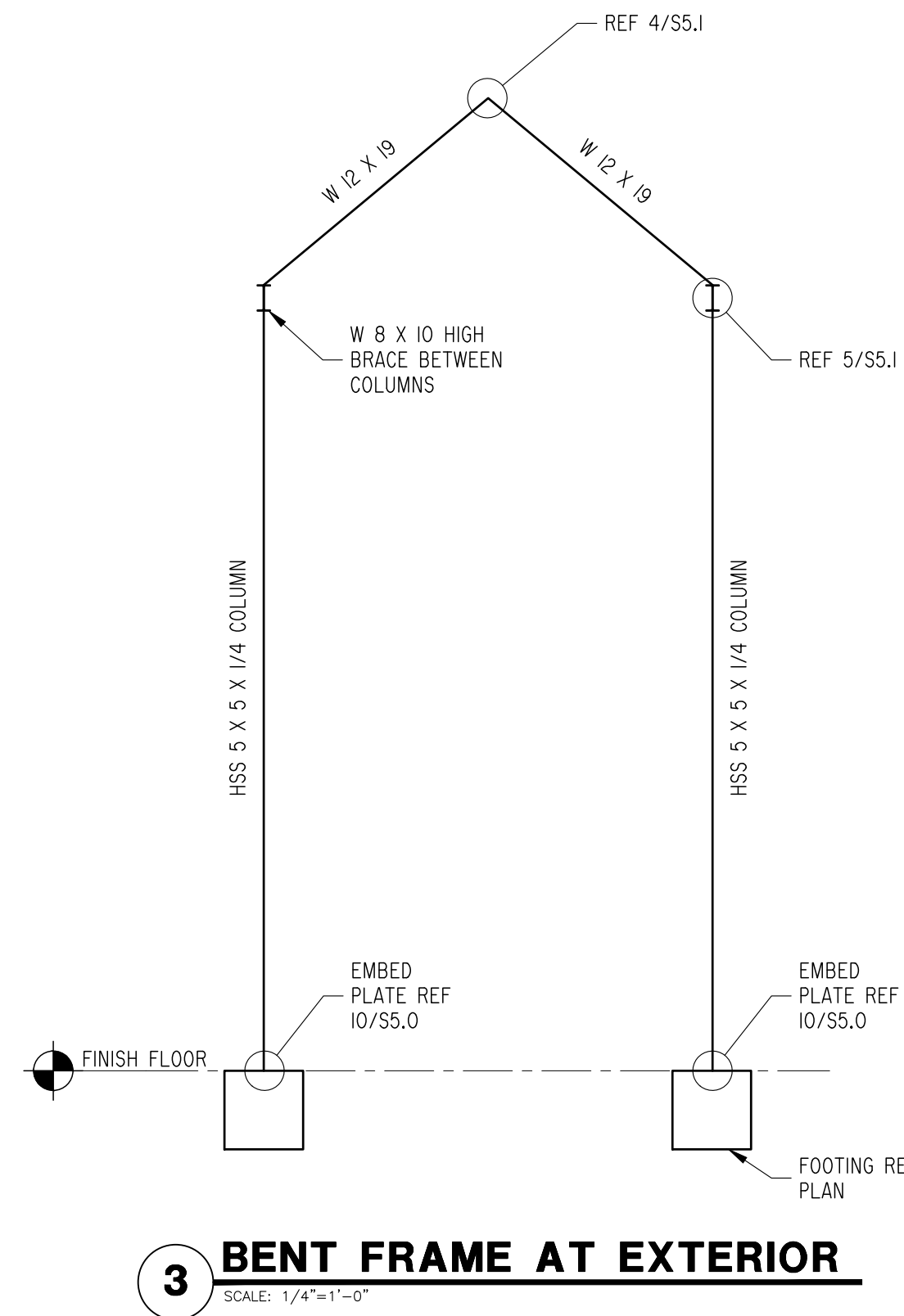
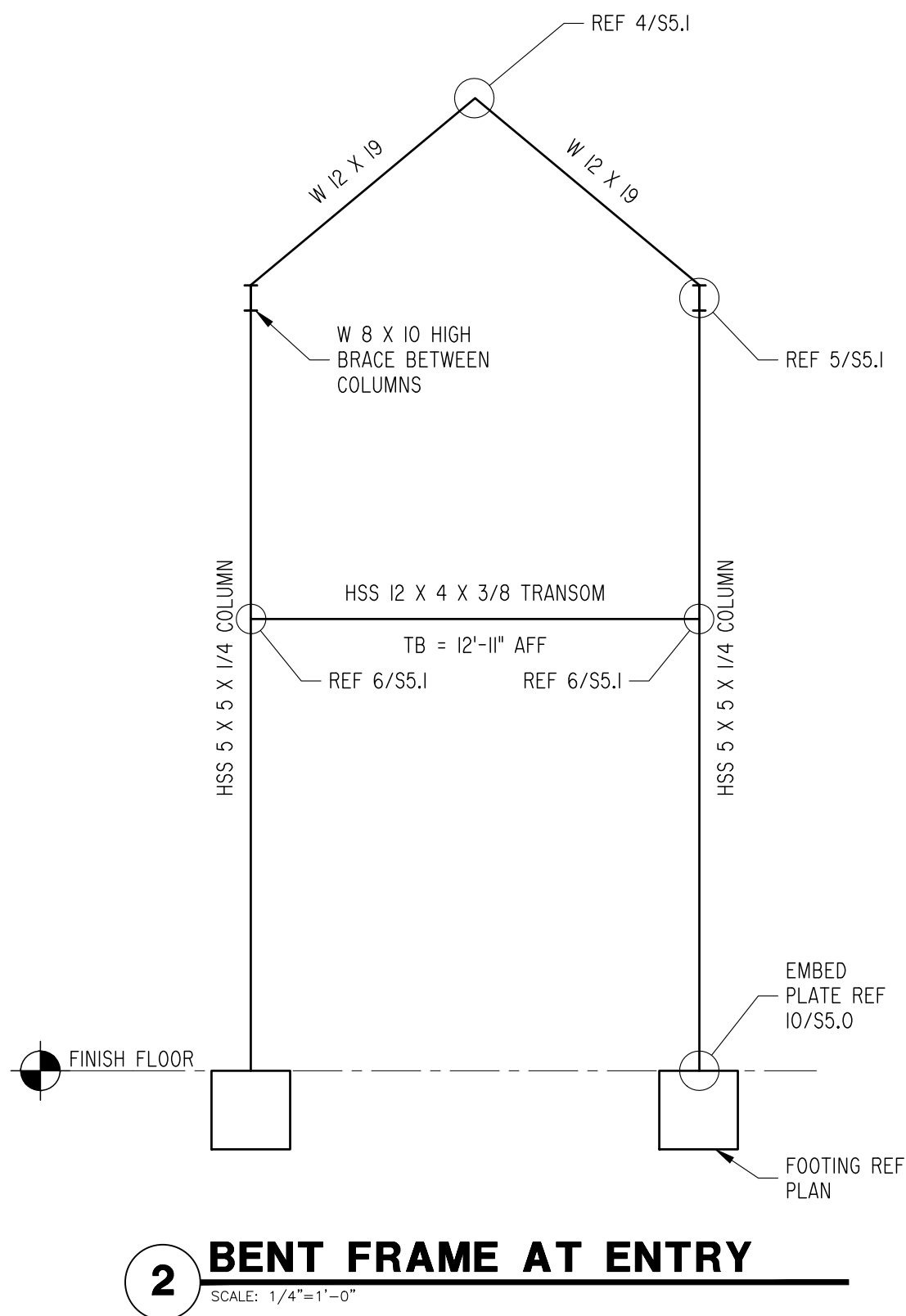
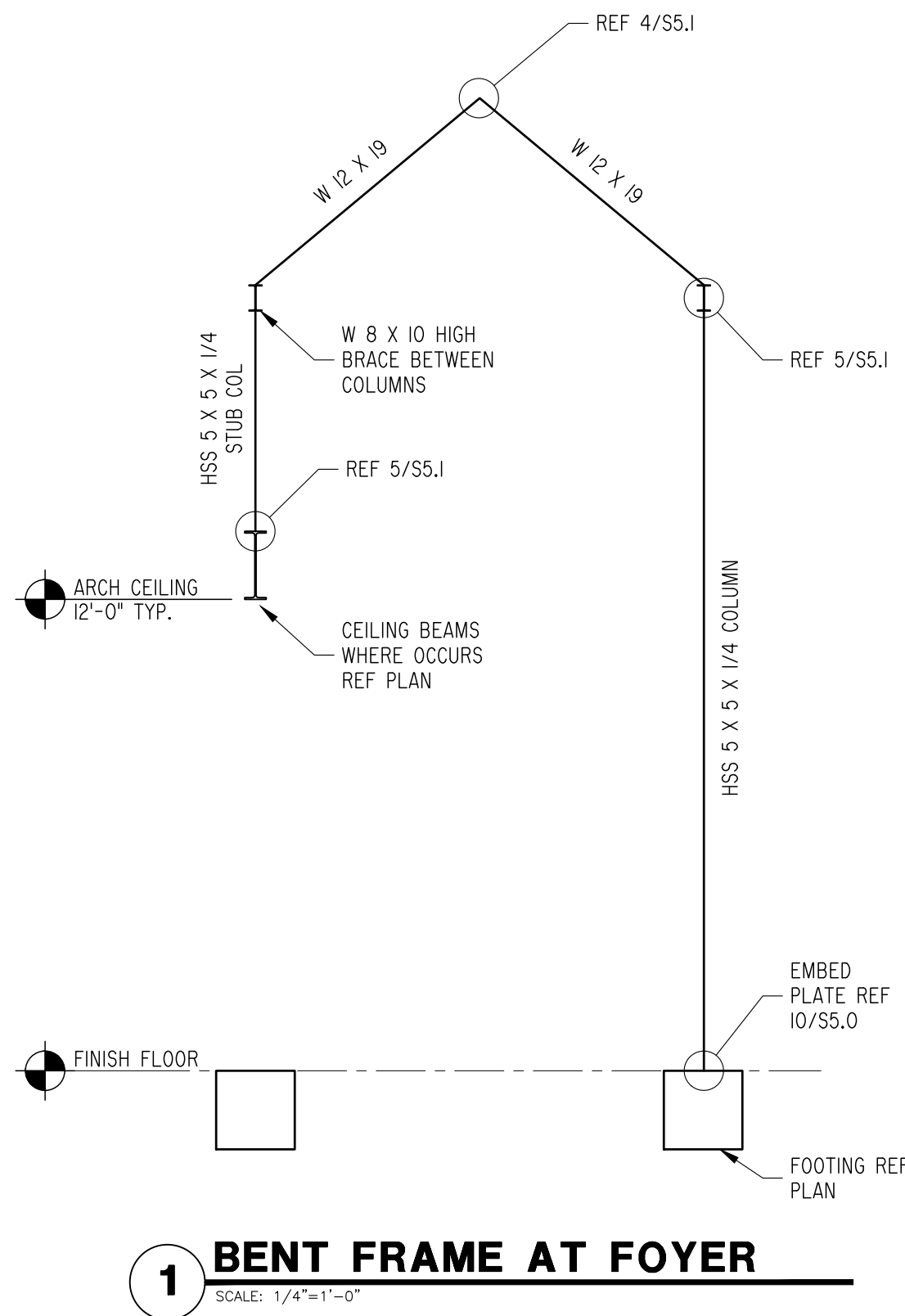
Roof Framing Plan
Project Number: 230502
N-Vision Design, LLC - 5950 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-2228, TX 25489, LA 9413 MI.
1301089591, NV 6252, NC: 14883, OH: ARC-1917865

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10/24/24	Rev. 1 Permit Set

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Date	Description
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SHEATHING & BRACING SCHEDULE

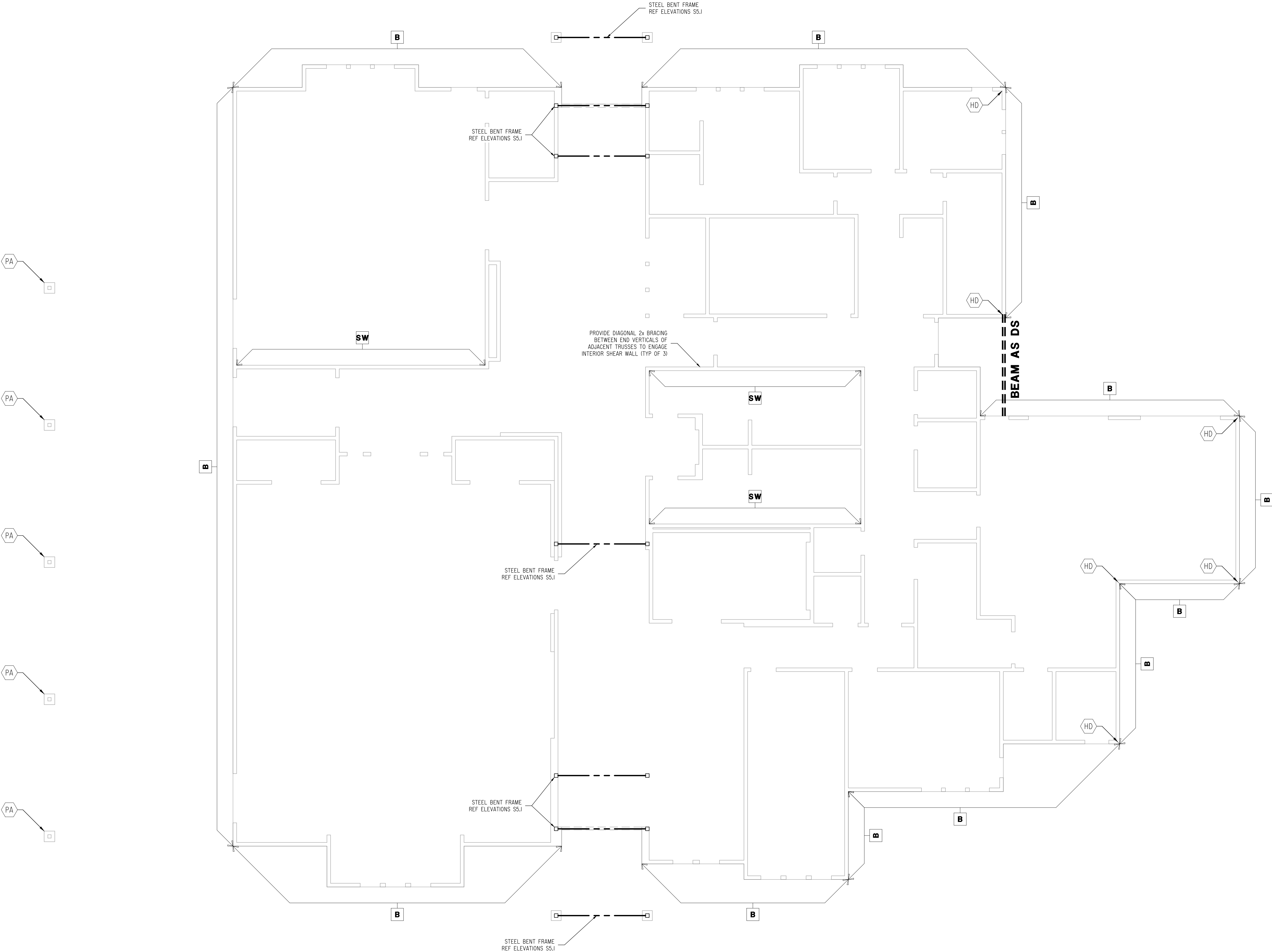
- SW** 1/2" THICK GYPSUM WALL BOARD (5/8" THICK AT FIREWALL) W/5d NAILS OR #6 SCREWS AT 7" O.C. AT TOP & BOTTOM PLATES AND STUDS.
- T** RED-STRUCTURAL GRADE THERMO-PLY (TER 1004-01) INTERIOR SHEATHING FASTENED TO STUDS SPACED 16" O.C. MAX USING MIN. 16GA, 1" CROWN STAPLES OR EQUAL.
- EXTERIOR SIDES OF EXTERIOR WALLS:
15/32" CDX PLYWOOD APA-RATED SHEATHING (ONE SIDE), BLOCKED, NAILED
B W/ 10d COMMON NAILS @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD
UNLESS NOTED OTHERWISE, NO OSB PERMITTED DUE TO TILE FINISH
- 15/32" CDX PLYWOOD APA-RATED SHEATHING (ONE SIDE), BLOCKED, NAILED
A W/ 10d COMMON NAILS @ 4" O.C. AT EDGES AND 12" O.C. IN FIELD
**UNLESS NOTED OTHERWISE, NO OSB PERMITTED DUE TO TILE FINISH*
- STRAPPED FORCE-TRANSFER-AROUND-OPENING WALL PER DETAIL 8/S-7.0
- S**

NOTES

1. SHEAR WALL (**A**, **B**, **SW**)
SILL PLATE ANCHORAGE:
EXTERIOR: 1/2"x 10" ANCHOR BOLTS @ 48" O.C.
INTERIOR: HILTI X-U P.A.F. (OR EQUAL) @ 8" O.C.
2. STANDARD SILL PLATE ANCHORAGE:
EXTERIOR: 1/2"x 10" ANCHOR BOLTS @ 72" O.C.
INTERIOR: HILTI X-U P.A.F. (OR EQUAL) @ 16" O.C.
ALL WALLS: ANCHORS/P.A.F., 12" FROM DOORS & ENDS.

CALLOUTS

- DS** DRAG STRUT PER DETAILS 2-4/S-7.0
OR OTHERWISE ENGAGE INTERIOR
SHEAR WALLS PER 5-6/ST.0
- HD** SIMPSON HDU5-SDS2.5 HOLD-DOWN ON (12)x STUDS
WITH 5/8" #6 SCREW ANCHOR
- STHD** SIMPSON STHD14 HOLD DOWN (CAST IN)
- PA** POSITIVE ANCHORAGE PER DETAIL 9/S-7.0
- FT** SIMPSON MTSC52 FLOOR TIE, CONNECT 2-2X
STUD ABOVE FLOOR TO 2-2X BELOW,
CENTERED ON FLOOR DEPTH, U.N.O.

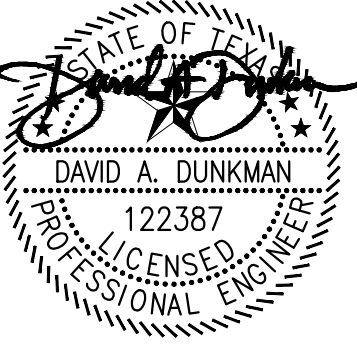


WINDBRACE PLAN

SCALE: 3/16"=1'-0"

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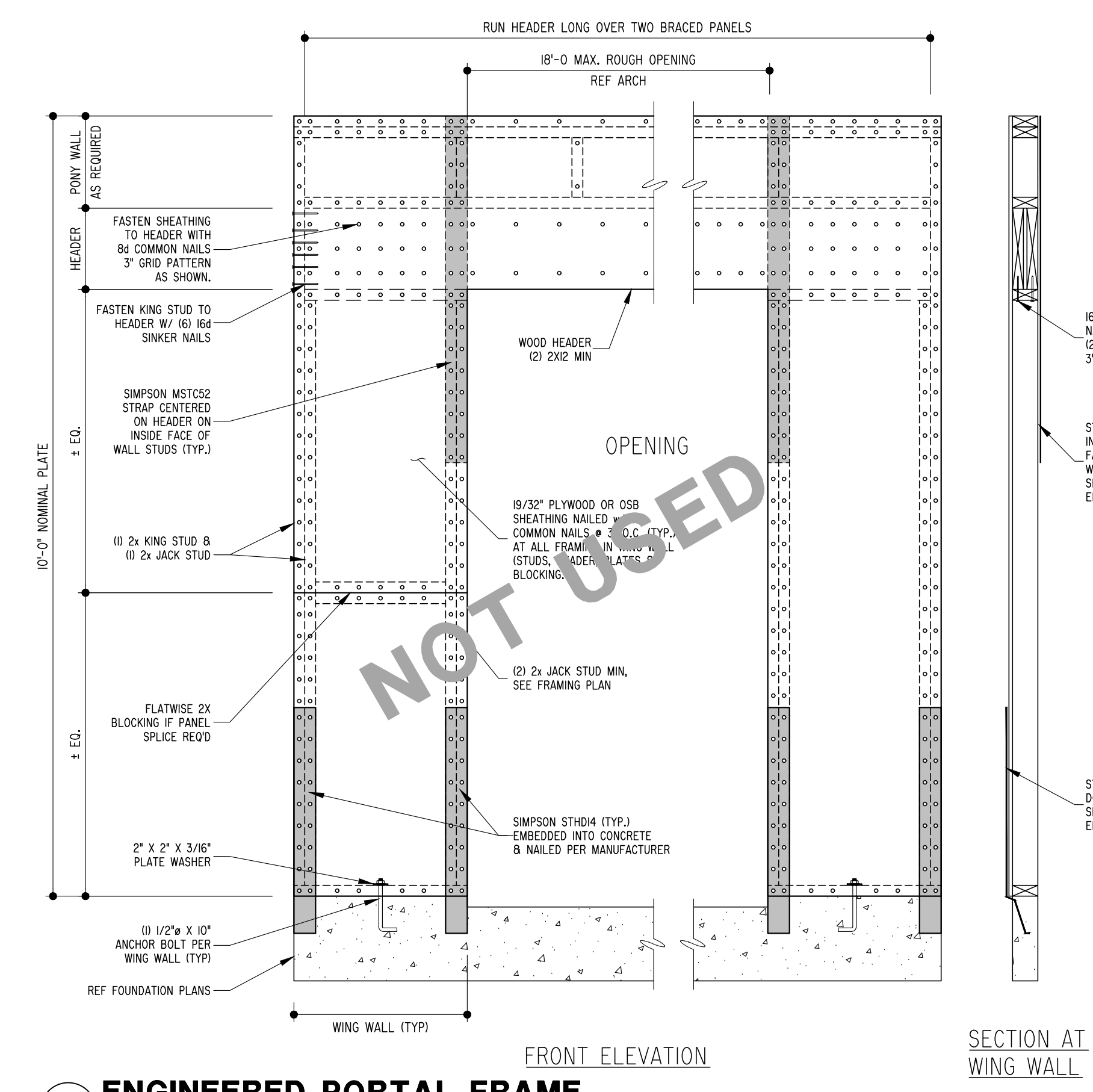
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Windbrace Plan

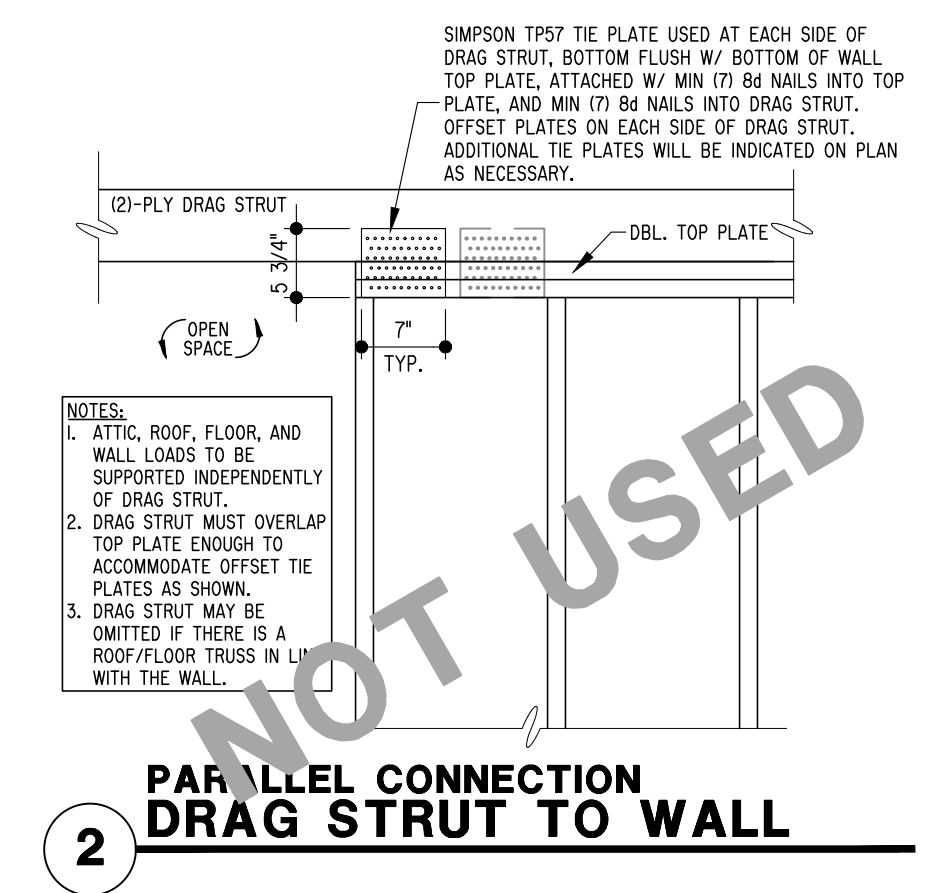
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N-vizion Design, LLC - 5920 Shepherd Mountain Cove, Ste. 2-250
N-vizion Design, LLC - 5920 Shepherd Mountain Cove, Ste. 2-250
Registration No.: TX PE Firm F-12228, TX 25489, LA 9413 MI
1301089591, NV 6252, NC: 14883, OH: ARC-1917865

Date	Description	Drawn	Rev.	Permit Set
10/24/24	10/24/24	10/24/24	10/24/24	10/24/24

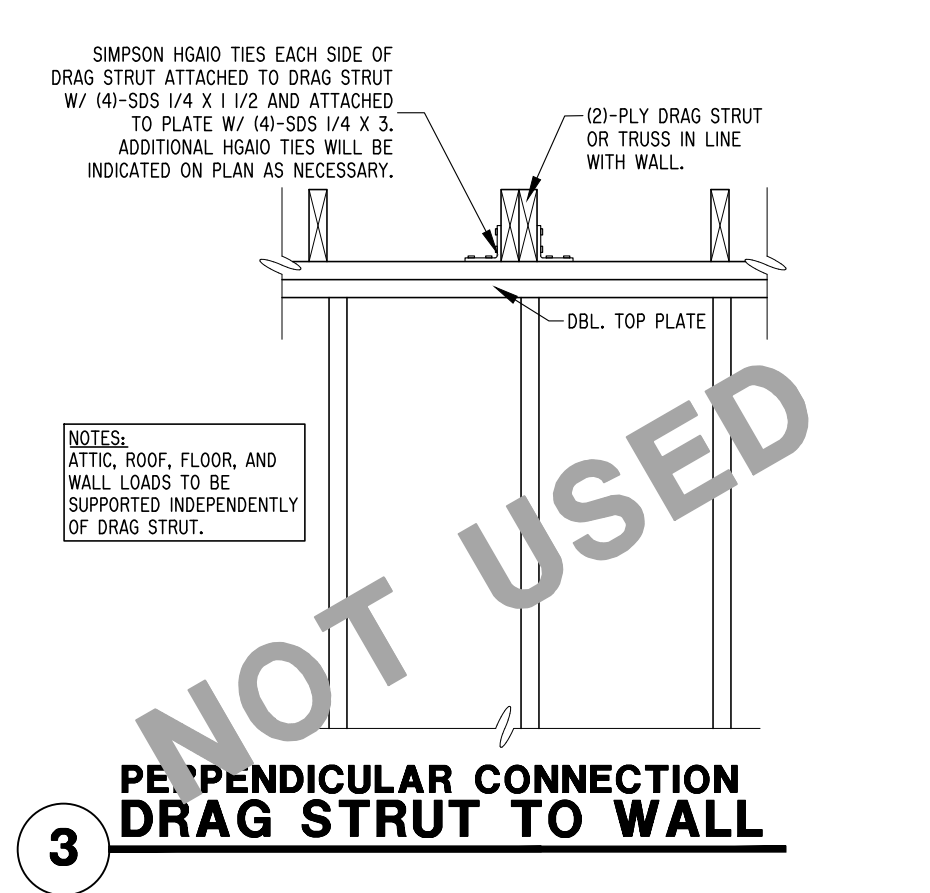
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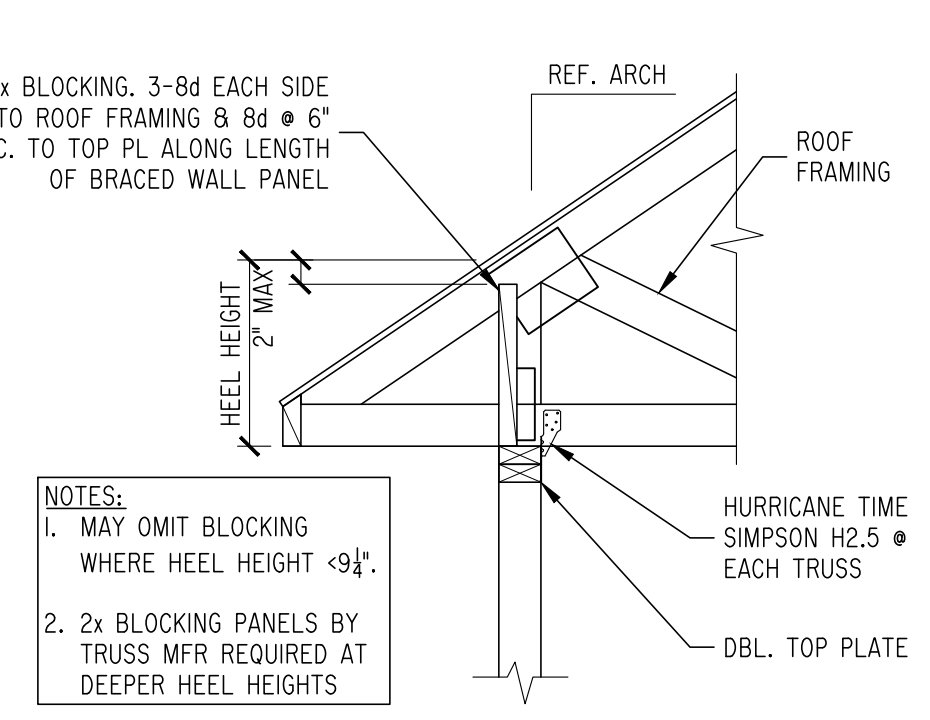
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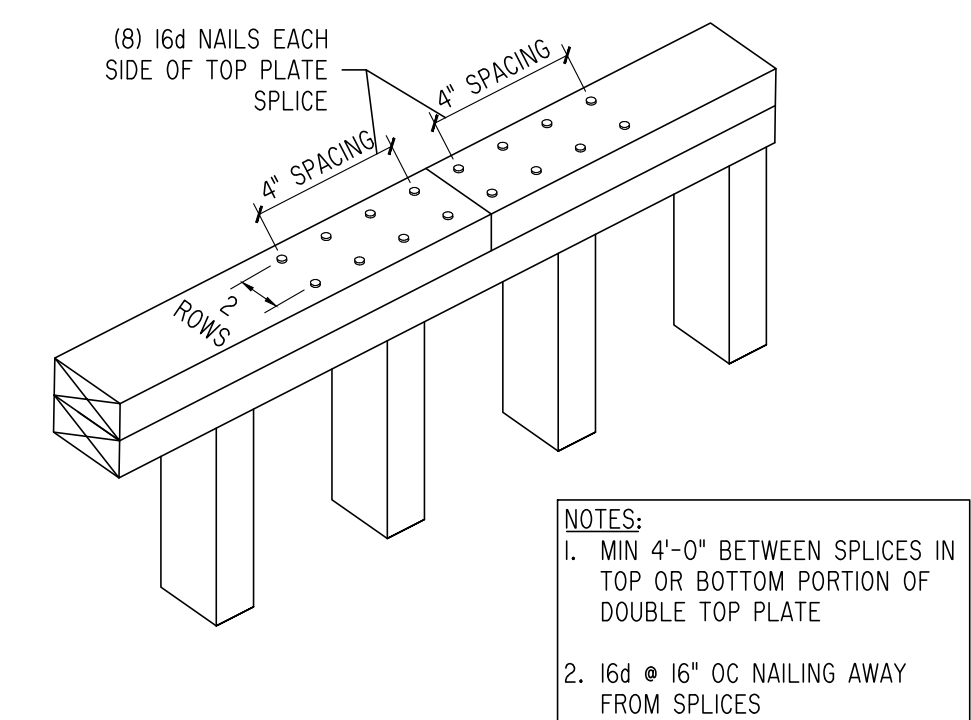
2 PARALLEL CONNECTION DRAG STRUT TO WALL



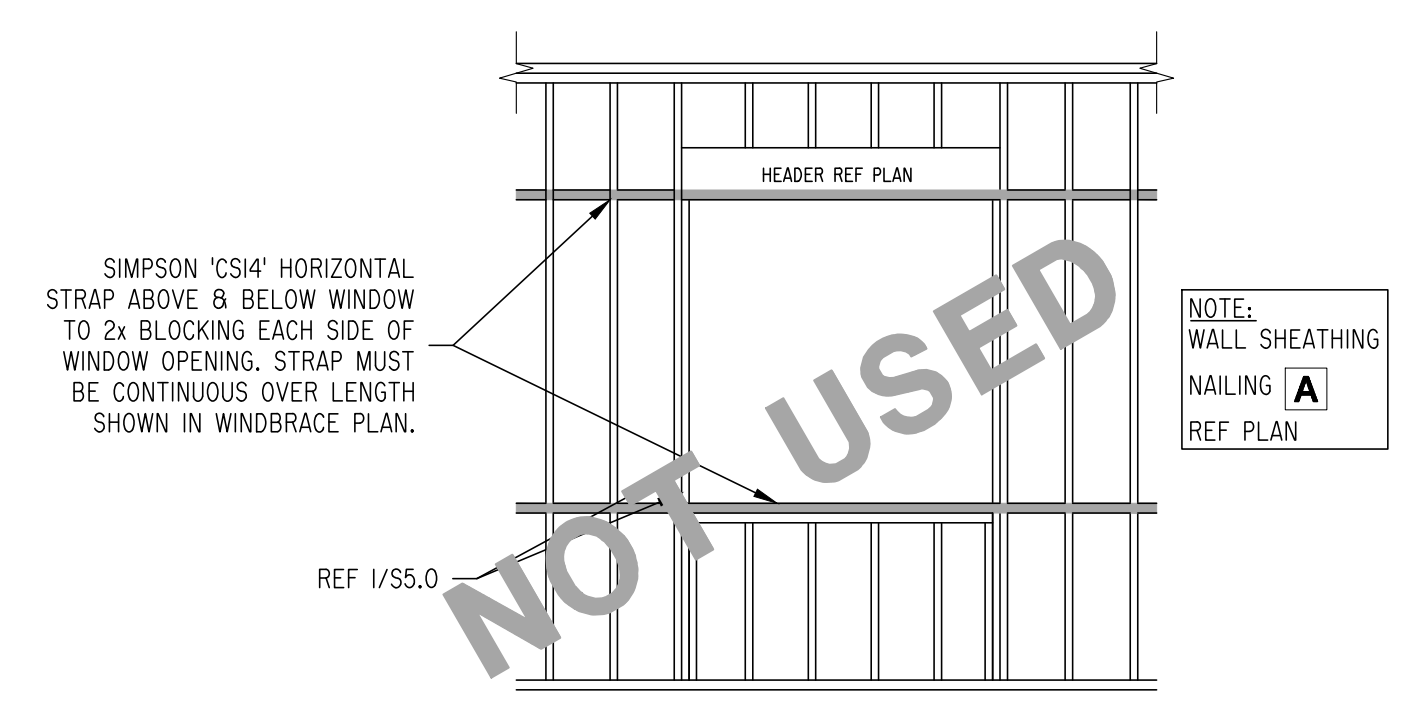
3 PERPENDICULAR CONNECTION DRAG STRUT TO WALL



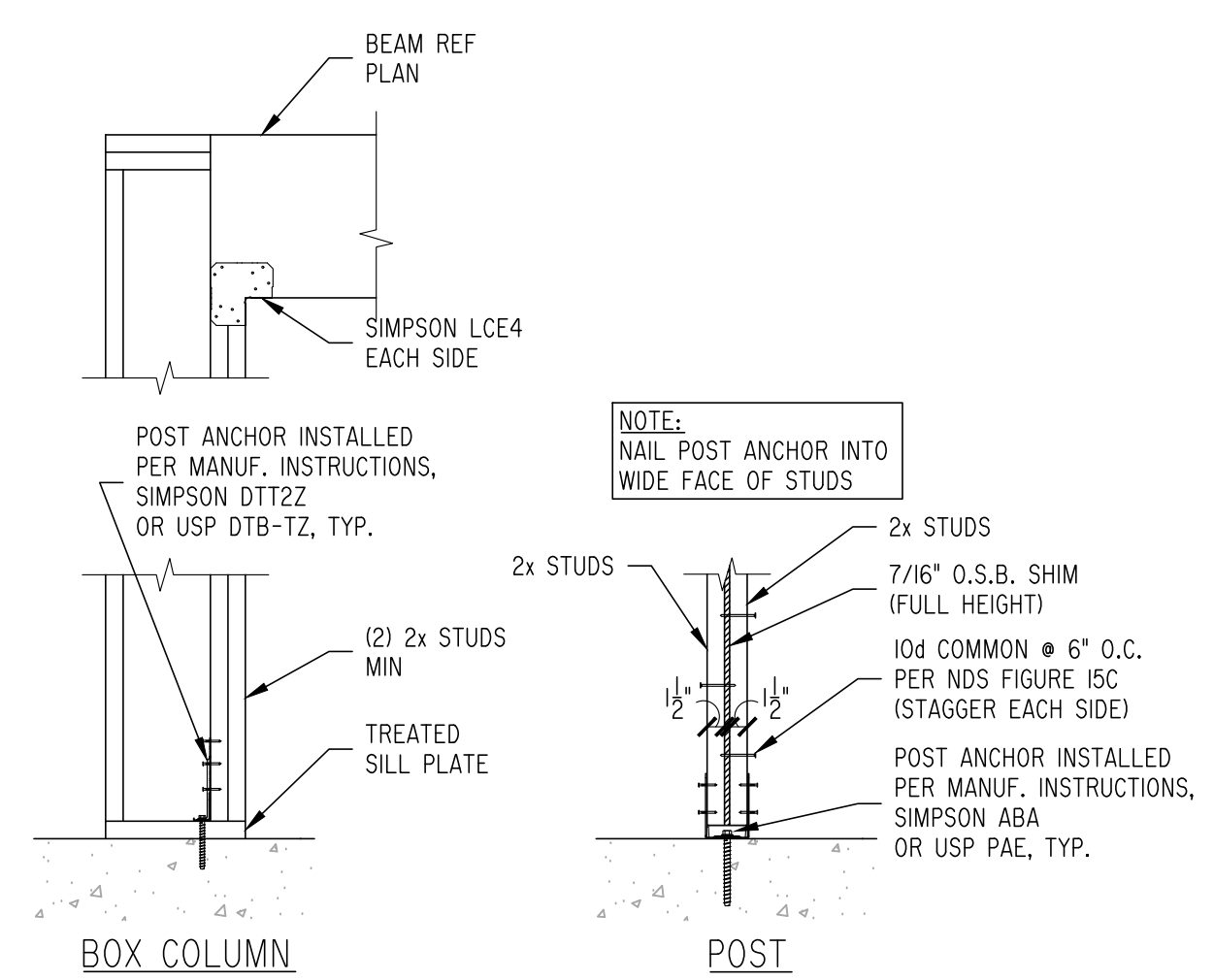
4 BLOCKING AT RAFTER/TRUSS HEEL



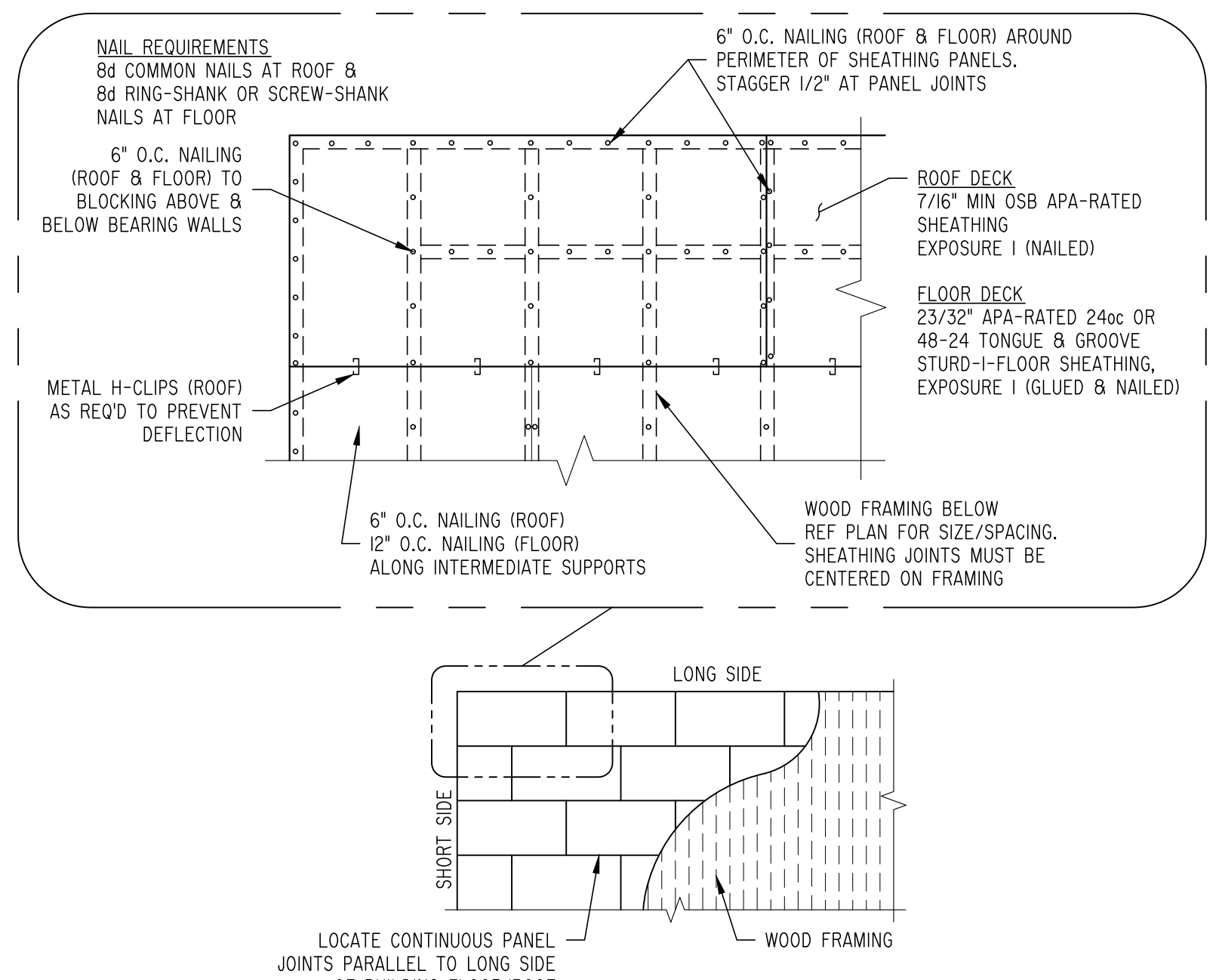
7 DOUBLE TOP PLATE SPLICE



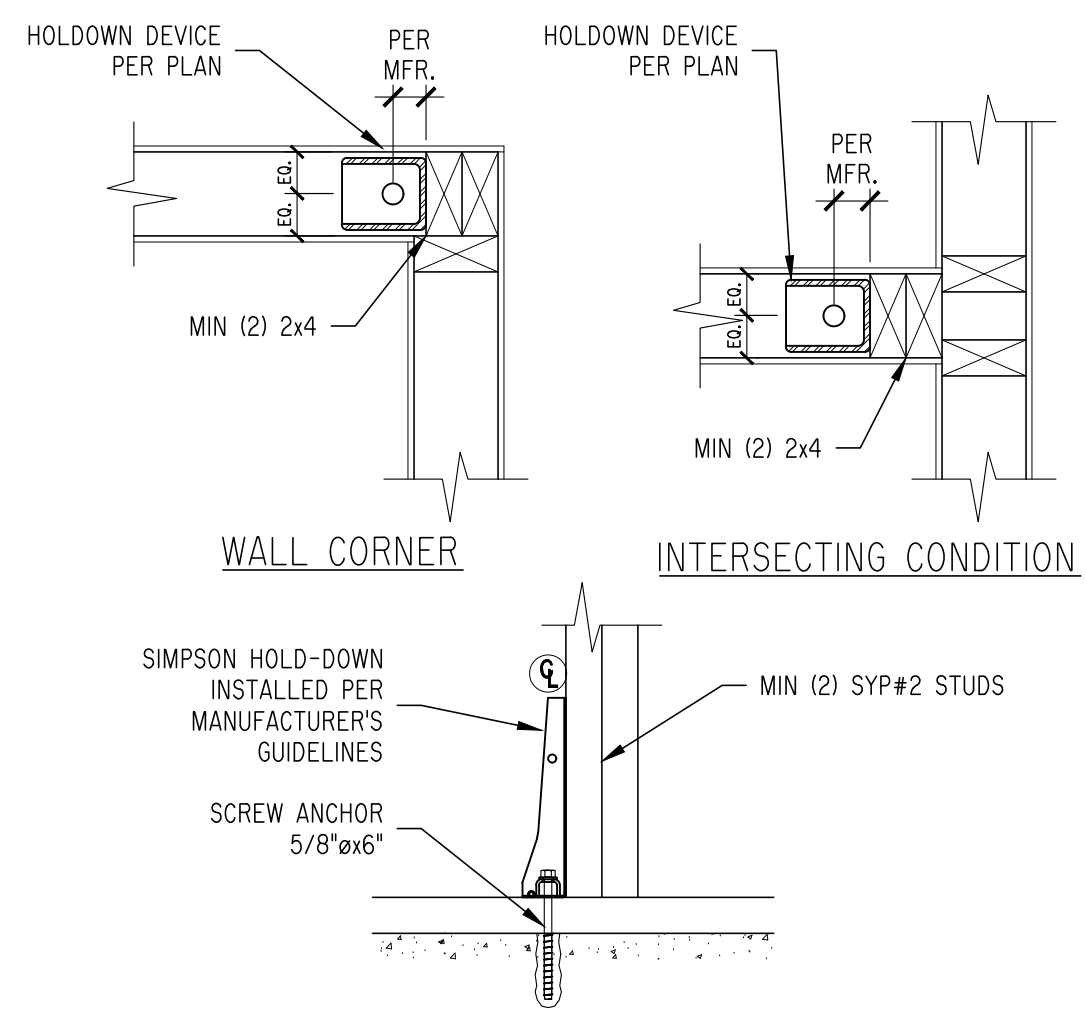
8 FORCE-TRANSFER-AROUND-OPENING STRAPPED WALL AT WINDOW



9 POSITIVE ANCHORAGE



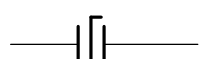
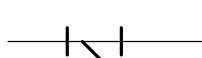
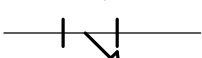
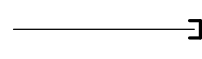
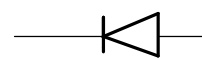
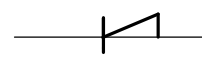
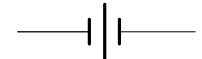
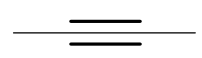
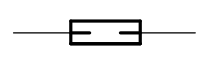
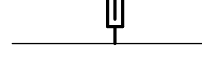
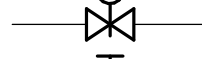
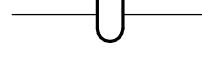
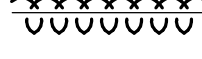
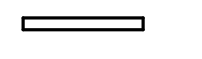
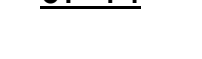
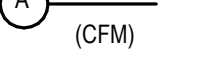
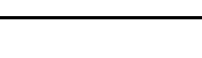
10 TYPICAL FLOOR & ROOF DECK NAILING SCHEDULE

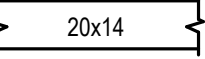
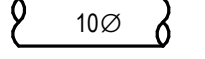
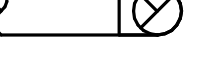
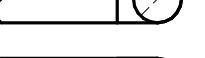
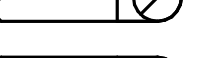
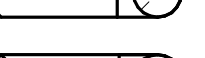
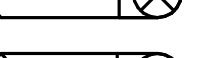
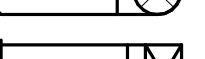
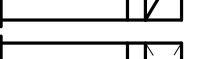
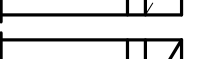
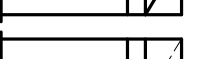
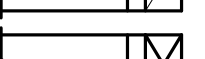
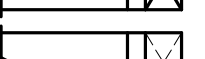
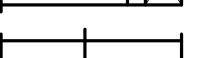
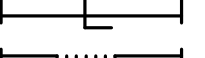
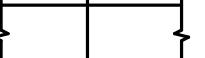
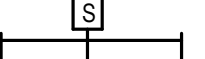
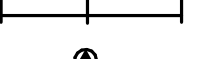
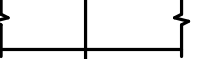
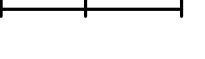
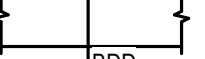
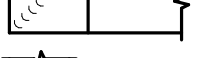
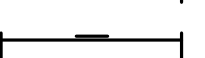
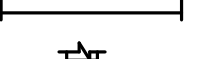
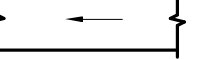


11 TYPICAL ANCHOR BOLT INSTALLATION AT HD HOLDOWN

Date	Description
10/24/24	1. EITL Permit Set
10/24/24	2. Rev. 1 Permit Set

MECHANICAL ABBREVIATIONS	
(E)	EXISTING TO REMAIN
AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
AP	ACCESS PANEL
BDD	BACK DRAFT DAMPER
BFC	BELOW FINISHED CEILING
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHP	CHILLED WATER PUMP
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEAN OUT
COND	CONDENSATE DRAIN
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CWH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DWP	DOMESTIC WATER PUMP
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EW	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
FA	FREE AREA
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FLR	FLOOR
FOP	FUEL OIL PUMP
FP	FIRE PUMP
FPM	FEET PER MINUTE
FFTU	FAN POWERED TERMINAL UNIT
FSD	COMBINATION FIRE AND SMOKE DAMPER
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HP	HEAT PUMP
HW	HOT WATER
HWP	HOT WATER PUMP
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
MA	MAKE-UP AIR (OUTSIDE AIR)
MBH	THOUSAND BTU PER HOUR
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
MUA	MAKE-UP AIR UNIT
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NK	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAHU	OUTSIDE AIR HANDLING UNIT
OAT	OUTSIDE AIR TEMPERATURE
ODB	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
PBD	PARALLEL BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RAG	RETURN AIR GRILL
RCP	REFLECTED CEILING PLAN
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	RE-HEAT COIL
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SP	STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UN	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME UNIT
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
WB	WET BULB
°F	DEGREES FAHRENHEIT

MECHANICAL LEGEND	
	BUTTERFLY VALVE
	BALL VALVE
	SWING CHECK VALVE
	GATE VALVE, ANGLE
	THREE WAY CONTROL VALVE
	TWO WAY CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE (PRV)
	MANUAL AIR VENT
	BALANCING VALVE
	DIRECTION OF FLOW
	STRAINER
	STRAINER WITH BLOW OFF VALVE
	PIPE RISING UP
	PIPE DROPPING DOWN
	PIPE CAP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	UNION
	ANCHOR
	GUIDE
	EXPANSION JOINT
	THERMOMETER
	GAS PRESSURE REGULATOR
	STRAINER
	ELECTRICALLY TRACED PIPING
	EXPANSION LOOP (WWH)
	RETURN LINEAR DIFFUSER
	LINEAR DIFFUSER WITH PLENUM
	SUPPLY DIFFUSER
	FLEXIBLE DUCTWORK
	RETURN GRILLE
	EXHAUST GRILLE
	DIRECTION OF FLOW
	THERMOSTAT
	HUMIDISTAT
	PRESSURE SENSOR
	EQUIPMENT DESIGNATION
	AIR OUTLET/INLET DEVICE DESIGNATION

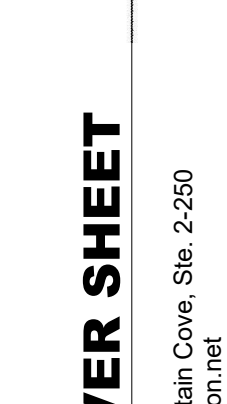
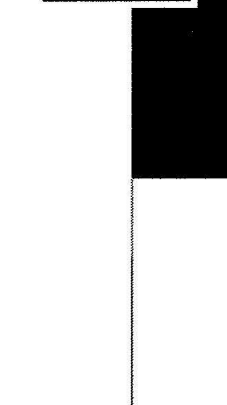
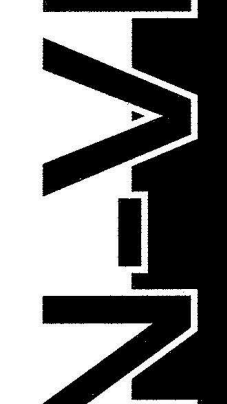
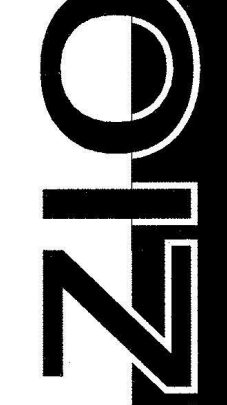
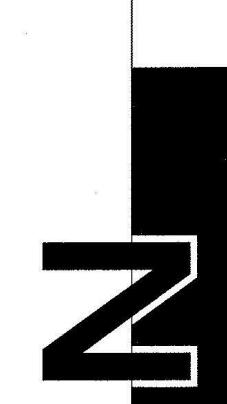
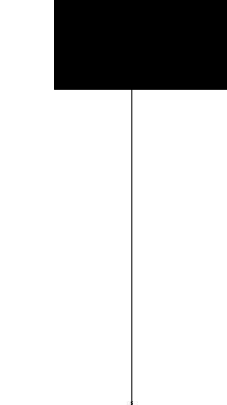
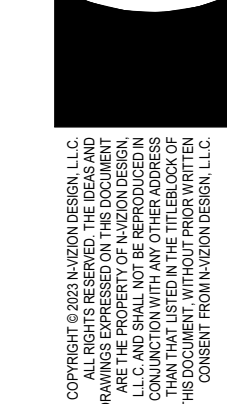
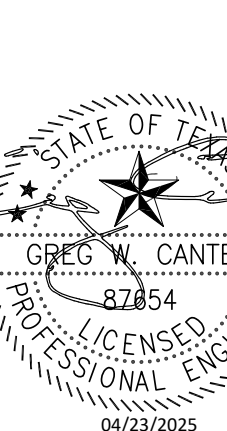
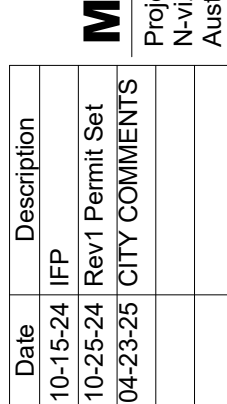
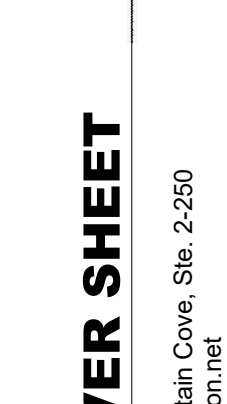
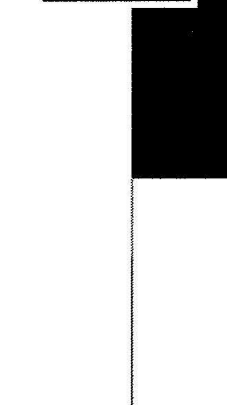
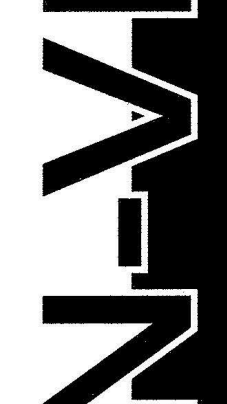
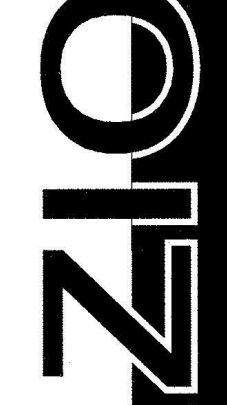
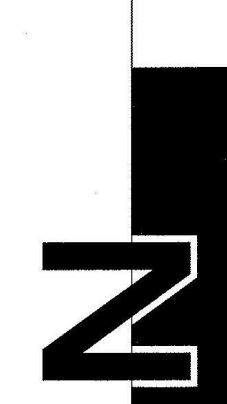
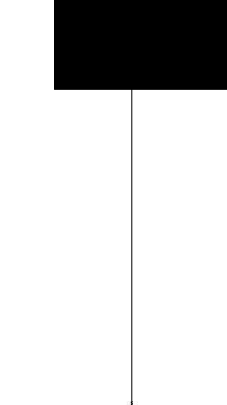
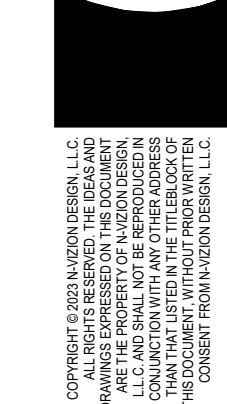
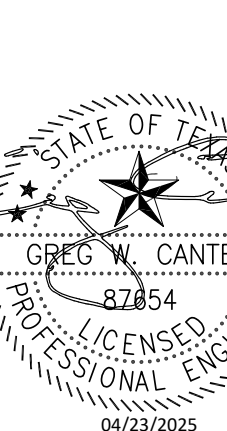
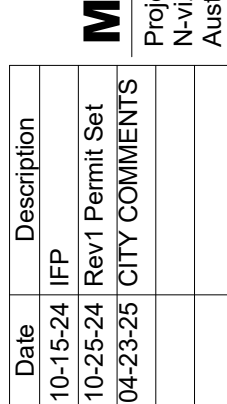
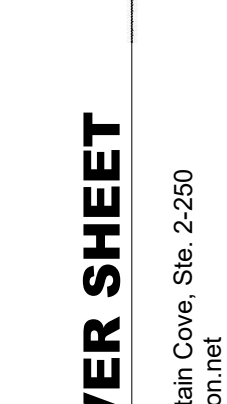
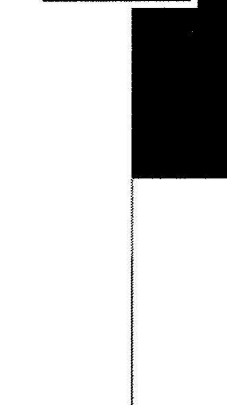
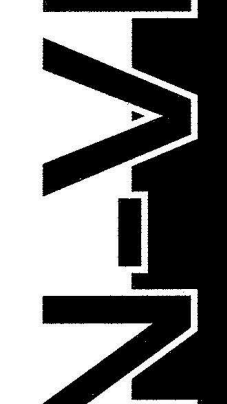
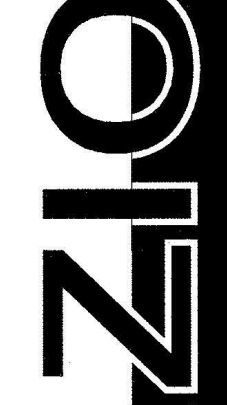
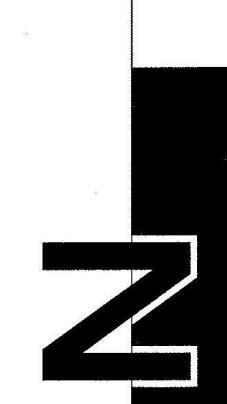
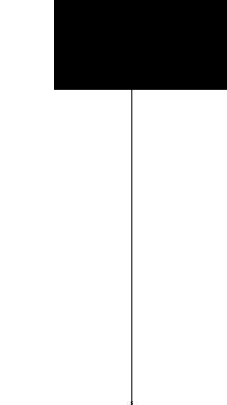
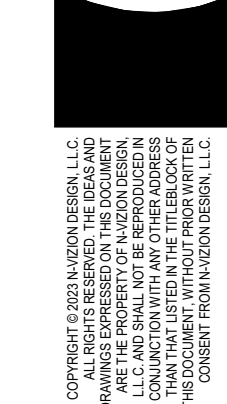
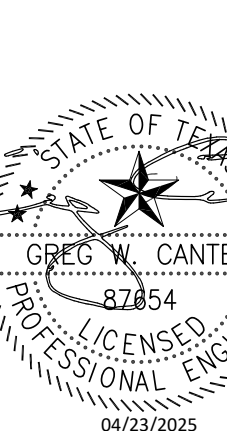
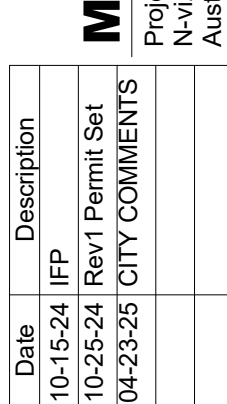
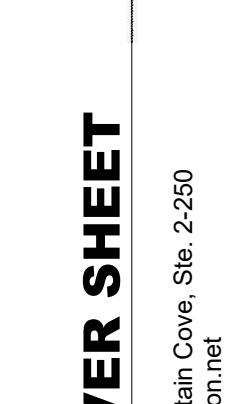
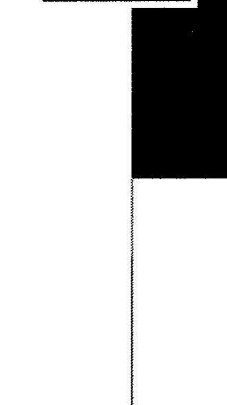
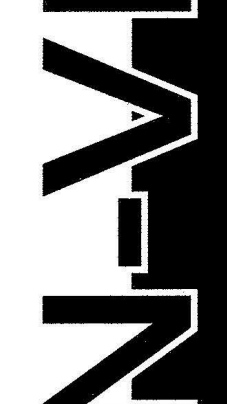
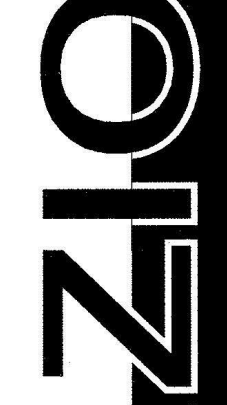
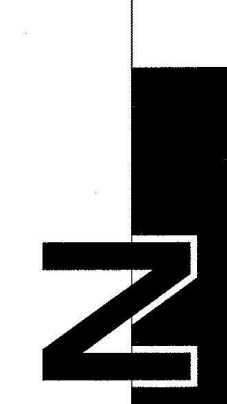
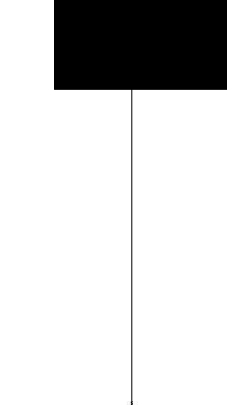
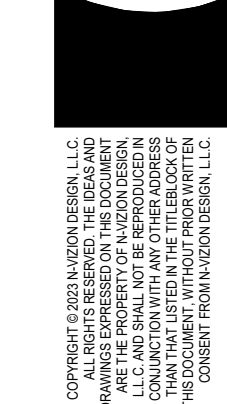
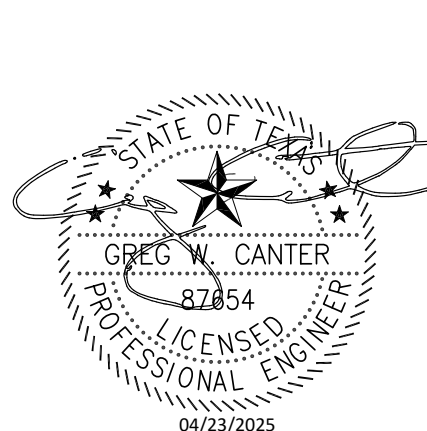
MECHANICAL LEGEND	
	POINT OF CONNECTION (NEW TO EXISTING)
	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)
	RECTANGULAR OR SQUARE TO ROUND OR OVAL TRANSITION
	ROUND EXHAUST DUCT UP
	ROUND EXHAUST DUCT DOWN
	ROUND RETURN DUCT UP
	ROUND RETURN DUCT DOWN
	ROUND SUPPLY DUCT UP
	ROUND SUPPLY DUCT DOWN
	RECTANGULAR EXHAUST DUCT UP
	RECTANGULAR EXHAUST DUCT DOWN
	RECTANGULAR RETURN DUCT UP
	RECTANGULAR RETURN DUCT DOWN
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	VOLUME DAMPER (MANUAL)
	FLEXIBLE CONNECTION
	MOTORIZED DAMPER
	SMOKE DAMPER
	FUSIBLE LINK FIRE DAMPER
	MOTORIZED FIRE SMOKE DAMPER
	BACK DRAFT DAMPER
	VANED ELBOW
	RADIUS ELBOW
	ACCESS DOOR (AD)
	BRANCH DUCT TAKE-OFF
	INTERNALLY LINED DUCT
	EXISTING TO REMAIN
	DEMOLISHED OR RELOCATED EQUIPMENT OR MATERIALS
	NEW CONSTRUCTION

MECHANICAL GENERAL NOTES	
1	ALL WORK PERFORMED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL BUILDING CODES, MECHANICAL CODES, ENERGY CODES AND THEIR AMENDMENTS. THE MORE STRINGENT CODE SHALL APPLY.
2	CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FROM PERFORMING WORK PROPERLY.
3	CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK UNDER THEIR CONTACT PRIOR TO FABRICATION, ROUGH-IN AND FINAL CONNECTION.
4	HVAC AND FIRE PROTECTION PIPING WORK IS SHOWN DIAGRAMMATIC IN NATURE. DRAWINGS SHOULD NOT BE SCALED. PROVIDE ALL OFFSETS AND FITTINGS REQUIRED TO FIT WITHIN AVAILABLE SPACE. COORDINATE WORK WITH STRUCTURAL, ARCHITECTURAL, PLUMBING AND ELECTRICAL PRIOR TO INSTALLATION.
5	LOCATE ALL EQUIPMENT TO ALLOW FOR SERVICE ACCESS. COORDINATE LOCATION WITH OTHER TRADES. DO NOT ALLOW ACCESS TO BE ENCRoACHED UPON BY CONDUITS, PIPE AND OTHER MATERIALS.
6	PROVIDE ACCESS DOORS FOR ALL EQUIPMENT, VALVES, DAMPERS, ETC. ABOVE ALL NON-LAY-IN CEILINGS FOR MAINTENANCE AND SERVICE.
7	ALL RECTANGULAR AND ROUND DUCTWORK IS TO BE CONSTRUCTED OF GALVANIZED SHEET METAL, UNLESS NOTED OTHERWISE. ALL DUCTWORK SHALL BE CONSTRUCTED PER THE LATEST SMACNA DUCT STANDARDS.
8	ALL DUCTWORK SIZES INDICATED ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR TO ALLOW FOR DUCT LINING AS REQUIRED. IF RESIZING IS REQUIRED IT SHALL BE DONE PER THE EQUAL FRICTION METHOD.
9	DUCT RUN-OUTS TO SUPPLY AIR DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK.
10	FOR EACH HEATING OR COOLING UNIT PROVIDE A TEMPERATURE SENSING DEVICE. LOCATE DEVICE WHERE SHOWN ON DRAWINGS AND COORDINATE LOCATION WITH ARCHITECT. (OTHER WALL DEVICES AND PER ADA GUIDELINES.
11	INSTALL ALL MECHANICAL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. IF CONTRACTOR SUBSTITUTES EQUIPMENT AND AFTER APPROVAL BY THE ENGINEER, THE CONTRACTOR SHALL MAKE ALL NECESSARY MODIFICATIONS TO THE SYSTEM AS REQUIRED TO PROVIDE INSTALLATION AT CONTRACTOR'S COST.
12	CONTRACTOR TO VERIFY ALL ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS BEFORE EQUIPMENT RELEASE.
13	COORDINATE ALL SLEEVE, CHASE AND SLAB BLOCK-OUTS WITH EXISTING STRUCTURE. COORDINATE ACTUAL EQUIPMENT DIMENSION WITH OTHER TRADES.
14	COORDINATE CEILING DIFFUSER FRAME TYPES AND COLORS WITH ARCHITECTURAL CEILINGS.
15	FOR PIPES PASSING THROUGH FIRE RATED WALLS AND FLOORS PROVIDE WITH UL LISTED ASSEMBLIES AND MATERIALS TO OBTAIN REQUIRED FIRE RATING.
16	PROVIDE 1-1/2" ACOUSTICAL LINING ON ALL DUCTWORK WITHIN 10'-0" OF RTU/AHU. ALL OTHER DUCTWORK IS TO BE INSULATED WITH 1-1/2" FIBERGLASS WRAP/INSULATION.
17	PROVIDE ALL TRANSITION AS NECESSARY TO MAKE CONNECTION TO HVAC EQUIPMENT.
18	ALL PIPING, DUCTWORK AND EQUIPMENT SHALL BE SUPPORTED PER THE LATEST EDITION OF SMACNA.
19	PROVIDE DUCT ACCESS DOORS ON ALL MOTORIZED DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, BACKDRAFT DAMPERS AND FIRE/SMOKE DAMPERS.
20	CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGEMENT AND BUILDING ENGINEER FOR ALL BASE BUILDING STANDARDS, DEVICE, CONTROLS AND ALL ASSOCIATED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
21	FLEXIBLE DUCTWORK FOR CONNECTION TO AIR DEVICES SHALL BE LIMITED TO 5'-0" IN LENGTH. FOR LONGER CONNECTIONS USE INSULATED RIGID SPIRAL ROUND DUCTWORK. SPLIT SEAM ROUND DUCTWORK IS NOT ALLOWED.
22	PROVIDE MANUAL VOLUME DAMPERS AT DUCT TAKEOFFS FROM MAINS. DAMPERS SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. AVOID THE INSTALLATION OF DAMPERS AT DIFFUSERS DUE TO NOISE ISSUES.
23	A NEBB OR AABC CERTIFIED BALANCE COMPANY SHALL BE USED TO BALANCE ALL DEVICES TO CFM AND GPM AS REQUIRED ON THE DRAWINGS. PROVIDE BALANCING REPORTS OF ALL EQUIPMENT AND DEVICES TO OWNER.
24	PROVIDE SMACNA DUCT TRANSITIONS TO ALL TERMINAL UNIT INLETS AND OUTLETS FOR CONNECTION TO DUCTWORK.
25	ALL EXHAUST FAN OUTLETS SHALL BE A MINIMUM OF 10' FROM ALL BUILDING AIR INTAKES AND OPENINGS.
26	ALL EXTERIOR BUILDING PENETRATION SHALL BE SEALED WATER TIGHT. ALL INTERIOR WALL AND FLOOR PENETRATIONS FOR DUCTWORK AND PIPING SHALL BE MEET THE FIRE RATING OF THE ARCHITECTURAL PLANS AND WILL BE INSTALLED TO MEET ALL UL ASSEMBLY REQUIREMENTS.
27	PROVIDE MANUAL BALANCE DAMPERS AT EACH BRANCH DUCT TO ALL SUPPLY DIFFUSERS, EXHAUST GRILLS AND DUCTED RETURN GRILLES.
28	PROVIDE IF CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED AND GRADE MOUNTED EQUIPMENT, UNLESS NOTED OTHERWISE.
29	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOUVER LOCATIONS AND COORDINATE LOUVER PLACEMENT WITH ARCHITECT.
30	PROVIDE MOTORIZED DAMPERS ON ALL EXTERIOR BUILDING PENETRATIONS. INTERLOCK WITH RESPECTIVE FANS. DAMPER TO FAIL CLOSED, UNLESS NOTED OTHERWISE.
31	PROVIDE SMOKE DETECTORS ON ALL AIR HANDLING EQUIPMENT 2,000 CFM OR GREATER TO MEET ALL NFPA REQUIREMENTS. FOR AIR HANDLING EQUIPMENT 15,000 CFM OR GREATER PROVIDE MOTORIZED ISOLATION DAMPERS ON ALL INLETS AND OUTLETS OF THE UNIT TO MEET ALL NFPA REQUIREMENTS. DAMPERS TO BE INTERLOCKED WITH UNIT.
32	FIRE PROTECTION CONTRACTOR SHALL MODIFY ALL EXISTING FIRE PROTECTION AND SPRINKLER PIPES AS REQUIRED TO MEET THE MAINTENANCE AND REMOVAL CLEARANCES OF ALL EXISTING MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT.

GENERAL NOTE:	
A COMMISSIONING PLAN SHALL BE DEVELOPED BY INFINITY-MEP+S CONSULTANTS AND SHALL INCLUDE THE FOLLOWING ITEMS PER IECC CODE 2.1:	
1.	A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING.
2.	INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES.
3.	A LISTING OF THE SPECIFIC EQUIPMENT, APPARATUS OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.
4.	FUNCTIONS TO BE TESTED INCLUDING, BUT NOT LIMITED TO, CALIBRATIONS AND SENSOR/CONTROLLER.
5.	CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED. TESTING SHALL BE DONE UNDER WINTER DESIGN CONDITIONS AND FULL OUTSIDE AIR CONDITIONS.
6.	MEASURABLE CRITERIA FOR PERFORMANCE.

MECHANICAL SHEET LIST		
SHEET NUMBER	SHEET NAME	
M0.01	MECHANICAL COVER SHEET	
M0.02	MECHANICAL SCHEDULES	
M0.03	MECHANICAL SPECIFICATIONS	
M0.04	MECHANICAL PLAN	
M2.01	MECHANICAL PIPING PLAN	
M2.02	MECHANICAL ROOF PLAN	
M3.01	MECHANICAL CEILING COORDINATION PLAN	
M4.01	MECHANICAL VRF DIAGRAM	
M4.02	MECHANICAL VRF DIAGRAM	
M6.01	MECHANICAL DETAILS	
M6.02	MECHANICAL DETAILS	
M6.03	MECHANICAL DETAILS	
M7.01	MECHANICAL CONTROLS	

CODE SUMMARY	
A.	APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO: 1. CITY OF LEANDER MECHANICAL CODE: 2015 IMC 2. CITY OF LEANDER BUILDING CODE: 2015 IBC 3. CITY OF LEANDER BUILDING CODE: 2021 IBC (TABLES 1004.1.2 AND 1004.5 FROM SECTION 2902.2) 4. COMMERCIAL ENERGY CONSERVATION CODE: 2015 IECC 5. CITY OF LEANDER PLUMBING CODE: 2015 IPC 6. CITY OF LEANDER PLUMBING CODE: 2021 IPC SECTION 403.2

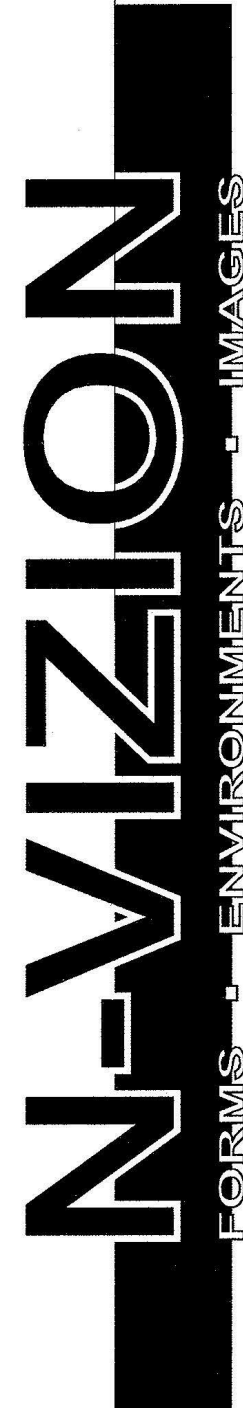


DX DOAS UNIT SCHEDULE																													
EQUIPMENT			UNIT		TOTAL AIR FLOW	MIN OUTSIDE AIRFLOW	SUPPLY FAN						DX COOLING COIL						REFRIGERANT	HEAT PUMP HEATING COIL		AIR FILTER	ELECTRICAL DATA			OPERATIONAL WEIGHT (LBS.)	NOTES		
TYPE	NUMBER	LOCATION					MANUFACTURER	MODEL	NO. OF FANS	CFM/FAN	EXT. S.P. (IN.W.G.)	TOTAL S.P. (IN.W.G.)	RPM	BHP/FAN	HP/FAN	EAT		LAT		CAPACITY									
			DB (°F)	WB (°F)												DB (°F)	WB (°F)	TOTAL MBH		SENSIBLE MBH	MBH		EAT (°F)	LAT (°F)	MERV FINAL			VOLTAGE	PHASE
DOAS	1-1	BREAK ROOM	DAIKIN	BCHD0401	2860	2860	1	2860	1	1.5	1018	1.06	5	98.9	74.8	54.6	53.4	205	138.4	R-410A	247.9	25	90	13	208	3	13.6	635	ALL
NOTES: 1. PROVIDE WITH FACTORY MOUNTED DISCONNECT. 2. UNIT TO BE SELECTED AT MEDIUM SPEED. 3. PROVIDE WITH EC MOTOR. 4. PROVIDE WITH REFRIGERANT LINE LINK KIT. 5. PROVIDE WITH HOT GAS REHEAT TO PROVIDE 70°F LAT. 6. PROVIDE WITH 7-DAY PROGRAMMABLE WALL-MOUNTED THERMOSTAT. 7. PROVIDE WITH CONTROL BOXES MOUNTED ON UNIT. 8. PROVIDE CUSTOM CONTROL CONTROLLER.																													

(DOAS) VRF HEAT PUMP SCHEDULE																
EQUIPMENT		LOCATION	UNIT		AMBIENT TEMPERATURE (°F)	REFRIGERANT	# OF MODULES	MATCHED TOTAL CAPACITY (MBH)	NUMBER OF FANS	IEER/ER COP	ELECTRICAL DATA				OPERATIONAL WEIGHT (LBS.)	NOTES
TYPE	NUMBER		MANUFACTURER	MODEL							VOLTAGE	PHASE	MCA	MOCP		
CU DOAS	1-1A	MECH YARD	DAIKIN	REYQ96XB7JA	105	R-410A	1	91.8	2	19.211.5/3.46	208	3	38.1	45	730	ALL
CU DOAS	1-1B	MECH YARD	DAIKIN	REYQ96XB7JA	105	R-410A	1	91.8	2	19.211.5/3.46	208	3	38.1	45	730	ALL
NOTES: 1. MOUNT ON 6" CONCRETE HOUSEKEEPING PAD. 2. MAINTAIN ALL MANUFACTUER REQUIRED CLEARANCES. 3. PROVIDE WITH VARIABLE SPEED COMPRESSORS. 4. PROVIDE WITH ELECTRICAL DISCONNECT SWITCH AND SINGLE POINT POWER CONNECTION. 5. PROVIDE WITH LOW AMBIENT STANDARD. 6. PROVIDE PIPING CONNECTION KIT TO TIE CU DOAS 1-1A AND CU DOAS 1-1B TOGETHER.																

ELECTRIC UNIT HEATER SCHEDULE														
EQUIPMENT		SERVICE	LOCATION	UNIT		HEATING COIL			FAN		ELECTRICAL DATA			NOTES
TYPE	NUMBER			MANUFACTURER	MODEL	CAPACITY KW	CONTROL STEPS	TEMP. RISE (°F)	CFM	HP	VOLTAGE	PHASE	HZ	
EUH	1-1	SPRK.	SPRK.	INDEECO	UCI	5	1	23	700	1/30	208	1	60	ALL
NOTES:														
1.		PROVIDE WITH ELECTRICAL DISCONNECT.												
2.		PROVIDE WITH CEILING SUSPENSION KIT.												

GRAVITY VENTILATOR SCHEDULE													
EQUIPMENT		SERVICE	LOCATION	UNIT		THROAT DIMENSIONS			CFM	THROAT MAX FACE VELOCITY (FPM)	THROAT AREA (SQ. FT.)	MAX. PRESSURE DROP (IN W.G.)	NOTES
TYPE	NUMBER			MANUFACTURER	MODEL	LENGTH (IN)	HEIGHT (IN)	WIDTH (IN)					
GV	1-1	RELIEF	ROOF	GREENHECK	GRSR	16	10	16	680	600	1.12	0.06	1.3
GV	1-2	RELIEF	ROOF	GREENHECK	GRSR	20	10	20	1200	600	1.83	0.06	1.3
GV	1-3	OUTSIDE AIR	ROOF	GREENHECK	GRSI	30	18	30	2860	600	5.03	0.08	1.2
GV	1-4	EXHAUST	ROOF	GREENHECK	GRSR	12	10	12	750	800	0.82	0.1	1.2
NOTES: 1. PROVIDE WITH MANUFACTURERS ROOF CURB MIN. 12" HIGH MATCHED TO ROOF PITCH AND SLOPE. 2. PROVIDE WITH BIRDSCREEN, DAMPER TRAY & 2 POS. MOTORIZED DAMPER WITH END SWITCH AND DRY CONTACTS. 3. PROVIDE WITH BIRDSCREEN, DAMPER TRAY & BAROMETRIC RELIEF DAMPER. 4. PROVIDE BLACK FINISH. COORDINATE WITH ARCHITECT FOR FINAL FINISH COLOR.													

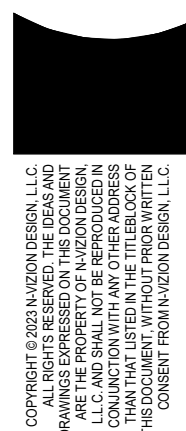


MECHANICAL SCHEDULES
Project Number: 230502
Nvizon Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration Nos. TX PE Firm F-1229, TX25498, LA 9413 MI,
1301069591, NV 8262, NC 14883, OH: ARC-1817885

Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set



10/25/2024



Wood Corley Fish
Vista Ridge and Bagdad Rd
Lander, TX 79841

MECHANICAL SPECIFICATIONS
FORMS - ENVIRONMENTS - IMAGES

MECHANICAL SPECIFICATIONS
Project Number: 230502
Nuzon Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration Nos. TX PE Firm F-12229, TX C-5490, LA 9413 MI,
131006591, NV 8262, NC 14863, OH ARC-1617865

Date	Description
10/15/24	1P
10/25/24	Rev 1 Permit Set



TBPE Registration Number: 18865
5316 Hwy. 290 Service Rd., Suite 130
Austin, TX 78735
512-692-9224
www.infinitymep.com

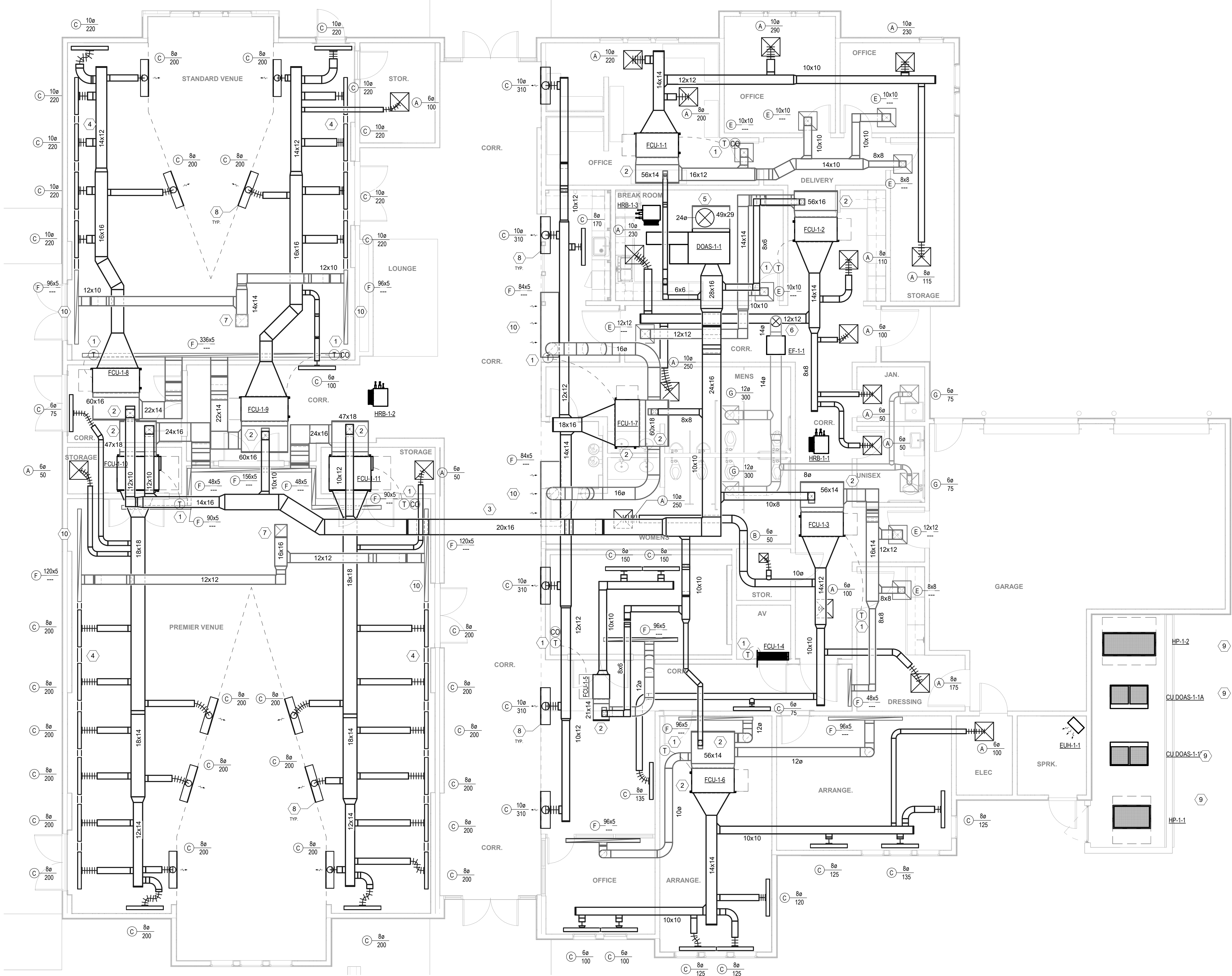
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MECHANICAL SPECIFICATIONS

SECTION 23 82 19 - DUCTED VERTICAL/HORIZONTAL CONVERTIBLE VRF FAN COIL UNITS 1. MANUFACTURERS: LG ELECTRONICS, DAIKIN OR APPROVED EQUAL. 2. FAN COIL UNIT COIL WILL BE SINGLE REFRIGERANT CIRCUIT. 3. UNIT TO BE FIELD CONVERTIBLE FOR VERTICAL UP FLOW, DOWN FLOW, HORIZONTAL LEFT, AND HORIZONTAL RIGHT CONFIGURATIONS. 4. SURFACE-BURNING CHARACTERISTICS: INSULATION AND ADHESIVE SHALL HAVE A COMBINED MAXIMUM FLAME-SPREAD INDEX OF 25 AND SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO ASTM E 84 BY A QUALIFIED TESTING AGENCY. 5. DRAIN PANS: STAINLESS STEEL OR HIGH IMPACT POLYSTYRENE RESIN (HIPS). STAINLESS STEEL PANS AND DRAIN CONNECTIONS TO COMPLY WITH ASHRAE 62.1. DRAIN PANS SHALL BE REMOVABLE. 6. CABINET: 22-GAUGE COATED STEEL WITH HIGH GLOSS BAKED ENAMEL FINISH. ALL COLD SURFACES TO BE GALVANIZED STEEL. 7. INSULATION: ALL COLD SURFACES SHALL BE INTERNALLY INSULATED WITH 1/2 INCH FOIL FACED POLYSTYRENE FIBER INSULATION, ENCAPSULATED ON BOTH SIDES, AND SEALED ALONG THE EDGES WITH A REINFORCED FOIL-FACED COVERING. 8. FILTERS: PROVIDE FACTORY INSTALLED 1" FILTER RACK WITH MERV-8 FILTER. 9. INDOOR REFRIGERANT COILS: COPPER TUBE, WITH MECHANICALLY BONDED ALUMINUM FINS BRAZED JOINTS AT FITTINGS. NO MORE THAN 21 FINS PER INCH. COMPLY WITH AHRI 210/240, AND LEAK TEST TO MINIMUM 450 PSIG FOR A MINIMUM 30-PSIG WORKING PRESSURE. 10. FAN AND MOTOR BOARD: REMOVABLE. 11. FANS: PROVIDE AN INTEGRAL FAN ASSEMBLY CONSISTING OF A GALVANIZED STEEL HOUSING AND FORWARD CURVED FAN WHEEL. PROVIDE A DIRECT DRIVE FAN/MOTOR ASSEMBLY MOUNTED ON RUBBER GROMMETS ISOLATING THE RATING ASSEMBLY FROM THE FAN HOUSING. 12. MOTOR UNITS TO BE PROVIDED WITH A BRUSHLESS DIGITALLY-CONTROLLED FAN MOTOR (BLDC) HAVING PERMANENTLY LUBRICATED AND SEALED BALL BEARINGS. 13. WIRING TERMINATION: CONNECT MOTOR TO CHASSIS WIRING WITH PLUG CONNECTION. 14. PROVIDE UNITS THAT ARE FACTORY WIRED WITH NECESSARY ELECTRICAL COMPONENTS, INTEGRAL MICROPROCESSORS, PRINTED CIRCUIT BOARDS, THERMISTORS, SENSORS, TERMINAL BLOCKS, AND LUGS FOR POWER WIRING. 15. PROVIDE MICROPROCESSOR-BASED ALGORITHMS FOR COMPONENT PROTECTION, SOFT-START CAPABILITY, REFRIGERATION SYSTEM PRESSURE, TEMPERATURE, DEFROST, AND AMBIENT CONTROL. 16. PROVIDE A MATCHED WIRED TEMPERATURE SENSOR WITH SIMPLE OPERATOR INTERFACE TO CONTROL UNIT MODE, COOLING AND HEATING SETPOINTS, 7 DAY SCHEDULING, AND FAN SPEED. 17. PROVIDE FIELD INSTALLED CONDENSATE PUMP. 18. IF SCHEDULED: PROVIDE UNIT WITH ELECTRIC HEAT MODULE TO BE FIELD INSTALLED DIN THE REHEAT POSITION, HEATING MODULE TO BE PROVIDED WITH HEATING ELEMENTS, CONTACTORS, RELAYS, HIGH TEMPERATURE SAFETY SWITCH, AND INTERCONNECTING CONTROL WIRING HARNESS WITH A QUICK CONNECT PLUG FOR EASY CONNECTION TO THE AIR HANDLING UNIT CONTROL BOARD.	SECTION 23 82 20 - VARIABLE REFRIGERANT FLOW (VRF) HEAT RECOVERY CONDENSING UNITS 1. MANUFACTURERS: LG ELECTRONICS, DAIKIN OR APPROVED EQUAL. 2. CASE: OUTDOOR UNIT CASE TO BE CONSTRUCTED FROM GALVANIZED STEEL, BONDERIZED AND FINISHED WITH BAKED ENAMEL PAINT. EACH FRAME SHALL HAVE A REMOVABLE INSPECTION PANEL TO ALLOW ACCESS TO SERVICE TOOL CONNECTIONS, DIP SWITCHES, AUTO ADDRESSING, AND ERROR CODES. THE ENTIRE FRONT PANEL OF THE CONDENSING UNIT SHALL BE REMOVABLE FOR MAINTENANCE. OUTDOOR UNIT FRAMES SHALL BE COMPLETELY FACTORY ASSEMBLED, PIPED AND WIRED. DUAL AND TRIPLE FRAME OUTDOOR UNIT SHALL BE FIELD PIPED WITH FACTORY DESIGNED AND SUPPLIED OUTDOOR UNIT Y-BRANCHES TO MANIPULATE THEM TOGETHER INTO A SINGLE REFRIGERANT CIRCUIT. 3. COILS: OUTDOOR UNIT COILS TO BE MANUFACTURED USING COPPER TUBES WITH MECHANICALLY BONDED ALUMINUM LOVERED FINS AND PROTECTED BY A METAL GUARD. PROVIDE FACTORY APPLIED CORROSION RESISTANT BLACKFIN MATERIAL WITH HYDROPHILIC COATING. 4. FANS: FAN BLADES TO BE MADE OF DURABLE ACRYLONITRILE BUTADIENE STYRENE (ABS) POLYMERIC RESIN OR APPROVED ALTERNATIVE. OUTDOOR FAN TO BE VARIABLE SPEED PROPELLER TYPE. THE BRUSHLESS MOTOR SHALL BE A HIGH EFFICIENCY MOTOR WITH INHERENT PROTECTION, PERMANENTLY LUBRICATED BEARINGS, AND VARIABLE SPEED. 5. REFRIGERATION SYSTEM: THE REFRIGERATION SYSTEM CONSISTS OF A SINGLE REFRIGERATION CIRCUIT AND USES R410A REFRIGERANT. THE OUTDOOR UNIT SHALL BE PROVIDED WITH FACTORY INSTALLED COMPONENTS INCLUDING A REFRIGERANT STRAINER, CHECK VALVES, OIL SEPARATOR, OIL LEVEL SENSOR, ACCUMULATOR, FOUR-WAY REVERSING VALVE, ELECTRONIC CONTROLLED EXPANSION VALVE (EEV), HIGH AND LOW SIDE CHARGING PORTS, HIGH PRESSURE SAFETY SWITCH, SERVICE VALVES, AND INTERCONNECTING PIPING. THE OUTDOOR UNIT SHALL BE FURNISHED WITH AN INTEGRAL SUBCOOLER ASSEMBLY CONSISTING OF A DOUBLE SPIRAL TUBE-TYPE SUBCOOLING HEAT EXCHANGER AND EEV PROVIDING MODULATION OF UP TO 23 DEGREES OF SUBCOOLING. SYSTEM SHALL BE HEAT RECOVERY TYPE WITH CONTROLS FOR INDEPENDENT HEATING AND COOLING FOR EACH FAN COIL. VRF SYSTEM SHALL BE 3-PIPE FROM CONDENSING UNIT TO FACTORY PROVIDED HEAT RECOVERY UNITS, AND 2 PIPE FROM HEAT RECOVERY UNITS TO FAN COILS. 6. COMPRESSOR: SINGLE PHASE CONDENSING UNITS SHALL BE PROVIDED WITH A SINGLE DIGITALLY CONTROLLED INVERTER-DRIVEN HERMETIC SCROLL COMPRESSOR TO MODULATE CAPACITY (VARIABLE FROM 20 TO 125 H2). THREE PHASE UNITS LESS THAN 130 MBH SHALL BE EQUIPPED WITH ONE DIGITALLY CONTROLLED INVERTER-DRIVEN HERMETIC SCROLL COMPRESSOR TO MODULATE CAPACITY (VARIABLE FROM 12 TO 150H2). THREE PHASE UNITS LARGER THAN 130 MBH NOMINAL CAPACITY SHALL BE EQUIPPED WITH TWO DIGITALLY CONTROLLED INVERTER-DRIVEN HERMETIC SCROLL COMPRESSORS TO MODULATE CAPACITY (VARIABLE FROM 12 TO 150H2). AN INTERNAL THERMAL OVERLOAD AND FACTORY MOUNTED 60 WATT CRANKCASE HEATER SHALL BE INCLUDED ON ALL COMPRESSORS. 7. CONTROLS: OUTDOOR CONDENSING UNITS SHALL BE FACTORY WIRED WITH NECESSARY ELECTRICAL CONTROL COMPONENTS, INTEGRAL MICROPROCESSORS, PRINTED CIRCUIT BOARDS, THERMISTORS, SENSORS, TERMINAL BLOCKS, AND LUGS FOR POWER WIRING. THE CONTROL CIRCUIT WITHIN THE INDOOR UNITS, HEAT RECOVERY UNITS, AND OUTDOOR UNIT SHALL BE A VARIABLE LOW VOLTAGE DC COMMUNICATION COMPLETED USING A TWO CONDUCTOR, STRANDED, AND SHIELDED CABLE FOR THE RS-485 DATA/CHAN COMMUNICATION WIRINGS. MICROPROCESSOR-BASED ALGORITHMS SHALL PROVIDE COMPONENT PROTECTION, SOFT-START CAPABILITY, REFRIGERATION SYSTEM PRESSURE, TEMPERATURE, DEFROST, AND AMBIENT CONTROL. 8. HEAT RECOVERY UNITS: HEAT RECOVERY UNITS (HRU) SHALL HAVE TWO THREE, FOUR, SIX, OR EIGHT PORTS FOR CONNECTION TO INDOOR UNITS. EACH PORT SHALL BE CAPABLE OF CONNECTING FROM ONE INDOOR UNIT UP TO EIGHT INDOOR UNITS UP TO A MAXIMUM NOMINAL CAPACITY OF 60 MBH. INDIVIDUAL INDOOR UNITS THAT ARE GREATER THAN 60 MBH SHALL USE TWO NEIGHBORING HEAT RECOVERY UNIT PORTS TWINNED TOGETHER USING A REVERSE Y-BRANCH KIT. EACH HEAT RECOVERY UNIT SHALL SUPPORT UP TO A MAXIMUM CAPACITY OF 230 MBH. EACH HEAT RECOVERY PORT SHALL BE ABLE TO OPERATE IN HEATING OR COOLING MODE INDEPENDENTLY, REGARDLESS OF THE MODE OF ANY OTHER PORT ON THE UNIT OR IN THE SYSTEM. HEAT RECOVERY UNITS SHALL CONTAIN ONE DOUBLE SPIRAL SUBCOOLING HEAT EXCHANGER PER PORT. EACH HEAT RECOVERY UNIT PORT SHALL BE OUTFISHED WITH TWO 2-POSITION MOTORIZED VALVES TO CONTROL R410A REFRIGERANT FLOW PATH TO ALLOW INDOOR UNITS TO OPERATE IN HEATING OR COOLING MODE. 9. REFRIGERANT PIPING: FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR REFRIGERANT PIPING. CONSULT THE REFRIGERANT PIPING TREE LOCATED IN THE CONSTRUCTION DOCUMENTS FOR ESTIMATED PIPE LENGTHS AND SIZING. ALL Y-BRANCHES AND HEAT RECOVERY UNITS SHALL BE PROVIDED BY THE VRF MANUFACTURER. ANY CHANGES FROM THIS PIPING TREE NEED TO BE COORDINATED WITH THE VRF MANUFACTURER AND INFINITY MEP IN WRITING AND SUBMITTED AS PART OF THE FINAL CONSTRUCTION DOCUMENTS. 10. WARRANTY: PROVIDE A 1 YEAR LIMITED PARTS WARRANTY ON THE COMPLETE UNIT AND 5-YEAR PARTS WARRANTY ON THE COMPRESSOR.	SECTION 23 82 19 - INDOOR SPECIALTY DX AIR HANDLING UNIT FAN COIL UNITS 1. MANUFACTURERS: AION, DAIKIN, TRANE OR APPROVED EQUAL. 2. MANUFACTURERS: LG ELECTRONICS, DAIKIN OR APPROVED EQUAL. 3. SURFACE-BURNING CHARACTERISTICS: INSULATION AND ADHESIVE SHALL HAVE A COMBINED MAXIMUM FLAME-SPREAD INDEX OF 25 AND SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO ASTM E 84 BY A QUALIFIED TESTING AGENCY. 4. DRAIN PANS: 3/4" STAINLESS STEEL WITH STAINLESS DRAIN CONNECTIONS TO COMPLY WITH ASHRAE 62.1. DRAIN PANS SHALL BE REMOVABLE. 5. CABINET: THERMALLY BROKEN DOUBLE WALL CABINET. UNIT SHALL BE 680 GALVANIZED ON BOTH EXTERIOR AND INTERIOR LINER. PROVIDE 1" EXPANDED FOAM INSULATION PROVIDING R-VALUE 6.25. PROVIDE ACCESS DOORS TO FILTERS, COIL, AND SUPPLY FAN WITH PIANO HINGES AND LOCKABLE QUARTER TURN HANDLES. 6. FILTERS: PROVIDE FACTORY INSTALLED 2" 4" OR COMBINATION 2" 4" FILTER RACK WITH SCHEDULED FILTERS INDOOR AND OUTDOOR. COILS: COPPER TUBE, WITH MECHANICALLY BONDED ALUMINUM FINS BRAZED JOINTS AT FITTINGS. COIL SHALL BE FURNISHED WITH A FACTORY INSTALLED THERMOSTATIC EXPANSION VALVE. COIL SHALL BE HYDROGEN LEAK TESTED. 7. FAN AND MOTOR BOARD: REMOVABLE. 8. FANS: FANS SHALL BE DIRECT DRIVE, UNHOUSED, BACKWARD CURVED PLENUM TYPE. FANS AND MOTOR ASSEMBLY SHALL BE DYNAMICALLY BALANCED. 9. MOTOR: MOTOR SHALL BE A HIGH EFFICIENCY ELECTRONICALLY COMMUTATED MOTOR (ECM) OR PREMIUM EFFICIENCY MOTOR WITH FACTORY INSTALLED VFD. 10. QUALITY ASSURANCE A. STANDARD FOR HEATING IN ACCORDANCE WITH UL STANDARD 1995/CSA C22.2 NO. 236, SAFETY STANDARD FOR CERTIFIED AND COOLING EQUIPMENT. B. UNIT AND REFRIGERATION SYSTEM SHALL COMPLY WITH ASHRAE 15, SAFETY STANDARD FOR MECHANICAL REFRIGERATION. C. UNIT SHALL BE CERTIFIED IN ACCORDANCE WITH ANSI Z11.47/CSA 2.38 AND ANSI Z83.8/CSA 2.6, SAFETY STANDARD GAS-FIRED FURNACES. D. COILS: COPPER TUBE, PROVIDE 1" EXPANDED FOAM INSULATION PROVIDING R-VALUE 6.25. PROVIDE ACCESS DOORS TO FILTERS, COIL, AND SUPPLY FAN WITH PIANO HINGES AND LOCKABLE QUARTER TURN HANDLES. 11. SCHEDULE: REFER TO MECHANICAL SCHEDULE NOTES FOR ADDITIONAL UNIT OPTION REQUIREMENTS. IF ANY NOTES CONFLICT WITH THE SPECIFICATION ABOVE, THE SCHEDULE NOTES SHALL SUPERSEDE THE SPECIFICATION.	SECTION 23 82 39 - WALL AND CEILING UNIT HEATERS 1. MANUFACTURERS: INDOECO, RENZOR, TRANE, Q-MARK, OR APPROVED EQUAL. 2. DESCRIPTION: A. ASSEMBLY INCLUDING CHASSIS, ELECTRIC HEATING COIL, FAN, MOTOR, AND CONTROLS. COMPLY WITH UL 2021. B. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION. 3. CABINET: A. FRONT PANEL: STAMPED-STEEL LOUVER, WITH REMOVABLE PANELS FASTENED WITH TAMPERPROOF FASTENERS. B. FINISH: BAKED ENAMEL OVER BAKED ON PRIMER WITH MANUFACTURER'S STANDARD COLOR SELECTED BY ARCHITECT. APPLIED TO FACTORY-ASSEMBLED AND -TESTED WALL AND CEILING HEATERS BEFORE SHIPPING. C. SURFACE-MOUNTED CABINET ENCLOSURE: STEEL WITH FINISH TO MATCH CABINET. 4. COIL: A. ELECTRIC-RESISTANCE HEATING COIL: NICKEL-CHROMIUM HEATING WIRE, FREE FROM EXPANSION TENSILE AND 60-HZ HUM, EMBEDDED IN MAGNESIUM OXIDE REFRACTORY AND SEALED IN CORROSION-RESISTANT METALLIC SHEATH. TERMINATE ELEMENTS IN STAINLESS STEEL, MACHINE-STAMPED NORMALS SECURED WITH STAINLESS-STEEL HARDWARE, AND LIMIT CONTROLS FOR HIGH-TEMPERATURE PROTECTION. PROVIDE INTEGRAL CIRCUIT BREAKER FOR OVERCURRENT PROTECTION. 5. FAN AND MOTOR: A. FAN: ALUMINUM PROPELLER DIRECTLY CONNECTED TO MOTOR. B. MOTOR: PERMANENTLY LUBRICATED, MULTISPEED. 6. INSTALLATION: A. INSTALL WALL AND CEILING UNIT HEATERS TO COMPLY WITH NFPA 90A. B. INSTALL WALL AND CEILING UNIT HEATERS LEVEL AND PLUMB. C. INSTALL WALL-MOUNTED THERMOSTATS AND SWITCH CONTROLS IN ELECTRICAL OUTLET BOXES AT HEIGHTS TO MATCH LIGHTING CONTROLS. VERIFY LOCATION OF THERMOSTATS AND OTHER EXPOSED CONTROL SENSORS WITH DRAWINGS AND ROOM DETAILS BEFORE INSTALLATION.
SECTION 23 82 19 - DUCTED HIGH STATIC VRF FAN COIL UNITS 1. MANUFACTURERS: LG ELECTRONICS, DAIKIN OR APPROVED EQUAL. 2. FAN COIL UNIT COIL WILL BE SINGLE REFRIGERANT CIRCUIT. 3. SURFACE-BURNING CHARACTERISTICS: INSULATION AND ADHESIVE SHALL HAVE A COMBINED MAXIMUM FLAME-SPREAD INDEX OF 25 AND SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO ASTM E 84 BY A QUALIFIED TESTING AGENCY. 4. DRAIN PANS: STAINLESS STEEL OR HIGH IMPACT POLYSTYRENE RESIN (HIPS). STAINLESS STEEL PANS AND DRAIN CONNECTIONS TO COMPLY WITH ASHRAE 62.1. DRAIN PANS SHALL BE REMOVABLE. DRAIN PAN SHALL HAVE A SECONDARY DRAIN PORT/PLUG ALLOWING THE PAN TO BE DRAINED FOR SERVICE. DRAIN PANS SHALL BE PROVIDED WITH A SAFETY SWITCH THAT WILL SHUT OFF THE INDOOR UNIT IF THE CONDENSATE RISES TOO HIGH IN THE DRAIN PAN. 5. CABINET: COATED METAL CABINET. COLD SURFACES SHALL BE COVERED WITH A COATED POLYSTYRENE INSULATING MATERIAL. THE COLD SURFACE AREAS OF THE CASE SHALL BE COVERED EXTERNALLY WITH SHEET INSULATION MADE OF ETHYLENE PROPYLENE DIENE MONOMER (M-CASS) (EPDM) CONFORMING TO ASTM STANDARD D 1418. THE CASE SHALL BE PROVIDED WITH HANGER BRACKETS DESIGNED TO SUPPORT THE UNIT WEIGHT ON FOUR CORNERS. HANGER BRACKETS SHALL HAVE PRE-PUNCHED HOLES DESIGNED TO ACCEPT FIELD SUPPLIED, ALL-THREAD ROD HANGERS. 6. FILTERS: PROVIDE FACTORY INSTALLED WASHABLE FILTER WITH ANTIFUNGAL TREATMENT. 7. INDOOR REFRIGERANT COILS: COPPER TUBE, WITH MECHANICALLY BONDED ALUMINUM FINS BRAZED JOINTS AT FITTINGS. NO MORE THAN 21 FINS PER INCH. COMPLY WITH AHRI 210/240, AND LEAK TEST TO MINIMUM 450 PSIG FOR A MINIMUM 30-PSIG WORKING PRESSURE. 8. FAN AND MOTOR BOARD: REMOVABLE. 9. FANS: PROVIDE SIROCCO FANS MADE OF HIGH STRENGTH ABS GP-2200 POLYMERIC RESINS. FANS SHALL BE DIRECT DRIVE AND MOUNTED ON A COMMON SHAFT. 10. MOTOR UNITS TO BE PROVIDED WITH A BRUSHLESS DIGITALLY-CONTROLLED FAN MOTOR (BLDC) HAVING PERMANENTLY LUBRICATED AND SEALED BALL BEARINGS. 11. WIRING TERMINATION: CONNECT MOTOR TO CHASSIS WIRING WITH PLUG CONNECTION. 12. PROVIDE UNITS THAT ARE FACTORY WIRED WITH NECESSARY ELECTRICAL COMPONENTS, INTEGRAL MICROPROCESSORS, PRINTED CIRCUIT BOARDS, THERMISTORS, SENSORS, TERMINAL BLOCKS, AND LUGS FOR POWER WIRING. 13. PROVIDE MICROPROCESSOR-BASED ALGORITHMS FOR COMPONENT PROTECTION, SOFT-START CAPABILITY, REFRIGERATION SYSTEM PRESSURE, TEMPERATURE, DEFROST, AND AMBIENT CONTROL. 14. PROVIDE A MATCHED WIRED TEMPERATURE SENSOR WITH SIMPLE OPERATOR INTERFACE TO CONTROL UNIT MODE, COOLING AND HEATING SETPOINTS, 7 DAY SCHEDULING, AND FAN SPEED. 15. PROVIDE FIELD INSTALLED CONDENSATE PUMP. 16. IF SCHEDULED: PROVIDE MERV 8 (OR 13) FILTERS HOUSED IN A FACTORY PROVIDED FILTER BOX.	SECTION 23 23 00 - REFRIGERANT PIPING 1. SIZE PER A/C UNIT MANUFACTURER'S RECOMMENDATION, INCLUDING REQUIREMENT FOR LONG LINE APPLICATIONS. PROVIDE SOLENOID VALVES, TRAPS AND/OR ACCUMULATOR WHEN RECOMMENDED BY CONDENSING UNIT VENDOR, SUCH AS FOR UNDERGROUND LINES. USE FACTORY SEALED LINE SETS, UNLESS SIZE OR DISTANCE EXCEEDS FACTORY SET AVAILABILITY. ROUTE HIDDEN FROM VIEW. INSULATE SUCTION LINE IN INDOOR APPLICATIONS AND BOTH REFRIGERANT LIQUID AND SUCTON FOR OUTDOOR APPLICATIONS. 2. WALL PENETRATIONS TO BE PROVIDED AND INSTALLED WITH COMPRESSION GASKET AND SEAL CONSISTING OF A WALL FASTENING COMPRESSION MOUNTING METHOD AND TO MUST BE SUPPLIED AND FASTENED WITH ICC-ES LISTED NON-CORROSIVE SCREWS WITH PRE-LOADED NEOPRENE WASHERS. WALL OUTLET MUST PROVIDE AN INTEGRATED OVER-MOLDED FLEXIBLE ELASTOMERIC SLEEVE FOR SEALING, ISOLATING, AND SUPPORTING REFRIGERANT PIPES FOR VIBRATION. THE WALL OUTLET MUST ALSO PROVIDE EXPANSION AND CONTRACTION WALL PROTECTION FEATURES WITH GASKETS AND SEALS AS PER ENERGY CODE REQUIREMENTS. A STAINLESS STEEL CLAMP MUST BE SUPPLIED TO ALLOW A MECHANICAL CONNECTION AS INTENDED PER THE ENERGY CODES ALLOWING OFF ON REMOVABLE/REUSABLE MAINTENANCE CAPABILITIES, AND SIZED TO CO-ACT AND FIT WITH THE PIPE INSULATION PROTECTIVE COVER. WALL OUTLET INSTALLED MUST ENSURE THAT THE INSULATION PROTECTOR AND THE WALL SEAL ARE BOTH SECURELY AND MECHANICALLY FASTENED TOGETHER WITHOUT THE USE OF ADHESIVES OR ADHESIVES TAPES AS PER ENERGY CODE REQUIREMENTS. WALL OUTLET SHALL BE TESTED AND MEET THE FOLLOWING TESTING: ASTM E 331, ASTM E 283, AND ASTM E 2178. SEAL WALL PENETRATIONS WATER TIGHT. 3. PROVIDE A FLEXIBLE PVC PLASTIC UV/WEATHER PROTECTIVE COVER FOR EXTERIOR PIPING INSULATION SIMILAR TO AIREX PRO-SYSTEM KIT. THE PIPE INSULATION UV/PROTECTIVE COVER SHALL FEATURE AN OUTDOOR INDUSTRIAL GRADE COMBINED METHOD WITH MOLECULAR BONDING THAT FEATURES AN INTEGRAL, PRE-FASTENING SYSTEM THAT ALLOWS REMOVABLE/REUSABLE USE FOR MAINTENANCE AND FULL-ENCLOSURE INCLUDING CUT TO LENGTH CAPABILITIES WITHOUT THE USE OF ADHESIVES AS AN ATTACHMENT. ALL PIPE INSULATION MATERIAL MUST BE COMPLETELY COVERED AND PROTECTED. THE USE OF ANY ADHESIVES IS NOT PERMITTED FOR THIS APPLICATION. INSULATION PROTECTIVE COVER SHALL BE TESTED AND MEET ASTM E 96, ASTM D 153, ASTM D 412, ASTM D 570, ASTM E 84, AND ASTM G 21, AND SHALL MEET CLASS II VAPOR RETARDER PER ASTM E 96 - 1 PERM OR LESS. WRAPPING TAPE OR ADHESIVE TAPE IS NOT PERMITTED AS PER ENERGY CODES. 4. COPPER TUBING: ASTM B280, TYPE ACR HARD DRAWN OR ANNEALED, FITTINGS: ASME B16.22 WROUGHT COPPER, JOINTS: AWS A5.8 B30P SILVERPHOSPHORUS COPPER ALL WELDING RANGE 1190 TO 1480 DEGREES F. UNIONS, FLANGES, AND COUPLINGS: COPPER PIPE, BRONZE, SOLDERED JOINTS.	SECTION 23 22 00 - OUTDOOR SPECIALTY CONDENSING UNITS 1. MANUFACTURERS: AION, DAIKIN, TRANE OR APPROVED EQUAL. 2. CASE: OUTDOOR UNIT CASE TO BE CONSTRUCTED FROM 680 GALVANIZED STEEL. EXTERIOR SURFACES SHALL BE COATED WITH PAINT CAPABLE OF WITHSTANDING A MINIMUM 2600 HOUR SALT SPRAY TEST. UNIT TO HAVE LIFTING LUGS OR DESIGNED WITH FORKLIFT SLOTS. 3. CONTROLS: MANUFACTURER SHALL BE PROVIDED WITH ALL ALUMINUM MICRO CHANNEL, FINS AND TUBING. FANS: PROVIDE DIRECT DRIVE PROPPELLER-TYPE FANS. CONDENSER FANS SHALL BE EITHER BE HIGH EFFICIENCY ELECTRONICALLY COMMUTATED MOTOR DRIVEN (ECM) OR PROVIDED WITH PREMIUM EFFICIENCY MOTOR AND VFD. FACTORY CONTROLS SHALL MODULATE AIR FLOW TO MAINTAIN 160 PRESSURE. 5. PROVIDE A FULL REFRIGERATION SYSTEM UTILIZING R-410A REFRIGERANT. PROVIDE AUTOMATIC RESET LOW PRESSURE AND MANUAL RESET HIGH PRESSURE REFRIGERANT SAFETY CONTROLS, SCHROEDER TYPE SERVICE VALVES FOR LIQUID AND SUCTON CONNECTIONS. 6. COMPRESSOR: UNIT SHALL BE EQUIPPED WITH VARIABLE CAPACITY COMPRESSORS EITHER DIGITAL, SCROLL OR VFD DRIVEN SCROLL TYPE. NOT GAS BYPASS WILL NOT BE AN ACCEPTABLE SUBSTITUTION FOR VARIABLE CAPACITY COMPRESSORS. COMPRESSORS SHALL BE MOUNTED IN AN ISOLATED SERVICE COMPARTMENT WHICH CAN BE ACCESSED WITH AFFECTING UNIT OPERATION. LOCKABLE HINGED ACCESS DOORS SHALL PROVIDE ACCESS TO THE COMPRESSORS. COMPRESSORS SHALL BE ISOLATED FROM THE BASE PAN WITH THE COMPRESSOR MANUFACTURER'S RECOMMENDED RUBBER VIBRATION ISOLATORS. 7. CONTROLS: PROVIDE FULL DDC CONTROLS SYSTEM TO MEET SEQUENCE OF OPERATIONS. PROVIDE BACKUP INTERFACE TO UNIT CONTROLS. 8. QUALITY ASSURANCE A. PACKAGED AIR-COOLED CONDENSER UNITS SHALL BE CERTIFIED IN ACCORDANCE WITH ANSI/AHRI STANDARD 340/360 PERFORMANCE RATING OF COMMERCIAL AND INDUSTRIAL UTILITY AIR-CONDITIONING AND HEAT PUMP EQUIPMENT. B. UNIT SHALL BE CERTIFIED IN ACCORDANCE WITH UL STANDARD 1995/CSA C22.2 NO. 236, SAFETY STANDARD FOR HEATING AND COOLING EQUIPMENT. C. UNIT AND REFRIGERATION SYSTEM SHALL COMPLY WITH ASHRAE 15, SAFETY STANDARD FOR MECHANICAL REFRIGERATION. D. UNIT SHALL BE CERTIFIED IN ACCORDANCE WITH ANSI Z11.47/CSA 2.38 AND ANSI Z83.8/CSA 2.6, SAFETY STANDARD GAS-FIRED FURNACES. E. UNIT ENERGY EFFICIENCY RATIO (EER) SHALL BE EQUAL TO OR GREATER THAN PRESCRIBED BY ASHRAE 90.1. ENERGY EFFICIENT DESIGN OF NEW BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS. F. UNIT SHALL BE SAFETY CERTIFIED BY ETL AND BE ETL US AND ETL CANADA LISTED. UNIT NAMEPLATE SHALL INCLUDE THE ETL/UL CANADA LABEL. 9. WARRANTY: PROVIDE A 1 YEAR LIMITED PARTS WARRANTY ON THE COMPLETE UNIT AND 5-YEAR PARTS WARRANTY ON THE COMPRESSOR. 10. SCHEDULE: REFER TO MECHANICAL SCHEDULE NOTES FOR ADDITIONAL, UNIT OPTION REQUIREMENTS. IF ANY NOTES CONFLICT WITH THE SPECIFICATION ABOVE, THE SCHEDULE NOTES SHALL SUPERSEDE THE SPECIFICATION.	SECTION 23 34 00 - HVAC FANS 1. DIRECT DRIVE CENTRIFUGAL FAN. A. MANUFACTURERS: COOK, TWIN CITY, GREENHECK, MANUFACTURER SHALL BE ISO 9001 ACCREDITED. B. PERFORMANCE CONFORM TO AMCA STANDARD 211 AND 311. FANS MUST BE TESTED IN ACCORDANCE WITH ANSI/AMCA STANDARD 211-99 AND AMCA STANDARD 309-98 IN AN AMCA ACCREDITED LABORATORY. FANS SHALL BE CERTIFIED TO BEAR THE AMCA LABEL FOR AIR AND SOUND PERFORMANCE SEAL. C. WARRANTY: MANUFACTURER SHALL PROVIDE STANDARD LIMITED WARRANTY FOR FAN EQUIPMENT (EXCLUDING MOTOR) FOR A PERIOD OF ONE YEAR (12 MONTHS) FROM DATE OF PURCHASE. MOTOR WARRANTY SHALL BE PROVIDED BY MOTOR MANUFACTURER FOR A PERIOD OF ONE YEAR (12 MONTHS) FROM DATE OF PURCHASE. WHEN NOTIFIED IN WRITING FROM THE OWNER OF A MANUFACTURING DEFECT, MANUFACTURER SHALL PROMPTLY CORRECT DEFICIENCIES WITHOUT COST TO THE OWNER. D. INDICATION: a. MOTOR: OPEN TYPE, EC MOTOR SPECIFICALLY DESIGNED FOR FAN APPLICATIONS. AC INDUCTION TYPE MOTORS ARE NOT ACCEPTABLE. MOTOR SHALL BE PROVIDED WITH PERMANENTLY LUBRICATED BEARINGS AND INCLUDE IMPEDANCE OR THERMAL OVERLOAD PROTECTION AND DISCONNECT PLUG. b. HOUSING MATERIAL: MINIMUM 22 GAUGE GALVANIZED STEEL MATERIAL. MINIMUM 22 GAUGE GALVANIZED STEEL DAMPER ON INLET/OUTLET AS SPECIFIED ON SCHEDULE. c. INLET AND OUTLET SHALL INCLUDE SQUARE DUCT COLLARS. d. WHEEL: STATICALLY AND DYNAMICALLY BALANCED IN ACCORDANCE TO AMCA STANDARD 20-06. THE WHEEL CONE AND FAN INLET WILL BE MATCHED AND SHALL HAVE PRECISE RUNNING TOLERANCES FOR MAXIMUM PERFORMANCE AND OPERATING EFFICIENCY. BLADES CONSTRUCTED OF ALUMINUM OR INJECTION MOLDED OF POLYPROPYLENE RESIN. E. EXECUTION a. COMPLIANCE: COMPLY WITH MANUFACTURER'S PRODUCT DATA, INCLUDING TECHNICAL BULLETINS, PRODUCT CATALOG INSTALLATION INSTRUCTIONS. b. EXAMINATION: EXAMINE AREAS TO RECEIVE FANS. NOTIFY THE ENGINEER OF CONDITIONS THAT WOULD AFFECT INSTALLATION OR SUBSEQUENT UTILIZATION AND MAINTENANCE OF FANS. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. c. PREPARATION: ENSURE ROOF OPENINGS ARE SQUARE, ACCURATELY ALIGNED, CORRECTLY LOCATED AND IN TOLERANCE. ENSURE DUCT IS PLUMB, SIZED CORRECTLY, AND TO PROPER ELEVATION ABOVE ROOF DECK. INSTALL DUCT AS SPECIFIED IN AIR DISTRIBUTION. d. INSTALLATION: INSTALL FANS SYSTEM AS INDICATED ON THE INSTALLATION, OPERATION AND MAINTENANCE MANUAL, (IOM) AND CONTRACT DRAWINGS. INSTALL FANS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. e. SYSTEM STARTUP: REFER TO INSTALLATION, OPERATION, AND MAINTENANCE MANUAL (IOM). f. ADJUSTING: ADJUST EXHAUST FANS TO FUNCTION PROPERLY. ADJUST BELT TENSION (AS REQUIRED); LUBRICATE BEARINGS; ADJUST DRIVE FOR FINAL SYSTEM BALANCING. CHECK WHEEL OVERLAP. g. CLEANING: CLEAN AS RECOMMENDED BY MANUFACTURER. DO NOT USE MATERIAL OR METHODS WHICH MAY DAMAGE FINISH SURFACE OR SURROUNDING CONSTRUCTION. h. PROTECTION: PROTECT INSTALLED PRODUCT AND FINISHED SURFACES FROM DAMAGE DURING CONSTRUCTION. PROTECT INSTALLED EXHAUST FANS TO ENSURE THAT, EXCEPT FOR NORMAL WEATHERING, FANS WILL BE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

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C	CONTRACTOR SHALL VERIFY THERMOSTATS SERVE THEIR RESPECTIVE ZONES.
D	CONTRACTOR SHALL CONDUCT FIELD SURVEY TO VERIFY ALL EXISTING CONDITIONS ASSOCIATED WITH SCOPE OF WORK PRIOR TO SUBMITTING BIDS. ANY ADDITIONAL WORK REQUIRED ASSOCIATED WITH FAILURE TO PERFORM A FIELD SURVEY PRIOR TO SUBMITTING BIDS SHALL BE AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER.
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KEYNOTES	
KEYNOTE	DESCRIPTION
1	PROVIDE PROGRAMMABLE BUILDING STANDARD THERMOSTAT. COORDINATE EXACT FINAL LOCATION WITH ARCHITECT.
2	PROVIDE RETURN AIR PLENUM AND FILTER BOX AT BACK OF FCU. PROVIDE 1" THICK INTERIOR LINING FOR ACOUSTICS. PROVIDE MANUAL VOLUME DAMPERS TO BALANCE OUTSIDE AIR AND RETURN AIR.
3	OUTSIDE AIR DUCT WORK SHALL BE ROUTED THROUGH CHASE. REFER TO ARCHITECTURE FOR CHASE LOCATION AND DETAIL.
4	PROVIDE SLOT TRACK FOR RETURN AND SUPPLY SLOT DIFFUSERS. DETAILING AND FINISH AS MATCH RETURN AIR SLOT TRACK ON ADJACENT SIDE OF THE ROOM. SUPPLY AIR SLOTS AND INSULATED PLENUMS TO BE PROVIDED FOR SLOT DIFFUSER.
5	OUTSIDE AIR DUCT TO GRAVITY VENTILATOR LOCATED ON ROOF.
6	EXHAUST AIR DUCT TO GRAVITY VENTILATOR LOCATED ON ROOF.
7	RELIEF AIR DUCT TO GRAVITY VENTILATOR LOCATED ON ROOF.
8	MOUNT SLOT DIFFUSER FLUSH WITH FURDOWN/ WALL. CONTRACTOR TO COORDINATE FINAL LOCATION, DETAILING, COLOR, AND MOUNTING HEIGHT WITH ARCHITECT.
9	CONDENSING UNIT LOCATED ON 6" CONCRETE HOUSEKEEPING PAD. CONTRACTOR TO COORDINATE EXACT FINAL LOCATION WITH ARCHITECT. CONTRACTOR TO MAINTAIN INSTALL/CLEARANCE REQUIREMENTS SPECIFIED BY THE MANUFACTURER.
10	PROVIDE CONTINUOUS FLOWBAR IN AREA INDICATED. AREA NOT USED FOR SUPPLY SHALL BE USED FOR RETURN AIR. PROVIDE PERFORATED RETURN LIGHT SHIELD. COORDINATE EXACT FINAL LOCATION WITH ARCHITECT.



1 MECHANICAL PLAN
3/16" = 1'-0"
TRUE NORTH



Weed Corley Fish
Vista Ridge and Bagdad Rd.
Leander, TX 78641

N-VIZION
FORMS - ENVIRONMENTS - IMAGES

MECHANICAL PLAN

Project Number: 230502
N-vizion Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration Nos. TX P.E. FmF-2223, TX S-498, LA 9413 MI,
130106591, NV 8252, NC 14883, OH ARC-1817885

Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set



TBPE Registration Number: 18865
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M2.01

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KEYNOTES	
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1	ROUTE 1" INSULATED CONDENSATE LINE TO THE INDIRECT RECEPTOR LOCATED NEAR SINK. CONTRACTOR SHALL COORDINATE WITH PLUMBING.
2	ROUTE 1" INSULATED CONDENSATE LINE TO THE INDIRECT RECEPTOR LOCATED JANITOR MOP SINK. CONTRACTOR SHALL COORDINATE WITH PLUMBING.
3	ROUTE REFRIGERANT LINES TO RESPECTIVE UNIT LOCATED AT MECHANICAL YARD. SIZE PER MANUFACTURER'S RECOMMENDATION. FIELD VERIFY EXACT ROUTING WITH EXISTING CONDITIONS.
4	PIPING SHALL BE ROUTED THROUGH CHASE. REFER TO ARCHITECTURE FOR CHASE LOCATION AND DETAIL.
5	PROVIDE HRB IN APPROXIMATE LOCATION. REFRIGERANT PIPING SHALL BE SIZED BASED ON INSTALLED PIPE LENGTHS AND MANUFACTURERS GUIDELINES. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES.



1 MECHANICAL PIPING PLAN
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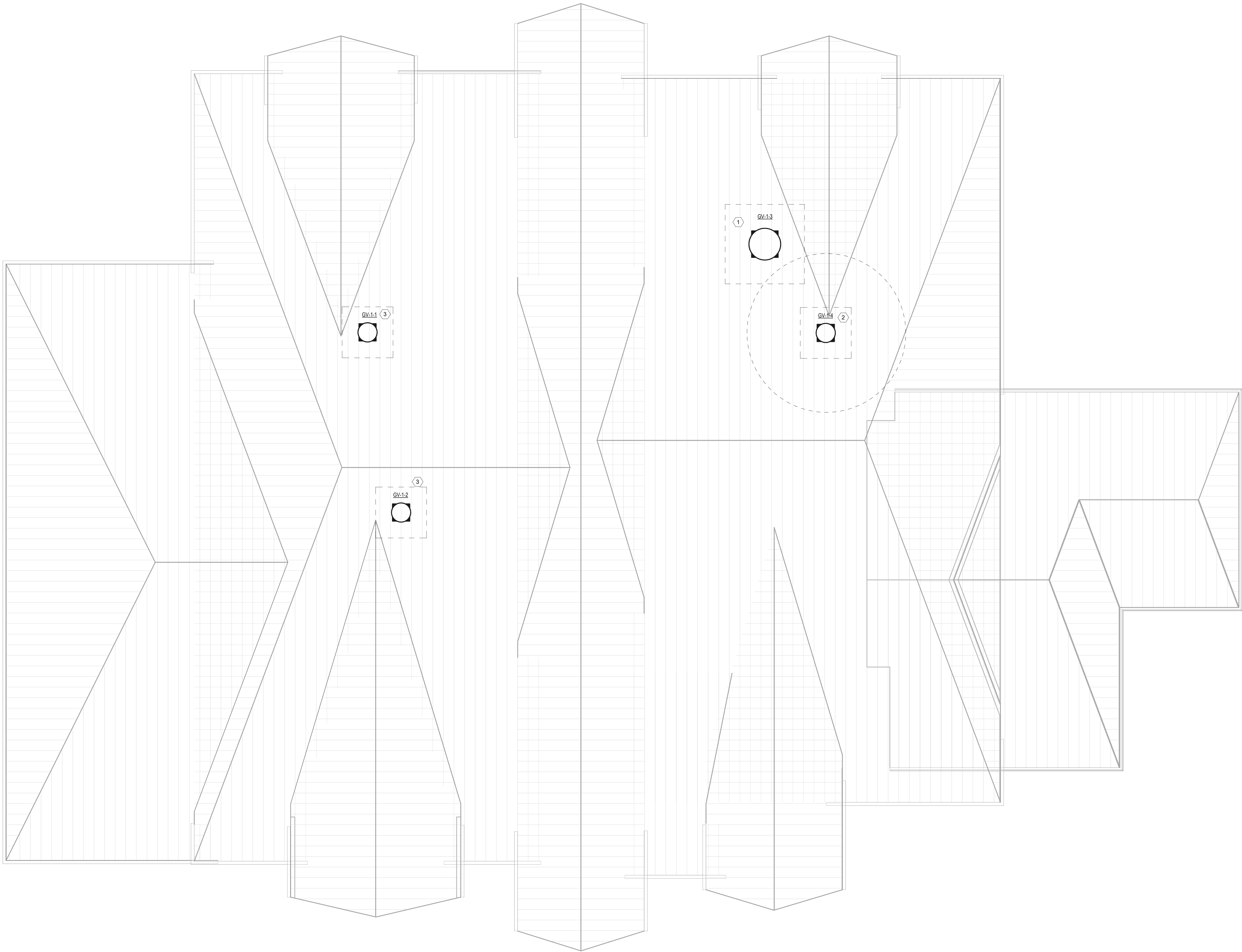
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1301065591, NV 8252, NC 14883, OH ARC-1817885

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M2.02



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KEYNOTES	
KEYNOTE	DESCRIPTION
1	INTAKE GRAVITY VENTILATOR MOUNTED ON ROOF. COORDINATE DUCT ROUTING WITH STRUCTURE. DISCHARGE SHALL BE A MINIMUM OF 10 FEET FROM ALL EXHAUST AIR.
2	EXHAUST GRAVITY VENTILATOR MOUNTED ON ROOF. COORDINATE DUCT ROUTING WITH STRUCTURE. DISCHARGE SHALL BE A MINIMUM OF 10 FEET FROM ALL AIR INTAKES.
3	GRAVITY VENTILATOR TO BE FLASHED AIR TIGHT TO EXISTING ROOF STRUCTURE. BAROMETRIC RELIEF DAMPER TO BE SET TO MAINTAIN BUILDING PRESSURIZATION TO +0.02 (ADJ.)

1 MECHANICAL ROOF PLAN
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TRUE NORTH

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KEYNOTES	
KEYNOTE	DESCRIPTION
1	PROVIDE TRIMLESS ACCESS PANEL FOR EQUIPMENT LOCATE ABOVE INACCESSIBLE CEILING. COORDINATE EXACT SPECIFICATION, SIZE, AND DIMENSION WITH ARCHITECT.



1 MECHANICAL CEILING COORDINATION PLAN
3/16" = 1'-0"



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MECHANICAL CEILING COORDINATION PLAN
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	Project
	A23045 WCF Leander
	Title
	Controller wiring schematics
	Control Group
	Date
	05/14/2024
	Drawing No

CU DOAS (4)
REYQ192XBTJA

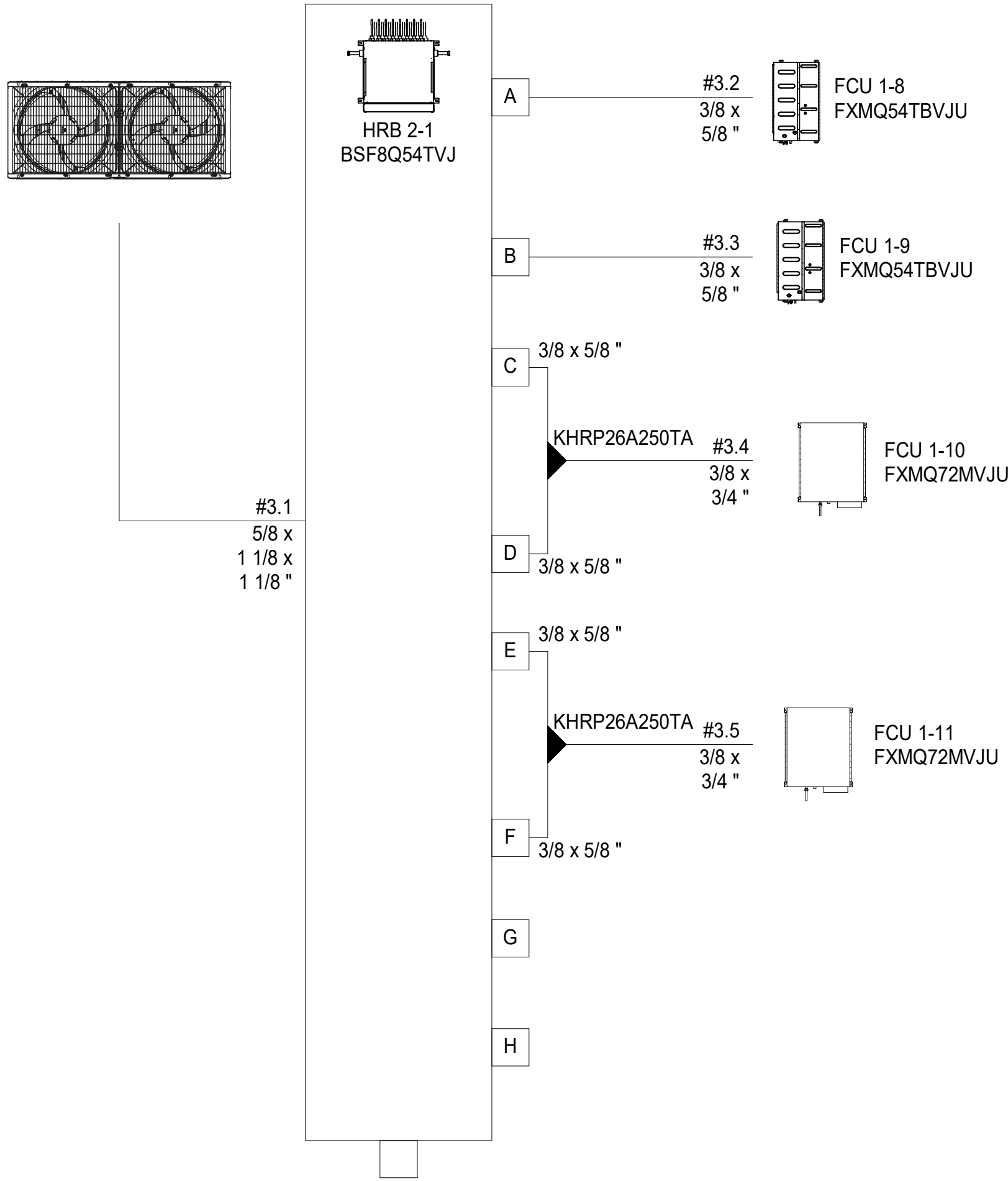
CU 1-1 (7)
REYQ168AATJA

CU 1-2 (4)
REYQ192AATJA

5 CONTROLLER WIRING DIAGRAM
NOT TO SCALE

	Client
	USA
	Project
	A23045 WCF Leander
	Title
	Piping schematics
	CU 1-2
	Air cooled heat recovery
	VRV EMERION (208-230V)
	REYQ192AATJA
	Date
	05/14/2024
	Drawing No

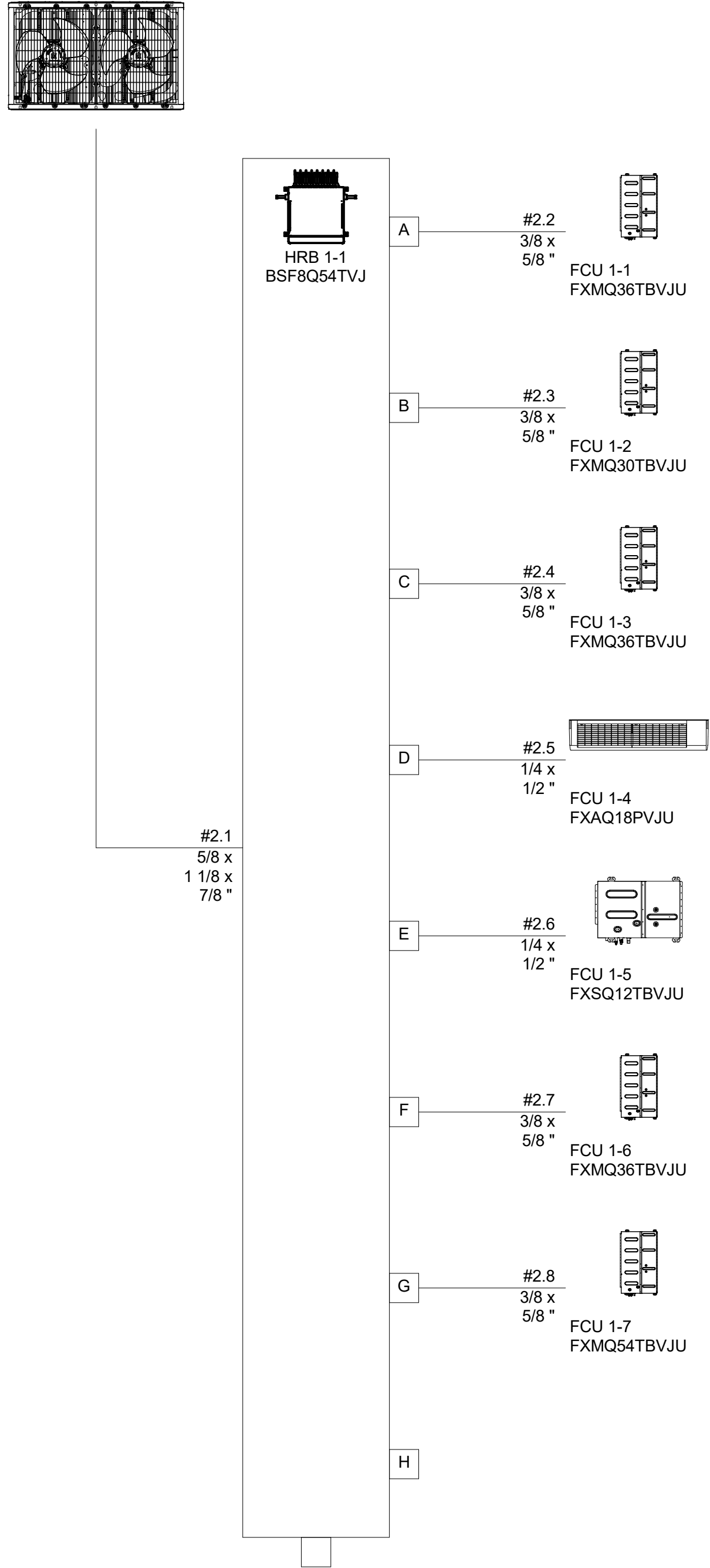
CU 1-2
REYQ192AATJA



4 HP 1-2 PIPING DIAGRAM
NOT TO SCALE

	Client
	USA
	Project
	A23045 WCF Leander
	Title
	Piping schematics
	CU 1-1
	Air cooled heat recovery
	VRV EMERION (208-230V)
	REYQ168AATJA
	Date
	10/15/2024
	Drawing No

CU 1-1
REYQ168AATJA



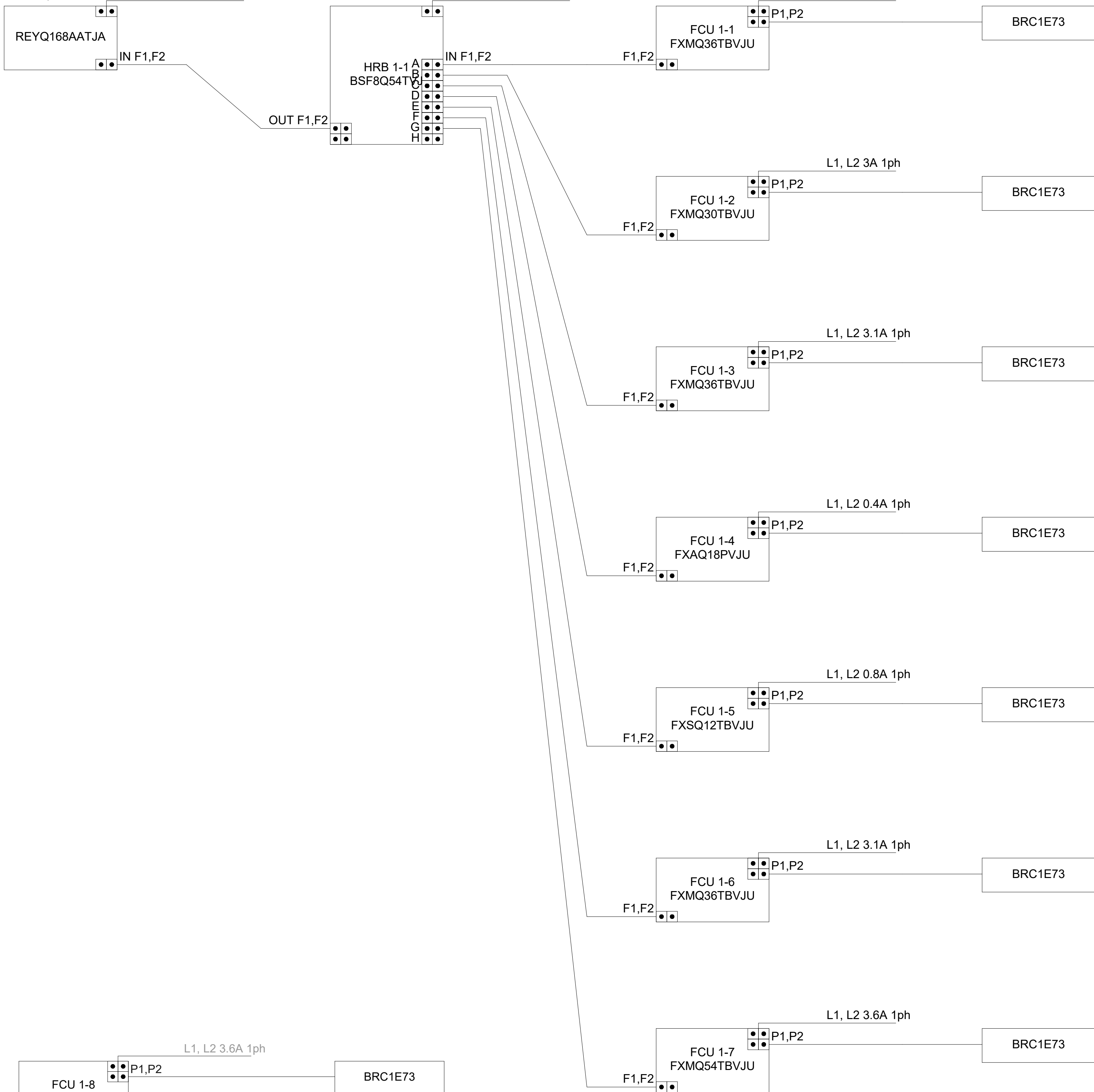
3 HP 1-1 PIPING DIAGRAM
NOT TO SCALE

	Client
	USA
	Project
	A23045 WCF Leander
	Title
	Wiring schematics
	CU 1-2
	Air cooled heat recovery
	VRV EMERION (208-230V)
	REYQ192AATJA
	Date
	05/14/2024
	Drawing No

2 HP 1-2 WIRING DIAGRAM
NOT TO SCALE

	Client
	USA
	Project
	A23045 WCF Leander
	Title
	Wiring schematics
	CU 1-1
	Air cooled heat recovery
	VRV EMERION (208-230V)
	REYQ168AATJA
	Date
	10/15/2024
	Drawing No

CU 1-1
REYQ168AATJA



1 HP 1-1 WIRING DIAGRAM
NOT TO SCALE



Weed Corley Fish
Vista Ridge and Bagdad Rd.
Leander, TX 78641

N-VIZION
FORMS - ENVIRONMENTS - IMAGES

MECHANICAL VRF DIAGRAM
Project Number: 230502
N-vizion Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration Nos. TX PE Firm F-12223, TX25498, LA 9413 MI,
1301065891, NV 8252, NC 14883, OH ARC-1817885

Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set

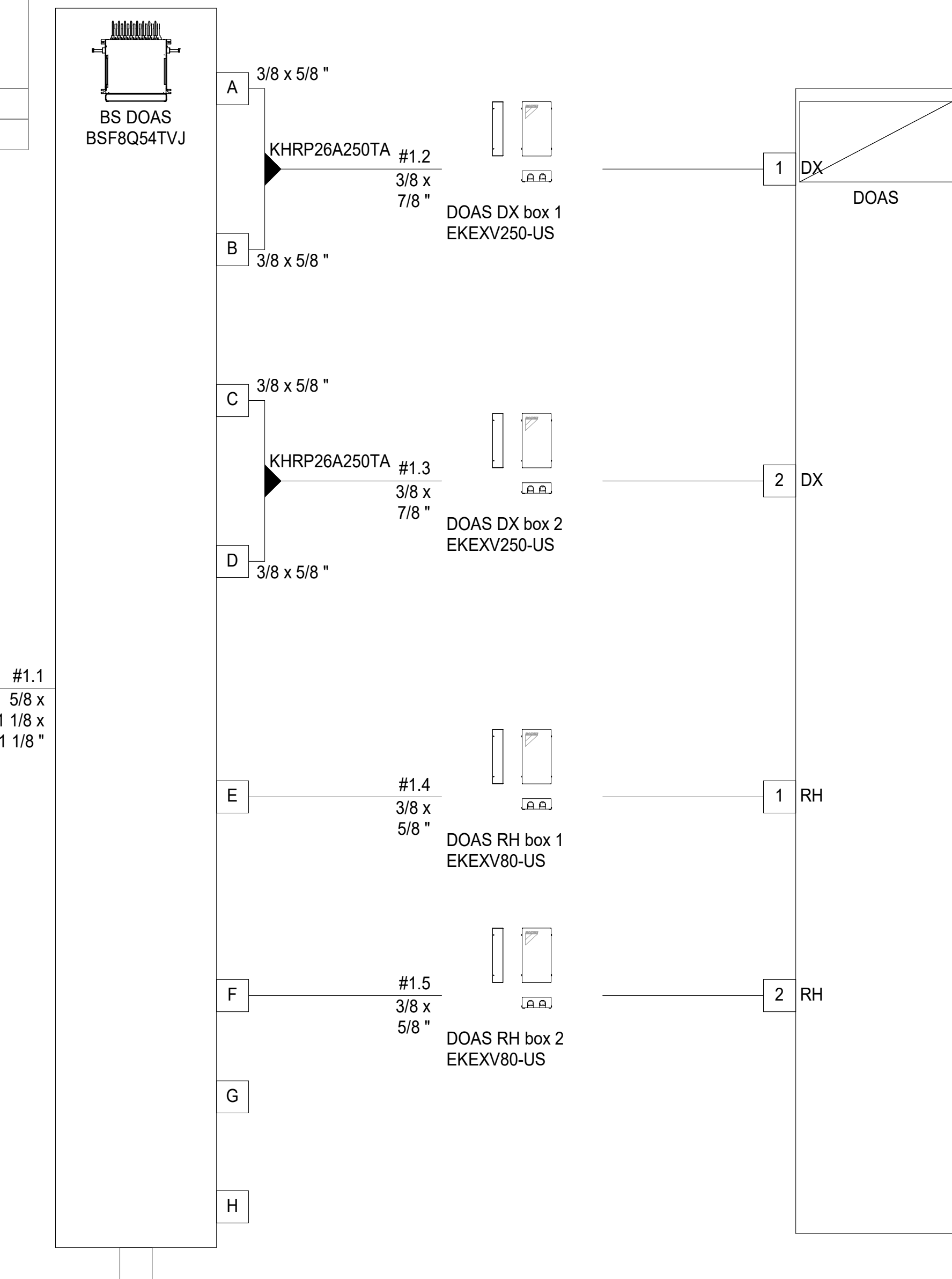
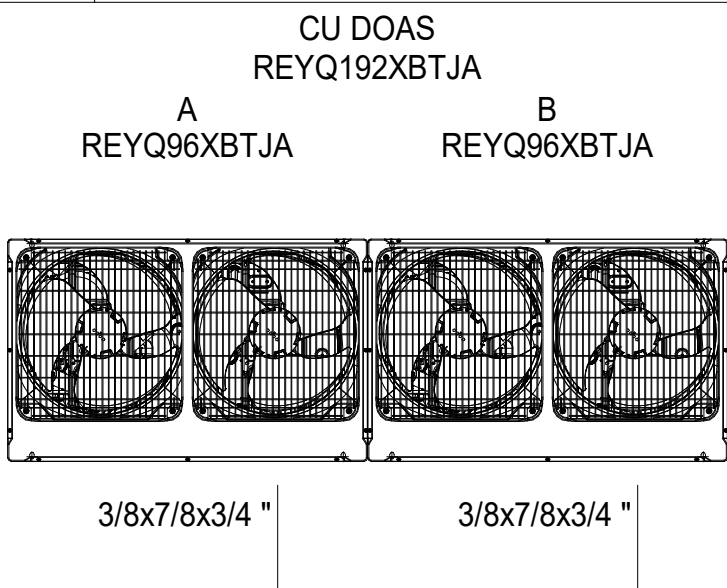


TBPE Registration Number: 18865
5316 Hwy. 290 Service Rd., Suite 130
Austin, TX 78735
512-692-9224
www.infinitymep.com

M4.01

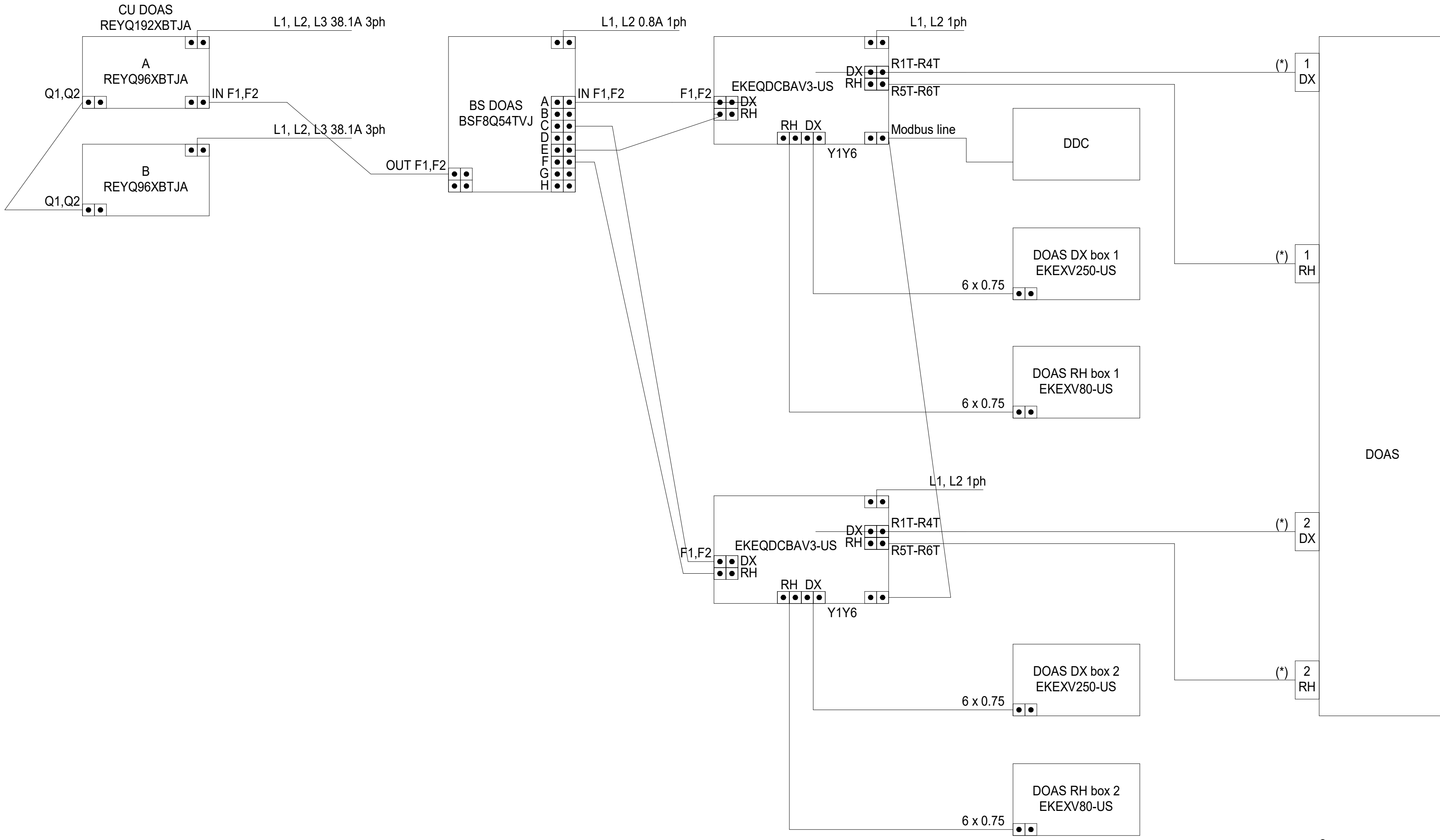
Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set

Client	
	USA
Project	A23045 WCF Leander
Title	Piping schematics CU DOAS Air cooled heat recovery VRV-IV-X-XB (208-230V) REYQ192XBTJA = REYQ96XBTJA + REYQ96XBTJA
Date	05/14/2024
Drawing No	



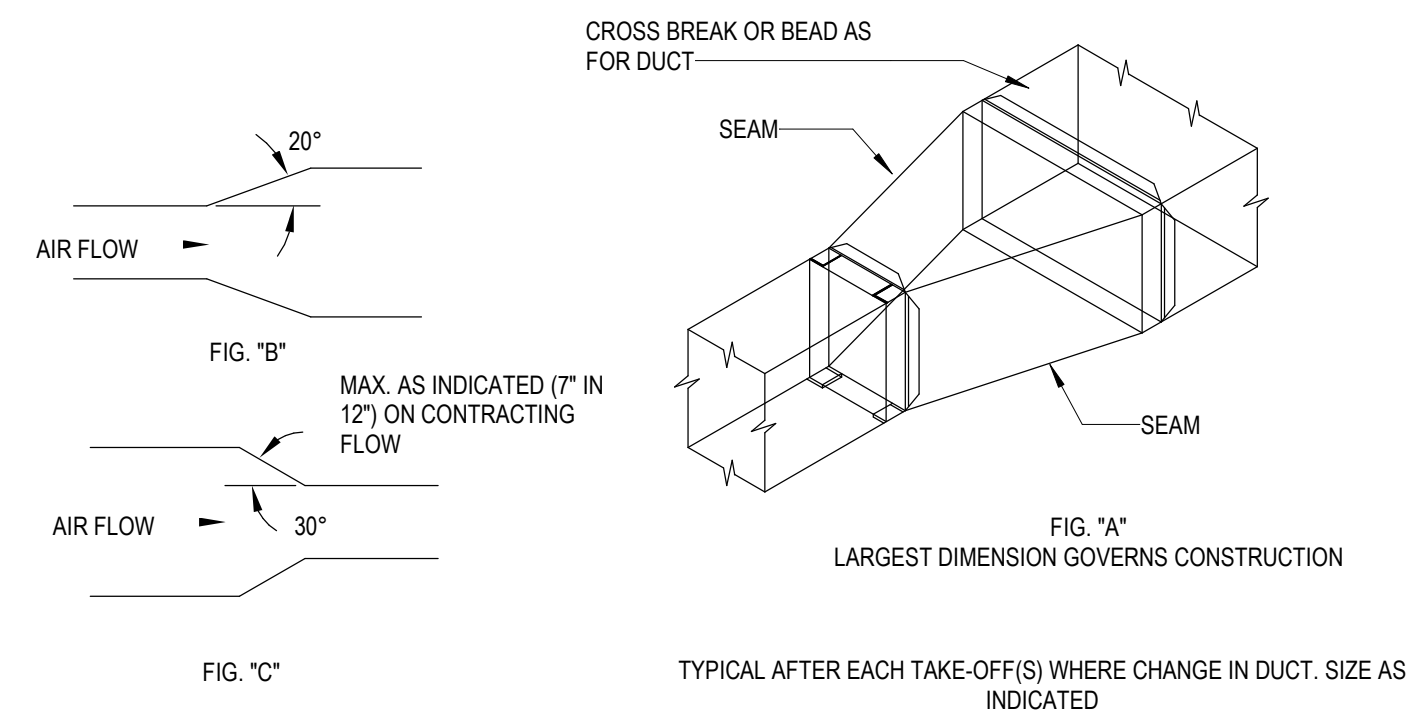
2 DOAS PIPING DIAGRAM
NOT TO SCALE

Client	
	USA
Project	A23045 WCF Leander
Title	Wiring schematics CU DOAS Air cooled heat recovery VRV-IV-X-XB (208-230V) REYQ192XBTJA = REYQ96XBTJA + REYQ96XBTJA
Date	05/14/2024
Drawing No	



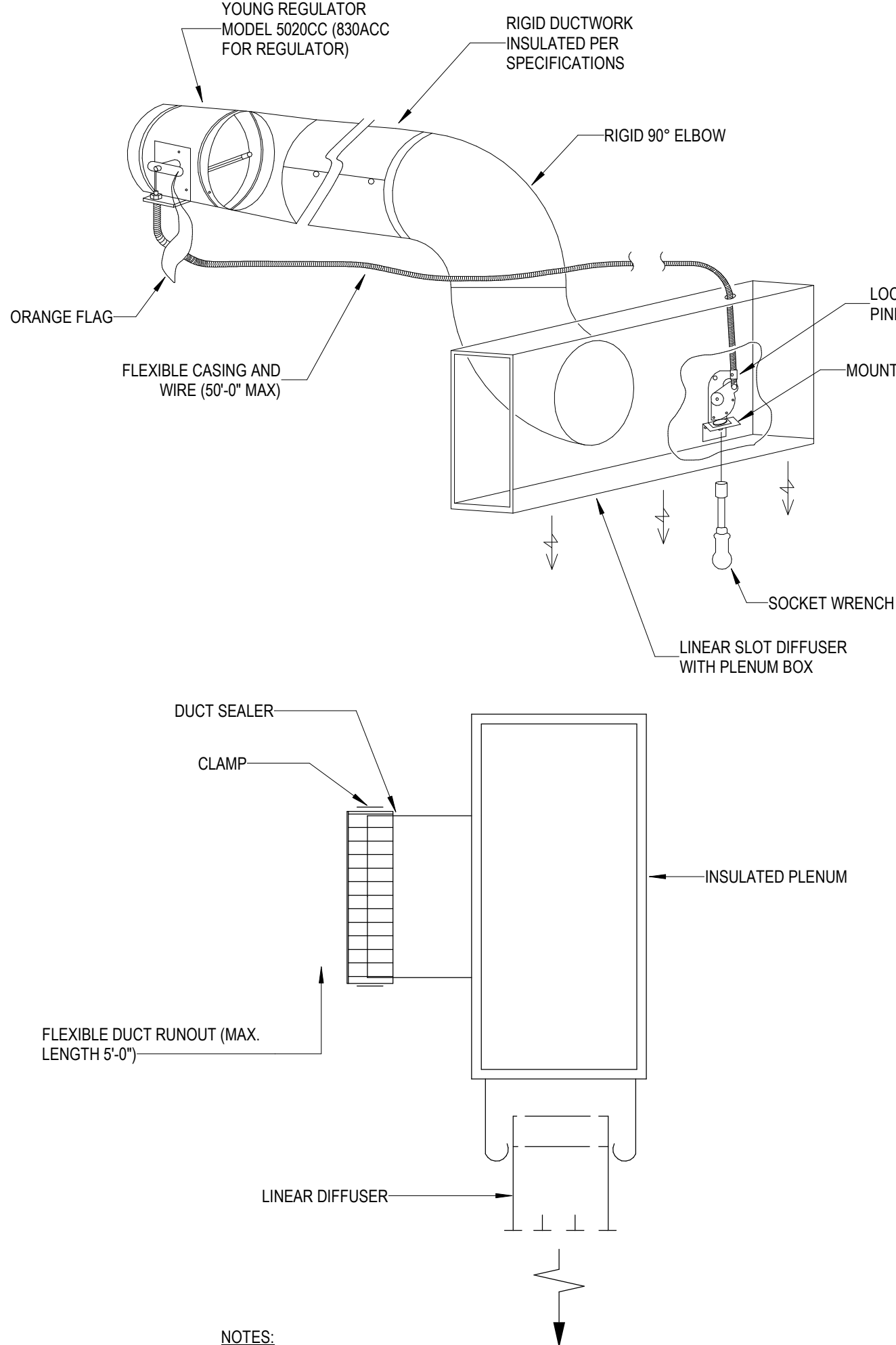
1 DOAS WIRING DIAGRAM
NOT TO SCALE

Date	Description	Rev	Per	Rev	Per
10/15/24	IFP				
10/25/24	Rev	1	Per	1	Per

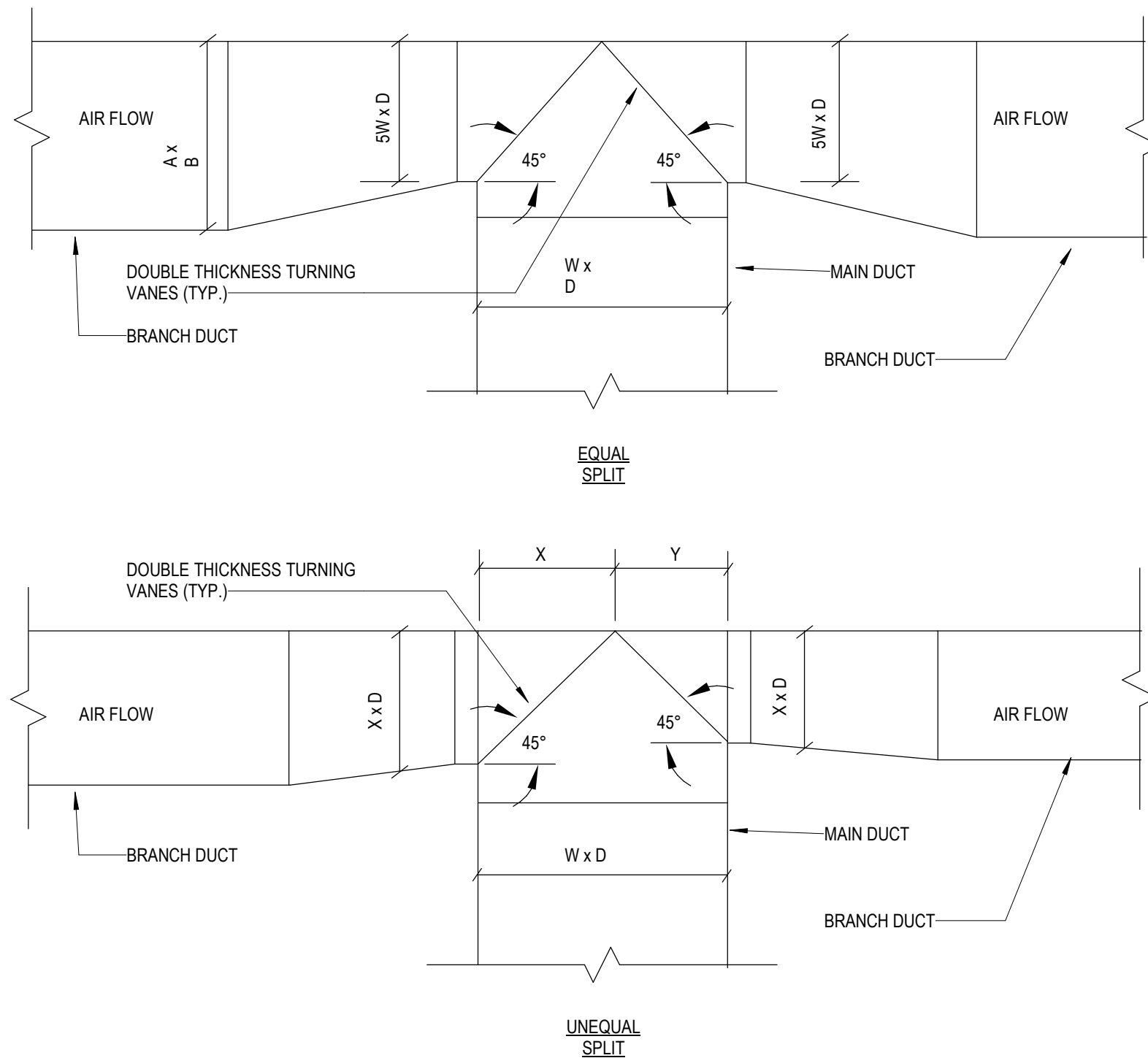


3 DUCT TRANSITION DETAIL
NOT TO SCALE

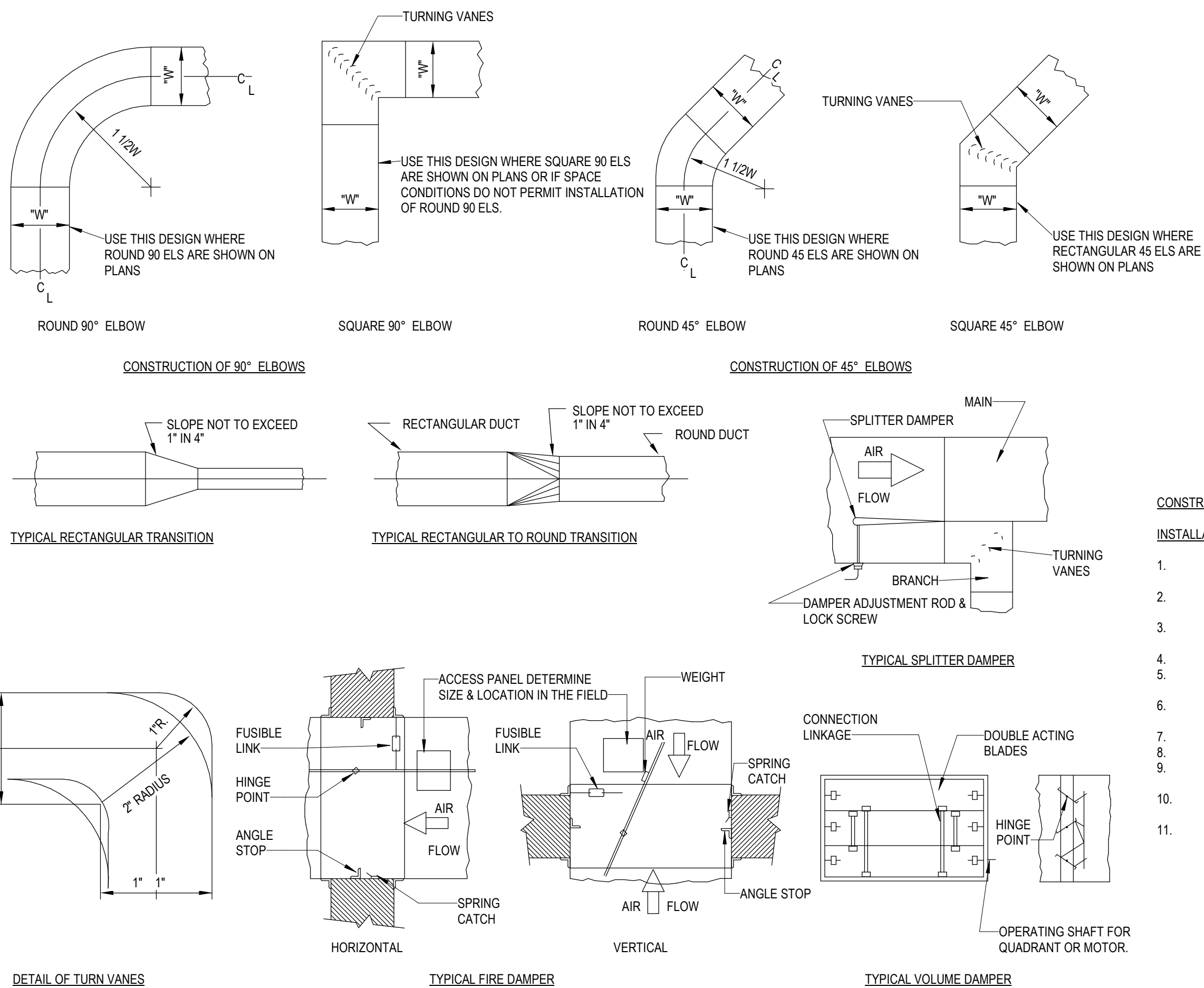
6 TYPICAL PLENUM ARRANGEMENT DETAIL
NOT TO SCALE



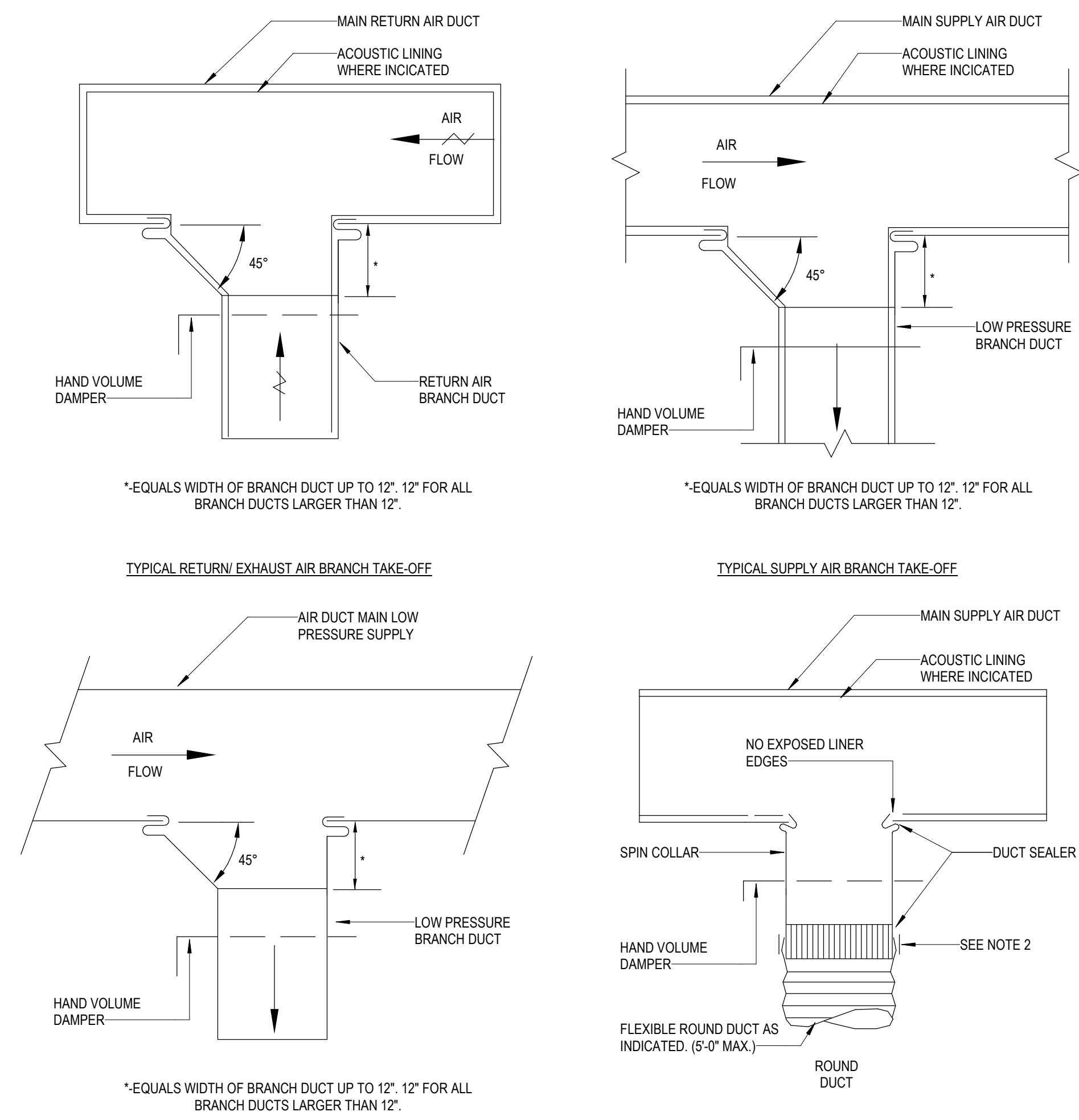
7 LINEAR DIFFUSER CONNECTION
NOT TO SCALE



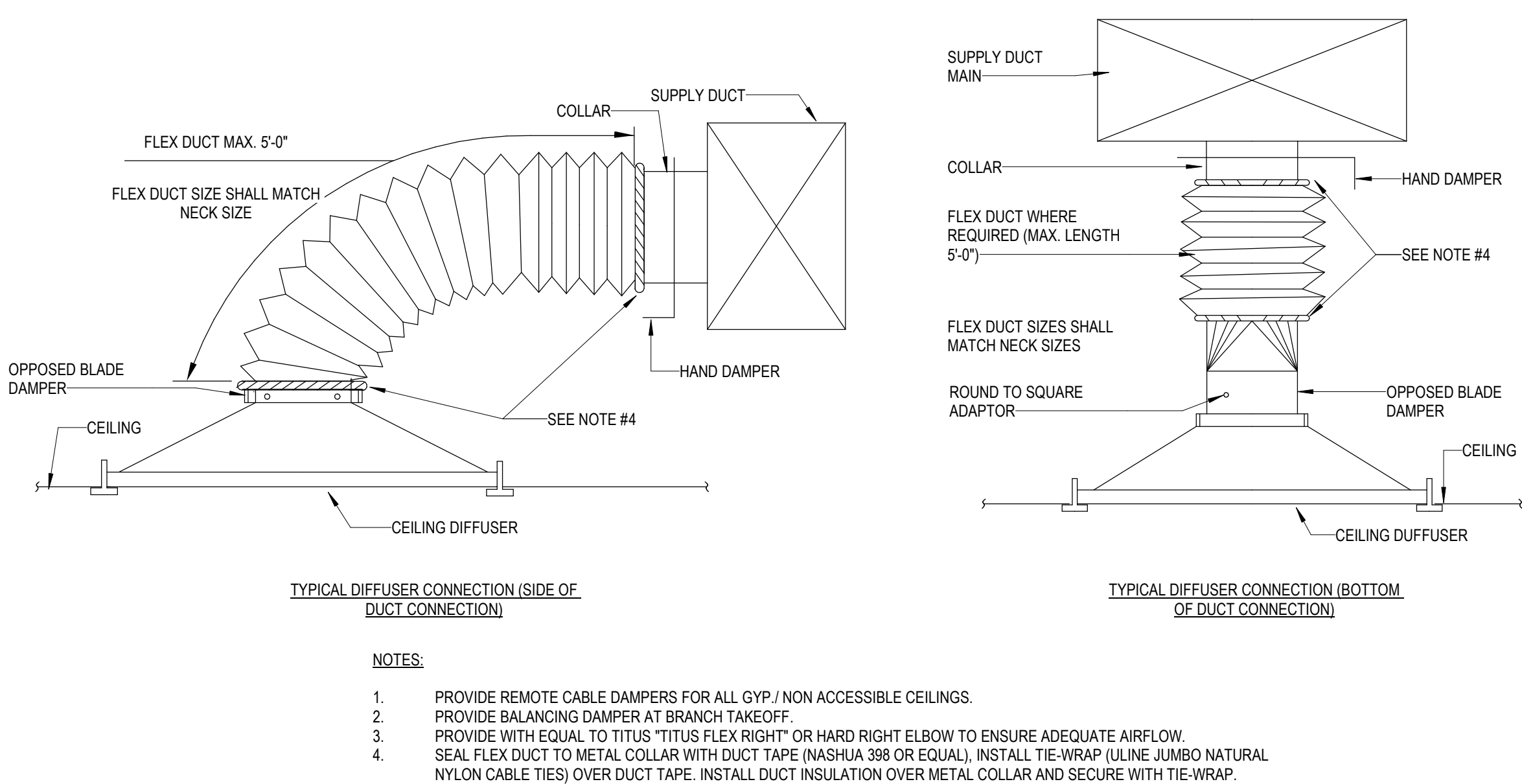
5 DUCT TEE CONNECTION DETAIL
NOT TO SCALE



4 LOW VELOCITY DUCT DETAIL
NOT TO SCALE

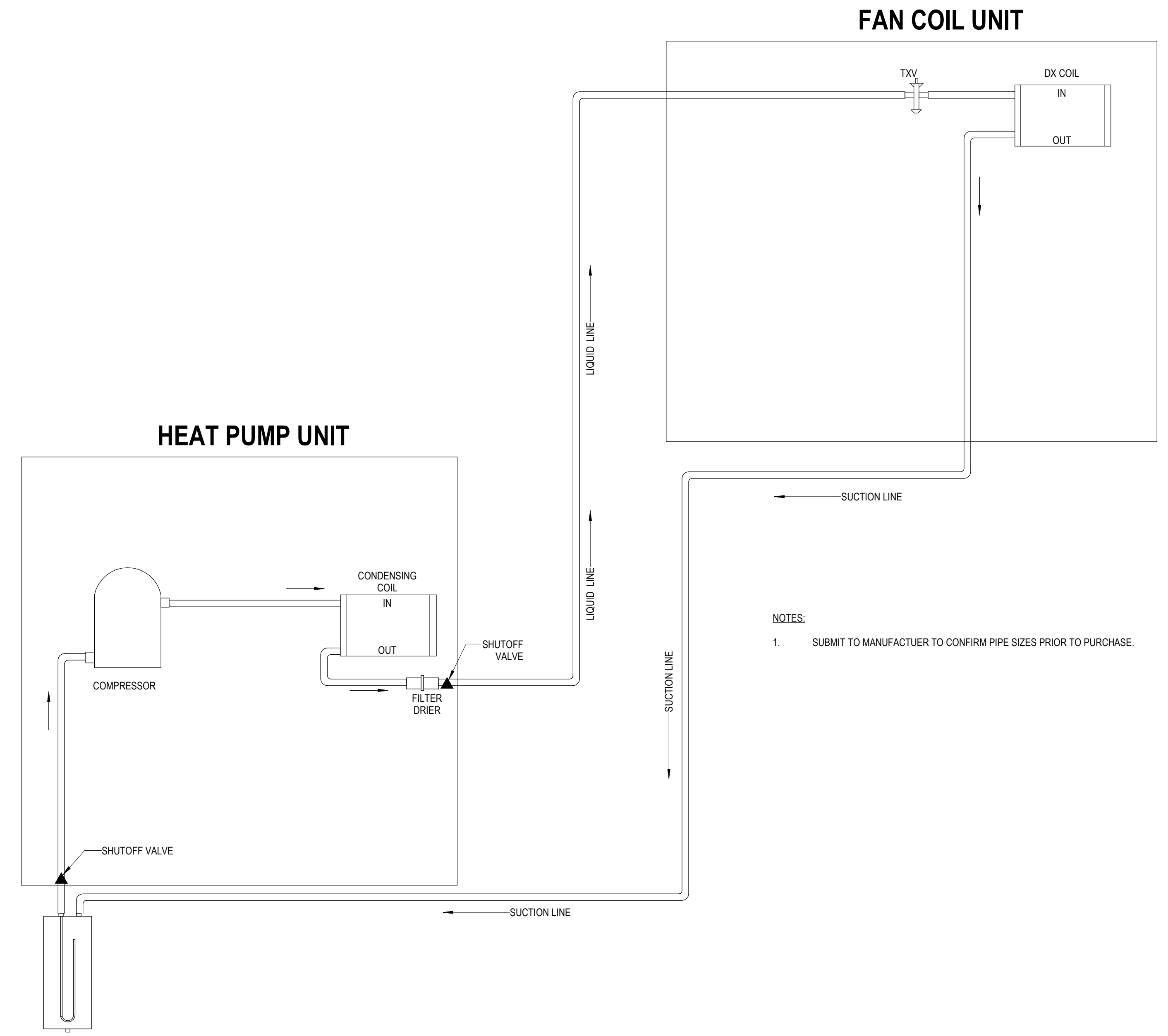


2 TYPICAL LOW PRESSURE BRANCH DUCT TAKE-OFF DETAIL
NOT TO SCALE

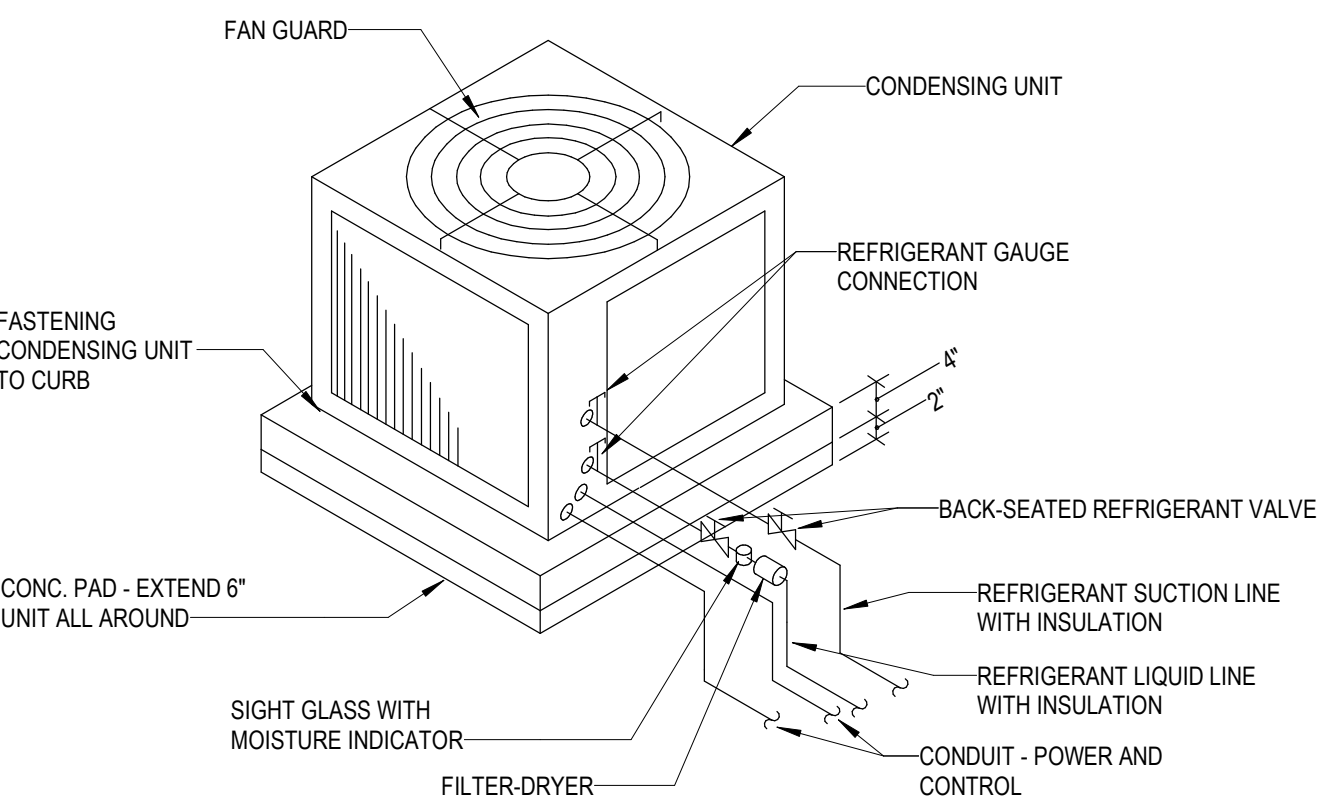


1 TYPICAL DIFFUSER CONNECTION DETAIL
NOT TO SCALE

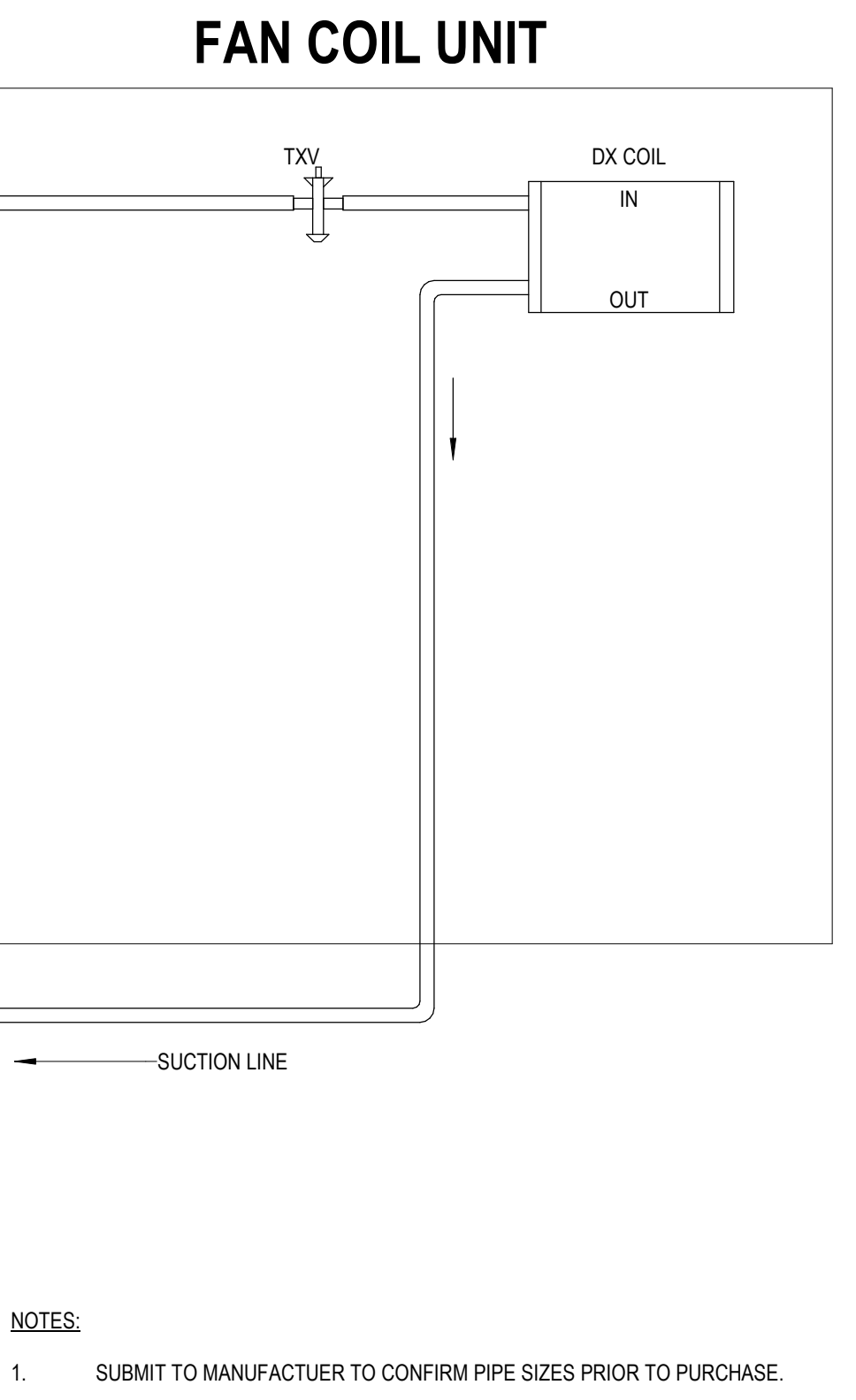
Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set



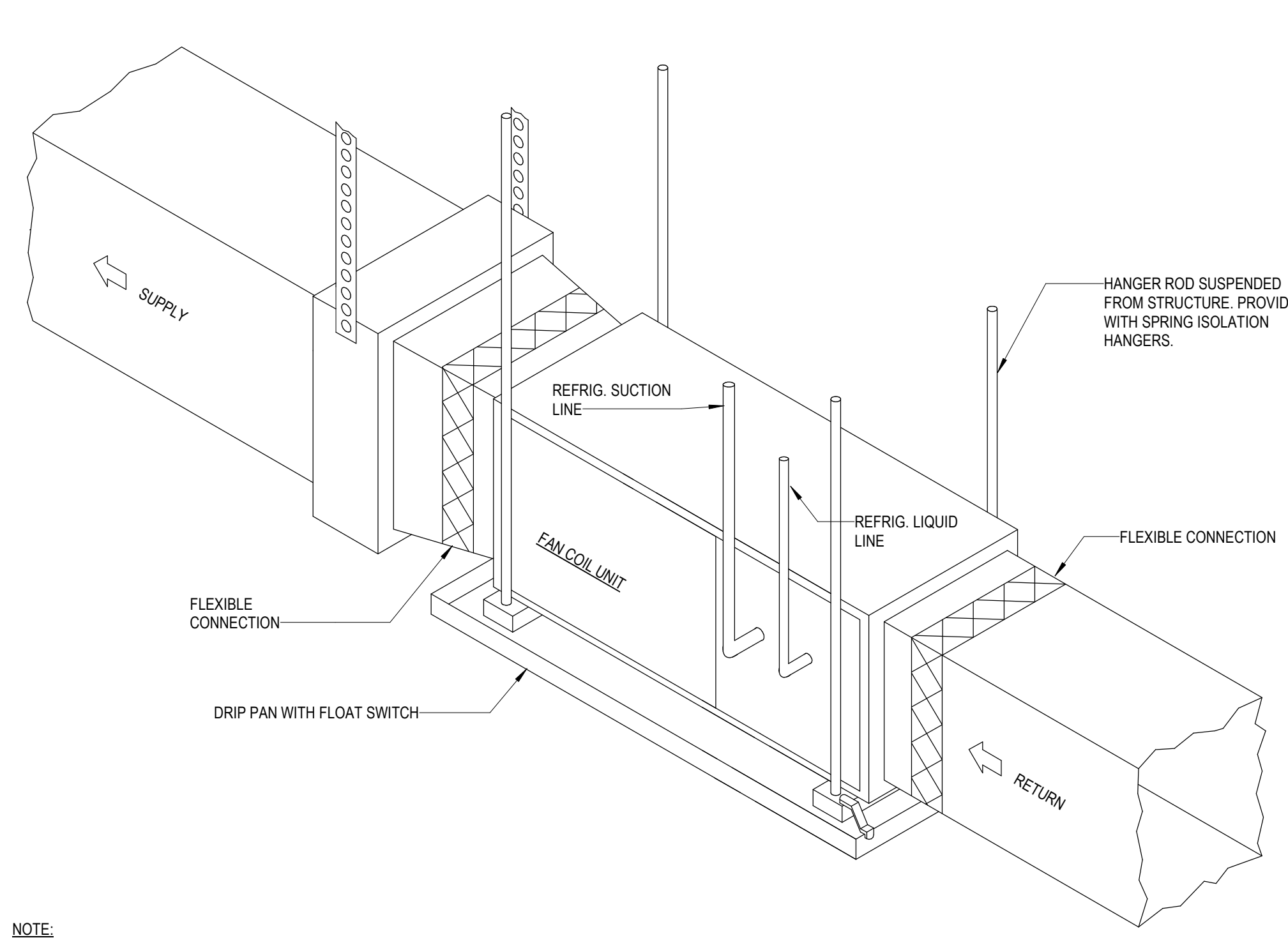
7 DX SPLIT SYSTEM (DOWNFLOW)
NOT TO SCALE



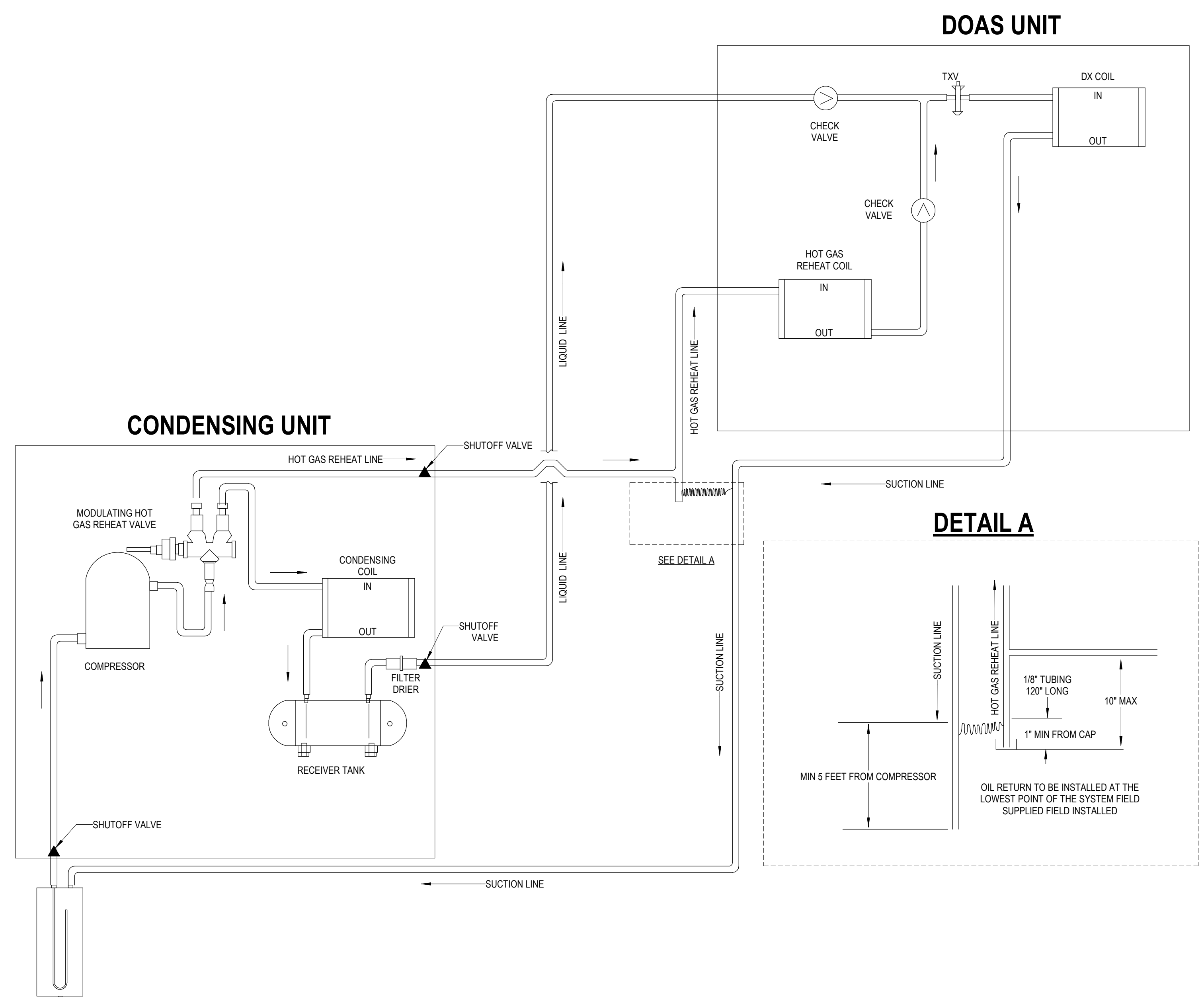
6 DX CONDENSING UNIT - SLAB MOUNTED AT GRADE
NOT TO SCALE



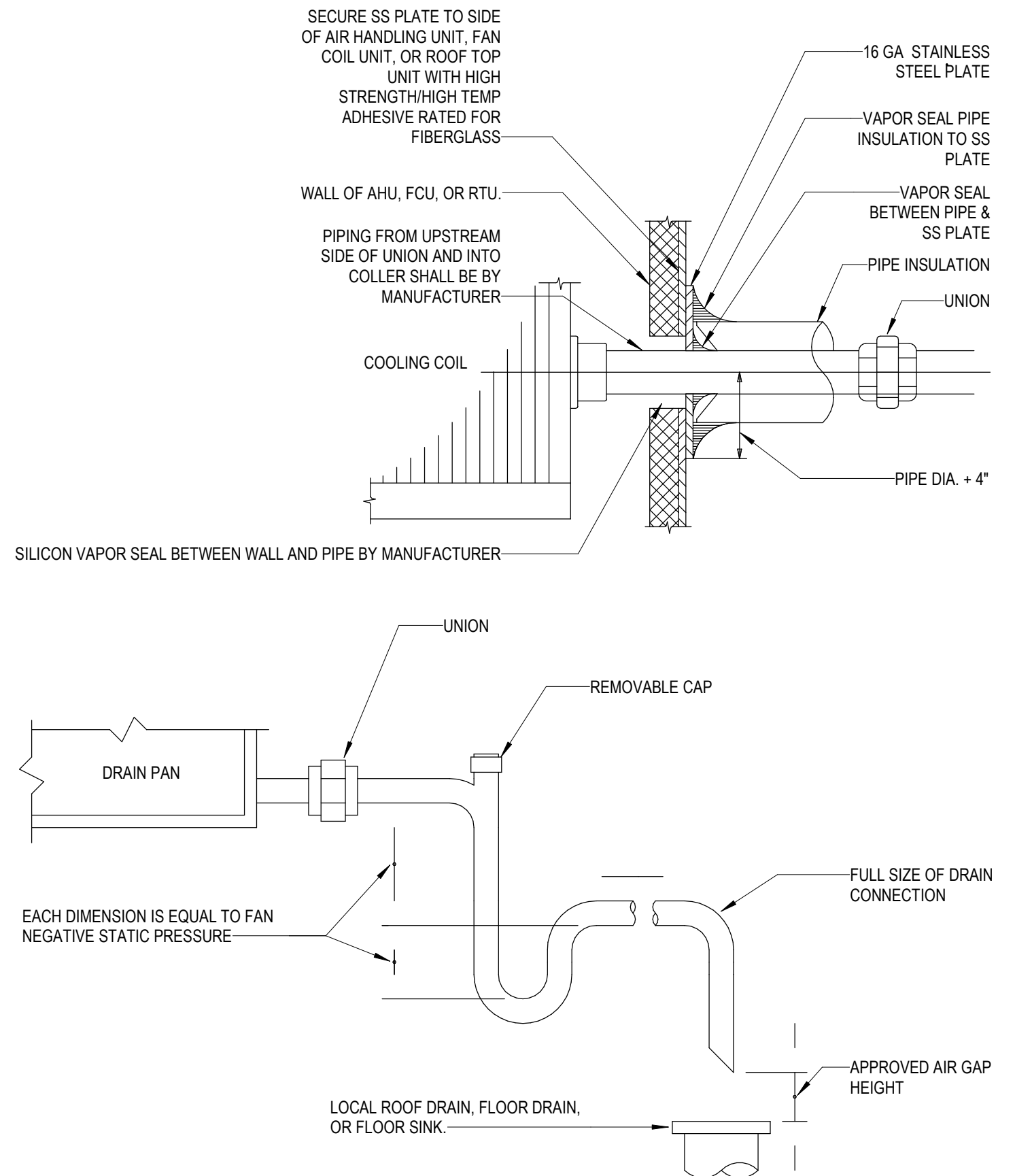
NOTES:
1. SUBMIT TO MANUFACTURER TO CONFIRM PIPE SIZES PRIOR TO PURCHASE.



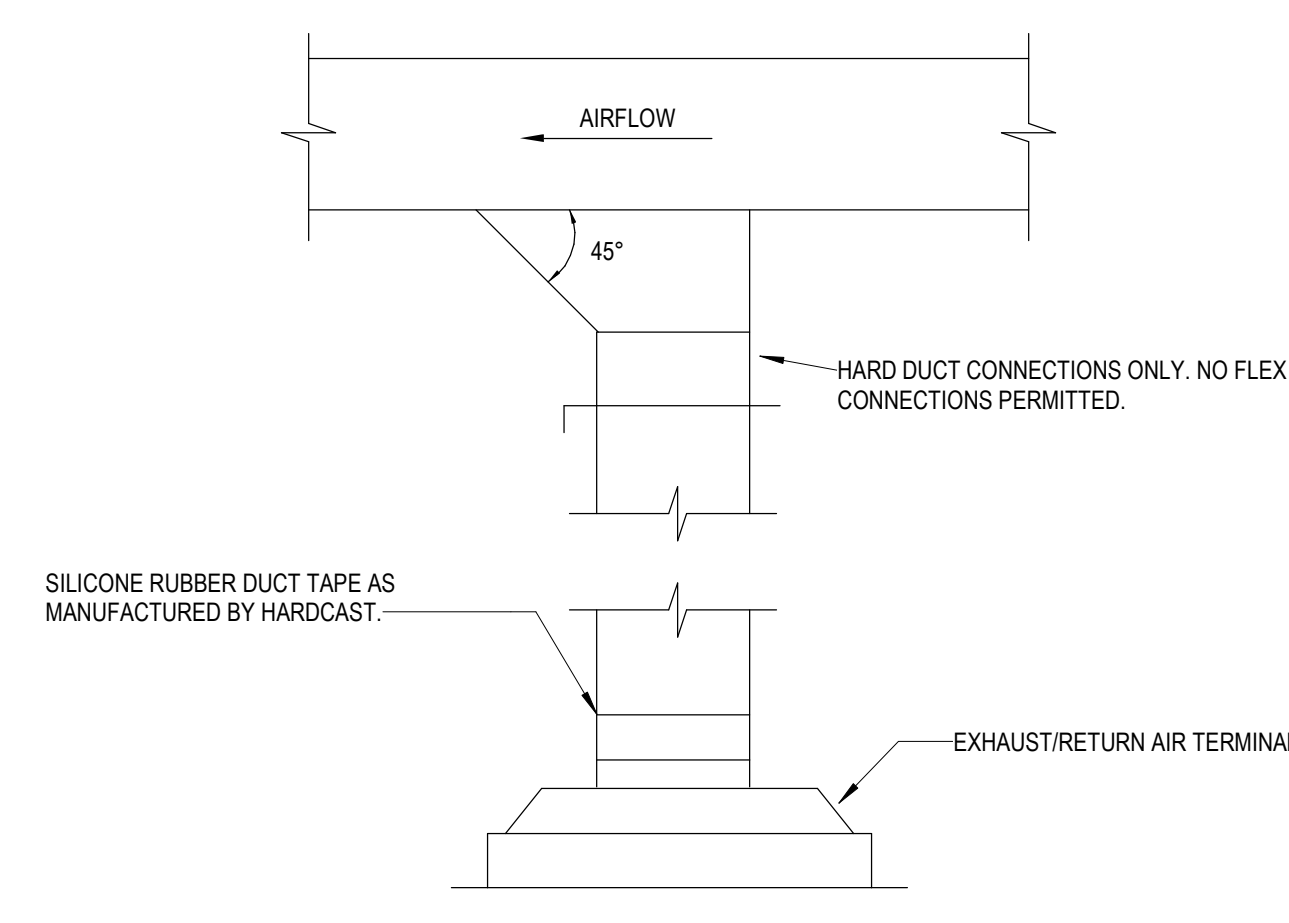
5 HORIZONTAL FAN COIL UNIT W/ CONDENSATE PUMP DETAIL
NOT TO SCALE



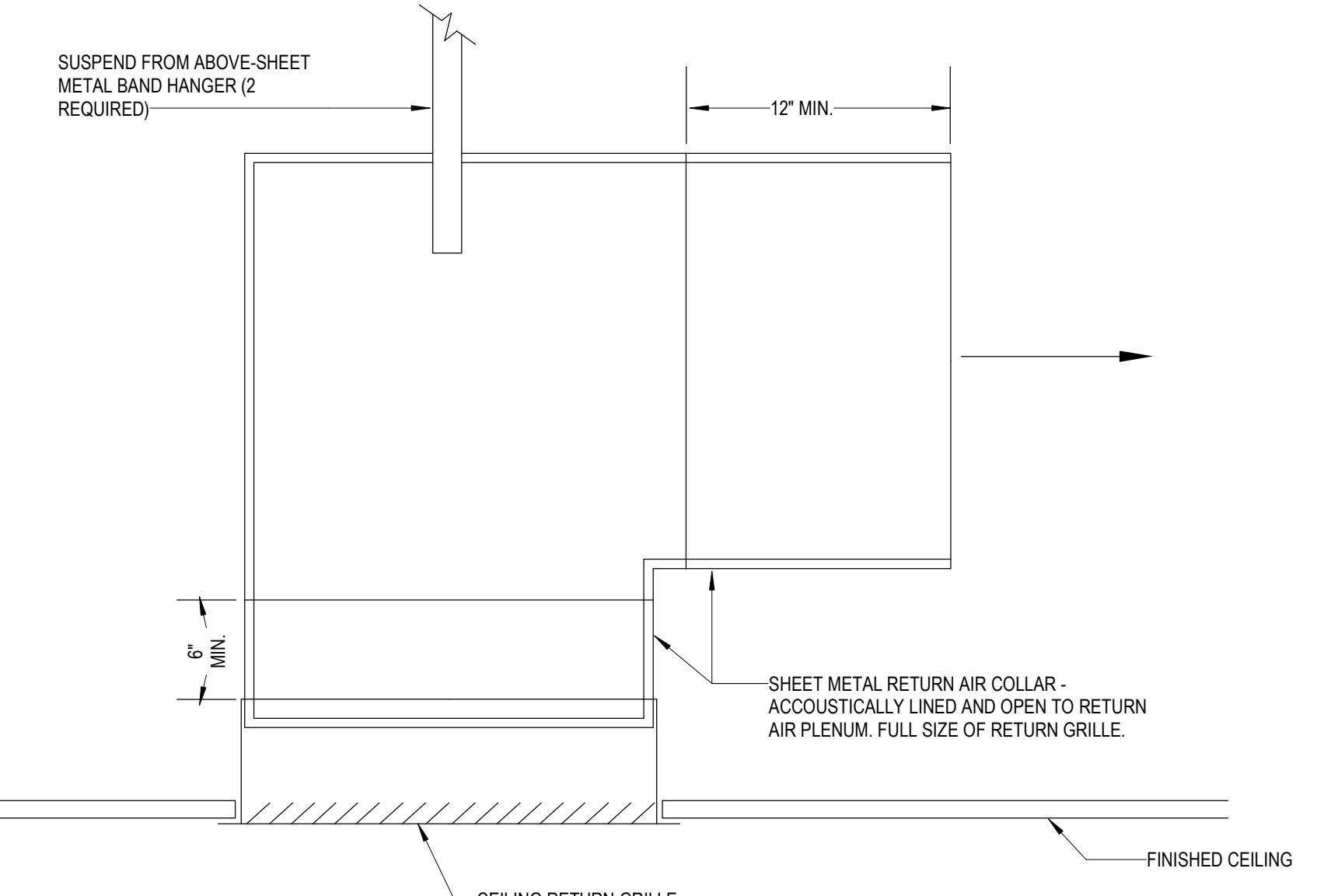
4 SPECIALTY DX SPLIT SYSTEM (DOWNFLOW) W/ HOT GAS REHEAT
NOT TO SCALE



3 CONDENSATE DRAIN DETAIL
NOT TO SCALE

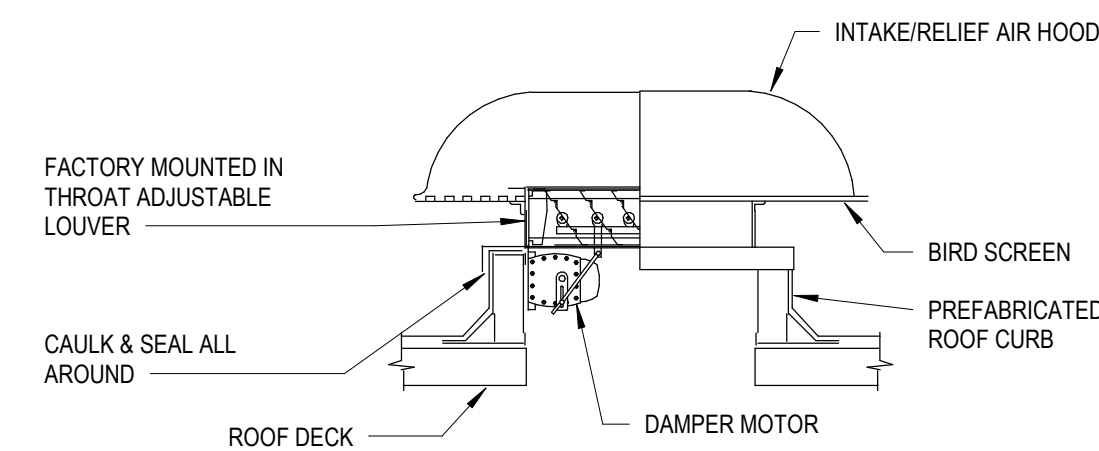


2 EXHAUST/RETURN DUCT BRANCH TAKE-OFF DETAIL
NOT TO SCALE

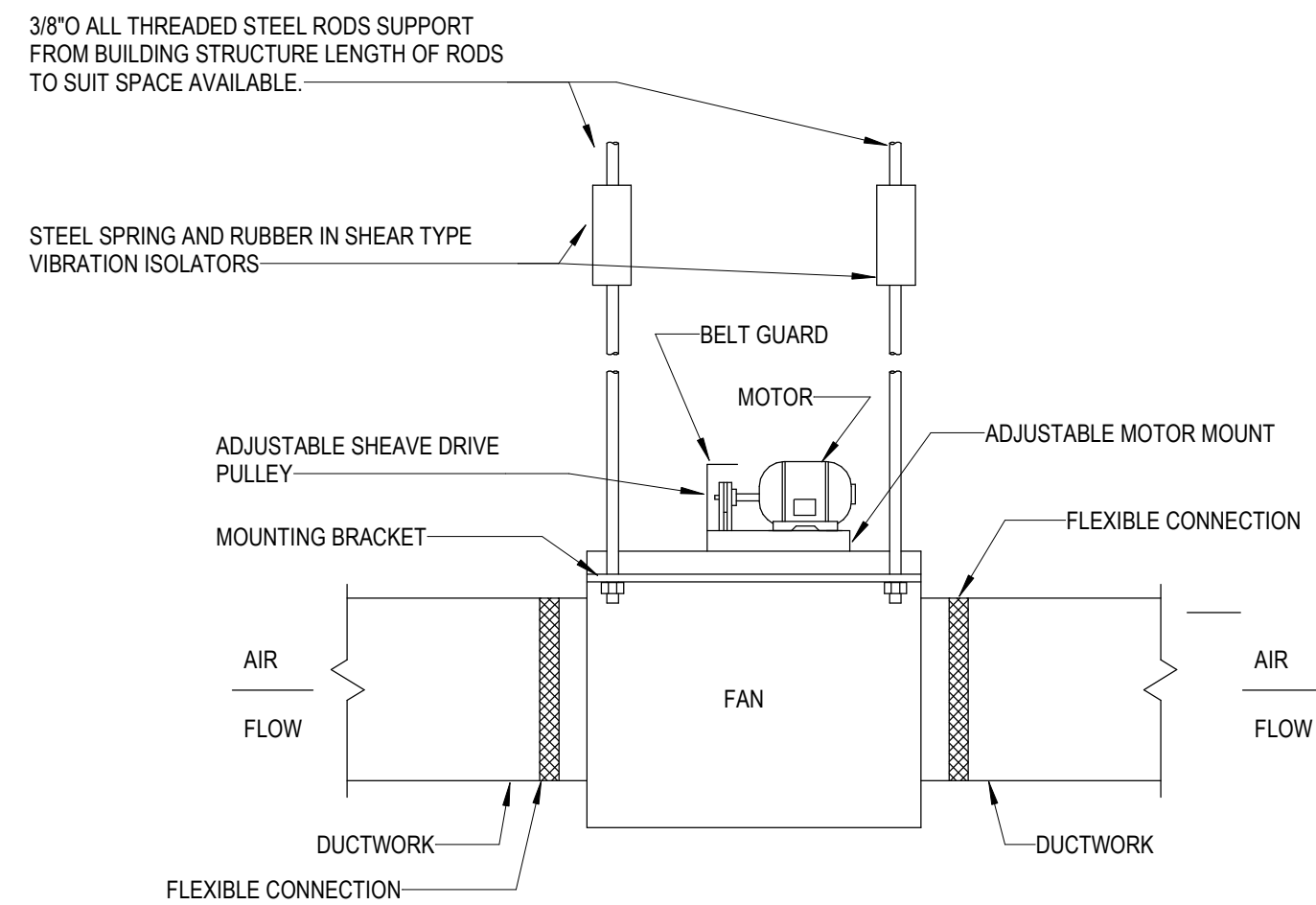


1 RETURN AIR TRANSFER DUCT (GRILLE AND COLLAR) DETAIL
NOT TO SCALE

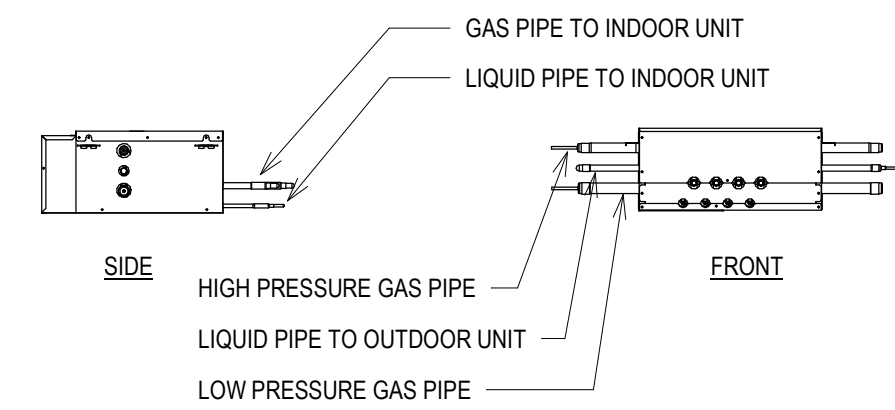
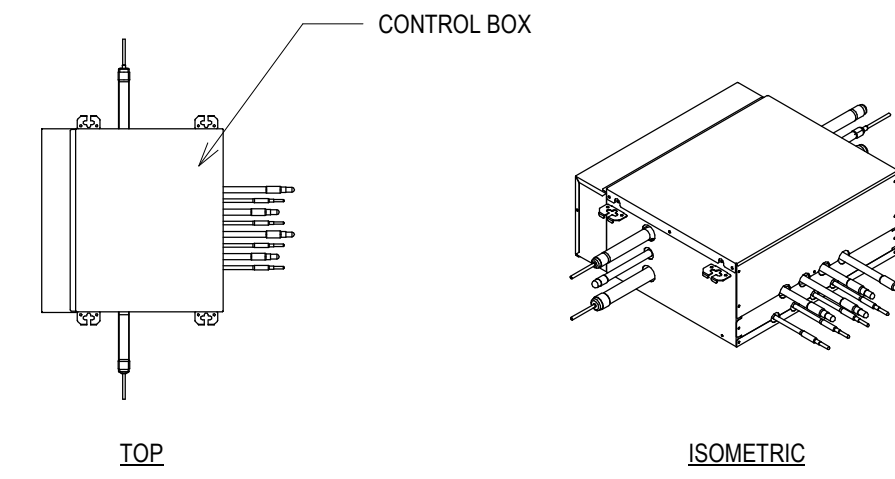
Date	Description
10-15-24	IFP
10-25-24	Rev 1 Permit Set



3 GRAVITY VENTILATOR WITH MOTORIZED LOUVER DETAIL
NOT TO SCALE



2 CENTRIFUGAL IN-LINE FAN DETAIL
NOT TO SCALE



NOTES:

1. UNIT SHOULD BE INSTALLED IN COMPLIANCE WITH THE INSTALLATION MANUAL IN THE PRODUCT BOX.
2. UNIT SHOULD BE GROUNDED IN ACCORDANCE WITH THE LOCAL REGULATIONS OR APPLICABLE NATIONAL CODES.
3. ALL ELECTRICAL COMPONENTS AND MATERIALS TO BE SUPPLIED FROM THE SITE MUST COMPLY WITH THE LOCAL REGULATIONS AND INTERNATIONAL CODES.

1 VRF HEAT RECOVERY BOX DETAIL
NOT TO SCALE

FEEDER SCHEDULE (COPPER)		
FEEDER TAG		FEEDER SIZE
15.3, 20.3	3#12, #10G, 3/4"C	
15.4, 20.4	4#12, #10G, 3/4"C	
30.3	3#10, #10G, 3/4"C	
30.4	4#10, #10G, 3/4"C	
40.3	3#8, #10G, 3/4"C	
40.4	4#8, #10G, 3/4"C	
50.3	3#6, #10G, 3/4"C	
50.4	4#6, #10G, 1"C	
60.3	3#4, #10G, 1"C	
60.4	4#4, #10G, 1-1/4"C	
70.3	3#4, #8G, 1"C	
70.4	4#4, #8G, 1-1/2"C	
80.3	3#3, #8G, 1-1/4"C	
80.4	4#3, #8G, 1-1/4"C	
90.3	3#2, #8G, 1-1/4"C	
90.4	4#2, #8G, 1-1/4"C	
100.3	3#1, #8G, 1-1/4"C	
100.4	4#1, #8G, 1-1/2"C	
110.3	3#1, #8G, 1-1/4"C	
110.4	4#1, #8G, 1-1/2"C	
125.3, 150.3	3#10, #6G, 1-1/2"C	
125.4, 150.4	4#10, #6G, 2"C	
175.3	3#20, #6G, 2"C	
175.4	4#20, #6G, 2"C	
200.3	3#30, #6G, 2"C	
200.4	4#30, #6G, 2"C	
225.3	3#40, #4G, 2"C	
225.4	4#40, #4G, 2-1/2"C	
250.3	3#250, #4G, 2-1/2"C	
250.4	4#250, #4G, 2-1/2"C	
300.3	3#350, #4G, 2-1/2"C	
300.4	4#350, #4G, 3"C	
350.3	3#500, #3G, 3"C	
350.4	4#500, #3G, 3-1/2"C	
400.3	2 SETS OF 3#30, #3G, 2"C	
400.4	2 SETS OF 4#30, #3G, 2-1/2"C	
500.3	2 SETS OF 3#250, #2G, 2-1/2"C	
500.4	2 SETS OF 4#250, #2G, 2-1/2"C	
600.3	2 SETS OF 3#350, #1G, 2-1/2"C	
600.4	2 SETS OF 4#350, #1G, 2-1/2"C	
700.3	2 SETS OF 3#10, #2G, 3"C	
700.4	2 SETS OF 4#500, #10G, 3-1/2"C	
800.3	2 SETS OF 3#600, #10G, 3-1/2"C	
800.4	2 SETS OF 4#600, #10G, 4"C	
1000.3	3 SETS OF 3#500, #20G, 3"C	
1000.4	3 SETS OF 4#500, #20G, 3"C	
1200.3	4 SETS OF 3#350, #30G, 3"C	
1200.4	4 SETS OF 4#350, #30G, 3-1/2"C	
1600.3	5 SETS OF 3#500, #40G, 3"C	
1600.4	5 SETS OF 4#500, #40G, 3"C	
2000.3	6 SETS OF 3#500, #40G, 3"C	
2000.4	6 SETS OF 4#500, #40G, 3"C	
2500.3	7 SETS OF 3#500, #40G, 3-1/2"C	
2500.4	7 SETS OF 4#500, #40G, 3-1/2"C	
3000.3	8 SETS OF 3#500, #40G, 3"C	
3000.4	8 SETS OF 4#500, #40G, 3-1/2"C	
3200.3	8 SETS OF 3#500, #40G, 4"C	
3200.4	8 SETS OF 4#600, #40G, 4"C	
4000.3	10 SETS OF 3#600, #40G, 4"C	
4000.4	10 SETS OF 4#600, #40G, 4"C	
NOTES:		
1. BASED ON 30C AMBIENT AND 75C CONDUCTORS. RESIZE FEEDER PER NEC		
FOR OTHER AMBIENT TEMPERATURES.		
2. ALL FEEDERS SHALL BE THHN/THWN-2 COPPER, UNLESS NOTED OTHERWISE.		
3. BRANCH CIRCUITS DO NOT ACCOUNT FOR VOLTAGE DROP.		
4. BASED ON 3 CURRENT CARRYING CONDUCTORS IN RACEWAY.		

BRANCH CIRCUIT WIRING SCHEDULE		
BREAKER		WIRE SIZE
AMPERAGE	POLE	
20A	1P	2#12, #12G, 3/4"C
20A	2P	3#12, #12G, 3/4"C
20A	3P	4#12, #12G, 3/4"C
30A	1P	2#10, #10G, 3/4"C
30A	2P	3#10, #10G, 3/4"C
30A	3P	4#10, #10G, 3/4"C
40A	1P	2#8, #10G, 3/4"C
40A	2P	3#8, #10G, 3/4"C
40A	3P	4#8, #10G, 1"C
50A	2P	3#6, #10G, 1"C
50A	3P	4#6, #10G, 1-1/2"C
60A	2P	3#6, #10G, 1"C
60A	3P	4#6, #10G, 1-1/2"C
70A	2P	3#4, #8G, 1-1/2"C
70A	3P	4#4, #8G, 1-1/2"C
80A	2P	3#4, #8G, 1-1/2"C
80A	3P	4#4, #8G, 1-1/2"C
100A	2P	3#3, #8G, 1-1/2"C
100A	3P	4#3, #8G, 1-1/2"C
NOTES:		
1. BASED ON 30C AMBIENT AND 75C CONDUCTORS. RESIZE FEEDER PER NEC FOR OTHER		
AMBIENT TEMPERATURES.		
2. ALL FEEDERS SHALL BE THHN/THWN-2 COPPER, UNLESS NOTED OTHERWISE.		
3. BRANCH CIRCUITS DO NOT ACCOUNT FOR VOLTAGE DROP.		
4. BASED ON 3 CURRENT CARRYING CONDUCTORS IN RACEWAY.		

ELECTRICAL LEGEND	
	MANUAL FIRE PULL STATION
	AREA SMOKE DETECTOR, CEILING MOUNTED
	AREA SMOKE DETECTOR, WALL MOUNTED
	SMOKE DETECTOR, MOUNTED IN DUCT
	HEAT DETECTOR, CEILING MOUNTED
	SPRINKLER WATER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	AUDIBLE FIRE ALARM STROBE, CEILING MOUNTED
	AUDIBLE FIRE ALARM STROBE, WALL MOUNTED
	AUDIOVISUAL FIRE ALARM STROBE, CEILING MOUNTED
	AUDIOVISUAL FIRE ALARM STROBE WALL MOUNTED
	VISUAL FIRE ALARM STROBE, CEILING MOUNTED
	VISUAL FIRE ALARM STROBE, WALL MOUNTED
	FIREMAN'S JACK
	FIRE ALARM BELL
	FIRE/SMOKE DAMPER
	SMOKE DAMPER
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR PANEL
	SIMPLEX RECEPTACLE, WALL MOUNTED
	DUPLEX RECEPTACLE, WALL MOUNTED
	DUPLEX RECEPTACLE, CEILING MOUNTED
	DUPLEX RECEPTACLE, TOP HALF SWITCHED
	QUADRUPLEX RECEPTACLE, WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED, COORDINATE NEMA PLUG TYPE WITH OWNER
	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER
	DUPLEX RECEPTACLE, ISOLATED GROUND
	DUPLEX RECEPTACLE, WEATHERPROOF
	COMBINATION POWER/TELECOM FLOOR BOX OR FIRE RATED POKE THRU DEVICE. REFER TO PLANS FOR SPECIFICATION
	TELECOM OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C WBUSHING AND PULLSTRING. STUBBED TO ACCESSIBLE CEILING.
	TELEVISION OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C WBUSHING AND PULLSTRING. STUBBED TO ACCESSIBLE CEILING.
	SINGLE POLE SWITCH
	DOUBLE POLE SWITCH
	THREE WAY SWITCH
	FOUR WAY SWITCH
	KEY LOCKED SWITCH
	MOMENTARY CONTACT SWITCH
	TIMER SWITCH
	WALL DIMMER
	LOW VOLTAGE SWITCH
	OCCUPANCY SENSOR SWITCH
	VACANCY SENSOR SWITCH
	PHOTOCELL
	VACANCY OR OCCUPANCY SENSOR SWITCH WATTSTOPPER DW-100 SERIES
	CEILING MOUNTED VACANCY OR OCCUPANCY SENSOR WATTSTOPPER DT-300 SERIES

ELECTRICAL LEGEND	
	SURFACE MOUNTED PANEL
	PANEL RECESSED IN WALL
	STEP DOWN TRANSFORMER
	GROUND BUS BAR
	HEAVY DUTY DISCONNECT SWITCH
	HEAVY DUTY FUSED DISCONNECT SWITCH
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
	VFD WITH DISCONNECT, COORDINATE WITH MECHANICAL CONTRACTOR
	EMERGENCY POWER OFF SWITCH
	MOTORIZED SHADE CONTROL
	THERMAL OVERLOAD SWITCH
	MOTOR CONNECTION, HP AS NOTED
	SINGLE PHASE MOTOR CONNECTION, HP AS NOTED
	JUNCTION BOX, CEILING MOUNTED
	JUNCTION BOX, WALL MOUNTED
	PULL BOX
	GROUND ROD
	GROUND WELL
	CIRCUIT BREAKER
	SWITCH AND FUSE
	ENCLOSED CIRCUIT BREAKER
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	NUMBERED NOTE
	EXIT SIGN, WALL MOUNTED
	EXIT SIGN, CEILING MOUNTED
	FIXED CLOSED CIRCUIT CAMERA
	MOTION SENSOR
	MAGNETIC LOCK
	KEYPAD
	DOOR RELEASE
	PUSH BUTTON
	CARD READER
	ELECTRIC LOCK
	ELECTRIC STRIKE
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT BELOW FLOOR OR IN SLAB
	CONDUIT STUBBED OUT AND CAPPED W/PULLSTRING
	CONDUIT HOMERUN BACK TO PANEL

ELECTRICAL ABBREVIATIONS	
(E)EXIST	EXISTING
(N) NEW	
(R)RELOC	EXISTING TO BE RELOCATED
A	AMPERES
AV	AUDIOVISUAL
AF	AMPERE FUSE RATING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AKC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CM	CEILING MOUNTED
CU	COPPER
DIA	DIAMETER
DPT	DOUBLE POLE DOUBLE THROW
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
EP	EXPLOSION PROOF
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FWE	FURNISHED WITH EQUIPMENT
GC	GENERAL CONTRACTOR
GFVIGFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
IG	ISOLATED GROUND
KVA	KILO-VOLT AMPERE
KW	KILO-WATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MOP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
NC	NORMALLY CLOSED
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PB	PULL BOX
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
SH	SHIELDED
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME CLOCK
TS	TIME SWITCH
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT
WP	WEATHERPROOF

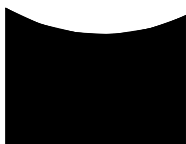
ELECTRICAL GENERAL NOTES	
1.	THE CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS IN THE DEMOLITION AREA PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE COST OF REPLACEMENT, REPAIR, RELOCATION OR REMOVAL OF EXISTING MEP ELEMENTS AS REQUIRED TO COMPLETE INSTALLATION OF ALL SYSTEMS AS SPECIFIED, AND AS SHOWN ON THESE DRAWINGS. THE CONTRACTOR, BY SUBMITTING THEIR PROPOSAL, AGREES TO ACCEPT ALL EXISTING SITE CONDITIONS NOT SPECIFICALLY EXCEPTED. RETURN REUSABLE ITEMS REMOVED FROM THE DEMOLITION AREA TO THE OWNERS STOCK. REUSE OF ANY EXISTING ITEM ON THIS PROJECT, INCLUDING THOSE INDICATED ON THE DRAWING TO BE RELOCATED, SHALL BE APPROVED BY THE ENGINEER AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. WHERE THESE DRAWINGS CONFLICT WITH EXISTING FIELD CONDITIONS, A RECORD OF THE FIELD CONDITIONS SHALL BE MADE AVAILABLE TO THE OWNER, ENGINEER, AND ARCHITECT.
2.	REMOVE ALL UNUSED CABLING, WIRE AND CONDUIT IN THIS SPACE. CONDUIT SHALL BE TAKEN BACK TO OUTSIDE ELECTRICAL ROOM INTO A J-BOX. LABEL UNUSED BREAKERS AS SPARE.
3.	ALL EXISTING CONDUITS, CONDUCTORS, AND EQUIPMENT SERVING HVAC SYSTEM TO BE DEMOLISHED SHALL BE REMOVED. THE CIRCUITS SHALL BE REMOVED BACK TO THE PANEL BOARD AND DE-ENERGIZED.
4.	EXISTING EQUIPMENT WHICH IS SHOWN AS EXISTING TO REMAIN ON THE DRAWINGS SHALL BE RENDERED FULLY FUNCTIONAL BY THE CONTRACTOR. RE-CIRCUIT AND REPLACE EXISTING DEVICES WHERE REQUIRED TO COMPLY WITH CONSTRUCTION DOCUMENTS. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT THE RESULTANT LOAD DUE TO THIS TENANT REVISION ON ANY GIVEN BRANCH CIRCUIT DOES NOT EXCEED 80% OF THE SERVING BREAKER AMPACITY RATING.
5.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE EXISTING FACILITIES CAUSED BY HIM AND HIS WORKMEN, AND SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING SUCH LOSS OR DAMAGE. THE CONTRACTOR SHALL SEND PROPER NOTICES, MAKE NECESSARY ARRANGEMENTS, AND PERFORM OTHER SERVICES REQUIRED FOR THE CARE, PROTECTION AND IN-SERVICE MAINTENANCE OF ALL ELECTRICAL SERVICES FOR THE EXISTING FACILITIES. THE CONTRACTOR SHALL ERECT TEMPORARY BARRICADES, WITH NECESSARY SAFETY DEVICES, AS REQUIRED TO PROTECT PERSONNEL AND THE GENERAL PUBLIC FROM INJURY. REMOVING ALL SUCH TEMPORARY PROTECTION UPON COMPLETION OF THE WORK.
6.	THE CONTRACTOR SHALL MODIFY, REMOVE AND/OR REPLACE ALL MATERIALS AND ITEMS SO INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW FACILITIES. SALVAGE MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO SUCH DESTINATION AS DIRECTED BY THE OWNER. DISPOSE OF SALVAGE MATERIAL IF NOT RETAINED BY OWNER.
7.	WHERE EXISTING CONSTRUCTION IS REMOVED TO PROVIDE WORKING AND EXTENSION ACCESS TO EXISTING FACILITIES, CONTRACTOR SHALL REMOVE CEILING GRIDS, TILES, DOORS, PIPING, AIR CONDITIONING DUCTWORK AND EQUIPMENT, ETC., TO PROVIDE THIS ACCESS AND SHALL REINSTALL SAME UPON COMPLETION OF WORK IN THE AREAS AFFECTED.
8.	CONTRACTOR SHALL REMOVE ALL OWNER STANDARD LIGHTS INDICATED TO BE REMOVED AND RETURN TO OWNER STOCK AS DIRECTED BY OWNER. CONTRACTOR SHALL TAKE CARE SO AS NOT TO DAMAGE LIGHTS DURING REMOVAL AND STORAGE.
9.	WORK IN OCCUPIED AREAS: WORK IN, ABOVE, BELOW OR NEAR OCCUPIED AREAS SHALL BE AT OWNERS CONVENIENCE AND MAY BE DURING EVENINGS OR WEEKENDS. SCHEDULE ALL REQUIRED POWER OUTAGES A MINIMUM OF 7 DAYS IN ADVANCE WITH BUILDING OWNER.
10.	ELECTRICAL SERVICE OUTAGE: SERVICE TO THE EXISTING BUILDING SHALL BE MAINTAINED DURING NORMAL WORKING HOURS. ANY SERVICE OUTAGE REQUIRED TO COMPLETE THE WORK SHALL BE THE TIME AND FOR THE LENGTH OF TIME AS DIRECTED BY THE OWNER. NOTIFY OWNER MINIMUM OF 48 HOURS PRIOR TO SHUTDOWN. ALL PREMIUM TIME SHALL BE INCLUDED IN CONTRACTORS BID.
11.	FIRE PROTECTION CONTRACTOR SHALL MODIFY ALL EXISTING FIRE PROTECTION AND SPRINKLER PIPES AS REQUIRED TO MEET THE MAINTENANCE AND REMOVAL CLEARANCES OF ALL EXISTING MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT.
12.	CONTRACTOR TO PROVIDE ALLOWANCE FOR ANY LOW VOLTAGE CABLING ABOVE INACCESSIBLE OR SPECIALTY CEILING TO BE INSTALLED IN CONDUIT.

ELECTRICAL SHEET LIST	
SHEET NUMBER	SHEET NAME
E0.01	ELECTRICAL COVER SHEET
E0.02	ELECTRICAL SPECIFICATIONS
E0.50	ELECTRICAL SITE PLAN
E2.01	POWER PLAN
E2.02	POWER MECHANICAL PLAN
E3.01	LIGHTING PLAN
E7.00	PANEL SCHEDULES & RISER

CODE SUMMARY	
A.	APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO:
1.	CITY OF LEANDER NATIONAL ELECTRICAL CODE (2014 NEC) WITH LOCAL AMENDMENTS
2.	CITY OF LEANDER INTERNATIONAL BUILDING CODE 2015
3.	CITY OF LEANDER INTERNATIONAL BUILDING CODE 2021, TABLES 1004.1.2 AND 1004.5 FROM SECTION 2002.2
4.	LIFE SAFETY CODE (NFPA 101)
5.	TEXAS ACCESSIBILITY STANDARDS, AMERICANS WITH DISABILITIES ACT, ENERGY CONSERVATION CODE, IECC 2015.
6.	REFER TO BUILDING OWNER FOR ANY STANDARDS ABOVE CODE REQUIREMENT.



10/25/2024



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Vilia Ridge and Bagdad Rd
Leander, TX 78641

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ELECTRICAL COVER SHEET

Project Number: 230502
Nvzision Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration Nos. TX P.E. Firm F-12229, TX C.E. 9413 M;
1301069591, NV 8262, NC 14863, OH ARC 1817885

Date	Description	Rev	Permit Set
10/15/24	FP		
10/25/24			



TBPE Registration Number: 18865
5316 Hwy. 290 Service Rd., Suite 2-250
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LIGHT FIXTURE SCHEDULE.									
DESIGNATION	FIXTURE DESCRIPTION	MOUNTING	MANUFACTURER	MODEL NUMBER	POLE	LAMP TYPE	DIMMING TYPE	VOLTAGE	WATTAGE
S1	TYPE 4 DISTRIBUTION	POLE	GARDCO	OPF-M-A09-740-T4W-UNV-FINISH-CONTROLS	SSS-XX-FINISH-XX	LED	0-10V	UNV	93 VA
S2-2	TYPE 3 DISTRIBUTION	POLE	GARDCO	OPF-M-A09-740-T3M-UNV-FINISH-CONTROLS	SSS-XX-FINISH-XX	LED	0-10V	UNV	93 VA
S3	TYPE BLC DISTRIBUTION	POLE	GARDCO	OPF-M-A09-740-BLC-UNV-FINISH-CONTROLS	SSS-XX-FINISH-XX	LED	0-10V	UNV	93 VA
SL	STEP LIGHT	RECESSED	GARDCO	GARDCO - 941L-21L-WW-06-FINISH	-	LED	-	UNV	21 VA

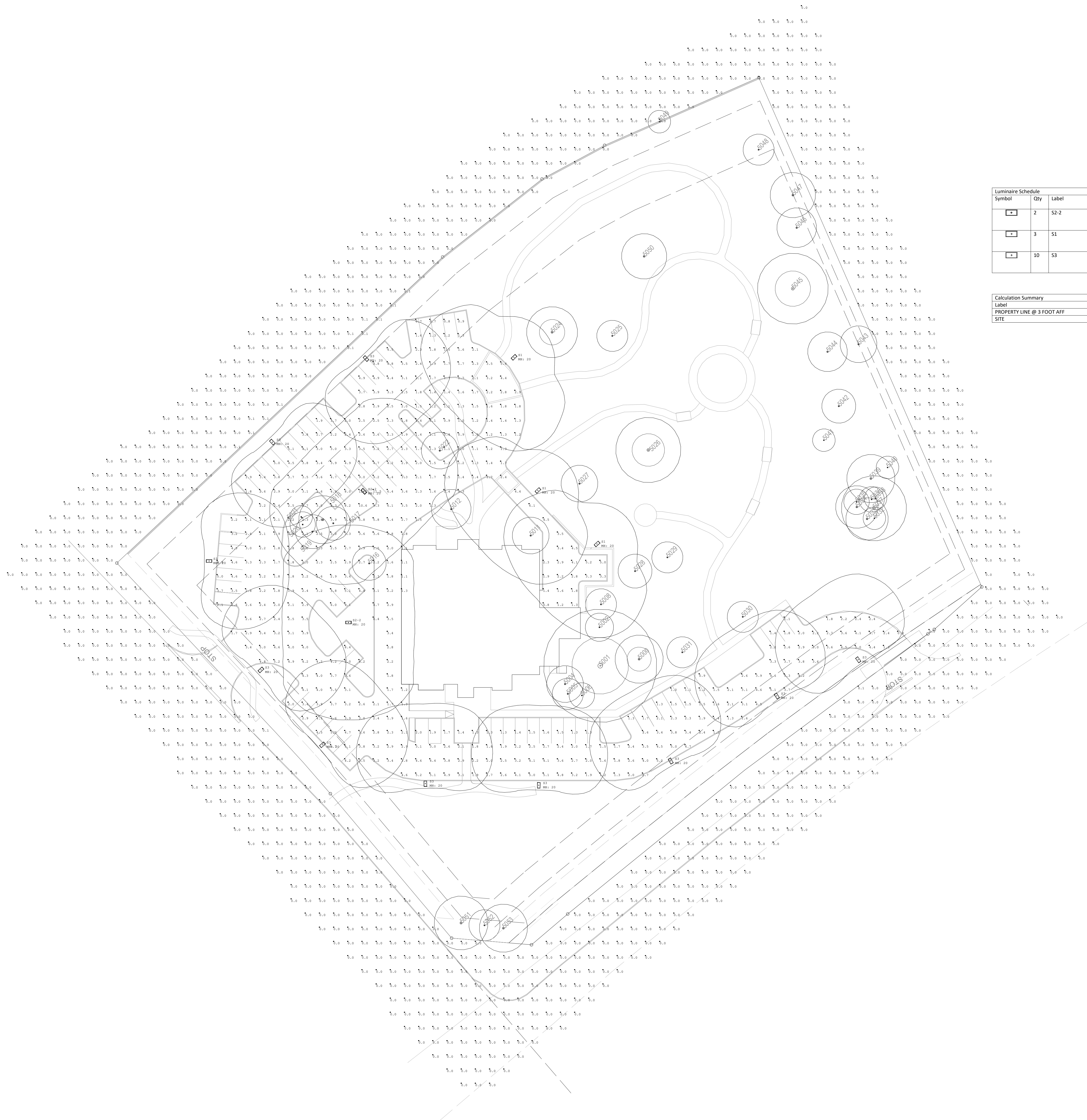
KEYNOTES	
KEYNOTE	DESCRIPTION
1	STEP LIGHT TO BE CONTROLLED BY DAY LIGHT SENSORS
3	ELECTRICAL PANELBOARD L3 (FOR FUTURE CEMETERY LIGHT/POWER) SHALL BE MOUNTED ON RETAIN WALL

GENERAL NOTES	
A	ELECTRICAL UNDERGROUND SERVICE CONDUCTORS SHALL BE INSTALLED IN ACCORDANCE WITH NEC 2014 SECTION 300.5(D)(3)
B	ALL EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL AND TIMER. PHOTOCELL SHALL BE MOUNTED AT 6" ABOVE ROOF LINE AND FACING NORTH. TIMER SHALL BE MOUNTED ON WALL ADJACENT TO ELECTRICAL PANELBOARD L1



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

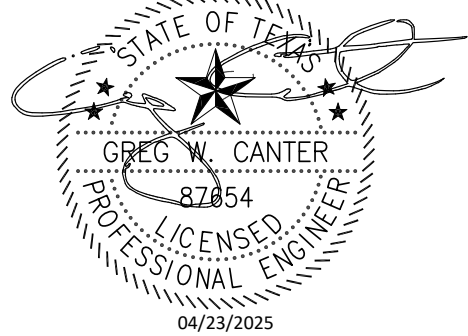
Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set
01/31/25	CITY COMMENTS



Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	2	S2-2	Back-Back	SIGNIFY GARDCO - OPF-M-A09-740-T3M-UNV-FINISH-CONTROLS POLE: SSS-XX-FINISH-XX	TYPE 3 DISTRIBUTION	0.930	16947	92.84	371.36
	3	S1	Single	SIGNIFY GARDCO - OPF-M-A09-740-T4W-UNV-FINISH-CONTROLS POLE: SSS-XX-FINISH-XX	TYPE 4 DISTRIBUTION	0.930	16353	92.84	278.52
	10	S3	Single	SIGNIFY GARDCO - OPF-M-A09-740-BLC-UNV-FINISH-CONTROLS POLE: SSS-XX-FINISH-XX	TYPE BLC DISTRIBUTION	0.930	11911	92.84	928.4

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PROPERTY LINE @ 3 FOOT AFF	Illuminance	Fc	0.00	0.1	0.0	N.A.	N.A.
SITE	Illuminance	Fc	2.91	12.1	0.7	4.16	17.29

1 LIGHTING PHOTOMETRICS PLAN
1" = 30'-0"



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ELECTRICAL SITE PHOTOMETRICS PLAN

Project Number: 230502
N-vizion Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
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Registration Nos. TX PE Firm F-2229, TX 25498, LA 9413 MI,
1301065991, NV 8292, NC 14883, OH: ARC-1817885

Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set
04/23/25	CITY COMMENTS

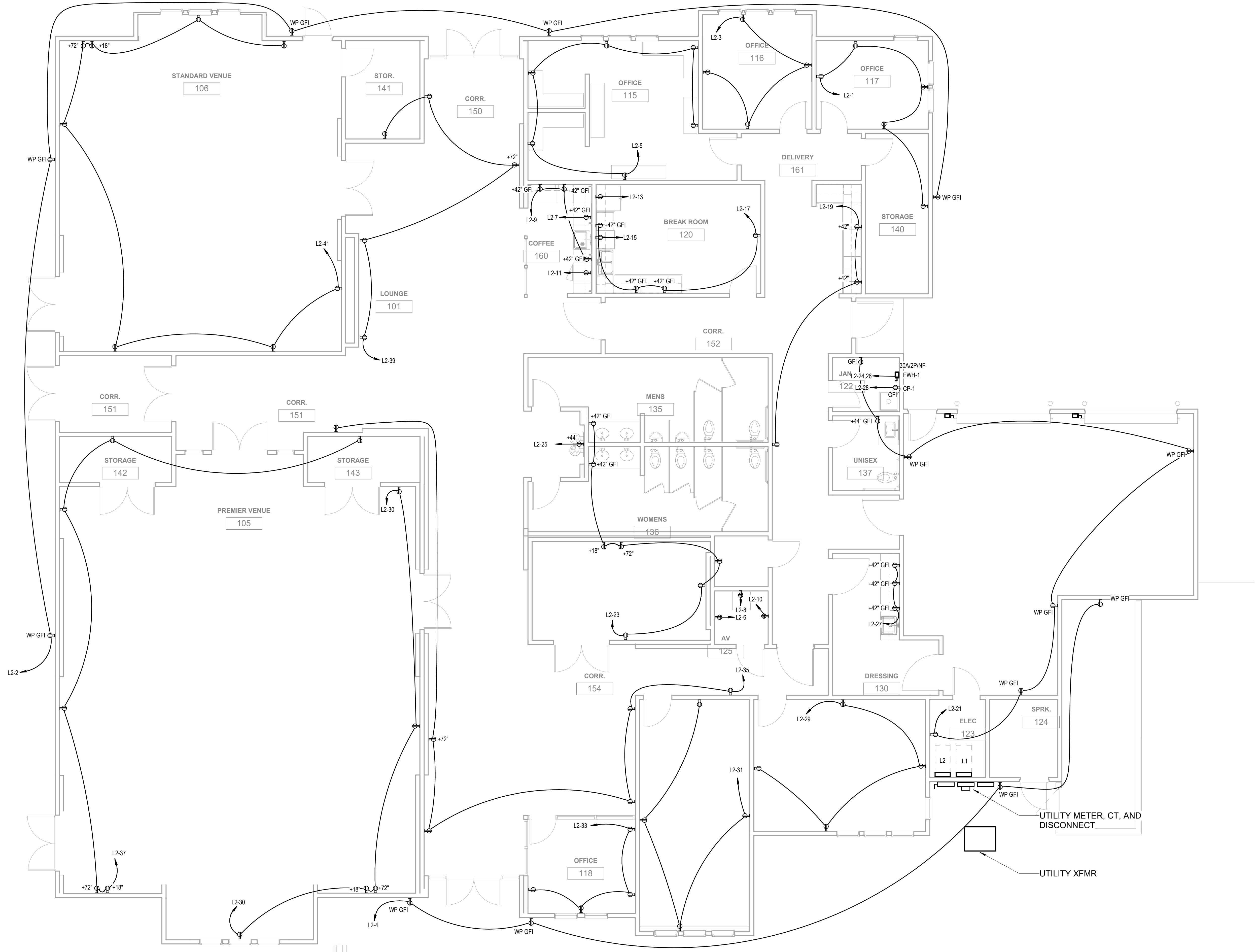


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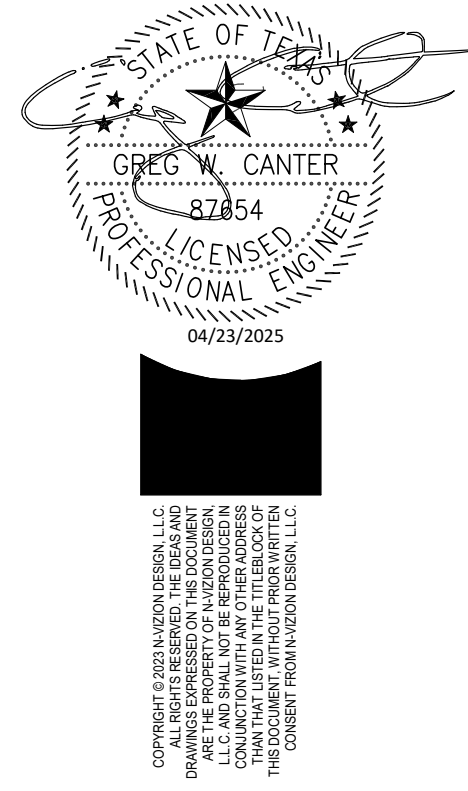
E1.00

FIRE ALARM NOTES	
A	FIRE ALARM SYSTEM DESIGN (DEVICES AND LAYOUT) ARE UNDER SEPARATE PERMIT BY THE FIRE ALARM CONTRACTOR.
B	FIRE ALARM SYSTEM CONSTRUCTION DOCUMENTS FOR THE SCOPE OF WORK INDICATED IN THIS PROJECT SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO COMMENCING FIRE ALARM WORK AND THE INSTALLATION MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION AFTER COMPLETION.
C	THE FIRE ALARM SYSTEM MODIFICATIONS FOR THIS PROJECT SHALL BE DESIGNED BY A LICENSED FIRE ALARM CONTRACTOR AND BE IN ACCORDANCE WITH NFPA 72 & 101 AND THE LOCAL AUTHORITY HAVING JURISDICTION BUILDING CODE. CONTRACTOR IS RESPONSIBLE FOR SUBMISSION OF PL.
D	ALL 120V CIRCUITS REQUIRED FOR THE OPERATION OF THE FIRE ALARM SYSTEM SHALL BE INCLUDED. LOCATIONS OF ALL PANELS AND BOOSTERS SHALL BE COORDINATED WITH ARCHITECT. CONTRACTOR SHALL TEST THE SYSTEM IN THE PRESENCE OF LOCAL AUTHORITIES AND MAKE ALL REQUIRED MODIFICATIONS AND ADDITIONS TO THE DESIGN AT NO ADDITIONAL COST.

GENERAL NOTES	
A	ELECTRICAL UNDERGROUND SERVICE CONDUCTORS SHALL BE INSTALLED IN ACCORDANCE WITH NEC 2014 SECTION 300.5(D)(3).
B	ALL EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL AND TIMER. PHOTOCELL SHALL BE MOUNTED AT 6" ABOVE ROOF LINE AND FACING NORTH. TIMER SHALL BE MOUNTED ON WALL ADJACENT TO ELECTRICAL PANELBOARD L1.
C	CONTRACTOR SHALL TRACE EXISTING CIRCUITS FOR ALL PANELS IN SCOPE AND REUSE THOSE THAT ARE NOT CURRENTLY BEING USED OR BECOME AVAILABLE DUE TO DEMO. CIRCUIT NUMBERS SHOWN ARE DIAGRAMMATIC AND MAY NEED TO BE MODIFIED FOR FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE ALL WORK WITH BUILDING ENGINEER AND MAY NEED TO SCHEDULE WORK AFTER HOURS. CONTRACTOR SHALL CHECK ALL PANELS FOR ELECTRICAL LOAD. IF SUFFICIENT NUMBER OF CIRCUITS CANNOT BE LOCATED AND REUSED, ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
D	ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B) (1) THROUGH (B) (12) SHALL HAVE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL 210.8(B)(2) KITCHENS OR AREAS WITH A SINK AND PROVIDE MINIMUM OF 36-INCH HORIZONTAL AND 72-INCH VERTICAL CLEARANCE AROUND ALL ELECTRICAL PANELS.



1 POWER PLAN
3/16" = 1'-0" TRUE NORTH



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POWER PLAN

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Date	Description
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10/25/24	Rev 1 Permit Set
04/23/25	CTTY COMMENTS



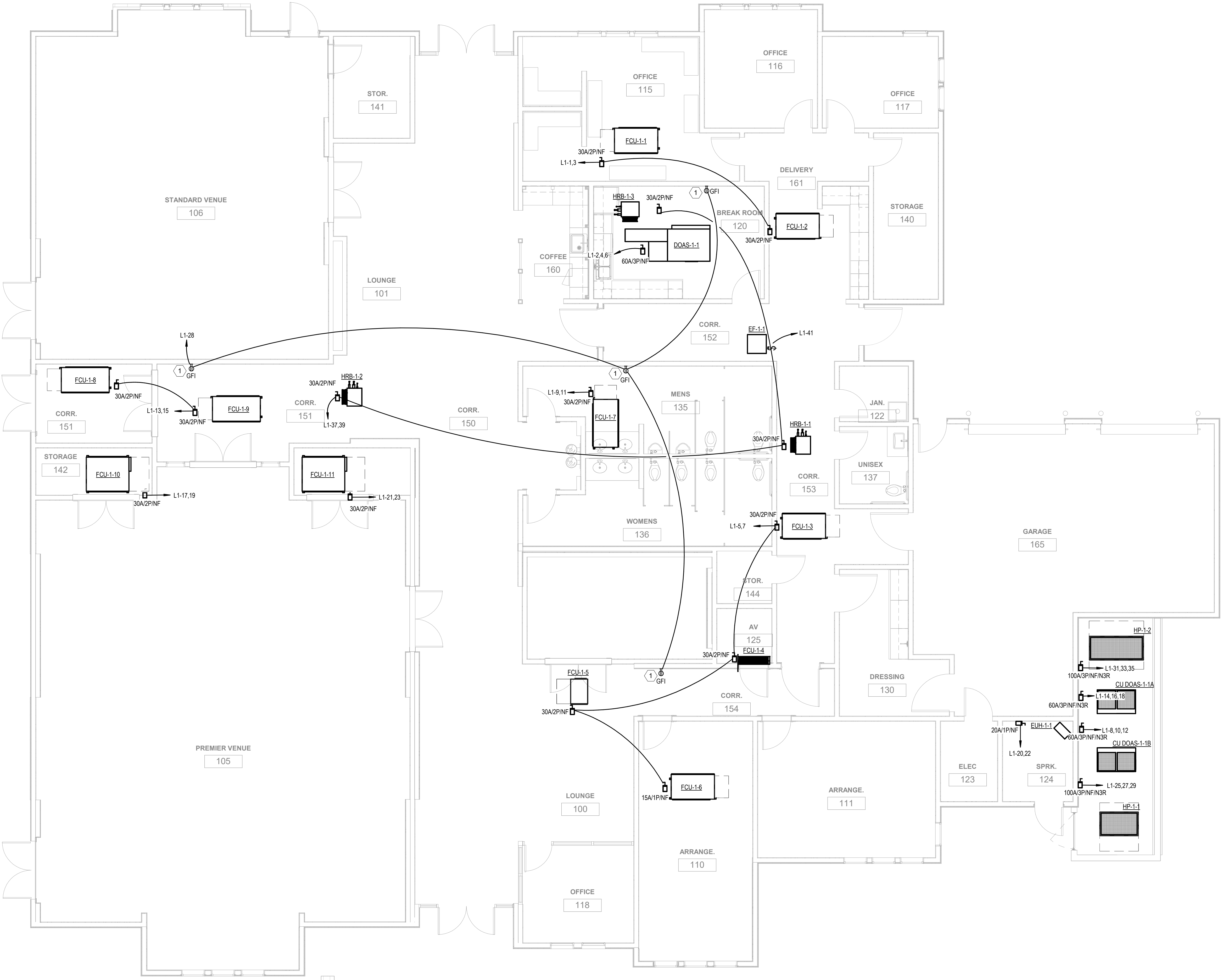
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FIRE ALARM NOTES	
A	FIRE ALARM SYSTEM DESIGN (DEVICES AND LAYOUT) ARE UNDER SEPARATE PERMIT BY THE FIRE ALARM CONTRACTOR.
B	FIRE ALARM SYSTEM CONSTRUCTION DOCUMENTS FOR THE SCOPE OF WORK INDICATED IN THIS PROJECT SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO COMMENCING FIRE ALARM WORK AND THE INSTALLATION MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION AFTER COMPLETION.
C	THE FIRE ALARM SYSTEM MODIFICATIONS FOR THIS PROJECT SHALL BE DESIGNED BY A LICENSED FIRE ALARM CONTRACTOR AND BE IN ACCORDANCE WITH NFPA 72 & 101 AND THE LOCAL AUTHORITY HAVING JURISDICTION BUILDING CODE. CONTRACTOR IS RESPONSIBLE FOR SUBMISSION OF PL.
D	ALL 120V CIRCUITS REQUIRED FOR THE OPERATION OF THE FIRE ALARM SYSTEM SHALL BE INCLUDED. LOCATIONS OF ALL PANELS AND BOOSTERS SHALL BE COORDINATED WITH ARCHITECT. CONTRACTOR SHALL TEST THE SYSTEM IN THE PRESENCE OF LOCAL AUTHORITIES AND MAKE ALL REQUIRED MODIFICATIONS AND ADDITIONS TO THE DESIGN AT NO ADDITIONAL COST.

GENERAL NOTES	
A	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES. REFER TO IT REPRESENTATIVE FOR EXACT LOCATION OF IT DEVICES. REFER TO AV DRAWINGS FOR A DETAILED LAYOUT OF CONDUIT AND CABLE FOR AV DEVICES.
B	PROVIDE RECESSED CLOCK TYPE BOX FOR ALL WALL MOUNTED TV POWER AND AV DEVICES.
C	CONTRACTOR SHALL TRACE EXISTING CIRCUITS FOR ALL PANELS IN SCOPE AND REUSE THOSE THAT ARE NOT CURRENTLY BEING USED OR BECOME AVAILABLE DUE TO DEMO. CIRCUIT NUMBERS SHOWN ARE DIAGRAMMATIC AND MAY NEED TO BE MODIFIED FOR FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE ALL WORK WITH BUILDING ENGINEER AND MAY NEED TO SCHEDULE WORK AFTER HOURS. CONTRACTOR SHALL CHECK ALL PANELS FOR ELECTRICAL LOAD. IF SUFFICIENT NUMBER OF CIRCUITS CANNOT BE LOCATED AND REUSED, ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
D	ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B) (1) THROUGH (B) (12) SHALL HAVE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. 210.8(B)(2) KITCHENS OR AREAS WITH A SINK AND PROVISIONS FOR EITHER FOOD PREPARATION OR COOKING.

KEYNOTES	
KEYNOTE	DESCRIPTION
1	PROVIDE GFI HVAC MAINTENANCE RECEPTACLE WITHIN 25FT OF EQUIPMENT. RECEPTACLE TO BE MOUNTED TO STRUCTURE.



1 POWER MECHANICAL PLAN
3/16" = 1'-0"
TRUE NORTH



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POWER MECHANICAL PLAN
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1301065591, NV 8252, NC 44853, OH ARC-1817885

Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set

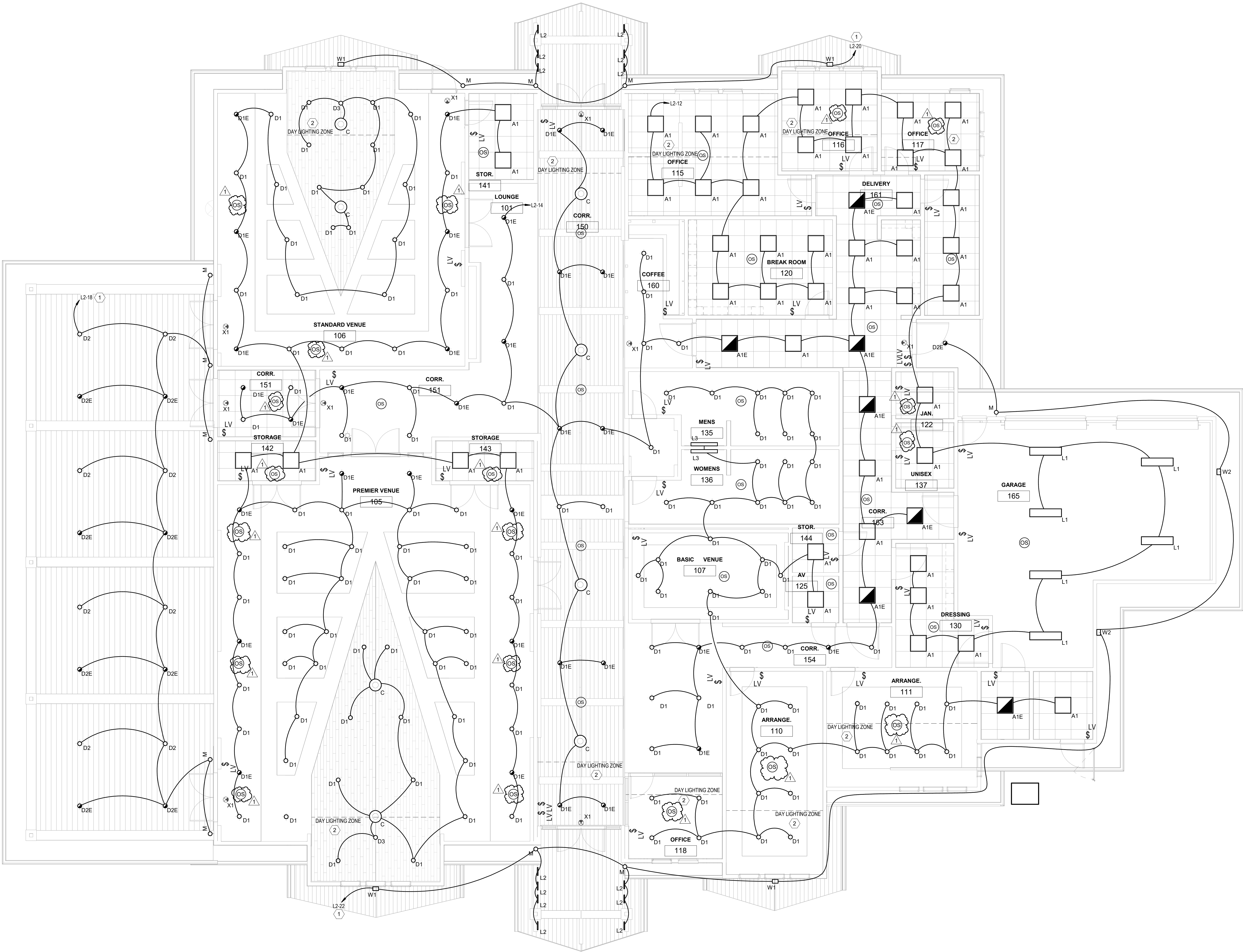
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E2.02

LIGHT FIXTURE SCHEDULE							
DESIGNATION	FIXTURE DESCRIPTION	MOUNTING	MANUFACTURER	MODEL NUMBER	LAMP TYPE	DIMMING TYPE	VOLTAGE
A1	2x2 TROFFER	RECESSED	SIGNIFY GARDCO	2FGX388840-2-UNV-DIM	LED	0-10V	UNV
A1E	2x2 TROFFER W/ EMERGENCY BATTERY PACK	RECESSED	SIGNIFY GARDCO	2FGX388840-2-UNV-DIM-EM	LED	0-10V	UNV
C	CHANDELIER	PENDANT	MODERN FORMS	PD-64621R-BK/AB-BK	LED	0-10V	UNV
D1	6" RECESSED CAN	RECESSED	ELITE	HH6-LED-2000L-DIM10-MVOLT-WD-40K-90-HH6-6501-CL-WH	LED	0-10V	UNV
D1E	6" RECESSED CAN W/ EMERGENCY BATTERY PACK	RECESSED	ELITE	HH6-LED-2000L-DIM10-MVOLT-WD-40K-90-HH6-6501-CL-WH-EM	LED	0-10V	UNV
D2	6" RECESSED CAN - WET LISTED	RECESSED	ELITE	HH6-LED-2000L-DIM10-MVOLT-WD-40K-90-HH6-6501-CL-WH	LED	0-10V	UNV
D2E	6" RECESSED CAN - WET LISTED - W/ EMERGENCY BATTERY PACK	RECESSED	ELITE	HH6-LED-2000L-DIM10-MVOLT-WD-40K-90-HH6-6501-CL-WH-EM	LED	0-10V	UNV
D3	6" RECESSED COLORED FIXTURE	RECESSED	METOR	R56-50-306C-W-RGB-XX-XX-WD-X	LED	0-10V	UNV
L1	4FT SURFACE MOUNTED LINEARS	SURFACE MOUNTED	SIGNIFY DAYWHITE	FSS-4-5L-840-UNV-DIM	LED	0-10V	UNV
L2	BEAM MOUNTED UPLIGHT LINEAR - BLACK HOUSING - ERT TO MAKE SUGGESTION	SURFACE SIDE BEAM	PAL LIGHTING	ACC-HO-CCT-4-L-CH-UNV	LED	0-10V	UNV
L3	3FT VANITY FIXTURE	SUSPENDED	MODERN FORMS	PD-68146-BN	LED	0-10V	UNV
M	UP AND DOWN LIGHT SCENCE - MATTE BLACK	WALL MOUNT	SIGNIFY	C35GQVUD109D2W210U8	LED	0-10V	UNV
W1	SOFT UPLIGHT - ERT TO MAKE SUGGESTION BLACK HOUSING	WALL MOUNT	SIGNIFY GARDCO	121-16L-1200-NW-G4-4	LED	0-10V	UNV
W2	MECHANICAL YARD WALL PACK BLACK HOUSING	WALL MOUNT	SIGNIFY GARDCO	121-16L-1200-NW-G4-4	LED	0-10V	UNV
X1	SUSPENDED EXIT SIGN	SURFACE	ELLP	EDG-TRC-A	LED	-	UNV

GENERAL NOTES	
A	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF FIXTURES.
B	FIXTURES WITH BATTERY PACK SHALL HAVE NORMAL BALLAST CONNECTED TO LIGHT SWITCH, AND BATTERY BALLAST CONNECTED TO UN-SWITCHED POWER. BATTERY BALLAST IS SWITCHED AT PANEL ONLY. REFER TO MANUFACTURER WIRING DIAGRAM FOR INSTALLATION WITH FIXTURE NORMAL BALLAST.
C	EXISTING FIXTURES INDICATED TO BE REUSED SHALL BE CLEANED AND RE-LAMPED. INSPECT EXISTING BALLASTS AND REPLACE IF NOISY OR NOT OPERATING. RETURN UNUSED FIXTURES TO OWNER OR DISPOSE IF NOT NEEDED BY OWNER.
D	EXIT SIGNS SHALL BE CONNECTED TO UN-SWITCHED POWER. EMERGENCY LIGHTS SHALL BE SWITCHED AT PANEL ONLY.
E	GANG ALL LIGHT SWITCHES TOGETHER WHERE POSSIBLE.
F	CONTRACTOR TO PROVIDE TESTING AND COMMISSIONING OF THE LIGHTING CONTROL SYSTEMS IN SCOPE IN ACCORDANCE WITH JURISDICTION ADOPTED IECC SECTION C408. CONTRACTOR SHALL INCLUDE IN BID THE SERVICES OF A REGISTERED DESIGN PROFESSIONAL TO PRODUCE A COMMISSIONING PLAN TO CONFIRM TESTING AND CALIBRATION HAVE BEEN PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. COPIES OF ALL DOCUMENTATION SHALL BE GIVEN TO THE OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY AND MADE AVAILABLE TO CODE OFFICIAL UPON REQUEST IN ACCORDANCE WITH SECTIONS C408.3.1.1 AND C408.3.1.2.

KEYNOTES	
KEYNOTE	DESCRIPTION
1	ALL EXTERIOR LIGHTING TO BE ROUTED THRU LIGHTING CONTROL PANEL.
2	TOTAL WATTS OF GENERAL LIGHTING WITHIN THIS SIDELIGHT DAYLIGHT ZONE IS LESS THAN 150 WATTS. THERE IS NO DAYLIGHT RESPONSIVE CONTROLS IS REQUIRED FOR GENERAL LIGHTS WITHIN THIS DAY LIGHT ZONE.



1 LIGHTING CEILING PLAN
3/16" = 1'-0"



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LIGHTING PLAN

Project Number: 230502
Nvizion Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration No. TX PE Firm F-2229, TX 25498, LA, 9413 MI,
1301065991, NV, 8292, NC, 14883, OH, ARC-1817885

Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set
01/31/25	CDT COMMENTS

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E3.01

PANEL: L1					LOCATION: ELEC 123			VOLTS: 120/208 Wye			A.I.C. RATING: 35000			INFINITY MEP CONSULTANTS							
SUPPLY FROM:					PHASES: 3			MAINS TYPE: MCB			BUS RATING: 600 A										
MOUNTING: Surface					WIRES: 4						MAIN RATING: 600 A										
ENCLOSURE: Type 1																					
NOTES:																					
NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES									
	1	FCU-1-1 / FCU-1-2	15 A	2	624 VA / 2046 VA								2								
	3					624 VA / 2046 VA		3	30 A	DOAS-1-1	4		4								
	5						771 VA / 2046 VA				6		6								
	7	FCU-1-3FCU-1-4FCU-1-5FCU-1-6	15 A	2	771 VA / 4587 VA						8		8								
	9					375 VA / 4587 VA		3	45 A	CU-DOAS-1-1B	10		10								
	11	FCU-1-7	15 A	2			375 VA / 4587 VA				12		12								
	13										14		14								
	15	FCU-1-8FCU-1-9	15 A	2	749 VA / 4587 VA	749 VA / 4587 VA		3	45 A	CU-DOAS-1-1A	16		16								
	17										18		18								
	19	FCU-1-10	15 A	2	936 VA / 2500 VA		936 VA / 4587 VA				20		20								
	21					936 VA / 2500 VA		2	20 A	EJH-1-1	22		22								
	23						936 VA / 743 VA		1	20 A	OUTDOOR LIGHTING	24		24							
	25							1	20 A	OUTDOOR LIGHTING	26		26								
	27	HP-1-1	60 A	3	6667 VA / 650 VA	6667 VA / 720 VA		1	20 A	HWAC EQUIP RECEPT	28		28								
	29						6667 VA / 105 VA	1	20 A	STEP LIGHT	30		30								
	31							1	20 A	STEP LIGHT	32		32								
	33	HP-1-2	60 A	3	7220 VA / 70 VA	7220 VA / 0 VA		1	20 A	SPARE	34		34								
	35						7220 VA / 0 VA	1	20 A	SPARE	36		36								
	37					255 VA / 0 VA		1	20 A	SPARE	38		38								
	39	HRB-1-1/1-2/1-3	15 A	2		255 VA / 0 VA		1	20 A	SPARE	40		40								
	41	EF-1	20 A	1			1000 VA / 0 VA	1	20 A	SPARE	42		42								
	43					10275 VA / 0 VA		1	20 A	SPARE	44		44								
	45	L2	100 A	3		9360 VA / 0 VA		1	20 A	SPARE	46		46								
	47						13205 VA / 0 VA	1	20 A	SPARE	48		48								
	49					0 VA / 0 VA		1	20 A	SPARE	50		50								
	51	L3	100 A	3		0 VA / 0 VA		1	20 A	SPARE	52		52								
	53					0 VA / 0 VA	0 VA / 0 VA	1	20 A	SPARE	54		54								
	55	SPARE	20 A	1				1	20 A	SPARE	56		56								
	57	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	58		58								
	59	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	60		60								
TOTAL LOAD:					41935 VA	40624 VA	43175 VA														
TOTAL AMPS:					351 A	339 A	351 A														
LOAD CLASSIFICATION														CONNECTED LOAD		DEMAND FACTOR		NEC DEMAND LOAD		PANEL TOTALS	
HVAC														90607 VA		100.00%		90607 VA		TOTAL CONNECTED LOAD: 125735 VA	
INDOOR LIGHTING														7275 VA		125.00%		9084 VA		TOTAL NEC DEMAND LOAD: 121922 VA	
MISC. NON-CONTINUOUS														4500 VA		100.00%		4500 VA		TOTAL CONNECTED: 349 A	
OUTDOOR LIGHTING														1393 VA		125.00%		1741 VA		TOTAL NEC DEMAND: 338 A	
RECEPTACLES														21960 VA		72.77%		15980 VA			

PLUMBING ABBREVIATIONS	
(E)	EXISTING
(N)	NEW
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
C	CONDENSATE DRAIN
CO	CLEANOUT
CW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DN	DOWN
DR	DRAIN
ELEV	ELEVATION
ET	EXPANSION TANK
EW	EYE WASH
EWV	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FP	FIRE PUMP
FS	FLOOR SINK
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
IE	INVERT ELEVATION
IW	INDIRECT WASTE
JP	JOCKEY PUMP
L	LAVATORY
MSB	MOP SINK BASIN
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OFD	OVERFLOW DRAIN
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
S	SINK
SAN	SANITARY WASTE
SH	SHOWER
SOI	SAND-OIL INTERCEPTOR
SP	SUMP PUMP
ST	STORM PIPING
TD	TRENCH DRAIN
TMV	TEMPERATURE MIXING VALVE
TP	TRAP PRIMER
UR	URINAL
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR

PLUMBING LEGEND	
	COMPRESSED AIR PIPING
	CONDENSATE DRAIN PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RETURN PIPING
	NATURAL GAS PIPING
	OVERFLOW STORM PIPING
	SANITARY (ABOVE FLOOR)
	SANITARY (BELOW FLOOR)
	SPRINKLER PIPING
	STORM DRAIN PIPING
	VENT PIPING
	PIPING TO BE DEMOLISHED
	CLEANOUT/PLUG
	PIPE DOWN
	PIPE UP
	PIPE CAP
	CHANGE IN PIPE ELEVATION
	INSULATED AND HEAT TRACED PIPING
	ACCESS PANEL FOR TRAP PRIMER
	DOUBLE CHECK VALVE ASSEMBLY
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
	BOTTOM PIPE CONNECTION
	CLEANOUT (TWO-WAY) (PROVIDE CONCRETE PAD OUTSIDE 18" X 24" X 4")
	FLOOR CLEANOUT/GRADE CLEANOUT
	P-TRAP
	TOP PIPE CONNECTION
	VALVE IN VERTICAL
	WALL HYDRANT
	ANGLE RELIEF VALVE
	AUTOMATIC AIR VENT
	AUTOMATIC CONTROL VALVE
	AUTOMATIC CONTROL VALVE (3-WAY)
	BUTTERFLY VALVE MANUAL
	BALL VALVE
	CALIBRATED BALANCING VALVE
	CHECK VALVE
	CHECK VALVE WITH A.B.D.
	FLEXIBLE CONNECTION
	GAS COCK VALVE
	GLOBE VALVE
	OS&Y (OUTSIDE SCREW & YOKE) VALVE
	PRESSURE REDUCING VALVE
	PRESSURE GAUGE AND COCK
	RELIEF SAFETY VALVE
	SOLENOID VALVE
	THERMOMETER
	TEMPERATURE MIXING VALVE
	WATER HAMMER ARRESTOR
	VACUUM BREAKER
	VALVE WITH TAMPER SWITCH
	Y-STRAINER WITH BLOW OFF VALVE
	HOSE BIBB
	METER
	PUMP
	FLOW METER
	VENTURI METER
	POINT OF CONNECTION (NEW TO EXISTING)
	EQUIPMENT DESIGNATION

PLUMBING GENERAL NOTES	
1	ALL SYSTEMS WILL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL STANDARDS.
2	NO PVC PIPING SHALL BE INSTALLED IN A RETURN AIR PLENUM.
3	CONTRACTOR SHALL PROVIDE A FULLY FUNCTIONAL, CODE COMPLIANT SYSTEM.
4	CONTRACTOR SHALL TEST ALL SYSTEMS FOR FUNCTIONALITY BOTH BEFORE WORK IS STARTED AND ALSO AFTER CONTRACTED WORK IS FINISHED. REPORT ANY ISSUES TO THE ENGINEER AND TO THE BUILDING MANAGER.
5	CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO FAMILIARIZE THEMSELVES WITH THE PROJECT BEFORE BIDDING. ALL ISSUES SHALL BE TAKEN INTO ACCOUNT WITH THEIR BID. CONTRACTOR AGREES TO ACCEPT ALL EXISTING CONDITIONS AS PART OF THEIR BID.
6	INFORMATION ON THE DRAWINGS IS DIAGRAMMATIC IN NATURE. NOT ALL OFFSETS ARE SHOWN FOR CLARITY PURPOSES. CONTRACTOR TO PROVIDE ALL OFFSETS AND FITTINGS TO MAKE A FULLY FUNCTIONAL SYSTEM.
7	EXISTING SYSTEMS MAY NOT MATCH WHAT IS SHOWN ON THE DRAWINGS. CONTRACTOR TO ADJUST CONSTRUCTION AS REQUIRED TO COMPLETE WORK.
8	CONTRACTOR SHALL PROTECT ALL EXISTING BUILDING STRUCTURES, FLOORING, PIPING, FIXTURES, ETC. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THEY CAUSE TO THE SITE. PLUMBING FIXTURES OR PIPING, ETC.
9	ALL REMOVED FIXTURES OR EQUIPMENT SHALL BE RETURNED TO OWNERS STOCK OR DISPOSED OF PER OWNER'S DISCRETION.
10	COORDINATE ALL WORK WITH BUILDING OWNERS OPERATING SCHEDULE.
11	ALL SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION AS REQUIRED BY BUILDING OWNER.
12	WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL PIPING ENCLOSED IN WALLS AND CAP BACK AT RISER OR AS APPROPRIATE FOR OTHER CONNECTIONS.
13	EXISTING FLOOR DRAINS OR FLOOR SINKS THAT ARE NOT REQUIRED SHALL BE REMOVED AND PIPING CAPPED BACK AT RISER OR AS REQUIRED TO MAKE NEW CONNECTION.
14	UNUSED FLOOR DRAINS OR FLOOR SINKS ON THE GROUND FLOOR SHALL BE PERMANENTLY PLUGGED AND MODIFIED TO ALLOW INSTALLATION OF NEW FLOORING MATERIAL.
15	PROVIDE ANY AND ALL DEMOLITION WORK REQUIRED TO INSTALL NEW EQUIPMENT. RETURN SURROUNDING AREA TO ORIGINAL CONDITION AFTER INSTALLATION IS COMPLETE. MAINTAIN PLUMBING SYSTEMS IN ADJACENT SPACES.
16	CONTRACTOR TO COORDINATE ALL PLUMBING FIXTURE COMPATIBILITY WHEN MATCHING FIXTURES, FLUSH VALVES, FAUCETS, DRAINS, ETC.
17	CONTRACTOR TO VERIFY ARCHITECTURAL REQUIREMENTS AND COORDINATION WITH SPECIFIED PLUMBING FIXTURES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECTS AND ENGINEERS ATTENTION.
18	CONTRACTOR SHALL PROVIDE ALL MATERIAL, EQUIPMENT, ACCESSORIES, AND LABOR REQUIRED FOR INSTALLATION OF A COMPLETE AND OPERABLE SYSTEMS.
19	CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING AND EQUIPMENT LOCATIONS WITH OTHER TRADES AND EXISTING CONDITIONS. CONTRACTOR SHALL MODIFY EXISTING DESIGN CONDITIONS AS REQUIRED TO PROVIDE A FUNCTIONAL, CODE COMPLIANT INSTALLATION.
20	CONTRACTOR TO COORDINATE ALL WORK WITH ARCHITECTS AND ENGINEERS PHASING PLANS. MAKE ALL NECESSARY ALLOCATIONS TO ACCOMMODATE PHASING AND PHASED CONSTRUCTION.
21	INSTALL ALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN ALL REQUIRED CLEARANCES FOR MAINTENANCE AND ACCESS.
22	ALL PLUMBING FIXTURES SHALL MEET TASADA REQUIREMENTS. FIXTURES SHALL BE INSTALLED TO MEET TASADA HEIGHT AND CLEARANCE REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWING DIMENSIONS.
23	ROUTE ALL PIPING AS HIGH AS POSSIBLE AND TIGHT TO STRUCTURE. INSTALL PERPENDICULAR TO WALLS AND COLUMNS.
24	ALL EQUIPMENT SHALL BE INSTALLED ON 4" CONCRETE HOUSEKEEPING PADS.
25	PROVIDE DIELECTRIC FITTINGS OR UNIONS BETWEEN PIPING OF DISSIMILAR METALS.
26	PROVIDE ACCESS PANELS AS REQUIRED TO SERVICE ALL VALVES AND EQUIPMENT. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECTURAL CEILING AND WALL ELEVATION DRAWINGS.
27	DO NOT ROUTE PIPING THROUGH ELECTRICAL ROOMS/CLOSETS OR IT/DATA ROOMS. IF THE CONSTRUCTION SITUATION MAKES THIS UNAVOIDABLE, PROVIDE SECONDARY LEAK PROTECTION SLOPED DRAIN PAN UNDER PIPE. ROUTE DRAIN PAN LINE TO NEAREST FLOOR DRAIN OR SINK TAIL PIECE.
28	PROVIDE SHUT-OFF VALVES ON ALL PLUMBING BRANCH PIPING, EQUIPMENT, TOILET ROOM GROUPS, AND INDIVIDUAL FLOORS.
29	SLOPE PIPING AS REQUIRED TO MEET CODE REQUIREMENTS, AVOID LOW POINTS, AND ESTABLISH HIGH POINTS FOR AIR REMOVAL.
30	COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURE. COORDINATE ALL VENT TERMINATIONS WITH BUILDING AIR INTAKES TO MAINTAIN CODE REQUIRED MINIMUM DISTANCES.
31	PROVIDE BACKFLOW PREVENTERS AS REQUIRED BY CODE AND APPLICABLE STANDARDS.
32	PROVIDE TRAP GUARD ON ALL FLOOR DRAINS, AIR DRAINS AND FLOOR SINKS OR OTHER APPROVED TRAP SEALING DEVICE.
33	ALL WORK SHALL BE COMPLETED TO THE APPROVAL OF THE BUILDING ENGINEER.
34	CONTRACTOR TO ACCOMMODATE ALL CLEARANCE AND DIMENSIONAL DIFFERENCES OF EQUIPMENT ACTUALLY PURCHASED FOR INSTALLATION.
35	CONTRACTOR SHALL X-RAY SLAB AS REQUIRED TO VERIFY EXACT LOCATION OF EXISTING PIPING IN SLAB.
36	FIRE PROTECTION CONTRACTOR SHALL MODIFY ALL EXISTING FIRE PROTECTION AND SPRINKLER PIPES AS REQUIRED TO MEET THE MAINTENANCE AND REMOVAL CLEARANCES OF ALL EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT.

AUTOMATIC SPRINKLER NOTES	
1	COMPLY WITH ALL NFPA CHAPTERS. EXACT NUMBERS OF HEADS REQUIRED SHALL BE AS DETERMINED BY THE CONTRACTOR. HOWEVER, SPECIFIC GUIDELINES AS REQUIRED BY OWNER, AND AS SPECIFIED PER SECTION IN THE SPECIFICATIONS SHALL BE MET.
2	CONTRACTOR SHALL REWORK EXISTING SPRINKLER HEADS AND PIPING IN REMODELED AREA. SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 AND LOCAL CODES AND REQUIREMENTS. CONTRACTOR SHALL MATCH EXISTING PIPING MATERIALS AND SPRINKLER HEADS.
3	EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN OPERATIONAL THROUGHOUT DURATION OF THE PROJECT.
4	DESIGN OF THE SPRINKLER SYSTEM SHALL BE UNDER THE DIRECT SUPERVISION OF A FIRE PROTECTION ENGINEER LICENSED IN THE STATE OF TEXAS. ALL DESIGN SUBMITTAL DOCUMENTS SHALL BEAR THE ENGINEER'S SIGNED AND DATED REGISTRATION NUMBER.
5	THE SYSTEM SHALL BE INSTALLED BY A FIRM HAVING A MINIMUM OF 5 YEARS EXPERIENCE REGULARLY ENGAGED IN THE DESIGN AND INSTALLATION OF AUTOMATIC FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH REQUIREMENTS OF NFPA AND THE STATE OF TEXAS FIRE MARSHAL'S OFFICE. EVIDENCE TO SUPPORT THE ABOVE REQUIREMENTS SHALL BE SUBMITTED WITH SHOP DRAWINGS TO THE A/E.
6	ALL REVISIONS TO THE STANDPIPE SYSTEM SHALL COMPLY WITH LOCAL AHJ, LATEST EDITION OF NFPA 14 AND OWNER'S INSURING GUIDELINES.
7	FURNISH, INSTALL, AND COMPLETE A 100% HYDRAULICALLY CALCULATED, AUTOMATIC WET PIPE SPRINKLER SYSTEM SERVING THE ENTIRE SPACE. THE SYSTEM SHALL BE INSTALLED TO MEET OWNERS INSURING GUIDELINES, LATEST ADOPTED EDITION OF NFPA 13, AND STATE AND LOCAL CODE REQUIREMENTS.
8	FIRE PROTECTION CONTRACTOR SHALL MODIFY ALL EXISTING FIRE PROTECTION AND SPRINKLER PIPES AS REQUIRED TO MEET THE MAINTENANCE AND REMOVAL CLEARANCES OF ALL EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT.

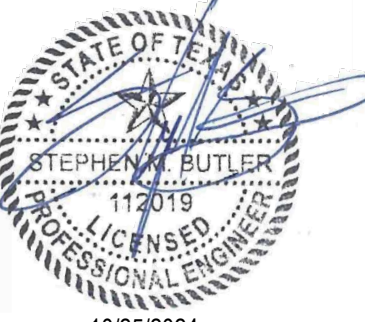
PLUMBING SHEET LIST		
SHEET NUMBER	SHEET NAME	
P0.01	PLUMBING COVER SHEET	
P0.02	PLUMBING SCHEDULES	
P0.03	PLUMBING SPECIFICATIONS	
P0.04	PLUMBING UNDERFLOOR PLAN	
P2.01	PLUMBING FLOOR PLAN	
P4.01	PLUMBING FLOOR PLAN	
P5.01	PLUMBING RISERS	
P5.02	PLUMBING RISERS	
P6.01	PLUMBING DETAILS	

SHOCK ARRESTOR SCHEDULE				
	MANUFACTURER & MODEL	FIXTURE UNITS	SIZE	MODEL NUMBER
(A)	PRECISION PLUMBING	1-11	1/2" NPT	SC-500
(B)	PRECISION PLUMBING	12-32	3/4" NPT	SC-750
(C)	PRECISION PLUMBING	33-60	1" NPT	SC-1000
(D)	PRECISION PLUMBING	61-113	1 1/4" NPT	SC-1250
(E)	PRECISION PLUMBING	114-154	1 1/2" NPT	SC-1500
(F)	PRECISION PLUMBING	155-330	2" NPT	SC-2000
NOTE: PROVIDE SHOCK ARRESTORS AT ENDS OF DCW AND DHW PIPING RUNS. AT ALL QUICK-CLOSING FIXTURES SUCH AS SHOWERS, FLUSH VALVES, SOLENOID VALVES, SINGLE-HANDED FAUCETS, AND SENSOR OPERATED FAUCETS, AND, FOR ALL GROUPS OF FIXTURES. SHOCK ARRESTORS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE LAST FIXTURE ON EACH PIPING RUN.				

SPRINKLER FLOW DENSITIES		
HAZARD	AREA (SF)	GPM/SF
LIGHT HAZARD	1500	0.10
ORDINARY HAZARD I	1500	0.15
ORDINARY HAZARD II	1500	0.20

PIPING MATERIAL SCHEDULE		
SYSTEM	BELOW GRADE	ABOVE GRADE
CHEMICAL WASTE PIPING	PVDF	PVDF
DOMESTIC COLD HOT WATER PIPING	TYPE "K" COPPER	TYPE "L" COPPER
NATURAL GAS PIPING	POLYETHYLENE	SCHEDULE 40 BLACK STEEL
SANITARY VENT PIPING	SCHEDULE 40 PVC	NO - HUB CAST IRON
STORM PIPING	SCHEDULE 40 PVC	NO - HUB CAST IRON

CODE SUMMARY	
A.	APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO: 1. CITY OF LEANDER MECHANICAL CODE: 2015 IMC 2. CITY OF LEANDER BUILDING CODE: 2015 IBC 3. CITY OF LEANDER BUILDING CODE: 2021 IBC, TABLES 1004.1.2 AND 1004.5 FROM SECTION 2802.2 4. CITY OF LEANDER COMMERCIAL ENERGY CONSERVATION CODE: 2015 IECC 5. CITY OF LEANDER PLUMBING CODE: 2015 IPC 6. CITY OF LEANDER PLUMBING CODE: 2021 IPC, SECTION 403.2



Weed Corley Fish
Vista Ridge and Bagdad Rd.
Leander, TX 78641

N-VIZION
FORMS - ENVIRONMENTS - IMAGES

PLUMBING COVER SHEET
Project Number: 230502
Nvzision Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration Nos. TX PE Firm F-12223, TX S4980, LA 9413 MI, 1301069591, NV 8262, NC 14863, OH ARC-1817885

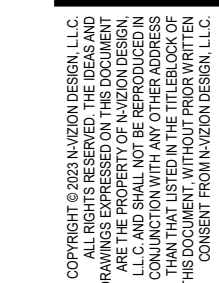
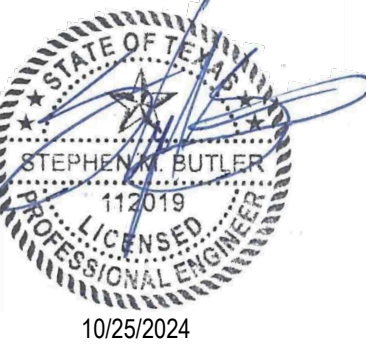
Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set

PUMP SCHEDULE																
TYPE	NUMBER	SERVICE	LOCATION	UNIT			GPM	HEAD (F.T.)	RPM	HP	ELECTRICAL DATA			OPERATIONAL WEIGHT (LBS.)	VARIABLE SPEED	NOTES
				MANUFACTURER	MODEL	TYPE					VOLTAGE	PHASE	HERTZ			
CP	1	HOT WATER	JAN	TACO	008-BC6	INLINE CIRC.	2	3.5	3250	1/25	120	1	60	8	NO	1
NOTES:																
1. TIME CLOCK - TORK MODEL EWZ120. TIME CLOCK SHALL BE PROVIDED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.																

ELECTRIC WATER HEATER SCHEDULE														
EQUIPMENT				UNIT TYPE					ELECTRICAL DATA					
TYPE	NUMBER	SERVICE	LOCATION	MANUFACTURER	MODEL	STORAGE GALLONS	RECOVERY GPH@100°F	TEMPERATURE SETTING (°F)	KW	VOLTAGE	PHASE	HZ	OPERATIONAL WEIGHT (LBS.)	NOTES
EVH	1	DOMESTIC HOT WATER	JAN.	A.O. SMITH	DEL-30	30	18	140	4.5	208	1	60		1
NOTES:														
1. PROVIDE WITH THERM-X-TROL ST-5 EXPANSION TANK														

PLUMBING FIXTURE CONNECTION SCHEDULE					
FIXTURE	CW	HW	MIN. TRAP SIZE & TRAP ARM	V	NOTES
WATER CLOSET (FLUSH VALVE)	1-1/2"	-	4"	2"	1,2
LAV	3/4"	3/4"	1-1/2"	2"	2
KITCHEN SINK	3/4"	3/4"	1-1/2"	2"	2
MOP SERVICE BASIN	3/4"	3/4"	3"	2"	2
URINAL (FLUSH VALVE)	1-1/2"	-	2"	2"	1,2
SHOWER	3/4"	3/4"	2"	2"	2
NOTES:					
1. 2" MINIMUM WASTE AND 2" VENT PIPE BELOW GRADE.					
2. TRAP SIZE TO BE CONSISTENT WITH FIXTURE OUTLET.					

PLUMBING FIXTURE SCHEDULE			
SYMBOL	MANUFACTURER & MODEL NUMBER	DESCRIPTION	NOTES
BFP-1	WATTS LF909	REDUCED PRESSURE BACKFLOW PREVENTER-BRONZE ASSEMBLY. FULL PORT, QUARTER TURN BRONZE BALL VALVES, WITH TEE HANDLES, TWO INDEPENDENT CHECK VALVES, CAPTURE STRINGS, REPLACEMENT CHECK SEATS AND DIFF. PRESSURE RELIEF, WITH BRONZE STRAINER. 3/4"-2".	
EW-1	ELKAY EDPFBM117C	WALL MOUNT 91 LEVEL DRINKING FOUNTAIN - NON FILTERED, NON REFRIGERATED, STAINLESS STEEL FINISH	
FCO-1	JAY R. SMITH MODEL 4126A	FLOOR CLEANOUT DUCTILE IRON BODY WITH THREADED ADJUSTABLE HOUSING, FLANGED FERRULE WITH BRONZE GASKETED PLUG HAVING NEOPRENE GASKET. ROUND SCORATED NICKEL BRONZE VENEER TRACTOR COVER, NO-HUB OUTLET.	
FD-1	JAY R. SMITH MODEL 2010	6" DIAMETER NICKEL BRONZE STRAINER, ROUND FLOOR DRAIN-CAST IRON BODY WITH FLANGE, ADJUSTABLE NICKEL BRONZE STRAINER, TRAP GUARD AND NO-HUB OUTLET.	
FS-1	JAY R. SMITH 3101-13	SQUARE NICKEL BRONZE TOP. 8 1/2" (215) TOP - MEDIUM RECEPTORS, SANI-RECEPTOR ACID RESISTANT COATED, 3/4" - GRATE. TRAP GUARD WITH SEDIMENT BUCKET.	
HB-1	JAY R. SMITH #5590T	QUARTER TURN NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER AND STAINLESS STEEL BOX.	
LV-1 UNDER MOUNTED	KOHLER K2214-6-0	VITREOUS CHINA UNDER MOUNTED LAVATORY. FAUCETS: KOHLER STARYT K-103536-BN BRUSHED NICKEL, TOUCHLESS, ADA COMPLIANT. SUPPLY WITH STOP. MCQUIRE # BV2165CC LOOSE KEY SUPPLY AND STOP KIT. SUPPLY WITH STOP. MCQUIRE # BV2165CC LOOSE KEY SUPPLY AND STOP KIT. TRAP. MCQUIRE # 8090 CAST P-TRAP WITH CLEANOUT. INSULATION: TREUBRO # LAV GUARD ON TRAP, DRAIN, AND BOTH HOT AND COLD SUPPLY. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT & LOCATION.	PROVIDE TMV-1
MS-1	FIAT TERRAZZO TSB3000 SQUARE	MOP SINK 24 X 24 X 10 INCH HIGH. RECEPTOR COMPOSED OF PEARL GREY MARBLE CHIPS AND WHITE PORTLAND CEMENT GROUT SMOOTH, GROUTED AND SEALED TO RESIST STAINS. FLOOR MOUNTED, WITH 1-1/4 INCH WIDE SHOULDERS, VINYL BUMPER GUARD, STAINLESS STEEL DOME STRAINER. FAUCET: FIAT 830-AA CHROME PLATED WITH VACUUM BREAKER. INTEGRAL STOPS. ADJUSTABLE WALL BRACE, PAIL HOOK, AND 3/4" HOSE THREAD ON SPOUT. BODY INLETS 8" CENTER TO CENTER. PROVIDE 3" QUICK DRAIN CONNECTOR. MODEL 832-AA 30" LONG HOSE AND BRACKET MODEL 885-CC MOP HANGER, MODEL 1453-BB STAINLESS STEEL STRAINER DRAIN AND WALL GUARD. (MOUNT FAUCET AT 36" A.F.F.).	
SK-1	ELKAY LRAD3322551	DOUBLE- BOWL SINK. TYPE 304 STAINLESS STEEL. SELF-RIMMING AND UNDERCOATED, WITH 1-1/2 INCH CHROMED BRASS STAINLESS STEEL DRAIN, LEDGE BACK DRILLED FOR TRIM. FAUCET: ELKAY LK300N0814RE SUPPLY STOP. MCQUIRE # BV2165CC LOOSE KEY SUPPLY AND STOP KIT. SUPPLY WITH STOP. MCQUIRE # BV2165CC LOOSE KEY SUPPLY AND STOP KIT. TRAP. MCQUIRE # 8090 CAST P-TRAP WITH CLEANOUT.	PROVIDE TMV-1
SK-2	KOHLER K-5979-SU-0	WHITE UNDERMOUNT. FAUCET: KOHLER K-7547-4-BL. MATTE BLACK. SUPPLY WITH STOP. MCQUIRE # BV2165CC LOOSE KEY SUPPLY AND STOP KIT. SUPPLY WITH STOP. MCQUIRE # BV2165CC LOOSE KEY SUPPLY AND STOP KIT. TRAP. MCQUIRE # 8090 CAST P-TRAP WITH CLEANOUT.	PROVIDE TMV-1
SK-3	ELKAY LRAD2521551	SINGLE- BOWL SINK. TYPE 304 STAINLESS STEEL. SELF-RIMMING AND UNDERCOATED, WITH 1-1/2 INCH CHROMED BRASS STAINLESS STEEL DRAIN, LEDGE BACK DRILLED FOR TRIM. FAUCET: ELKAY LK300N0814RE SUPPLY STOP. MCQUIRE # BV2165CC LOOSE KEY SUPPLY AND STOP KIT. SUPPLY WITH STOP. MCQUIRE # BV2165CC LOOSE KEY SUPPLY AND STOP KIT. TRAP. MCQUIRE # 8090 CAST P-TRAP WITH CLEANOUT.	PROVIDE TMV-1
TMV-1	ACORN ST70-38	TEMPERING VALVE SIMILAR LEAD-FREE CERTIFIED DZR BRASS BODY, ASSE 1070 AT 0.25 GPM AND MAXIMUM SET POINT 115 DEGREE FAHRENHEIT. FACTOR SET AT 105 DEGREE FAHRENHEIT.	
UR-1	AMERICAN STANDARD MODEL 6581.001EC	VITREOUS CHINA, WALL HUNG URINAL, ELONGATED RIM INTEGRAL TRAP. REMOVABLE STAINLESS STEEL STRAINER, 3/4 INCH TOP SPUD, MOUNT RIM AT 24". FAUCET: AMERICAN STANDARD 6061.013.002 EXPOSED AC POWERED SENSOR FLUSH VALVE.	
UR-2(ADA)	AMERICAN STANDARD MODEL 6581.001EC	VITREOUS CHINA, WALL HUNG URINAL, ELONGATED RIM INTEGRAL TRAP. REMOVABLE STAINLESS STEEL STRAINER, 3/4 INCH TOP SPUD, MOUNT RIM AT 24". FAUCET: AMERICAN STANDARD 6061.013.002 EXPOSED AC POWERED SENSOR FLUSH VALVE. MOUNT RIM AT ADA HEIGHT	
WCO-1	JAY R. SMITH MODEL 4710-05	WALL CLEANOUT-CAST IRON BODY WITH SPOUT INLET/OUTLET AND THREADED BRASS RAISED HEAD. DRILLED AND TAPPED FOR 1/2" SCREW. PROVIDE WITH 9480R, ROUND, STAINLESS STEEL ACCESS COVER HAVING 1/4-20X3-1/2 CENTER SCREW.	
WC-1 (ADA) FLOOR/FLUSH VALVE	AMERICAN STANDARD MODEL 3461001	VITREOUS CHINA FLOOR MOUNTED WATER CLOSET WITH OPEN FRONT LESS COVER SEAT. FLUSH VALVE AMERICAN STANDARD 606B 721 PK60 MAC MULTI AC ADAPTOR. EXPOSED AC POWERED SENSOR. SEAT: BEIMS # 165SCT ELONGATED EXTRA HEAVY DUTY.	
WB-1	GUY GRAY 88525	STAINLESS STEEL ICE MAKER BOX. QUARTER-TURN ARRESTER VALVES WITH 1/2" MPISWEAT CONNECTION FURNISHED, VALVES COMPLY WITH ASME A112.18.1.	



Weed Corley Fish

Vista Ridge and Bagdad Rd
Lander, TX 78841

N-VIZION

FORMS - ENVIRONMENTS - IMAGES

PLUMBING SCHEDULES

Project Number: 230502
Nvzion Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration Nos. TX PE Firm F-12229, TX25498, LA 9413 MI,
1301069591, NV 8262, NC 14863, OH ARC-1917885

Date	Description
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10/25/24	Rev 1 Permit Set

INFINITY

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P0.02

SECTION 22 05 00 - COMMON WORK RESULTS FOR PLUMBING

GENERAL

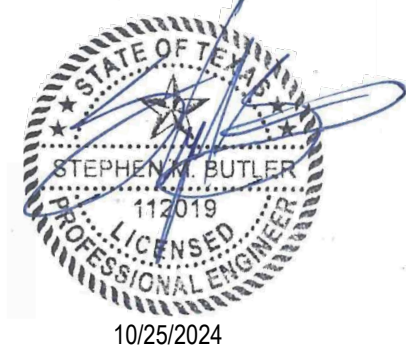
1. THE PLUMBING SYSTEMS WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE INCLUDING ANY STATE OR LOCAL AMENDMENTS.
2. ALL PERMITS/FEE'S BY CONTRACTOR, AND INSPECTIONS WILL BE OBTAINED AS REQUIRED BY ALL LEGAL AUTHORITIES OF WORK INCLUDED IN THESE DOCUMENTS. MATERIAL WHICH ARE SPECIFIED BY REFERENCE TO FEDERAL, STATE, OR OWNER INSURANCE PROVIDERS SPECIFICATION (I.E. ASTM, ASME, ANSI, T.A.S. FM GLOBAL, FOR OR AWWA SPECIFICATIONS, FEDERAL, STATE, OR OWNER INSURANCE PROVIDERS SPECIFICATIONS MUST COMPLY WITH THE LATEST EDITIONS UNLESS OTHERWISE NOTED WITHIN THE CONTRACT DOCUMENTS OR OTHER SPECIFICATION SECTIONS.
3. THE DRAWINGS ARE DIAGRAMATIC AND DO NOT NECESSARILY DEPICT EXACT CONDITIONS. THE INDICATED LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE APPROXIMATE ONLY. THE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT TO BE SCALED. SCALES ARE SHOWN FOR REFERENCE AND APPROXIMATION ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL DATA OF BUILDING COMPONENTS.
4. THE INTER-RELATION OF THE SPECIFICATIONS, THE DRAWINGS, AND THE SCHEDULES ARE AS FOLLOWS:
A. THE SPECIFICATIONS PROVIDE THE WRITTEN REQUIREMENTS FOR THE QUALITY, STANDARD, NATURE OF THE MATERIALS, EQUIPMENT AND CONSTRUCTION SYSTEMS.
B. THE DRAWINGS ESTABLISH THE QUANTITIES, APPROXIMATE DIMENSIONS, DETAILS AND LOCATION OF EQUIPMENT.
C. THE SCHEDULES GIVE THE CAPACITIES, CHARACTERISTICS AND COMPONENTS.
5. FOR ANY INDIVIDUAL PROJECT, IF THERE IS CONFLICT BETWEEN THE DRAWINGS AND OR SPECIFICATIONS, THEY ARE EQUIVALENT IN AUTHORITY AND PRIORITY. SHOULD THEY DISAGREE IN THEMSELVES, OR WITH EACH OTHER, PRIORS SHALL BE BASED ON THE MOST EXPENSIVE COMBINATION OF QUALITY AND QUANTITY OF WORK IDENTIFICATION. IN THE EVENT OF THE ABOVE MENTIONED DISAGREEMENTS THE RESOLUTION SHALL BE DETERMINED BY THE ARCHITECT.
6. THE CONTRACTOR IS RESPONSIBLE TO BRING ANY CONFLICTS IN DRAWINGS AND/OR SPECIFICATIONS TO THE ATTENTION OF THE ARCHITECT, IMMEDIATELY, PRIOR TO ANY WORK BEING DONE.
7. WHERE THE SPECIFICATIONS DO NOT FULLY AGREE WITH THE SCHEDULES, THE SCHEDULES SHALL GOVERN. EQUALLY GIVEN ON DRAWINGS GOVERN SCALE MEASUREMENTS AND LARGE SCALE DETAILS GOVERN SMALL SCALE DRAWINGS.
8. REVIEW ALL CONSTRUCTION DETAILS ILLUSTRATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND BE GUIDED THEREBY.
9. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, DEVICES, AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF WORK SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL NOT SCALE DRAWINGS BUT SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF BUILDING COMPONENTS. SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS REGARDING DIMENSIONS AND SCALE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE DISCREPANCY FOR RESOLUTION.
10. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT, OR LABOR REQUIRED TO PRODUCE A COMPLETE AND PROPERLY OPERATING INSTALLATION.
11. ALL MATERIALS AND EQUIPMENT WILL BE NEW AND WILL BE INSTALLED IN ACCORDANCE WITH INDUSTRY STANDARDS.
12. SUBMITTALS WILL BE PREPARED FOR ALL MATERIALS AND EQUIPMENT INDICATING PERFORMANCE DATA, CATALOG INFORMATION, INSTALLATION DETAILS, ETC. IN ADDITION, SOME AREAS WILL BE DETAILED ON SHOP DRAWINGS AND USED FOR COORDINATION. ALL SUBMITTALS AND SHOP DRAWINGS WILL BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER.
13. COMMON REQUIREMENTS FOR PRODUCT DATA: WHERE THIS SECTION AND OTHER SECTIONS OF THIS DIVISION REQUIRE PRODUCT DATA TO BE SUBMITTED, MEET THE REQUIREMENTS DEFINED IN DIVISION 01 SECTION "SUBMITTAL PROCEDURES". IN ADDITION TO THE REQUIREMENTS OF DIVISION 01 COMPLY WITH THE FOLLOWING:
A. SUBMIT HARD COPY OF PRODUCT DATA IN THE QUANTITY AS REQUIRED UNDER DIVISION 01 SECTION "SUBMITTAL PROCEDURES". HARD COPIES OF PRODUCT DATA SUBMITTALS SHALL BE BOUND MATERIALS AS DEFINED ABOVE. SEPARATE PRODUCTS UNDER DISTINCT SUBHEADINGS THAT CORRESPOND TO PARAGRAPHS IN SPECIFICATION TEXT. DIVIDE SECTIONS IN BINDER WITH LABELED DIVIDER TABS.
B. IN ADDITION TO HARD COPIES REQUIRED BY DIVISION 01, SUBMIT ONE COPY OF PRODUCT DATA IN ELECTRONIC FORMAT. ALL FILES ON DISK SHALL BE IN PORTABLE DOCUMENT FORMAT (.PDF).
C. PRODUCT DATA SHALL NOT CONSIST OF MANUFACTURERS' CATALOGS OR CUT SHEETS THAT CONTAIN NO INDICATION OF THE EXACT ITEM OFFERED. THE SUBMISSION ON INDIVIDUAL ITEMS SHALL DESIGNATE THE EXACT ITEM OFFERED.
14. PRODUCT DATA: FOR THE FOLLOWING:
A. PLUMBING FIXTURES, FAUCETS AND TRIM.
B. WATER HEATERS AND STORAGE TANKS.
C. DOMESTIC WATER PRESSURE BOOSTER SYSTEM.
D. INSULATION.
E. FLOOR DRAINS AND DRAINAGE ACCESSORIES.
F. HYDRANTS AND HOSE BIBBS.
G. MIXING VALVES.
H. HOT WATER RETURN PUMPS.
I. BACKFLOW PREVENTERS.
J. GREASE/OIL INTERCEPTORS.
K. PIPE AND FITTINGS.
L. VALVES.
M. PIPE SUPPORTS.
N. PIPING ACCESSORIES.
O. PIPE LABELS AND VALVE TAGS.
P. DIELECTRIC FITTINGS.
Q. ESCUTCHEONS.
15. AT THE COMPLETION OF THE WORK, BOND SETS OF OPERATIONS AND MAINTENANCE MANUALS WILL BE PROVIDED. THESE MANUALS WILL INCLUDE EQUIPMENT PERFORMANCE DATA, INSTALLATION DETAILS, MAINTENANCE AND SERVICE INSTRUCTIONS, PARTS LISTS, WIRING AND CONTROLS DIAGRAMS.
16. A SET OF PLUMBING DRAWINGS WILL BE MAINTAINED AT THE JOB SITE A SEPARATE SET OF CLEAN CONTRACT DRAWINGS FOR THE SOLE PURPOSE OF RECORDING THE INSTANT CHANGES AND DIAGRAMS OF THOSE PORTIONS OF WORK IN WHICH ACTUAL CONSTRUCTION IS SIGNIFICANTLY DIFFERENT FROM THE CONTRACT DOCUMENTS. AT THE END OF THE PROJECT, OBTAIN WITHOUT COST TO THE OWNER A SET OF THE ORIGINAL PLUMBING DRAWINGS/COPIES INDICATING ALL CHANGES FROM THE CONTRACT DOCUMENTS. THE OWNERS RECORDS, DELIVERY OF THE AS-BUILT PRINTS AND CAD FILES IS A CONDITION OF FINAL ACCEPTANCE OF THE WORK COMPLETED.
17. COMMON REQUIREMENTS FOR SPECIFICATION COMPLIANCE CERTIFICATION: WHERE THIS SECTION AND OTHER SECTIONS OF THIS DIVISION REQUIRE SPECIFICATION COMPLIANCE CERTIFICATION TO BE SUBMITTED, MEET THE REQUIREMENTS DEFINED IN DIVISION 01 SECTION "SUBMITTAL PROCEDURES" FOR OTHER INFORMATIONAL SUBMITTALS. IN ADDITION TO THE REQUIREMENTS OF DIVISION 01 COMPLY WITH THE FOLLOWING:
A. PREPARE A LINE-BY-LINE SPECIFICATION COMPLIANCE CERTIFICATION BY MARKING UP A COPY OF THE CONTRACT DOCUMENT SPECIFICATION SECTION IN THE LEFT MARGIN, ACCOMPANY THE MARKUP WITH A WRITTEN REPORT EXPLAINING ALL ITEMS THAT ARE NOT MARKED WITH "COMPLIANCE". SUBMIT LINE-BY-LINE MARKUP, WRITTEN REPORT OF DEVIATIONS AND ALTERNATES AND A COVER LETTER CERTIFIED BY MANUFACTURER OR INSTALLER THAT PREPARED THE SPECIFICATION COMPLIANCE CERTIFICATION. USE THE FOLLOWING KEY FOR PREPARING THE LINE-BY-LINE MARKUP:
a. "C" FOR COMPLIANCE: BY NOTING THE TERM "COMPLIANCE" OR "C" IN THE MARGIN, IT SHALL BE UNDERSTOOD THAT THE MANUFACTURER IS IN FULL COMPLIANCE WITH THE ITEM SPECIFIED AND WILL PROVIDE EXACTLY THE SAME WITH NO DEVIATIONS.
b. "D" FOR DEVIATION: BY NOTING THE TERM "DEVIATION" OR "D" IN THE MARGIN, IT SHALL BE UNDERSTOOD THAT THE MANUFACTURER PREFERS TO PROVIDE A DIFFERENT COMPONENT IN LIEU OF THAT SPECIFIED.
c. "A" FOR ALTERNATE: BY NOTING THE TERM "ALTERNATE" OR "A" IN THE MARGIN, IT SHALL BE UNDERSTOOD THAT THE MANUFACTURER PROPOSES TO PROVIDE THE SAME OPERATING FUNCTION BUT PREFERS TO DO IT IN A DIFFERENT MANNER.
d. "N/A" FOR NOT APPLICABLE: BY NOTING THE TERM "NOT APPLICABLE" OR "N/A" IN THE MARGIN, IT SHALL BE UNDERSTOOD THAT THE SPECIFIED ITEM IS NOT APPLICABLE TO THE PROJECT.
18. ALL APPROVALS REQUIRED BY ANY CODE OR ENFORCEMENT AUTHORITY, INSURANCE UNDERWRITER, ETC. SHALL BE OBTAINED PRIOR TO EQUIPMENT BEING SUBMITTED TO THE ENGINEER.
19. REVIEW OF SUBMITTALS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR COMPLYING WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. FURTHERMORE, THE CONTRACTOR SHALL BE RESPONSIBLE OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF ALL APPLIED EQUIPMENT WITH OTHER TRADES AND DISCIPLINES SUCH AS ROOF OPENINGS, WALL OPENINGS, ELECTRICAL CHARACTERISTICS, ETC.
20. ALL SUBMITTALS SHALL BE IDENTIFIED BY THE EQUIPMENT MARK OR TAG IDENTIFICATION NUMBERS SHOWN ON THE CONTRACT DRAWINGS. EACH INDIVIDUAL SUBMITTAL ITEM SHALL BE MARKED TO SHOW WHICH SPECIFICATION SECTION PERTAINS TO THE ITEM.
21. SUBMITTALS SHALL CLEARLY INDICATE SELECTION OF MODEL NUMBERS, SIZES, DIMENSIONS, ELECTRICAL CHARACTERISTICS, ETC. OF THE PROPOSED EQUIPMENT. ANY PROPOSED DEVIATIONS FROM SPECIFIED EQUIPMENT SHALL BE CLEARLY INDICATED ON THE SUBMITTAL.
22. COORDINATION WILL TAKE PLACE WITH OTHER TRADES DURING CONSTRUCTION. ANY INTERFERENCES FOUND DUE TO OTHER TRADES WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
23. UPON COMPLETION OF THE WORK, AND AT TIMES DURING THE INSTALLATION, RUBBISH AND DEBRIS RESULTING FROM THE SCOPE OF THIS WORK WILL BE REMOVED TO A LOCATION ON SITE PROVIDED BY THE GENERAL CONTRACTOR AND THE AREA WILL BE LEFT IN A NEAT, ALL FLOOR DRAINS AND PLUMBING FIXTURE/EQUIPMENT SHALL BE CLEANED TO LIKE NEW CONDITIONS.
24. ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED UNDER THIS SCOPE OF WORK WILL BE GUARANTEED TO BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER THE DATE OF EQUIPMENT START-UP.
25. ANY OPENINGS REQUIRED THROUGH STRUCTURAL WALLS, FLOORS AND ROOFS WILL BE IDENTIFIED ON BLOCK OUT DRAWINGS AND PROVIDED TO THE GENERAL CONTRACTOR. ALL FORMING, CUTTING AND FRAMING TO THESE OPENINGS WILL BE BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARCHITECTURAL ACCESS DOORS REQUIRED IN CEILINGS AND WALLS WILL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
26. PIPE SLEEVES WILL BE PROVIDED WHERE PIPING PASSES THROUGH WALLS AND FLOORS. SLEEVES WILL BE 18 GAUGE GALVANIZED STEEL FOR WALLS AND STEEL PIPE FOR FLOORS. FIRE STOP WILL BE PROVIDED WHERE THE FLOOR OR WALLS ARE FIRE RATED. SLEEVES WILL BE EXTENDED 2 INCHES ABOVE THE FLOOR IN "WET" AREAS.
27. PRIOR TO THE ORDERING OR PURCHASING OF ANY PLUMBING EQUIPMENT OR MATERIALS OR THE LAYOUT OR INSTALLATION OF ANY WORK, THE CONTRACTOR SHALL EXAMINE THE PREMISES AND VERIFY ANY AND ALL OF THE EXISTING CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO OPERATE, OR THAT WILL IN ANY MANNER AFFECT THE WORK UNDER THIS CONTRACT.
28. ACTIVE SERVICES: WHEN ENCOUNTERED IN WORK, PROTECT, BRACE, AND SUPPORT EXISTING ACTIVE SEWER, GAS AND OTHER SERVICES REQUIRED FOR PROPER EXECUTION OF THE WORK. IF EXISTING ACTIVE SERVICES ARE ENCOUNTERED THAT REQUIRE RELOCATION, RELOCATE AS SHOWN ON THE CONTRACT DOCUMENTS OR AS NECESSARY. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO REMAIN. NOTIFY UTILITY COMPANIES OR MUNICIPAL AGENCIES HAVING JURISDICTION.
29. INTERRUPTION OF SERVICES: WHERE WORK MAKES TEMPORARY SHUT DOWN OF SERVICES UNAVOIDABLE, SHUT DOWN AT NIGHT OR AT SUCH TIMES AS APPROVED BY OWNER, WHICH WILL CAUSE THE LEAST INTERFERENCE WITH SCHEDULED OPERATIONS. ARRANGE WORK TO ASSURE THAT SERVICES WILL BE SHUT DOWN ONLY DURING TIME ACTUALLY REQUIRED TO MAKE THE CONNECTION TO THE EXISTING WORK.
30. THE EXISTING SYSTEM INSTALLATIONS REMOVED OR DAMAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE. EXISTING DUCTWORK, PIPE, INSULATION, EQUIPMENT OR MATERIAL DAMAGED BY THE CONTRACTOR WHILE PERFORMING ANY WORK SHALL BE REPLACED WITH NEW MATERIALS TO MATCH EXISTING CONDITIONS.
31. WHERE WORK UNDER THIS PROJECT REQUIRES EXTENSION, RELOCATION, RECONNECTION OR MODIFICATIONS TO EXISTING EQUIPMENT OR SYSTEMS, THE EXISTING EQUIPMENT OR SYSTEMS SHALL BE RESTORED TO THEIR ORIGINAL AND OPERATING CONDITION.
32. ALL PIPE, FITTINGS, INSULATION, SUPPORTS, ETC. REMOVED IN THE RENOVATION AREA ARE TO BE REMOVED FROM THE SITE. NO EXISTING PIPE OR MATERIALS ARE TO BE REMOVED AND REUSED ON THE RENOVATION.

EXECUTION

1. INSTALLATION OF PIPING, VALVES AND EQUIPMENT
2. PITCH: HORIZONTAL SANITARY AND DRAIN PIPING WILL BE RUN AT AN UNIFORM GRADE OF 1/4" PER FOOT FOR 2-1/2" AND LESS PIPE SIZES, 1/8" PER FOOT FOR 3" AND ABOVE PIPE SIZE. CONTRACTOR SHALL INSTALL PLUMBING SYSTEM SLOPE PER CODE AND AUTHORITIES HAVING JURISDICTION.
A. WATER PIPING WITH WALLS AND ROUGH-INS FOR FIXTURES AND EQUIPMENT: COPPER PLATED STEEL SUPPORT SYSTEM SOLDED TO PIPING AND SECURED TO BUILDING CONSTRUCTION SO THAT PIPES CAN BE REMOVED OR REPLACED WITHOUT DISTURBING THE BUILDING CONSTRUCTION WITH STANDARD JACKETS, WITH OR WITHOUT VAPOR BARRIER, FACTORY APPLIED OR FIELD APPLIED. FITTINGS, JOINTS, AND VALVES WILL BE INSULATED WITH LIKE MATERIAL AND THICKNESS AS ADJOINING PIPE.
B. WASTE AND VENT PIPING WITH WALLS AND ROUGH-INS FOR FIXTURES AND EQUIPMENT: COPPER PLATED STEEL SUPPORT SYSTEM FOR COPPER DWV PIPING OR GALVANIZED STEEL SUPPORT SYSTEM FOR CAST IRON OR GALVANIZED PIPING. SUPPORTS TO PIPING BUILDING CONSTRUCTION WILL BE SECURED SO THAT PIPES CANNOT BE DISPLACED. FELT STRIP ISOLATION WILL BE PROVIDED BETWEEN DISSIMILAR METALS. (HOLDITRIP OR EQUIVALENT)
C. UNDERGROUND PIPING: NO-HUI SOL PIPE NOT PERMITTED.
D. UNIONS AND FLANGES: ON PIPING TO INLET AND OUTLET OF ALL APPARATUS AND EQUIPMENT TO FACILITATE REMOVAL OF EQUIPMENT, AND DOWNSTREAM OF ALL SHUTOFF VALVES.
E. WATER HAMMER ARRESTERS: WATER HAMMER ARRESTERS WILL BE INSTALLED AT ALL QUICK CLOSING VALVES, SUCH AS FLUSH VALVES, FOOT CONTROL VALVES, FLOAT VALVES, SOLENOID VALVES, ETC. WATER HAMMER ARRESTERS WILL BE SIZED AND LOCATED AS RECOMMENDED BY PDI MANUAL VH 201.
3. CLEANS OUTS WILL BE PROVIDED AND INSTALLED PER CPC SECTION 707.0 AND 719.0.
4. LABELS AND IDENTIFICATION: VALVE TAGS, PIPING SYSTEMS AND EQUIPMENT IDENTIFICATIONS AS SPECIFIED IN PLUMBING IDENTIFICATION.
5. PIPING SYSTEM LEAK TESTS:
A. POTABLE WATER PIPING WILL BE HYDROSTATICALLY PRESSURE TESTED FOR A DURATION OF FOUR HOURS AT A TEST PRESSURE OF 120 PSIG.
B. SANITARY DRAINAGE, VENT, AND WASTE PIPING WILL BE TESTED HYDROSTATICALLY BY CLOSING ALL OPENINGS IN THE PIPING SYSTEM, EXCEPT THE HIGHEST OPENING ABOVE THE ROOF, AND BY FILLING THE SYSTEM TO THE POINT OF OVERFLOWING. THE PRESSURE EXERTED ON THE SYSTEM WILL BE NO LESS THAN 10 FEET OF HEAD.
6. PLUMBING DEMOLITION
A. DISCONNECT, DEMOLISH, AND REMOVE PLUMBING SYSTEMS, EQUIPMENT, AND COMPONENTS INDICATED TO BE REMOVED.
a. PIPING TO BE REMOVED: REMOVE PORTION OF PIPING IDENTIFIED TO BE REMOVED AND CAP OR PLUG REMAINING PIPING WITH SAME OR COMPATIBLE PIPING MATERIAL.
b. EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT.
c. EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT.
d. REMOVE, CLEAN, AND STORE EQUIPMENT, WHEN APPROPRIATE. REINSTATE, RECONNECT, AND MAKE EQUIPMENT OPERATIONAL.
e. EQUIPMENT TO BE REMOVED AND SALVAGED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT AND DELIVER TO OWNER.
B. IF PIPE, INSULATION, OR EQUIPMENT TO REMAIN IS DAMAGED IN APPEARANCE OR IS UNREPAIRABLE, REMOVE DAMAGED OR UNSERVICEABLE PORTIONS AND REPLACE WITH NEW PORTIONS OF EQUAL CAPACITY AND QUALITY.
7. DOMESTIC HOT WATER SYSTEM BALANCING
A. THE TEST AND BALANCING CONTRACTOR SHALL PROVIDE TESTING, ADJUSTING, AND BALANCING OF THE HOT WATER SYSTEM. ONCE THE SYSTEM IS FULLY INSTALLED AND OPERATIONAL, PRELIMINARY AND FINAL REPORTS SHALL BE PREPARED AND ISSUED TO THE GENERAL CONTRACTOR, ARCHITECT AND ENGINEER.
B. PREPARATION OF THE HOT WATER SYSTEM FOR BALANCING:
a. CONFIRM OUTLET TEMPERATURE OF THE SYSTEM AT WATER HEATERS AND/OR STORAGE TANKS.
b. VERIFY RECIRCULATION PUMP OPERATION AND ROTATION.
c. CONFIRM/AJUST SETPOINT OF EACH INDIVIDUAL RISER BALANCING VALVE TO FLOW A MINIMUM OF 0.5 GPM OR AS OTHERWISE NOTED ON THE DOCUMENTS.
C. THE TEST AND BALANCING CONTRACTOR SHALL INDICATE THE FOLLOWING:
a. PRESSURE, TEMPERATURE AND FLOW IN GPM AT THE DISCHARGE SIDE OF EACH BALANCING VALVE REFERENCING THE VALVE TAG NUMBER.
b. PRESSURE, TEMPERATURE AND FLOW IN GPM AT THE SUCTION SIDE OF EACH RECIRCULATING PUMP.
D. COPIES OF THE FINAL APPROVED BALANCING REPORT ARE TO BE INCLUDED IN THE O AND M MANUALS AS NOTED IN PERMITS UNDER PART 1 OF SECTION 22 05 00.

SECTION 22 05 13 - COMMON WORK REQUIREMENTS FOR PLUMBING EQUIPMENT

1. TEST MOTORS IN ACCORDANCE WITH NEMA MG 1, INCLUDING WINDING RESISTANCE, NO-LOAD SPEED AND CURRENT, LOCKED ROTOR CURRENT, INSULATION HIGH-POTENTIAL TEST, AND MECHANICAL ALIGNMENT TESTS. INSTALL SECURELY ON FIRM FOUNDATION. MOUNT BALL BEARING MOTORS WITH SHIM IN ANY POSITION. INSTALL ENGRAVED PLATE NAMEPLATES. GROUND AND BOND MOTORS.
2. SINGLE-PHASE MOTORS: PERMANENT SPLIT-CAPACITOR TYPE, WHERE AVAILABLE; OTHERWISE, USE SPLIT-PHASE START/CAPACITOR OR CAPACITOR START/CAPACITOR RUN MOTOR. TERMINAL LUGS TO MATCH BRANCH CIRCUIT CONDUCTOR TYPES, SIZES, AND MATERIALS.
3. THREE-PHASE MOTORS: NEMA MG 1, DESIGN B, PREMIUM-EFFICIENCY SQUIRREL-CAGE INDUCTION MOTOR, WITH WINDINGS TO MATCH STARTING METHOD AND NUMBER OF SPEEDS INDICATED. SERVICE FACTOR 1.15 UNLESS OTHERWISE INDICATED ON DRAWINGS. ENCLOSURE: MEET CONDITIONS OF INSTALLATION UNLESS SPECIFIC ENCLOSURE IS SPECIFIED OR INDICATED. DESIGN FOR CONTINUOUS OPERATION IN 40 DEGREES C ENVIRONMENT, WITH BACKDRAGGING RISE IN AMBIENT TEMPERATURE. LIMITS FOR INSULATION CLASS, SERVICE FACTOR, AND MOTOR ENCLOSURE TYPE: INSULATION SYSTEM: NEMA CLASS F. MOTOR FRAME: NEMA STANDARD 2-FRAMES OF STEEL, ALUMINUM, OR CAST IRON WITH END BRACKETS OF CAST IRON OR ALUMINUM. CAST IRON END BRACKET WITH REMOVED END BRACKET. END BRACKET WITH REMOVED END BRACKET



PLUMBING SPECIFICATIONS
Project Number: 230502
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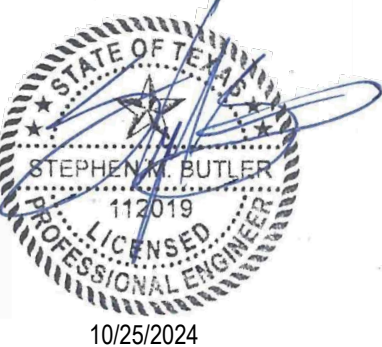
PLUMBING SPECIFICATIONS

SECTION 22 11 19 - DOMESTIC WATER PIPING SPECIALTIES		SECTION 22 11 23 - DOMESTIC WATER PUMPS		SECTION 22 13 16 - SANITARY WASTE AND VENT PIPING	
1. VACUUM BREAKERS		1. MANUFACTURERS		1. MANUFACTURERS SHALL BE ISO 9001 ACCREDITED	
A. PIPE-APPLIED ATMOSPHERIC-TYPE VACUUM BREAKERS.		A. PUMP MANUFACTURERS:		PIPE AND FITTINGS ABOVE GROUND: CSIP 310 OR ASTM C 1277, CAST IRON NO-HUB SOIL PIPE AND FITTINGS WITH STAINLESS STEEL NO-HUB COUPLINGS. ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND BE LISTED BY NSF INTERNATIONAL.	
a. STANDARD: ASSE 1001		a. ARMSTRONG PUMPS INC.		INDIRECT DRAIN: TYPE M, ASTM B-88, SEAMLESS HARD TEMPER, COLD DRAWN COPPER TUBING WITH ANSI B16.29 WROUGHT COPPER SOLDER SWEAT DRAINAGE FITTINGS.	
b. SIZE: NPS 1/4 TO NPS 3/4, AS REQUIRED TO MATCH CONNECTED PIPING.		b. AURORA PUMP, PENTAIR PUMP GROUP (THE)		CAST IRON SOIL PIPE NO-HUB COUPLINGS: CONFORMING TO ASTM C 1540. HEAVY DUTY, 24 GAUGE, TYPE 304 STAINLESS STEEL, SHIELD AND CLAMP ASSEMBLY WITH ASTM C 564 NEOPRENE SEALING SLEEVE TORQUED TO A MINIMUM OF 100 INCH.LBS. COUPLING WILL BE FACTORY MUTUAL APPROVED PER STANDARD 1680, CLASS I (HUSKY 4000 OR EQUIVALENT)	
c. BODY: BRONZE		c. BELL & GOSSETT DOMESTIC PUMP, ITT INDUSTRIES.		PVC PIPE AND FITTINGS BELOW GROUND: SOLID-WALL PVC PIPE ASTM D 2665 AND ASTM D1785, DRAIN, WASTE, AND VENT. ALL BURIED PVC PIPING SYSTEMS SHALL BE INSTALLED PER ASTM D3231.	
d. INTEL AND OUTLET CONNECTIONS: THREADED.		d. GRUNDFOS PUMPS CORP.		PVC SOCKET FITTINGS: ASTM D 2665, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS AND TO FIT SCHEDULE 40 PIPE	
e. FINISH: ROUGH BRONZE.		2. CLOSE-COUPLED, HORIZONTALLY MOUNTED, IN-LINE CENTRIFUGAL PUMPS		ADHESIVE PRIMER: ASTM F 656	
B. HOSE CONNECTION VACUUM BREAKERS		DESCRIPTION: FACTORY-ASSEMBLED AND -TESTED, OVERHUNG IMPELLER, SINGLE-STAGE, CLOSE-COUPLED, HORIZONTALLY MOUNTED, IN-LINE CENTRIFUGAL PUMPS AS DEFINED IN ANSI H1.1-1.2 AND H1.3, AND DESIGNED FOR INSTALLATION WITH PUMP AND MOTOR SHAFTS MOUNTED HORIZONTALLY.		A. ADHESIVE PRIMER SHALL HAVE A VOC OF 550GL OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24)	
a. STANDARD: ASSE 1011.		a. PUMP CONSTRUCTION: ALL BRONZE		B. ADHESIVE PRIMER "STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS".	
b. BODY: BRONZE, NONREMOVABLE, WITH MANUAL DRAIN.		c. CASING: RADIALLY SPLIT, CAST IRON, WITH THREADED COMPANION-FLANGE		8. SOLVENT CEMENT: ASTM D 2564	
c. OUTLET CONNECTION: GARDEN-HOSE THREADED COMPLYING WITH ASME B1.20.7		CONNECTIONS FOR PUMPS WITH NPS 2 (DN 50) PIPE CONNECTIONS AND FLANGED CONNECTIONS FOR PUMPS WITH NPS 2-1/2 (DN 65) PIPE CONNECTIONS		ADHESIVE PRIMER SHALL HAVE A VOC OF 550GL OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24)	
d. FINISH: CHROME OR ROUGH BRONZE.		IMPELLER, ASTM B 584, CAST BRONZE, STATICALLY AND DYNAMICALLY BALANCED, CLOSED, AND KEV-10 TO SHAFT.		B. ADHESIVE PRIMER "STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS".	
2. BACKFLOW PREVENTERS		SHAFT AND SHAFT SLEEVE: STEEL SHAFT, WITH COPPER-ALLOY SHAFT SLEEVE.		9. CORROSIVE WASTE: IF REQUIRED ON THE PROJECT, CORROSIVE WASTE PIPING SHALL BE:	
A. REDUCING-PRESSURE PRINCIPLE BACKFLOW PREVENTERS		SEAL: MECHANICAL, WITH CARBON-STEEL ROTATING RING, STAINLESS-STEEL SPRING, CERAMIC SEAT, AND RUBBER BELLOW AND GASKET. INCLUDE WATER SLINGER ON SHAFT BETWEEN MOTOR AND SEAL.		A. CPVC PIPE AND FITTINGS CONFORMING TO ASTM F2816. ALL COMPONENTS SHALL BE MANUFACTURED AS A SYSTEM FROM ONE MANUFACTURER AND BE CERTIFIED BY NSF INTERNATIONAL AND BEAR THE MARK NSF-CW	
a. STANDARD: ASSE 1013.		BEARINGS: OIL-LUBRICATED, BRONZE, JOURNAL OR BALL TYPE.		EXECUTION	
b. OPERATION: CONTINUOUS-PRESSURE APPLICATIONS.		OPERATION OF PUMP: ON OR OFF		1. PREPARATION	
c. SIZE: NPS 1/2 TO NPS 2		TRANSFORMER, PROVIDE IF REQUIRED.		A. REAM PIPE AND TUBE ENDS, REMOVE BURRS, BEVEL PLAIN END FERROUS PIPE.	
d. BODY: BRONZE FOR NPS 2 AND SMALLER.		F. POWER REQUIREMENT: 120 V, AC.		B. COORDINATE THE EXACT LOCATION OF ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. ENSURE DRAINS ARE LOCATED AT LOW POINT(S) OF FLOOR SLOPE.	
e. END CONNECTION: THREADED FOR NPS 2 AND SMALLER		PROGRAMMABLE SEQUENCE OF OPERATION: UP TO TWO ON-OFF CYCLES EACH DAY FOR SEVEN DAYS		C. REMOVE SCALE AND DIRT, ON INSIDE AND OUTSIDE, BEFORE ASSEMBLY.	
f. ACCESSORIES:		3. TIMERS		D. INSTALLATION - BURIED PIPING SYSTEMS	
• VALVES NPS AND SMALLER: BALL TYPE WITH THREADED ENDS ON INLET AND OUTLET		ELECTRIC TIME CLOCK FOR CONTROL OF HOT-WATER CIRCULATION PUMP.		A. ESTABLISH MINIMUM SEPARATION FROM OTHER SERVICES PIPING IN ACCORDANCE WITH CODE.	
• AIR-GAP FITTING: ASME A112.1.2, MATCHING BACKFLOW-PREVENTER CONNECTION.		A. MANUFACTURERS:		C. REMOVE SCALE AND DIRT ON INSIDE OF PIPING BEFORE ASSEMBLY.	
B. DOUBLE-CHECK BACKFLOW-PREVENTION ASSEMBLIES		b. HONEYWELL INTERNATIONAL, INC.		D. INSTALL WITH A UNIFORM SLOPE OF NOT LESS THAN 1/8 OF AN INCH PER FOOT.	
a. STANDARD: ASSE 1015		c. JOHNSON CONTROLS, INC.		E. INSTALL PIPE ON PREPARED BEDDING OF BANK SAND, MINIMUM OF 2" DEPTH ON BOTTOM OF TRENCH UP TO CENTERLINE OF PIPE.	
b. OPERATION: CONTINUOUS-PRESSURE APPLICATIONS UNLESS OTHERWISE INDICATED.		D. TYPE: PROGRAMMABLE, SEVEN-DAY CLOCK WITH MANUAL OVERRIDE ON-OFF SWITCH.		F. ROUTE PIPE IN STRAIGHT LINE.	
c. PRESSURE LOSS: 5 PSIG MAXIMUM, THROUGH MIDDLE THIRD OF FLOW RANGE.		E. ENCLOSURE: SUITABLE FOR WALL MOUNTING.		G. EXCAVATION:	
d. SIZE: NPS 3/4" TO NPS 1 1/4"		OPERATION OF PUMP: ON OR OFF		a. EXCAVATE TRENCHES FOR UNDERGROUND PIPING TO THE REQUIRED DEPTH TO ENSURE TWO (2) FOOT MINIMUM COVERAGE OVER PIPING.	
e. BODY: BRONZE FOR NPS 2 AND SMALLER, STEEL WITH INTERIOR LINING THAT COMPLIES WITH AWWA C550 OR THAT IS FDA APPROVED FOR NPS 2-1/2 AND LARGER.		TRANSFORMER, PROVIDE IF REQUIRED.		b. CUT THE BOTTOM OF THE TRENCH OR EXCAVATION TO UNIFORM GRADE.	
f. END CONNECTION: THREADED FOR NPS 2 AND SMALLER, FLANGE FOR NPS 2-1/2 AND LARGER CONFIGURATION: DESIGN FOR (HORIZONTAL, STRAIGHT-THROUGH) FLOW.		F. POWER REQUIREMENT: 120 V, AC.		c. LAY OUT ALIGNMENT OF PIPE TRENCHES TO AVOID OBSTRUCTIONS. ASSURE THAT PROPOSED ROUTE OF PIPE WILL NOT INTERFERE WITH BUILDING FOUNDATION BEFORE ANY CUTTING IS BEGUN. SHOULD INTERFERENCE BE FOUND, CONTACT THE ARCHITECT/ENGINEER BEFORE PROCEEDING.	
g. ACCESSORIES:		PROGRAMMABLE SEQUENCE OF OPERATION: UP TO TWO ON-OFF CYCLES EACH DAY FOR SEVEN DAYS		H. PIPE COVER AND BACKFILLING	
• VALVES NPS 2 AND SMALLER: BALL TYPE WITH TYPE WITH THREADED ENDS ON INLET AND OUTLET.		3. CONTROLS		a. BACKFILL SHALL NOT BE PLACED UNTIL THE WORK HAS BEEN INSPECTED, TESTED, AND APPROVED. COMPLETE BACKFILL TO THE SURFACE OF NATURAL GROUND OR TO THE LINES AND GRADERS SHOWN ON DRAWINGS, EXCEPT WHERE SPECIAL MATERIALS ARE REQUESTED, USE SUITABLE FRAGILE SOILS FROM OTHER EXCAVATION AS BACKFILL MATERIAL. DO NOT USE PEAT, SILT, MUCK, DEBRIS OR OTHER ORGANIC MATERIALS. DEPOSIT BACKFILL IN UNIFORM LAYERS AND COMPACT EACH LAYER AS SPECIFIED IN DIVISION 2	
• FLANGE ENDS ON INLET AND OUTLET.		A. INSTALL IMMERSION-TYPE AQUASTATS IN HOT-WATER RETURN PIPING.		b. COMPACTING BACKFILL: PLACE MATERIAL IN UNIFORM LAYERS OF PRESCRIBED MAXIMUM THICKNESS AND WET OR DRY THE MATERIAL TO OPTIMUM MOISTURE CONTENT. COMPACT WITH POWER-DRIVEN TAMPERS TO THE PRESCRIBED DENSITY. PLACE REGULAR BACKFILL IN EIGHT (8) INCH MAXIMUM LAYERS, LOOSE MEASURE. COMPACT TO NOT LESS THAN 95% OF MAXIMUM SOIL DENSITY AS DETERMINED BY ASTM D-698 STANDARD PROCTOR.	
C. BEVERAGE-DISPENSING EQUIPMENT BACKFLOW PREVENTERS		INSTALL TIMERS.		c. RESTORATION: COMPACT BACKFILL, WHERE TRENCHING OR EXCAVATION IS REQUIRED IN IMPROVED AREAS SUCH AS PAVEMENTS, WALKS, AND SIMILAR AREAS, TO A CONDITION EQUAL TO THE ADJACENT UNDISTURBED EARTH, AND RESTORE SURFACE OF THE AREA TO THE CONDITION EXISTING PRIOR TO TRENCHING OR EXCAVATING OPERATION.	
a. STANDARD: ASSE 1022		CONNECTIONS		I. DISPOSAL OF EXCESS MATERIAL	
b. OPERATION: CONTINUOUS-PRESSURE APPLICATIONS.		A. PIPING INSTALLATION REQUIREMENTS ARE SPECIFIED IN OTHER DIVISION 22 SECTIONS, DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.		a. REMOVE EXCESS EXCAVATION MATERIAL OR MATERIAL UNSUITABLE FOR BACKFILL. EXCESS MATERIAL CAN BE SPREAD ON GRADE, OR SHALL BE REMOVED FROM SITE AS DIRECTED BY OWNER/ARCHITECT	
c. SIZE: NPS 1/4 OR NPS 3/8		INSTALL PUMPS TO ALLOW SERVICE AND MAINTENANCE.		3. INSTALLATION - ABOVE GROUND PIPING	
d. BODY: STAINLESS STEEL		CONNECT DOMESTIC WATER PIPING TO PUMPS. INSTALL SUCTION AND DISCHARGE PIPING EQUAL TO OR GREATER THAN SIZE OF PUMP NOZZLES. REFER TO DIVISION 22 SECTION "DOMESTIC WATER PIPING."		A. ESTABLISH INVERT ELEVATIONS, SLOPES FOR DRAINAGE TO 1/8 INCH PER FOOT (ONE (1) PERCENT) MINIMUM MAINTAIN GRADIENTS.	
e. END CONNECTIONS: THREADED.		a. INSTALL SHUTOFF VALVE AND STRAINER ON SUCTION SIDE OF PUMPS, AND CHECK VALVE AND THROTTLING VALVE ON DISCHARGE SIDE OF PUMPS. INSTALL VALVES SAME SIZE AS CONNECTED PIPING. REFER TO DIVISION 22 SECTION "GENERAL-DUTY VALVES FOR PLUMBING PIPING" FOR GENERAL-DUTY VALVES FOR DOMESTIC WATER PIPING AND DIVISION 22 SECTION "DOMESTIC WATER PIPING SPECIALTIES" FOR STRAINERS.		B. FURNISH AND INSTALL CLEANOUTS IN SOIL AND WASTE LINES AS REQUIRED BY CODE AND/OR JOB CONDITIONS, AS SHOWN ON THE DRAWINGS AND AS FOLLOWS: AT OR NEAR THE END OF EACH BRANCH AND MAIN DRAINAGE LINE, HORIZONTAL LINES AT INTERVALS AS REQUIRED BY CODE. ALL CLEANOUTS SHALL BE READILY ACCESSIBLE, WITH PLUGS EASILY REMOVABLE FOR CLEANOUT LINES. CLEANOUTS AT THE BASE OF VERTICAL PIPING SHALL BE HELD WITHIN 2'-0" FROM FINISHED FLOOR UNLESS OTHERWISE INDICATED.	
C. DUAL-CHECK VALVE BACKFLOW PREVENTERS		b. INSTALL PRESSURE GAGES AT SUCTION AND DISCHARGE OF PUMPS, REFER TO DIVISION 22 SECTION "METERS AND GAGES FOR PLUMBING PIPING" FOR PRESSURE GAGES AND GAGE CONNECTORS.		C. EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL. PROVIDE CLEARANCES AT CLEANOUT FOR SNAKING DRAINAGE SYSTEM.	
a. STANDARD: ASSE 1024		GROUND EQUIPMENT ACCORDING TO DIVISION 26 SECTION "GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS."		D. ENCASE EXTERIOR CLEANOUTS IN CONCRETE FLUSH WITH GRADE.	
b. OPERATION: CONTINUOUS PRESSURE APPLICATIONS.		ELECTRICAL SYSTEMS."		E. INSTALL FLOOR CLEANOUTS AT ELEVATION TO ACCOMMODATE FINISHED FLOOR.	
c. SIZE: NPS 1/4 OR NPS 3/8		INTERLOCK PUMP WITH WATER HEATER BURNER AND TIME DELAY RELAY.		F. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINING DISSIMILAR METALS.	
d. BODY: STAINLESS STEEL		1. PUMP INSTALLATION		G. ROUTE PIPING IN ORDERLY MANNER AND MAINTAIN GRADIENT. ROUTE PARALLEL AND PERPENDICULAR TO WALLS.	
e. END CONNECTIONS: THREADED.		A. COMPLY WITH ANSI H1.4.		H. PROVIDE PIPING TO MAINTAIN HEADROOM. DO NOT SPREAD PIPING. CONSERVE SPACE.	
F. DOUBLE CHECK DETECTOR/ASSEMBLY BACKFLOW PREVENTERS		INSTALL PUMPS WITH ACCESS FOR PERIODIC MAINTENANCE INCLUDING REMOVAL OF MOTORS, IMPELLERS, COUPLINGS, AND ACCESSORIES.		I. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.	
a. STANDARD: ASSE 1048 AND IS FM GLOBAL APPROVED OR UL LISTED.		INSTALL CLOSE-COUPLED, HORIZONTALLY MOUNTED, IN-LINE CENTRIFUGAL PUMPS WITH MOTOR AND PUMP SHAFTS HORIZONTAL.		J. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.	
b. OPERATION: CONTINUOUS-PRESSURE APPLICATIONS.		INSTALL CONTINUOUS-THREAD HANGER RODS AND SPRING HANGERS WITH VERTICAL-LIMIT STOP OF SUFFICIENT SIZE TO SUPPORT PUMP WEIGHT. VIBRATION ISOLATION DEVICES ARE SPECIFIED IN DIVISION 22 SECTION "VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT."		K. PROVIDE CLEARANCE IN HANGERS AND FROM STRUCTURE AND OTHER EQUIPMENT FOR INSTALLATION OF INSULATION.	
c. PRESSURE LOSS: 5 PSIG MAXIMUM, THROUGH MIDDLE THIRD OF FLOW RANGE.		FABRICATE BRACKETS OR SUPPORTS AS REQUIRED. HANGER AND SUPPORT MATERIALS ARE SPECIFIED IN DIVISION 22 SECTION "HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT."		L. PROVIDE ACCESS WHERE VALVES AND FITTINGS ARE NOT ACCESSIBLE. COORDINATE SIZE AND LOCATION OF ACCESS DOORS WITH ARCHITECT.	
d. SIZE: NPS 2-1/2 TO NPS 4		2. CONTROL INSTALLATION		M. INSTALL PIPING PENETRATING ROOFED AREAS TO MAINTAIN INTEGRITY OF ROOF ASSEMBLY.	
e. BODY: CAST IRON WITH INTERIOR LINING THAT COMPLIES WITH AWWA C550 OR THAT IS FDA APPROVED.		A. INSTALL IMMERSION-TYPE AQUASTATS IN HOT-WATER RETURN PIPING.		N. WHERE PIPE SUPPORT MEMBERS ARE WELDED TO STRUCTURAL BUILDING FRAMING, SCRAPE, BRUSH CLEAN, AND APPLY ONE COAT OF ZINC-RICH PRIMER TO WELDING.	
f. END CONNECTIONS: FLANGED.		INSTALL TIMERS.		O. BURIED ENDS OF ALL PIPE AND TUBING SHALL BE REAMED TO THE BORE OF THE PIPE OR TUBE AND ALL CHIPS SHALL BE REMOVED BEFORE INSTALLATION.	
g. CONFIGURATION: DESIGNED FOR (HORIZONTAL, STRAIGHT-THROUGH) (VERTICAL, INLET, HORIZONTAL-CENTER SECTION, ASD VERTICAL-OUTLET) (VERTICAL) FLOW.		CONNECTIONS		P. INSTALL BELL AND SPIGOT PIPE WITH BELL END UPSTREAM.	
h. ACCESSORIES:		A. PIPING INSTALLATION REQUIREMENTS ARE SPECIFIED IN OTHER DIVISION 22 SECTIONS, DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.		Q. SLEEVE PIPES PASSING THROUGH PARTITIONS, WALLS AND FLOORS.	
• VALVES: OUTSIDE-SCREW AND YOKE-GATE TYPE WITH FLANGED ENDS ON INLET AND OUTLE		INSTALL PUMPS TO ALLOW SERVICE AND MAINTENANCE.		R. SUPPORT CAST IRON DRAINAGE PIPING AT EVERY JOINT.	
• BYPASS WITH DISPLACEMENT-TYPE WATER METER, SHUTOFF VALVES, AND REDUCED-PRESSURE BACKFLOW PREVENTER.		CONNECT DOMESTIC WATER PIPING TO PUMPS. INSTALL SUCTION AND DISCHARGE PIPING EQUAL TO OR GREATER THAN SIZE OF PUMP NOZZLES. REFER TO DIVISION 22 SECTION "DOMESTIC WATER PIPING."		S. WATER TEST ALL PIPING PER CODE.	
1. TEMPERATURE-ACTUATED, WATER MIXING VALVES.		a. INSTALL SHUTOFF VALVE AND STRAINER ON SUCTION SIDE OF PUMPS, AND CHECK VALVE AND THROTTLING VALVE ON DISCHARGE SIDE OF PUMPS. INSTALL VALVES SAME SIZE AS CONNECTED PIPING. REFER TO DIVISION 22 SECTION "GENERAL-DUTY VALVES FOR PLUMBING PIPING" FOR GENERAL-DUTY VALVES FOR DOMESTIC WATER PIPING AND DIVISION 22 SECTION "DOMESTIC WATER PIPING SPECIALTIES" FOR STRAINERS.		T. INSULATE ALL ABOVE SLAB HORIZONTAL SANITARY WASTE PIPING CARRYING AIR-CONDITIONING CONDENSATE WITH MINIMUM 1" FIBERGLASS INSULATION WITH JACKET FROM FLOOR DRAIN, INCLUDING TRAPS, ALL THE WAY TO CHANGE IN DIRECTION TO VERTICAL.	
A. MANIFOLD THERMOSTATIC WATER MIXING-VALVE ASSEMBLIES		b. INSTALL PRESSURE GAGES AT SUCTION AND DISCHARGE OF PUMPS, REFER TO DIVISION 22 SECTION "METERS AND GAGES FOR PLUMBING PIPING" FOR PRESSURE GAGES AND GAGE CONNECTORS.		U. SLOPE ALL VENT PIPING TO ALLOW FOR DRAINAGE.	
a. DESCRIPTION: FACTORY-FABRICATED, (CABINET-TYPE), (EXPOSED MOUNTED), THERMOSTATICALLY CONTROLLED, WATER MIXING-VALVE ASSEMBLY IN (TWO) (THREE) VALVE PARALLEL ARRANGEMENT.		GROUND EQUIPMENT ACCORDING TO DIVISION 26 SECTION "GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS."		V. INSTALL A FLOOR CLEAN OUT ACCORDING TO THE FOLLOWING:	
b. LARGE FLOW PARALLEL: THERMOSTATIC WATER MIXING VALVE AND DOWNSTREAM-PRESSURE REGULATOR WITH PRESSURE GAGES ON INLET AND OUTLET.		ELECTRICAL SYSTEMS."		a. NOT MORE THAN 6" APART IN ALL HORIZONTAL DRAIN LINES.	
c. INTERMEDIATE-FLOW PARALLEL: THERMOSTATIC WATER MIXING VALVE AND DOWNSTREAM-PRESSURE REGULATOR WITH PRESSURE GAGES ON INLET AND OUTLET.		INTERLOCK PUMP WITH WATER HEATER BURNER AND TIME DELAY RELAY.		b. AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEG.	
d. SMALL FLOW PARALLEL: THERMOSTATIC WATER MIXING VALVE		1. PUMP INSTALLATION		c. AT THE BASE OF EACH WASTE OR SOIL STACK.	
e. THERMOSTATIC MIXING VALVE: COMPLY WITH ASSE 1017. INCLUDE CHECK STOPS ON HOT AND COLD WATER INLET AND SHUTOFF VALVE ON OUTLET.		A. COMPLY WITH ANSI H1.4.		W. PROVIDE AND INSTALL A FLOOR SINK NEXT TO EACH HVAC AIR HANDLING UNIT, PUMP, EXPANSION TANK, AND EVERY PIECE OF HVAC EQUIPMENT REQUIRING CONDENSATE REMOVAL IN EVERY MECHANICAL ROOM.	
f. WATER REGULATOR(S): COMPLY WITH ASSE 1003. INCLUDE PRESSURE GAGE ON INLET AND OUTLET.		INSTALL PUMPS WITH ACCESS FOR PERIODIC MAINTENANCE INCLUDING REMOVAL OF MOTORS, IMPELLERS, COUPLINGS, AND ACCESSORIES.		X. DRAINAGE-WASTE-VENT COPPER PIPE AND FITTINGS FOR WASTE STUB-OUTS FOR ALL FIXTURE LOCATIONS.	
g. PRESSURE RATING: 125 PSIG MINIMUM UNLESS OTHERWISE INDICATED.		INSTALL CLOSE-COUPLED, HORIZONTALLY MOUNTED, IN-LINE CENTRIFUGAL PUMPS WITH MOTOR AND PUMP SHAFTS HORIZONTAL.		4. RODDING SEWERS	
h. CABINET: FACTORY-FABRICATED, STAINLESS STEEL, FOR (RECESSED) (SURFACE) MOUNTED AND WITH HINGED STAINLESS STEEL DOOR.		INSTALL CONTINUOUS-THREAD HANGER RODS AND SPRING HANGERS WITH VERTICAL-LIMIT STOP OF SUFFICIENT SIZE TO SUPPORT PUMP WEIGHT. VIBRATION ISOLATION DEVICES ARE SPECIFIED IN DIVISION 22 SECTION "VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT."		A. ALL SANITARY SOIL AND WASTE LINES, BOTH IN THE BUILDING AND OUT, SHALL BE RODDED OUT AFTER COMPLETIONS OF THE INSTALLATION.	
i. TEMPERED-WATER SETTING: 120 DE F.		FABRICATE BRACKETS OR SUPPORTS AS REQUIRED. HANGER AND SUPPORT MATERIALS ARE SPECIFIED IN DIVISION 22 SECTION "HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT."		B. THIS WORK SHALL BE DONE, AS PART OF THE CONTRACT, TO MAKE CERTAIN THAT ALL LINES ARE CLEAR, AND ANY OBSTRUCTION THAT MAY BE DISCOVERED SHALL BE REMOVED IMMEDIATELY. RODDING SHALL BE ACCOMPLISHED BY UTILIZING A ROTARY CUTTER, WHICH SHALL BE FULL SIZE OF PIPE BEING CLEANED. RODDING OPERATIONS SHALL BE WITNESSED BY OWNER'S FIELD REPRESENTATIVE. SUBMIT A CERTIFICATE OF COMPLETION TO OWNER.	
j. THERMOSTATIC MIXING VALVE AND WATER REGULATOR FINISH: (CHROME PLATED) (POLISHED, CHROME PLATED) (ROUGH BRONZE).		2. CONTROL INSTALLATION		5. FIELD QUALITY CONTROL	
k. PIPING FINISH: (CHROME PLATED) (COPPER).		A. INSTALL IMMERSION-TYPE AQUASTATS IN HOT-WATER RETURN PIPING.		A. SEPARATE TRENCHES FOR WATER LINES, SANITARY, STORM, AND GAS PIPING.	
B. INDIVIDUAL FIXTURE WATER TEMPERING VALVE		INSTALL TIMERS.		B. PIPING SHALL BE LABELED ALONG ENTIRE LENGTH, INDICATING SIZE, CLASS, MATERIAL SPECIFICATION, MANUFACTURERS NAME, AND COUNTRY OF ORIGIN	
a. STANDARD: ASSE 1016, THERMOSTATICALLY CONTROL, WATER WATER TEMPERING VALVE.		CONNECTIONS		C. PIPING AND FITTINGS PASSING THROUGH PARTITIONS, WALLS AND FLOORS.	
b. PRESSURE RATING: 125 PSIG MINIMUM UNLESS OTHERWISE INDICATED.		A. PIPING INSTALLATION REQUIREMENTS ARE SPECIFIED IN OTHER DIVISION 22 SECTIONS, DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.		D. TEMPORARY END CAPS AND CLOSURES ON PIPING AND FITTINGS.	
c. BODY: BRONZE BODY WITH CORROSION-RESISTANT EXTERIOR COMPONENTS.		INSTALL PUMPS TO ALLOW SERVICE AND MAINTENANCE.		E. FOREIGN PIPE AND FITTINGS UNACCEPTABLE.	
d. TEMPERATURE CONTROL: ADJUSTABLE.		CONNECT DOMESTIC WATER PIPING TO PUMPS. INSTALL SUCTION AND DISCHARGE PIPING EQUAL TO OR GREATER THAN SIZE OF PUMP NOZZLES. REFER TO DIVISION 22 SECTION "DOMESTIC WATER PIPING."		F. PRIOR TO COVER UP WATER PIPE, SANITARY PIPE, AND GAS PIPING SHALL BE PRESSURE TESTED. TESTS SHALL BE WITNESSED BY CONSULTANT AND OWNER. NOTIFY OWNER 48 HOURS PRIOR TO TEST. TEST SHALL BE WITNESSED BY CLIENT PLUMBING TECHNICIAN.	
e. INLET AND OUTLET: THREADED OR COMPRESSION FITTING.		a. INSTALL SHUTOFF VALVE AND STRAINER ON SUCTION SIDE OF PUMPS, AND CHECK VALVE AND THROTTLING VALVE ON DISCHARGE SIDE OF PUMPS. INSTALL VALVES SAME SIZE AS CONNECTED PIPING. REFER TO DIVISION 22 SECTION "GENERAL-DUTY VALVES FOR PLUMBING PIPING" FOR GENERAL-DUTY VALVES FOR DOMESTIC WATER PIPING AND DIVISION 22 SECTION "DOMESTIC WATER PIPING SPECIALTIES" FOR STRAINERS.		G. THE INSIDE OF ALL SANITARY LINES SHALL BE VIDEO RECORDED WITH A CAMERA AND WITNESSED BY OWNER TO FIRST OUTSIDE MANHOLE. PROVIDE TAPE AND/OR DVD UPON CLOSURE OF PROJECT. IF ANY OBSTRUCTIONS ARE FOUND THEY SHALL BE REMOVED AND THE LINE SHALL BE VIDEOED AGAIN TO SHOW THE BLOCKAGE HAS BEEN CLEARED.	
f. FINISHED: ROUGH OR CHROME-PLATED BRONZE.		b. INSTALL PRESSURE GAGES AT SUCTION AND DISCHARGE OF PUMPS, REFER TO DIVISION 22 SECTION "METERS AND GAGES FOR PLUMBING PIPING" FOR PRESSURE GAGES AND GAGE CONNECTORS.		H. FOR ADDITIONS AND RENOVATIONS, USE CAMERA TO LOCATE ROUTING OF UNDERSLAB LINES.	
g. TEMPERED-WATER SETTING: (INSERT DEG F).		GROUND EQUIPMENT ACCORDING TO DIVISION 26 SECTION "GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS."		I. UPON COMPLETION OF THE SANITARY PIPING SYSTEM, THE CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER TO OBSERVE A SMOKE TEST OF THE SYSTEM. SMOKE TESTING SHALL BE PERFORMED ON SANITARY PIPING SYSTEM TWICE DURING CONSTRUCTION.	
h. TEMPERED-WATER DESIGN FLOW RATE: (INSERT GPM).		ELECTRICAL SYSTEMS."		J. DURING INSTALLATION, NOTIFY AUTHORITIES HAVING JURISDICTION AT LEAST 24 HOURS BEFORE INSPECTION MUST BE MADE. PERFORM TESTS SPECIFIED BELOW IN PRESENCE OF AUTHORITIES HAVING JURISDICTION.	
C. CLOTHES WASHER OULET BOXES		INTERLOCK PUMP WITH WATER HEATER BURNER AND TIME DELAY RELAY.		a. ROUGHING-IN INSPECTION: ARRANGE FOR INSPECTION OF PIPING BEFORE CONCEALING OR CLOSING-IN AFTER ROUGHING-IN AND BEFORE SETTING FIXTURES.	
a. MOUNTED: RECESSED.		1. PUMP INSTALLATION		b. FINAL INSPECTION: INSPECTION BY AUTHORITIES HAVING JURISDICTION TO OBSERVE TESTS SPECIFIED BELOW AND TO ENSURE COMPLIANCE WITH REQUIREMENTS.	
b. MATERIAL AND FINISH: (ENAMELED-STEEL, OR EPOXY-PAINTED STEEL) (ENAMELED STEEL, EPOXY-PAINTED STEEL, OR PLASTIC) (PLASTIC) (STAINLESS STEEL) BOX AND FACEPLATE.		A. COMPLY WITH ANSI H1.4.		K. REINSPECTION: IF AUTHORITIES HAVING JURISDICTION FIND THAT PIPING WILL NOT PASS TEST OR INSPECTION, MAKE REQUIRED CORRECTIONS AND ARRANGE FOR REINSPECTION.	
c. FAUCET: COMBINATION VALVE FITTING OR SEPARATE HOT AND COLD WATER VALVE FITTING COMPLYING WITH ASME A112.18.1. INCLUDE GARDEN-HOSE THREAD COMPLYING WITH ASME B120.7 ON OUTLET.		INSTALL PUMPS WITH ACCESS FOR PERIODIC MAINTENANCE INCLUDING REMOVAL OF MOTORS, IMPELLERS, COUPLINGS, AND ACCESSORIES.		J. REPORTS: PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AUTHORITIES HAVING JURISDICTION.	
d. SUPPLY SHUTOFF FITTING: NPS 1/2 BALL VALVES AND NPS 1/2 COPPER WATER TUBING.		INSTALL CLOSE-COUPLED, HORIZONTALLY MOUNTED, IN-LINE CENTRIFUGAL PUMPS WITH MOTOR AND PUMP SHAFTS HORIZONTAL.			
e. DRAIN: NPS 2 STANDPIPE AND P-TRAP FOR DRECT WASTE CONNECTION TO DRAINAGE PIPING.		INSTALL CONTINUOUS-THREAD HANGER RODS AND SPRING HANGERS WITH VERTICAL-LIMIT STOP OF SUFFICIENT SIZE TO SUPPORT PUMP WEIGHT. VIBRATION ISOLATION DEVICES ARE SPECIFIED IN DIVISION 22 SECTION "VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT."			
f. INLET HOSE: TWO 60-INCH LONG, RUBBER HOUSEHOLD CLOTHES WASHER INLET HOSE WITH FEMALE, GARDEN-HOSE THREAD COUPLING, INCLUDE RUBBER WASHER.		FABRICATE BRACKETS OR SUPPORTS AS REQUIRED. HANGER AND SUPPORT MATERIALS ARE SPECIFIED IN DIVISION 22 SECTION "HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT."			
g. DRAIN HOSE: ONE 48-INCH LONG, RUBBER HOUSEHOLD CLOTHES WASHER DRAIN HOSE WITH HOOKED END.		2. CONTROL INSTALLATION			
D. ICEMAKER OUTLET BOXES		A. INSTALL IMMERSION-TYPE AQUASTATS IN HOT-WATER RETURN PIPING.			
a. MOUNTED: RECESSED.		INSTALL TIMERS.			
b. MATERIAL AND FINISH: (ENAMELED-STEEL, OR EPOXY-PAINTED STEEL) (ENAMELED STEEL, EPOXY-PAINTED STEEL, OR PLASTIC) (PLASTIC) (STAINLESS STEEL) BOX AND FACEPLATE.		CONNECTIONS			
c. FAUCET: VALVED FITTING COMPLYING WITH ASME A112.18.1. INCLUDE NPS 1/2 OR SMALL COPPER TUBE OUTLET.		A. PIPING INSTALLATION REQUIREMENTS ARE SPECIFIED IN OTHER DIVISION 22 SECTIONS, DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.			
d. SUPPLY SHUTOFF FITTING: NPS 1/2 BALL VALVE AND NPS 1/2 COPPER WATER TUBING		INSTALL PUMPS TO ALLOW SERVICE AND MAINTENANCE.			
E. HOSE BIBB		CONNECT DOMESTIC WATER PIPING TO PUMPS. INSTALL SUCTION AND DISCHARGE PIPING EQUAL TO OR GREATER THAN SIZE OF PUMP NOZZLES. REFER TO DIVISION 22 SECTION "DOMESTIC WATER PIPING."			
a. STANDARD: ASTM A112.18.1 FOR SEDIMENT FAUCETS.		a. INSTALL SHUTOFF VALVE AND STRAINER ON SUCTION SIDE OF PUMPS, AND CHECK VALVE AND THROTTLING VALVE ON DISCHARGE SIDE OF PUMPS. INSTALL VALVES SAME SIZE AS CONNECTED PIPING. REFER TO DIVISION 22 SECTION "GENERAL-DUTY VALVES FOR PLUMBING PIPING" FOR GENERAL-DUTY VALVES FOR DOMESTIC WATER PIPING AND DIVISION 22 SECTION "DOMESTIC WATER PIPING SPECIALTIES" FOR STRAINERS.			
b. BODY MATERIAL: BRONZE.		b. INSTALL PRESSURE GAGES AT SUCTION AND DISCHARGE OF PUMPS, REFER TO DIVISION 22 SECTION "METERS AND GAGES FOR PLUMBING PIPING" FOR PRESSURE GAGES AND GAGE CONNECTORS.			
c. SEAT: BRONZE, REPLACEABLE.		GROUND EQUIPMENT ACCORDING TO DIVISION 26 SECTION "GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS."			
d. SUPPLY CONNECTIONS: NPS 1/2 OR NPS 3/4 THREADED OR SOLDER-JOINT INLET		ELECTRICAL SYSTEMS."			
e. OUTLET CONNECTION: GARDEN-HOSE THREAD COMPLYING WITH ASME B1.20.7		INTERLOCK PUMP WITH WATER HEATER BURNER AND TIME DELAY RELAY.			
f. PRESSURE RATING: 125 PSIG.		1. PUMP INSTALLATION			
g. VACUUM BREAKER: INTEGRAL, NONREMOVABLE, DRAINABLE, HOSE-CONNECTION VACUUM BREAKER COMPLYING WITH ASSE 1011.		A. COMPLY WITH ANSI H1.4.			
h. FINISH FOR EQUIPMENT ROOMS: ROUGH BRONZE, CHROME OR NICKEL PLATED.		INSTALL PUMPS WITH ACCESS FOR PERIODIC MAINTENANCE INCLUDING REMOVAL OF MOTORS, IMPELLERS, COUPLINGS, AND ACCESSORIES.			
i. FINISH FOR SERVICE AREAS: ROUGH BRONZE, CHROME OR NICKEL PLATED.		INSTALL CLOSE-COUPLED, HORIZONTALLY MOUNTED, IN-LINE CENTRIFUGAL PUMPS WITH MOTOR AND PUMP SHAFTS HORIZONTAL.			
j. OPERATION FOR EQUIPMENT ROOMS: WHEEL HANDLE OR OPERATING KEY.		INSTALL CONTINUOUS-THREAD HANGER RODS AND SPRING HANGERS WITH VERTICAL-LIMIT STOP OF SUFFICIENT SIZE TO SUPPORT PUMP WEIGHT. VIBRATION ISOLATION DEVICES ARE SPECIFIED IN DIVISION 22 SECTION "VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT."			
k. OPERATION FOR SERVICE AREAS: WHEEL HANDLE OR OPERATING KEY.		FABRICATE BRACKETS OR SUPPORTS AS REQUIRED. HANGER AND SUPPORT MATERIALS ARE SPECIFIED IN DIVISION 22 SECTION "HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT."			
l. INCLUDE OPERATING KEY WITH EACH OPERATING KEY HOSE BIBB.		2. CONTROL INSTALLATION			
m. INCLUDE INTEGRAL WALL FLANGE WITH EACH CHROME OR NICKEL PLATED HOSE BIBB.		A. INSTALL IMMERSION-TYPE AQUASTATS IN HOT-WATER RETURN PIPING.			
		INSTALL TIMERS.			
		CONNECTIONS			
		A. PIPING INSTALLATION REQUIREMENTS ARE SPECIFIED IN OTHER DIVISION 22 SECTIONS, DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.			
		INSTALL PUMPS TO ALLOW SERVICE AND MAINTENANCE.			
		CONNECT DOMESTIC WATER PIPING TO PUMPS. INSTALL SUCTION AND DISCHARGE PIPING EQUAL TO OR GREATER THAN SIZE OF PUMP NOZZLES. REFER TO DIVISION 22 SECTION "DOMESTIC WATER PIPING."			
		a. INSTALL SHUTOFF VALVE AND STRAINER ON SUCTION SIDE OF PUMPS, AND CHECK VALVE AND THROTTLING VALVE ON DISCHARGE SIDE OF PUMPS. INSTALL VALVES SAME SIZE AS CONNECTED PIPING. REFER TO DIVISION 22 SECTION "GENERAL-DUTY VALVES FOR PLUMBING PIPING" FOR GENERAL-DUTY VALVES FOR DOMESTIC WATER PIPING AND DIVISION 22 SECTION "DOMESTIC WATER PIPING SPECIALTIES" FOR STRAINERS.			
		b. INSTALL PRESSURE GAGES AT SUCTION AND DISCHARGE OF PUMPS, REFER TO DIVISION 22 SECTION "METERS AND GAGES FOR PLUMBING PIPING" FOR PRESSURE GAGES AND GAGE CONNECTORS.			
		GROUND EQUIPMENT ACCORDING TO DIVISION 26 SECTION "GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS."			
		ELECTRICAL SYSTEMS."			
		INTERLOCK PUMP WITH WATER HEATER BURNER AND TIME DELAY RELAY.			
		1. PUMP INSTALLATION			
		A. COMPLY WITH ANSI H1.4.			
		INSTALL PUMPS WITH ACCESS FOR PERIODIC MAINTENANCE INCLUDING REMOVAL OF MOTORS, IMPELLERS, COUPLINGS, AND ACCESSORIES.			
		INSTALL CLOSE-COUPLED, HORIZONTALLY MOUNTED, IN-LINE CENTRIFUGAL PUMPS WITH MOTOR AND PUMP SHAFTS HORIZONTAL.			
		INSTALL CONTINUOUS-THREAD HANGER RODS AND SPRING HANGERS WITH VERTICAL-LIMIT STOP OF SUFFICIENT SIZE TO SUPPORT PUMP WEIGHT. VIBRATION ISOLATION DEVICES ARE SPECIFIED IN DIVISION 22 SECTION "VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT."			
		FABRICATE BRACKETS OR SUPPORTS AS REQUIRED. HANGER AND SUPPORT MATERIALS ARE SPECIFIED IN DIVISION 22 SECTION "HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT."			
		2. CONTROL INSTALLATION			
		A. INSTALL IMMERSION-TYPE AQUASTATS IN HOT-WATER RETURN PIPING.			
		INSTALL TIMERS.			
		CONNECTIONS			
		A. PIPING INSTALLATION REQUIREMENTS ARE SPECIFIED IN OTHER DIVISION 22 SECTIONS, DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.			
		INSTALL PUMPS TO ALLOW SERVICE AND MAINTENANCE.			
		CONNECT DOMESTIC WATER PIPING TO PUMPS. INSTALL SUCTION AND DISCHARGE PIPING EQUAL TO OR GREATER THAN SIZE OF PUMP NOZZLES. REFER TO DIVISION 22 SECTION "DOMESTIC WATER PIPING."			
		a. INSTALL SHUTOFF VALVE AND STRAINER ON SUCTION SIDE OF PUMPS, AND CHECK VALVE AND THROTTLING VALVE ON DISCHARGE SIDE OF PUMPS. INSTALL VALVES SAME SIZE AS CONNECTED PIPING. REFER TO DIVISION 22 SECTION "GENERAL-DUTY VALVES FOR PLUMBING PIPING" FOR GENERAL-DUTY VALVES FOR DOMESTIC WATER PIPING AND DIVISION 22 SECTION "DOMESTIC WATER PIPING SPECIALTIES" FOR STRAINERS.			



KEYNOTES	
KEYNOTE	DESCRIPTION
1	2" SANITARY UP
2	2" SANITARY UP
3	2" VENT UP
4	4" SANITARY UP
5	2-1/2" CW UP
6	2-1/2" CW (83 GPM) SEE CIVIL FOR CONTINUATION
7	4" SANITARY I.E. = 4.00' SEE CIVIL FOR CONTINUATION
8	4" SANITARY UP TO 2-WAY CLEANOUT
9	4" FW UP
10	4" FW REFER TO CIVIL DWGS FOR CONTINUATION

1 PLUMBING UNDERFLOOR
3/16" = 1'-0" TRUE NORTH



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Weed Corley Fish
Vista Ridge and Bagdad Rd.
Leander, TX 78641

N-VIZION
FORMS • ENVIRONMENTS • IMAGES

PLUMBING UNDERFLOOR PLAN
Project Number: 230502
Nvizion Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration Nos. TX PE Firm F-12229, TX S498, LA 9413 MI,
1331065591, NV 8252, NC 14863, OH ARC-1817885

Date	Description	Rev	Permit Set
10-15-24	IFP		
10-25-24	Rev 1 Permit Set		

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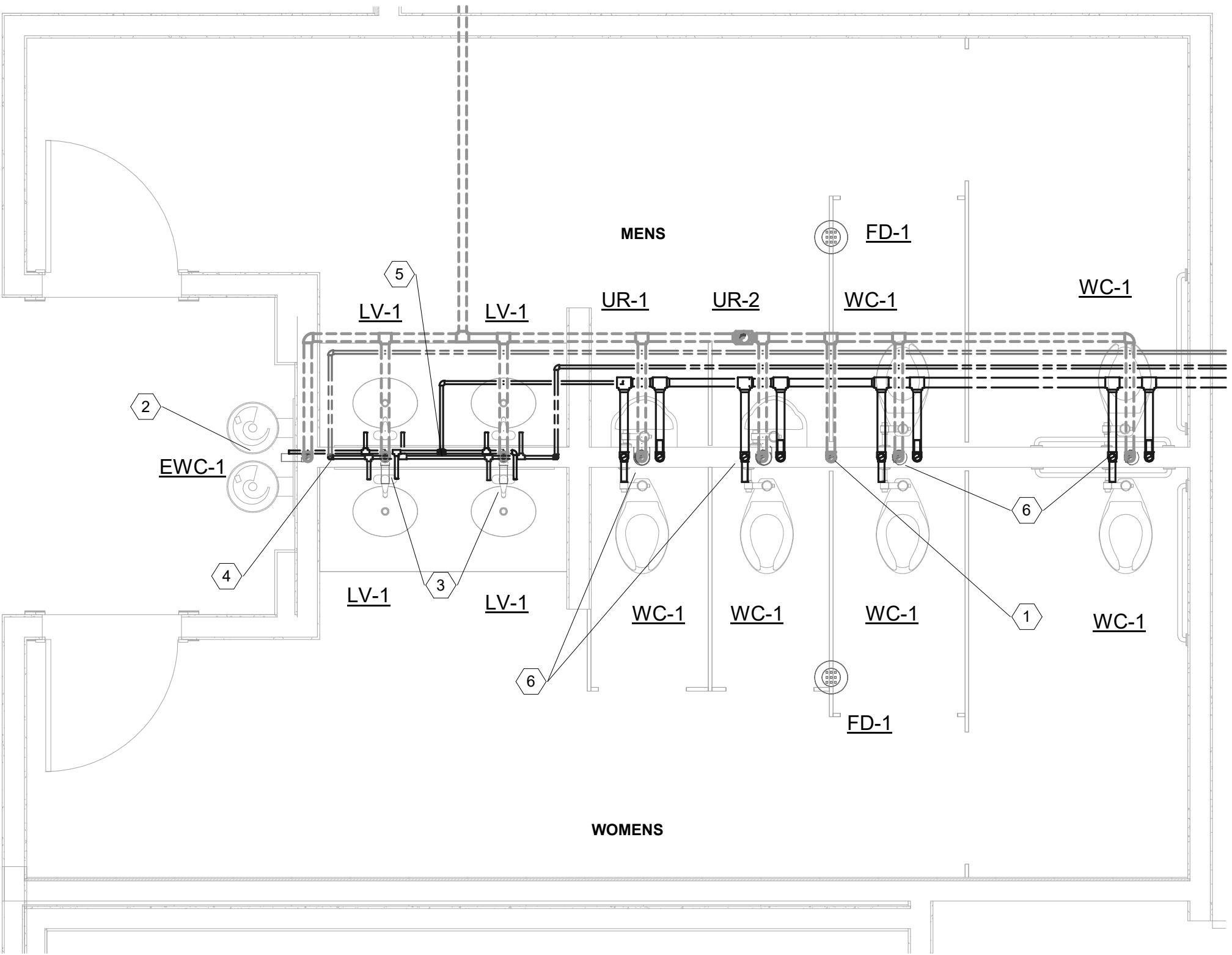
N-vizion Design, LLC - 5900 Shepherd Mountain Cove, Ste. 2-230
Austin, TX 78730 p:512.327.9995 www.n-vizion.net
Registration Nos.: TX PE Firm:F-12229, TX:25489, LA: 9413 MI:
1301069591, NV: 8252, NC: 14883, OH: ARC.1917885

Date	Description
10-15-24	IFP
10-25-24	Rev1 Permit Set
04-23-25	CITY COMMENTS



TBPE Registration Number: 18865
 5316 Hwy. 290 Service Rd., Suite 130
 Austin, TX 78735
 512-692-9224
www.infinitymep.com

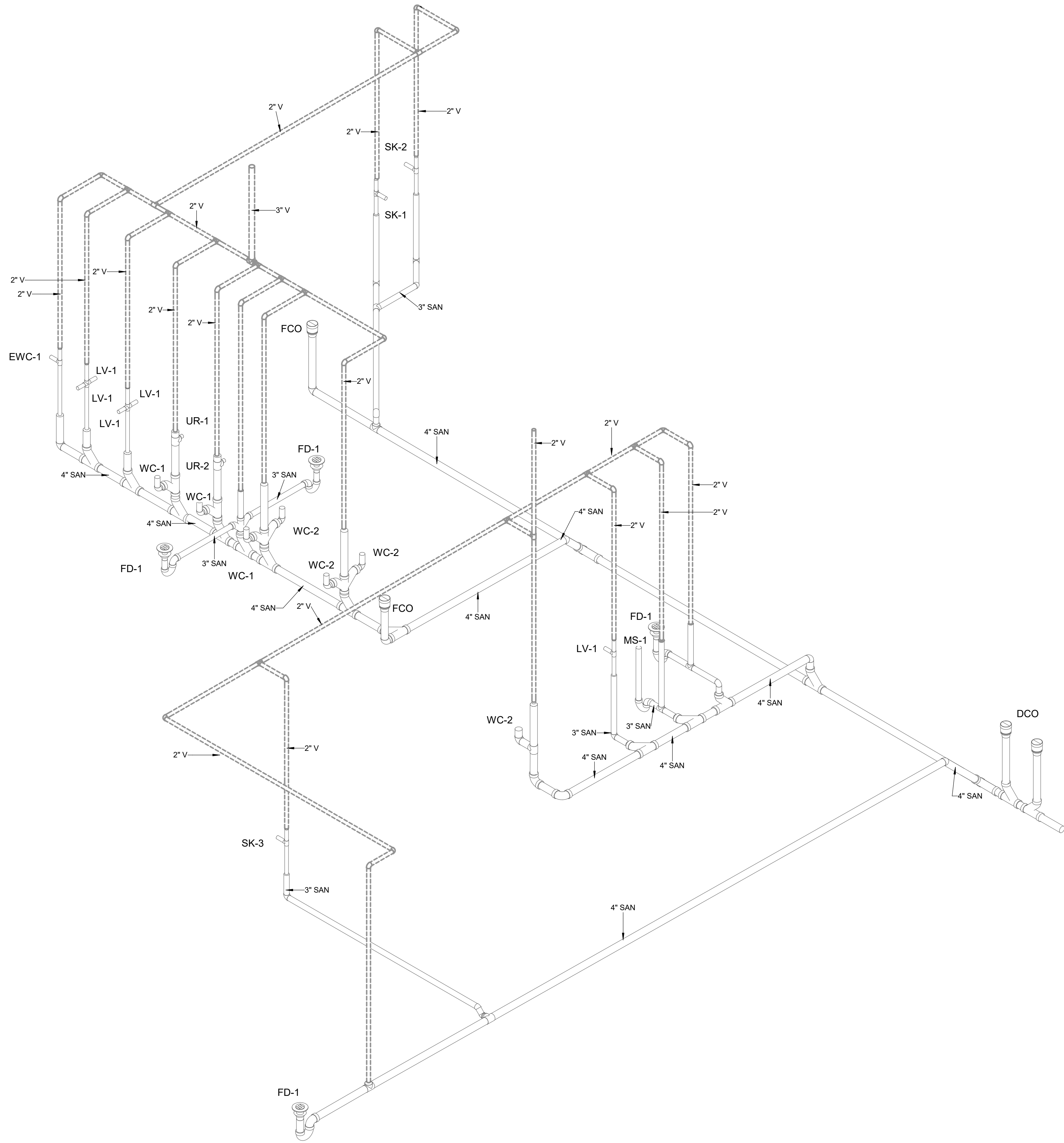
KEYNOTES	
KEYNOTE	DESCRIPTION
1	2" VENT DOWN
2	3/4" CW AND 2" VENT DOWN
3	2" VENT DOWN, FEED BOTH FIXTURES FROM HW CW HORIZONTAL
4	3/4" HW DOWN
5	3/4" CW DOWN
6	1-1/2" CW AND 2" VENT DOWN



1 ENLARGED PLUMBING PLAN
3/8" = 1'-0" TRUE NORTH

Date	Description
10-15-24	IFP
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1 PLUMBING RISER - SANITARY & VENT



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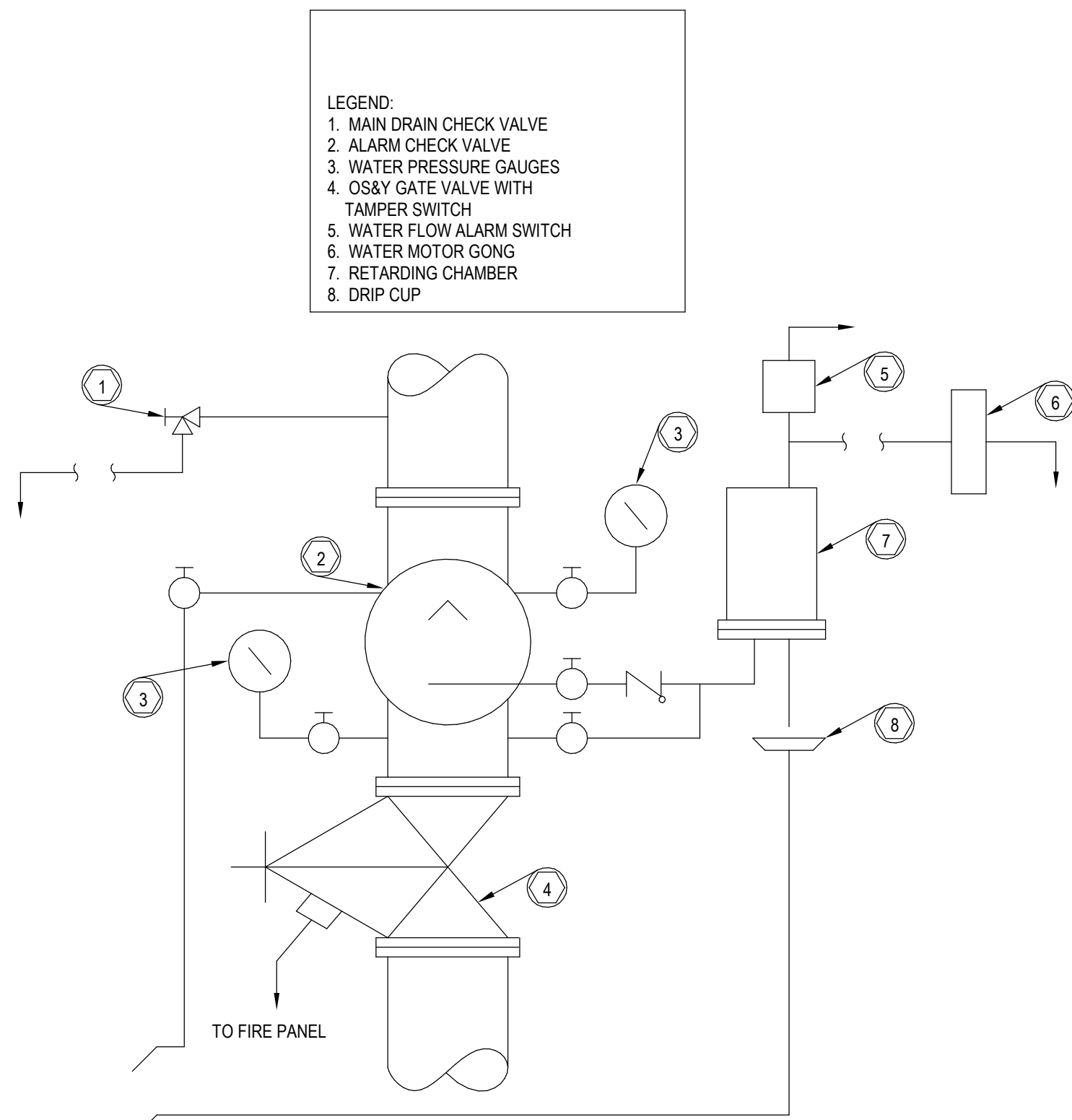
Weed Corley Fish
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Leander, TX 78641

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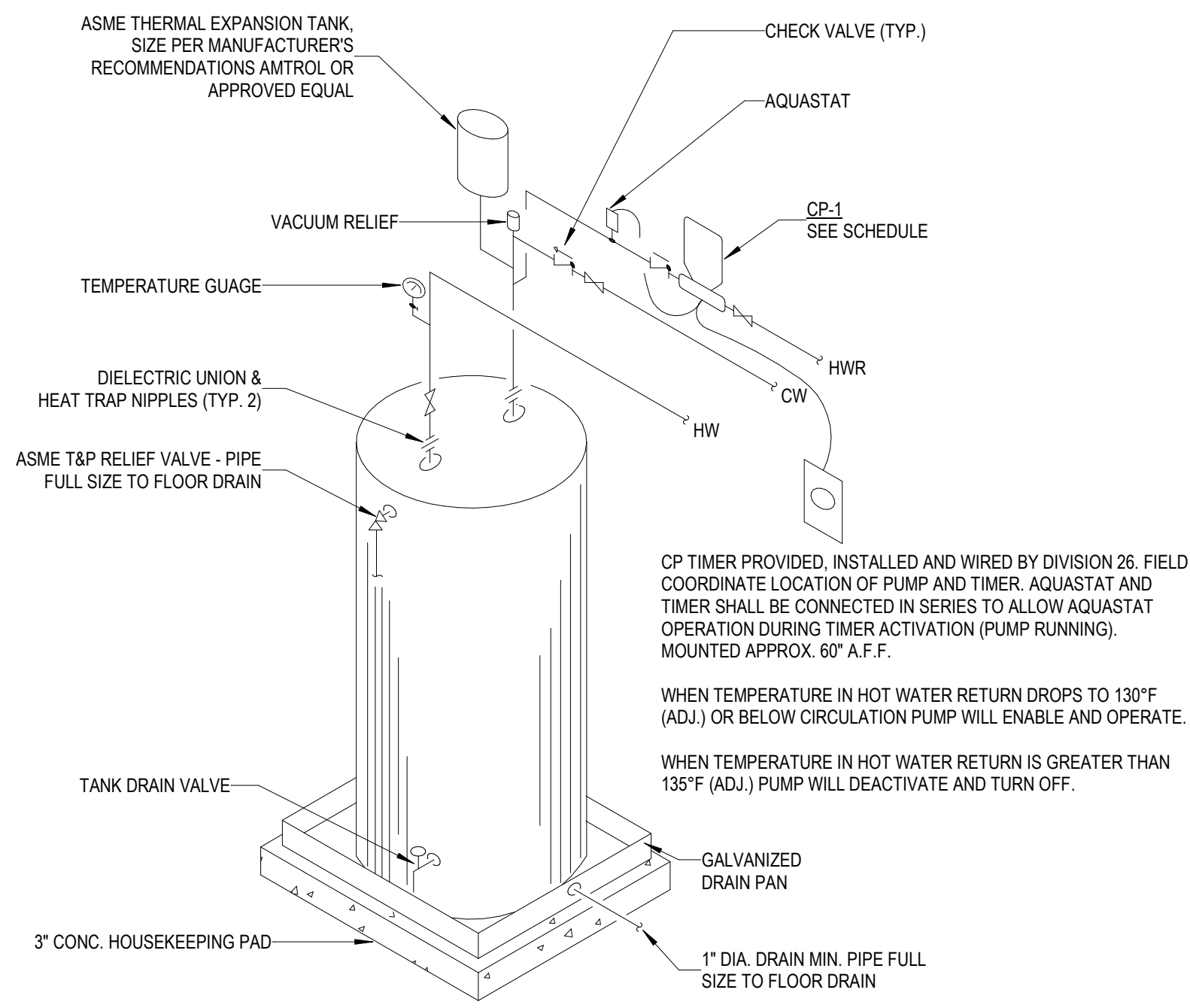
PLUMBING RISERS
Project Number: 230502
N-vizion Design, LLC - 5600 Shepherd Mountain Cove, Ste. 2-250
Austin, TX 78735
Registration Nos. TX: PE Firm F-2229, TX: 25498, LA: 9413 MI,
1331066591, NV: 8262, NC: 14863, OH: ARC-1817885

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10-15-24	IFP
10-25-24	Rev 1 Permit Set

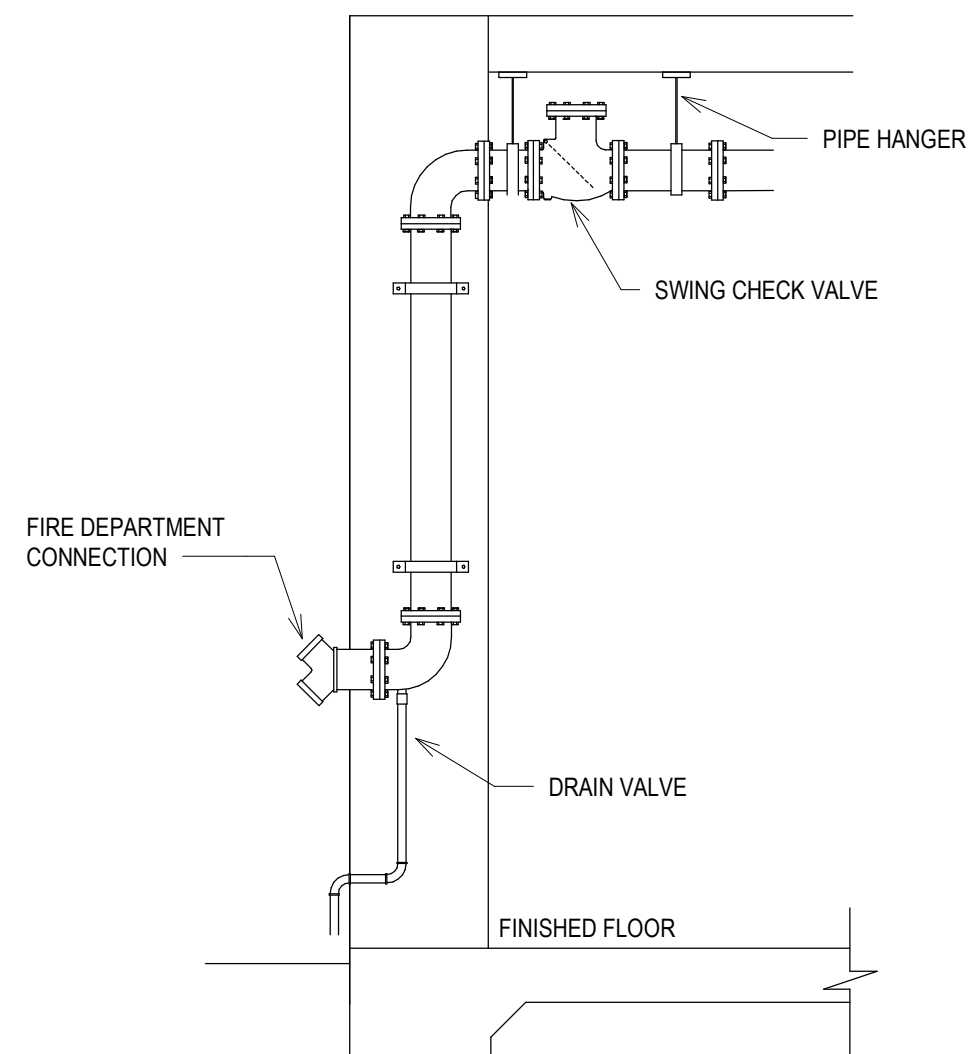
13 ALARM CHECK VALVE DETAIL1
NOT TO SCALE



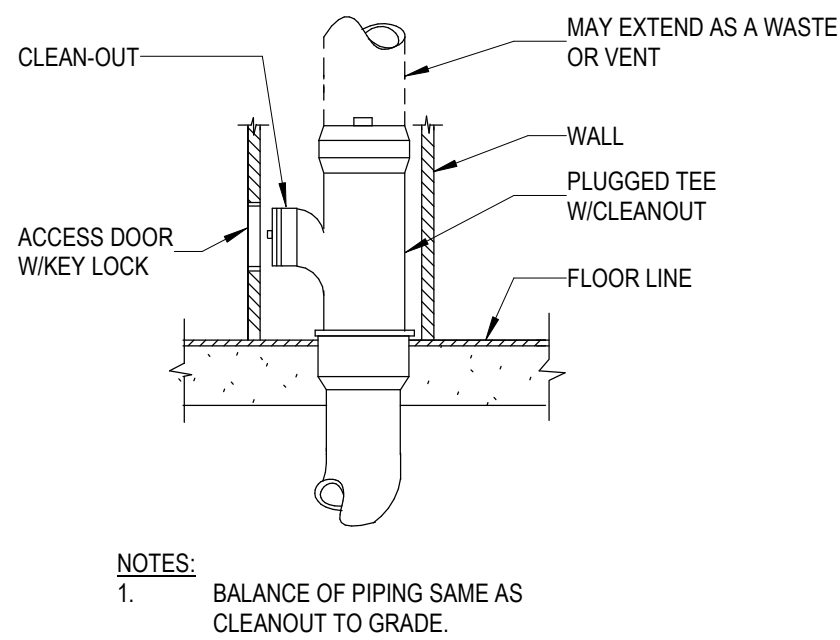
10 ELECTRIC WATER HEATER W/ HOUSEKEEPING PAD DETAIL
NOT TO SCALE



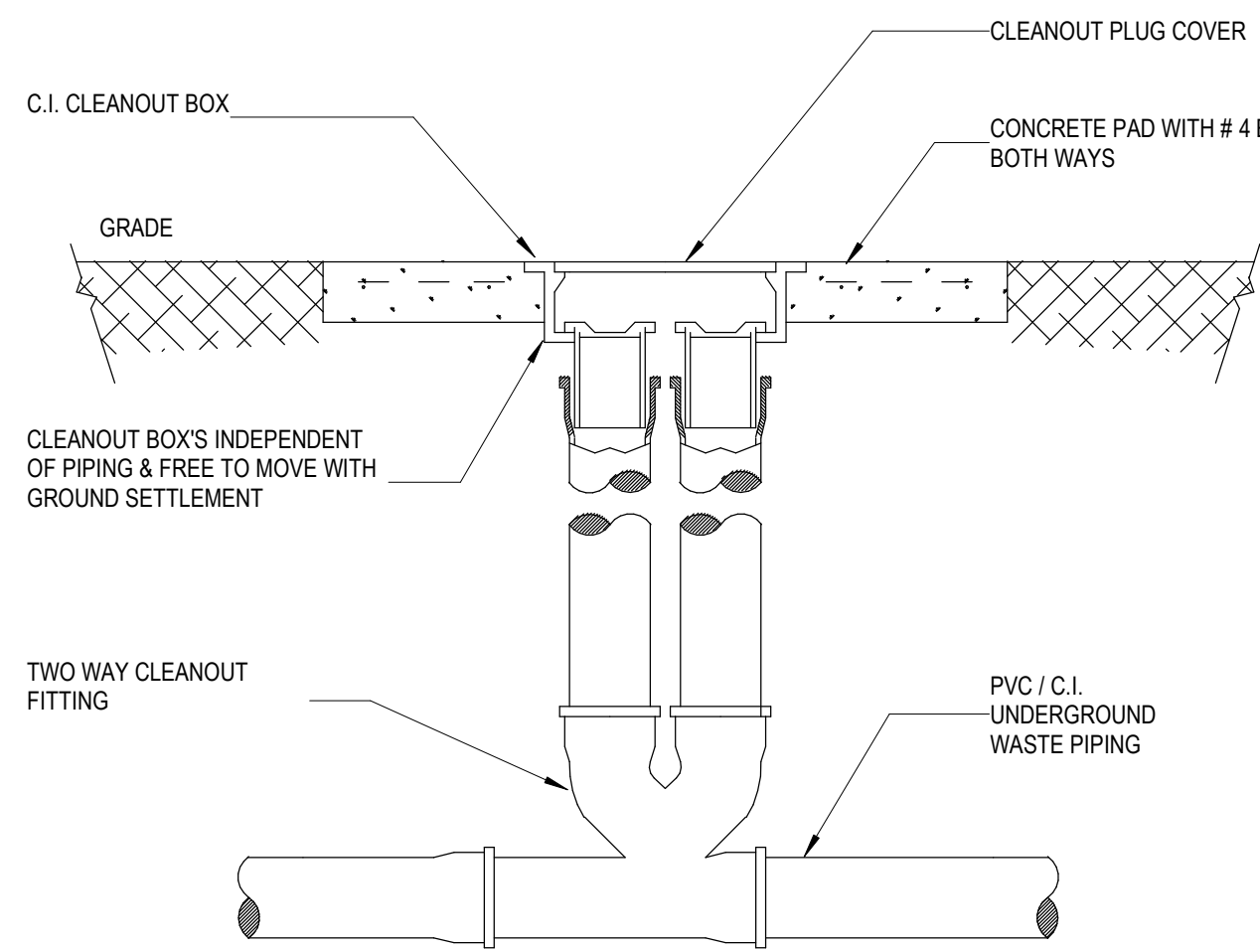
11 FIRE DEPARTMENT CONNECTION
DETAIL
1/8\" = 1'-0\"



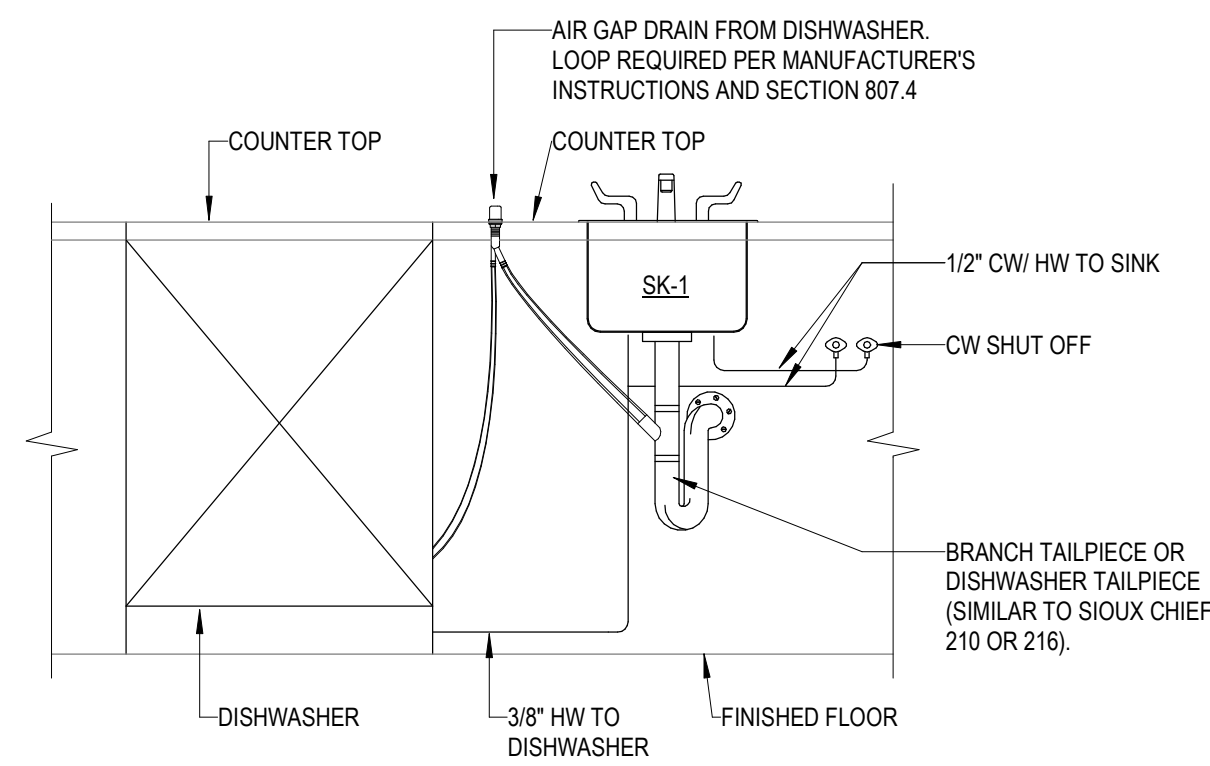
12 WALL CLEANOUT DETAIL
NOT TO SCALE



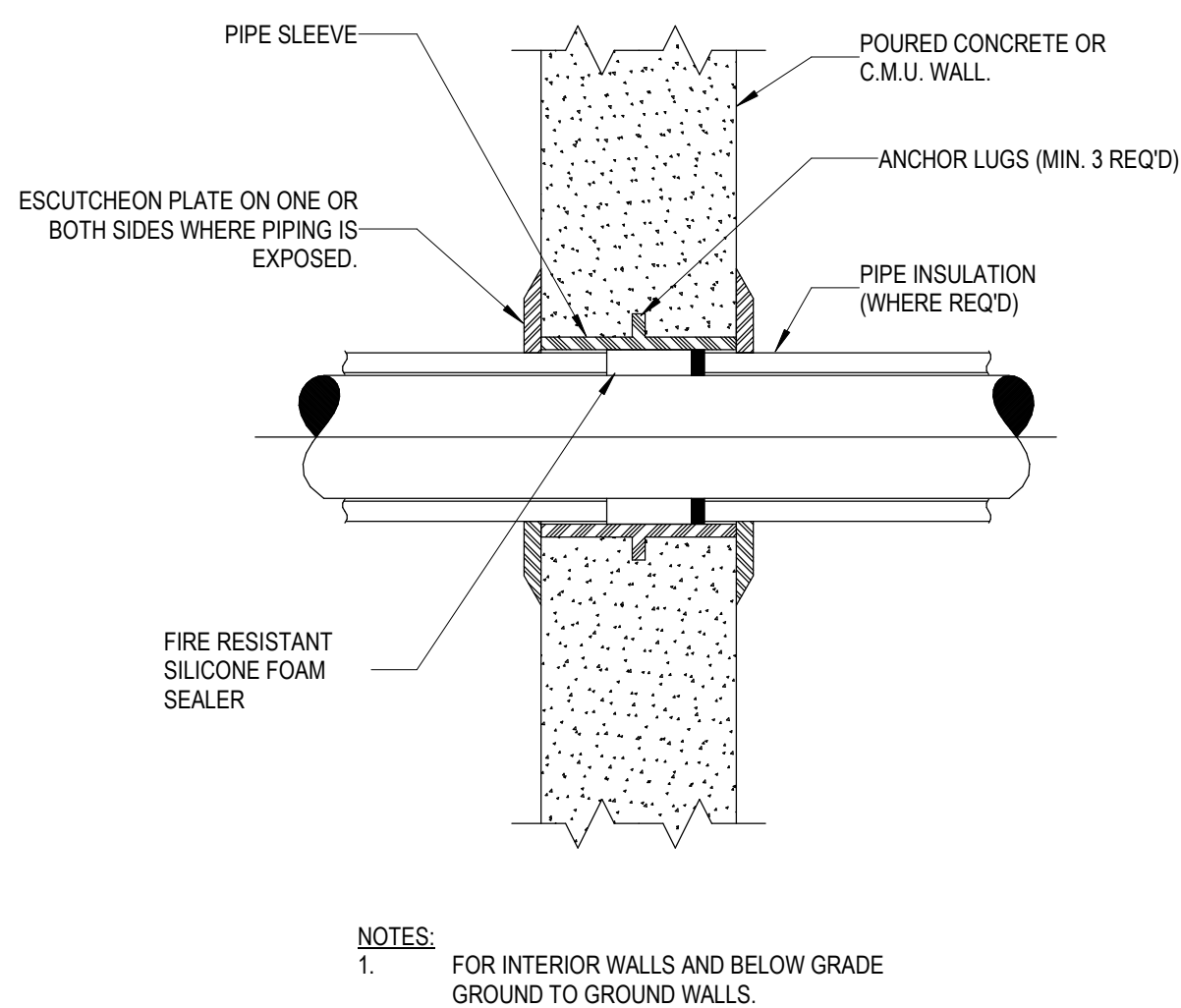
6 TWO-WAY EXTERIOR CLEANOUT
NOT TO SCALE



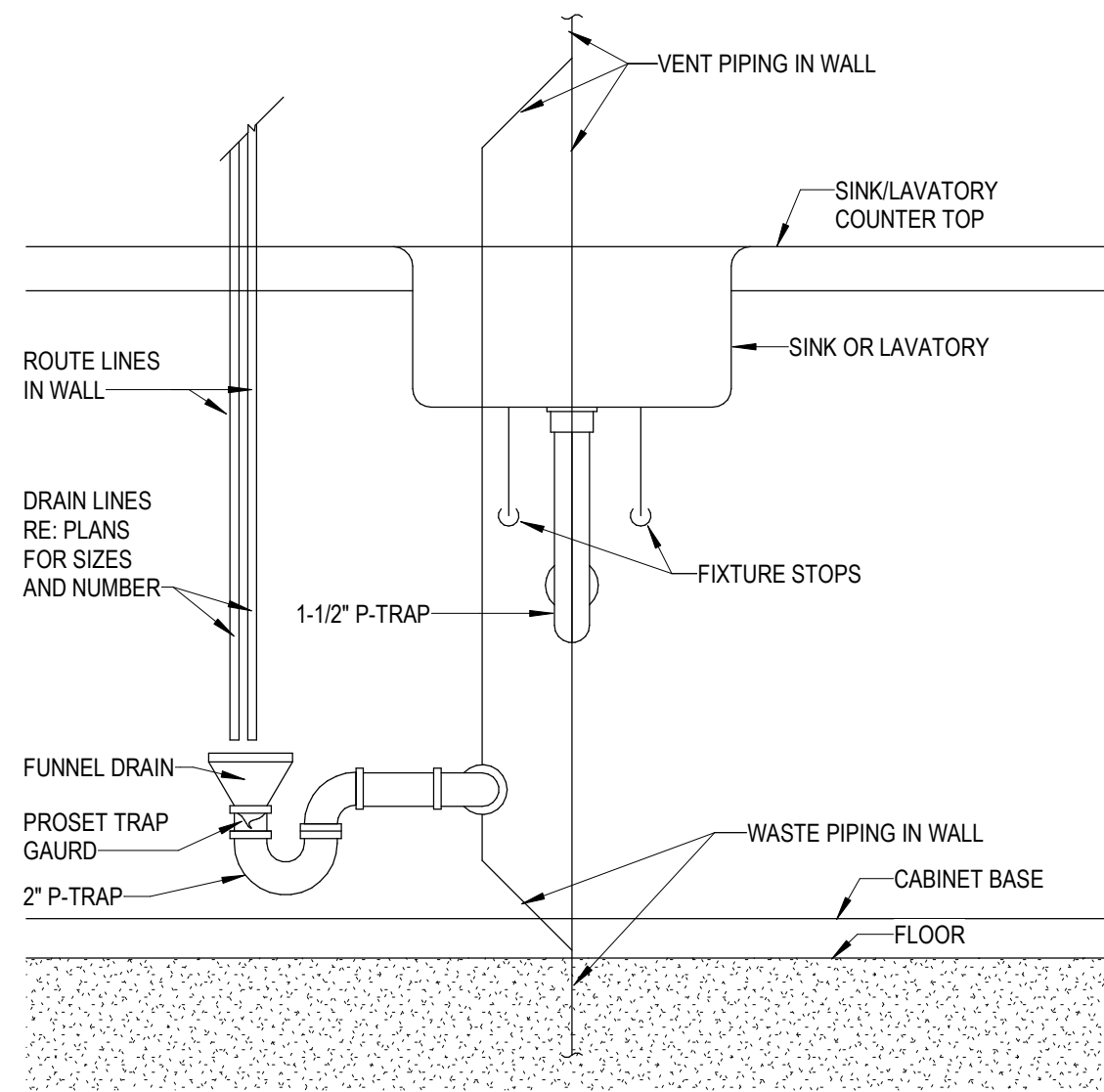
7 DISHWASHER DRAIN TO SINK DETAIL
NOT TO SCALE



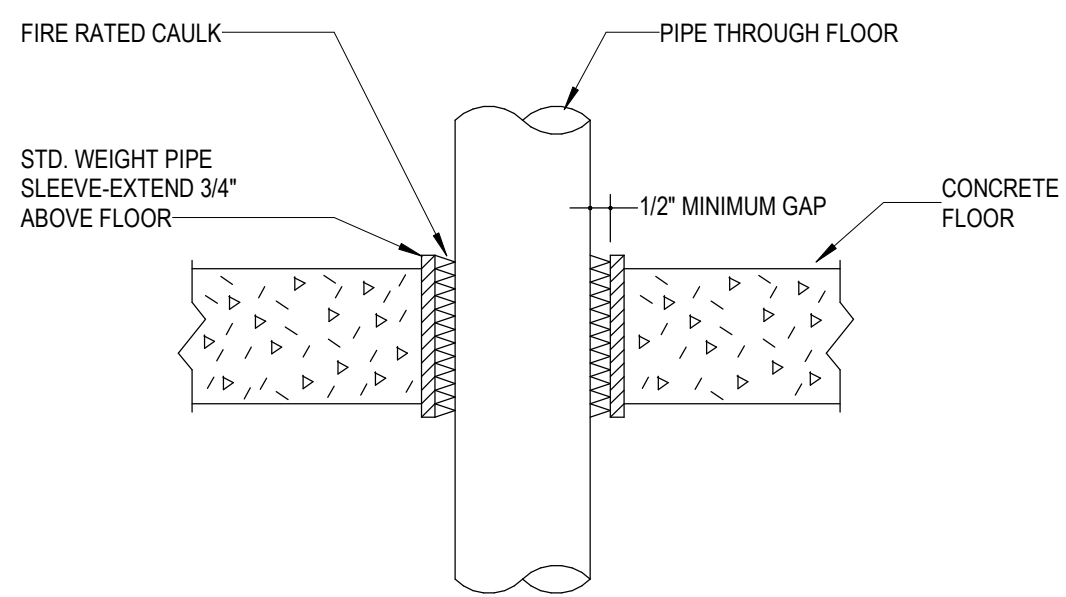
8 PIPE SLEEVE THROUGH WALL DETAIL
NOT TO SCALE



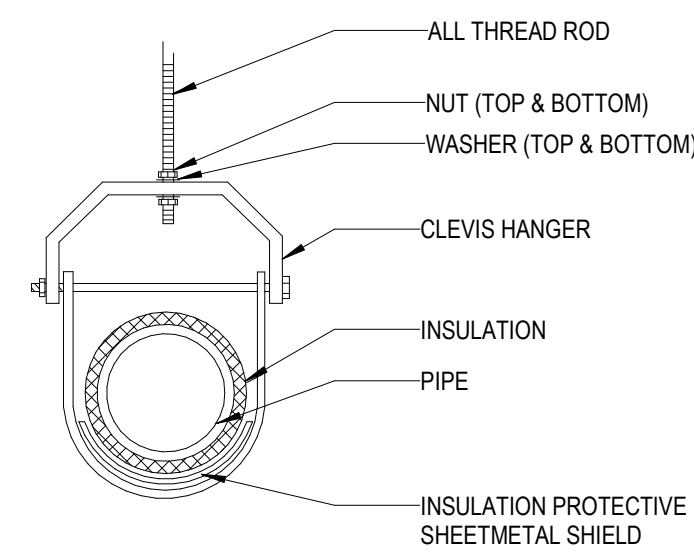
9 INDIRECT RECEPTOR DETAIL
NOT TO SCALE



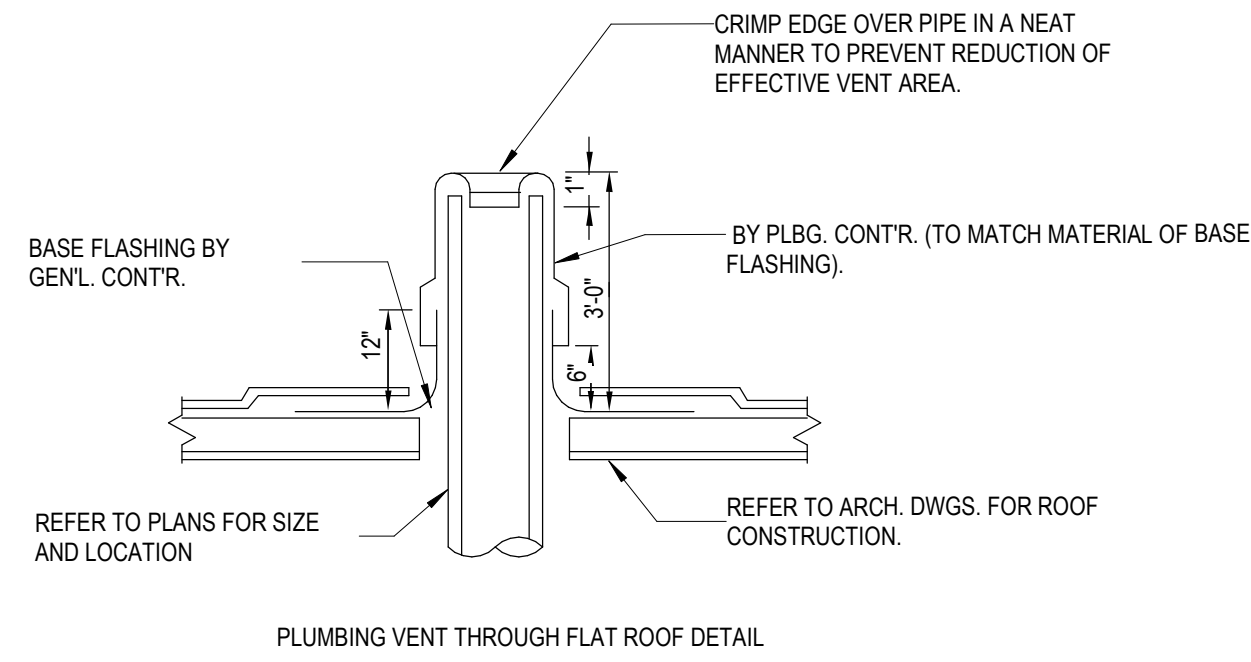
1 PIPE SLEEVE THROUGH FLOOR DETAIL
NOT TO SCALE



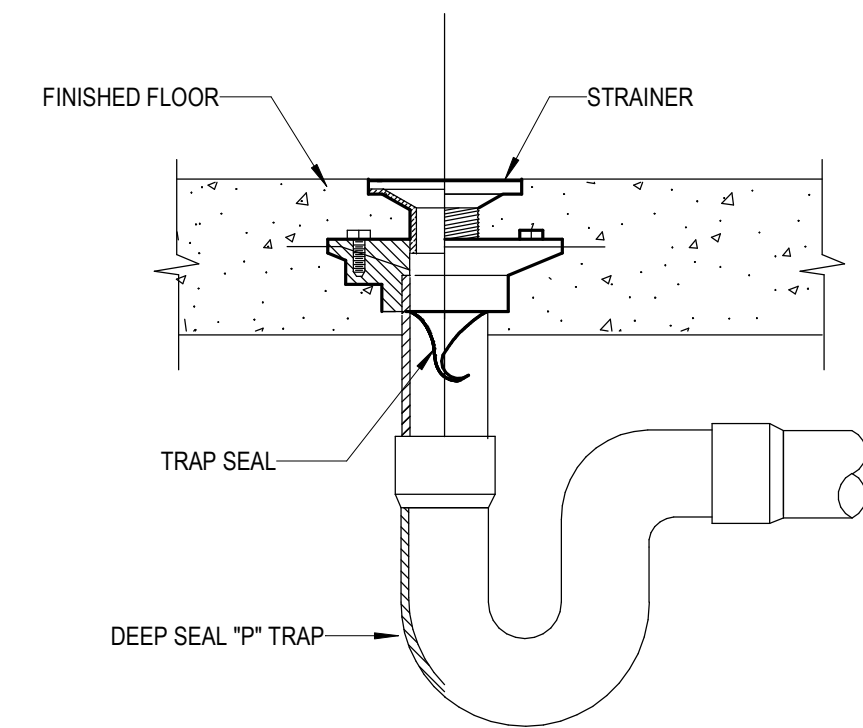
2 TYPICAL CLEVIS HANGER DETAIL
NOT TO SCALE



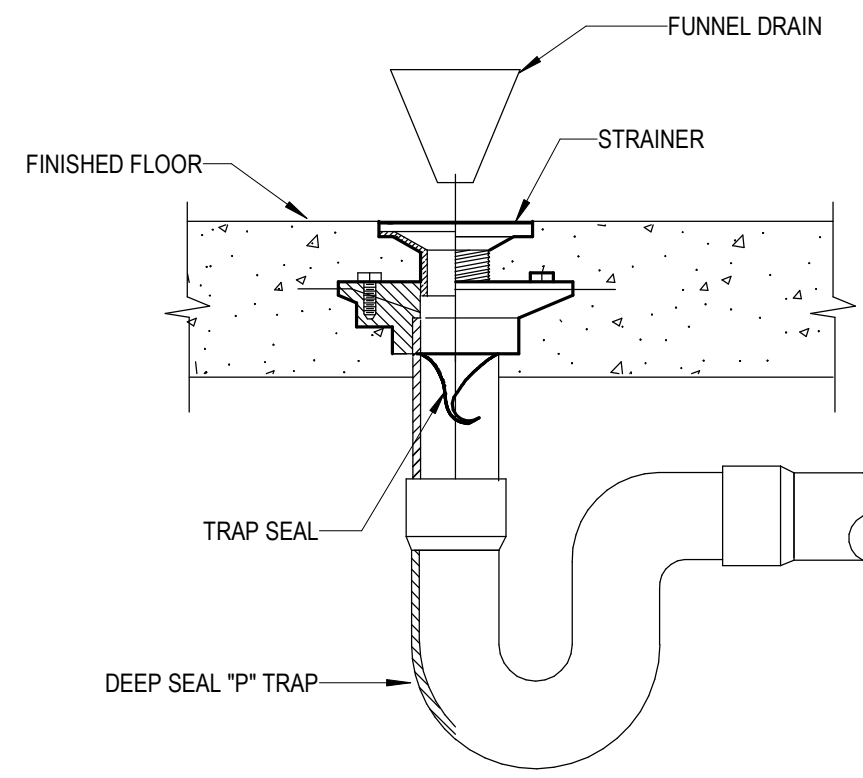
3 VENT THRU ROOF DETAIL
NOT TO SCALE



4 FLOOR DRAIN DETAIL
NOT TO SCALE



5 FLOOR DRAIN / FUNNEL DRAIN DETAIL
NOT TO SCALE



Date	Description
10/15/24	IFP
10/25/24	Rev 1 Permit Set

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