

BUILDING RENOVATIONS, REMODELING, & SITE IMPROVEMENTS FOR:
MONROE COMMUNITY CREDIT UNION

14 WINCHESTER STREET • MONROE, MICHIGAN • 48161

CODE INFORMATION

CODES:	MICHIGAN BUILDING CODE 2021 (MBC) MICHIGAN REHABILITATION CODE 2021 (MRCEB) MICHIGAN MECHANICAL CODE 2021 (MMC) MICHIGAN PLUMBING CODE 2021 (MPC) NATIONAL ELECTRICAL CODE 2023 (NEC) MICHIGAN ENERGY CODE 2021 (MEC) INTERNATIONAL FIRE CODE 2015 (IFC) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) ANSI A117.1 2004 (ACCESSIBLE BUILDINGS)	PLUMBING FIXTURES:	USE GROUP B = BUSINESS 22 OCC. MALE & FEMALE = II OCCUPANTS EACH WATER CLOSETS: 1 PER 25 OCC. 22 OCC. / 25 = 0.88 = 1 M.C. REQUIRED PROVIDED: 1 M.C. UNISEX ADA 1 M.C. UNISEX LAVATORY: 1 PER 40 OCC. 22 OCC. / 40 = 0.55 = 1 LAV. REQUIRED PROVIDED: 1 LAV. UNISEX ADA PROVIDED: 1 LAV. UNISEX DRINKING FOUNTAIN: 1 PER 500 OCC. REQUIRED SUBSTITUTION: WATER COOLER WILL BE PROVIDED SERVICE SINK: 1 REQUIRED 1 PROVIDED (MPC SECTIONS 403.1 - 403.2, TABLE 403.1) BUSINESS SINGLE OCCUPANCY NONE REQUIRED (MBC TABLE 508.4) 1 HOUR SEPARATION AT FURNACE ROOM IF ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT (MBC TABLE 504.1) NONE PROPOSED (MBC SECTION 602, TABLE 601 & TABLE 602)
CLASSIFICATION OF WORK:	EXISTING BUILDING ALTERATION LEVEL 3 (SECTION 604 MRCEB)	FIRE SEPARATION:	
USE GROUP:	BUSINESS GROUP B - BANKS (MBC SECTION 504.1)	FIRE RESISTANCE RATINGS:	
CONSTRUCTION TYPE:	EXISTING BUILDING TYPE VB - EXTERIOR CMU WALLS WITH BRICK VENEER, INTERIOR FRAMING WOOD OR METAL STUDS WITH GYPSUM BOARD FINISH, WOOD TRUSS ROOF, CONCRETE FLOOR (MBC SECTION 602.3)	FIRE PROTECTION SYSTEMS:	
ALLOWABLE HEIGHT & BUILDING AREA:	USE GROUP B - TYPE VB OVERALL HEIGHT: 40 FEET (MBC TABLE 504.3) PROPOSED: 14'-8" ROOF MEAN HT, 25'-0" RIDGE HT. ALLOWABLE STORIES: 2 STORIES (MBC TABLE 504.4) PROPOSED: 1 STORY ALLOWABLE AREA: 9,000 S.F. PER FLOOR (MBC TABLE 506.2) BUILDING = 3,270 S.F.	FIRE BLOCKING:	
SQUARE FOOTAGE:	EXISTING ONE STORY BUILDING = 3,216 S.F. PROPOSED ADDITION = 84 S.F. TOTAL BUILDING = 3,270 S.F.	AUTOMATIC SPRINKLERS:	
OCCUPANT LOAD:	MBC SECTION 1004, TABLE 1004.5 BUSINESS = 3,270 S.F. / 150 = 21.8 = 22 OCC.	DRAFT-STOPPING	
EXITS REQUIRED:	OCCUPANT LOAD 1 - 500 (MBC SECTION 1006, TABLE 1006.3.3 REQUIRED = (2) EXITS 3 EXITS PROVIDED		
EXIT ACCESS TRAVEL DISTANCE:	USE GROUP B 200 FEET W/O SPRINKLER SYSTEM (MBC SECTION 1017, TABLE 1017.2)		
EGRESS WIDTH:	BUSINESS USE 0.2' PER OCCUPANT (OTHER) (MBC SECTION 1005.3.2) 22 OCC. X 0.2" = 4.4" (EXITS) EXIT PASSAGEWAYS = 36" (MBC SECTION 1024, 1024.2) (LESS THAN 50 OCC.)		
AISLE WIDTH:	USE GROUP B 36" MINIMUM CLEAR (MBC SECTION 1018.3)		

NOTE:
THE CODE DATA LISTED IS FOR REFERENCE ONLY AND NOT INTENDED TO BE ALL INCLUSIVE. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR MEETING ALL ASPECTS OF THE MICHIGAN BUILDING CODE 2015 (MBC 2015) AND ALL APPLICABLE REFERENCED CODES AND/OR STANDARDS.

HAZARDOUS MATERIAL NOTE:
THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE IDENTIFICATION, DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE.

THE ARCHITECT'S SCOPE OF SERVICES DOES NOT INCLUDE ANY SERVICES RELATED TO ASBESTOS, LEAD, HAZARDOUS, OR TOXIC MATERIALS. IN THE EVENT THE CONTRACTOR OR ANY OTHER PARTY ENCOUNTERS ASBESTOS, HAZARDOUS, OR TOXIC MATERIALS AT THE JOB SITE, OR SHOULD IT BECOME KNOWN IN ANY SUCH WAY THAT MATERIALS MAY BE PRESENT AT THE JOB SITE OR ANY ADJACENT AREAS THAT MAY AFFECT THE PERFORMANCE OF THE CONTRACTOR'S SERVICES, THE CONTRACTOR SHALL NOTIFY THE OWNER WHO SHALL RETAIN APPROPRIATE SPECIALIST CONSULTANTS OR CONTRACTORS TO IDENTIFY, ABATE AND/OR REMOVE THE ASBESTOS, HAZARDOUS, OR TOXIC MATERIALS AND WARRANT THAT THE JOB SITE IS IN FULL COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS.

ALL NEW MATERIAL PROVIDED SHALL BE FREE OF ASBESTOS, LEAD, HAZARDOUS, OR TOXIC MATERIALS. UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A WRITTEN AFFIDAVIT AS PROOF OF COMPLIANCE.

GENERAL NOTES:

1. DRAWINGS ARE SCHEMATIC. ACTUAL CONDITIONS AFFECTING THIS WORK ARE TO BE VERIFIED IN THE FIELD. DO NOT SCALE DRAWINGS.

2. THE WORK SHALL BE AS SHOWN OR NOTED ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR THE FULL SCOPE OF THE WORK INDICATED UNLESS NOTED OTHERWISE.

3. THE ARCHITECT IS NOT RESPONSIBLE FOR MEANS AND METHODS UTILIZED IN THE EXECUTION OF THE WORK.

4. CONTRACTOR TO SECURE AND PAY FOR ALL PERMITS, INSPECTIONS, TESTS, ETC., AS REQUIRED FOR THE WORK UNDER THIS CONTRACT.

5. CONTACT PUBLIC UTILITIES AND COORDINATE WORK WITH PUBLIC REQUIREMENTS AND INSTALLATIONS. CONTACT "MISS DIG" (811) PRIOR TO START OF OPERATIONS.

6. WORK RELATING TO DISTURBANCE OF EXISTING HAZARDOUS MATERIALS, SUCH AS ASBESTOS, PCB, ETC., IS NOT WITHIN THE SCOPE OF THIS WORK. IF CONTRACTOR ENCOUNTERS MATERIALS KNOWN OR SUSPECTED TO CONTAIN A HAZARDOUS PRODUCT, HE/SHE SHALL ADVISE THE OWNER OF THE FINDINGS FOR DETERMINATION OF PROPER DISPOSITION. ANY SUCH HAZARDOUS MATERIALS SHALL NOT BE INCORPORATED IN THIS WORK.

7. PROVIDE ANY MEANS NECESSARY TO ENSURE SAFETY TO OWNER'S EMPLOYEES, VISITORS TO THE SITE, AND THE GENERAL PUBLIC.
8. UNLESS OTHERWISE APPROVED BY OWNER, FURNISH ONLY NEW MATERIALS OF GOOD QUALITY FOR INCORPORATION INTO THIS WORK.

9. VERIFY FINAL LAYOUT WITH OWNER AND ARCHITECT.

10. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO DOING ANY WORK OR FABRICATION. REVIEW DIMENSIONS SHOWN ON CONTRACT DRAWINGS AND REPORT ANY DISCREPANCIES THE ARCHITECT AND RECEIVE CLARIFICATION PRIOR TO PROCEEDING.

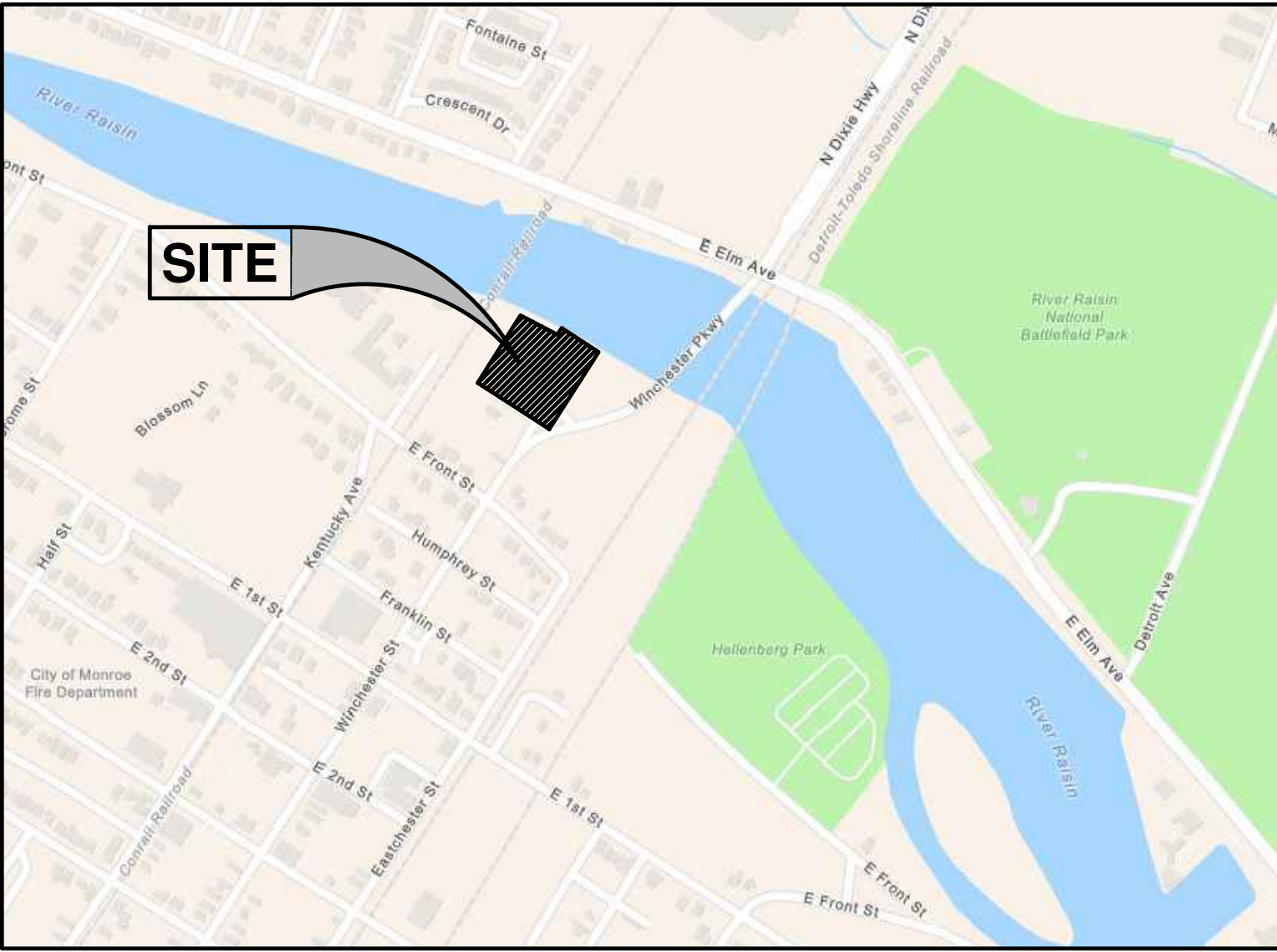
11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ALL SURFACES AND COMPONENTS DAMAGED DURING CONSTRUCTION.

12. THE GENERAL CONTRACTOR SHALL COORDINATE ALL TRADES WORK. EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PERMIT AND FEES, RELATED TO THEIR TRADE.

13. MECHANICAL INSTALLATIONS SHALL BE PROVIDED BY A CONTRACTOR LICENSED TO PERFORM SUCH MECHANICAL WORK. AIR BALANCING TESTS AND REPORTS SHALL BE PROVIDED IF WORK INCLUDES SUPPLY AIR, RETURN AIR OR EXHAUST AIR SYSTEMS.

14. ELECTRICAL INSTALLATIONS SHALL BE PROVIDED BY A CONTRACTOR LICENSED TO PERFORM SUCH ELECTRICAL WORK. CIRCUITS IN ELECTRICAL PANELS SHALL BE ACCURATELY IDENTIFIED.

15. PLUMBING INSTALLATIONS SHALL BE PROVIDED BY A CONTRACTOR LICENSED TO PERFORM SUCH PLUMBING WORK.



PLAN NORTH
SITE LOCATION PLAN
SCALE: 1" = 200'

PROJECT NARRATIVE

THESE DRAWINGS PROPOSE THE DEMOLITION OF THE NORTHERN PORTION OF THE BUILDING AND THE DRIVE-THROUGH TELLER CANOPY COMPLETE WITH THE REAMING SOUTHERN PORTION TO UNDERGO EXTENSIVE BUILDING RENOVATIONS, REMODELING, CONSTRUCTION OF A NEW DRIVE-THROUGH TELLER CANOPY, AND SITE IMPROVEMENTS FOR THE MONROE COMMUNITY CREDIT UNION'S BRANCH LOCATED AT 14 WINCHESTER STREET, MONROE, MICHIGAN 48161.

THE NORTHERN PORTION OF THE BUILDING TO BE DEMOLISHED IS APPROXIMATELY 2,922 S.F. ALL UTILITY DISCONNECTS SHALL BE COORDINATED WITH OWNER AND UTILITY COMPANIES PRIOR TO DEMOLITION.

THE REMAINING SOUTHERN PORTION IS APPROXIMATELY 3,270 S.F. INCLUDING A SMALL ENTRANCE ADDITION PLUS THE DRIVE-THROUGH TELLER CANOPY THAT IS APPROXIMATELY 1,140 S.F.

- IN GENERAL, THE BUILDING RENOVATIONS AND REMODELING ARE TO INCLUDE:
- COMPLETE REMOVAL AND REBUILD OF DRIVE-THRU TELLER CANOPY STRUCTURE
 - BRICK VENEER REMOVAL AND REPLACEMENT
 - WINDOWS REMOVAL AND REPLACEMENT
 - EXISTING FLAT ROOF STRUCTURE TO REMAIN WITH COMPLETE REMOVAL OF THE EPDM MEMBRANE AND UNDER-LAYMENT TO THE DECKING. PARTIAL PARAPET WALL REMOVAL AND MODIFICATION FOR NEW TRUSS BEARING
 - NEW ROOF TRUSSED ROOF AND CANOPY WITH ASPHALT SHINGLE ROOFING
 - LOBBY RENOVATION TO INCLUDE NEW OFFICES, NEW TELLER LINE AND SERVICE COUNTER TOP
 - NEW ELECTRICAL SERVICE WITH BACK-UP GENERATOR
 - TOILET ROOMS REMOVED AND RECONFIGURED
 - REMOVAL AND REPLACEMENT OF CEILING GRIDS THROUGHOUT WITH NEW LED LAYING LIGHTING AND MECHANICAL DIFFUSERS
 - REMOVAL AND REPLACEMENT OF FINISHES THROUGHOUT
 - REMOVAL AND REPLACEMENT OF INTERIOR SHEATHING ON EXTERIOR WALLS
 - REMOVAL AND REPLACEMENT OF MECHANICAL SYSTEMS AND DUCTWORK
 - REMOVAL AND REPLACEMENT OF DOORS AND HARDWARE

- IN GENERAL, SITE IMPROVEMENTS ARE TO INCLUDE:
- REMOVAL AND REPLACEMENT OF LANDSCAPING AND GROUND COVER
 - NEW LED BUILDING AND POLE MOUNTED SITE LIGHTING TO MEET THE HERITAGE CORRIDOR DISTRICT REQUIREMENTS
 - RESTORATION OF THE AREA OF BUILDING DEMOLITION TO LAWN AND LANDSCAPE AREA
 - NEW CONCRETE PATIO, WALKS, AND CURBING
 - NEW CONCRETE PAD AND TRASH ENCLOSURE
 - NEW DECORATIVE BOLLARDS
 - NEW BIKE RACK
 - NEW CONCRETE WHEEL STOPS
 - MILLING OF THE ASPHALT PAVING TO A DEPTH OF 1 1/2" AND INSTALLATION OF NEW 1 1/2" MDOT 36A WEARING COURSE WITH PERFORMANCE GRADE 5828 BINDER PLACED TO MATCH EXISTING PAVEMENT ELEVATIONS WITH LOT RE-STRIPPING

ALTERNATE #1
LAWN AND LANDSCAPE IRRIGATION SYSTEM - CONTRACTOR TO PROVIDE DESIGN AND INSTALLATION OF AN IRRIGATION SYSTEM TO SERVICE ALL LANDSCAPED AREAS.

CONSTRUCTION PHASING SCHEDULE
THE OWNER INTENDS TO PROVIDE SOME LEVEL OF SERVICE TO ITS MEMBERS THROUGHOUT THE CONSTRUCTION PROCESS TO THE FULLEST EXTENT POSSIBLE. IT IS UNDERSTOOD THAT THERE WILL BE TIMES WHEN TOTAL SHUTDOWN WILL BE REQUIRED. IN GENERAL, THE ANTICIPATED PHASING IS AS FOLLOWS;

- | | |
|---------|--|
| PHASE 1 | ELECTRICAL SERVICE UPGRADE AND GAS METER RELOCATION |
| PHASE 2 | CANOPY REMOVAL, REPLACEMENT AND EQUIPMENT INSTALLATION AND FULLY FUNCTIONAL PRIOR TO BUILDING RENOVATION |
| PHASE 3 | DEMOLITION OF THE NORTHERN PORTION OF THE BUILDING |
| PHASE 4 | BUILDING SHUT-DOWN FOR INTERIOR AND EXTERIOR BUILDING RENOVATION, REMODELING, AND ROOF REPLACEMENT |
| PHASE 5 | SITE IMPROVEMENTS AND RESTORATION |

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P-4 PLUMBING DETAILS

DRAWING LEGEND

X

X-1

DIRECTION OF SECTION CUT

X

X

X

X

INTERIOR ELEVATION MARKER (NUMBER)
SHEET ELEVATION IS LOCATED

XXX

ROOM IDENTIFICATION (NUMBER)

XXX

DETAIL NUMBER
SHEET DETAIL IS LOCATED

X

WALL TYPE (NUMBER)

X

ADDENDUM REVISION (NUMBER)

X

BULLETIN REVISION / KEYNOTE (NUMBER)

REVISION CLOUD

LINE OF 1 HOUR FIRE RATED WALL ASSEMBLY

LINE OF 2 HOUR FIRE RATED WALL ASSEMBLY

LINE OF 3 HOUR FIRE RATED WALL ASSEMBLY

X

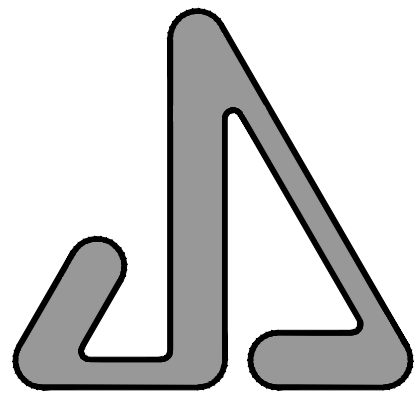
A-X

DETAIL NUMBER
SHEET DETAIL IS LOCATED

INDICATES AREA OF DETAIL

BUILDING ENVELOPE REQUIREMENTS FOR CLIMATE ZONE 5 (A,B,C) MICHIGAN ENERGY CODE 2015 CHAPTER 4, SECTION C401, C401.2 ASHRAE STANDARD 90.1 - 2013 TABLE 5.5-5: NONRESIDENTIAL		
ZONE 5A	MIN. VALUE BY CODE	PROVIDED
ROOFS		
ATTIC & OTHER	R-49	R-49
WALLS ABOVE GRADE		
MASS	R-11.4 c1	R-13.1 c1
WOOD FRAMED & OTHER	R-13 + R-15 c1 OR R-19 + R-5 c1	R-19 + R-13.1 c1
SLAB ON GRADE FLOORS		
UNHEATED SLAB	R-15 FOR 24" HORZ.	R-15 FOR 24" HORZ.
OPAQUE DOORS		
SPRINGS	U-0.50	U-0.50
FENESTRATION		
METAL FRAMING, FIXED	U-0.42	U-0.42
METAL FRAMING, ENTRANCE DOOR	U-0.77	U-0.77

c1 = CONTINUOUS INSULATION
NR = NO REQUIREMENT
Ls = LINER SYSTEM



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PROPERTY OWNER CONTACT:
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715 TELEGRAPH ROAD
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734-384-2705
kbrenner@monroecommunitycu.org

TITLE SHEET,
GENERAL NOTES,
LOCATION MAP,
& CODE
INFORMATION

NOT FOR CONSTRUCTION

03-06-26 01-21-26	BIDS OWNER REVIEW
DATE:	ISSUED FOR:
DRAWN	KMB
REVIEW'D	JSJ
202543	

72 Hours Before

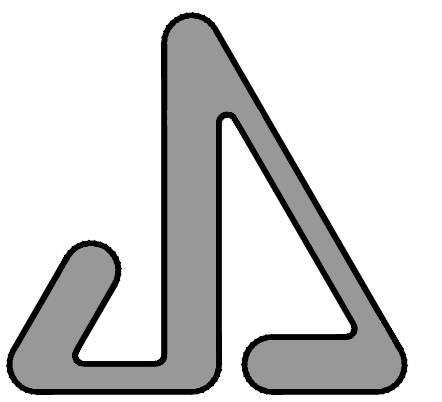


Know what's below.
Call before you dig.
Non Members must call directly.

T-2

1 OF 1

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LIFE SAFETY PLAN

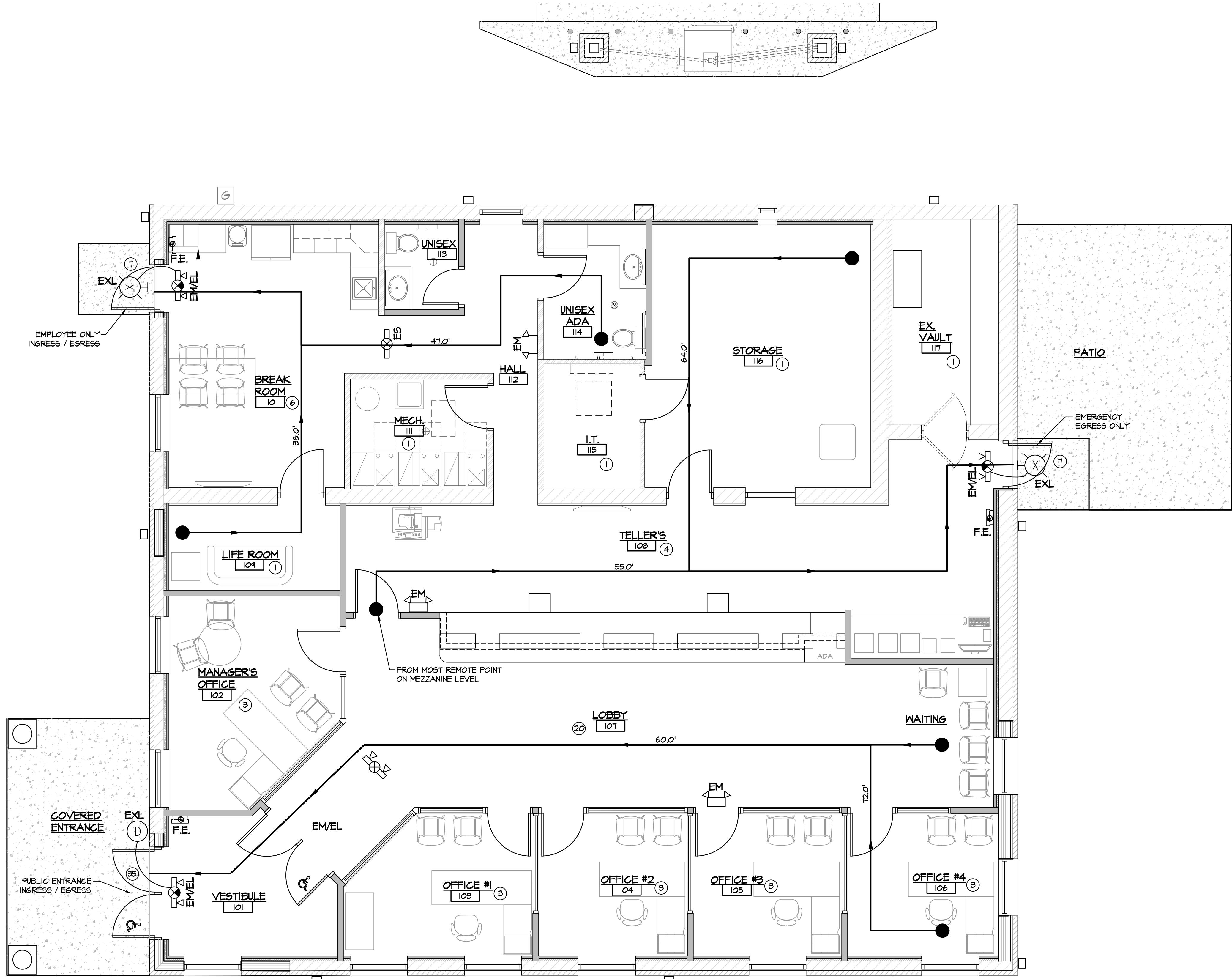
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REVIEW'D	JSJ
202543	

LS-1

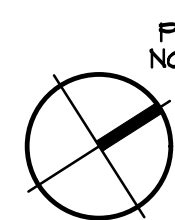
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LIFE SAFETY PLAN LEGEND

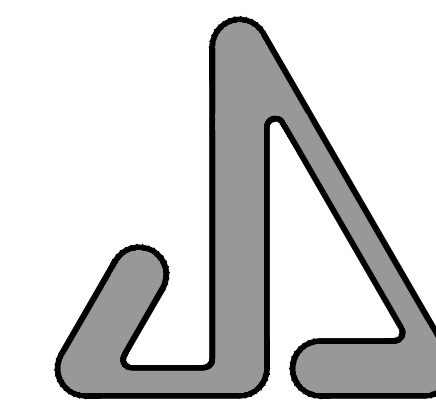
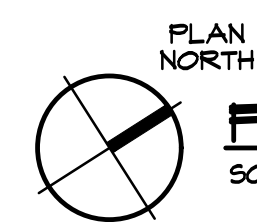
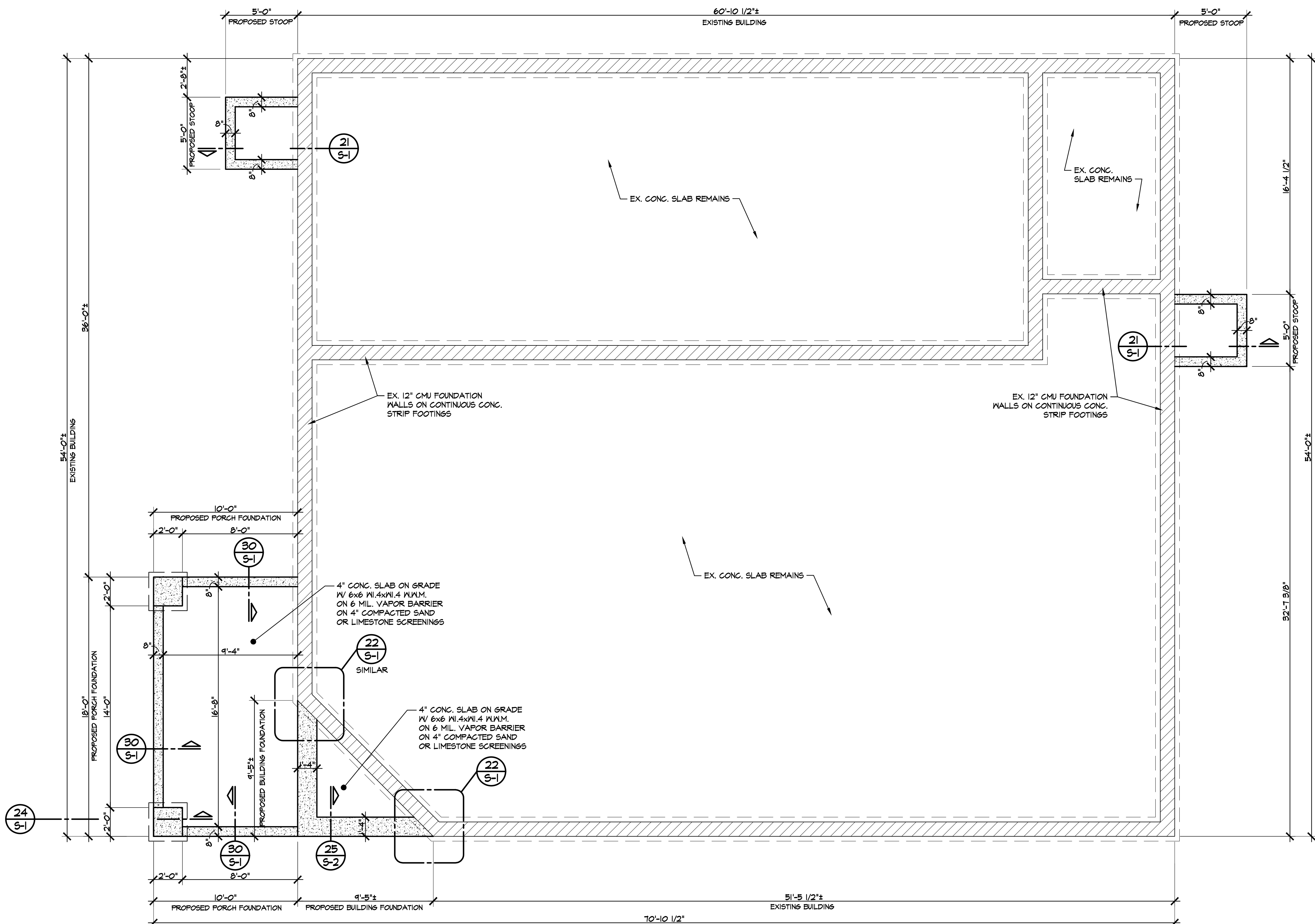
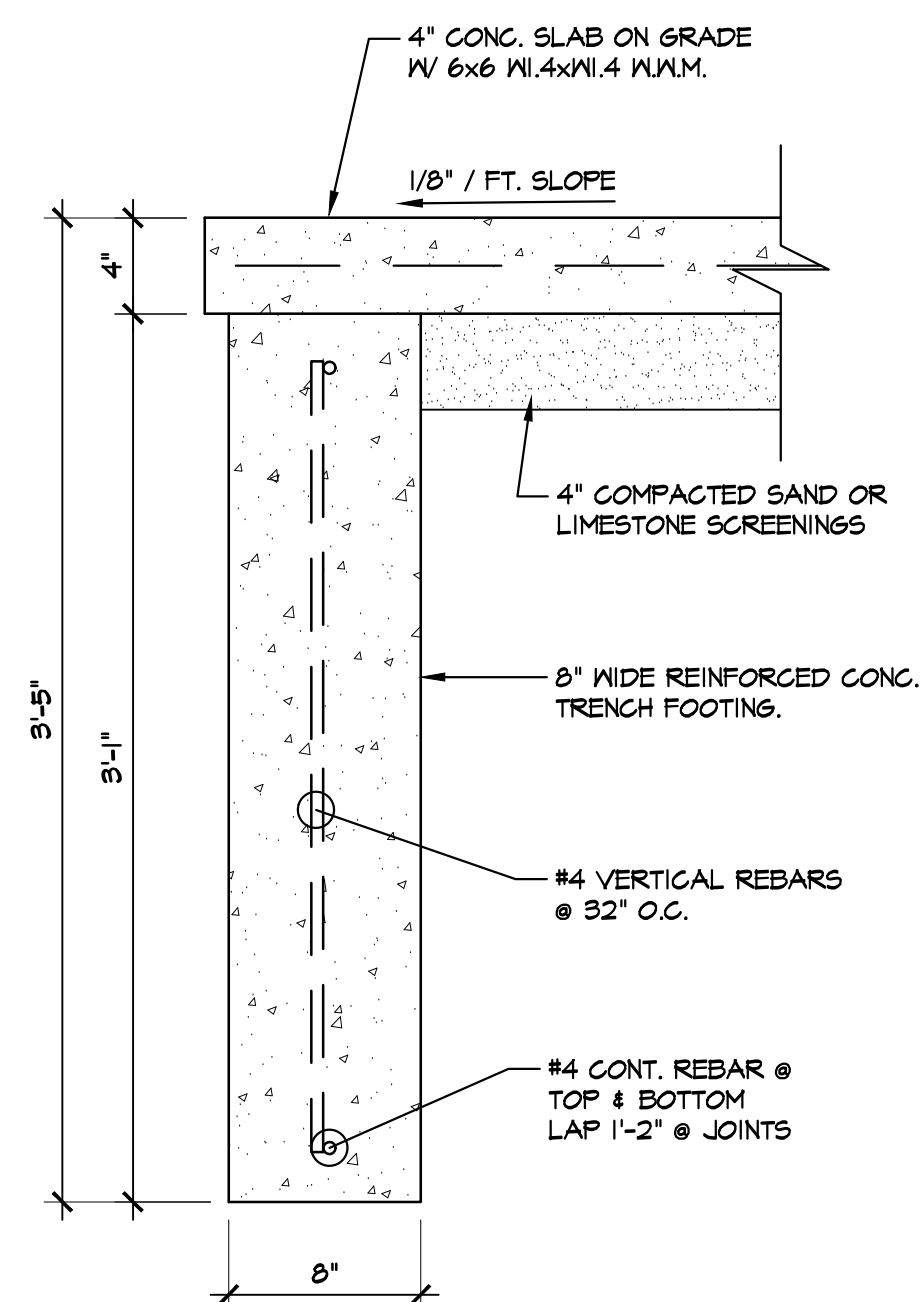
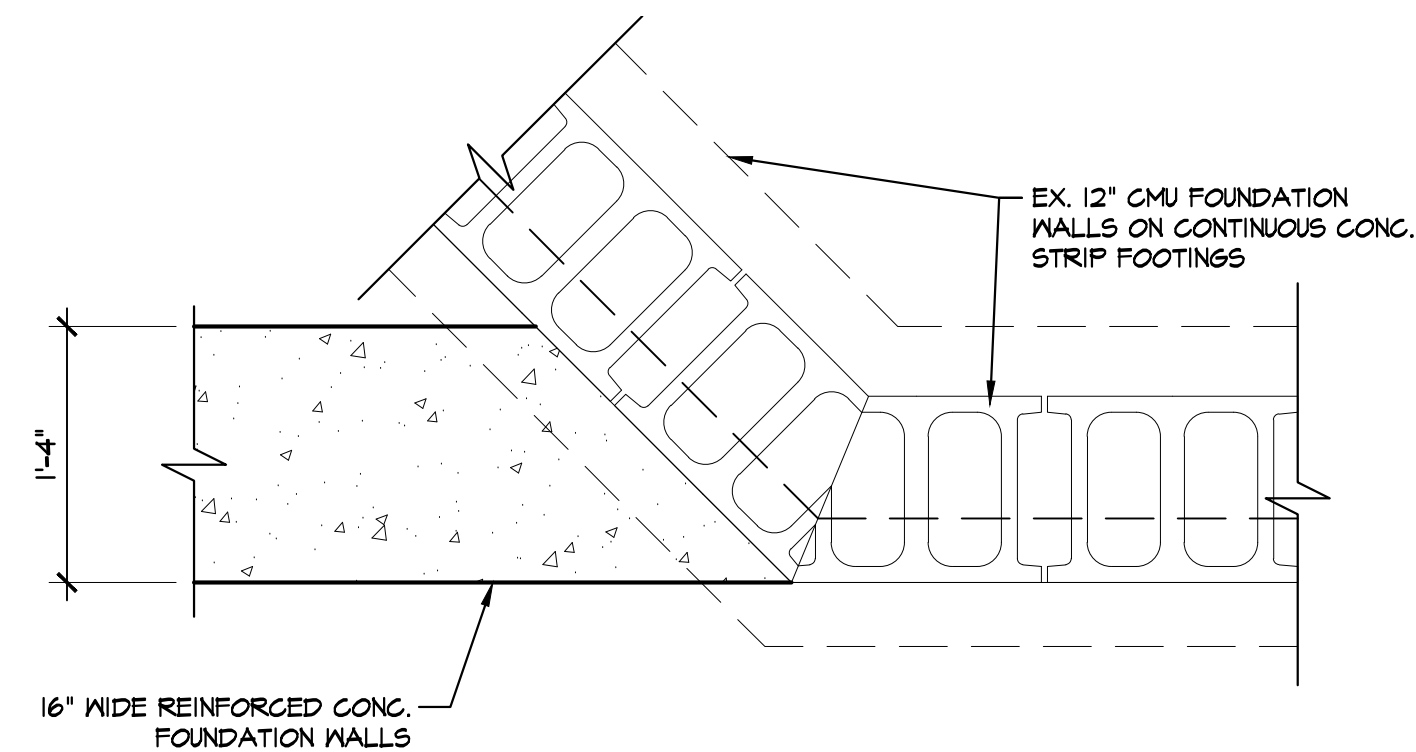
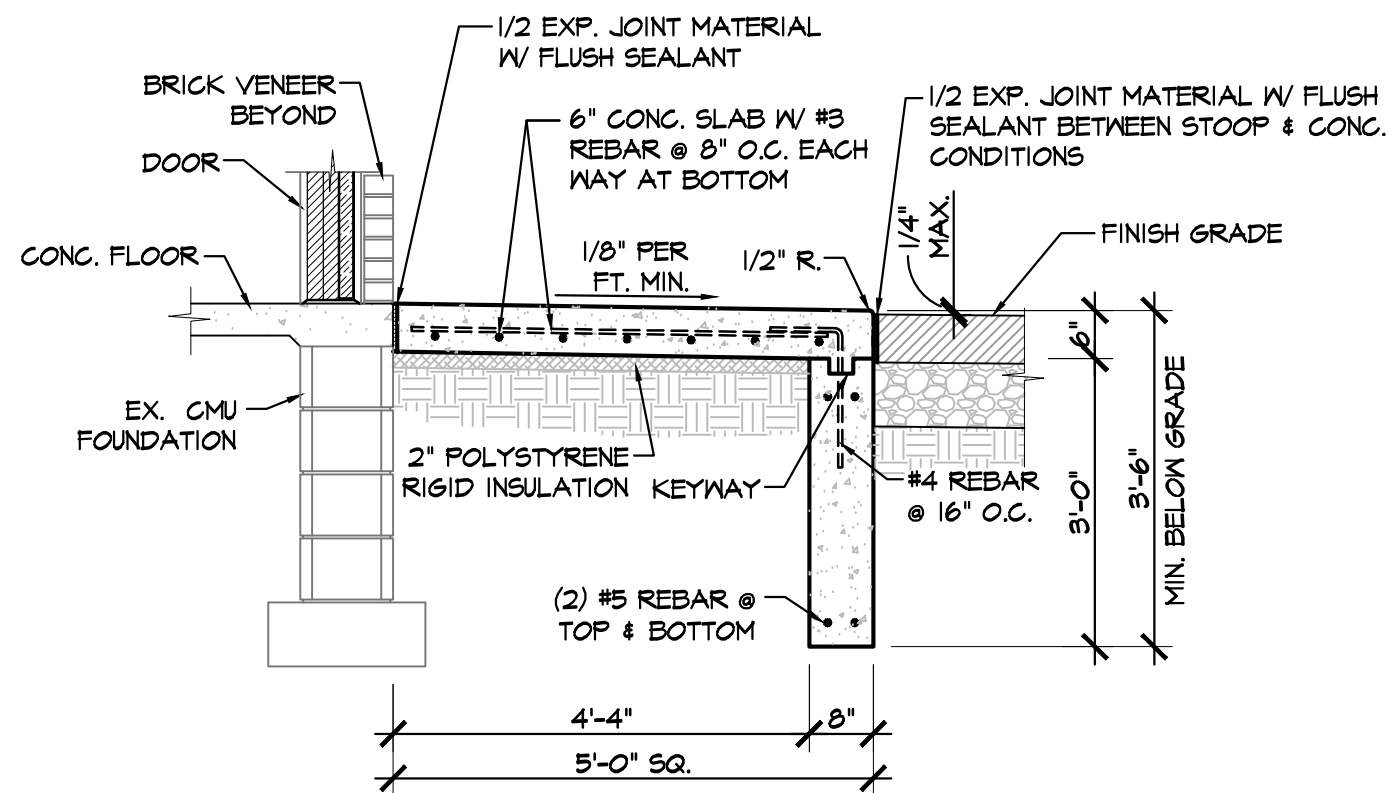
- EM EMERGENCY LIGHT - LED TWO ADJUSTABLE HEADS, SELF-DIAGNOSTICS, WALL MOUNTED, 90 MINUTE BATTERY BACKUP, 120V LITHONIA ELM2L SERIES
- EM/EL EMERGENCY LIGHT & EXIT SIGN COMBINATION - LED, TWO ADJUSTABLE HEADS, SELF-DIAGNOSTICS, WALL OR CEILING MOUNTED, 90 MINUTE BATTERY BACKUP, 120V LITHONIA LHQM SERIES OR EQUAL
- EXL EMERGENCY EXTERIOR LIGHTING - LED, REMOTE, WEATHER PROOF, WALL MOUNTED, LITHONIA ELMRE SERIES OR EQUAL
- ES EXIT SIGN - LED, SELF-DIAGNOSTICS, STATIC, WALL OR CEILING MOUNTED, 120V, 90 MINUTE BATTERY BACKUP LITHONIA LQM SERIES OR EQUAL
- EMERGENCY ACCESS ROUTE TOTAL TRAVEL DISTANCE AS NOTED
- MOST REMOTE POINT
- F.E. MIN. 10 LB. CLASS "A" DRY CHEMICAL PORTABLE FIRE EXTINGUISHER - SEMI RECESSED STEEL WALL CABINET, PROJECTION FROM WALL = 3" TYP.
- (7) MAX. OCCUPANT LOAD



LIFE SAFETY PLAN

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

NOTE:
VERIFY FINAL NUMBER AND LOCATIONS OF FIRE EXTINGUISHERS WITH FIRE INSPECTOR



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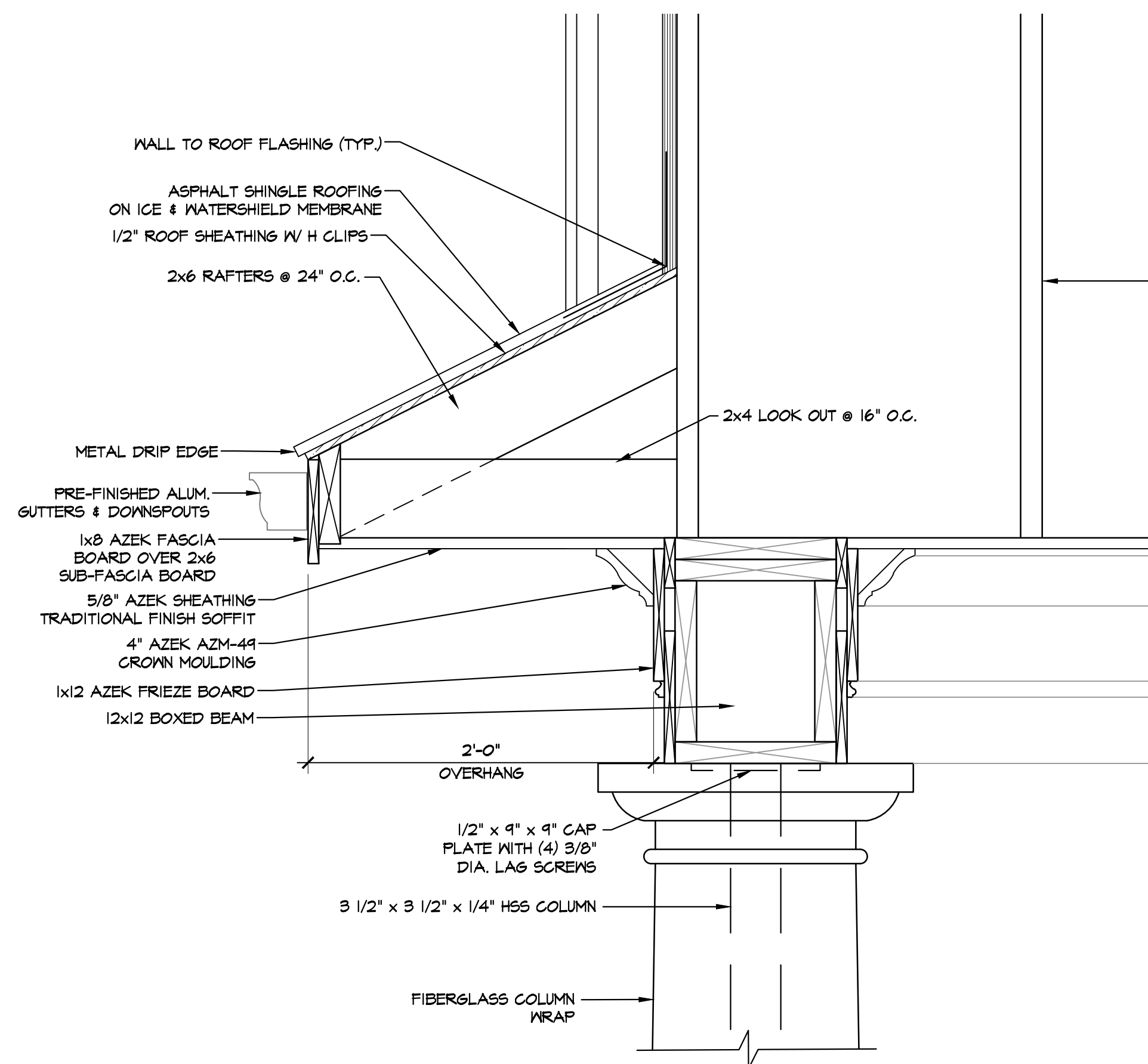
FOUNDATION
PLAN & DETAILS

NOT FOR CONSTRUCTION

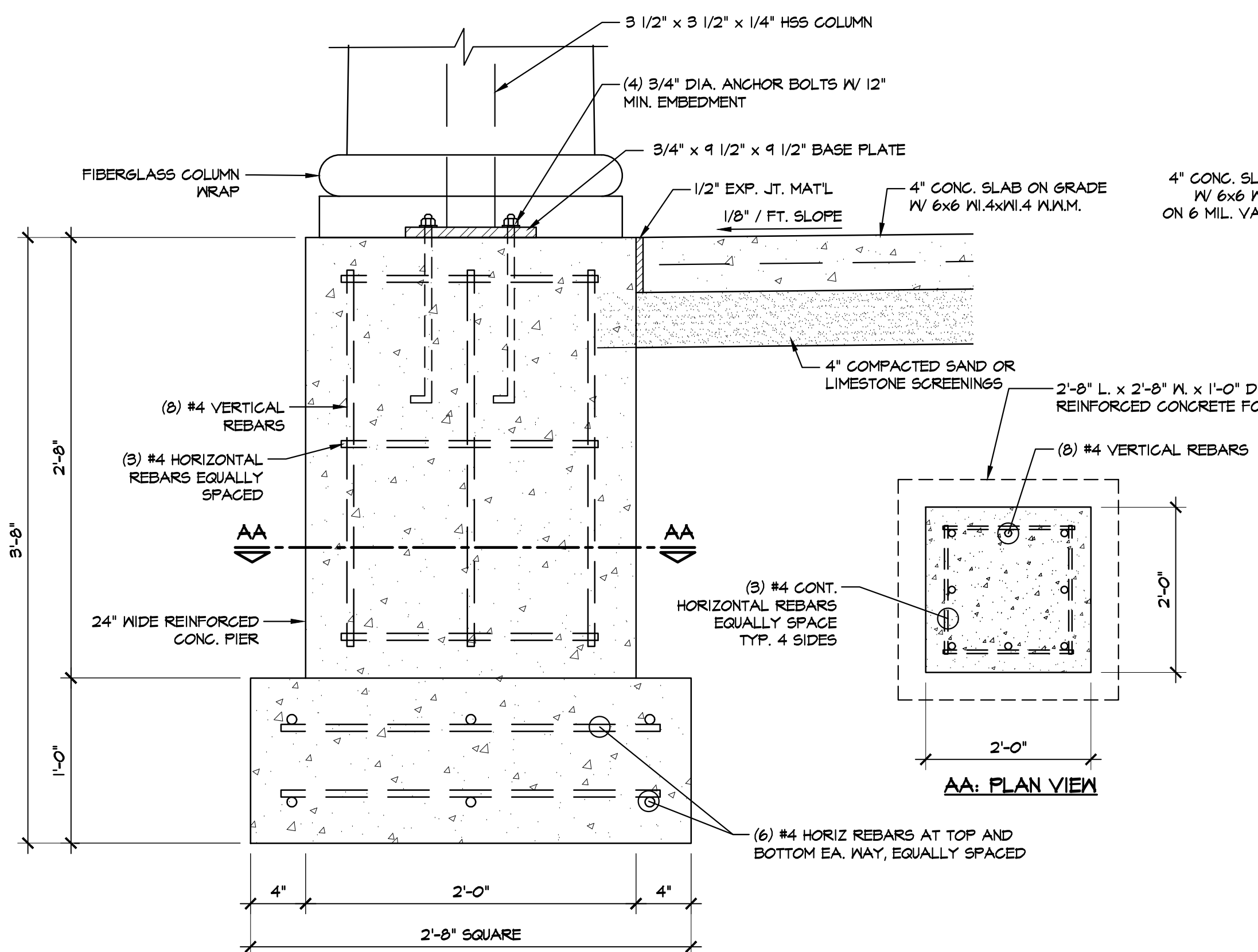
03-06-26	BIDS
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S-1

1 OF 3

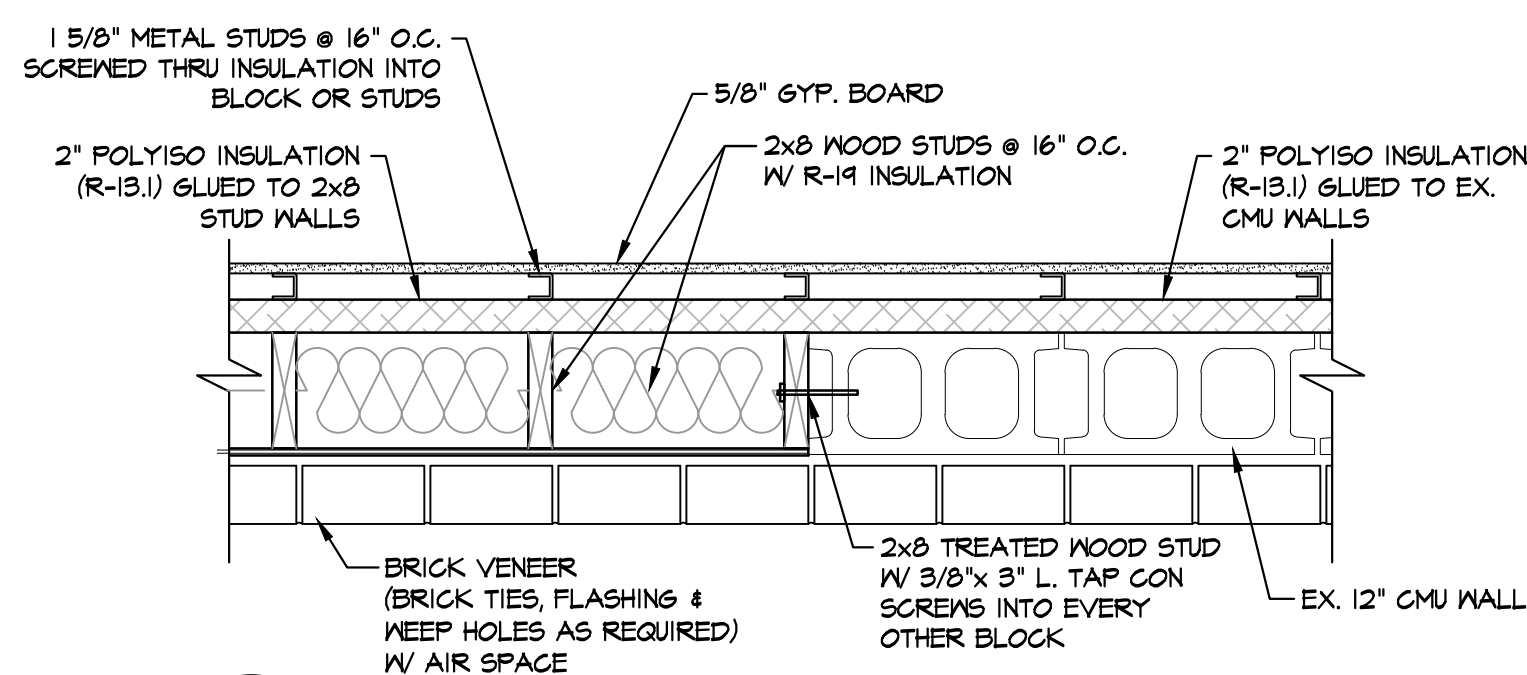


23 POST HEADER SECTION
A-7 SCALE: 1 1/2" = 1'-0"

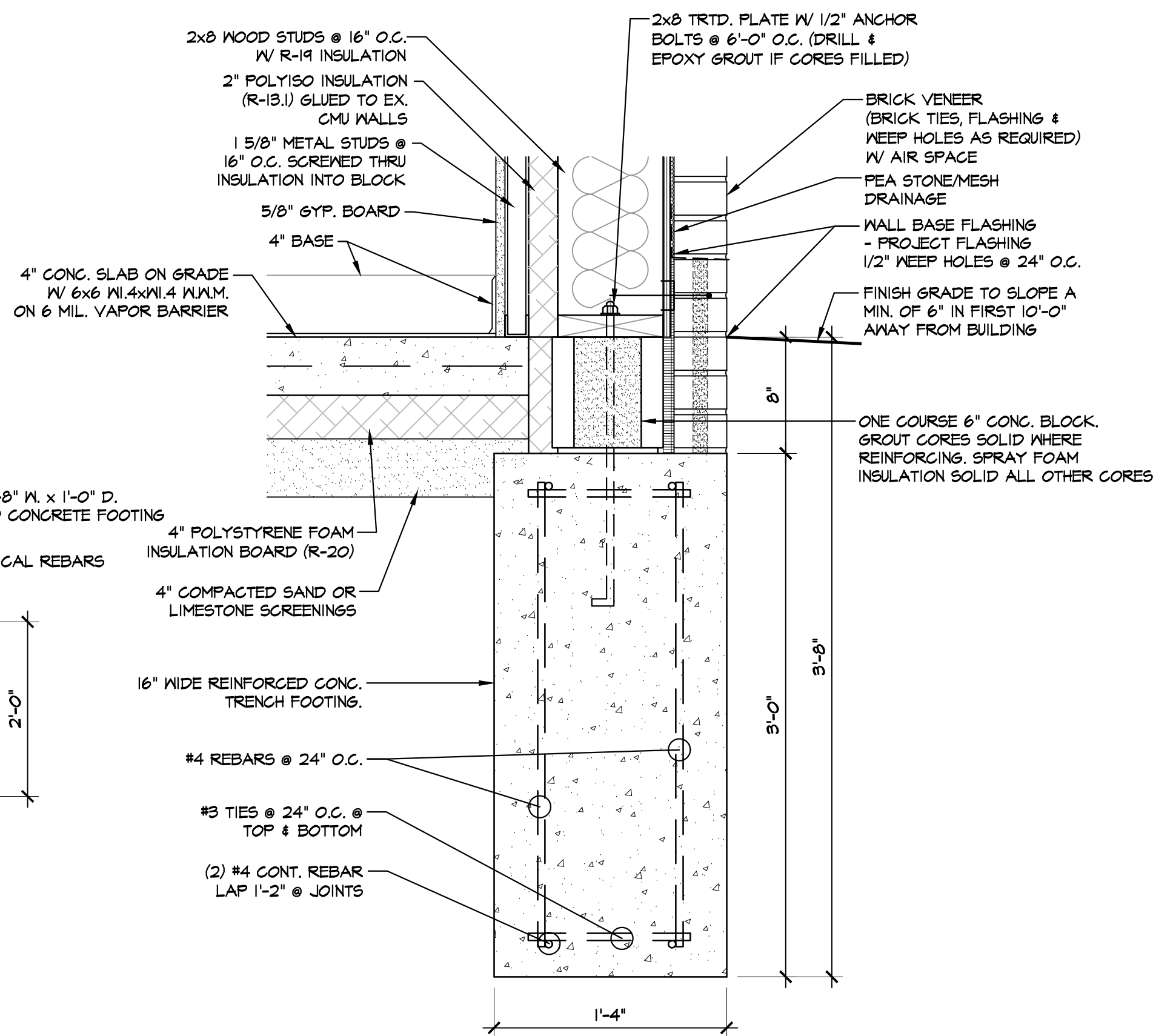


24 POST FOUNDATION SECTION
A-7 SCALE: 1 1/2" = 1'-0"

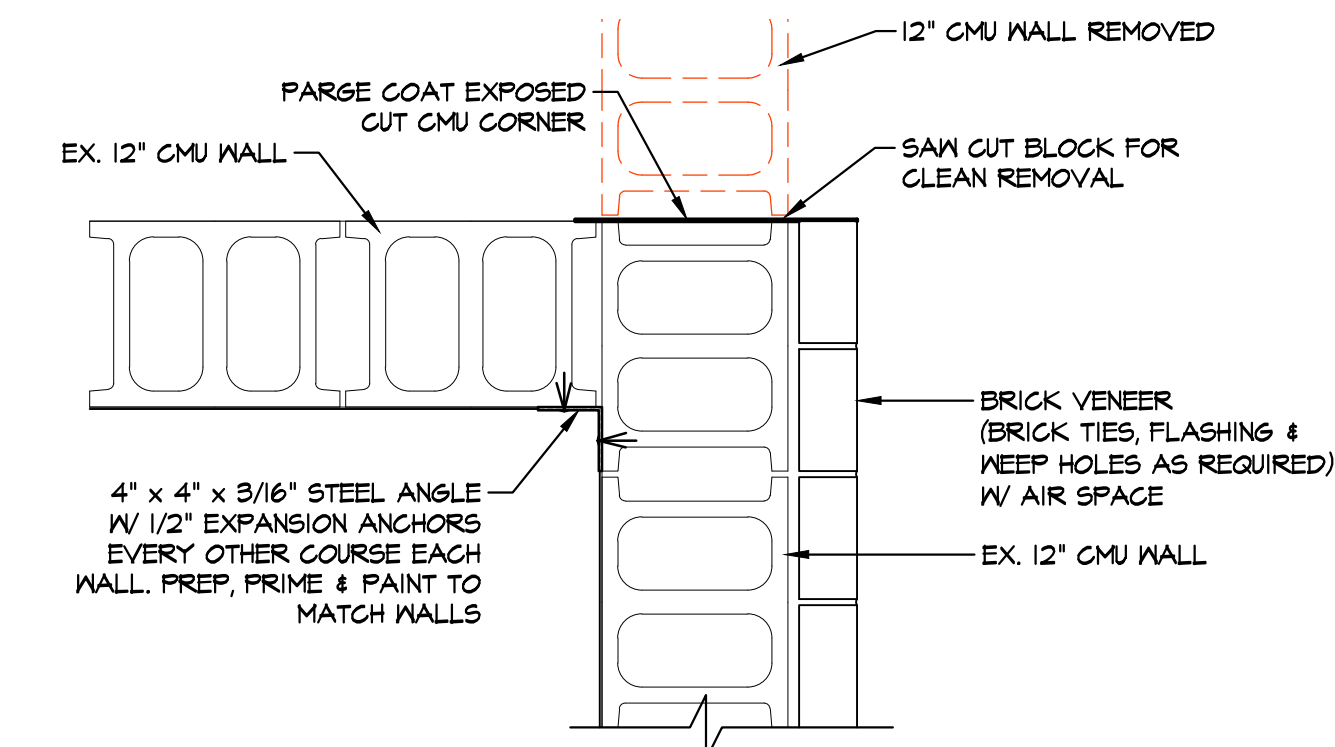
PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" O.C. (WEB DESIGN BY TRUSS MANUFACTURER) INSTALL TRUSS BRACING AS REQUIRED BY TRUSS MANUFACTURER & STRUCTURAL DRAWINGS



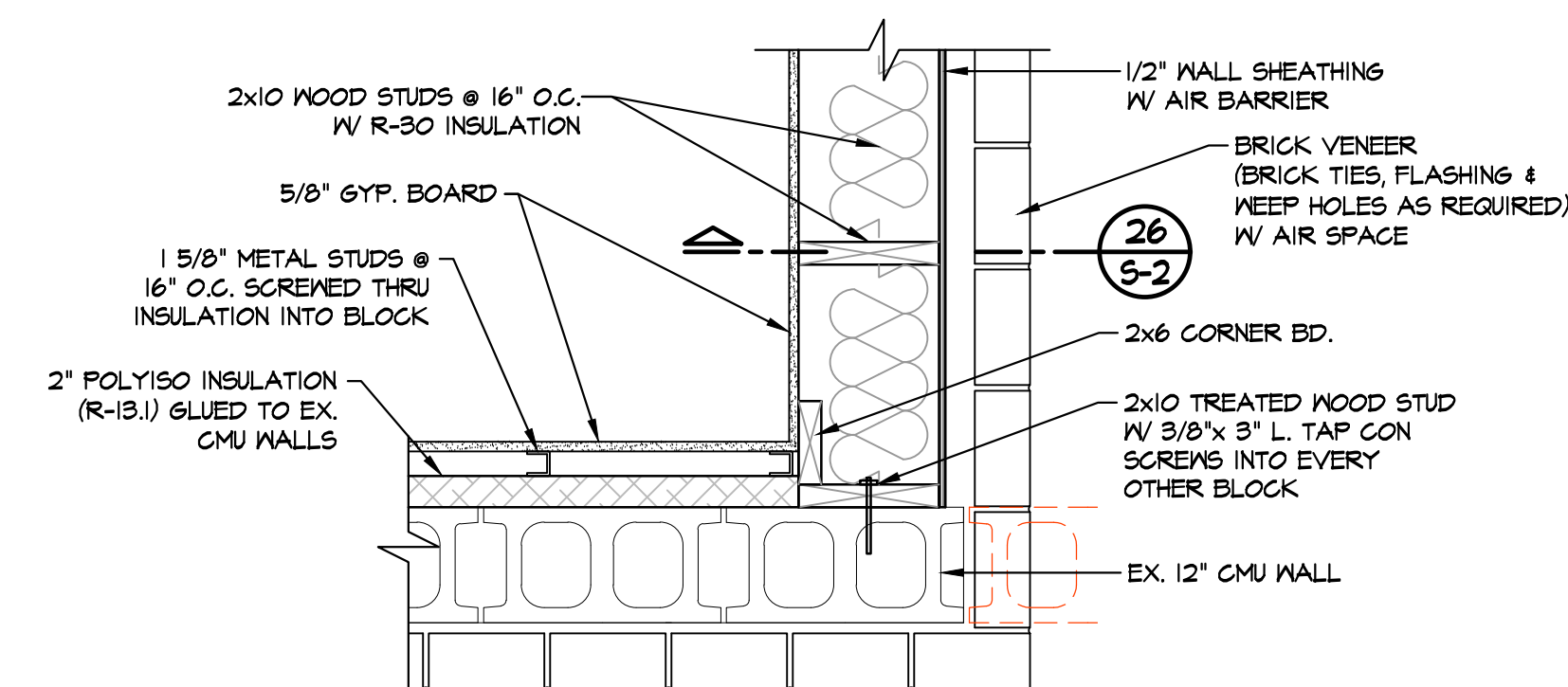
27 WALL CONNECTION DETAIL
A-2 SCALE: 1" = 1'-0"



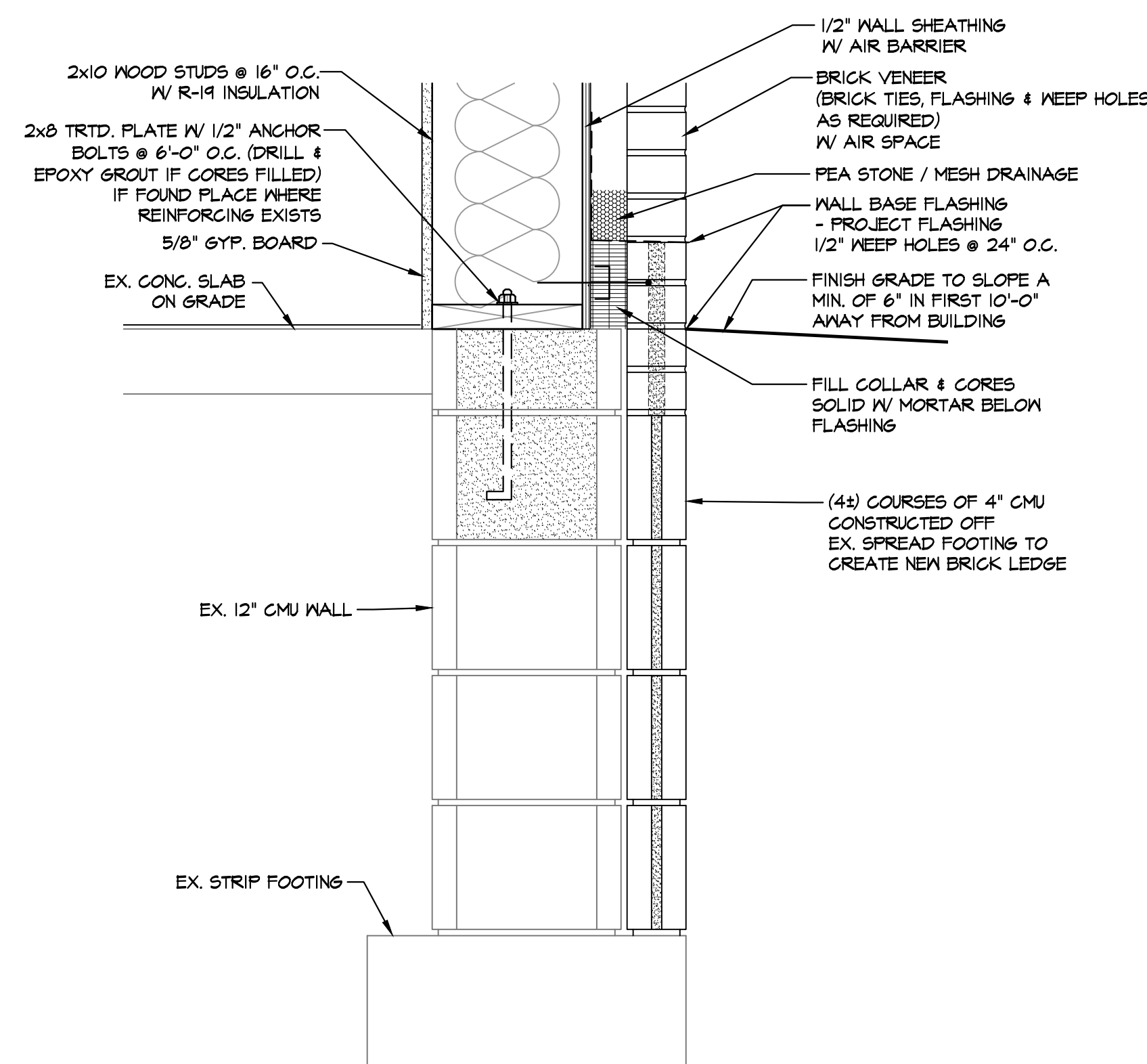
25 TRENCH FOOTING SECTION
A-7 SCALE: 1 1/2" = 1'-0"



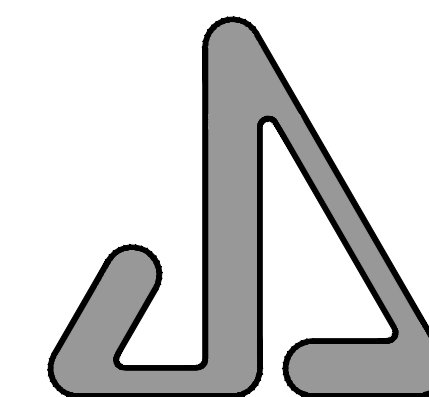
29 WALL CONNECTION DETAIL
A-2 SCALE: 1" = 1'-0"



28 WALL CONNECTION DETAIL
A-2 SCALE: 1" = 1'-0"



26 TRENCH FOOTING SECTION
A-7 SCALE: 1 1/2" = 1'-0"



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STRUCTURAL
DETAILS

NOT FOR CONSTRUCTION

03-06-26	BIDS
DATE:	ISSUED FOR:
DRAWN	KMB
REVIEW'D	JSJ
202543	

S-2

2 OF 3

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STRUCTURAL DESIGN CRITERIA:

A. GENERAL	1. BUILDING CODE;	2021 MICHIGAN BUILDING CODE
	2. STRUCTURAL LOADINGS CRITERIA;	ASCE 7-10
	3. RISK CATEGORY;	II
B. FLOOR LIVE LOAD	1. GENERAL AREAS UNLESS INDICATED	100 PSF
C. ROOF LIVE LOAD	1. PITCHED ROOF (6 : 12);	18 PSF
	2. PITCHED ROOF (4 : 12);	18 PSF
D. ROOF SNOW LOAD	1. SNOW EXPOSURE FACTOR, CE;	1.00
	2. THERMAL FACTOR, CT;	1.10
	3. SNOW LOAD IMPORTANCE FACTOR, IS;	1.00
	4. GROUND SNOW LOAD, PS;	20.0 PSF
	5. FLAT ROOF SNOW LOAD, PF;	15.4 PSF
	6. PITCHED ROOF BALANCED SNOW LOAD (4:12), PS;	15.4 PSF
E. WIND DESIGN DATA	1. BASIC WIND SPEED, V;	115 MPH
	2. EXPOSURE CLASSIFICATION;	C
	3. ENCLOSED CLASSIFICATION;	ENCLOSED
	4. MEAN ROOF HEIGHT, H;	14 FT
	5. WIND DIRECTIONALITY FACTOR, KD;	0.85
	6. TOPOGRAPHIC FACTOR, KZT;	1.00
	7. GUST RESPONSE FACTOR, G;	0.85
	8. INTERNAL PRESSURE COEFFICIENT, GCPI;	0.18
	9. COMPONENT AND CLADDING PRESSURE (A=10 SF)	
	a. WALL (ZONE 3)	41.4 PSF
	b. ROOF (ZONE 3)	78.0 PSF
F. EARTHQUAKE DESIGN DATA	1. SITE CLASS;	C
	2. SEISMIC DESIGN CATEGORY, SDG;	B
	3. MAPPED SHORT PERIOD SRA, SS;	0.111
	4. MAPPED ONE SECOND PERIOD SRA, SI;	0.051
	5. SHORT PERIOD DESIGN SRA, SDS;	0.084
	6. ONE SECOND PERIOD DESIGN SRA, SDI;	0.058
	7. SEISMIC LOAD IMPORTANCE FACTOR, IE;	1.00
	8. APPROXIMATE FUNDAMENTAL PERIOD, TA;	0.20 S
	9. SEISMIC RESPONSE COEFFICIENT, CS;	0.04
	10. BASIC SEISMIC FORCE RESISTING SYSTEM;	LIGHT FRAMED WALL SHEATHED W/ WOOD STRUCTURAL PANELS
	11. RESPONSE MODIFICATION COEFFICIENT, R;	6 1/2
	12. ANALYSIS PROCEDURE;	EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATIONS AND EARTHWORK:

- A. FOOTINGS & FOUNDATIONS ARE DESIGNED TO BEAR ON UNDISTURBED SOIL, COMPACTED FILL MATERIAL, OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) WITH A NET BEARING CAPACITY OF 1500 PSF. VERIFY BEARING CAPACITY OF SOIL AT BOTTOM OF EXCAVATIONS BEFORE CONSTRUCTING FOOTINGS. IF ACTUAL BEARING CAPACITY IS LESS THAN THE DESIGN CAPACITY IMMEDIATELY NOTIFY ARCHITECT. INCREASE DEPTH OF FOOTINGS OR OVER EXCAVATE UNSUITABLE SOILS AND REPLACE WITH COMPACTED FILL OR CLSM MAYBE REQUIRED AS DIRECTED BY THE ARCHITECT.
- B. DESIGN AND INSTALL TEMPORARY SYSTEMS FOR EXCAVATION DEMATERINGS AND EXCAVATION BRACING AS REQUIRED FOR PROPER EXECUTION OF THE WORK. REMOVE TEMPORARY SYSTEMS AFTER CONSTRUCTION IS COMPLETED UNLESS INDICATED OR APPROVED.
- C. PREPARE SUBGRADE AND CONSTRUCT BUILDING PAD IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND / OR GEOTECHNICAL REPORT IF AVAILABLE. PROOF ROLL SUBGRADE TO DISCOVER WEAK OR UNSUITABLE SOILS. PLACE FILL IN MAXIMUM 8 INCH LIFTS AND COMPACT TO 95% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557-02 (MODIFIED PROCTOR TEST). FILL UNDER FOUNDATIONS AND BACKFILL IN EXCAVATIONS SHALL BE COARSE SAND, GRAVEL, OR CRUSHED STONE. SUBGRADE UNDER SLABS-ON-GRADE SHALL BE MINIMUM 4 INCH DEEP, CRUSHED STONE PLACED TO A TOLERANCE OF +0 TO 3/4 INCH.
- D. DO NOT CONSTRUCT FOOTINGS OR SLABS ON FROZEN SOILS, ON FROST, OR IN EXCAVATIONS CONTAINING STANDING WATER. KEEP EXCAVATIONS DRY AND PROTECT SUBGRADES, FOOTINGS, AND SLABS FROM FROST HEAVE.
- E. CENTER FOOTINGS UNDER COLUMNS AND WALLS UNLESS DETAILED OTHERWISE. TOP AND BOTTOM OF FOOTINGS SHALL BE LEVEL. STEP FOOTINGS WHERE IT IS NECESSARY TO CHANGE BEARING ELEVATIONS.
- F. BEAR EXTERIOR FOOTINGS, FOOTINGS ADJACENT TO THE BUILDING PERIMETER AND FOOTINGS IN AREAS WITH HIGH WIND REMAIN UNHEATED DURING WINTER OCCUPANCY, AT A MINIMUM FROST DEPTH OF 3'-6" BELOW GRADE. BEAR INTERIOR FOOTINGS AT ELEVATIONS INDICED.
- G. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR SLEEVES, INSERTS, ANCHORS, AND OTHER MATERIALS TO BE EMBEDDED IN FOUNDATIONS.
- H. BALANCE BACKFILL ON BOTH SIDES OF FOOTINGS AND FOUNDATION WALLS TO PREVENT MOVEMENT OF FOUNDATIONS.

CAST-IN-PLACE CONCRETE:

- A. COMPLY WITH THE FOLLOWING:
- SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301-10).
 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-11).
 - SPECIFICATION FOR HOT WEATHER CONCRETING (ACI 305.1-06).
 - STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING (ACI 306.1-10).
 - GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R-04).
 - GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE (ACI 304R-00).
 - SPECIFICATION FOR CURING CONCRETE (ACI 308.1-11).
 - GUIDE TO FORMWORK FOR CONCRETE (ACI 347-04).
 - STRUCTURAL WELDING CODE - REINFORCING STEEL (AWS D1.4-2011).
 - PLACING REINFORCING BARS, NINTH EDITION, CRSI
- B. QUALITY WELDERS AND WELDING PROCEDURES IN ACCORDANCE WITH AWS D1.4.
- C. CONCRETE
- MATERIALS
 - CEMENT; ASTM C150, TYPE I/II
 - FLY ASH; ASTM C618, CLASS C
 - GROUND GRANULATED BLAST-FURNACE SLAG (GGBFS); ASTM C494
 - NORMAL WEIGHT AGGREGATE; ASTM C33, CLASS 35
 - AIR-ENTRAINING ADMIXTURE; ASTM C260
 - CHEMICAL ADMIXTURES; ASTM C494
 - MIXING WATER; ASTM C44, POTABLE
 - GENERAL CONCRETE MIX REQUIREMENTS:
 - ESTABLISH MIX PROPORTIONS ON THE BASIS OF TRIAL MIXES OR FIELD EXPERIENCE.
 - CEMENTITIOUS MATERIALS MAY BE COMBINATION OF PORTLAND CEMENT, GROUND-GRANULATED BLAST-FURNACE SLAG AND FLY ASH. LIMIT PERCENTAGES, BY WEIGHT, OF FLY ASH AND GGBFS TO 25% OF TOTAL CEMENTITIOUS MATERIAL, AND COMBINATION OF FLY ASH AND GGBFS TO 40% OF TOTAL CEMENTITIOUS MATERIAL.
 - LIMIT WATER-SOLUBLE CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.15 PERCENT BY WEIGHT OF CEMENT.
 - MAXIMUM COARSE AGGREGATE SIZE: 1-IN.

CAST-IN-PLACE CONCRETE - CONT'

- CONCRETE CLASSES:
- A. ENTRY SLABS AND OTHER CONCRETE EXPOSED TO FREEZE-THAW CYCLES IN MOIST CONDITIONS AND EXPOSED TO DEICING CHEMICALS:
- EXPOSURE CLASS; F8
 - COMPRESSIVE STRENGTH, FC'; 5,000 PSI
 - MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO; 0.40
- B. CONCRETE EXPOSED TO FREEZE-THAW CYCLES BUT NOT EXPOSED TO DEICING CHEMICALS:
- EXPOSURE CLASS; F2
 - COMPRESSIVE STRENGTH, FC'; 4,500 PSI
 - MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO; 0.45
- C. FOOTINGS:
- EXPOSURE CLASS; F0
 - COMPRESSIVE STRENGTH, FC'; 9,000 PSI
- D. FLOOR SLABS-ON-GRADE:
- EXPOSURE CLASS; F0
 - COMPRESSIVE STRENGTH, FC'; 4,000 PSI
 - MINIMUM CEMENTITIOUS MATERIAL CONTENT; 520 POUNDS PER CUBIC YARD
- D. STEEL REINFORCEMENT
- MATERIALS
 - REINFORCING BARS; ASTM A615, GRADE 60
 - LOW ALLOY GRADING BARS; ASTM A106, GRADE 60
 - WELDED WIRE FABRIC; ASTM A185, AS-DRAWN
 - FABRICATE BENT BARS WITH MINIMUM OF STANDARD HOOKS AND EMBED IN ACCORDANCE WITH CONCRETE REINFORCEMENT STANDARD HOOK EMBEDMENT SCHEDULE.
 - LAP REINFORCING AS SHOWN IN ACCORDANCE WITH CONCRETE REINFORCEMENT LAP SPlice SCHEDULE. LAP WELDED WIRE FABRIC ONE WIRE SPACING PLUS 2-IN.
 - INSTALL DOVELS IN COLUMN, PIER, AND WALL FOOTING OF SAME SIZE AND NUMBER AS VERTICAL BARS. LAP DOVELS WITH VERTICAL REINFORCEMENT AND EXTEND INTO FOOTING A DISTANCE EQUAL TO LAP SPlice LENGTH. IF FOOTING DEPTH IS INSUFFICIENT TO DEVELOP DOVEL SPlice LENGTH, TERMINATE END OF BAR IN FOOTING WITH STANDARD HOOK.
 - INSTALL CORNER BARS EQUIVALENT IN SIZE AND SPACING TO HORIZONTAL BARS AT CORNERS AND T-INTERSECTIONS OF WALLS, GRADE BEAMS, AND WALL FOOTINGS. LAP CORNER BARS WITH HORIZONTAL REINFORCEMENT.
 - INSTALL ADDITIONAL TOP REINFORCEMENT IN WALL FOOTINGS AT DOOR OPENINGS. ADDITIONAL REINFORCEMENT SHALL BE EQUIVALENT IN CROSS SECTIONAL AREA TO BOTTOM REINFORCEMENT AND SHALL EXTEND ONE LAP SPlice LENGTH PLUS BOTH SIDES OF OPENING.
 - INSTALL ADDITIONAL REINFORCEMENT ON ALL SIDES OF WALL AND SLAB OPENINGS EQUIVALENT TO ONE HALF OF CROSS SECTIONAL AREA OF REINFORCEMENT INTERRUPTED BY OPENING. PROVIDE TWO #5 X 4'-0" LONG DIAGONAL BARS IN EACH FACE AT CORNER OF OPENING.
 - UNLESS NOTED PROVIDE 6X6 IN2.9X12.9 WELDED WIRE FABRIC IN SLABS-ON-GRADE, CONCRETE JOIST SLABS, AND CONCRETE SLABS ON METAL DECK.
 - PLACE AND SECURE REINFORCEMENT PRIOR TO CASTING CONCRETE. SUPPORT BARS ON SUFFICIENT CHAIRS, BOLSTERS, STANDEES, OR OTHER BAR SUPPORT TO MAINTAIN PROPER POSITION OF BARS OVER ENTIRE LENGTH. USE CRSI CLASS 1 (PLASTIC-TIPPED) OR CLASS 2 (STAINLESS STEEL) SUPPORTS AT ALL EXPOSED SURFACES. SUPPORT WELDED WIRE FABRIC ON BAR SUPPORTS OR ON CONCRETE BLOCKS. CONSTRUCTION TECHNIQUES REQUIRING WELDED WIRE FABRIC TO BE PULLED-UP AFTER CONCRETING ARE PROHIBITED.
 - DO NOT WELD REINFORCEMENT UNLESS SHOWN. USE LOW ALLOY REINFORCING BARS WHERE WELDING OF REINFORCEMENT IS REQUIRED OR APPROVED.
 - CONCRETE COVER ON REINFORCEMENT UNLESS NOTED:
 - CONCRETE DEPOSITED AGAINST EARTH; 3 INCH
 - FORMED SURFACES EXPOSED TO WEATHER OR EARTH; 1 1/2 INCH FOR #5 AND SMALLER 2 INCH FOR #6 AND LARGER.
 - SLABS, WALLS, AND JOISTS; 1 INCH
 - BEAMS, GIRDERS, AND COLUMNS; 1 1/2 INCH
- E. MISCELLANEOUS MATERIALS
- BONDING ADHESIVE; SIKA, ARMATEC 110
 - EXPANSION/ ISOLATION JOINT FILLER; W.R. MEADOWS, CERAMAR
 - SEMI-RIGID JOINT FILLER; EPOXY RESIN WITH TYPE A SHORE DUROMETER HARDNESS OF 80
 - VAPOR RETARDER; ASTM E1745, CLASS C
 - FINE-GRADED GRANULAR FILL; ASTM D4448 SIZE 10, CRUSHED STONE
 - CURING COMPOUND; ASTM C309, TYPE I, CLASS B, 18-25% SOLIDS, NON-DISSIPATING
- F. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR OPENINGS, SLEEVES, CONDUITS, INSERTS, ANCHORS, AND OTHER MATERIALS TO BE EMBEDDED IN CONCRETE AND FOR REQUIRED SLAB DEPRESSIONS, SLOPES, EQUIPMENT PADS, CURBS, CHAMFERS, JOINTS, AND ARCHITECTURAL DETAILING. OBTAIN WRITTEN APPROVAL OF ENGINEER PRIOR TO PLACING OPENINGS OR SLEEVES NOT SHOWN ON STRUCTURAL DRAWINGS THROUGH ANY STRUCTURAL ELEMENT.
- G. PLACE CONSTRUCTION JOINTS AS SHOWN ON DRAWINGS AND IN LOCATIONS WHICH LEAST IMPAIR STRENGTH OF STRUCTURE. OBTAIN WRITTEN APPROVAL OF ENGINEER FOR CONSTRUCTION JOINTS NOT SHOWN ON DRAWINGS.
- H. SAW CUT CONTROL JOINTS IN SLABS-ON-GRADE AS SOON AS CUTTING ACTION WILL NOT DAMAGE SURFACE. LOCATE JOINTS IN APPROXIMATELY SQUARE PATTERN AT A MAXIMUM SPACING OF 12 FEET CENTERS UNLESS SHOWN. SUBMIT CONTROL JOINT LOCATION PLAN FOR APPROVAL.
- I. INSTALL VAPOR RETARDER UNDER SLABS CAST ON THE GROUND. SEAL JOINTS WITH MANUFACTURER'S STANDARD TAPE. COVER VAPOR RETARDER WITH 3 INCH LAYER OF FINE GRADED GRANULAR MATERIAL UNLESS INDICATED.
- J. CHAMFER EXPOSED EDGES 3/4 INCH X 45 DEGREES.
- K. MOIST CURE CONCRETE FOR MINIMUM OF SEVEN DAYS USING ONE OF FOLLOWING METHODS:
- ABSORPTIVE COVER CONTINUOUSLY WET WITH WATER.
 - MOISTURE-RETAINING COVER.
 - CURING COMPOUND. REMOVE COMPOUND AFTER CURING PERIOD WHEN REQUIRED FOR APPLICATION OF ARCHITECTURAL FINISHES.
- L. FINISH SCHEDULE
- FORMED SURFACES EXPOSED TO VIEW AND RELATED UNFORMED SURFACES; RUBBED FINISH
 - FORMED SURFACES NOT EXPOSED TO VIEW; AS-FORMED FINISH
 - SLABS EXPOSED TO VIEW; TROWEL FINISH
 - STAIRS, ENTRY SLABS, AND EXTERIOR RAMPS; BROOM FINISH
- M. FLOOR FLATNESS AND LEVELNESS
- SLABS-ON-GRADE
 - OVERALL VALUES; FF=25; FL=25.
 - MINIMUM LOCAL VALUES; FF=24; FL=17.
 - MEASURE FLOOR FLATNESS AND LEVELNESS IN ACCORDANCE WITH ASTM E1155 WITHIN 24 HOURS OF FINISHING.
- N. WHERE BONDING FRESH CONCRETE TO PREVIOUSLY HARDENED CONCRETE, REMOVE LAITANCE AND DELETERIOUS SUBSTANCES AND INTENTIONALLY ROUGHEN EXISTING SURFACE TO 1/4" AMPLITUDE. APPLY BONDING ADHESIVE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS INCLUDED IN THE PRODUCT PACKAGING.
- O. SAMPLE FRESH CONCRETE AND PERFORM AIR CONTENT, SLUMP TEST, UNIT WEIGHT, AND CONCRETE TEMPERATURE TESTS AND CAST CONCRETE CYLINDERS FOR STRENGTH TESTS IN ACCORDANCE WITH ACI 318. OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S PLACEMENT OF EACH CONCRETE CLASS EXCEEDING 5 CUBIC YARDS PLUS ONE SAMPLE FOR EACH ADDITIONAL 50 CUBIC YARDS OR FRACTION THEREOF.

WOOD FRAMING:

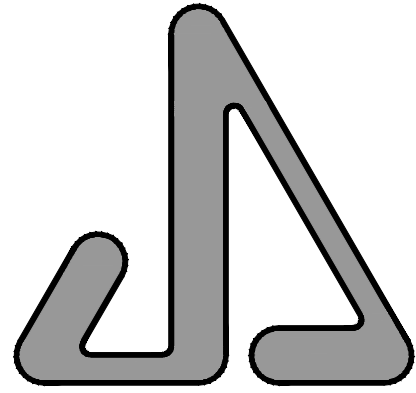
- A. COMPLY WITH THE FOLLOWING:
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 (2018) EDITION (ANSI/APWC NDS-2015(2018)).
 - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (ANSI/AF&PA SDPWS-2015).
 - WOOD FRAME CONSTRUCTION MANUAL, 2015 EDITION (ANSI/APWC WFCM-2015 (2018)).
 - NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (ANSI/TFP 1-2014).
- B. DIMENSION LUMBER AND TIMBER
- PROVIDE DIMENSION LUMBER AND TIMBER MEMBERS OF FOLLOWING SPECIES AND GRADES UNLESS INDICATED, OR OF OTHER SOFTWOOD SPECIES OF EQUIVALENT OR BETTER MECHANICAL PROPERTIES.
 - EXTERIOR LOAD-BEARING WALLS; SPP #3 GRADE.
 - TOP AND BOTTOM WALL PLATES; S. PINE #1 GRADE.
 - JOISTS, RAFTERS, HEADERS, BEAMS; SFF, No. 1 / No. 2 GRADE.
 - NAILERS, BLOCKING, BRIDGING, BRACING; SPP STANDARD GRADE.
 - MAXIMUM MOISTURE CONTENT = 19 PERCENT.
 - DRESSED ON FOUR SIDES (S4S) UNLESS ROUGH SAWN (R&H) IS INDICATED.
- C. ENGINEERED WOOD PRODUCTS
- LAMINATED VENEER LUMBER (LVL); STRUCTURAL COMPOSITE LUMBER MADE FROM ORIENTED WOOD VENEERS AND EXTERIOR-TYPE ADHESIVES, CONFORMING TO ASTM D5456 AND APPROVED IN ACCORDANCE WITH ICC-ES AC 47. MINIMUM MECHANICAL PROPERTIES:
 - MODULUS OF ELASTICITY, E; 2,000,000 PSI
 - REFERENCE FLEXURAL STRESS, FB; 2,900 PSI
- D. METAL PLATED WOOD TRUSSES
- FABRICATE TRUSSES FROM DIMENSION LUMBER OF SPECIES AND GRADE REQUIRED BY DESIGN. USE PRESERVATIVE-TREATED OR FIRE-RETARDANT TREATED WOOD WHERE INDICATED.
 - CONNECTOR PLATES:
 - INTERIOR EXPOSURE: MINIMUM 0.036-IN THICK, HOT-DIP GALVANIZED STEEL SHEET CONFORMING TO ASTM A653 WITH 660 COATING.
 - PRESERVATIVE-TREATED WOOD, FIRE-RETARDANT TREATED WOOD, OR EXTERIOR EXPOSURE: MINIMUM 0.035 INCH THICK, TYPE 304 STAINLESS STEEL SHEET CONFORMING TO ASTM A666.
 - ENGAGE PROFESSIONAL ENGINEER LICENSED IN STATE OF PROJECT TO PERFORM STRUCTURAL DESIGN OF TRUSSES. PROFESSIONAL ENGINEER SHALL CERTIFY DESIGN AND AFFIX SEAL TO TRUSS SHOP DRAWINGS.
 - DESIGN ROOF TRUSSES FOR FOLLOWING LOADS AND DEFLECTION LIMITS:
 - TOP CHORD DEAD; 10 PSF
 - BOT CHORD DEAD; 5 PSF
 - TOP CHORD ROOF LIVE; 20 PSF
 - TOP CHORD SNOW; AS INDICATED IN STRUCTURAL DESIGN CRITERIA
 - LIVE/SNOW LOAD DEFLECTION LIMIT; SPAN / 240
 - FURNISH METAL FRAMING CONNECTIONS AND FASTENERS REQUIRED FOR TRUSS-TO-TRUSS CONNECTIONS.
- E. FASTENERS
- INSTALL FASTENERS OF TYPE, DIAMETER, AND LENGTH AS INDICATED. COMPLY WITH MINIMUM REQUIREMENTS OF FASTENING SCHEDULE.
 - NAILS, SPIKES, AND STAPLES; ASTM F1661
 - POWER-DRIVEN FASTENERS; NES NER-212
 - WOOD SCREWS; ASME B18.6.1
 - LAG SCREWS; ASME B18.6.1
 - SDS SCREWS; SIMPSON STRONG-TIE, STRONG-DRIVE
 - SDMS SCREWS; SIMPSON STRONG-TIE, STRONG-DRIVE
 - CARBON STEEL BOLTS, NUTS, WASHERS; ASTM A307 / ASTM A563
 - STAINLESS STEEL BOLTS, NUTS, WASHERS; ASTM F593 / ASTM F594
 - FASTENERS USED IN PRESERVATIVE-TREATED WOOD OR FIRE-RETARDANT TREATED WOOD:
 - INTERIOR EXPOSURE; HOT-DIP GALVANIZED, ASTM A193
 - EXTERIOR EXPOSURE OR AREAS OF HIGH HUMIDITY; TYPE 304 STAINLESS STEEL
 - EXTERIOR EXPOSURE EXPOSED TO DEICING SALTS; TYPE 316 STAINLESS STEEL
 - NAILS SHALL BE COMMON NAILS WITH THE FOLLOWING UNCOATED DIMENSIONS UNLESS INDICATED:
 - 2d 2 1/2 INCH X 0.131 INCH
 - 10d 3 INCH X 0.148 INCH
 - 12d 3 1/4 INCH X 0.148 INCH
 - 16d 3 1/2 INCH X 0.162 INCH
 - 20d 4 INCH X 0.142 INCH
 - NAILS, LAG SCREWS, AND WOOD SCREWS SHALL PENETRATE MINIMUM OF TEN TIMES THEIR DIAMETER INTO MAIN MEMBER.
 - INSTALL FLAT WASHER UNDER HEAD AND NUT OF BOLTS AND LAG SCREWS.
- F. METAL FRAMING CONNECTORS
- FURNISH MANUFACTURED METAL FRAMING CONNECTORS AS INDICATED OR AS REQUIRED TO RESIST APPLIED LOADS AND TO SECURELY ANCHOR AND CONNECT WOOD MEMBERS.
 - DESIGN-BASIS FRAMING CONNECTORS ARE STANDARD PRODUCTS OF SIMPSON STRONG-TIE COMPANY, INC. USING FASTENERS REQUIRED FOR MAXIMUM STRENGTH OF CONNECTOR. SUBSTITUTION REQUEST FOR CONNECTOR OF ANOTHER MANUFACTURER SHALL BE ACCOMPANIED BY DATA SHOWING EQUIVALENT CAPACITY TO THE DESIGN BASIS CONNECTOR.
 - NOTIFY ENGINEER WHEN STANDARD FRAMING CONNECTORS ARE UNSUITABLE FOR REQUIRED CAPACITY, MEMBER SIZE, PITCH, SKEW, AND MATERIAL.
 - WHEN SPECIFIC FRAMING CONNECTORS ARE NOT INDICATED, FURNISH THE CONNECTORS OF FOLLOWING SIMPSON STRONG-TIE SERIES SUITABLE FOR THE SPECIFIED LOADS AND CONDITIONS.
 - SHEAR WALL HOLD DOWNS; HDU, SDS SCREWS, SB ANCHOR BOLTS
 - ROOF TRUSS TO DOUBLE PLATE CONNECTION
 - SPAN LESS THAN OR EQUAL TO 40 FEET; H10A
 - SPAN GREATER THAN 40 FEET; H14
 - FRAMING CONNECTORS AND FASTENERS USED FOR PRESERVATIVE-TREATED WOOD OR FIRE-RETARDANT TREATED WOOD:
 - INTERIOR EXPOSURE: HOT-DIP GALVANIZED, ASTM A193
- G. PRESERVATIVE TREATMENT
- PRESSURE TREAT WOOD AND WOOD PRODUCTS REQUIRING PRESERVATIVE TREATMENT WITH WATER-BORNE PRESERVATIVES IN ACCORDANCE WITH ANPA U1. DRY WOOD AFTER TREATMENT TO MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
 - INSTALL PRESERVATIVE-TREATED WOOD IN THE FOLLOWING LOCATIONS:
 - WOOD EXPOSED TO WEATHER USE CATEGORY UC3B.
 - WOOD IN CONTACT WITH EARTH. USE CATEGORY UC4A.
 - WOOD FLOOR CONSTRUCTION INCLUDING POSTS, GIRDERS, SUBFLOOR, AND JOISTS, WHERE SUBFLOOR OR WOOD JOISTS ARE CLOSER THAN 18 INCHES TO EXPOSED EARTH OR WOOD GIRDERS ARE CLOSER THAN 12 INCHES TO EXPOSED EARTH IN CRAWL AND UNEXCAVATED SPACES. USE CATEGORY UC2.
 - WOOD FRAMING MEMBERS, BLOCKING, AND FURRINS ATTACHED TO THE INTERIOR SURFACE OF EXTERIOR MASONRY WALLS BELOW GRADE. USE CATEGORY UC2.
 - WOOD MEMBERS INCLUDING SHEATHING RESTING ON EXTERIOR FOUNDATION WALLS AND LESS THAN 8 INCH FROM EXPOSED EARTH. USE CATEGORY UC3A.
 - SLEEPERS AND SILLS ON CONCRETE SLABS-ON-GRADE. USE CATEGORY UC2.
 - WOOD POSTS OR COLUMNS SUPPORTED ON CONCRETE SLAB OR FOOTING IN DIRECT CONTACT WITH THE EARTH UNLESS THE BOTTOM OF POST OR COLUMN IS LOCATED MORE THAN 6 INCH ABOVE EXPOSED EARTH AND SUPPORTED ON 1 INCH MINIMUM STAND-OFF POST BASE. USE CATEGORY UC3B.
- H. FIRE-RETARDANT TREATMENT
- INSTALL FIRE-RETARDANT TREATED WOOD WHERE INDICATED.
 - FIRE-RETARDANT WOOD, WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL T23, SHALL HAVE A LISTED FLAME SPREAD INDEX OF 25 OR LESS, SHOW NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN TEST IS CONTINUED FOR ANOTHER 20 MINUTES. FLAME FRONT SHALL NOT PROGRESS MORE THAN 10 1/2 FEET BEYOND CENTERLINE OF BURNERS AT ANY TIME DURING TEST.
 - DRY WOOD AFTER TREATMENT TO MAXIMUM MOISTURE CONTENT OF 19 PERCENT.

WOOD FRAMING - CONT'

- INTERCONNECT PLIES OF MULTI-PLY POST, COLUMNS, BEAMS, HEADERS, AND GIRDERS WITH TWO ROWS OF SIMPSON SDN SCREWS AT 16 INCH MAXIMUM CENTERS. FASTENERS SHALL HAVE SUFFICIENT LENGTH TO FULLY PENETRATE ALL PLIES.
- BRACE JOISTS AND RAFTERS AT BEARING LOCATIONS WITH BRIDGING OR FULL DEPTH BLOCKING. WHEN BOTH EDGES OF JOIST AND RAFTERS ARE NOT LaterALLY SUPPORTED BY SHEATHING OR GYPSUM BOARD, INSTALL BRACING AT 8 FEET MAXIMUM CENTERS.
- WHERE JOIST, RAFTER OR TRUSS IS OFFSET MORE THAN 4 INCH FROM CLOSEST STUD, REINFORCE TOP PLATE WITH SOLID BLOCKING, ADDITIONAL STUD, OR THIRD TOP PLATE.
- INSTALL MEMBERS IN ONE PIECE BETWEEN POINTS OF SUPPORT UNLESS INDICATED.
- ANCHOR BOTTOM PLATES AND SILL PLATES TO FOUNDATIONS AND SUPPORTING FRAMING.
 - ANCHOR PLATES TO FOUNDATION AND SLABS WITH ANCHORS AT 4 FEET MAXIMUM SPACING USING MINIMUM 1/2 INCH DIAMETER ANCHORS FOR 2X4 PLATES AND MINIMUM 5/8 INCH DIAMETER ANCHORS FOR 2X6 AND WIDER PLATES UNLESS INDICATED. EMBED ANCHORS MINIMUM OF 6 INCHES.
 - ANCHOR PLATES TO WIDE FLANGE STEEL BEAMS WITH MINIMUM 1/2 INCH DIAMETER BOLTS AT 2 FEET MAXIMUM SPACING UNLESS INDICATED. STAGGER BOLTS ON OPPOSITE SIDES OF BEAM WEB.
- SHEAR WALLS: ALL EXTERIOR WALLS ARE SHEAR WALLS REQUIRED TO RESIST LATERAL LOADS IN THE PLANE OF THE WALL.
 - CONSTRUCT MINIMUM OF TWO-PLY POSTS AT EACH END OF SHEAR WALLS AND ANCHOR POSTS TO FOUNDATIONS OR OTHER SUPPORTING CONSTRUCTION WITH SHEAR WALL HOLD-DOWNS.
 - ANCHOR BOTTOM PLATE OF SHEAR WALLS TO FOUNDATION OR OTHER SUPPORTING CONSTRUCTION WITH SPECIFIED ANCHORS WITH STEEL PLATE WASHER NOT LESS THAT 2 1/2 INCH X 2 1/2 INCH X 1/4 INCH UNDER EACH NUT. PLATE WASHER SHALL EXTEND TO WITHIN 1/2 INCH OF SHEATHING.
- HOLES AND NOTCHES
 - DO NOT NOTCH WALL STUDS UNLESS SHOWN OR APPROVED IN WRITING BY ENGINEER. ROUND HOLES NOT EXCEEDING 1/4 INCH DIAMETER MAY BE LOCATED AT CENTERLINE OF STUD. MULTIPLE HOLES SHALL BE SPACED AT 2 FEET MINIMUM CENTERS.
 - DO NOT NOTCH DIMENSION LUMBER JOIST OR RAFTERS UNLESS SHOWN OR APPROVED IN WRITING BY ENGINEER. HOLES NOT EXCEEDING ONE SIXTH THE DEPTH OF THE JOIST AND NOT WITHIN 2 INCH OF TOP OR BOTTOM EDGE MAY BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. MULTIPLE HOLES SHALL BE SPACED NO CLOSER THAN THE TWICE THE DEPTH OF THE MEMBER AND SHALL BE LOCATED AT THE SAME RELATIVE DEPTH IN THE MEMBER.
 - DO NOT NOTCH OR CUT HOLES IN ANY TRUSS MEMBERS.

WOOD SHEATHING

- A. COMPLY WITH THE FOLLOWING:
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 (2018) EDITION (ANSI/APWC NDS-2015 (2018)).
 - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (ANSI/AF&PA SDPWS-2015).
- B. MATERIAL
- PLYWOOD CONFORMING TO DOC P51.
 - ORIENTED STRAND BOARD (OSB) CONFORMING TO DOC P52.
 - MINIMUM PANEL SIZE 4 FEET X 8 FEET EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING ORIENTATION. MINIMUM WIDTH OF PANEL = 12 INCH
- C. FASTENERS
- FASTENERS FOR ATTACHING TO WOOD FRAMING
 - COMMON NAILS: ASTM F1661 WITH FOLLOWING UNCOATED DIMENSIONS:
 - 8d 2 1/2 INCH X 0.131 INCH
 - 10d 3 INCH X 0.148 INCH
 - LOCATE FASTENERS MINIMUM OF 3/8 INCH FROM PANEL EDGES.
- D. ROOF SHEATHING
- ROOF SHEATHING: 15/32 INCH THICK, 24/16 INCH O.C. MINIMUM SPAN RATING, EXPOSURE I.
 - PLACE PANEL WITH LONG DIMENSION ACROSS SUPPORTS AND STAGGER JOINTS IN ADJACENT ROWS BY 4 FEET
 - CENTER JOINTS OVER AND ATTACH TO COMMON FRAMING MEMBERS.
 - FASTEN PANELS TO FRAMING MEMBERS AND BLOCKING WITH NAILS OR SCREWS. USE 8d COMMON NAILS FOR FASTENING TO WOOD FRAMING.
 - FASTENER SPACING:
 - PANEL EDGES; 6 INCH, UNLESS INDICATED OTHERWISE
 - INTERMEDIATE SUPPORTS; 12 INCH
- E. WALL SHEATHING
- WALL SHEATHING: 15/32, THICK, 24/16 INCH O.C. MINIMUM SPAN RATING, EXPOSURE I.
 - CENTER JOISTS OVER AND ATTACH TO COMMON STUDS AND COMMON BLOCKING
 - FASTEN PANELS TO FRAMING MEMBERS AND BLOCKING WITH 8D AND 10D COMMON NAILS AS INDICATED.
 - FASTENER SPACING:
 - PANEL EDGES; 6 INCH
 - INTERMEDIATE SUPPORTS; 12 INCH



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PROPERTY OWNER CONTACT:

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734-384-2705

kbrener@monroecommunitycu.org

STRUCTURAL
NOTES

NOT FOR CONSTRUCTION	
03-06-26	BIDS
DATE:	ISSUED FOR:
DRAWN	KMB
REVIEW'D	JSJ
202543	

S-3

KEYNOTE LEGEND

1. DOORS, STOREFRONT GLASS & ANGLED WALL REMOVED

2. REMOVE CANOPY OVERHANGS IN ITS ENTIRETY.

3. ATM REMOVED BY OTHERS

4. GAS METER REMOVED BY UTILITY COMPANY

5. LAY-IN CEILING GRID, ACOUSTICAL TILES, LIGHT FIXTURES, DIFFUSERS, SPEAKERS, ETC. REMOVED

6. FLOORING REMOVED (CARPET, CERAMIC TILES, ETC.)

7. STOREFRONT DOORS & GLAZING REMOVED.

8. WALL REMOVED.

9. DOOR REMOVED

10. TELLER LINE CABINETRY & ASSOCIATED ELECTRICAL WORK REMOVED.

11. SLOPED CONCRETE SLAB FLOOR REMOVED.

12. CUBICAL WALLS REMOVED, SALVAGED AND TURNED OVER TO OWNER.

13. FURNACE REMOVED.

14. DUCT PIPING REMOVED.

15. CABINETRY REMOVED

16. DRIVE THRU AIR TUBES REMOVED.

17. WALL / GYPSUM BOARD PANELS REMOVED (FUR STRIPING TO REMAIN).
18. TOILET ROOM FIXTURES VANITY, SINK, URINAL, TOILET & ASSOCIATED PLUMBING REMOVED.

19. WALL REMOVED FOR NEW DOOR LOCATION.

20. COUNTER TOP, CABINETS & SINK REMOVED.

21. CLOSET WALLS & DOORS REMOVED.

22. PARTIAL WALL REMOVED.

23. BRICK VENEER REMOVED.

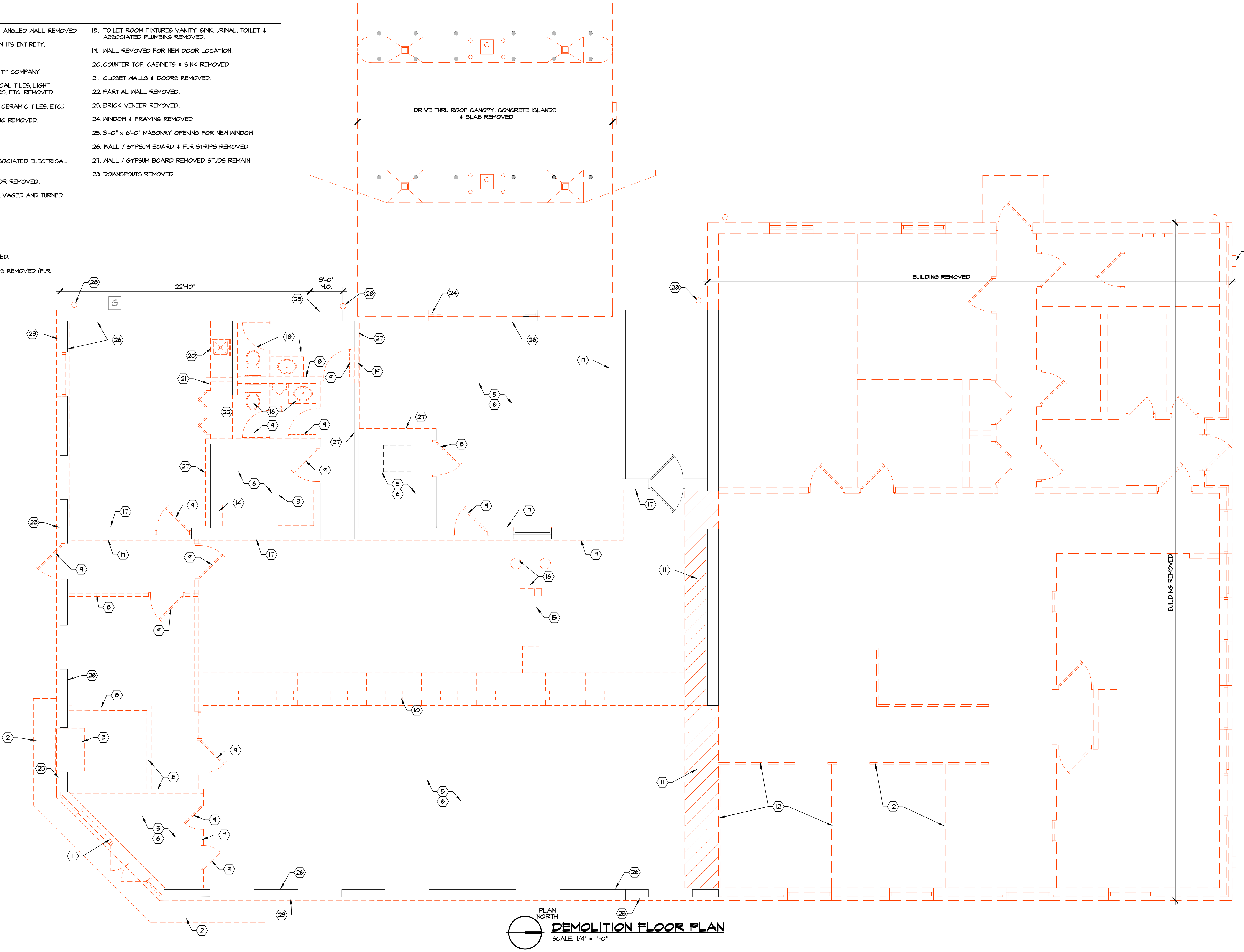
24. WINDOW & FRAMING REMOVED

25. 3'-0" x 6'-0" MASONRY OPENING FOR NEW WINDOW

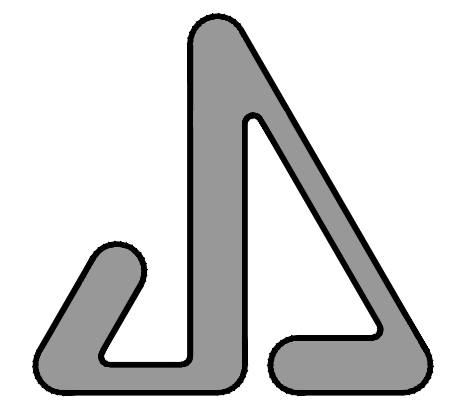
26. WALL / GYPSUM BOARD & FUR STRIPS REMOVED

27. WALL / GYPSUM BOARD REMOVED STUDS REMAIN

28. DOWNSPOUTS REMOVED



PLAN NORTH
DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"



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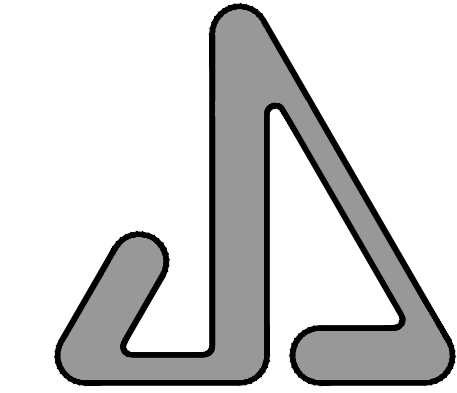
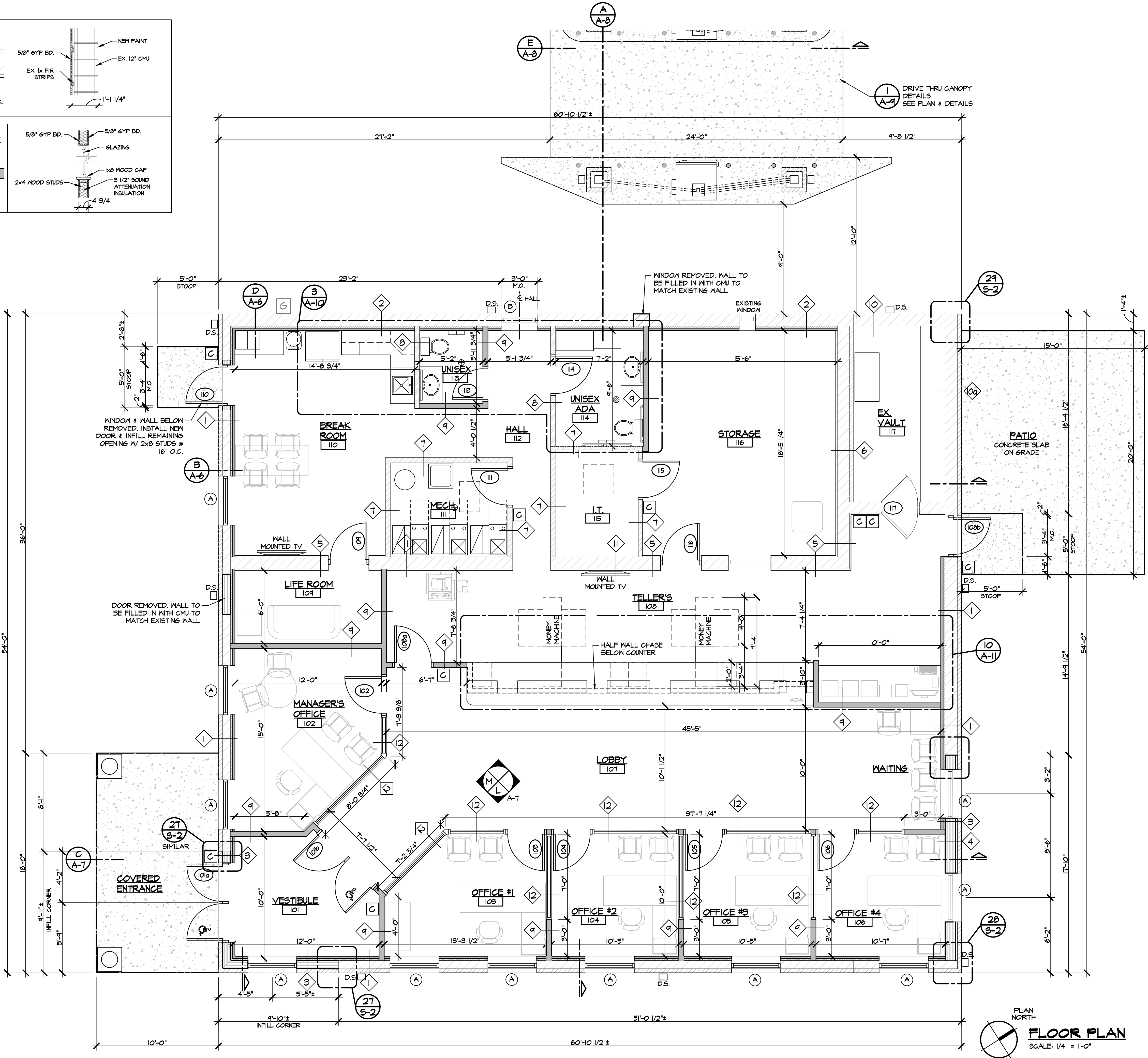
**DEMOLITION
FLOOR PLAN**

NOT FOR CONSTRUCTION

03-06-26	BIDS
01-21-26	OWNER DESIGN MEETING
DATE:	ISSUED FOR:
DRAWN	KMB
REVIEW'D	JSJ
202543	

A-1

WALL LEGEND	
WALL TYPE 1 TYP. EXTERIOR CMU WALL W/ BRICK VENEER 	WALL TYPE 11 TYP. INTERIOR CMU WALL
WALL TYPE 2 TYP. EXTERIOR CMU EXPOSED WALL 	WALL TYPE 12 TYP. INTERIOR PARTIAL WALL W/ GLASS
WALL TYPE 3 TYP. EXTERIOR WOOD STUD WALL W/ BRICK VENEER 	
WALL TYPE 4 TYP. EXTERIOR WOOD STUD WALL W/ BRICK VENEER 	
WALL TYPE 5 TYP. INTERIOR CMU WALL 	
WALL TYPE 6 TYP. INTERIOR CMU WALL 	
WALL TYPE 7 TYP. INTERIOR STUD WALL 	
WALL TYPE 8 TYP. INTERIOR STUD WALL 	
WALL TYPE 9 TYP. INTERIOR STUD WALL 	
WALL TYPE 10 TYP. EXTERIOR CMU WALL 	
WALL TYPE 10a TYP. EXTERIOR CMU WALL 	



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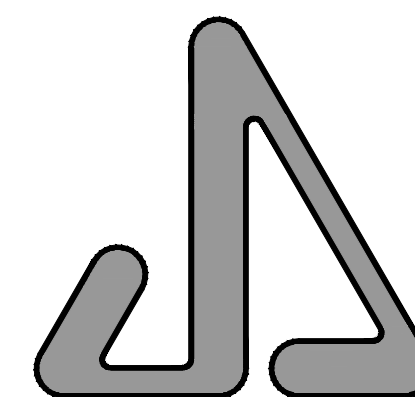
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FLOOR PLAN & WALL LEGEND

03-06-26	SIDS
02-09-26	SITE PLAN APPROVAL
01-20-26	OWNER DESIGN MEETING
11-23-25	HCCU BOARD MEETING
10-20-25	CITY MONROE PRE-DEV. MTG
09-29-25	DESIGN MEETING
09-03-25	DESIGN MEETING
DATE:	ISSUED FOR:
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REFLECTED
CEILING PLAN

03-06-26 BIDS
01-21-26 OWNER DESIGN MEETING
DATE: ISSUED FOR:

DRAWN KMB

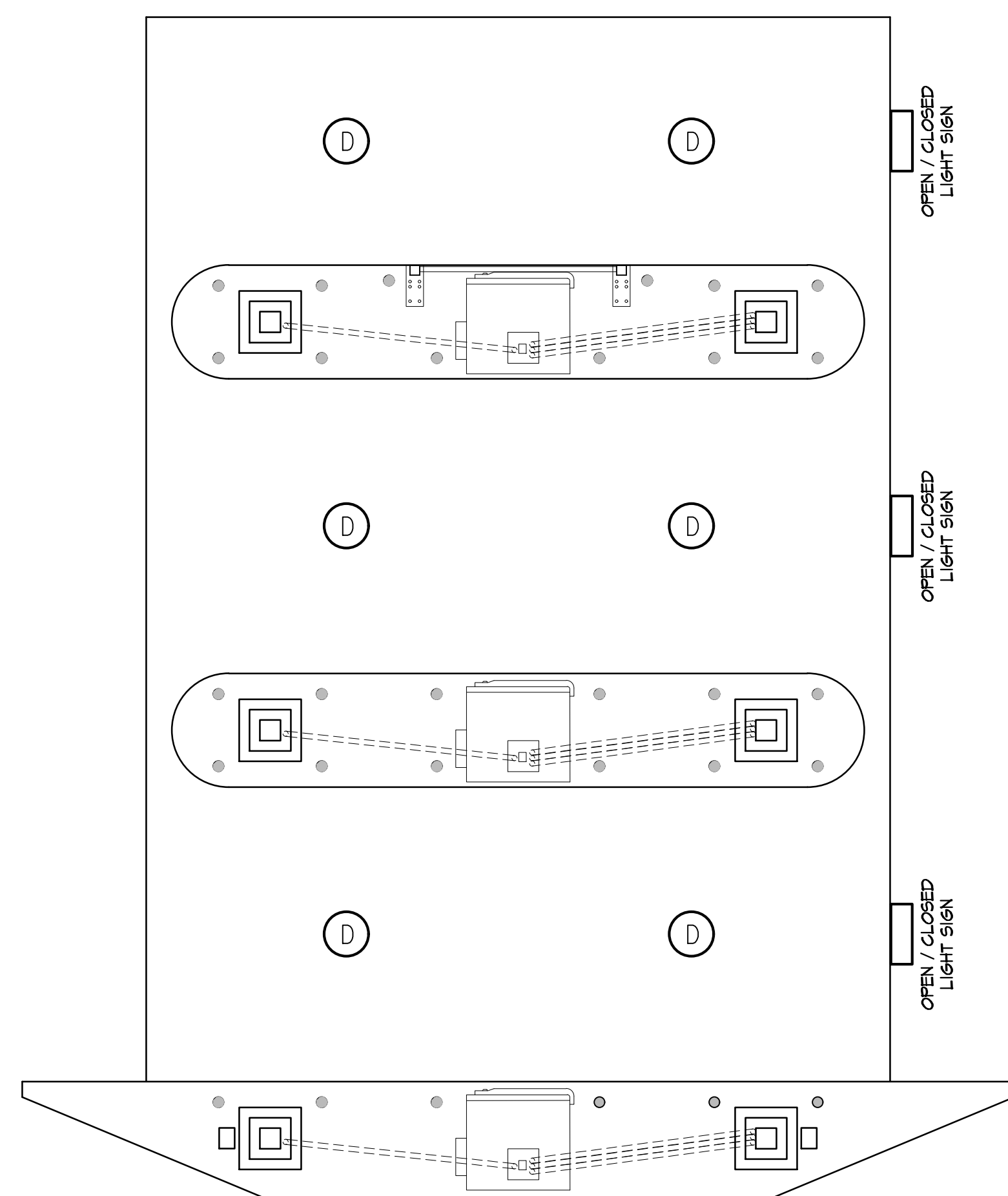
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A-3

3 OF 14

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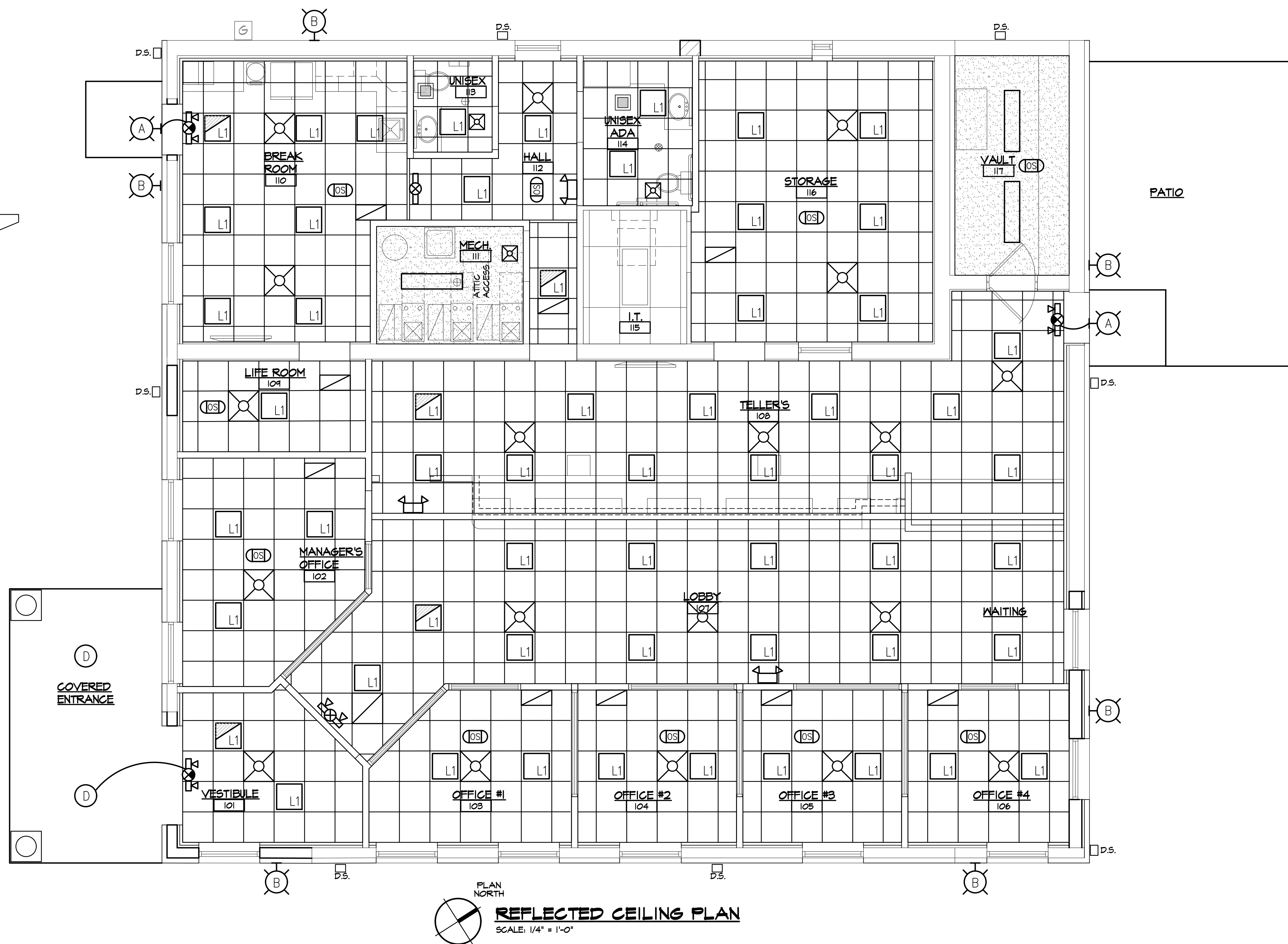
PLAN NORTH
**DRIVE-THRU CANOPY
REFLECTED CEILING PLAN**
SCALE: 1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

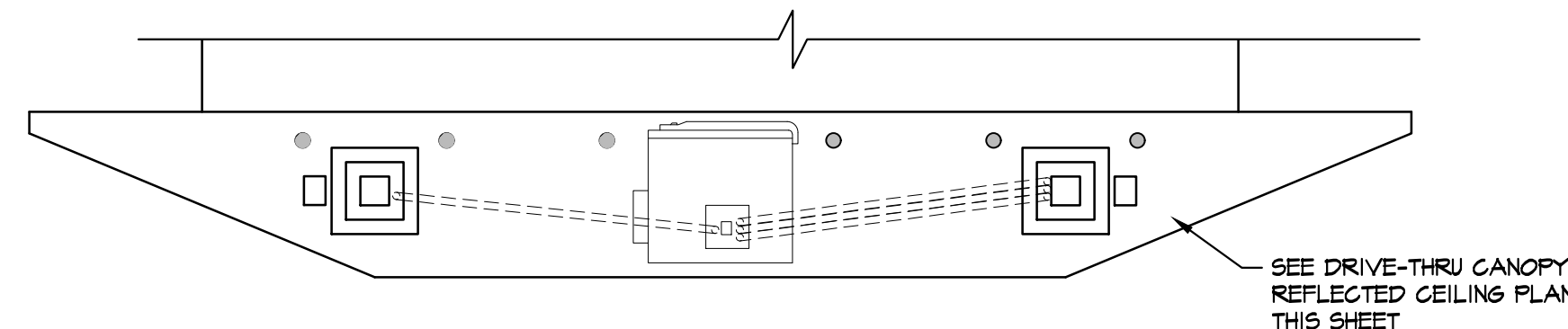
- EMERGENCY LIGHT & EXIT SIGN COMBINATION FIXTURE
- EMERGENCY EXIT SIGN
- EMERGENCY LIGHTING
- EMERGENCY LIGHT & EXIT SIGN COMBINATION w/ EXTERIOR LIGHTING
- 2' X 2' LED LAY-IN LIGHT FIXTURE
- 1' X 4' LED CEILING MOUNTED FIXTURE
- CEILING MOUNTED OCCUPANCY SENSOR
- EXTERIOR EMERGENCY EXIT LIGHTING
- EXTERIOR WALL MOUNTED LIGHT FIXTURE
- EXHAUST FAN
- HVAC SUPPLY GRILL
- RETURN AIR GRILL

2' X 2' ACOUSTICAL LAY-IN CEILING TILES & METAL GRID

GYPSUM BOARD FINISH (PAINTED)



PLAN NORTH
REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



SEE DRIVE-THRU CANOPY
REFLECTED CEILING PLAN
THIS SHEET

1. FOR FERM-A-BARRIER FLASHING DETAILS AT INSIDE AND OUTSIDE CORNERS SEE DETAIL 16 SHEET A-5
2. FOR FERM-A-BARRIER FLASHING DETAIL AT END DAM SEE DETAIL 17 SHEET A-5
3. FOR BRICK CONTROL JOINT DETAILS SEE DETAIL 15 SHEET A-5

ROOFING: OWENS CORNING, DURATION SHINGLES
LIMITED LIFETIME WARRANTY
COLOR: ONYX BLACK

BRICK: FRIENDSHIP BRICK & STONE
SAVANNAH BLEND & MORTAR TO MATCH EXISTING
(GRIT TIES, FLASHING & WEEP HOLES AS REQUIRED)

FASCIA: 1x8 AZEK TRIM BOARD WHITE TRADITIONAL FINISH

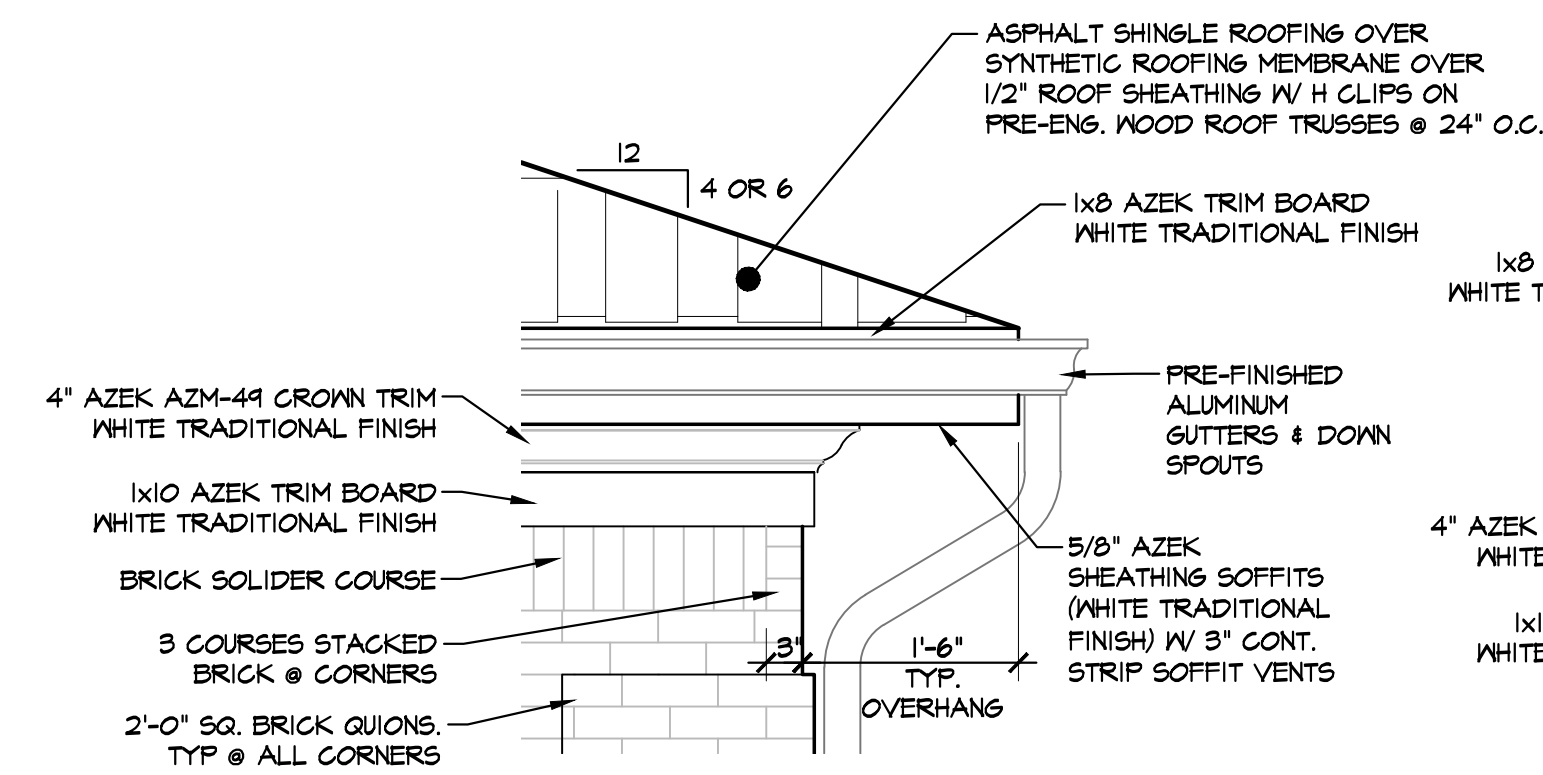
SOFFITS: 5/8" AZEK SHEATHING WHITE TRADITIONAL FINISH IV 3"
CONT. STRIP SOFFIT VENTS SIMILAR TO EXISTING

SOFFIT CROWN: 4" AZEK AZEK-44 CROWN TRIM WHITE TRADITIONAL
FINISH

FRIEZE BOARD: 1x10 AZEK TRIM BOARD WHITE TRADITIONAL FINISH

GUTTERS &
DOWNSPOUTS: 5" ALUMINUM, PRE-FINISHED 24 GA. GUTTERS
COLOR: WHITE, IV CONCEALED GUTTER HANGERS, 3"x4"
DOWN SPOUTS WITH ACCESSORIES AS REQUIRED TO
INSTALL, ELBOWS, END CAPS, CORNERS, CLIPS, ANCHOR
STRAPS, ETC.

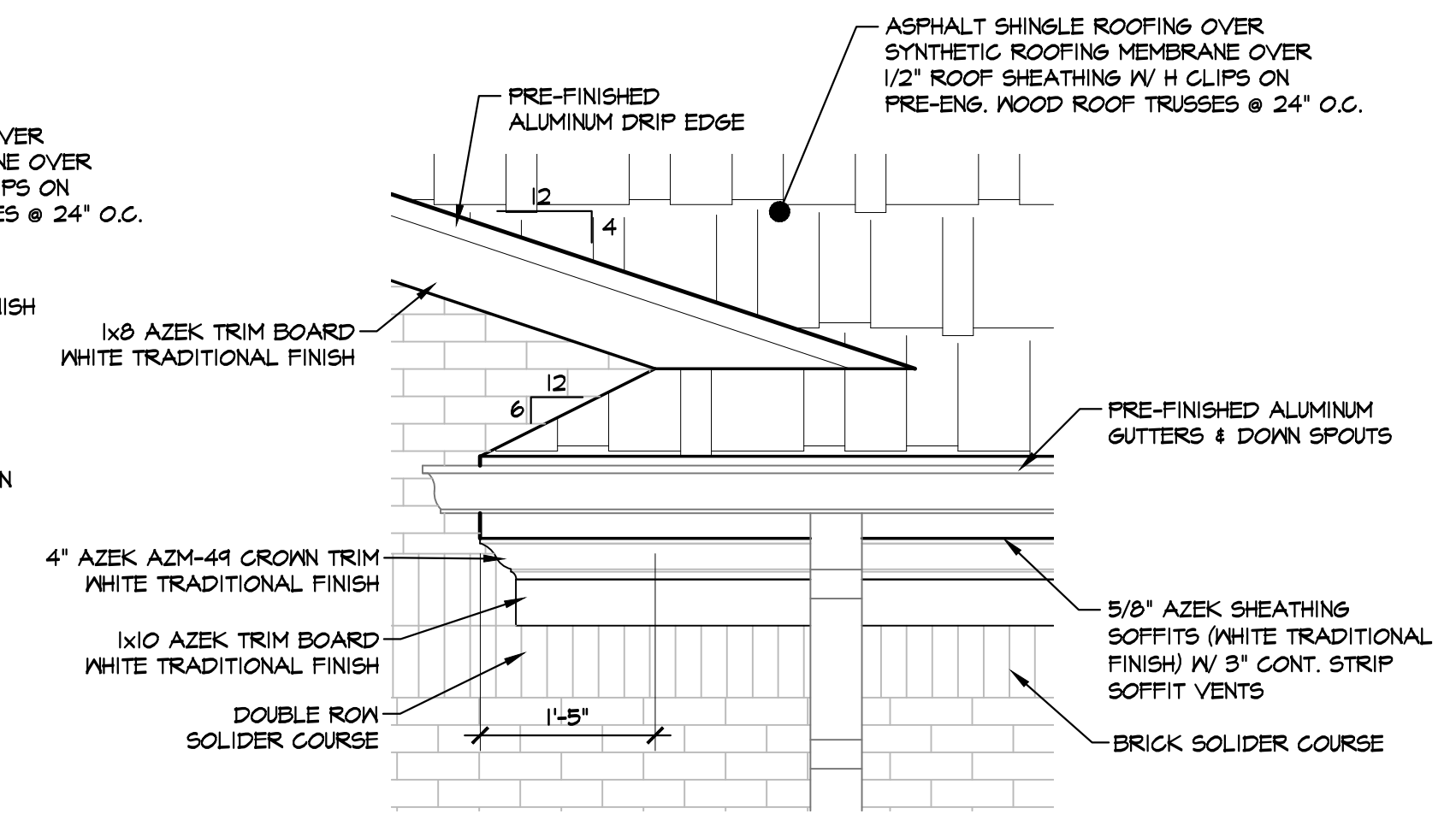
DECORATIVE
COLUMNS: DURA CLASSIC COMPOSITE FIBERGLASS COLUMNS
STYLE: TUSCAN #200DC (BOTTOM 20" DIA., TOP 17"
DIA.) PAINTED WHITE
BY: MELTON CLASSICS



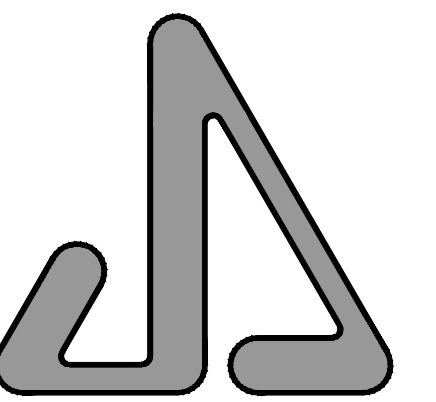
13
A-4

TYP. EAVE DETAIL

SCALE: 3/4" = 1'-0"



14 **TYP. EAVE RETURN DETAIL**
A-4 SCALE: 3/4" = 1'-0"



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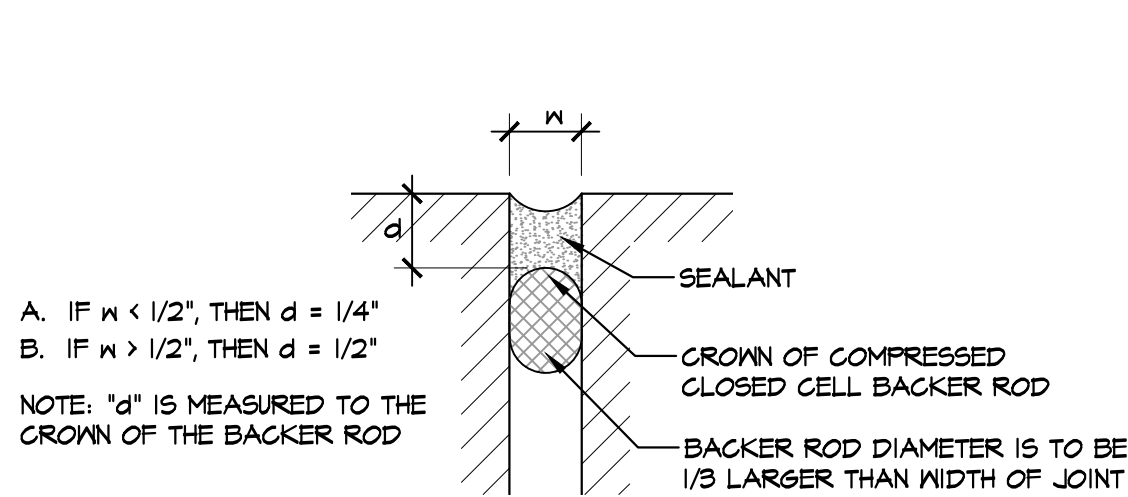
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brenner@monroecommunitycu.org

SOUTH & EAST ELEVATIONS

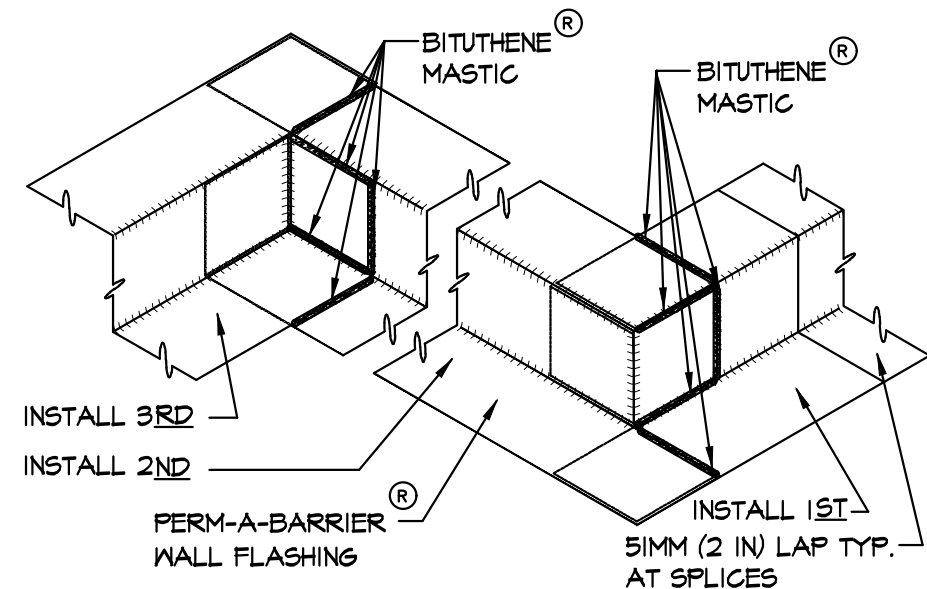
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A-4

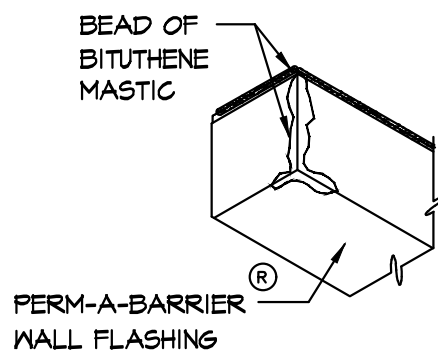
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15
A-4
BRICK CONTROL JOINT DETAIL
NO SCALE



16
PERM-A-BARRIER FLASHING DETAILS AT INSIDE AND OUTSIDE CORNERS
SCALE: NO SCALE



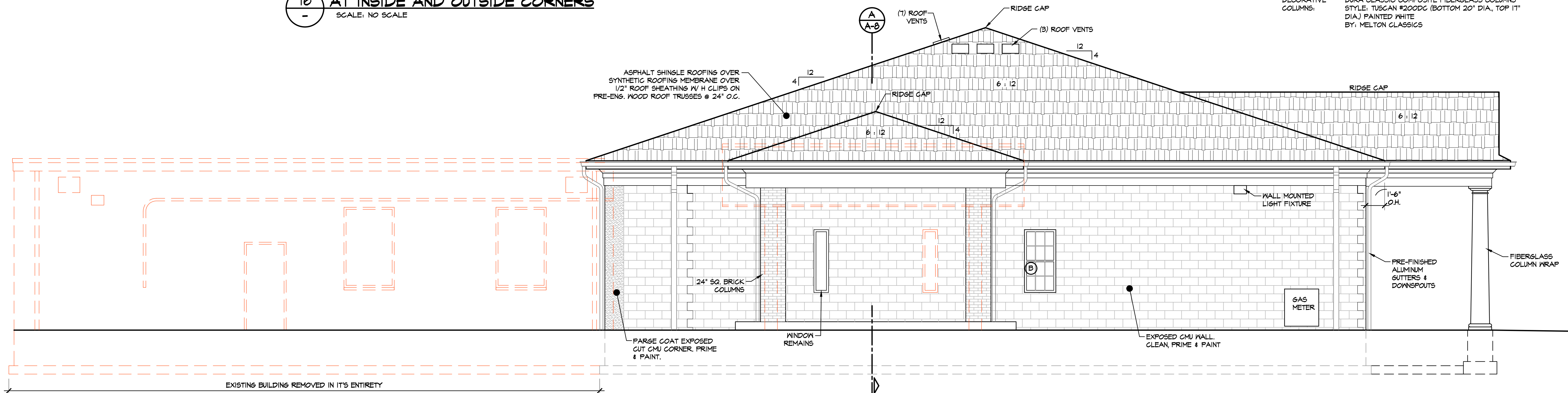
17
PERM-A-BARRIER FLASHING DETAILS AT END DAM
SCALE: NO SCALE

BRICK FLASHING DETAILS

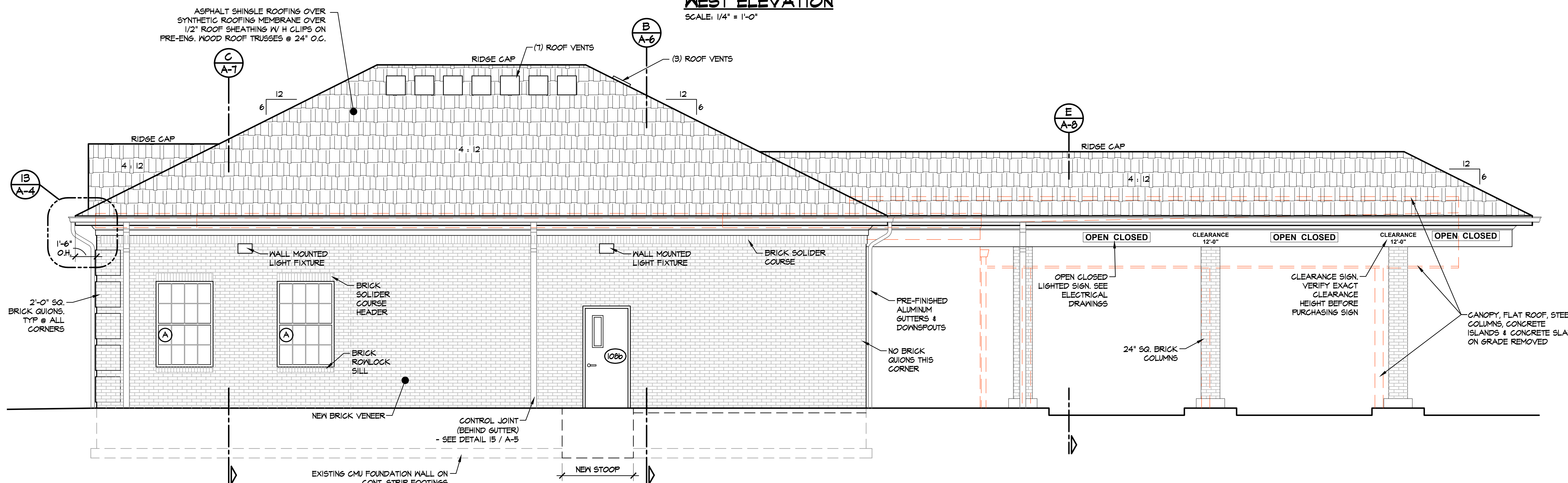
1. FOR PERM-A-BARRIER FLASHING DETAILS AT INSIDE AND OUTSIDE CORNERS SEE DETAIL 16 SHEET A-5
2. FOR PERM-A-BARRIER FLASHING DETAIL AT END DAM SEE DETAIL 17 SHEET A-5
3. FOR BRICK CONTROL JOINT DETAILS SEE DETAIL 15 SHEET A-5

EXTERIOR MATERIAL SELECTIONS

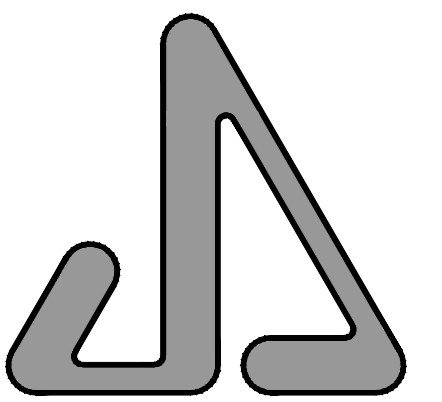
- ROOFING:** OWENS CORNING, DURATION SHINGLES
LIMITED LIFETIME WARRANTY
COLOR: ONYX BLACK
- BRICK:** FRIENDSHIP BRICK & STONE
SAVANNAH BLEND & MORTAR TO MATCH EXISTING
(BRICK TIES, FLASHING & KEEP HOLES AS REQUIRED)
- FASCIA:** 1x8 AZEK TRIM BOARD WHITE TRADITIONAL FINISH
- SOFFITS:** 5/8\"/>



WEST ELEVATION
SCALE: 1/4\"/>



NORTH ELEVATION
SCALE: 1/4\"/>



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NORTH & WEST
ELEVATIONS

03-06-26 BIDS
01-20-25 OWNER DESIGN MEETING
11-20-25 MCCU BOARD MEETING
10-20-25 CITY MONROE PRE-DEV. MTG
09-29-25 DESIGN MEETING
09-03-25 DESIGN MEETING

DATE: ISSUED FOR:

DRAWN: KMB

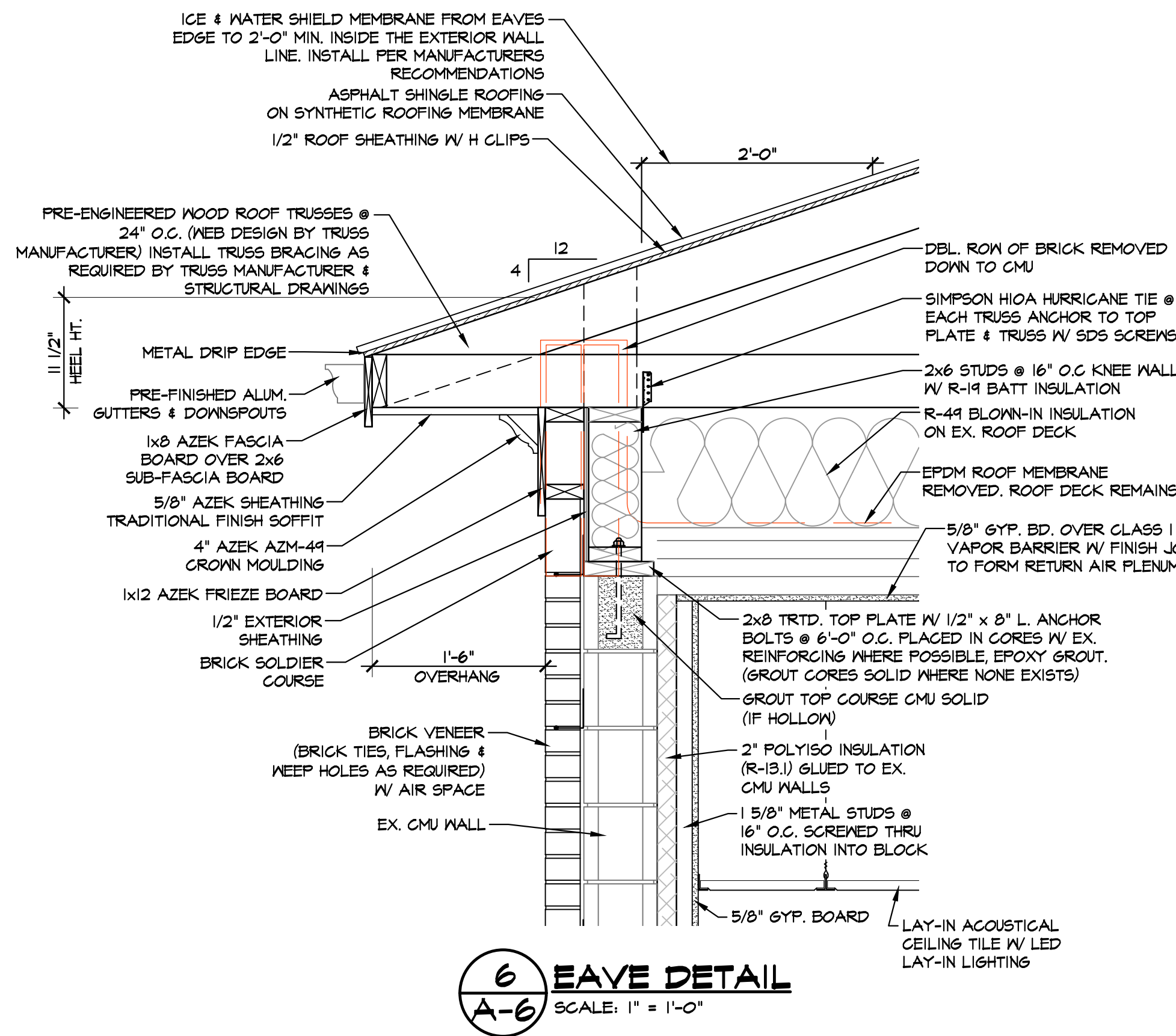
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A-5

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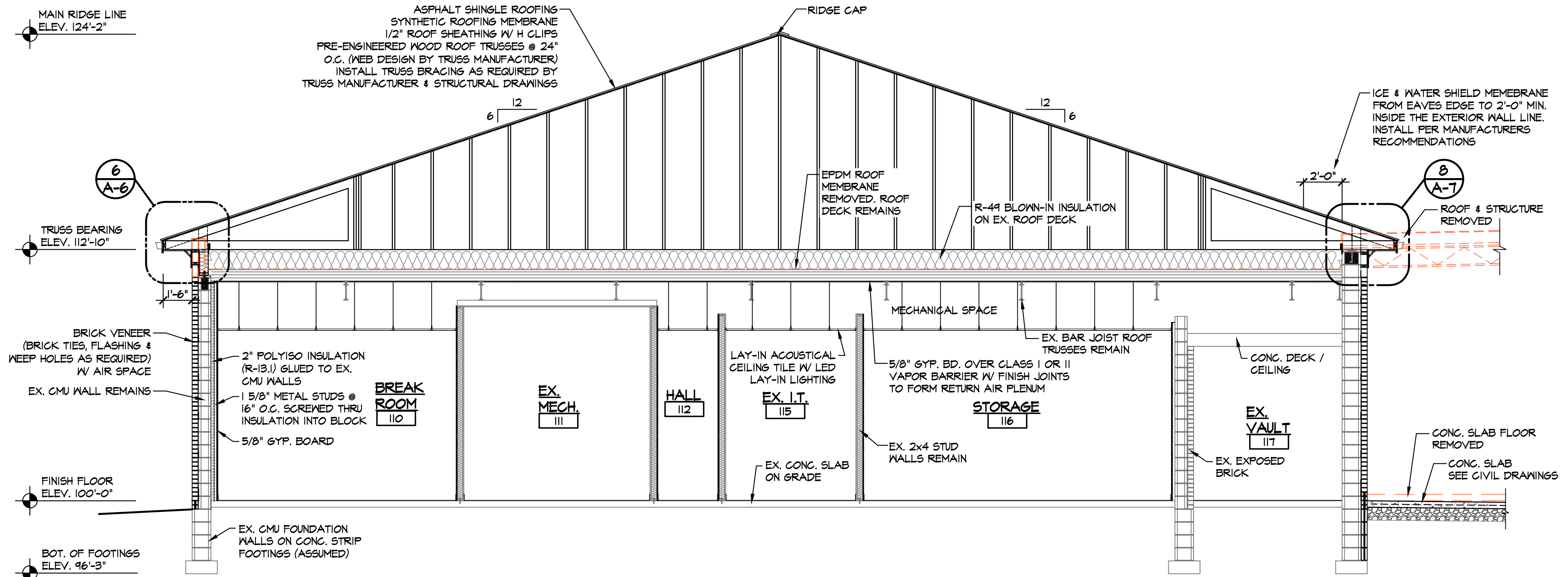


MAIN RIDGE LINE
ELEV. 124'-2"

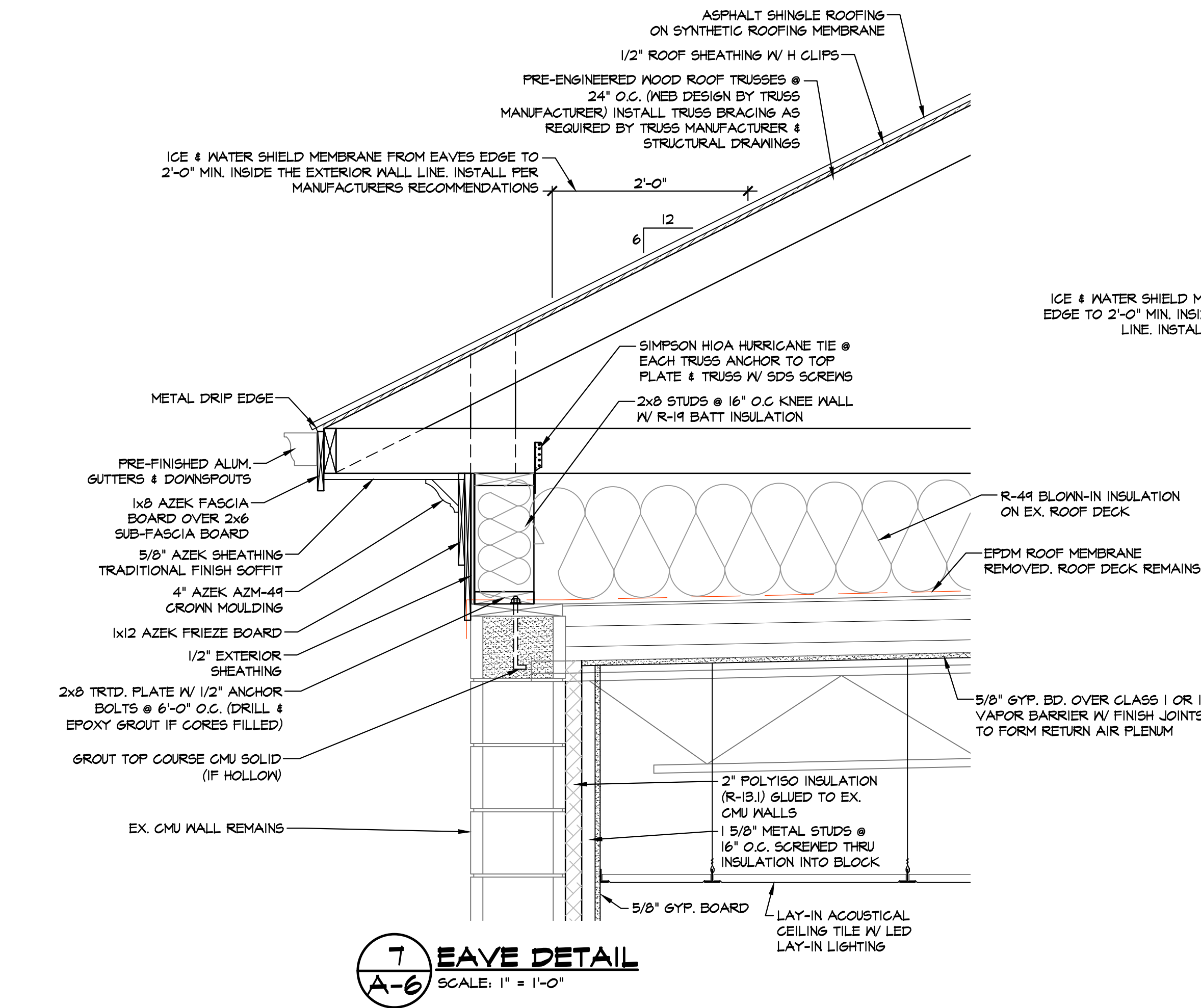
TRUSS BEARING
ELEV. 112'-10"

FINISH FLOOR
ELEV. 100'-0"

BOT. OF FOOTINGS
ELEV. 96'-3"



B BUILDING SECTION
SCALE: 1/4" = 1'-0"



ICE & WATER SHIELD MEMBRANE FROM EAVES
EDGE TO 2'-0" MIN. INSIDE THE EXTERIOR WALL
LINE. INSTALL PER MANUFACTURERS
RECOMMENDATIONS

2'-0"

12

6

METAL DRIP EDGE

PRE-FINISHED ALUM.
GUTTERS & DOWNSPOUTS

1x8 AZEK FASCIA
BOARD OVER 2x6
SUB-FASCIA BOARD

5/8" AZEK SHEATHING
TRADITIONAL FINISH SOFFIT

4" AZEK AZM-44
CROWN MOULDING

1x12 AZEK FRIEZE BOARD

1/2" EXTERIOR
SHEATHING

BRICK SOLDIER COURSE

1'-6" OVERHANGS

BRICK VENEER
(BRICK TIES, FLASHING &
KEEP HOLES AS REQUIRED)
W/ AIR SPACE

EX. CMU WALL REMAINS

2x8 TRTD. PLATE W/ 1/2" ANCHOR
BOLTS @ 6'-0" O.C. (DRILL &
EPOXY GROUT IF CORES FILLED)

GROUT TOP COURSE CMU SOLID
(IF HOLLOW)

2" POLYISO INSULATION
(R-19.1) GLUED TO EX.
CMU WALLS

1 5/8" METAL STUDS @
16" O.C. SCREWED THRU
INSULATION INTO BLOCK

5/8" GYP. BOARD

LAY-IN ACOUSTICAL
CEILING TILE W/ LED
LAY-IN LIGHTING

5/8" GYP. BD. OVER CLASS I OR II
VAPOR BARRIER W/ FINISH JOINTS
TO FORM RETURN AIR PLENUM

EPDM ROOF MEMBRANE
REMOVED, ROOF DECK REMAINS

R-44 BLOWN-IN INSULATION
ON EX. ROOF DECK

SIMPSON HIOA HURRICANE TIE @
EACH TRUSS ANCHOR TO TOP
PLATE & TRUSS W/ SDS SCREWS

2x8 STUDS @ 16" O.C. KNEE WALL
W/ R-19 BATT INSULATION

DBL. ROW OF BRICK REMOVED
DOWN TO CMU

ICE & WATER SHIELD MEMBRANE FROM EAVES
EDGE TO 2'-0" MIN. INSIDE THE EXTERIOR WALL
LINE. INSTALL PER MANUFACTURERS
RECOMMENDATIONS

2'-0"

12

6

METAL DRIP EDGE

PRE-FINISHED ALUM.
GUTTERS & DOWNSPOUTS

1x8 AZEK FASCIA
BOARD OVER 2x6
SUB-FASCIA BOARD

5/8" AZEK SHEATHING
TRADITIONAL FINISH SOFFIT

4" AZEK AZM-44
CROWN MOULDING

1x12 AZEK FRIEZE BOARD

1/2" EXTERIOR
SHEATHING

BRICK SOLDIER COURSE

1'-6" OVERHANGS

BRICK VENEER
(BRICK TIES, FLASHING &
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W/ AIR SPACE

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INSULATION INTO BLOCK

5/8" GYP. BOARD

LAY-IN ACOUSTICAL
CEILING TILE W/ LED
LAY-IN LIGHTING

5/8" GYP. BD. OVER CLASS I OR II
VAPOR BARRIER W/ FINISH JOINTS
TO FORM RETURN AIR PLENUM

EPDM ROOF MEMBRANE
REMOVED, ROOF DECK REMAINS

R-44 BLOWN-IN INSULATION
ON EX. ROOF DECK

SIMPSON HIOA HURRICANE TIE @
EACH TRUSS ANCHOR TO TOP
PLATE & TRUSS W/ SDS SCREWS

2x8 STUDS @ 16" O.C. KNEE WALL
W/ R-19 BATT INSULATION

DBL. ROW OF BRICK REMOVED
DOWN TO CMU

ICE & WATER SHIELD MEMBRANE FROM EAVES
EDGE TO 2'-0" MIN. INSIDE THE EXTERIOR WALL
LINE. INSTALL PER MANUFACTURERS
RECOMMENDATIONS

2'-0"

12

6

METAL DRIP EDGE

PRE-FINISHED ALUM.
GUTTERS & DOWNSPOUTS

1x8 AZEK FASCIA
BOARD OVER 2x6
SUB-FASCIA BOARD

5/8" AZEK SHEATHING
TRADITIONAL FINISH SOFFIT

4" AZEK AZM-44
CROWN MOULDING

1x12 AZEK FRIEZE BOARD

1/2" EXTERIOR
SHEATHING

BRICK SOLDIER COURSE

1'-6" OVERHANGS

BRICK VENEER
(BRICK TIES, FLASHING &
KEEP HOLES AS REQUIRED)
W/ AIR SPACE

EX. CMU WALL REMAINS

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BOLTS @ 6'-0" O.C. (DRILL &
EPOXY GROUT IF CORES FILLED)

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(IF HOLLOW)

2" POLYISO INSULATION
(R-19.1) GLUED TO EX.
CMU WALLS

1 5/8" METAL STUDS @
16" O.C. SCREWED THRU
INSULATION INTO BLOCK

5/8" GYP. BOARD

LAY-IN ACOUSTICAL
CEILING TILE W/ LED
LAY-IN LIGHTING

5/8" GYP. BD. OVER CLASS I OR II
VAPOR BARRIER W/ FINISH JOINTS
TO FORM RETURN AIR PLENUM

EPDM ROOF MEMBRANE
REMOVED, ROOF DECK REMAINS

R-44 BLOWN-IN INSULATION
ON EX. ROOF DECK

SIMPSON HIOA HURRICANE TIE @
EACH TRUSS ANCHOR TO TOP
PLATE & TRUSS W/ SDS SCREWS

2x8 STUDS @ 16" O.C. KNEE WALL
W/ R-19 BATT INSULATION

DBL. ROW OF BRICK REMOVED
DOWN TO CMU

ICE & WATER SHIELD MEMBRANE FROM EAVES
EDGE TO 2'-0" MIN. INSIDE THE EXTERIOR WALL
LINE. INSTALL PER MANUFACTURERS
RECOMMENDATIONS

2'-0"

12

6

METAL DRIP EDGE

PRE-FINISHED ALUM.
GUTTERS & DOWNSPOUTS

1x8 AZEK FASCIA
BOARD OVER 2x6
SUB-FASCIA BOARD

5/8" AZEK SHEATHING
TRADITIONAL FINISH SOFFIT

4" AZEK AZM-44
CROWN MOULDING

1x12 AZEK FRIEZE BOARD

1/2" EXTERIOR
SHEATHING

BRICK SOLDIER COURSE

1'-6" OVERHANGS

BRICK VENEER
(BRICK TIES, FLASHING &
KEEP HOLES AS REQUIRED)
W/ AIR SPACE

EX. CMU WALL REMAINS

2x8 TRTD. PLATE W/ 1/2" ANCHOR
BOLTS @ 6'-0" O.C. (DRILL &
EPOXY GROUT IF CORES FILLED)

GROUT TOP COURSE CMU SOLID
(IF HOLLOW)

2" POLYISO INSULATION
(R-19.1) GLUED TO EX.
CMU WALLS

1 5/8" METAL STUDS @
16" O.C. SCREWED THRU
INSULATION INTO BLOCK

5/8" GYP. BOARD

LAY-IN ACOUSTICAL
CEILING TILE W/ LED
LAY-IN LIGHTING

5/8" GYP. BD. OVER CLASS I OR II
VAPOR BARRIER W/ FINISH JOINTS
TO FORM RETURN AIR PLENUM

EPDM ROOF MEMBRANE
REMOVED, ROOF DECK REMAINS

R-44 BLOWN-IN INSULATION
ON EX. ROOF DECK

SIMPSON HIOA HURRICANE TIE @
EACH TRUSS ANCHOR TO TOP
PLATE & TRUSS W/ SDS SCREWS

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LINE. INSTALL PER MANUFACTURERS
RECOMMENDATIONS

2'-0"

12

6

METAL DRIP EDGE

PRE-FINISHED ALUM.
GUTTERS & DOWNSPOUTS

1x8 AZEK FASCIA
BOARD OVER 2x6
SUB-FASCIA BOARD

5/8" AZEK SHEATHING
TRADITIONAL FINISH SOFFIT

4" AZEK AZM-44
CROWN MOULDING

1x12 AZEK FRIEZE BOARD

1/2" EXTERIOR
SHEATHING

BRICK SOLDIER COURSE

1'-6" OVERHANGS

BRICK VENEER
(BRICK TIES, FLASHING &
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W/ AIR SPACE

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VAPOR BARRIER W/ FINISH JOINTS
TO FORM RETURN AIR PLENUM

EPDM ROOF MEMBRANE
REMOVED, ROOF DECK REMAINS

R-44 BLOWN-IN INSULATION
ON EX. ROOF DECK

SIMPSON HIOA HURRICANE TIE @
EACH TRUSS ANCHOR TO TOP
PLATE & TRUSS W/ SDS SCREWS

2x8 STUDS @ 16" O.C. KNEE WALL
W/ R-19 BATT INSULATION

DBL. ROW OF BRICK REMOVED
DOWN TO CMU

ICE & WATER SHIELD MEMBRANE FROM EAVES
EDGE TO 2'-0" MIN. INSIDE THE EXTERIOR WALL
LINE. INSTALL PER MANUFACTURERS
RECOMMENDATIONS

2'-0"

12

6

METAL DRIP EDGE

PRE-FINISHED ALUM.
GUTTERS & DOWNSPOUTS

1x8 AZEK FASCIA
BOARD OVER 2x6
SUB-FASCIA BOARD

5/8" AZEK SHEATHING
TRADITIONAL FINISH SOFFIT

4" AZEK AZM-44
CROWN MOULDING

1x12 AZEK FRIEZE BOARD

1/2" EXTERIOR
SHEATHING

BRICK SOLDIER COURSE

1'-6" OVERHANGS

BRICK VENEER
(BRICK TIES, FLASHING &
KEEP HOLES AS REQUIRED)
W/ AIR SPACE

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RECOMMENDATIONS

2'-0"

12

6

METAL DRIP EDGE

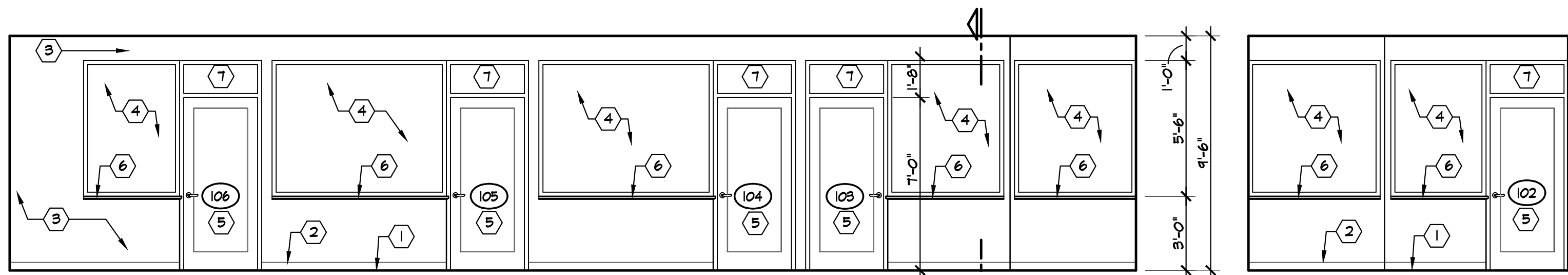
PRE-FINISHED ALUM.
GUTTERS & DOWNSPOUTS

1x8 AZEK FASCIA
BOARD OVER 2x6
SUB-FASCIA BOARD

5/8" AZEK SHEATHING
TRADITIONAL FINISH SOFFIT

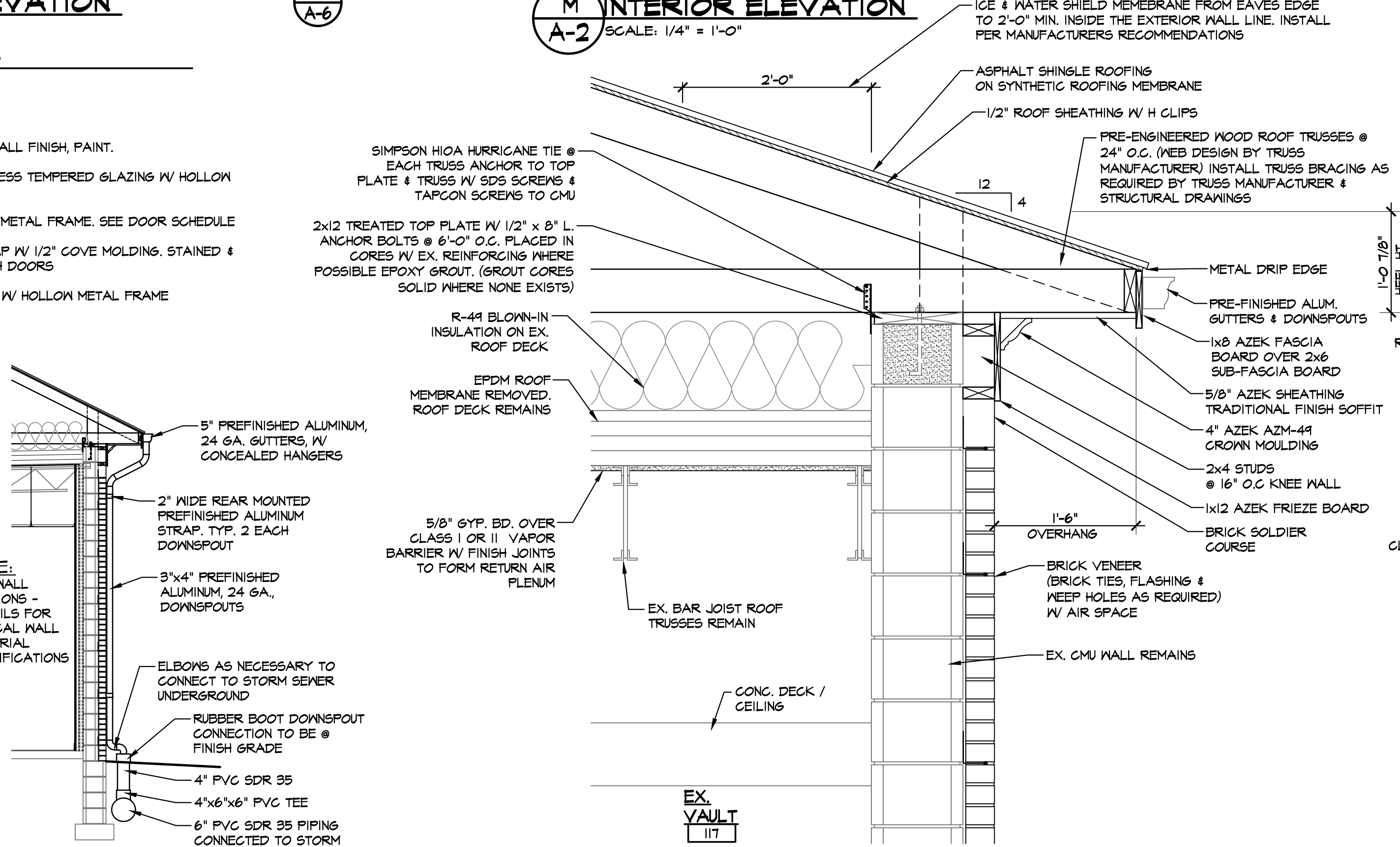
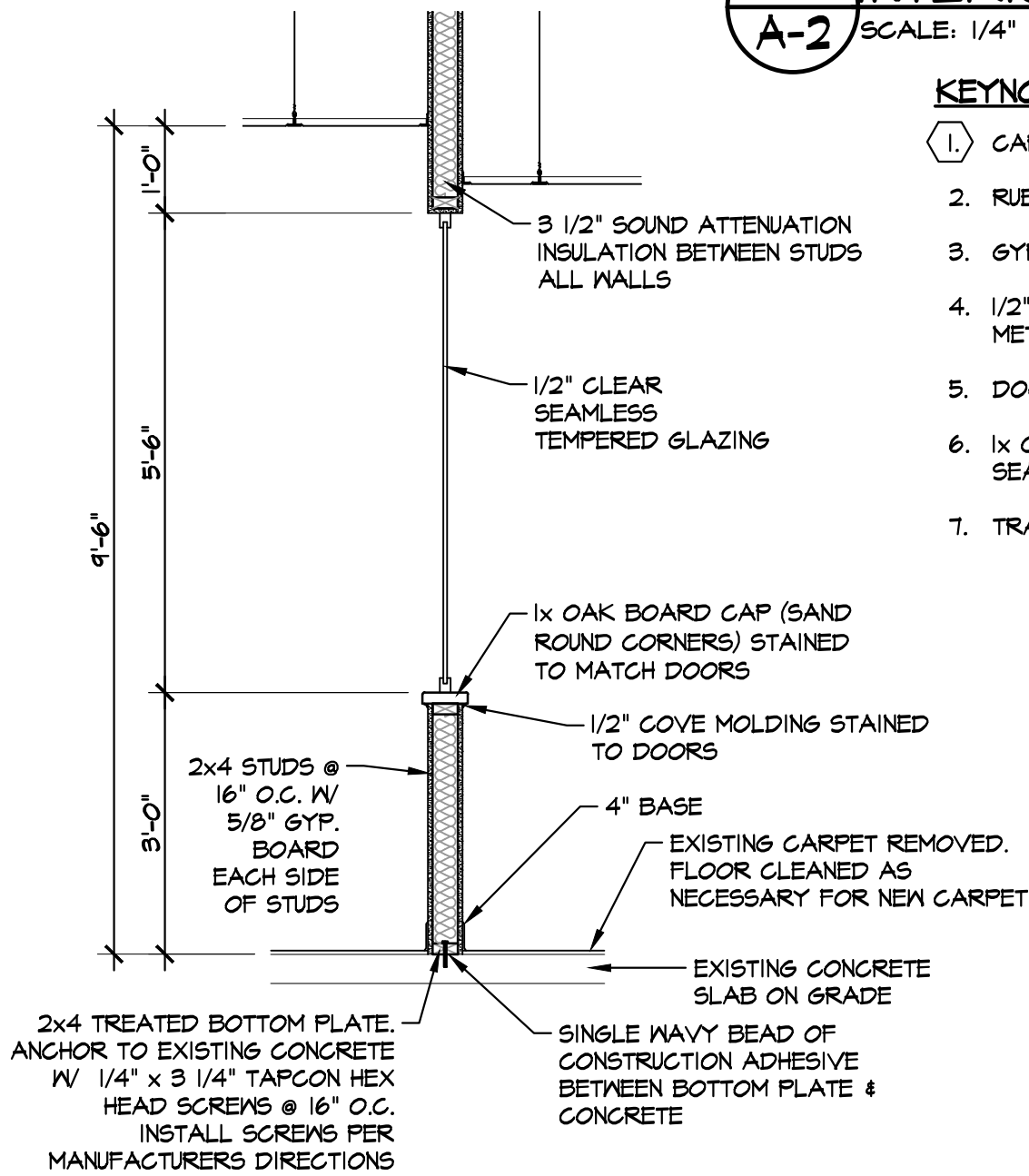
4" AZEK AZM-44
CROWN MOULDING

1x12 AZ



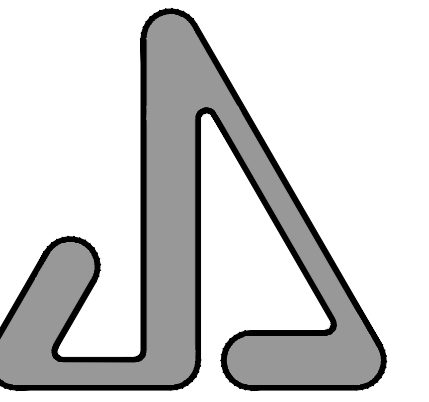
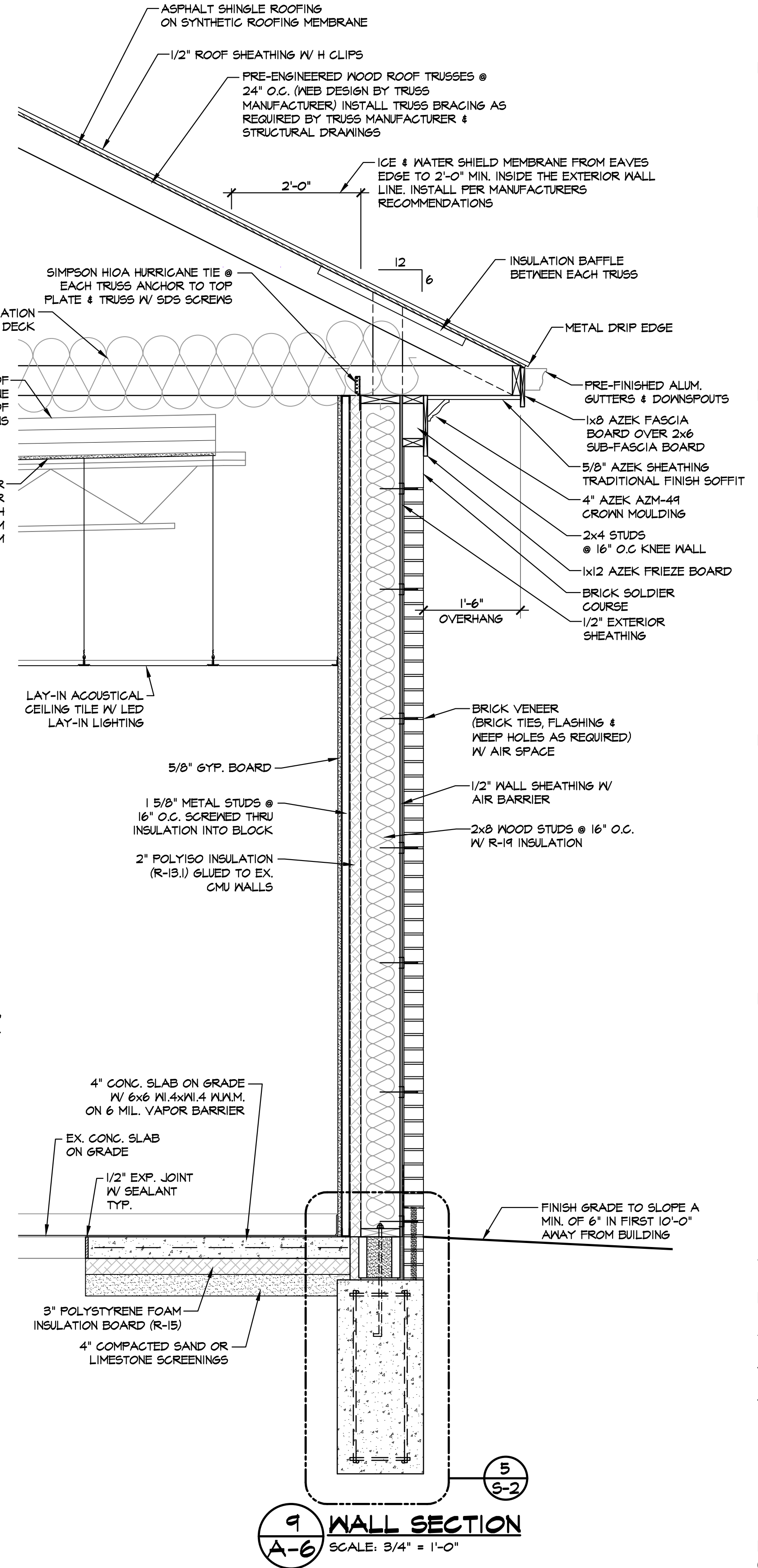
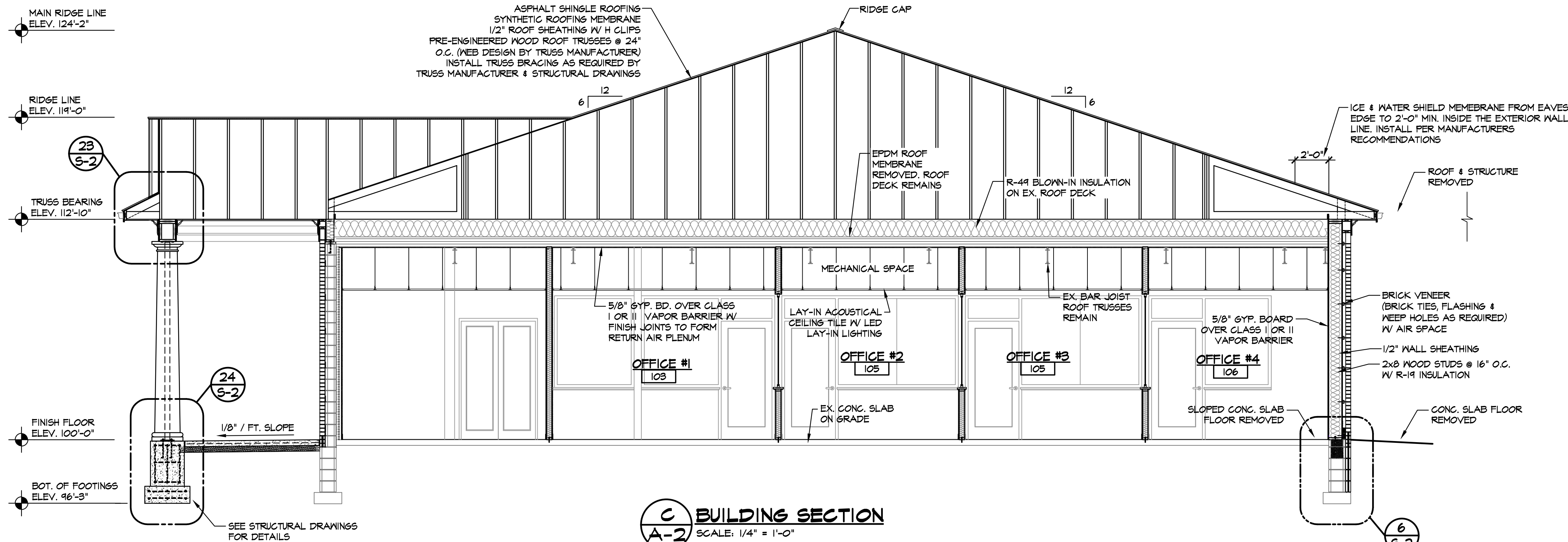
KEYNOTE LEGEND

1. CARPET TILES
2. RUBBER BASE
3. GYPSUM BOARD WALL FINISH, PAINT.
4. 1/2" CLEAR SEAMLESS TEMPERED GLAZING W/ HOLLOW METAL FRAME
5. DOOR W/ HOLLOW METAL FRAME. SEE DOOR SCHEDULE
6. 1x OAK BOARD CAP W/ 1/2" COVE MOLDINGS. STAINED & SEALED TO MATCH DOORS
7. TRANSOM WINDOW W/ HOLLOW METAL FRAME



9 GUTTER & DOWNSPOUT DETAIL

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



JAMES S. JACOBS ARCHITECTS, PLLC

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EMAIL: jim@jsjacobsarch.com

BUILDING RENOVATIONS,
REMODELING & SITE
IMPROVEMENTS FOR:



MONROE COMMUNITY CREDIT UNION

14 WINCHESTER STREET
MONROE, MI 48161

PROPERTY OWNER CONTACT:
KRISTINE BRENNER, CEO
715 TELEGRAPH ROAD
MONROE, MI 48162
734-384-2705
kbrenner@monroecommunitycu.org

BUILDING &
WALL SECTION
& DETAILS

NOT FOR CONSTRUCTION

03-06-26 BIDS
01-21-26 OWNER DESIGN MEETING

DATE: ISSUED FOR:

DRAWN: KMB

REVIEW'D: JSJ

202543

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TOILET ROOM ACCESSORIES

PROVIDE SOLID WOOD BLOCKING IN STUD WALLS FOR ALL TOILET ROOM ACCESSORIES (CONTRACTOR OR OWNER SUPPLIED)

MOUNT ALL ACCESSORIES PER ADA REQUIREMENTS

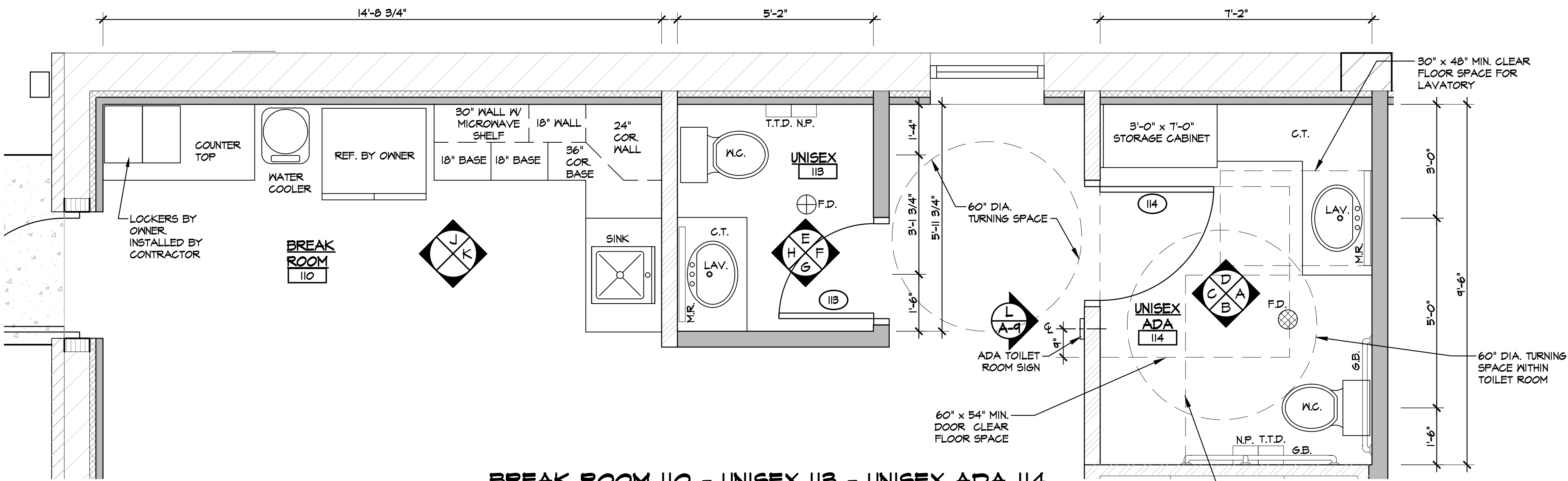
G.B.	GRAB BARS:	BRADLEY, #812, 18", 36" & 42", 1 1/2" DIA. 18 GA., STAINLESS STEEL, STANDARD FINISH - SATIN, CONCEALED MOUNTING
NP.	NAPKIN DISPOSAL:	BRADLEY MODEL 4A10, SURFACE MOUNTED, STANDARD SERIES - SATIN FINISH
MR.	MIRROR:	BRADLEY MODEL T81-3642, 36"x42" CHANNEL FRAME MIRROR, 1/4" TEMPERED GLASS MIRROR, 20 GAUGE STAINLESS STEEL
T.D.	TOILET TISSUE DISPENSER:	BRADLEY MODEL 5263, DUAL ROLL, 22 GAUGE STAINLESS STEEL
L.T.	LAVATORY PIPE SHIELD:	TRUEBRO, TB82202 PIPE COVER WHITE

OWNER TO SUPPLY:

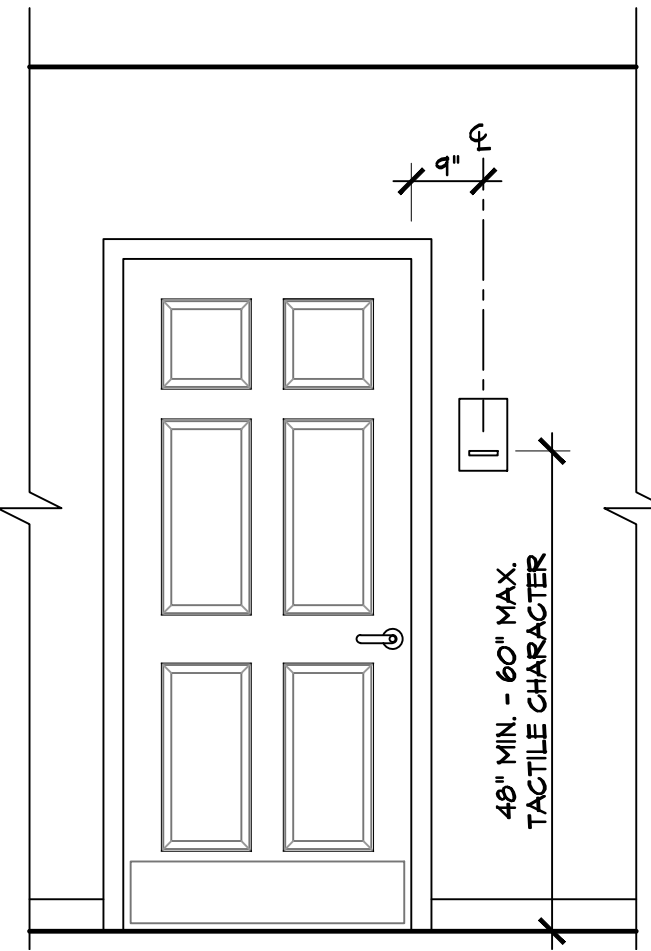
PAPER TOWEL DISPENSER
SOAP DISPENSER
WASTE BASKETS

PLUMBING FIXTURES

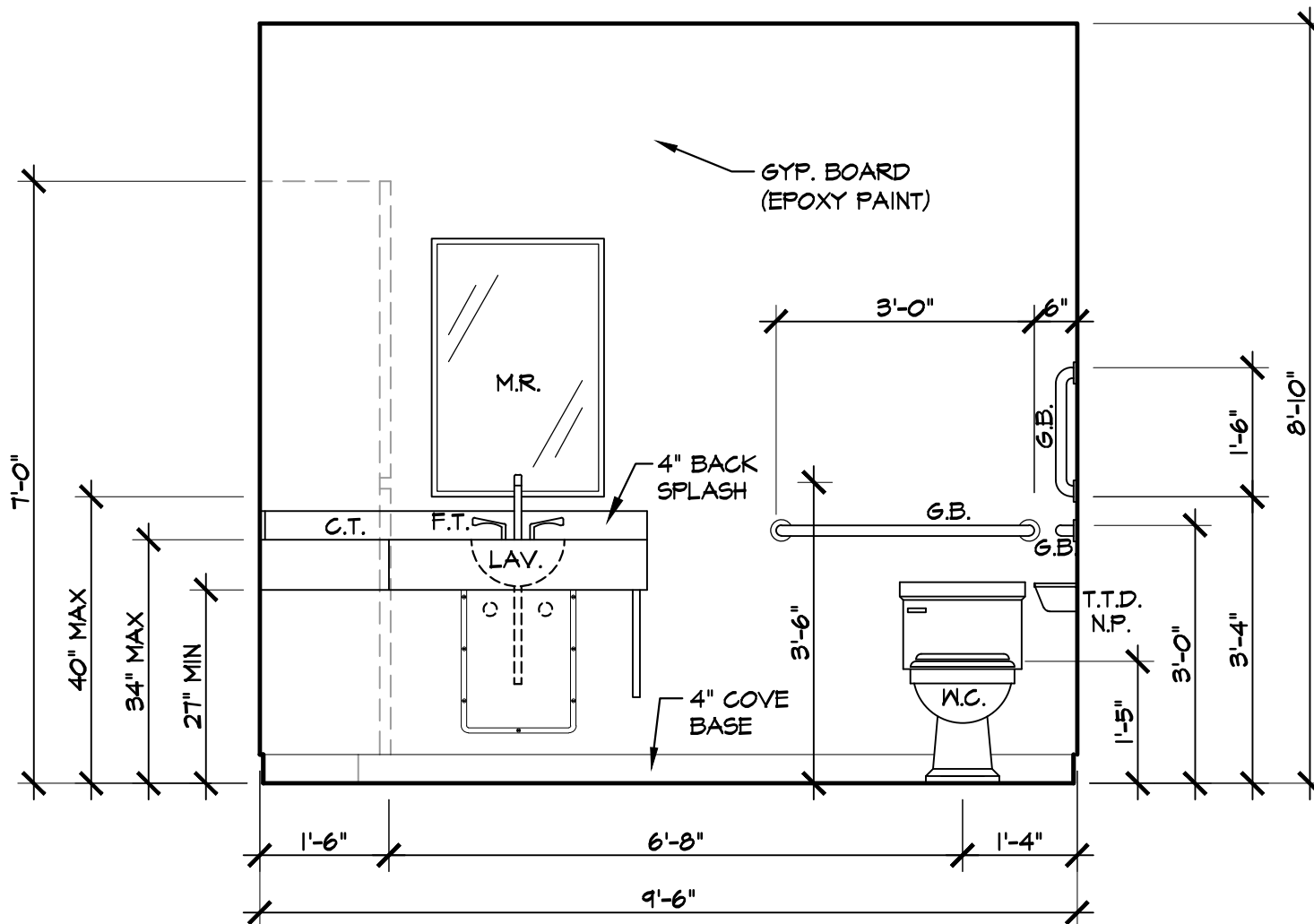
W.C.	WATER CLOSET:	KOHLER K-3493, VITREOUS CHINA, TWO PIECE TOILET, FLOOR MOUNT, COLOR WHITE, VERIFY RIGHT OR LEFT HAND TRIP LEVER FOR OPPOSITE GRAB BAR PRIOR TO ORDERING, ADA COMPLIANT.
	SEAT:	BEMIS COMMERCIAL, #10555G, ELONGATED, OPEN FRONT LESS COVER, WHITE
C.T.	COUNTER TOP:	WILSONART LAMINATE, STANDARD COLOR WITH 4" BACK SPLASHES
LAV.	LAVATORY:	KOHLER, K2196-4-O OVAL, DROP IN, SELF-RIMMING VITREOUS CHINA, WHITE
	FAUCET:	CHICAGO 845-XKET2ABCP, DECK MOUNTED, 4" CENTERS, POLISHED CHROME FINISH, SOLID BRASS CONSTRUCTION, LEVERED HANDLES, GOOSE NECK SPOUT, ADA COMPLIANT
SINK:	ELKAY, ELR22191, 22"x19" SINGLE BOWL STAINLESS STEEL SINK, BASKET STRAINER	
	FAUCET:	CHICAGO, CT86GN2FCABCP, DECK MOUNTED, 8" FIXED CENTERS, POLISHED CHROME FINISH, SOLID BRASS CONSTRUCTION, LEVERED HANDLES, GOOSE NECK SPOUT, ADA COMPLIANT



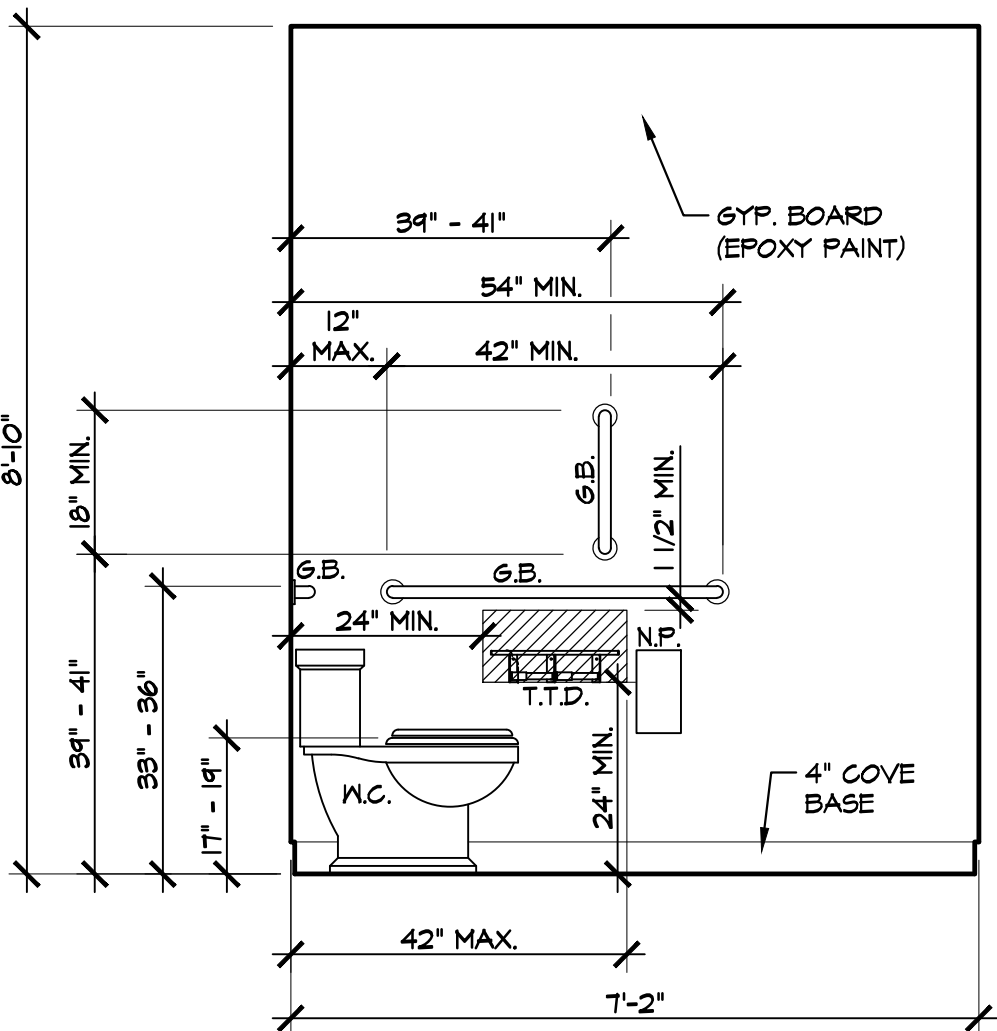
BREAK ROOM 110 - UNISEX 113 - UNISEX ADA 114
ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"



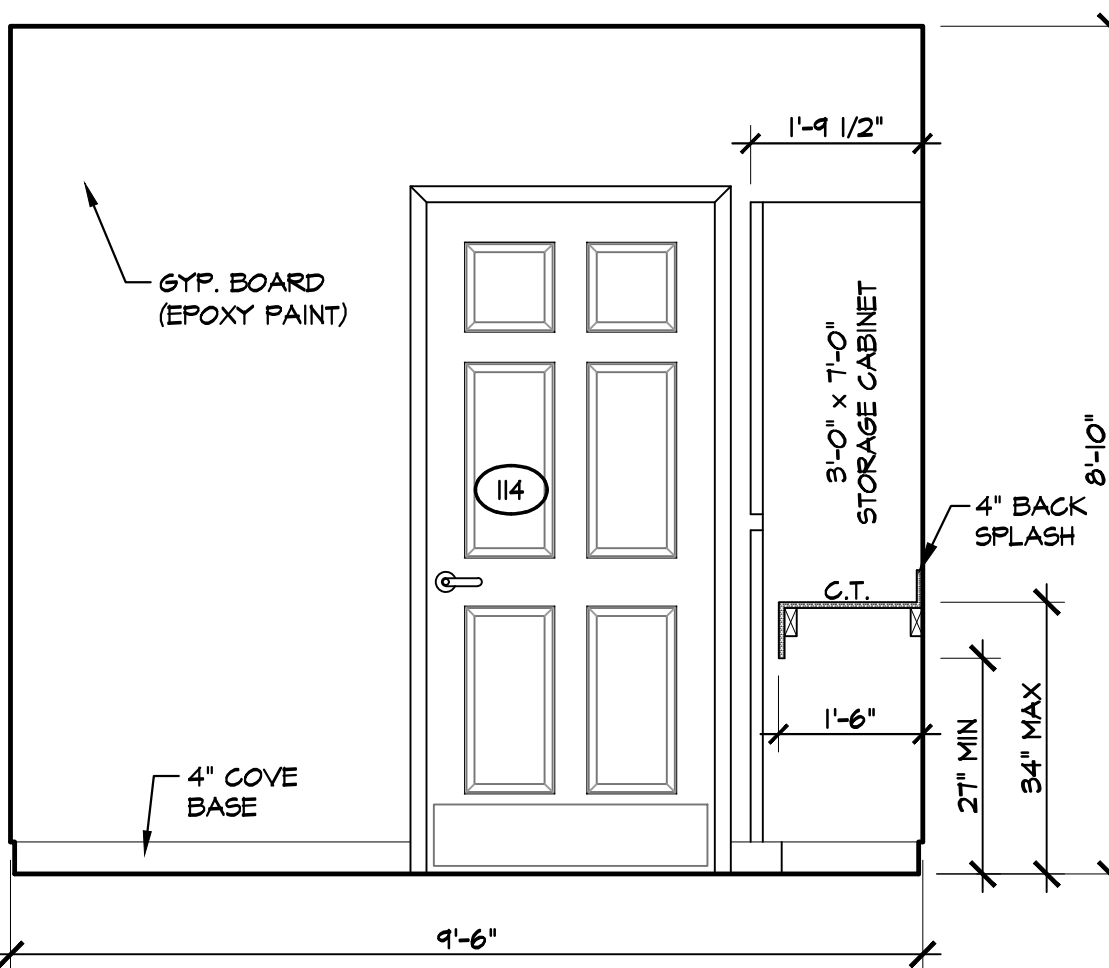
L
TYP. ROOM SIGNAGE ELEVATION
SCALE: 1/2" = 1'-0"



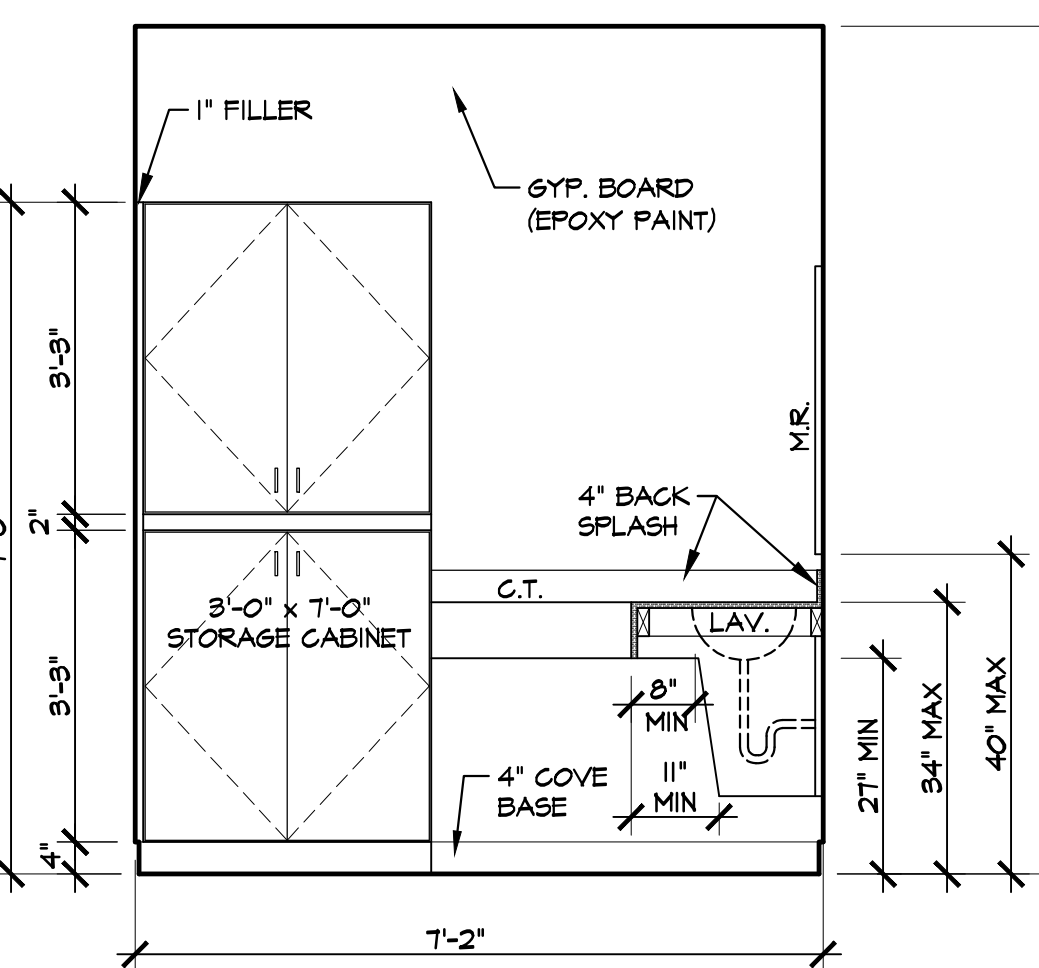
A
UNISEX ADA #114 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



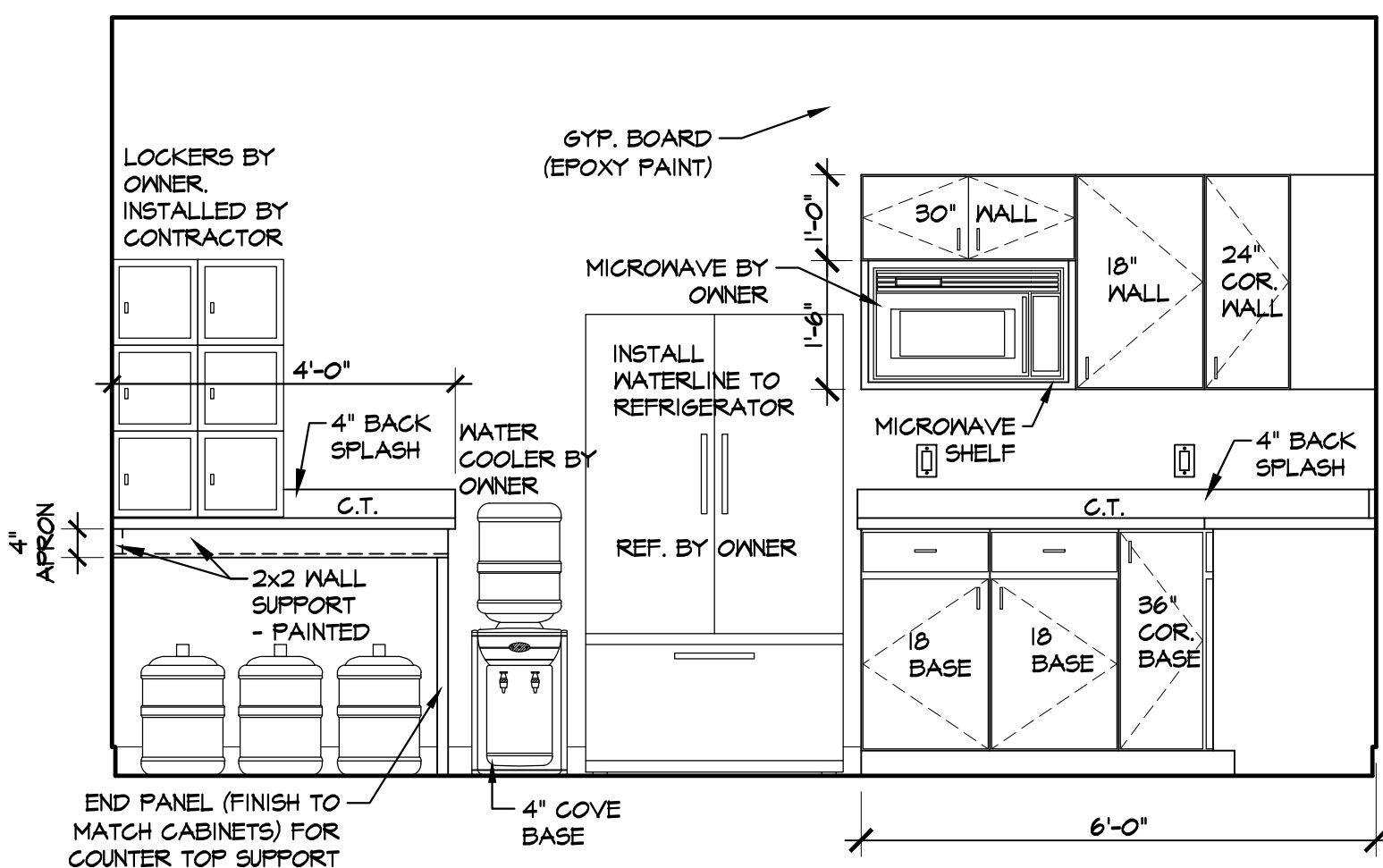
B
UNISEX ADA #114 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



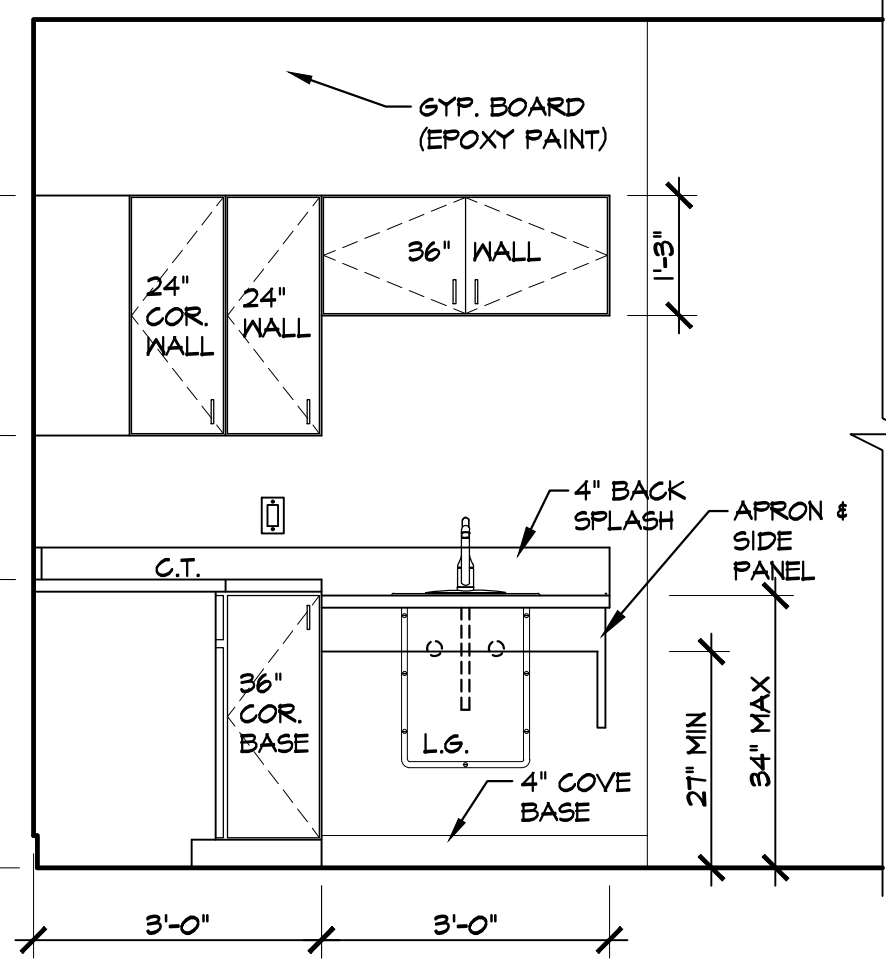
C
UNISEX ADA #114 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



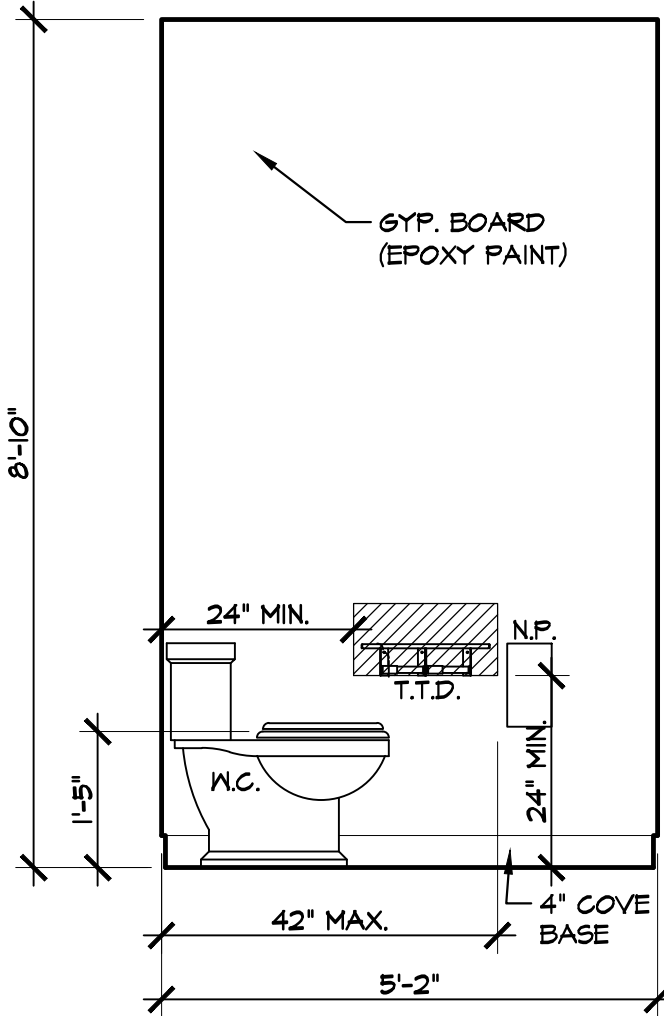
D
UNISEX ADA #114 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



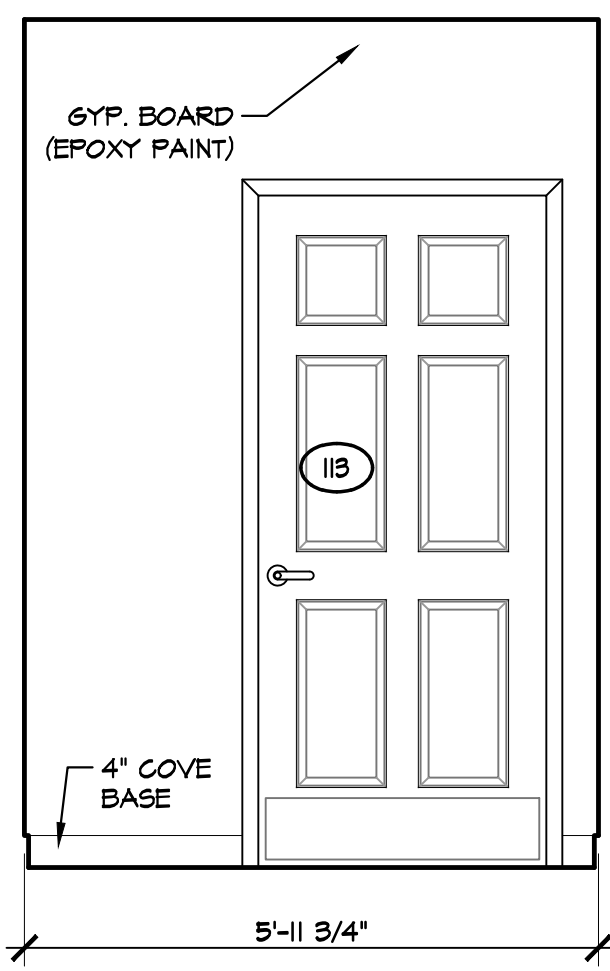
J
BREAK ROOM 110 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



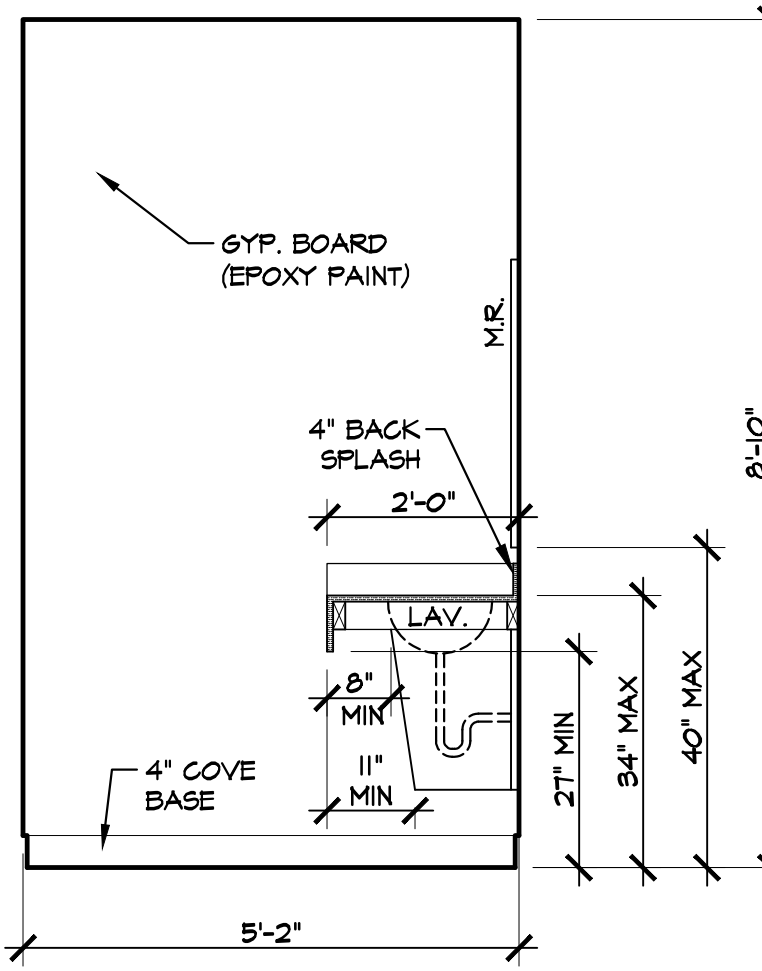
K
BREAK ROOM 110 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



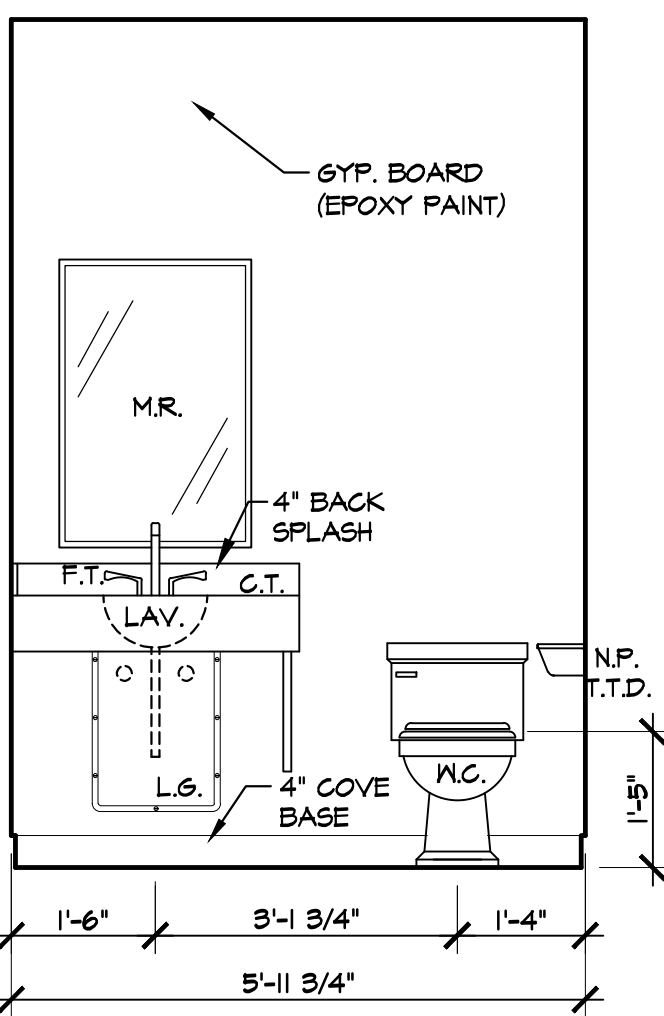
E
UNISEX #113 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



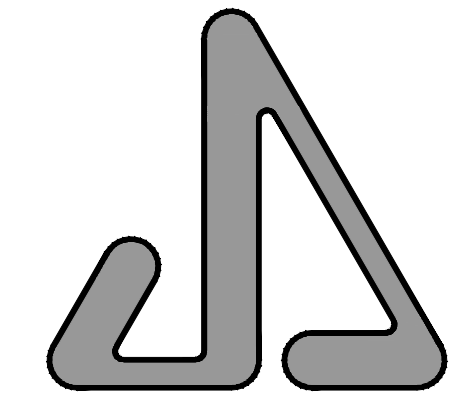
F
UNISEX #113 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



G
UNISEX #113 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



H
UNISEX #113 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



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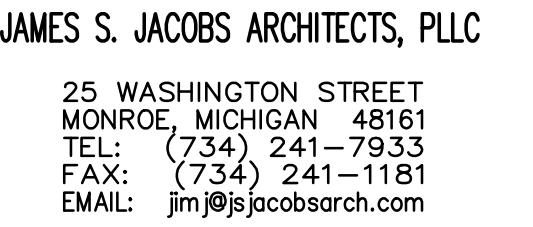
MONROE
COMMUNITY
CREDIT UNION
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PROPERTY OWNER CONTACT:
KRISTINE BRENNER, CEO
715 TELEGRAPH ROAD
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734-384-2705
kbrenner@monroecommunitycu.org

ENLARGED
BREAK ROOM &
TOILET ROOM
PLAN & INTERIOR
ELEVATIONS

NOT FOR CONSTRUCTION

03-06-26 BIDS
01-21-26 OWNER DESIGN MEETING
DATE: ISSUED FOR:
DRAWN: KMB
REVIEW'D: JSJ
202543

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Monroe
COMMUNITY CREDIT UNION

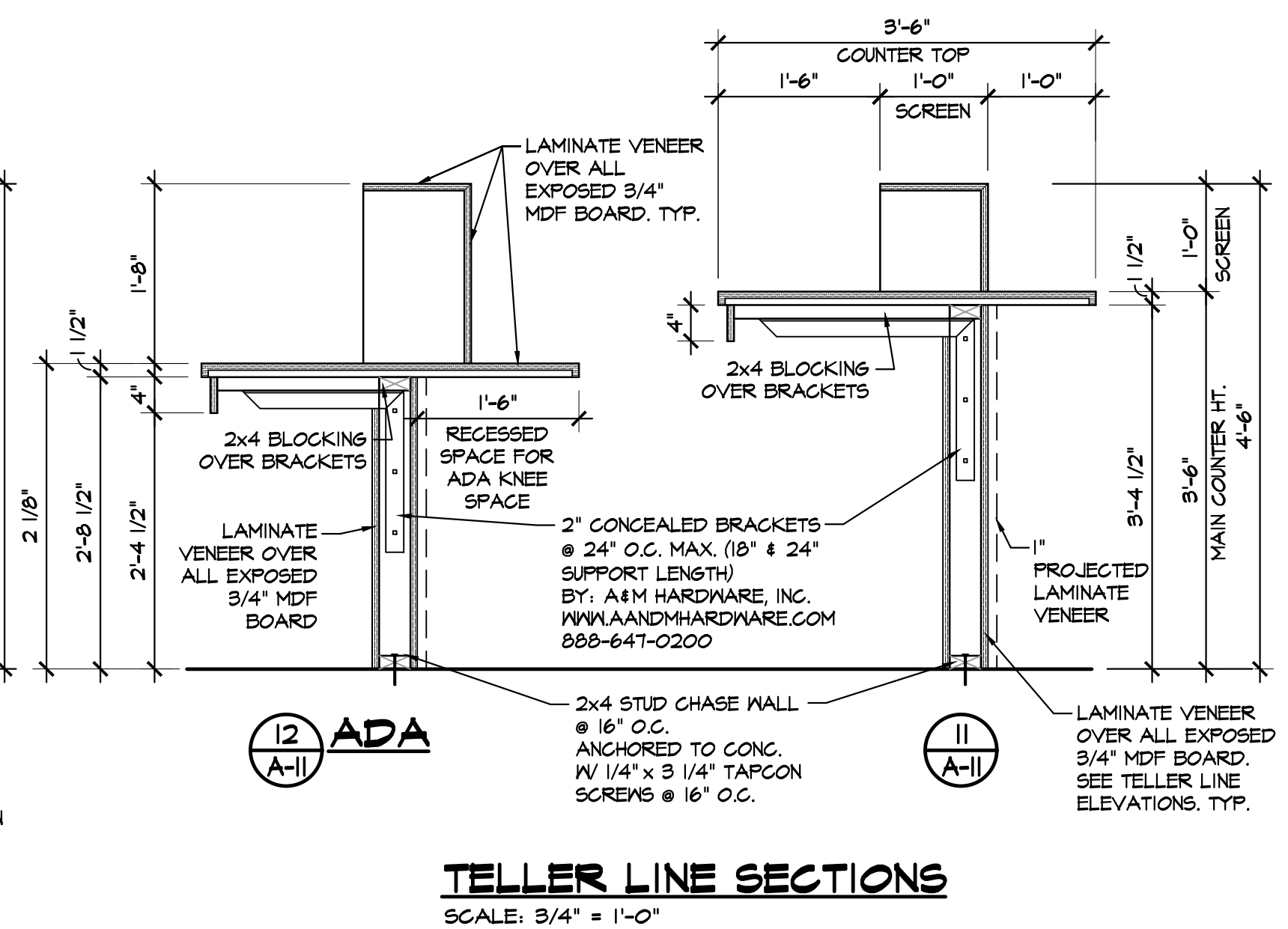
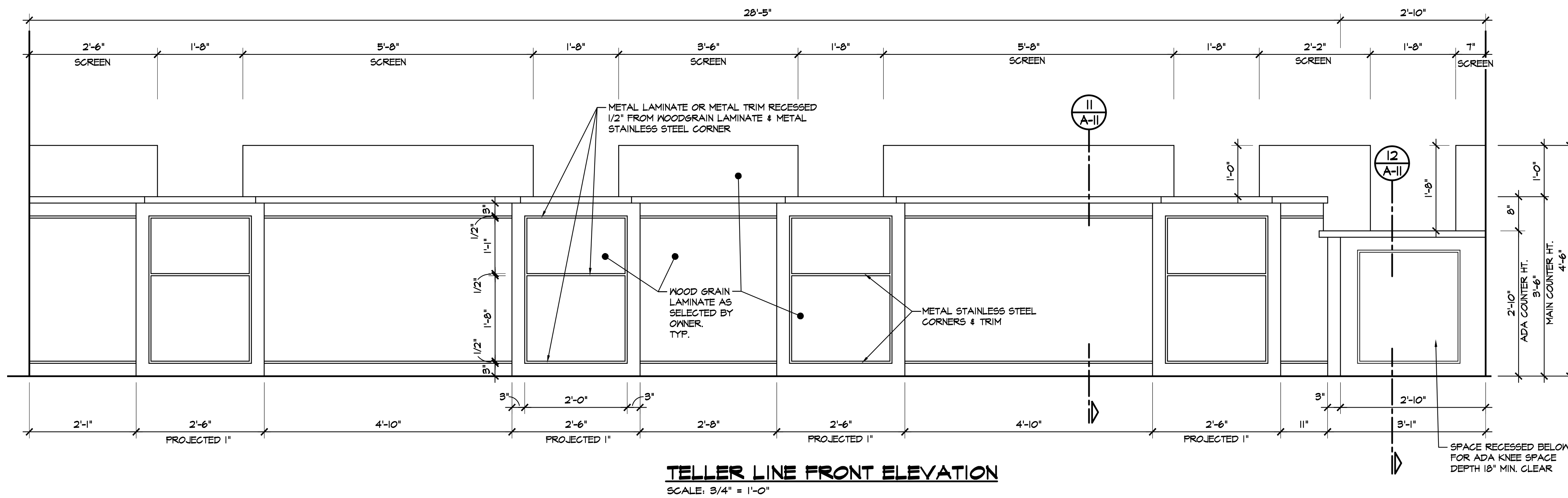
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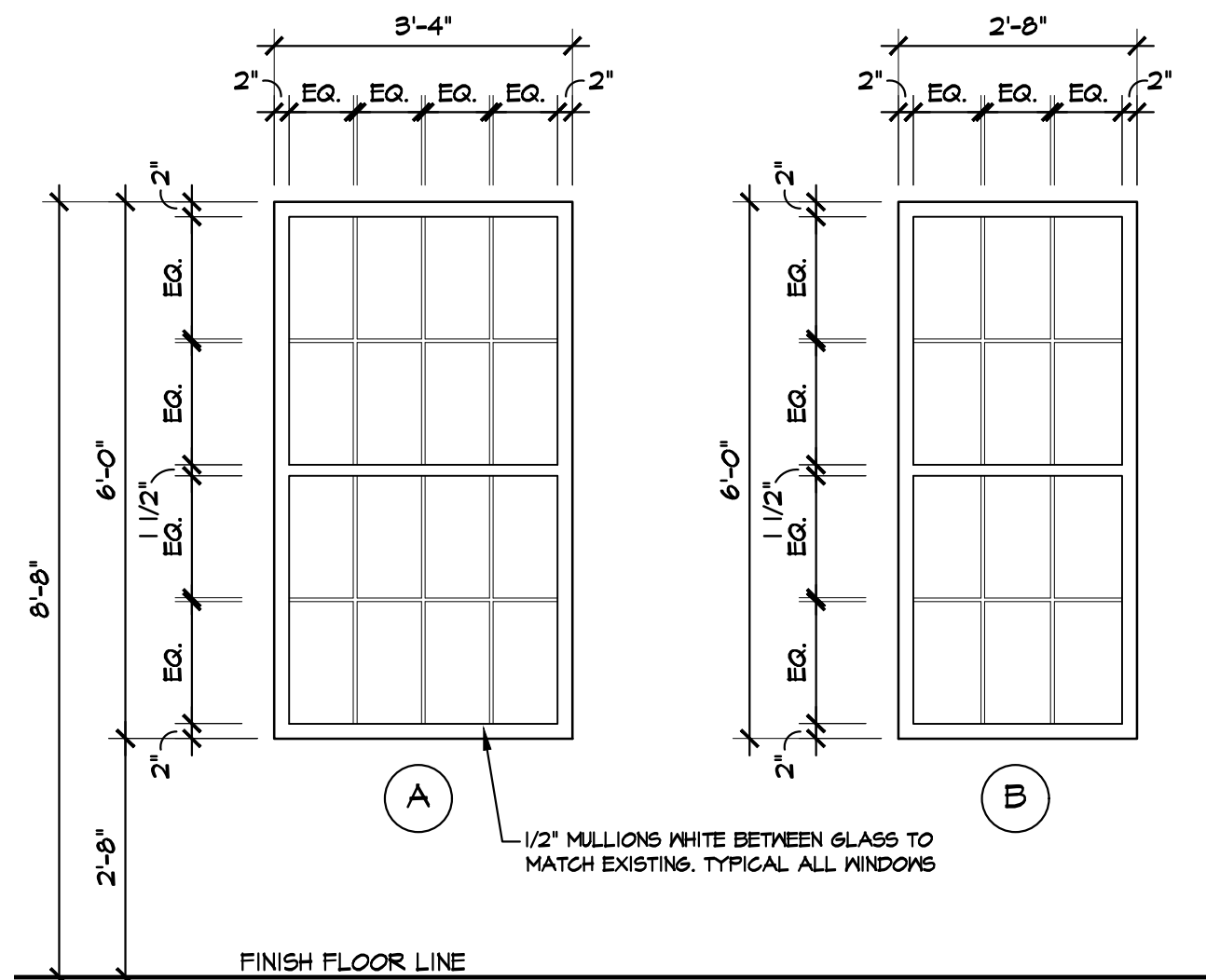
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1 OF 14

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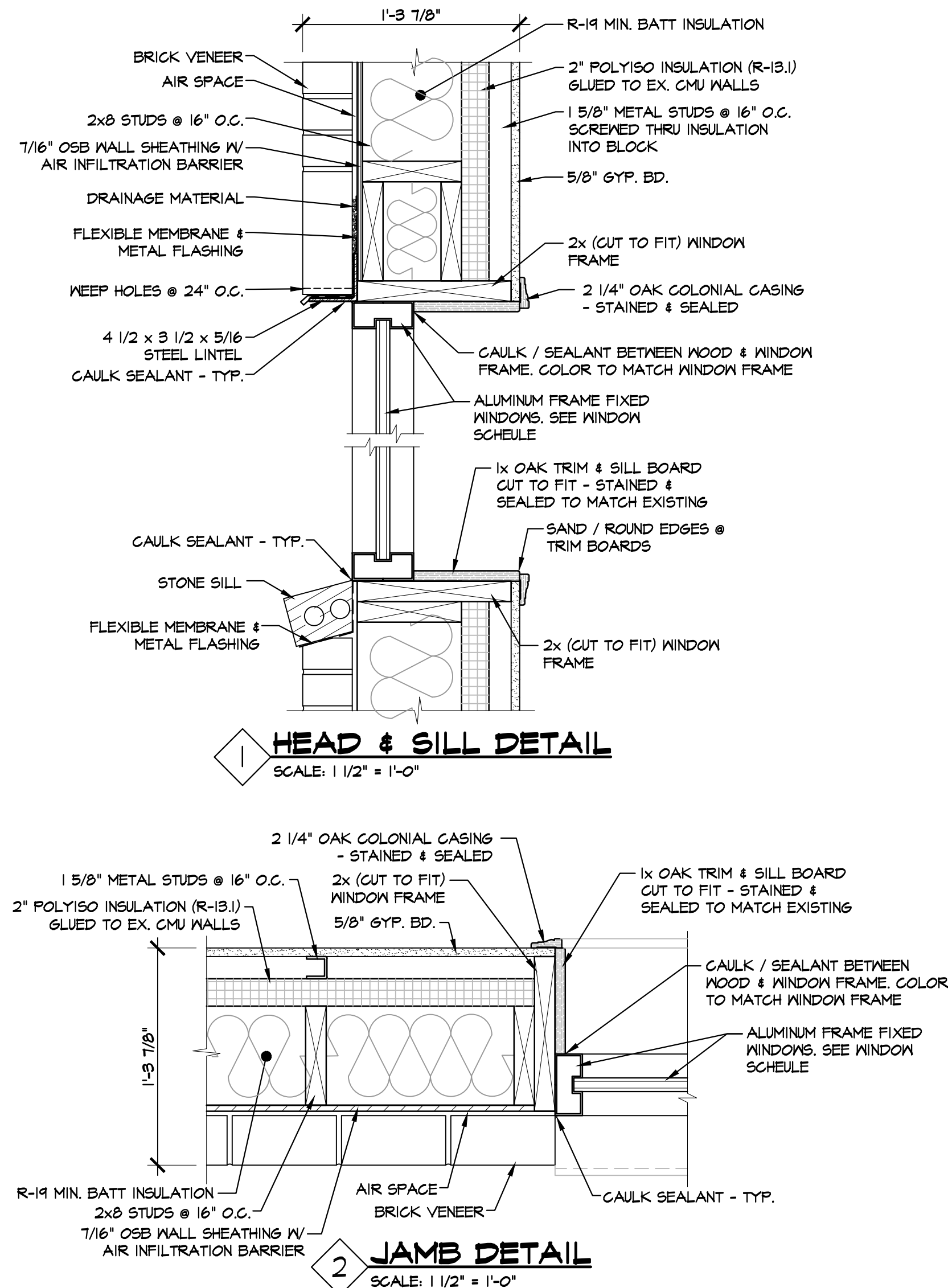


WINDOW A NOTE:
MATCH EXISTING OPENINGS.
CONTRACTOR TO FIELD VERIFY
OPENINGS PRIOR TO ORDERING WINDOWS

ALL WINDOWS TO BE:
ALUMINUM FRAME, IV THERMAL BREAK
U-0.42 MIN, 1" INSULATED GLAZING
ANODIZE FINISH.
WHITE EXTERIOR
DARK BRONZE INTERIOR FINISHES

WINDOW ELEVATIONS

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



HEAD & SILL DETAIL

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

JAMB DETAIL

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

PAINT SPECIFICATIONS

ALL PAINTED SURFACES TO RECEIVE ONE COAT PRIMER AND TWO COATS FINISH PAINT

PAINT MANUFACTURER: SHERWIN WILLIAMS

GYPSUM BOARD:

- 1 PRIMER COAT: PROBLOCK PREMIUM ALL-PURPOSE WATER BASED INT/EXT PRIMER
- 2 TOPCOATS: PRO INDUSTRIAL PRE-CATALYZED WATER BASED EPOXY EG-SHEL

CMU INTERIOR WALLS:

- 1 PRIMER COAT: LOXON CONCRETE & MASONRY PRIMER/SEALER
- 2 TOPCOATS: PRO INDUSTRIAL PRE-CATALYZED WATER BASED EPOXY EG-SHEL

HOLLOW CORE METAL DOOR FRAMES:

- 1 PRIMER COAT: PRO INDUSTRIAL PRO-CRYL UNIVERSAL ACRYLIC PRIMER
- 2 TOPCOATS: PRO INDUSTRIAL WATER BASED ALKYD URETHANE SEMI-GLOSS (THIS PRODUCT IS INTERIOR AND EXTERIOR)

OTHER METALS:

- 1 PRIMER COAT: PRO-CRYL PRIMER
- 2 TOPCOATS: LOXON SELF-CLEANING ACRYLIC COATING SATIN

CMU EXTERIOR:

- 1 PRIMER COAT: LOXON CONCRETE & MASONRY PRIMER/SEALER
- 2 TOPCOATS: LOXON SELF-CLEANING ACRYLIC COATING SATIN

EXTERIOR DRYVIT:

- 1 PRIMER COAT: LOXON CONCRETE & MASONRY PRIMER/SEALER
- 2 TOPCOATS: LOXON SELF-CLEANING ACRYLIC COATING SATIN

FIBERGLASS DECORATIVE COLUMNS:

- 1 PRIMER COAT: EXTREME BOND PRIMER
- 2 TOPCOATS: PRO INDUSTRIAL MULTI-SURFACE ACRYLIC EG-SHEL

MATERIAL SPECIFICATIONS

PAINT:

SHERWIN WILLIAMS - USE MANUFACTURER'S
RECOMMENDED PAINT FOR INTERIOR AND
EXTERIOR APPLICATIONS. STANDARD COLOR
AS SELECTED BY OWNER/ARCHITECT
PROVIDE (3) COAT SYSTEM - (1) PRIMER
COAT AND (2) FINISH COATS

VINYL BASE:

JOHNSONITE OR EQUIVALENT - 4" COVED BASE
WITH PRE-MADE CORNERS
STANDARD COLOR AS SELECTED BY
OWNER/ARCHITECT

CARPET TILE 1:

MANUFACTURER: SHAN CONTRACT
STYLE: ESTABLISH TILE - 12"x48"
STYLE NUMBER: 5T268
COLOR: AS SELECTED BY OWNER
WEIGHT: 20.0 OZ. / YD2

CARPET TILE 2:

MANUFACTURER: SHAN CONTRACT
STYLE: ESTABLISH TILE - 12"x48"
STYLE NUMBER: 5T268
COLOR: AS SELECTED BY OWNER
WEIGHT: 20.0 OZ. / YD2

CARPET TILE 3:

MANUFACTURER: SHAN CONTRACT
STYLE: HAZE TILE - 18"x36"
STYLE NUMBER: 5T031
COLOR: AS SELECTED BY OWNER
WEIGHT: 18.0 OZ. / YD2

LVT:

MANUFACTURER: SHAN CONTRACT
STYLE: TERRAIN II - 6"x48"
STYLE NUMBER: 0454V
COLOR: AS SELECTED BY OWNER
20 MIL. DIRECT GLUE

WALK-OFF TILE:

MANUFACTURER: SHAN CONTRACT
STYLE: BON JOUR II TILE - 24"x24"
STYLE NUMBER: 5T032
COLOR: AS SELECTED BY OWNER
WEIGHT: 50.2 OZ. YD/2

STATIC CONTROL:

STATIC SMART CONTROL LVT
MANUFACTURER: JULIE INDUSTRIES, STATIC
STYLE: SUMMIT SERIES ESP - 24"x24"
STANDARD COLOR AS SELECTED BY OWNER
THICKNESS: 1/8"

MILLWORK:

WINDOW CASING: 2 1/4" SOLID OAK COLONIAL

TRIM:

FINISH: STAINED (COLOR AS SELECTED BY
OWNER) IV CLEAR SEMI-GLOSS POLYURETHANE
FINISH (FIELD OR FACTORY APPLIED)

ACOUSTICAL

USG ECLIPSE ACOUSTICAL PANEL 2.0'X2.0'X3/4"
ITEM NO. 76575, WHITE OR EQUAL

INTERIOR FINISH CLASSIFICATIONS

INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE
WITH ASTM E 84, AND SHALL BE GROUPED IN THE FOLLOWING CLASSES IN
ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEXES:

CLASS A: FLAME SPREAD 0-25; SMOKE-DEVELOPED 0-450
CLASS B: FLAME SPREAD 26-75; SMOKE-DEVELOPED 0-450
CLASS C: FLAME SPREAD 76-200; SMOKE-DEVELOPED 0-450

USE GROUP B (BUSINESS) - SECTION 803, TABLE 803.11

CLASS A FINISH: EXIT ENCLOSURES/PASSAGEWAYS (NON-SPRINKLED)

CLASS B FINISH: EXIT ENCLOSURES/PASSAGEWAYS (SPRINKLED)
CORRIDORS (NON-SPRINKLED)

CLASS C FINISH: ROOMS/ENCLOSED SPACES (SPRINKLED)
ROOMS/ENCLOSED SPACES (NON-SPRINKLED)
CORRIDORS (SPRINKLED)

INTERIOR FLOOR FINISH REQUIREMENTS: MINIMUM CRITICAL RADIANT FLUX NOT
LESS THAN CLASS II, AND SHOULD COMPLY WITH THE DOC FF-1 "PILL TEST" (CPSC
16 CFR, PART 1630).

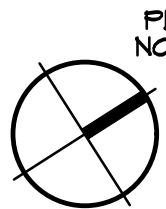
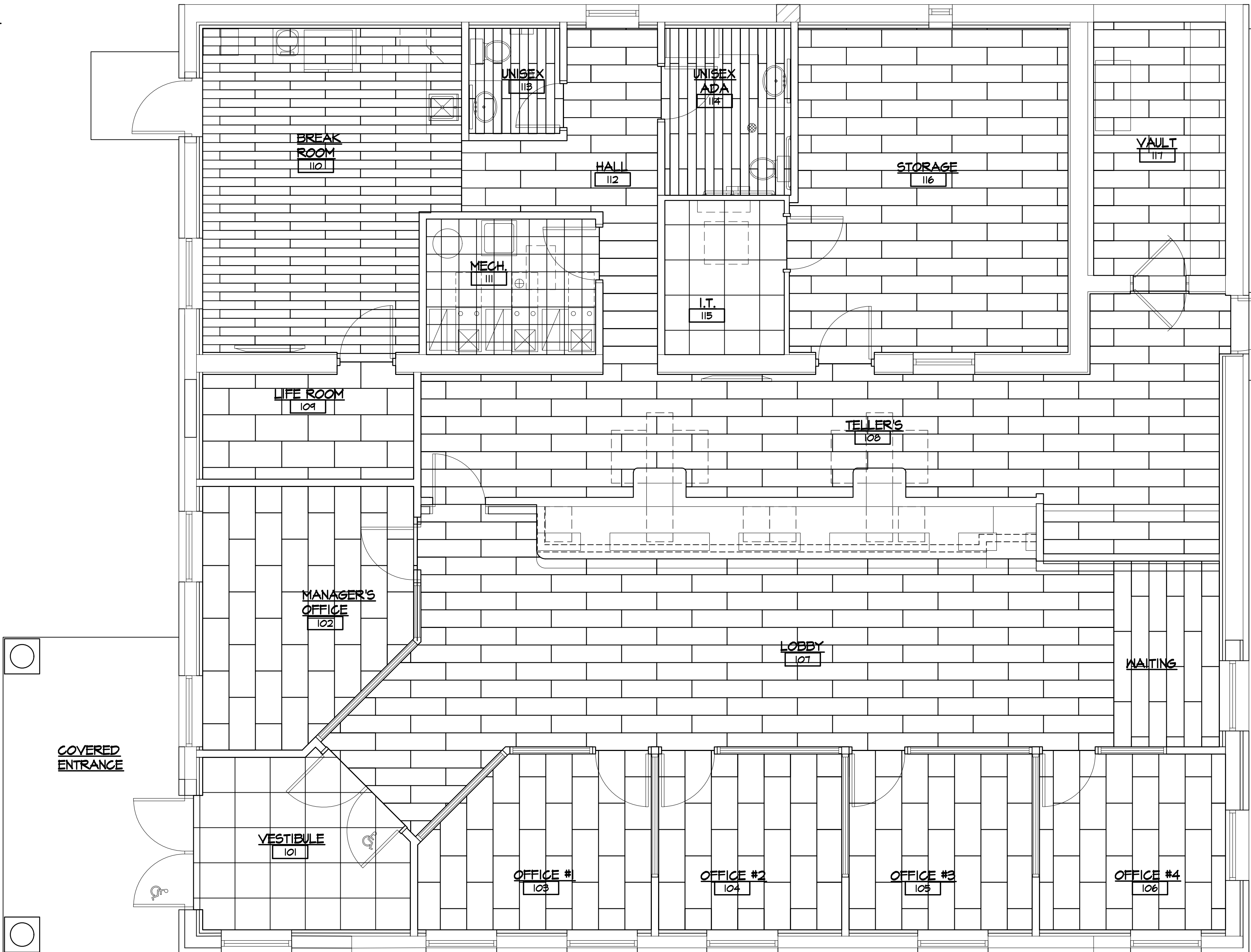
BUILDINGS EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM: CLASS II
MATERIALS ARE PERMITTED IN ANY AREA WHERE CLASS I MATERIALS ARE
REQUIRED AND MATERIALS COMPLYING WITH THE DOC FF-1 "PILL TEST" (CPSC
16 CFR, PART 1630) ARE PERMITTED IN ANY AREA WHERE CLASS II MATERIALS
ARE REQUIRED.

NOTE: BUILDING IS NOT EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM.

GENERAL INTERIOR FINISH NOTES

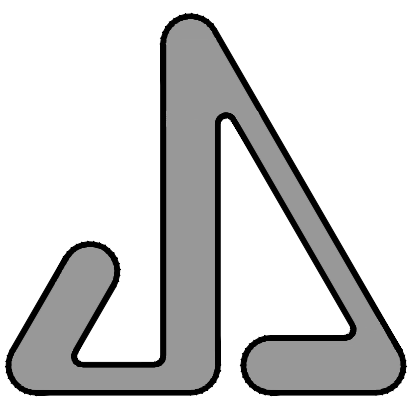
1. ALL NEW INTERIOR FINISHES ARE TO BE SELECTED BY THE OWNER AND
SHALL COMPLY WITH INTERIOR FINISH CLASSIFICATIONS AS STATED
ABOVE.
2. CONTRACTOR TO PREP ALL SURFACES AS NECESSARY WHICH WILL BE
RECEIVING NEW FINISHES.

ROOM FINISH SCHEDULE													
NO.	ROOM NAME	FLOOR			FLOOR BASE	WALLS	CEILING			REMARKS			
		VINYL COMPOSITION TILE (VCT)	LAMINATED VINYL TILE (LVT)	CARPET	STATIC CONTROL LVT	WALK-OFF CARPET	4" RUBBER BASE	PAINT - 6YF. BD. OR CMU	EX. WALL FINISH REMAINS PAINT	24" x 24" ACOUSTICAL TILE	PAINT - 6YF. BD. OR CONCRETE	CEILING HEIGHT IN FEET AND INCHES	LEGEND ● - NEW FINISH MATERIAL X - EXISTING MATERIAL
101	VESTIBULE					●	●	●		●		9'-6"	
102	MANAGERS OFFICE			●			●	●		●		8'-10"	CT #3
103	OFFICE #1			●			●	●		●		8'-10"	CT #3
104	OFFICE #2			●			●	●		●		8'-10"	CT #3
105	OFFICE #3			●			●	●		●		8'-10"	CT #3
106	OFFICE #4			●			●	●		●		8'-10"	CT #3
107	LOBBY			●			●	●				9'-6"	CT #1 & CT#2 @ WAITING
108	TELLER'S			●			●	●				8'-10"	CT #1
109	LIFE ROOM			●			●	●		●		8'-10"	CT #3
110	BREAK ROOM		●				●	●		●		8'-10"	
111	MECHANICAL ROOM	●					●	●			●		
112	HALL			●			●	●		●		8'-10"	CT #1
113	UNISEX		●				●	●				8'-10"	
114	UNISEX ADA		●				●	●				8'-10"	
115	IT ROOM				●		●		●	X		8'-10"	
116	STORAGE			●			●	●		●		8'-10"	CT #1
117	VAULT			●			●	●			●	EX. 7'-6"	



ROOM FINISH PLAN

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



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ROOM FINISH
PLAN, ROOM
FINISH SCHEDULE
& WINDOW
ELEVATIONS

03-06-26 BIDS

01-21-26 OWNER DESIGN MEETING

DATE: ISSUED FOR:

DRAWN: KMB

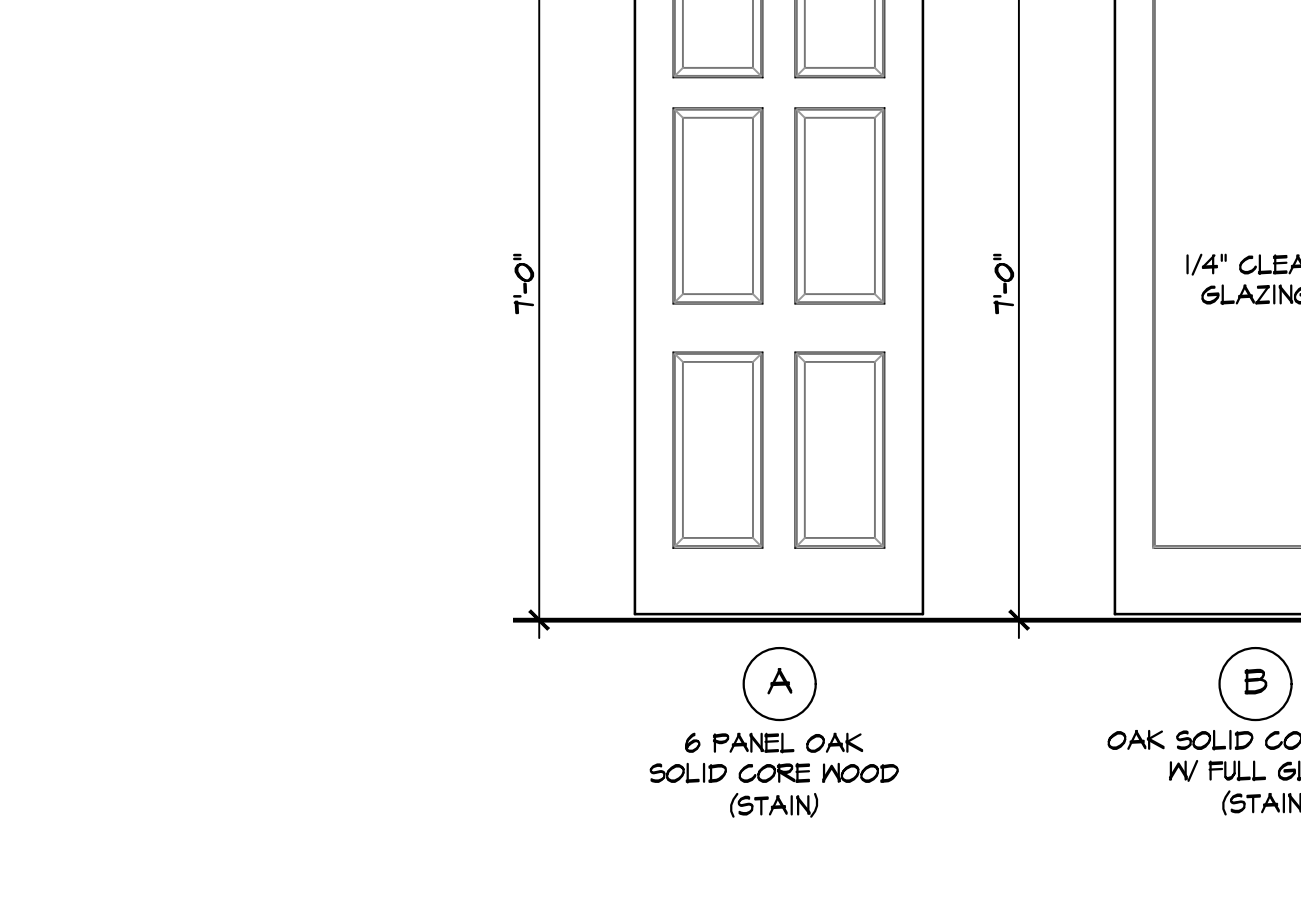
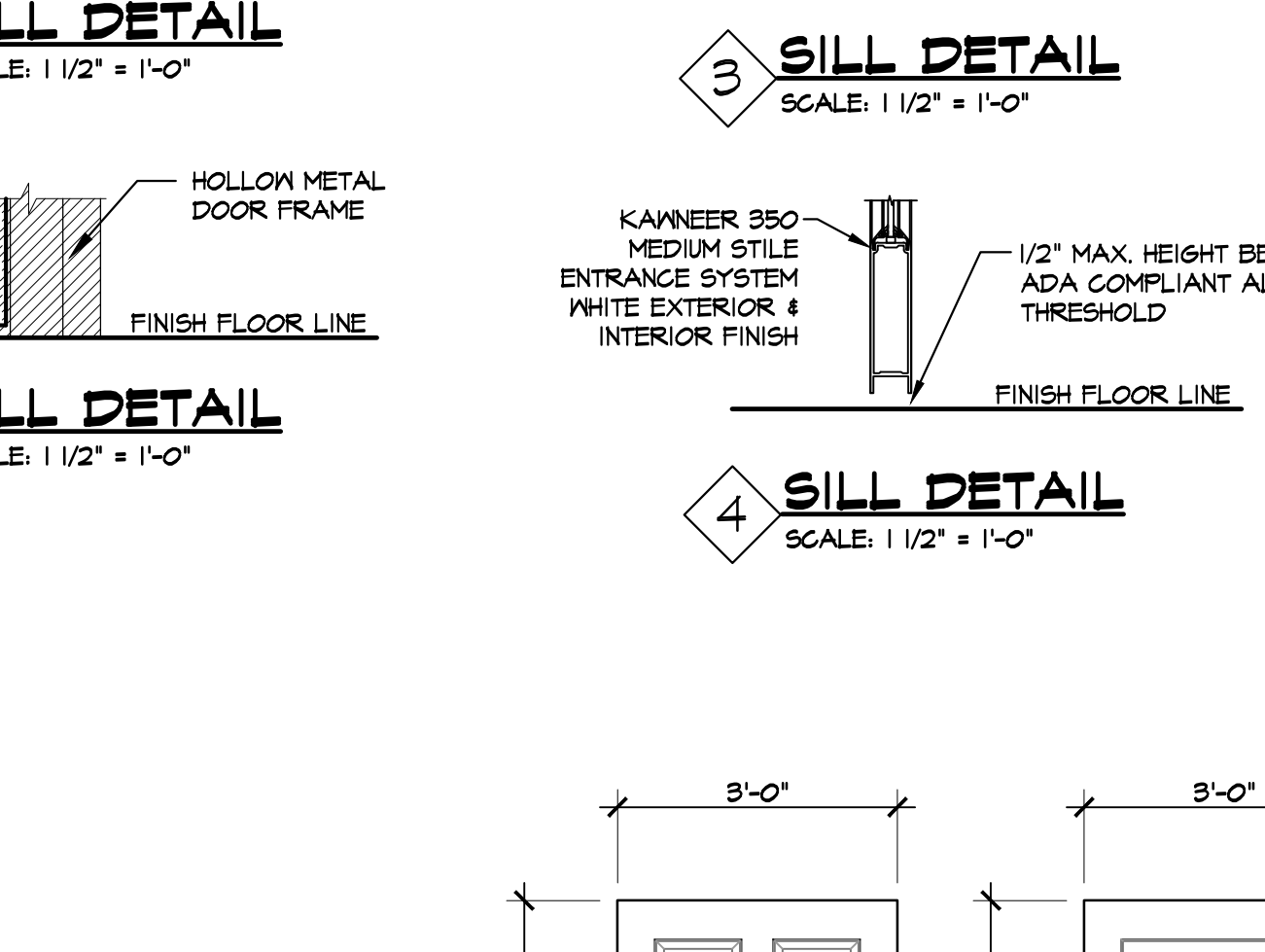
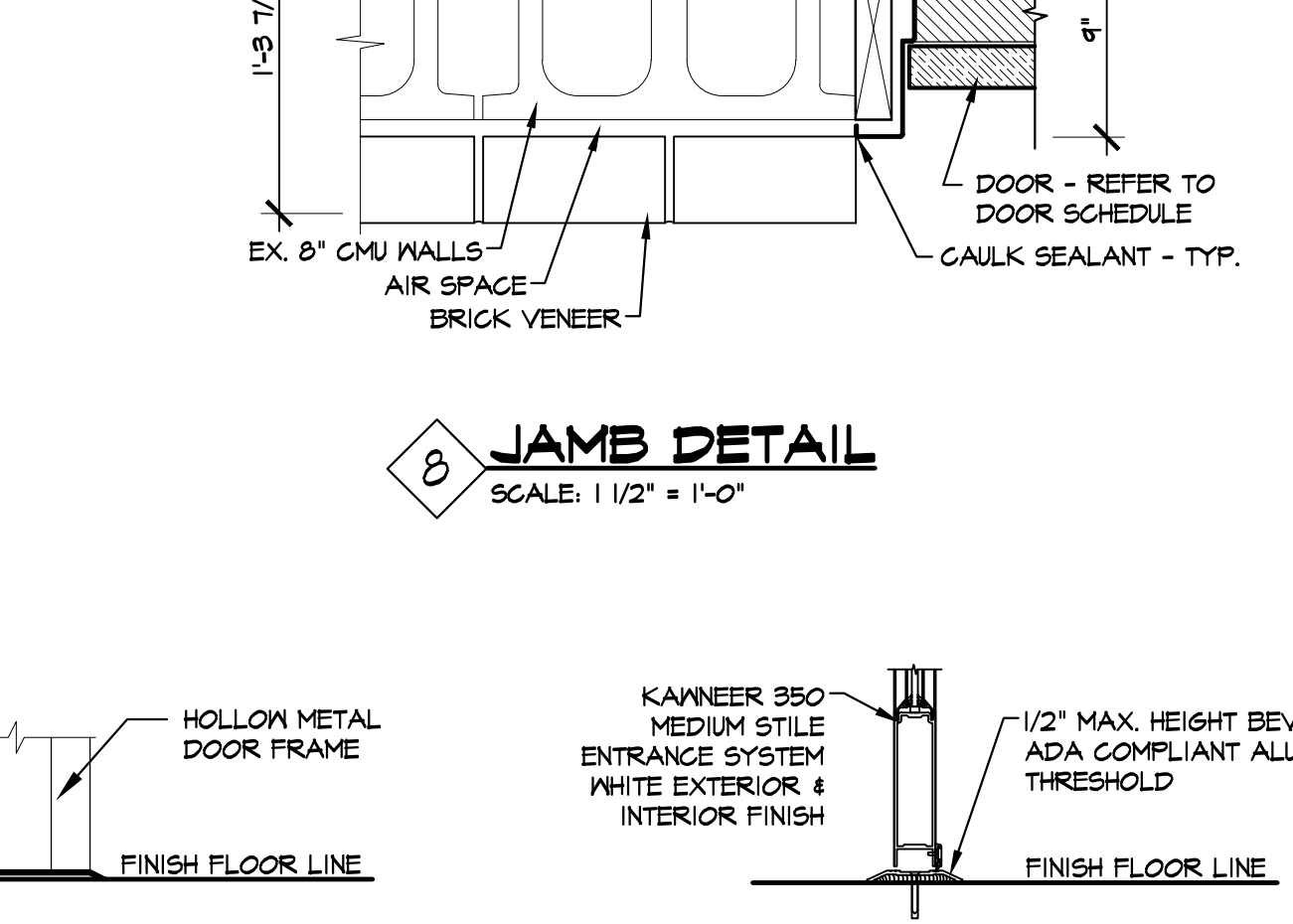
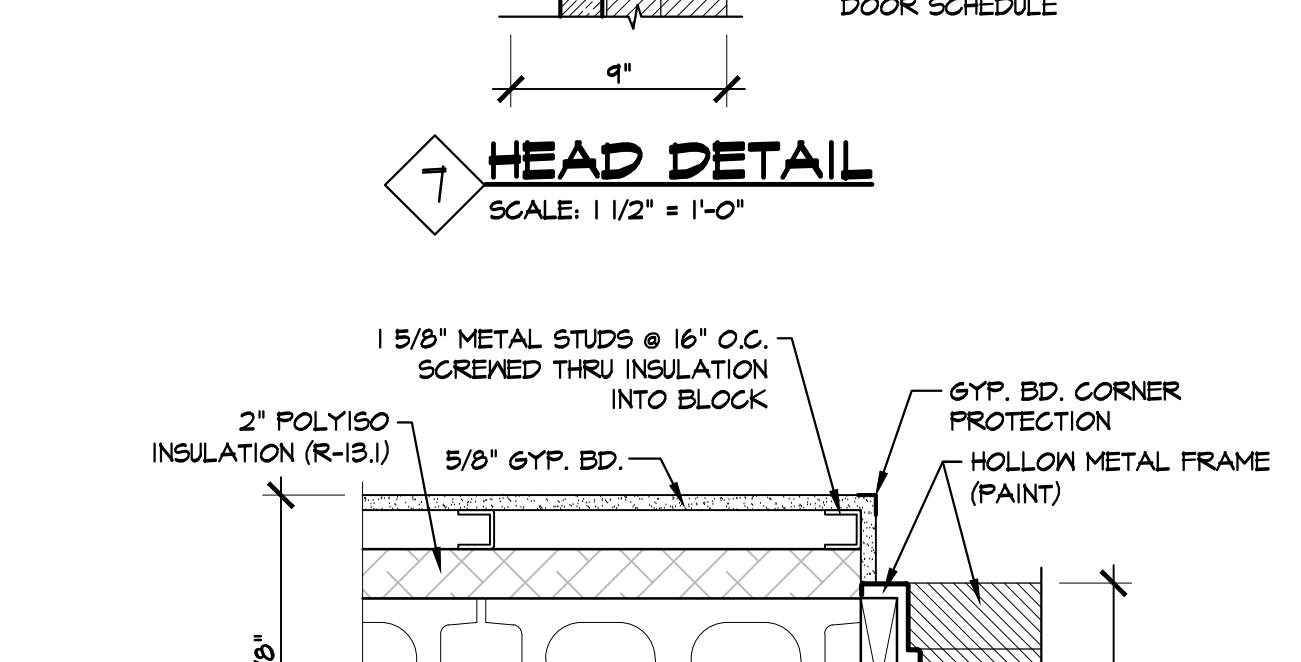
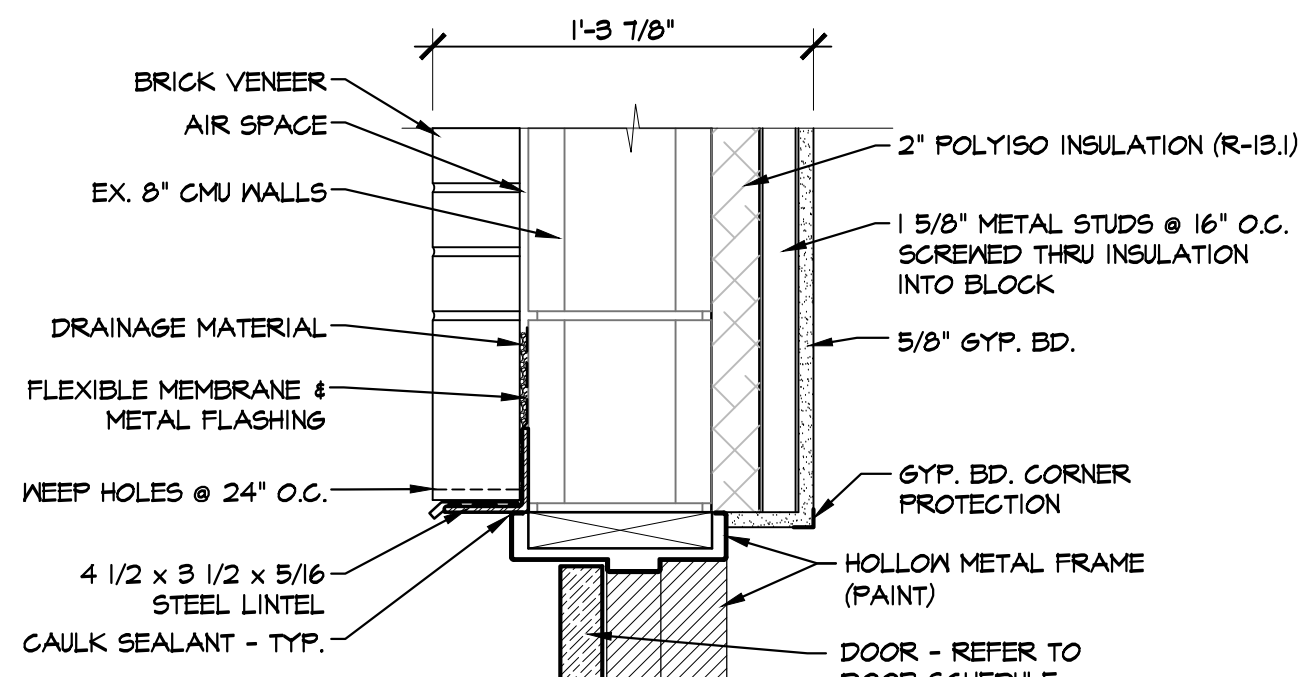
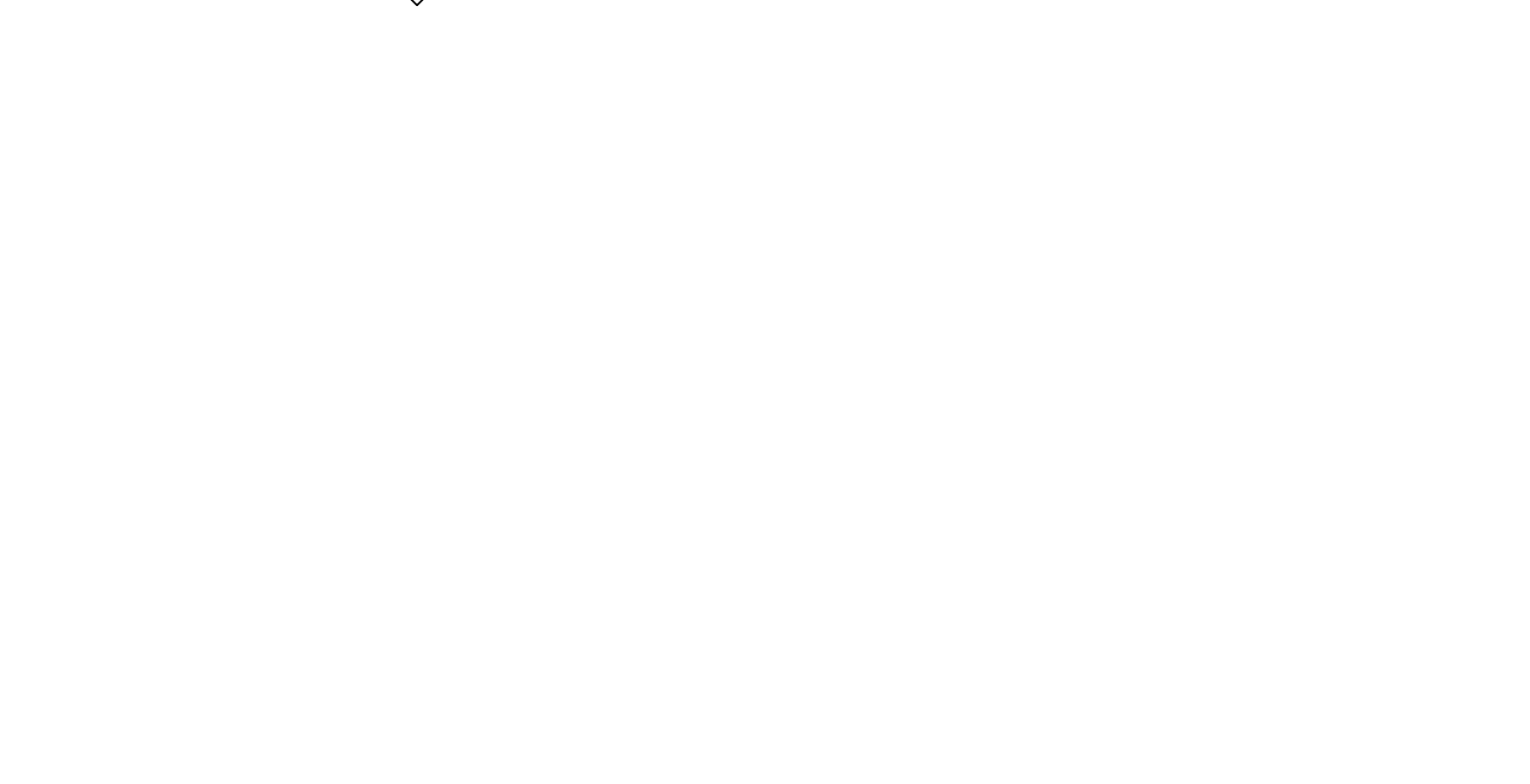
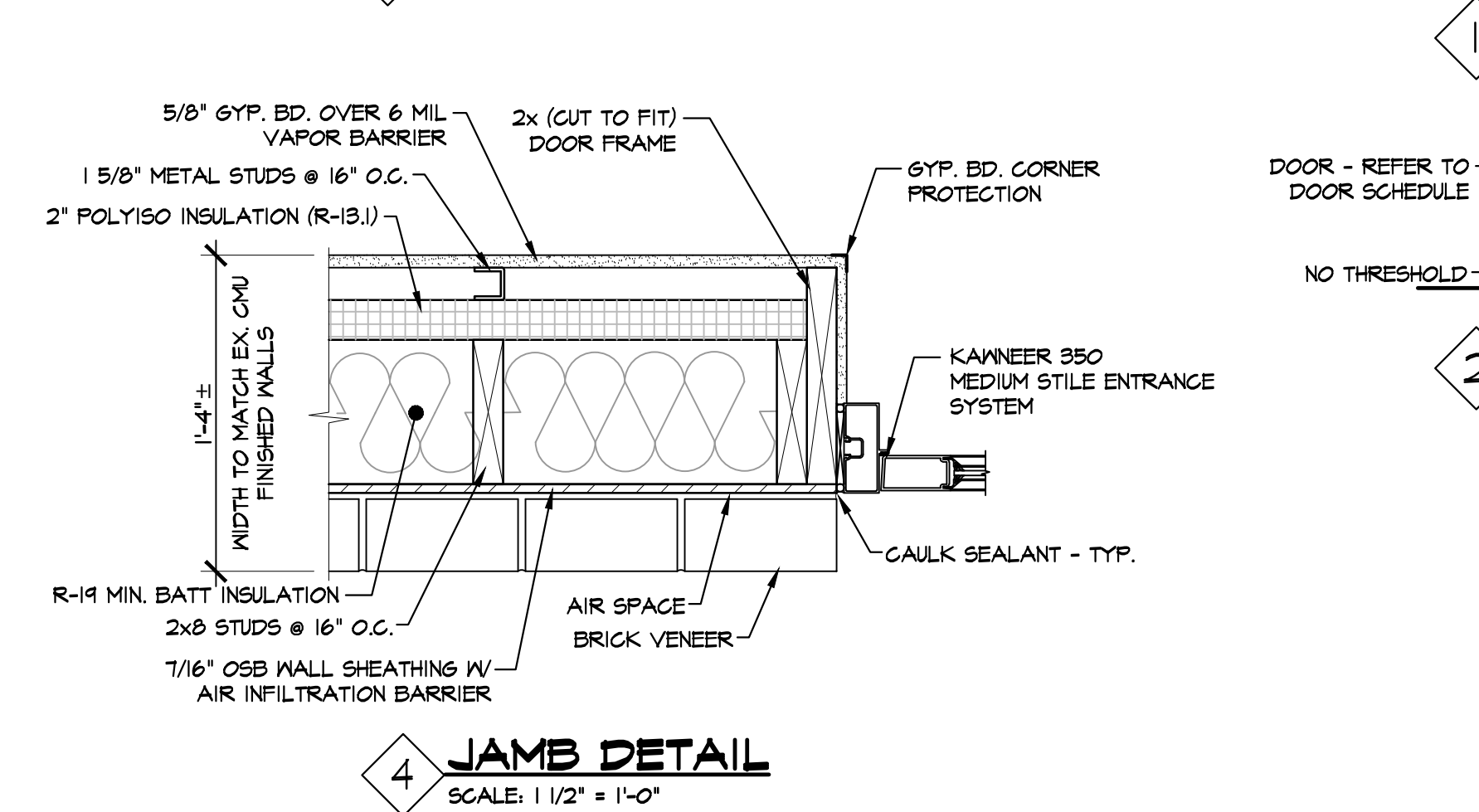
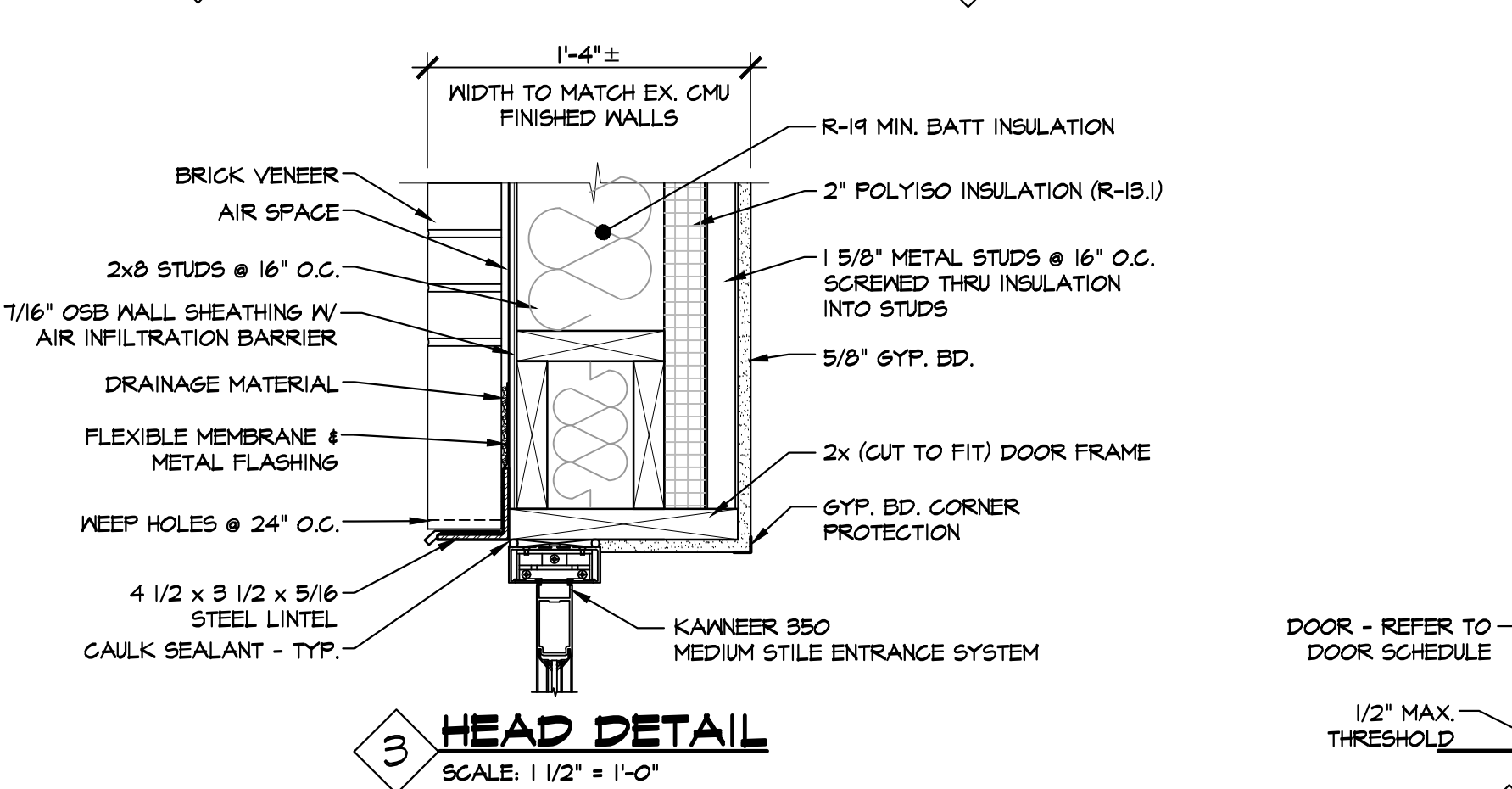
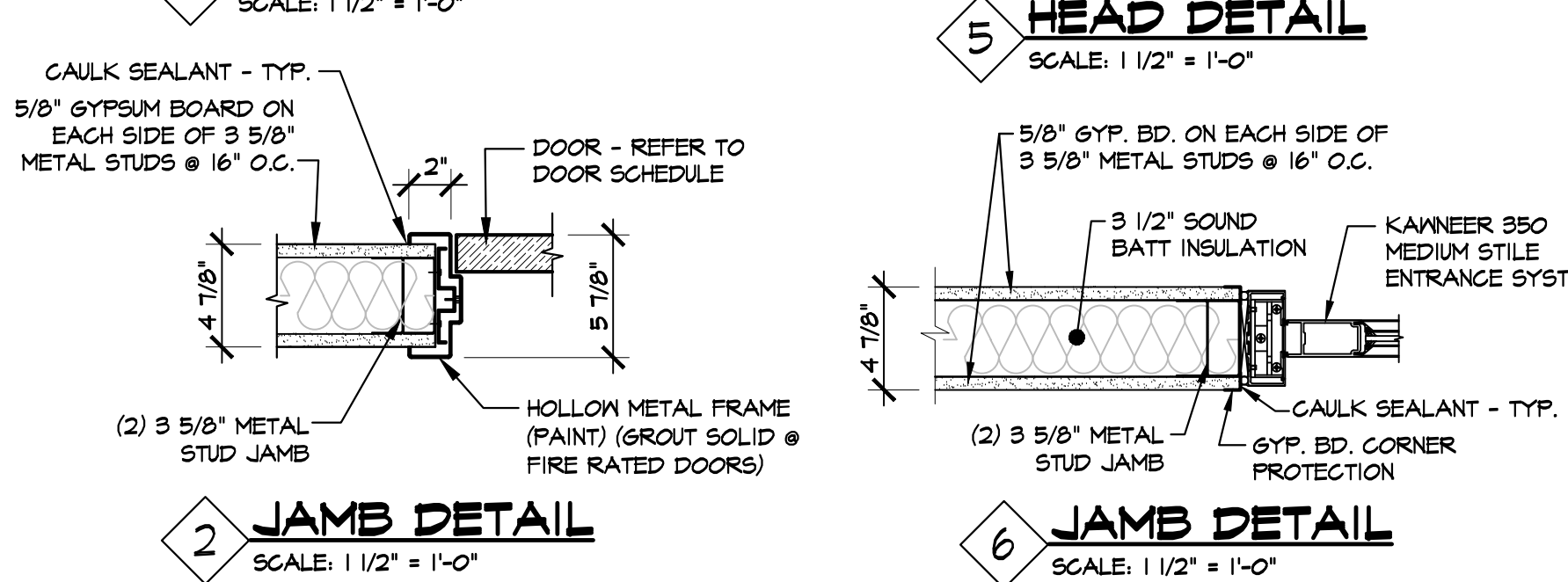
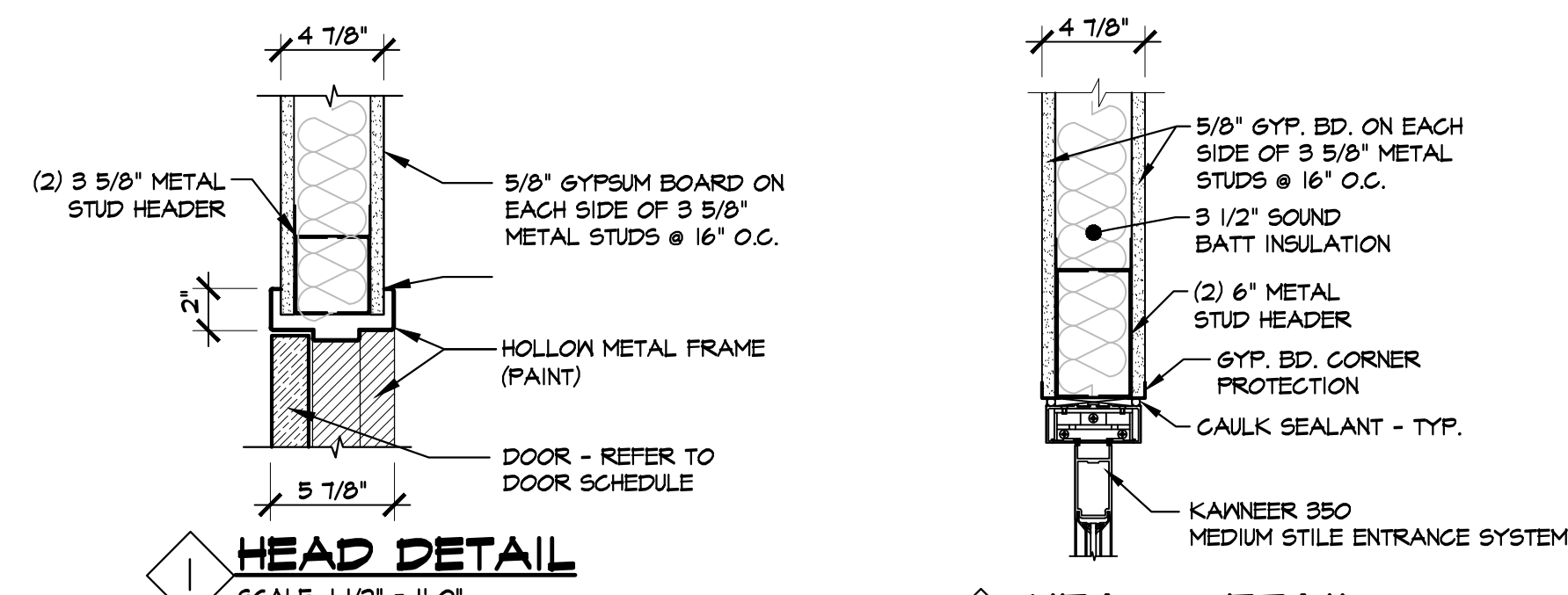
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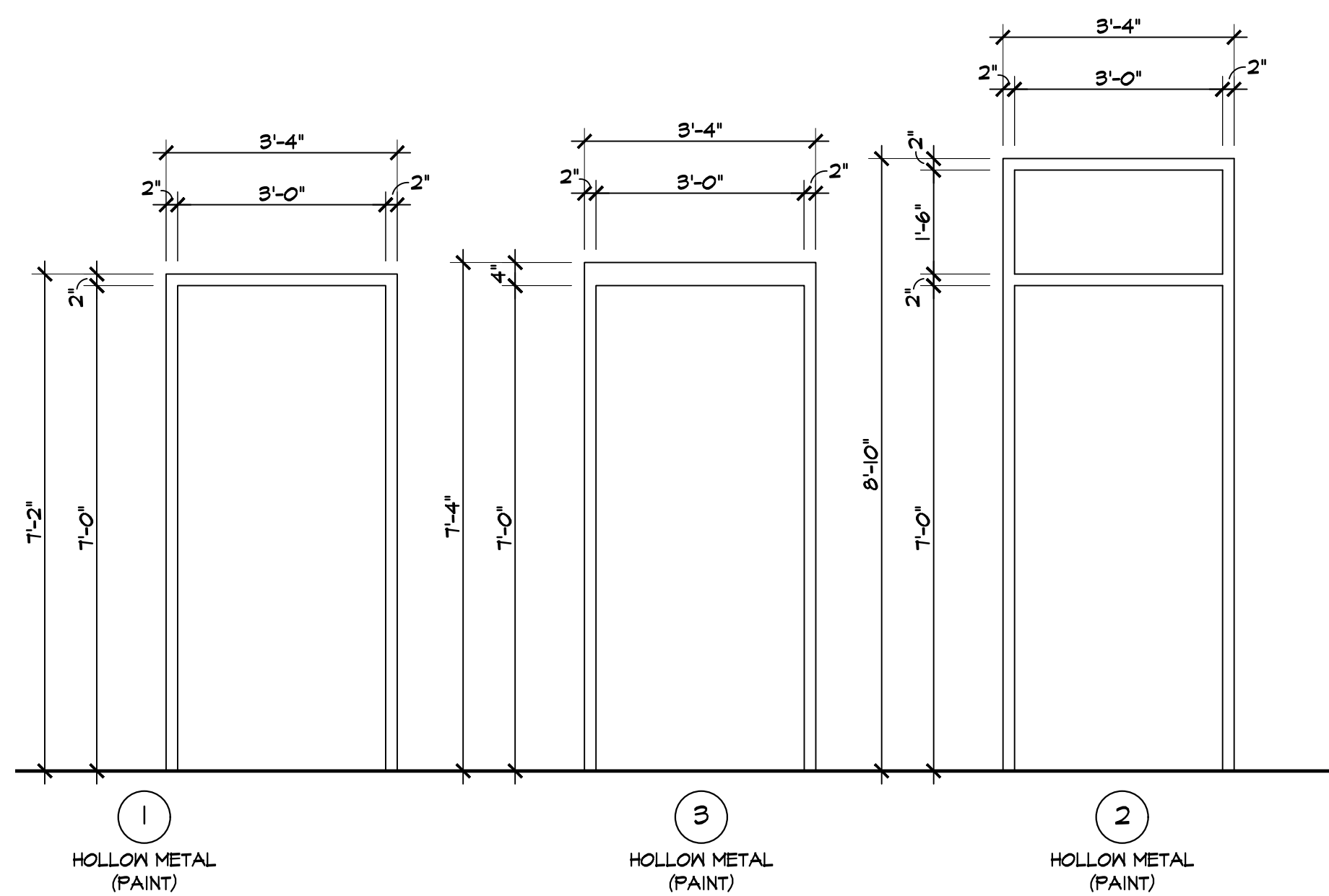
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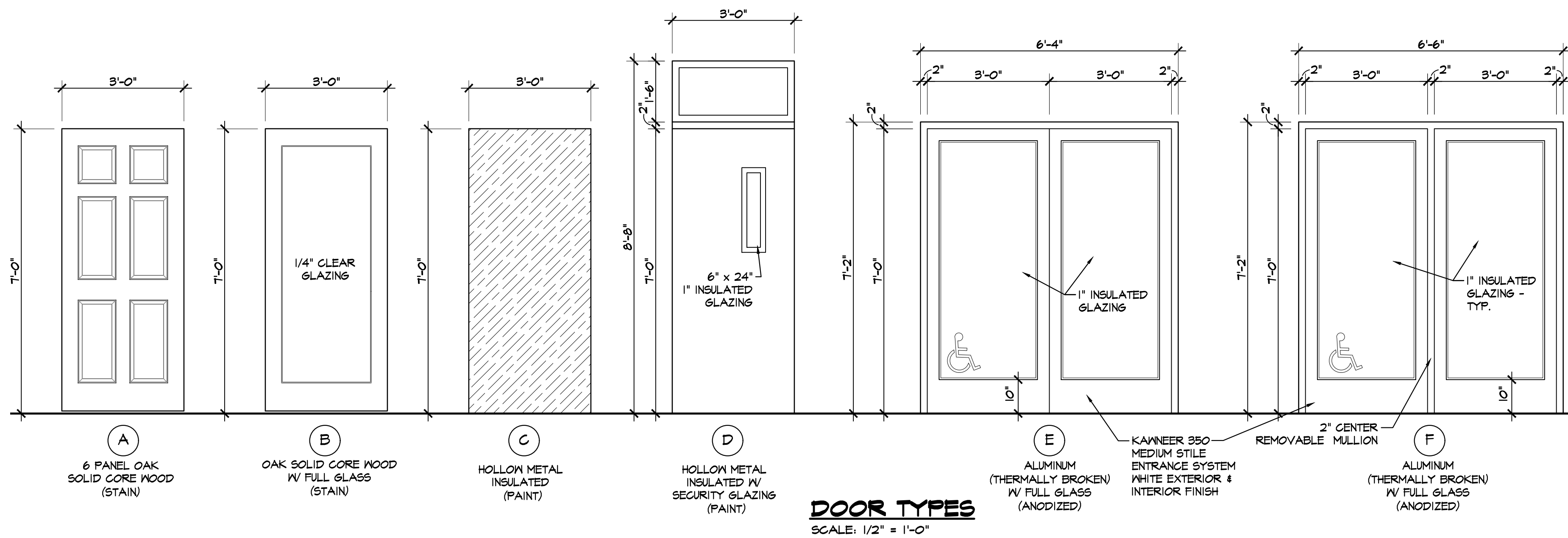
DOOR SCHEDULE													
NO.	DOOR SIZE	DOOR			FRAME			DETAILS			FIRE RATING	HARDWARE SET	REMARKS
		MATERIAL	FINISH	TYPE	MATERIAL	FINISH	TYPE	HEAD	JAMB	SILL			
101a	(2) 3'-0" x 7'-0" x 1 3/4"	ALUMINUM W/ FULL GL.	ANODIZED	F	ALUMINUM	ANODIZED	---	3	4	3	---	1	AUTOMATIC ADA LEFT LEAF, CARD READER
101b	(2) 3'-0" x 7'-0" x 1 3/4"	ALUMINUM W/ FULL GL.	ANODIZED	E	ALUMINUM	ANODIZED	---	5	6	4	---	2	AUTOMATIC ADA LEFT LEAF, CARD READER
102	3'-0" x 7'-0" x 1 3/4"	S.G. WD. W/ FULL GL.	STAIN	B	HM	PAINT	1	1	2	2	---	7	OFFICE LOCK SET
103	3'-0" x 7'-0" x 1 3/4"	S.G. WD. W/ FULL GL.	STAIN	B	HM	PAINT	1	1	2	2	---	7	OFFICE LOCK SET
104	3'-0" x 7'-0" x 1 3/4"	S.G. WD. W/ FULL GL.	STAIN	B	HM	PAINT	1	1	2	2	---	7	OFFICE LOCK SET
105	3'-0" x 7'-0" x 1 3/4"	S.G. WD. W/ FULL GL.	STAIN	B	HM	PAINT	1	1	2	2	---	7	OFFICE LOCK SET
106	3'-0" x 7'-0" x 1 3/4"	S.G. WD. W/ FULL GL.	STAIN	B	HM	PAINT	1	1	2	2	---	7	OFFICE LOCK SET
108a	3'-0" x 7'-0" x 1 3/4"	S.G. WD. W/ FULL GL.	STAIN	B	HM	PAINT	1	1	2	2	---	7	LOCK SET, CARD READER
108b	3'-0" x 7'-0" x 1 3/4"	HOLLOW METAL W/ GL.	PAINT	C	HM	PAINT	2	7	8	1	---	8	EXIT ONLY, NO EXTERIOR LOCK, CARD READER
109	3'-0" x 7'-0" x 1 3/4"	S.G. WOOD	STAIN	A	HM	PAINT	1	EX.	EX.	2	---	6	PRIVACY LOCK SET
110	3'-0" x 7'-0" x 1 3/4"	HOLLOW METAL W/ GL.	PAINT	D	HM	PAINT	3	EX.	EX.	1	---	8	CARD READER
111	3'-0" x 7'-0" x 1 3/4"	S.G. WOOD	STAIN	A	HM	PAINT	1	EX.	EX.	2	---	4	STORAGE ROOM LOCK SET, CARD READER
113	3'-0" x 7'-0" x 1 3/4"	S.G. WOOD	STAIN	A	HM	PAINT	1	1	2	2	---	5	PRIVACY LOCK SET
114	3'-0" x 7'-0" x 1 3/4"	S.G. WOOD	STAIN	A	HM	PAINT	1	1	2	2	---	5	PRIVACY LOCK SET
115	3'-0" x 7'-0" x 1 3/4"	S.G. WOOD	STAIN	A	HM	PAINT	1	EX.	EX.	2	---	4	STORAGE ROOM LOCK SET, CARD READER
116	3'-0" x 7'-0" x 1 3/4"	S.G. WD. W/ FULL GL.	STAIN	B	HM	PAINT	1	EX.	EX.	2	---	7	OFFICE LOCK SET
117	EX. VAULT DOOR	STEEL	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	---	EX.	EXISTING DOOR, ADD CARD READER

ABBREVIATIONS		
ALUM.	ALUMINUM	HR.
ANOD.	ANODIZED	M.T.
A.T.	ALUMINUM THRESHOLD	R.S.
EX.	EXISTING	S.C.
GL.	GLASS	WD.
H.M.	HOLLOW METAL	
P.H.	PRE-HUNG	

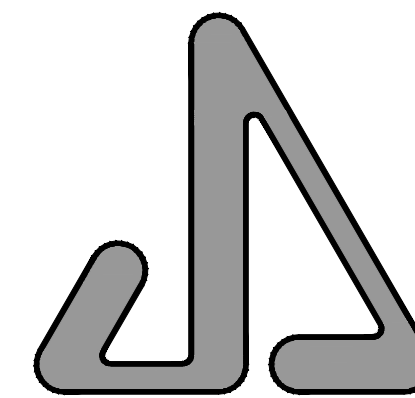
HARDWARE SCHEDULE NOTE:
SEE SHEET A-14 FOR HARDWARE SCHEDULE



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



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



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DOOR SCHEDULE,
DOOR & FRAME
ELEVATIONS &
HEAD, JAMB &
SILL DETAILS

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DOOR HARDWARE SCHEDULE

HARDWARE SET #1			
DR #101a			
1 EA. CONTINUOUS HINGE, LHR LEAF	KCFM83-HDI	628	PE
1 EA. CONTINUOUS HINGE, RHR LEAF	KCFM83-HDI-PT	628	PE
1 EA. POWER TRANSFER	CEPT-10	630	SE
1 EA. EXIT DEVICE, LHR LEAF	EPB200S X M52 X M10	630	CR
1 EA. EXIT DEVICE, RHR LEAF	EPB200S X MELR X M52 X M10	630	CR
1 EA. CYLINDER, RIM	20-022-C	626	SC
2 EA. CYLINDER, MORTISE	20-001-C	626	SC
2 EA. DOOR FULL	BF151A X 1XHD	630	RO
1 EA. AUTO OPERATOR, LHR LEAF	BESAM 5M-200	628	BE
2 EA. ACTUATORS, WIRELESS	BESAM	630	BE
1 EA. CLOSER, RHR LEAF	DC8220	604	CR
1 EA. DROP PLATE	TS4F24	604	CR
1 EA. THRESHOLD & WEATHERSTRIP	PROVIDED WITH THE DOOR		
1 EA. REMOVABLE MULLION	CRR01 X M51 X M56		CR
1 EA. POWER SUPPLY	BPS-24-1		CR
1 EA. ACCESS CONTROL SYSTEM READER	PROVIDED BY SECURITY CONTRACTOR		

FUNCTION: AFTER BUSINESS HOURS, DOORS CLOSED AND LOCKED INGRESS AT RHR LEAF BY KEY OR AUTHORIZED CREDENTIAL. DOORS WILL RELOCK UPON CLOSING.
DURING BUSINESS HOURS, BOTH DOORS MECHANICALLY UNLOCKED BY MEANS OF KEY IN CYLINDER POSING IN EXIT DEVICE TOUCH BAR. INGRESS BY PULLING DOOR OR ACTUATION OF AUTO OPERATOR BY PUSH PLATE ACTUATOR AT LHR LEAF. EGRESS BY TOUCHBAR OF EXIT DEVICE AT ALL TIMES.
AUTOMATIC OPERATORS MUST BE MANUALLY POWERED OFF/ON FOR DAY USE OR SECURED (NIGHT)

HARDWARE SET #2			
DR #101b			
2 EA. CONTINUOUS HINGE	KCFM83 - HDI	628	PE
2 EA. EXIT DEVICE	EPB200 X M52 X M10	630	CR
1 EA. CYLINDER, RIM	20-022-C	626	SC
2 EA. CYLINDER, MORTISE	20-001-C	626	SC
1 EA. AUTO OPERATOR, LHR LEAF	BESAM 5M-200		BE
2 EA. ACTUATORS, WIRELESS	BESAM		BE
1 EA. CLOSER, RHR LEAF	DC8220	604	CR
1 EA. DROP PLATE	TS4F24	604	CR
1 THRESHOLD & WEATHERSTRIP	PROVIDED WITH THE DOOR		

FUNCTION: AFTER BUSINESS HOURS, DOORS CLOSED AND LOCKED INGRESS BY KEY AT RHR LEAF.
DURING BUSINESS HOURS, DOORS MECHANICALLY UNLOCKED BY MEANS OF KEY IN CYLINDER POSING IN EXIT DEVICE TOUCH BAR. INGRESS BY PULLING DOOR OR ACTUATION OF AUTO OPERATOR BY PUSH PLATE ACTUATOR AT LHR LEAF. EGRESS BY TOUCHBAR OF EXIT DEVICE AT ALL TIMES.
AUTOMATIC OPERATORS MUST BE MANUALLY POWERED OFF/ON FOR DAY USE OR SECURED (NIGHT)

HARDWARE SET #3			
NOT USED			

HARDWARE SET #4			
DR #111, 115			
3 EA. HINGES	TA2T14 4 1/2 X 4 1/2	632	MC
1 EA. LOCKSET, STOREROOM	CL3881 AZD X C	605	CR
1 EA. ELECTRIC STRIKE	4500C	605	HE
1 EA. LIP EXTENSION	4501 X LENGTH REQUIRED		HE
1 EA. TRIM ENHANCER	4500-105	BLK	HE
1 EA. SMART PAK	2005MB		HE
1 EA. CLOSER	DC6210	646	CR
1 EA. CREDENTIAL READER AND POWER SUPPLY BY SECURITY CONTRACTOR			
3 EA. SILENCERS	604		RO

HARDWARE SET #5			
DR #113, 114			
3 EA. HINGES	TA2T14 4 1/2 X 4 1/2	632	MC
1 EA. LOCKSET, ENTRY	CL3851 AZD X C	605	CR
1 EA. FLOOR STOP	442	605	RO
1 EA. SILENCER	604		RO

HARDWARE SET #6			
DR #104			
3 EA. HINGES	TA2T14 4 1/2 X 4 1/2	632	MC
1 EA. LOCKSET, PRIVACY, OCCUPANCY INDICATOR	ML3068 ASF X M19V X LG	605	CR
1 EA. CYLINDER	SCHLAGE	605	SC
1 EA. WALL STOP	406	605	RO

HARDWARE SET #7			
DR #102, 103, 104, 105, 106, 108a, 116			
3 EA. HINGES	TA2T14 4 1/2 X 4 1/2	632	MC
1 EA. LOCKSET, ENTRY	CL3851 AZD X C	605	CR
1 EA. FLOOR STOP	442	605	RO
1 EA. SILENCER	604		RO

HARDWARE SET #8			
DR #108b, 110			
3 EA. HINGES	TA2314 NRP 4 1/2 X 4 1/2	630	MC
1 EA. LOCKSET, SECURITY ENTRY	ML2075 ASF X M34 XLC	630 X 605	CR
1 EA. CYLINDER	20-001-C	626	CR
1 EA. ELECTRIC STRIKE	1006C5	630	CR
1 EA. CLOSER	DC6210 A4	646	CR
1 EA. THRESHOLD	425 X WLD.	627	NS
1 EA. SNEEP	600A X WLD.		NS
1 EA. WEATHERSTRIP	160A	628	NS
1 EA. DRIP CAP	16A X WLD. +4"	628	NS
1 EA. LATCH PROTECTOR PLATE	321	630	

KEYING:
ALL LOCKS TO BE KEYED TO OWNER'S EXISTING SCHLAGE "C" KEYWAY MASTER KEY SYSTEM.
ALLOW EXTRA COST FOR OWNER'S SECURITY COMPANY TO COMBIMATE EACH CYLINDER.

ABBREVIATIONS:
BE BESAM
CR CORBIN RUSSWIN
HE HES
MC MCKINNEY
NS NATIONAL GUARD PRODUCTS
RO ROCKWOOD
SC SCHLAGE
SE SECURITRON

VENTING CALCULATIONS

MIN. ROOF VENT 1 / 150 PER SECTION 1202.2 MBC 2021
EXCEPTION:
VENTILATION CAN BE REDUCED TO 1 / 300 IF < 40% AND NOT MORE THAN 50% OF THE REQUIRED VENTILATION IS PROVIDED AT THE UPPER PORTION OF THE ATTIC / RAFTER SPACE & WITH IN 3'-0" OF THE HIGHEST POINT OF THE RIDGE
2,987 S.F. / 300 = 9.95 S.F. OF TOTAL NET FREE VENTILATING AREA REQUIRED

SQUARE INCH CONVERSION
9.95 S.F. X 144 = 1,432.8 SQUARE INCHES
INTAKE REQUIREMENT (SOFFIT & EAVES)
1,432.8 X 60% = 859.68 SQUARE INCHES
CONTINUOUS SOFFIT VENT LENGTH REQUIRED (4 SQUARE INCHES PER FT.)
859.68 / 4 = 95.52 FT.
LENGTH OF PROPOSED SOFFIT VENTING = 100.0 FT.

EXHAUST REQUIREMENT (RIDGE)
1,432.8 X 40% = 573.12 SQUARE INCHES
ROOF LOUVER VENTS (60 SQUARE INCHES PER VENT)
573.12 / 60 = 9.55
10 ROOF LOUVER VENTS PROPOSED

ROOF CONSTRUCTION NOTES:

- WOOD TRUSSES INSTALLED @ 2'-0" O.C.
- TRUSSES TO BE COVERED WITH 5/8" OSB SHEATHING
- FINAL TRUSS LAYOUT TO BE DETERMINED BY TRUSS MANUFACTURER.
- CONTRACTOR TO SUBMIT FINAL TRUSS DRAWINGS FROM MANUFACTURER TO ARCHITECT FOR FINAL BRACING DESIGN. CONTRACTOR SHALL INCLUDE ALL BRACING IN SCOPE OF WORK.

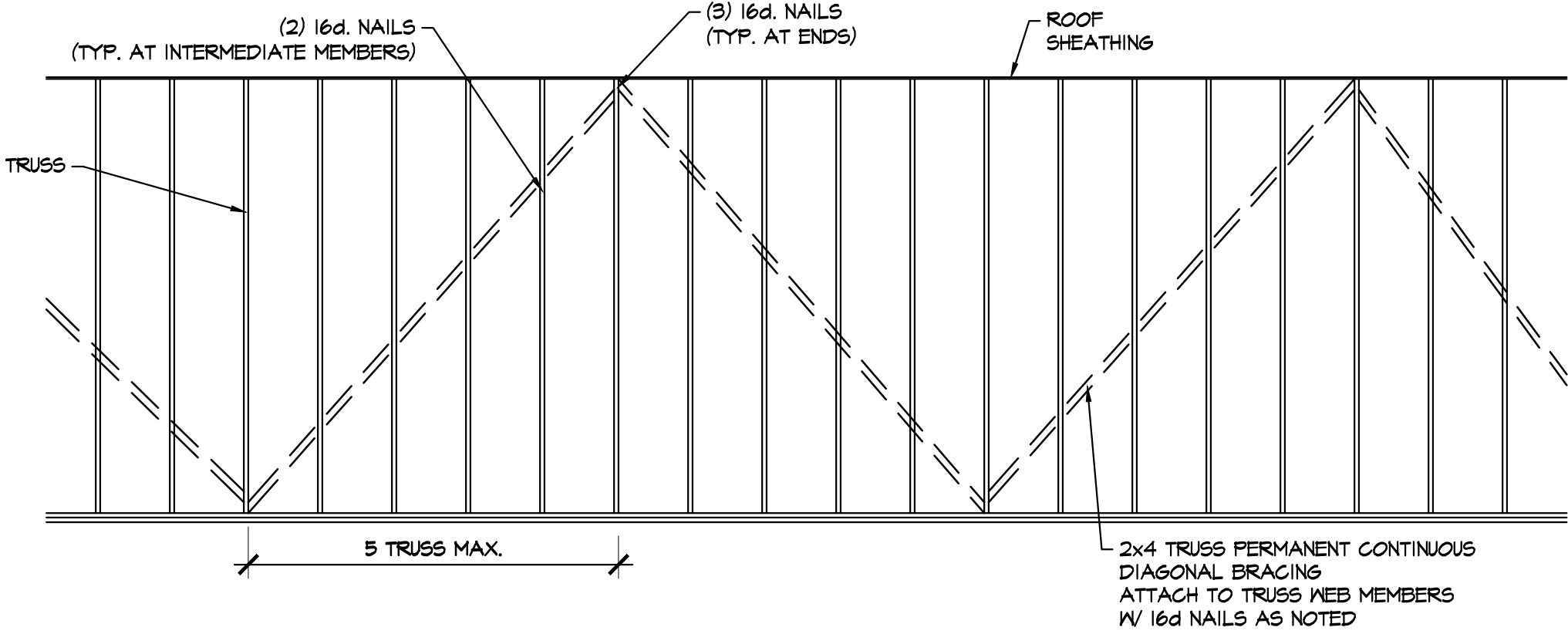
ROOFING MATERIAL SELECTIONS

ROOFING: OWENS CORNING, DURATION SHINGLES
LIMITED LIFETIME WARRANTY
COLOR: ONYX BLACK

ROOF LOUVER VENTS: 6AF MASTER FLOW, ALUMINUM, SLANT BACK
60 SQ. INCH VENTILATION PER VENT
COLOR: BLACK

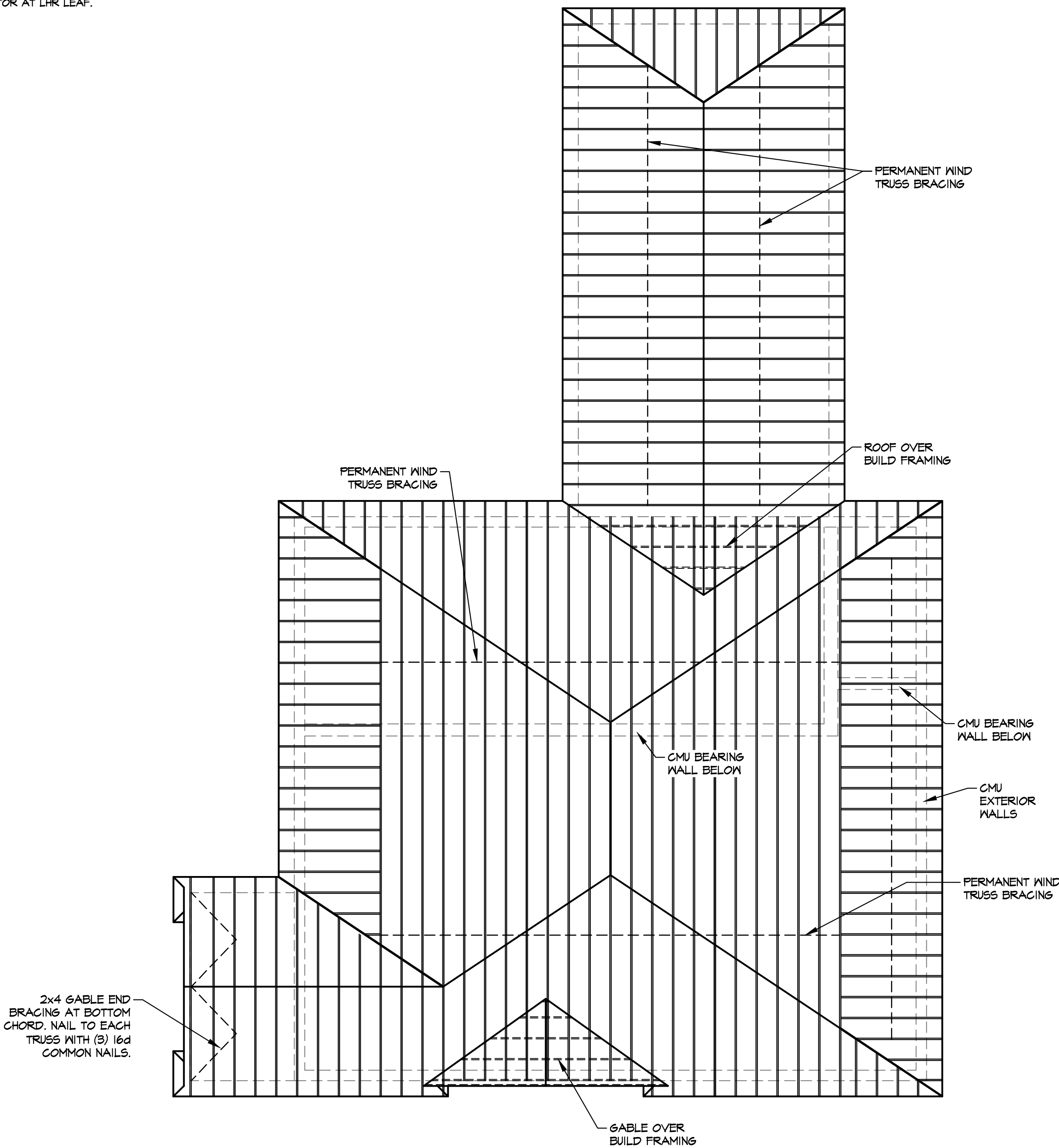
SYNTHETIC UNDERLAYMENT: TOPSHIELD, STORMSEAR
ANTI-SKID BACKSIDE COATING, 180 DAY UV PROTECTION,
ASPHALT SATURATED ORGANIC 30# FELT,
30 YEAR WARRANTY

ICE & WATER SHIELD: TOPSHIELD DEFENDER ICE & WATER, 135 MM SELF-ADHESIVE WATER PROOFING MEMBRANE, SANDED SURFACE
10 YEAR WARRANTY



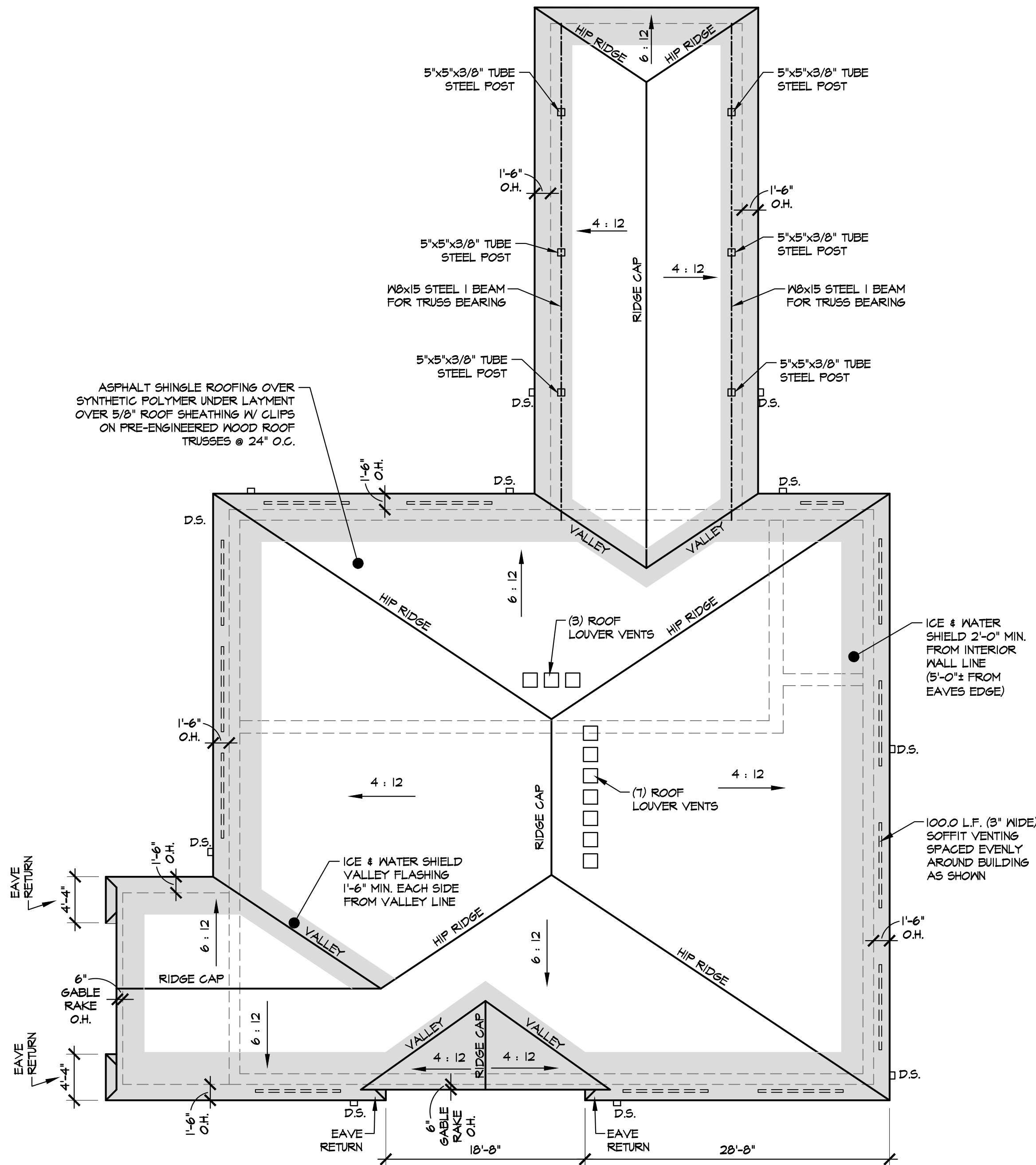
ROOF TRUSS PERMANENT WIND BRACING DETAIL

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



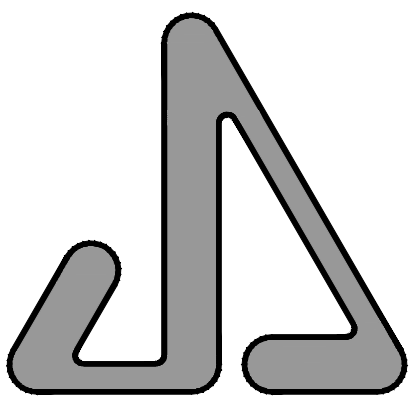
ROOF FRAMING PLAN

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



ROOF PLAN

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



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ROOF PLAN,
ROOF FRAMING
PLAN &
DOOR HARDWARE
SSCHEDULE

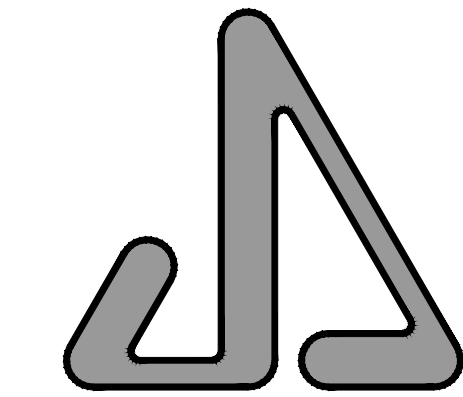
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DATE:	ISSUED FOR:
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REVIEW'D	ROOF FRAMING
202543	

A-14

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GENERAL DEMOLITION NOTES:

1. THE MECHANICAL CONTRACTOR SHALL REMOVE EXISTING FURNACES, DUCTWORK, DIFFUSERS, LOUVERS, EXHAUST FANS, CONDENSING UNITS, REFRIGERANT PIPING AND CONTROLS. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT, DUCTWORK AND DIFFUSER LOCATIONS.
2. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND PATCHING ALL FINISHED SURFACES REQUIRED DUE TO THE DEMOLITION OF MECHANICAL EQUIPMENT, DUCTWORK AND DIFFUSERS.
3. EXISTING SERVER ROOM INDOOR UNIT TO REMAIN. EXISTING ASSOCIATED CONDENSING UNIT TO BE RELOCATED FROM ROOF TO GRADE. REFER TO NEW PLANS.



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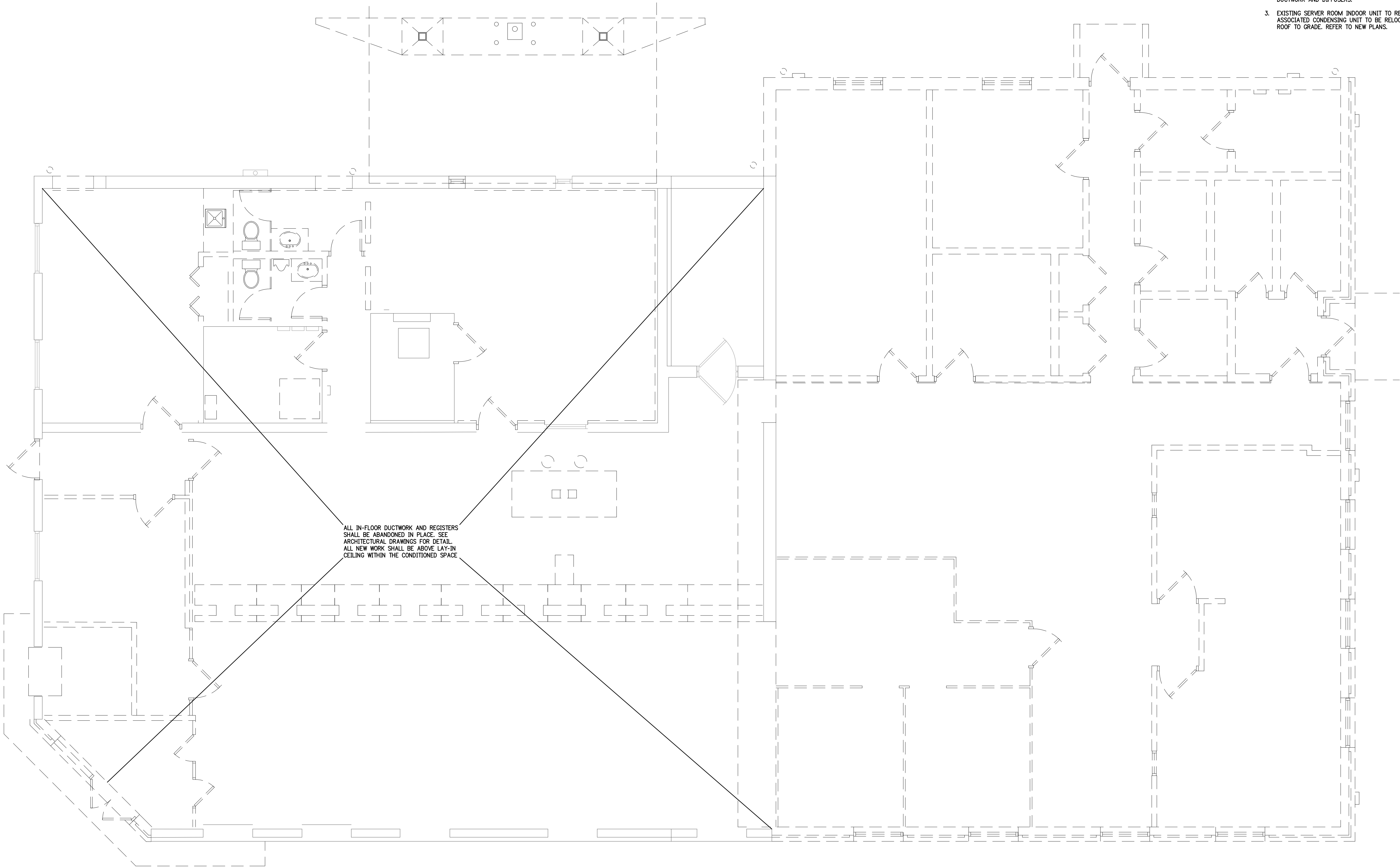


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FLOOR PLAN
MECHANICAL
DEMOLITION



FLOOR PLAN - MECHANICAL DEMOLITION

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



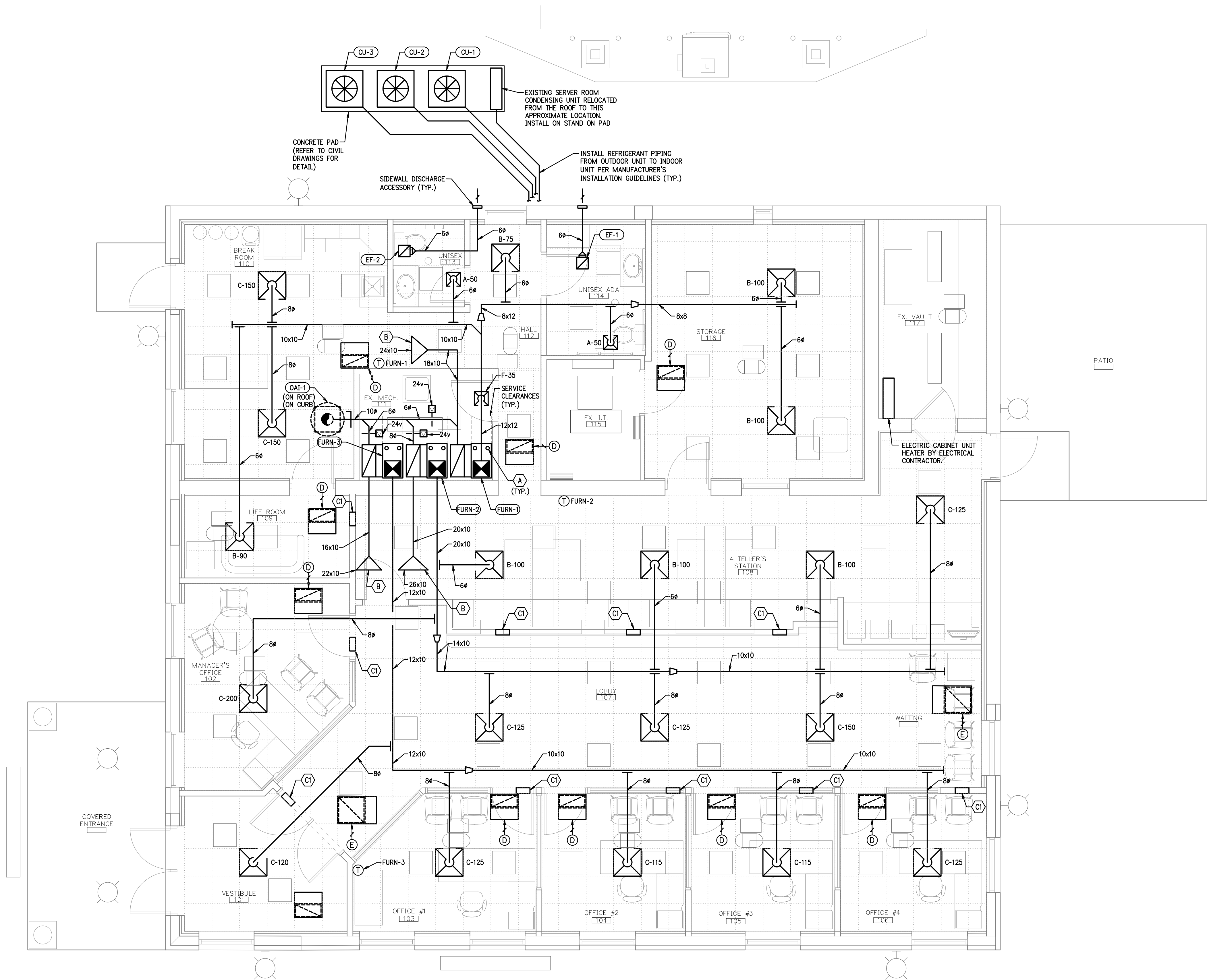
03-06-26	BIDS
DATE:	ISSUED FOR:
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REVIEW'D	JDS

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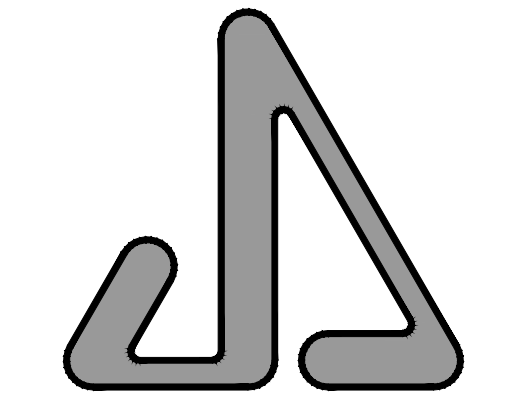
M-1

1 OF 1

- PLAN NOTES:
- A. REFER TO CONCENTRIC VENT DETAIL ON SHEET M-3.
- B. RETURN DUCT WITH EXPANDED METAL GRILLE.
- C. PROVIDE TRANSFER AIR OPENING IN WALL ABOVE CEILING, SIZE OPENING AS INDICATED : C1 = 1 SF OF FREE AREA, C2 = 2 SF OF FREE AREA, C3 = 3 SF OF FREE AREA.



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



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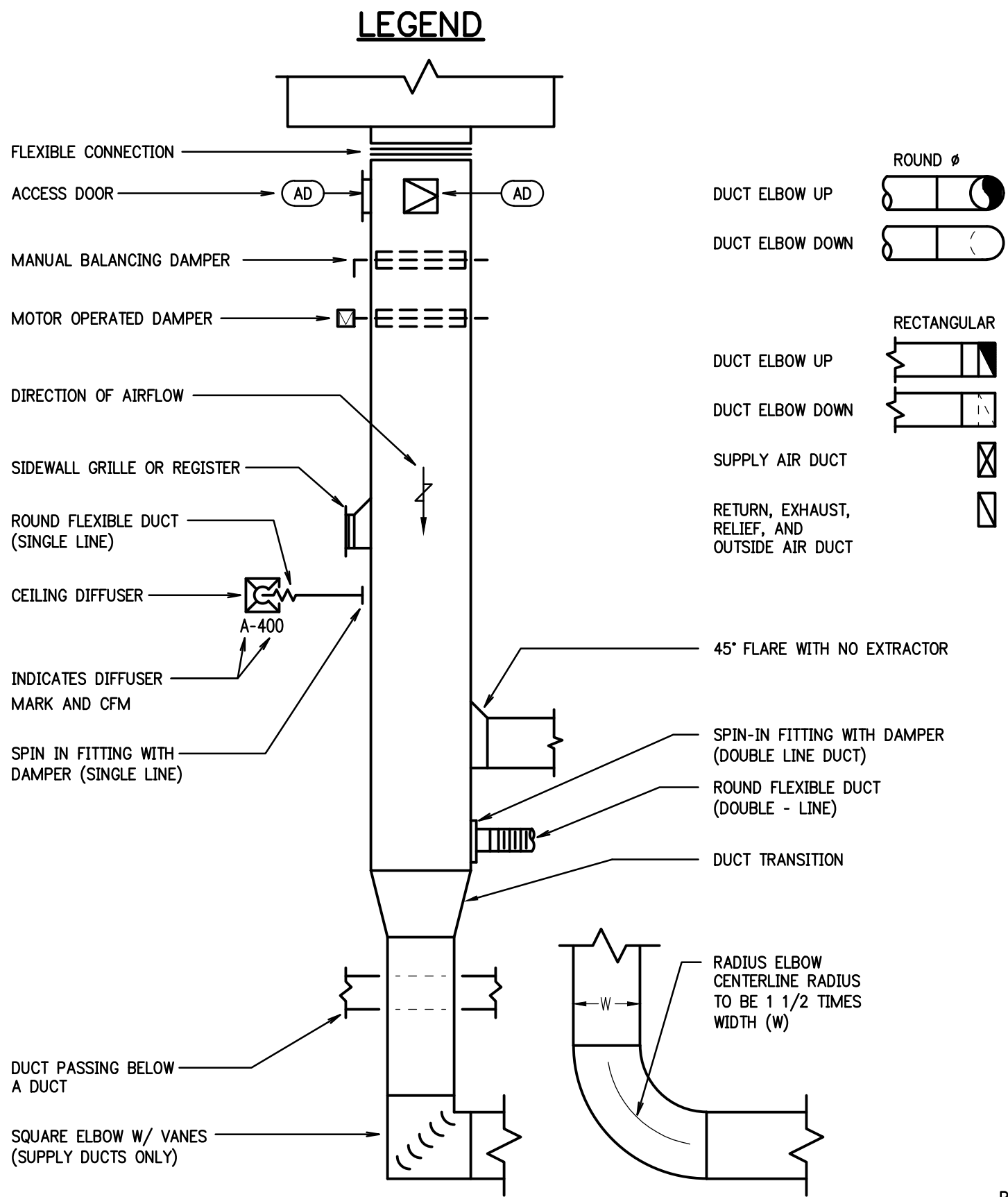
JDRM Engineering
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Sylvania, Ohio 43560
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RENOVATIONS &
REMODELING FOR:
Monroe
COMMUNITY CREDIT UNION
MONROE
COMMUNITY
CREDIT UNION
14 WINCHESTER STREET
MONROE MI 48161
PROPERTY OWNER CONTACT:
KRISTINE BRENNER, CEO
715 TELEGRAPH ROAD
MONROE MI 48162
734-384-2705
kbrenner@monroecommunitycu.org

FLOOR PLAN
MECHANICAL

03-06-26	BIDS
DATE:	ISSUED FOR:
DRAWN	BRR
REVIEW'D	JDS
202543	

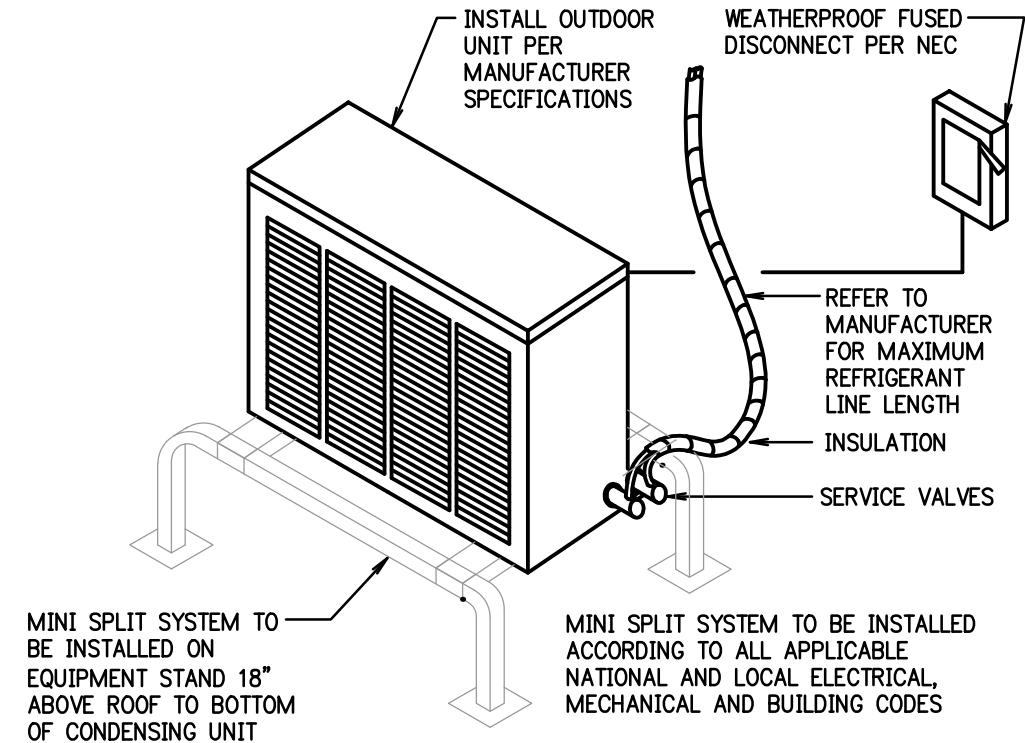
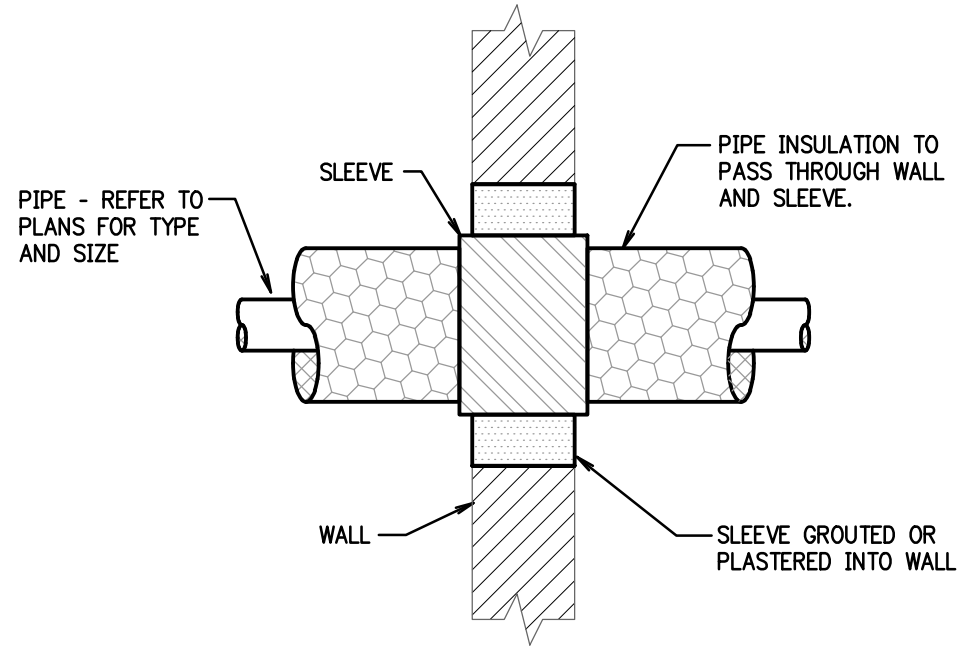
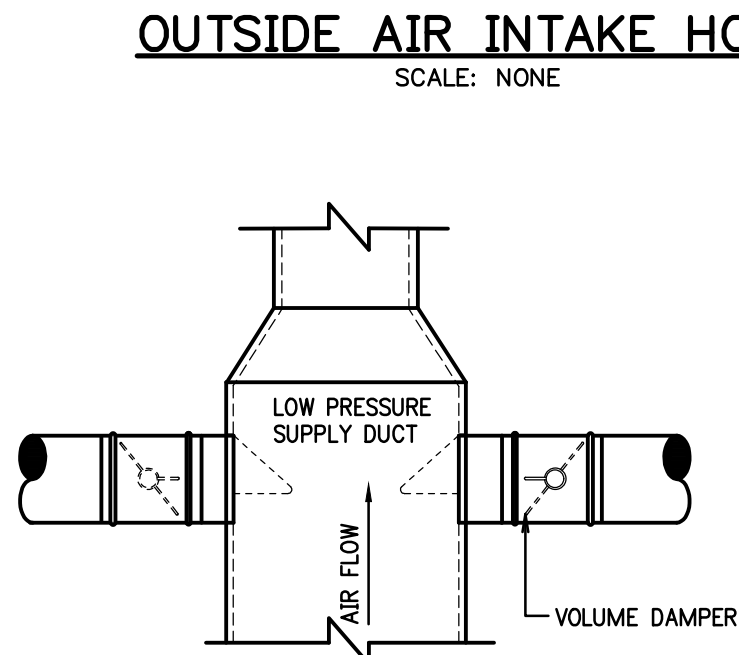
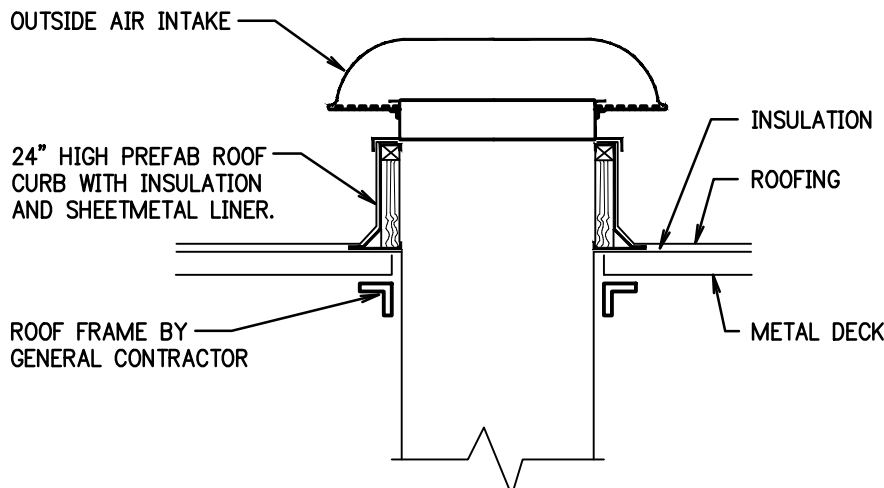
M-2



DUCTWORK NOTES:

- ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED PER THE LATEST SMACNA STANDARDS.
- ALL TRANSVERSE AND LONGITUDINAL SEAMS ARE TO BE SEALED WITH A DUCT SEALER MATERIAL. SEE SPECIFICATION FOR TYPE.
- ALL DUCTWORK SHALL BE FABRICATED, AT A MINIMUM, PER THE FOLLOWING PRESSURE REQUIREMENTS AS LISTED IN THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS:

PRESSURE RATING	DUCTWORK
2" POSITIVE OR NEGATIVE	1. GENERAL EXHAUST AIR DUCTS. 2. SUPPLY AIR DUCTWORK IN CONSTANT AIR VOLUME SYSTEMS WITHOUT TERMINAL UNITS. 3. RETURN AIR DUCTS.
- DIMENSIONS OF DUCTWORK AT 2" POSITIVE OR NEGATIVE PRESSURE, SPECIFIED TO BE INTERNALLY LINED, ARE AIR FLOW DIMENSIONS AND DO NOT INCLUDE AN ALLOWANCE FOR INSULATION THICKNESS.

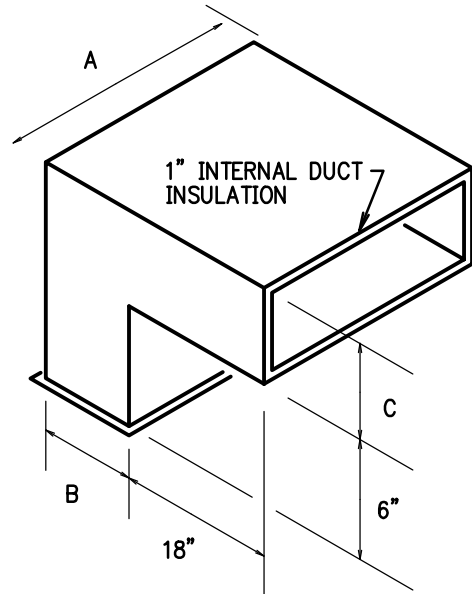


DUCTLESS SPLIT CONDENSING UNIT DETAIL



CEILING EXHAUST FAN DETAIL

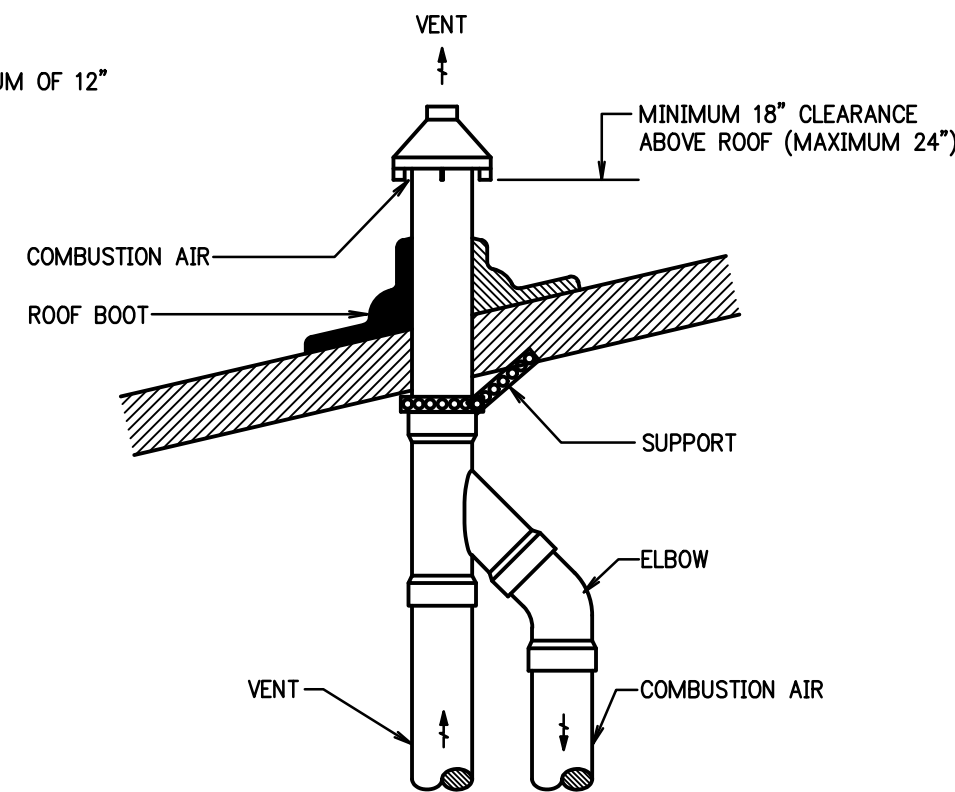
SCALE: NONE



RETURN AIR ELBOW DETAIL

SCALE: NONE

NOTE:
A = GRILLE WIDTH
B = GRILLE DEPTH
C = GRILLE DEPTH PLUS 2" OR MAXIMUM OF 12"



CONCENTRIC VENT DETAIL FOR HIGH EFFICIENCY FURNACES

NO SCALE

- NOTES:
- INSULATE THE VENT PIPE IN UNCONDITIONED SPACES
 - INSULATE THE COMBUSTION AIR PIPE IN CONDITIONED SPACES

FURNACES, COILS AND CONDENSING UNITS

SCHEDULE BASED ON TRANE																
MARK	FURNACE							COOLING COIL				CONDENSING UNIT			REMARKS	
	MODEL	CFM	SP IN WC	MBH INPUT	MBH OUTPUT	HP	POWER	MODEL	EAT °F DBT/°WBT	MBH SENS.	MBH TOTAL	MODEL	AMBIENT	POWER		
FURN-1	S9X2B040U3	800	0.50	40/26	39/25	1/2	120/1/60	5TXCB003	80/67	17	23	5TTR4024	95°F	208/230/1/60	90 CFM OA	
FURN-2	S9X2B040U3	1,025	0.50	40/26	39/25	1/2	120/1/60	5TXCB003	80/67	23	29	5TTR4030	95°F	208/230/1/60	140 CFM OA	
FURN-3	S9X2B040U3	600	0.50	40/26	39/25	1/2	120/1/60	5TXCB003	80/67	11	17	5TTR4018	95°F	208/230/1/60	50 CFM OA	

- NOTES:
- FURNISH AND INSTALL AUXILIARY DRAIN PAN.
 - TWO STAGE HEATING.
 - FURNISH AND INSTALL HORIZONTAL CONCENTRIC VENT KIT.
 - CONDENSING UNIT SHALL HAVE A MINIMUM SEER OF 14.
 - FURNISH AND INSTALL REFRIGERANT PIPING FROM CONDENSING UNIT TO FURNACE PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
 - DISCONNECT SWITCHES BY ELECTRICAL CONTRACTOR.
 - THERMOSTAT EQUAL TO CARRIER CONNECT OR ENGINEER APPROVED EQUAL.

FANS

SCHEDULE BASED ON GREENHECK											
MARK	SERVICE	CFM	SP IN. WC	HP	FAN RPM	DISCONNECT SWITCH PROVIDED	MAX. SOUND RATING	DRIVE	MODEL	POWER	NOTES
EF-1	UNISEX 114	75	0.375	15w	773	YES	2.5 SONES	DIRECT	SP-LP0511-1	120/1/60	1
EF-2	UNISEX 113	75	0.375	15w	773	YES	2.5 SONES	DIRECT	SP-LP0511-1	120/1/60	1

- NOTES:
- CONTROL TO BE INTERLOCKED WITH ASSOCIATED ROOM LIGHTS.

ROOF VENTS

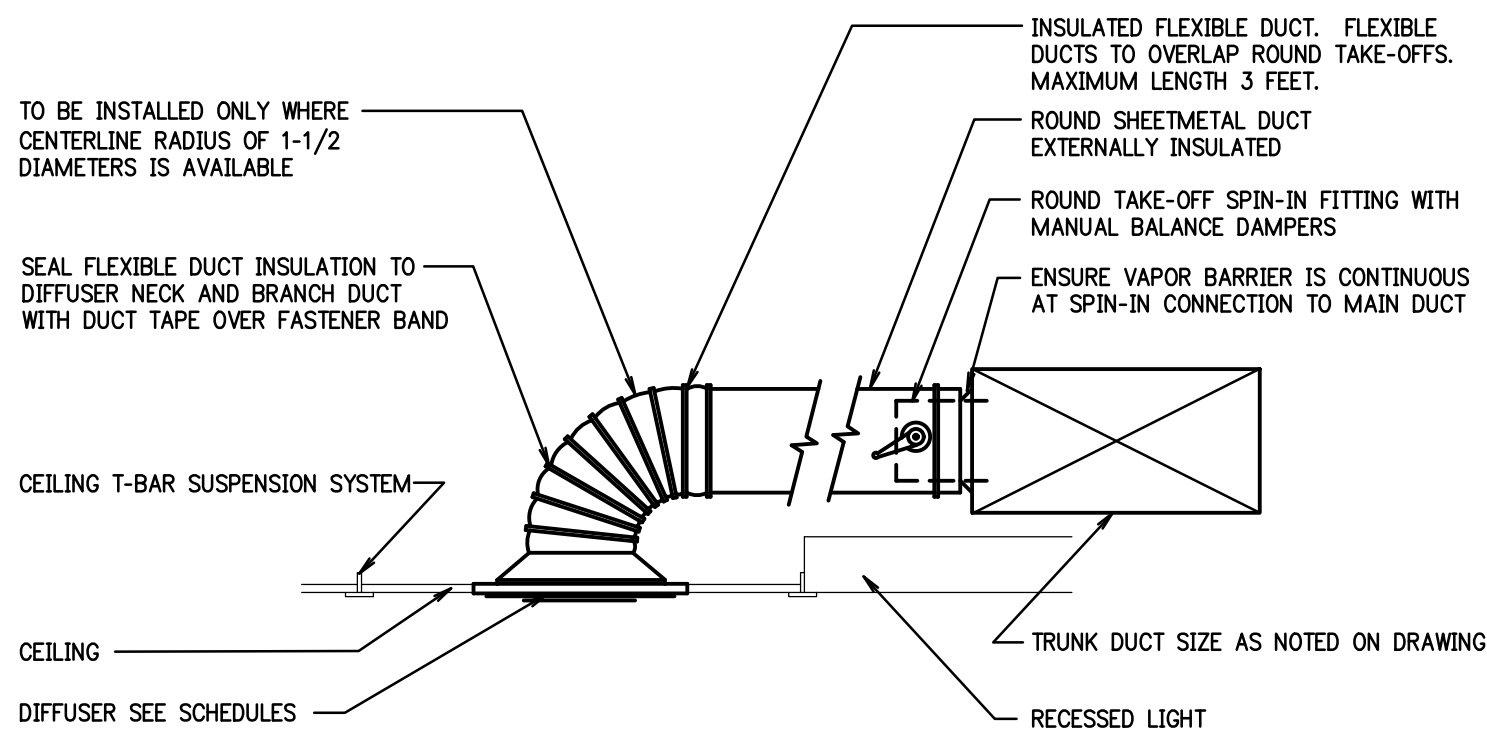
SCHEDULE BASED ON GREENHECK								
MARK	SERVICE	CFM	SP IN WC	VEL FPM	WIDTH IN	LENGTH IN	MODEL	NOTES
OAI-1	FURN-1,2,3 OUTSIDE AIR	280	0.04	491	20.5	20.5	GRSI-10	1,2

- NOTES:
- 24" MOTORIZED DAMPER AT EACH FURNACE TO BE INTERLOCKED WITH ASSOCIATED FURNACE BLOWER MOTOR (BY M.C.).
 - PROVIDE INSECT SCREEN.

GRILLES REGISTERS AND DIFFUSERS

SCHEDULE BASED ON PRICE							
MARK	USAGE	STYLE	MODEL	SIZE	DESCRIPTION OF BLOW	DAMPER	REMARKS
A	SUPPLY	LAY-IN	ASPD	12x12 - 6"ø	4-WAY	N	
B	SUPPLY	LAY-IN	ASPD	24x24 - 6"ø	4-WAY	N	
C	SUPPLY	LAY-IN	ASPD	24x24 - 8"ø	4-WAY	N	
D	RETURN	LAY-IN	80	24x12	---	N	
E	RETURN	LAY-IN	80	24x24	---	N	
F	SUPPLY	SURFACE	ASPD	12x12 - 6"ø	4-WAY	Y	

- NOTES:
- SUPPLY, RETURN, AND EXHAUST GRILLES INSTALLED IN DRYWALL CEILING SHALL HAVE DAMPER IN NECK.
 - BRANCH DUCT TO DIFFUSER OR GRILLE SHALL BE SAME SIZE AS NECK.
 - DIFFUSERS AND GRILLES SHALL BE SELECTED WITH A MAXIMUM NC = 25



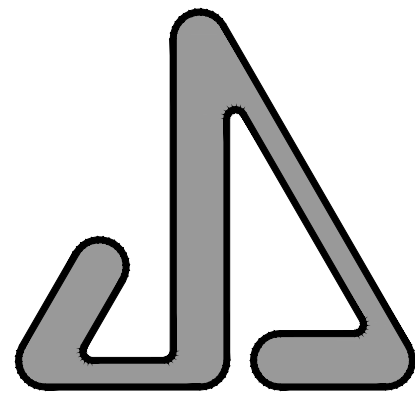
DUCT TO DIFFUSER CONNECTION DETAIL

SCALE: NONE

Rm#	Room Name	1	Ventilation Based on People			Ventilation Based on Area			Adjusted O.A. CFM	Total Ventilation CFM	Room Exhaust
		A.C.	No. of People	CFM/Person	Vent. CFM	Floor Area	CFM/Sq. Ft.	Vent. CFM			
110	Break Room	40	4	5	20	264	0.06	16	36	36	0
112	Hall	17	0	0	0	113	0.06	7	7	7	0
113	Unisex	5	0	0	0	35	0.00	0	0	0	0
114	Unisex ADA	10	0	0	0	74	0.00	0	0	0	0
116	Storage	46	0	0	0	305	0.12	37	37	37	0
109	Life Room	12	1	5	5	78	0.06	5	10	10	0
111	Ex. Mech	11	0	0	0	75	0.00	0	0	0	0
Sub Totals Sheet 1:					25			64	90	89	0

Rm#	Room Name	1	Ventilation Based on People			Ventilation Based on Area			Adjusted O.A. CFM	Total Ventilation CFM	Room Exhaust
		A.C.	No. of People	CFM/Person	Vent. CFM	Floor Area	CFM/Sq. Ft.	Vent. CFM			
0	Waiting	17	4	5	20	114	0.06	7	27	27	0
107	Lobby	70	4	5	20	468	0.06	28	48	48	0
108	Teller's Station	75	4	5	20	497	0.06	30	50	50	0
102	Manager Office	25	1	5	5	168	0.06	10	15	15	0
Sub Totals Sheet 1:					65			75	140	140	0

Rm#	Room Name	1	Ventilation Based on People			Ventilation Based on Area			Adjusted O.A. CFM	Total Ventilation CFM	Room Exhaust
		A.C.	No. of People	CFM/Person	Vent. CFM	Floor Area	CFM/Sq. Ft.	Vent. CFM			
101	Vestibule	17	0	0	0	113	0.00	0	0	0	0
103	Office 1	19	1	5	5	129	0.06	8	13	13	0
104	Office 2	17	1	5	5	113	0.06	7	12	12	0
105	Office 3	17	1	5	5	113	0.06	7	12	12	0
106	Office 4	17	1	5	5	113	0.06	7	12	12	0
Sub Totals Sheet 1:					20			28	49	48	0



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MECHANICAL
SCHEDULES
AND DETAILS

03-06-26	BIDS
DATE:	ISSUED FOR:
DRAWN	BRR
REVIEW'D	JDS

202543

M-3

1 OF 1

OUTLINE MECHANICAL SPECIFICATIONS

DIVISION 22 & 23 - BASIC MECHANICAL REQUIREMENTS

A. General:

These are Outline Specifications and not intended to cover all necessary items, but are to serve only as a guide. It is intended that the Mechanical Systems as described herein will be furnished and installed.

Contractor shall visit the job site and examine all existing conditions.

All work shall be installed in accordance with local and state codes and regulations and materials for the approval of the inspection department having jurisdiction.

All work specified herein shall carry the Contractor's Warranty for workmanship and materials for a period of one year minimum (or as specified) from the date of final acceptance or beneficial use by the Owner, whichever occurs later. The Contractor shall remedy the defects and reimburse the Owner for all damage to other work, whether caused by the defects or the work of correcting same. Provide an extended four (4) year replacement warranty for the refrigeration compressors after the first year full replacement warranty (parts and labor). The four (4) year warranty shall be for compressor replacement only; all labor charges will be the responsibility of the Owner.

All work shall be done by mechanics skilled in the particular trade involved, under responsible supervision and with the best modern practices.

All materials shall be new and of the grade and quality specified. Only the best material of each class specified shall be used.

In new construction, the General Contractor will provide duct openings and pipe shaft openings where shown on the architectural or structural drawings and also where indicated and sized by this Contractor.

In existing construction, this Contractor shall do all cutting, core drilling, and patching as required for complete installation unless openings are indicated on the architectural drawings. This Contractor shall hire the General Contractor to do all patching to match existing conditions.

This Contractor shall install all miscellaneous steel and hardware as required to support, hang and secure all equipment as furnished, relocated or revised by him, unless such materials are specifically called out to be provided by other Contractors.

Manufacturer's directions shall be followed in all cases where the manufacturers' guidelines used in this Contract furnish directions covering specific points not shown on the drawings or mentioned in the specifications.

All work installed under this contract shall be tested in the presence of and to the satisfaction of the inspecting authority having jurisdiction and the Owner's Representative.

Mechanical shop drawings, fixture cuts, and schedules shall be submitted for review, in general, before starting, and as to cause no delay in this work or that of any other Contractor or Subcontractor. Shop drawings may be submitted in electronic format utilizing PDF files. The submittal shall be organized by specification section and contain all required information within a PDF document for each specification section. If hard copies of shop drawings are submitted, a minimum of six copies shall be submitted. All shop drawings whether electronic or hard copies shall bear the stamp of approval of the Contractor as evidence that the submittals have been approved by him.

This Contractor shall cooperate fully with the Owner in scheduling and making connections into existing service lines so as to cause the least possible inconvenience and shortest interruption of service. Contractor shall include any time and materials necessary for draining, venting, purging and refilling the existing system to permit connection of the new or removal of existing equipment, piping, etc.

This Contractor to remove all unused ductwork, piping, etc. from the area and remove it from the premises. The Owner shall be given the option of retaining any removed items. The Contractor shall, in general, keep the site clean and free of all debris generated by his work.

Before running any ducts, piping, etc. within the building, this Contractor shall ensure himself that they can be installed as contemplated without trapping or interfering with columns, beams, piping, fixtures, etc. Contractor to verify all measurements and conditions at job site before proceeding with the work.

Of necessity, openings, supporting steel, field-built curbs, electrical duct, space requirements, etc. were designed around specific parameters. It shall become the Contractor's responsibility to change as necessary, through the Architect and interested Contractors on the job, all required parameters, so that openings, supporting steel, curbs, electrical duct, etc. will fit the equipment supplied. Any additional cost will be the sole responsibility of this Contractor.

Removed material may contain asbestos or lead. Contractor to advise Owner's Representative of any material which he suspects may contain asbestos or lead. Any costs involved with necessary testing of installed materials will be the Owner's responsibility. Removal of any materials which prove to contain asbestos or lead will be the Owner's responsibility.

Reduction of Lead in Drinking Water Act (PL 111-380): Products intended to dispense water for human consumption through drinking or cooking shall comply with the following:

- A weighted average lead content of not more than 0.25% as determined by NSF/ANSI 372, and NSF/ANSI 61.
- Product shall be certified compliant with these requirements by an American National Standards Institute (ANSI) accredited certification organization.
- Acceptable Product Marking: NSF®-61 and NSF®-372 (or NSF®-61-G) or other accepted certifier marks demonstrating third party certification with these requirements.

Clean and disinfect water distribution piping as follows:

- During construction pipe openings shall be plugged to minimize dirt accumulation in the lines.
- Purge new potable water distribution piping systems and parts of existing potable water systems that have been altered, extended or repaired prior to use.
- Use purging and disinfection procedure prescribed by authority having jurisdiction or, if a method is not prescribed by that authority, the procedure described in either AWWA C651 or AWWA C652 or as described below:
- Flush piping system with clean, potable water until dirty water does not appear at outlets.
- Fill system or part thereof with water/chlorine solution containing at least 50 parts per million of chlorine. Isolate (valve off) and allow to stand for 24 hours.
- Drain system or part thereof of previous solution and refill with water/chlorine solution containing at least 200 parts per million of chlorine. Isolate and allow to stand for 3 hours.
- Flush system with clean, potable water until chlorine does not remain in water coming from system following allowed standing time.
- Submit water samples in sterile bottles to authority having jurisdiction. Repeat procedure if biological examination made by the authority shows evidence of contamination.
- Prepare and submit reports for purging and disinfecting activities and deliver to owner.

B. Scope of Work:

Plumbing
Mechanical

C. Electrical:

The Electrical Contractor will provide all power wiring, starters and disconnects unless equipment is provided with starters or disconnect switches at the point of the assembly. The Mechanical Contractor shall furnish all special control lines, control and interlock wiring, and motors required for the operation of all equipment provided under his sections of work.

In general, all motors under 1/2 horsepower will be 120V/1/60. For electrical power characteristics of other motors, see the mechanical drawings and schedules.

Motors 1/2 HP and over will be provided with across-the-line starters with overload protection unless otherwise specified. All motors under 1/2 HP shall have integral overload protection. On factory-supplied pre-wired equipment, accessory motors such as condensing unit fan motors may be single phase instead of three phase if standard with the manufacturer. All motors must conform to current NEMA Standards.

Where electrical requirements and/or motor horsepower for the equipment supplied varies from that shown on the mechanical drawings or as specifically called out in the Mechanical Specifications, the Electrical Drawings and Specifications shall govern and be adhered to as to electrical power characteristics for the supplied equipment.

All open drive motors shall be of the high efficiency class with a minimum power factor of 82%.

Motors 15 HP and above that are on variable frequency drives shall have AEGIS shaft grounding rings.

D. Contract Closeout:

Testing and Adjustment:

Contractor shall operate all parts of the entire system, make any and all adjustments and repairs, and shall leave the entire work tested and ready for operation by the Owner and/or operation and final testing and balancing by the Testing and Balancing Contractor.

Operating Instructions:

Contractor shall provide four complete manuals in hardcover binders, each containing all operating, servicing, lubrication, etc. information and parts lists for all equipment installed under his Contract. In addition, each manual shall contain a copy of each approved equipment submittal along with contact information for the supplier. Where diagrams are too large for the binder, arrange manila pockets with reinforced holes to hold folded drawings. Manuals to be submitted for approval at least 30 days before completion of the work.

Contractor shall arrange for technical instruction of the Owner's Maintenance Personnel for such time as is reasonably required to acquaint them with their duties. Instruction period shall be after all systems are in operation, and have been tested, balanced and adjusted.

Record Drawings:

Contractor shall keep an accurate record of all deviations from contract drawings. He shall neatly and correctly enter, in colored pencil, any deviations on drawings affected during the progress of the project and shall keep drawings available for inspection. At completion of job and before final acceptance, make any final corrections to drawings and deliver same to the Owner's Representative.

Balancing:

This Contractor shall provide for approval, prior to final acceptance by the Owner's Representative, a Balancing Contractor who is a fully certified member of the National Environmental Balancing Bureau or the Associated Air Balance Council or an independent firm whose principals are registered Professional Engineers.

A qualified Balancing Contractor shall be used to perform these services. Contractor shall use a Balancing Contractor who is a fully certified member of the National Environmental Balancing Bureau or the Associated Air Balance Council or an independent firm whose principals are registered Professional Engineers.

The above tests and adjustments are made to accomplish the conditions as set forth in the Drawings and Specifications

Mechanical Contractor shall include the cost of balancing in his bid.

E. Hangers and Supports for Piping and Equipment:

All piping materials furnished and all procedures followed in fabrication and erection shall comply with the applicable sections of the local Building Code, applicable Pressure Piping Code, and requirement of applicable sections of 'Building Services Piping', ASME B31.9, latest revision and addenda.

Contractor shall furnish and install all adjustable hangers, special pipe supports spring hangers, anchors, guides, clamps, rods, miscellaneous iron supports and appurtenances as required to securely and properly hang or support the piping systems. On insulated piping, hangers to be oversized to fit on the outside of insulation with a heavy gauge protection pipe saddle or shield. Vertical lines shall be supported by pipe clamp type supports designed for this purpose at each floor level. Hangers to be equivalent to Anvik International No. 260 clevis type, or for bare copper pipe, Anvik International Fig. CT-99C.

Steel Pipe Maximum Spacing:

- thru 1-1/4": 7' Max
- 1-1/2": 9' Max

Copper Tubing Maximum Spacing:

- thru 3/4": 5' Max

Pipe, Hanger and Rod Size Shall be as Follows:

- 3/4" to 2" inclusive: 3/8" rod

Contractor shall do all excavating and backfilling in connection with his work. No piping shall be laid in water. Backfill within building or under paving exterior to building shall be clean fine sand, as approved by the Owner's Representative, to proper finished grade. Backfill outside of building lines shall be tamped sand to 24 inches above pipe with remaining backfill being clean earth to proper finished grade.

Sleeves shall be installed by Contractor wherever pipes pass through walls, concrete or masonry slabs, walls, floors or ceilings. Openings around exposed and concealed pipes or in sleeves for pipes passing through floor slabs, fire-rated walls, smoke partitions, or fire rated ceilings shall be sealed with a noncombustible fire stop material. Seal at both sides of wall. Insulation shall not extend through sleeve. Pack sleeve opening with STI SpecSeal or equivalent. Depth of fill material shall provide same fire rating as floor or wall penetrated. Fiberglass is not acceptable except as a backing for the above materials.

Where a copper pipe connects to a steel pipe, the connection shall be made with a dielectric union or flanges with dielectric bolt sets. Dielectric couplings shall not be used. When connections are made at coils or similar situations which include such items as steel or cast iron balancing coils, valves, pumps, flow indicators, etc. it is suggested that all piping in these areas to be steel with dielectric unions or flanges when connecting to copper mains, and/or a copper header coil. Where copper pipes cross iron pipes and in all similar conditions where isolation is necessary to eliminate electrolysis, the pipe shall be isolated with a PVC sheathing.

Vent pipes through standard roof shall be installed with four pound lead flashing extending at least 12 inches from pipe and held securely to the pipe by turning over at least one inch above top of the pipe. Flashing of vent pipes through pre-engineered metal building roof shall be by the building manufacturer.

At hangers and supports of insulated pipe, provide high density insulation (maximum deflection 1/8 inches) and 12 inches long, 22 gauge galvanized sheet metal shields covering 50% of the circumference.

At hangers and supports of insulated pipe, provide high density insulation (maximum deflection 1/8 inches) and 12 inches long, 22 gauge galvanized sheet metal shields covering 50% of the circumference.

Sanitary piping shall be cleaned by flushing with water. Domestic water shall be flushed and chlorinated as required by AWWA C-601.

Solder used for connections in copper tubing shall be 95/5 tin antimony or 94/6 or 96/4 tin-silver solder with recommended flux.

Escutcheon plate for finished areas shall be chrome-plated escutcheon plates and for unfinished areas, black iron escutcheon plates are acceptable.

F. Roof Curbs and Supports:

Provide a roof curb for each roof mounted air intake hood, relief vent, exhaust vent, or ductwork passing through the roof. Verify curb size with equipment furnished. Curb shall be constructed to conform to the roof pitch and form a level top drainage. Curb shall be of box section design, 18 gauge galvanized steel with continuous welded corner seams and factory installed 1-1/2 x 1-1/2 wood nailer. Curb shall be insulated with 1-1/2 inches, three pound density rigid fiberglass board with internal metal liner. Equipment installed on curb shall be secured to curb.

In general, the top of the installed curb shall be approximately 12 inches above finished roof. Coordinate roof insulation thickness with General Contractor. Curbs for outside air intakes, or equipment with outside air intakes, shall be tall enough to maintain bottom of intake a minimum of 36 inches above finished roof.

Curb for built-up roofing system to be equivalent to a Pate Model PC-5, with raised cant.

For single ply membrane type roofing system, curb to be equivalent to a Pate Model PC-2 without cant.

Acceptable manufacturers are Pate Manufacturing Company, Custom Craft, Inc., Roof Products and Systems Corporation, Thybor, Vent Products or Shipman. When applicable, an equivalent roof curb for a particular fan by the fan manufacturer will be acceptable.

DIVISION 22 - PLUMBING

SECTION 22 0523 - GENERAL DUTY VALVES FOR PLUMBING PIPING

A. Manufacturers:

Gate, Globe and Check: Coffey, Crane, Walworth, Nibco, Stockham or Milwaukee

Lubricated Plug: Homestead or Flowserve Nordstrom

Ball: Smith, Crane, Apollo, Watts, Nibco or Milwaukee

B. Domestic Water:

Ball - 600 psi, screwed ends, bronze body, brass/S.S. Trim - Nibco T-585-80-LF, 2" and smaller.

Gate - 300 psi, screwed ends, bronze body and trim - Nibco T-113-LF, 2" and smaller.

Check - 200 psi, screwed ends, bronze body and trim - Nibco T-413-Y-LF, 2" and smaller.

C. Natural Gas Shutoff:

125 psi, screwed - semi-steel body - Nordstrom 142 or Ball Valve -screwed - bronze body - Teflon trim - Nibco T-585-70-UL and T-280-70-UL - 2" and smaller.

SECTION 22 0553 - Identification for Plumbing Piping and Equipment

A. Nameplates:

Provide Laminated three-layer plastic nameplate with engraved letters to identify plumbing equipment.

B. Valve Tags:

Provide a numbered brass tag, approximately 2 inch in diameter, chained to hand wheel of each valve, except local stop or shutoff valves to an item of equipment. Attach tag to valve with non-rusting "S" hook of adequate size. Each tag shall be stamped with a serial number and service designation of valve. Also indicate on tag whether the valve is normally-closed or normally-open in service (N.C. or N.O.).

Provide typed valve directions identifying each valve as to size, manufacturer, type, service and location. Copies shall be included in the Operation Instruction and Service Manual hereinafter specified.

C. Pipe Markers:

Provide Pipe Markers that are factory fabricated semi-rigid plastic, preformed to fit around pipe pipe covering; minimum information indicating flow direction arrow and identification of fluid being conveyed. Alternative material to be plastic tape pipe markers of flexible, vinyl film tape with pressure sensitive adhesive backing and printed markings. Color shall conform to ASME A13.1

SECTION 22 0700 - PLUMBING INSULATION

A. General:

All work shall be done by experienced insulation applicators in strict accordance with manufacturer's latest recommendations and shall be finished in a neat and workmanlike manner. Thermal conductivity shall not exceed 0.24 BTU/H per square foot F"/inch. Insulation shall be equivalent to Owens-Corning Fiberglass 25 ASL/SSL.

All insulation shall have a composite rating including insulation adhesives, jacket, etc. as follows. The composite assembly shall have a flame spread rating not over 25 and a smoke developed rating not higher than 50.

Pipe fittings shall be covered with preformed insulating fittings such as Zeston 25/50 rated PVC insulated fitting cover (pearl gray finish).

At hangers and supports of insulated pipe, provide high density insulation (maximum deflection 1/8 inches) and 12 inches long, 22 gauge galvanized sheet metal shields covering 50% of the circumference.

B. Piping:

Hot Services:

Domestic Hot Water Piping:
- 1-1/4 Inch and Smaller: 1 inch thick

All lavatories and sinks with exposed P-trap, hot and cold water angle stops and supplies shall be insulated with "TrueBoro" Handi-Lab-Guard insulation kit, Model #102W.

Cold Services:

Domestic Cold Water Piping and Valves:
- 1 1/4 Inch and Smaller: 1/2 inch

Condensate Drain Lines: 1/2 inch

SECTION 22 1116 - DOMESTIC WATER PIPING

A. Domestic Water Inside Building Aboveground:

Copper type "L" hard tempered 1/2 inch through 3 inches with soldered or press-fit joints and wrought copper fittings.

SECTION 22 1119 - DOMESTIC WATER PIPING SPECIALTIES

A. Wall Hydrant:

WH-1 - Woodford 65 freezeproof with vacuum breaker installed approximately 18 inches above grade.

Approved Manufacturers: Woodford, Zurn and Jay R. Smith

B. Backflow Preventers:

Reduced pressure type Watts LF909-S (½ inch thru 2 inches).

Approved Manufacturers: Watts, Wilkins, Conbraco, Febco

C. Thermometer:

Adjustable angle, 9 inches long; H. O. Terrice BX9 1403.

SECTION 22 1316 - SANITARY WASTE & VENT PIPING

A. Sanitary Waste and Vent Inside Building Underground:

Asphalt-coated service weight cast iron, hubless end, joints, "Clamp-All" Model #125, "Husky" 4000 or "Mission" Heavy Weight.

Plastic Piped, Schedule 40 ASTM D2665, DWV with standard welded socket joints.

B. Sanitary Waste and Vent Aboveground:

Asphalt-coated service weight cast iron, hubless end, joints, "Clamp-All" Model #125, "Husky" 4000 or "Mission" Heavy Weight.

Asphalt-coated service weight cast iron, hubless end, 3 inches and smaller. Joints, neoprene rubber gasket with stainless steel clamp.

C. Condensate Drain and Relief Valve Discharge:

Copper type "L" hard tempered with soldered or press-fit joints and wrought copper fittings.

SECTION 22 1319 - SANITARY WASTE PIPING SPECIALTIES

A. Floor Drains:

FD-1 - Zurn ZN-415-6B with 6 inches diameter strainer. Provide with ASSE 1072 compliant barrier-type trap seal protection device.

B. Cleanouts:

CO - Cleanout plug for cast iron hub and spigot shall be screwed brass.

CO - Cleanout plug for cast iron no hub shall be a blind plug.

CO - Cleanout plug for PVC shall be a cleanout adapter with cleanout plug.

FCO - Finished floor cleanout, Zurn ZN-1400-T.

FCO - Floor cleanout for carpeted area, Zurn ZN-1400-T-CM.

FCO - Floor cleanout for PVC pipe, Zurn ZN-1404.

WCO - Wall cleanout, Zurn ZS-1469.

Approved Manufacturers: Zurn, Josam, Milfab, Jay R. Smith and Wade.

SECTION 22 4000 - PLUMBING FIXTURES

A. General:

Fixtures shall be acid resisting and white.

Fixtures shall have supplies with stops with removable keys.

Mounting height of fixture shall be as shown on Architectural Drawing.

B. Water Closet, WC-1:

Kohler K-3493 (ADA, floor seat, pressure assist tank type - handle on left)

Supply: Brass Craft SCR-1912-DL-C
Seat: Olsomite 95-SSC

C. Lavatory, LV-1:

Faucet: Chicago Faucet 895-XKE72ABCP (0.5 gpm)
Supplies: Brass Craft SCR-1912-AC
Trap: Dearbom Brass 707-1
Strainer: Kohler K-7129-A
Drain and Supplies Insulation Kit: True Bro Model #102W
Temperature Control Valve (ASSE 1070): Powers Hydroguard LF480

D. Sink, SK-1:

Elkay LR-2219 (single compartment)

E. Sheet Metal Ductwork:

Shall be fabricated and installed in accordance with the latest ASHRAE and SMACNA recommendations and in the best practices of good workmanship.

All ductwork shall be constructed of prime hot dip galvanized sheet steel. All joints, longitudinal and transverse seams and connections shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric systems or tapes.

While the drawings are to be adhered to as closely as possible, the right is reserved to vary the run and sizes of ducts during the progress of the work as may be found necessary or desirable to avoid local interferences.

Openings around exposed or concealed ductwork passing through walls, or partitions, when not protected by fire dampers or doors properly installed, shall be sealed with a sheet metal collar on both sides of the wall.

DIVISION 23 - HVAC

SECTION 23 0700 - HVAC INSULATION

A. General:

All work shall be done by experienced insulation applicators in strict accordance with manufacturer's latest recommendations and shall be finished in a neat and workmanlike manner. Thermal conductivity shall not exceed 0.24 BTU/H per square foot F"/inch. Insulation shall be equivalent to Owens-Corning Fiberglass 25 ASL/SSL.

All insulation shall have a composite rating including insulation adhesives, jacket, etc. as follows. The composite assembly shall have a flame spread rating not over 25 and a smoke developed rating not higher than 50.

Pipe fittings shall be covered with preformed insulating fittings such as Zeston 25/50 rated PVC insulated fitting cover (pearl gray finish).

At hangers and supports of insulated pipe, provide high density insulation (maximum deflection 1/8 inches) and 12 inches long, 22 gauge galvanized sheet metal shields covering 50% of the circumference.

Refrigeration piping insulation material shall be a highly flexible, closed cell EPDM rubber based elastomeric product. Insulation shall be Aerocel SPST or AC, ArmoFlex UT/Solaflex or K Flex Solar HT. Thermal conductivity of the insulation shall not exceed 0.245 BTU/H square foot F degree/inch at 75° mean temperature. Insulation shall have a maximum 25/50 fire/smoke rating and be applied according to manufacturer's instructions. All joints must be sealed and the piping supported with inserts and galvanized exterior shields. Sizing per schedule.

B. Piping:

Cold Services:

Refrigerant Piping: 1 inch

Piping insulation exposed to weather shall have insulation thickness increased by 1 inch and be wrapped with a 0.016 inch thick aluminum cover.

C. Ductwork:

Externally insulate all outside air intake ductwork with 1-1/2 inches thick semi-rigid fiberglass insulation with foil reinforced Kraft vapor barrier equivalent to QCF 703-FRK.

Externally insulate all supply and return ductwork above ceilings and around runouts to diffusers with 1-1/2 inches thick flexible duct wrap with foil reinforced Kraft vapor barrier equivalent to QCF ED-100-FRK-25.

Internally insulated ducts in attics and equipment rooms shall also be externally insulated.

SECTION 23 0923 - TEMPERATURE CONTROLS

A. All electrical wiring to be in accordance with the National Electrical Code. The HVAC Contractor is responsible for all control and interlock wiring required for the complete installation that is not shown on the Electrical Drawings.

B. The HVAC Contractor is responsible for all power wiring for the complete control system. This shall include dedicated 120 volt, 20 amp circuit(s) for direct digital controls. All 120 volt circuits shall be from the nearest receptacle panel with the maximum load on any single circuit being 1400 watts.

C. All exposed temperature control and interlock wiring and all power wiring regardless of voltage, shall at a minimum be run in EMT. Conduit system in Mechanical and Electrical Rooms below eight feet above floor shall be IMC. See Electrical Division for additional conduit requirements. Concealed low voltage wiring such as communication wire, thermostat wire, etc. shall be plenum grade, fastened securely to building structure. See Electrical Specification for additional low voltage wiring requirements. Low voltage wiring shall not be laid directly on the ceiling or be attached to any other electrical conduits.

D. On completion of the job, the HVAC Contractor shall completely adjust, ready for use, all thermostats, valves, dampers, damper motors and relays provided under his Contract. The HVAC Contractor shall provide a complete instruction manual covering the installation and operation of all control components on the job. This manual shall be furnished to the Owner's operating personnel and a competent technician shall be provided for instruction and training in the use of the equipment substantially complete and ready for operation.

SECTION 23 2000 - HVAC PIPING

A. Refrigerant Piping:

Type ACR hard copper with streamline fittings and Alco or Sporlan specialties. Solder-by nitrogen shall be bled into lines while soldering. Extra care shall be taken to insure cleanliness. System shall be pressure and vacuum tested. A good refrigeration system such as Sil-Fast shall be used in making joints. Install purge, charging and service valves as per manufacturer's recommendations and standards. Refrigeration piping shall in all cases conform to the air conditioning equipment manufacturer's recommendations and standards. Pre-charge refrigerant piping may be used if systems are 5 tons or less and length of piping is 50 feet or less. After start-up, replace liquid line filter driers, if necessary.

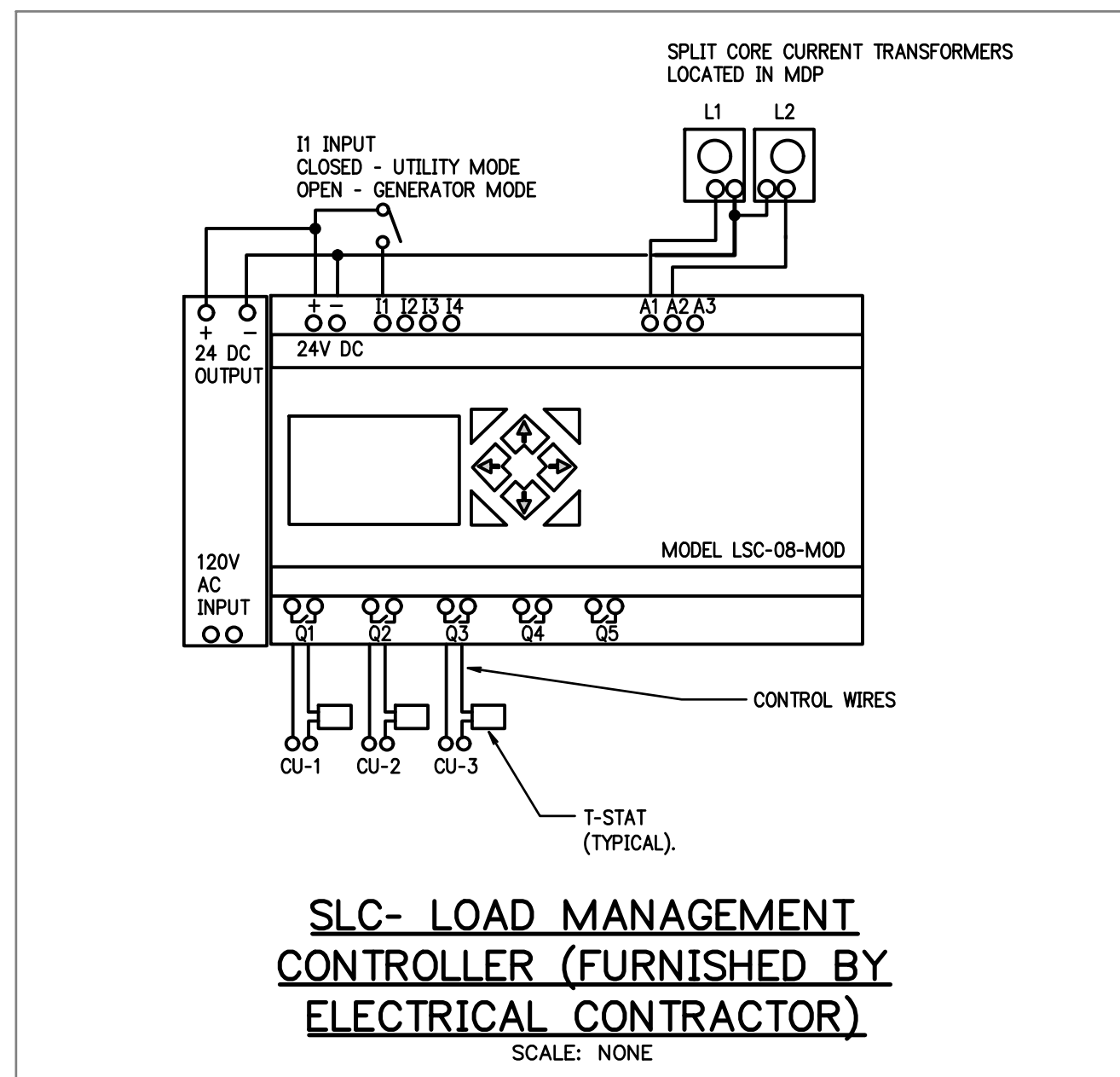
SECTION 23 3000 - AIR DISTRIBUTION SYSTEM

A. Sheet Metal Ductwork:

Shall be fabricated and installed in accordance with the latest ASHRAE and SMACNA recommendations and in the best practices of good workmanship. All ductwork shall be constructed of prime hot dip galvanized sheet steel. All joints, longitudinal and transverse seams and connections shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric systems or tapes.

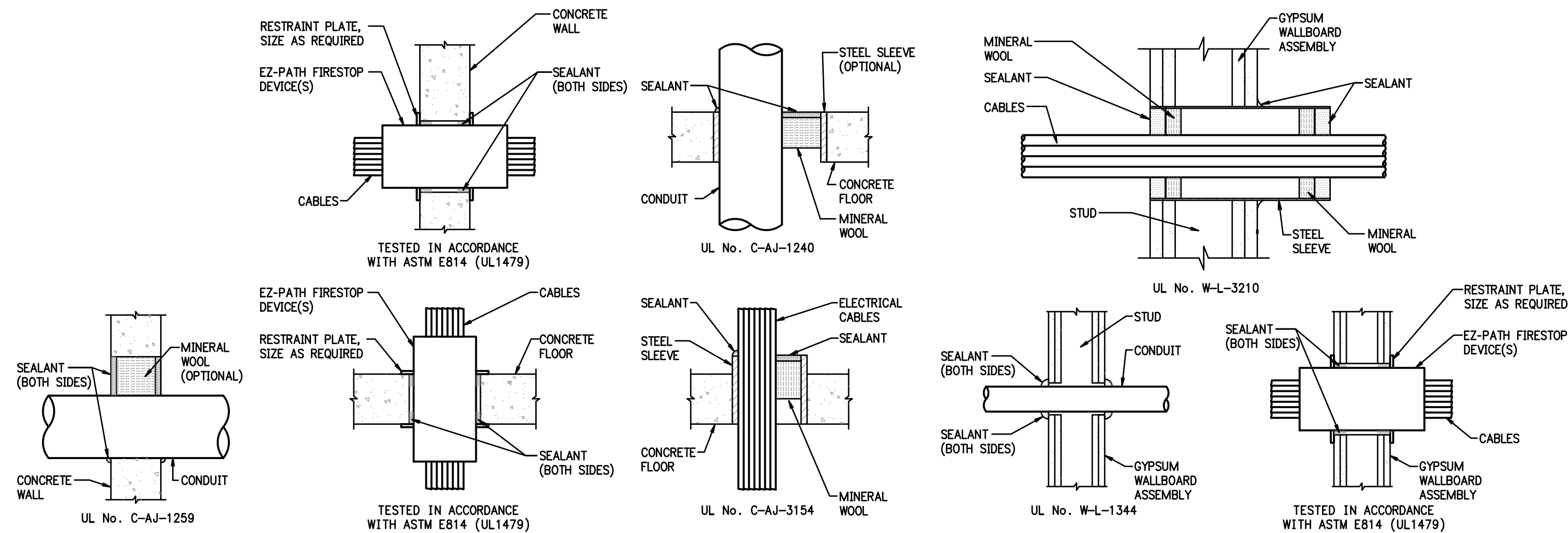
While the drawings are to be adhered to as closely as possible, the right is reserved to vary the run and sizes of ducts during the progress of the work as may be found necessary or desirable to avoid local interferences.

Openings around exposed or concealed ductwork passing through walls, or partitions, when not protected by fire dampers or doors properly installed, shall be sealed with a sheet metal collar on both sides of the wall.



WIRE SIZING TABLE		
FOR 120V-20A BRANCH CIRCUITS ONLY, UNLESS OTHERWISE NOTED		
IF DISTANCE A+B IN FEET IS: (SEE DIAGRAM AT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY:	
0' to 100'	#12 (MIN.)	
100' to 175'	#10	
175' to 300'	#8	
300' to 450'	#6 (MAX.)	

THESE TABLES ARE BASED ON AN EVENLY DISTRIBUTED LOAD ALLOWING A 3% VOLTAGE DROP AT LAST OUTLET; APPLY ACCORDINGLY.
















NOTES:

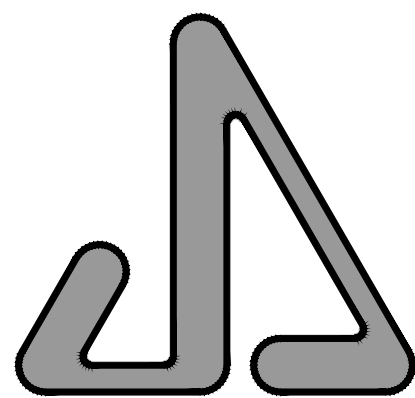
1. CABLE AND CONDUENT PENETRATION DETAILS ARE BASED ON A UL LISTED 2 HOUR FIRE RATED ASSEMBLY (MINIMUM) UTILIZING STI FIRESTOP PRODUCTS. MANUFACTURERS SHALL BE STI, HILTI, 3M OR APPROVED EQUAL. REFER TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION DETAILS FOR EXACT INSTALLATION METHODS.
2. PACKING AND SEALANT DEPTHS SHALL BE PER MANUFACTURER'S SPECIFICATIONS FOR UL ASSEMBLY RATING COMPLIANCE.
3. ALL FIRESTOP LOCATIONS SHALL BE LABELED AT POINT OF PENETRATION LABEL SHALL IDENTIFY FIRE STOPPING MATERIAL, U.L. LISTING NUMBER AND HOUR RATING OF WALL/FLOOR.

CONDUIT/CABLE PENETRATIONS THROUGH RATED ASSEMBLIES

SCALE: NONE

L U M I N A I R E S C H E D U L E		
	18W LED, 1260 LUMENS, 3000K, 80 CRI, RECESSED DOWN LIGHT, 12" DIA., 120V, WITH RETROFIT KIT AS NEEDED, WET LOCATION	LITHONIA OR EQUAL BY COOPER OR DAYBRIGHT
	LED 15 WATT, 1000 LUMENS, 3000K, 80 CRI, RECESSED DOWN LIGHT, 8" DIA., 120V, WITH RETROFIT KIT AS NEEDED, WET LOCATION RATED	LITHONIA OR EQUAL BY COOPER OR DAYBRIGHT
	LED 48" 38 WATT 3000 LUMENS 120V SURFACE MOUNTED FROSTED LENS 4000K	LITHONIA CSS L48 3000LM MVOLT 40K 80CRI EQUAL BY COOPER OR DAYBRIGHT
	LED 48" 38 WATT 3000 LUMENS 120V WRAP AROUND LENS 4000K	LITHONIA LBL 3000LM MVOLT 40K 80CRI EQUAL BY COOPER OR DAYBRIGHT
	LED EMERGENCY LIGHT, 2 HEAD WITH 90 MINUTE BATTERY BACKUP, WITH SELF TEST 120V	ISOLITE BUG-3W-WH-MB-SD OR EQUAL BY LITHONIA OR COOPER
	LED HIGH OUTPUT EXIT/EMERGENCY COMBINATION LIGHT, 2 HEAD WITH 90 MINUTE BATTERY BACKUP WITH SELF TEST, 120V	ECONO LITE C-EE-B-EX-2LDF-R-BB-BB-8T OR EQUAL BY LITHONIA OR COOPER
	LED PREMIUM DIE CAST ARCHITECTURAL EMERGENCY LIGHT WITH WITH BUILT IN PHOTOCCELL, SELF DIAGNOSTICS, 21 WATTS 635 LUMENS 4000K COLD WEATHER OPTION, COLOR TO BE BLACK	LITHONIA AFF-DNAX-UVOLT-LTP-SDRF-FACT-CW-BAA
	LED ARCHITECTURAL WALL SCONCE, 71 WATT 10146 LUMENS 120 VOLT-BLACK	LITHONIA WDGE3 LED-P1-40K-70CRI-RFT-MVOLT-SRM-BLACK
	32W LED, 4000 LUMENS, 3500K CRI, 2'x2' LAY-IN, 0-10V DIM, 120V,	LITHONIA 2BLT2 40L ADM EZ1 LP835
	SAME AS 'L1' BUT WIRED AS NIGHT LIGHT, UNSWITCHED	
	LED ROPE LIGHT, OUTDOOR RATED 120V 300LM/FOOT 6WATTS/FOOT MAX. 4000 KELVIN	NANOFLEX OR EQUAL BY TIVOLI
	LED TEARDROP LUMINAIRE 73 WATT 4K 70 CRI WITH ROUND TAPERED STEEL DAVIT SINGLE ARM POLE WITH 25 FEET MOUNTING HEIGHT, POLE WITH THREADED NIPPLE FOR FUTURE CAMARA AT 13 FEET ABOVE BASE PLATE. SEE CONCRETE POLE BASE ON SHEET E-4.	NO SUBSTITUTIONS FOR THE SITE LIGHTING LUMINAIRE TO BE HOLOPHANE MODEL ESLS-P20S-40K-TG3-HSS120-BLACK POLE TO BE LITHONIA RTS07-88-DV16-DBLXD-NPL113-MOD BLACK
	LED, GREEN OPEN- RED CLOSE SIGN, 120V, LED REFLECTED, BACKLIT ILLUMINATION WITH BLOCK LETTER STYLE MESSAGE FACE, READABLE IN DIREC SUNLIGHT. CORROSION RESISTANT, EXTRUDED ALUMINUM WALL MOUNTED DURANODIC BRONZE COLOR, CONTROLLED BY LIGHT SWITCH, (7 INCH HEIGHT X 34 INCH WIDTH X 2.5 DEPTH)	DIRECTIONAL SYSTEMS (25883) PHX734GR-100/120-277VAC
NL	INDICATES NIGHT LIGHT, CONNECTED TO UNSWITCHED CIRCUIT FOR LUMINAIRE	
AFF	ABOVE FINISHED FLOOR	
MH	MOUNTING HEIGHT	

	L E G E N D
L . D .	LOCATE AS DIRECTED
W . P .	ITEM TO BE WEATHERPROOF
	PANELBOARD 120/240V SINGLE PHASE 3 WIRE, SIZE AND RATING AS NOTED
	DOUBLE DUPLEX RECEPTACLE, TAMPER RESISTANT 20 AMP 120V, 2-GANG, 4-OPENING, WHITE DEVICE WITH STAINLESS PLATE
	DUPLEX RECEPTACLE, TAMPER RESISTANT 20 AMP, 120V, WHITE DEVICE WITH STAINLESS PLATE
	DUPLEX RECEPTACLE TAMPER RESISTANT 20 AMP, 120V WITH GFCI, WHITE WITH STAINLESS PLATE
	AUTOMATIC DOOR OPERATOR, 120V
	ADA PUSH PADS, PROVIDE WIRING FROM PUSH PAD TO AUTOMATIC DOOR OPERATOR
Dv	WALL VACANCY DIMMER SENSOR, NLIGHT nPODM SERIES OR EQUAL, SEE DETAIL ON SHEET E-4.
	OCCUPANCY SENSOR, CEILING MOUNTED, NLIGHT NCM SERIES OR EQUAL, SEE DETAIL ON SHEET E-4.
	POWER PACK FOR OCCUPANCY SENSOR, NLIGHT NPPI6 SERIES OR EQUAL, SEE DETAIL ON SHEET E-4
Dr	DIMMER SETTABLE TIMER, NLIGHT nDTC, WHITE
	BUSSMAN SSU SWITCH WITH 120V 15 AMP FUSE
	HEAVY DUTY SAFETY SWITCH, SIZE AS NOTED, FUSED, NEMA 3R
	INGROUND JUNCTION BOX, SEE DETAIL ON SHEET E-2.
	ACCESS DOOR INSULATED GASKETED, Watertight, 24"x24", WILLIAMS BROTHERS WB-EXT 1350 ULTRA 24X24, PROVIDE ADDITIONAL NON COMBUSTIBLE BLOCKING AS NEEDED TO SUPPORT ACCESS DOOR
	AUTOMATIC TRANSFER SWITCH, SIZE AND RATING AS NOTED ON PANEL RISER
	LOAD MANAGEMENT CONTROLLER, PSP PRODUCTS MODEL LSC-08-MOD, SEE DETAIL ON THIS SHEET
	LOAD MANAGEMENT SPLIT CORE CT, 400 AMP RATED, PSP PRODUCTS MODEL CT135-SPLITS500
	SEVEN-DAY TIME SWITCH, PHOTOCELL INITIATED; PARAGON EC7000
	PHOTOCELL MOUNTED ON ROOF FACING NORTH; PRECISION ST-15
	LIGHTING CONTACTOR, 20 AMP 6 POLE, WITH HANDS-OFF-AUTO, PILOT LIGHT 120V COIL, NEMA 1 ENCLOSURE ELECTRICALLY HELD
	SURGE PROTECTION DEVICE 120/240V, GE TR7-120S-WMN-200-1ID, OR APPROVED EQUAL BY SCHNIEDER, APC, Eaton
	GENERATOR ANNUNCIATOR PANEL, FLUSH MOUNTED
	GENERATOR, 90KW NATURAL GAS 120/240V SINGLE PHASE 3 WIRE, OHIO CAT MODEL G80PGABR TIER2 CATERPILLAR IS BASIS OF DESIGN, ANY SUBSTITUTION WILL NEED TO BE PROVIDED WITH NEW GAS PIPING CALCULATIONS. ANY CHANGES IN GAS PIPING WILL BE THE EXPENSE OF THE CONTRACTOR
	GENERATOR E-STOP, NEMA 3R
	STORM SWITCH, SIZE AND RATING AS NOTED ON PANEL RISER
S	WALL SWITCHES: SINGLE POLE, 120V 20 AMP, WHITE DEVICE WITH STAINLESS PLATE
	WALL SENSOR, SENSOR SWITCH WSX SERIES OR EQUAL, WHITE DEVICE WITH STAINLESS PLATE
	WALL SWITCH, 3 WAY WITH PILOT LIGHT OR LIGHTED HANDLE, 120V, WHITE DEVICE WITH STAINLESS PLATE
	30 AMP TOGGLE SWITCH WITH HANDLE LOCK, NEMA 1 ENCLOSURE, BRYANT 301030 OR EQUAL
	ELECTRIC WALL HEATER, 2000 WATT, 240V, SURFACE MOUNTED WITH SURFACE BOX, THERMOSTAT, BUILT IN DISCONNECT MARLEY MODEL # FRA4024F-SMFL
	CT CABINET, EXISTING TO REMAIN
	UTILITY POLE EXISTING TO REMAIN
▼	SEE SHEET E-7 FOR SYSTEM ROUGH IN REQUIREMENTS
	PUSH PAD PEDESTAL, SEE SHEET E-8



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CREDIT UNION
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MONROE MI 48161

PROPERTY OWNER CONTACT:
KRISTINE BRENNER, CEO
715 TELEGRAPH ROAD
MONROE MI 48162
734-384-2705
kbrenner@monroecommunitycu.com

ELECTRICAL LEGEND AND DETAILS

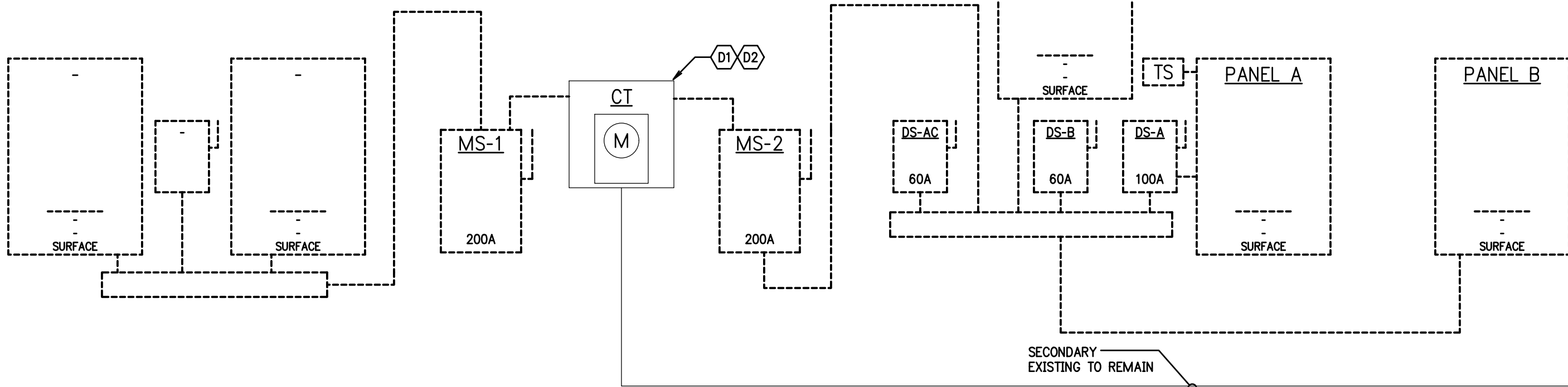


Call or submit 48 hours
before you dig.

202543

E-0

FEEDER SCHEDULE							
MARK	1 PHASE - 2 WIRE WITH GROUND	MARK	1 PHASE OR 3 PHASE - 3 WIRE WITH GROUND		MARK	3 PHASE - 4 WIRE WITH GROUND	
	COPPER			COPPER		COMPACT ALUMINUM	
(20SD)	2#12, 1#12G - 1/2" C	(20D)	3#12, 1#12G - 1/2" C		(20NG)	4#12, 1#12G - 1/2" C	
(30SD)	2#10, 1#10G - 1/2" C	(30D)	3#10, 1#10G - 1/2" C		(30NG)	4#10, 1#10G - 3/4" C	
(50SD)	2#8, 1#10G - 1" C	(50D)	3#8, 1#10G - 1" C		(50NG)	4#8, 1#10G - 1" C	
(60SD)	2#6, 1#10G - 1" C	(60D)	3#6, 1#10G - 1" C		(60NG)	4#6, 1#10G - 1-1/4" C	
(80SD)	2#4, 1#8G - 1" C	(80D)	3#4, 1#8G - 1" C		(80NG)	4#4, 1#8G - 1-1/4" C	
(100SD)	2#2, 1#8G - 1-1/4" C	(100D)	3#2, 1#8G - 1-1/4" C	3#1, 1#6G - 1-1/4" C	(100NG)	4#2, 1#8G - 1-1/4" C	4#1, 1#6G - 1-1/2" C
		(12SD)	3#1, 1#6G - 1-1/4" C	3#2/0, 1#4G - 1-1/2" C	(12NG)	4#1, 1#6G - 1-1/2" C	4#2/0, 1#4G - 2" C
		(15SD)	3#1/0, 1#6G - 1-1/2" C	3#3/0, 1#4G - 2" C	(15NG)	4#1/0, 1#6G - 1-1/2" C	4#3/0, 1#4G - 2" C
		(17SD)	3#2/0, 1#6G - 1-1/2" C	3#4/0, 1#4G - 2" C	(17NG)	4#2/0, 1#6G - 2" C	4#4/0, 1#4G - 2" C
		(20SD)	3#3/0, 1#6G - 2" C	3#250kcmil, 1#4G - 2-1/2" C	(20NG)	4#3/0, 1#6G - 2" C	4#250kcmil, 1#4G - 2-1/2" C
		(22SD)	3#4/0, 1#4G - 2" C	3#300kcmil, 1#2G - 2-1/2" C	(22NG)	4#4/0, 1#4G - 2-1/2" C	4#300kcmil, 1#2G - 2-1/2" C
		(25SD)	3#250kcmil, 1#4G - 2-1/2" C	3#350kcmil, 1#2G - 2-1/2" C	(25NG)	4#250kcmil, 1#4G - 2-1/2" C	4#350kcmil, 1#2G - 3" C
		(30SD)	3#350kcmil, 1#4G - 2-1/2" C	3#500kcmil, 1#2G - 3" C	(30NG)	4#350kcmil, 1#4G - 3" C	4#500kcmil, 1#2G - 3" C
		(40SD)	3#500kcmil, 1#2G - 3" C	2(3#250kcmil, 1#1G - 2-1/2" C)	(40NG)	4#500kcmil, 1#2G - 3-1/2" C	2(4#250kcmil, 1#1G - 2-1/2" C)
		(F40SD)	3#600kcmil, 1#2G - 3-1/2" C	2(3#250kcmil, 1#1G - 2-1/2" C)	(F40NG)	4#600kcmil, 1#2G - 3-1/2" C	2(4#250kcmil, 1#1G - 2-1/2" C)



PANEL RISER - DEMOLITION

SCALE: 1"=8'-0"

PANEL RISER DEMOLITION NOTES:

- D1. CONTRACTOR TO COORDINATE AND SCHEDULE ALL WORK WITH DTE.
- D2. DEMOLITION AND REMOVAL OF EXISTING MAIN DISCONNECTION SWITCHES SHALL BE IN PHASES. THE BUILDING POWER WILL REMAIN CONNECTED THROUGH OUT DURATION OF CONSTRUCTION. MULTIPLE MOBILIATIONS ARE REQUIRED TO REWORK EXISTING SERVICE.

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Plotted by: Bill Link

Plot Date: 3/5/2026 2:11 PM

Save Date: 3/5/2026 2:05 PM

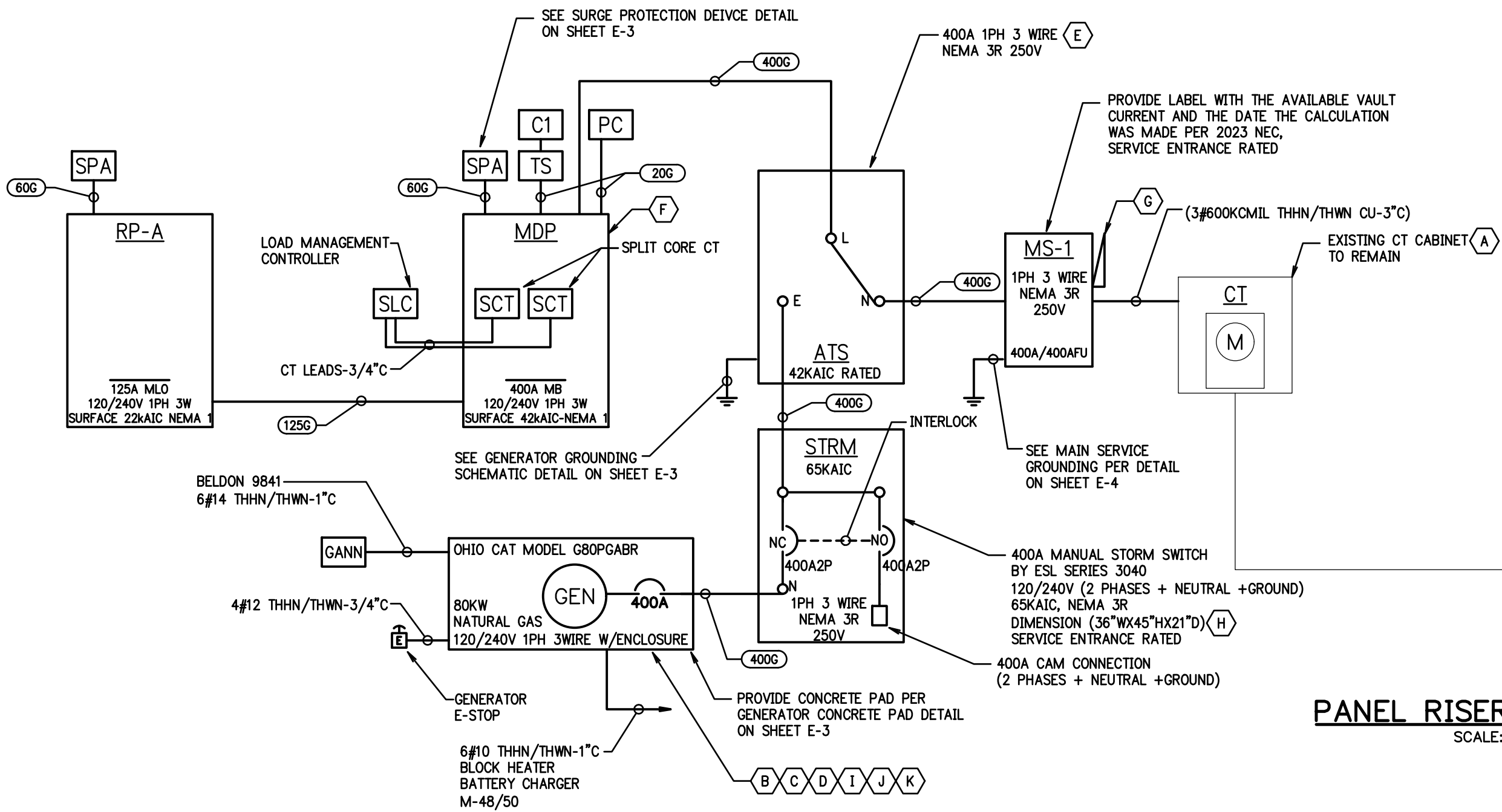
File Name: JD25121-E-01.DWG

MDP (NEW)											
400 A M.B. 42KAIC FULLY RATED				VOLTAGE: 120/240V-1PH-3W				SURFACE			
USE	LOAD	BKR AMP	BKR No	PH	BKR No	BKR AMP	LOAD	USE	LOAD	BKR AMP	BKR No
AUTOMATIC DOOR, VESTIBULE	560	20	1	A	2	20	720	OFFICE RECEIPT			
SPARE		20	3	B	4	20	540	OFFICE RECEIPT			
ELECTRIC WATER HEATER	2,500	30	5	A	6	20	540	OFFICE RECEIPT			
ELECTRIC WATER HEATER	2,500	2P	7	B	8	20	720	OFFICE RECEIPT			
SPARE		40	9	A	10	20	720	MANAGERS OFFICE RECEIPT			
SPARE		2P	11	B	12	20	900	BREAK ROOM RECEIPTS			
CU Receptacle	180	20	13	A	14	20	1,250	REFRIGERATOR/WATER COOLER			
SPARE		20	15	B	16	20	1,500	MICROWAVE BREAK ROOM			
SPARE		20	17	A	18	20	540	BREAK ROOM COUNTER			
SPARE		20	19	B	20	20	1,320	RESTROOM LIGHTS/MECH RM LGTS/EF			
COPIER	800	20	21	A	22	20	720	RESTROOM RECEIPTS			
BREAKROOM TV, CASHIER TV	1,400	20	23	B	24	20	360	RECEIPT SOUTH TELLER AREA			
MECHANICAL ROOM Receptacle	360	20	25	A	26	20	360	TELLER 2			
DATA CABINET 120V	1,500	20	27	B	28	20	360	TELLER 3			
DATA CABINET 120V	1,500	20	29	A	30	20		SPARE			
ACE SECURITY PANEL	1,500	20	31	B	32	20	760	MONEY COUNTER 1			
INT PANEL	1,500	20	33	A	34	20	760	MONEY COUNTER 2			
DATA ROOM RECEIPT	360	20	35	B	36	20	1,040	TELLER / LOBBY LIGHTS			
ITM DRIVE THRU	1,080	30	37	A	38	20	1,260	COUNTER WORK STATION			
ITM DRIVE THRU	1,080	30	39	B	40	20	1,260	STORAGE/COUNTING RECEIPT			
ITM DRIVE THRU	1,080	30	41	A	42	20	1,440	BACK OF TELLER/VAULT ROOM RECEIPTS			
DRIVE THRU CANOPY LIGHTS	250	20	43	B	44	20	1,080	OFFICE LIGHTS/BREAK ROOM/COUNTING			
WALL PADKS	600	20	45	A	46	20	760	SIGN EXTERIOR LOGO			
PARKING LOT POLE LIGHTS	1,250	30	47	B	48	20	760	GENERATOR BATTERY			
EXTERIOR RECEPTACLES	540	20	49	A	50	20	1,500	GENERATOR BLOCK HEATER			
SPA - SURGE PROTECTION		60	51	B	52	125	10,300	PANEL RP-A			
SPA - SURGE PROTECTION		2P	53	A	54	2P	9,460	PANEL RP-A			
TOTAL CONNECTED LOAD:		61,470 W		256 AMPS		2026-03-05					

RP-A (NEW)											
125 AMP M.L.O. 22KAIC				VOLTAGE: 120/240V-1PH-3W				SURFACE			
USE	LOAD	BKR AMP	BKR No	PH	BKR No	BKR AMP	LOAD	USE	LOAD	BKR AMP	BKR No
CU-1	2,040	30	1	A	2			space			
CU-1	2,040	2P	3	B	4			space			
CU-2	2,040	30	5	A	6	20	1,250	WALL HEATER , VAULT			
CU-2	2,040	2P	7	B	8	2P	1,250	WALL HEATER, VAULT			
CU-3	2,040	30	9	A	10	20	840	FURNACE #1/PUMP			
CU-3	2,040	2P	11	B	12	20	840	FURNACE #2/PUMP			
DSU-1	1,250	30	13	A	14	20	840	FURNACE #3/PUMP			
DSU-1	1,250	2P	15	B	16	30		SPARE			
SPARE		20	17	A	18	2P		SPARE			
SPARE		20	19	B	20	20		SPARE			
SPARE		20	21	A	22	20		SPARE			
SPARE		20	23	B	24	20		SPARE			
SPARE		20	25	A	26	20		SPARE			
SPA - SURGE PROTECTION		60	27	B	28	20		SPARE			
SPA - SURGE PROTECTION		2P	29	A	30	20		SPARE			
TOTAL CONNECTED LOAD:		19,780 W		82 AMPS		2026-03-05					

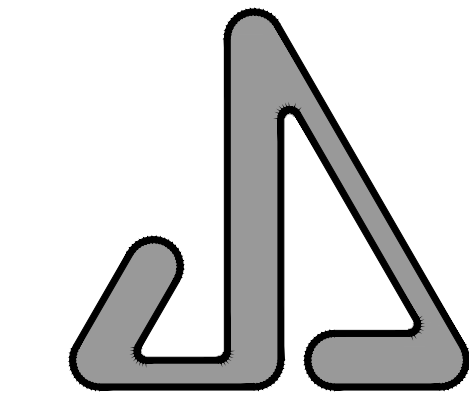
PANEL RISER NEW WORK NOTES:

- A. CONTRACTOR TO COORDINATE AND SCHEDULE ALL WORK WITH DETROIT DTE ENERGY.
- B. PROVIDE STANDBY NATURAL GAS GENERATOR. INCLUDE ALL COST FOR CRANE AND RIGGING TO UNLOAD GENERATOR AND SET IN PLACE ON NEW CONCRETE PAD.
- C. PROVIDE CONCRETE PAD FOR GENERATOR.
- D. PROVIDE ALL GAS PIPING, GAS METER, REGULATOR UPGRADE AND FINAL NATURAL GAS CONNECTION TO GENERATOR. COORDINATE ALL WORK WITH GAS UTILITY COMPANY.
- E. PROVIDE SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH.
- F. PROVIDE MDP PANEL WITH SURGE PROTECTION.
- G. PROVIDE MAIN DISCONNECT, MS-1 WITH FUSES.
- H. PROVIDE STORM SWITCH.
- I. CONTRACTOR TO INCLUDE ALL COST FOR 4 HOUR LOAD BANK TEST, COMMISSIONING AND 2 HOUR TRAINING BY FACTORY AUTHORIZED GENERATOR REPRESENTATIVE. TRAINING AND LOAD BANK TEST TO BE ON SEPARATE DAYS.
- J. CONTRACTOR TO INCLUDE COST FOR 4 HOUR LOAD SHEDDING SESSION WITH A FACTORY AUTHORIZED GENERATOR REPRESENTATIVE. GENERATOR REPRESENTATIVE SHALL OPERATE GENERATOR TO CONFIRM ALL LOAD SHEDDING SETTINGS ARE FUNCTIONAL. CONTRACTOR SHALL NOTIFY JDRM ENGINEERING TO WITNESS TEST ALL LOAD SHEDDING OPERATIONS.
- K. BASIS OF DESIGN IS CATERPILLAR GENERATOR. IF CONTRACTOR MUST SUBMIT GAS PIPING CALCULATION IF SUBSTITUTION IS USED FOR GENERATOR. ALL COST FOR REVISED GAS PIPING WILL BE THE CONTRACTOR RESPONSIBILITY.



PANEL RISER - NEW WORK

SCALE: 1"=8'-0"



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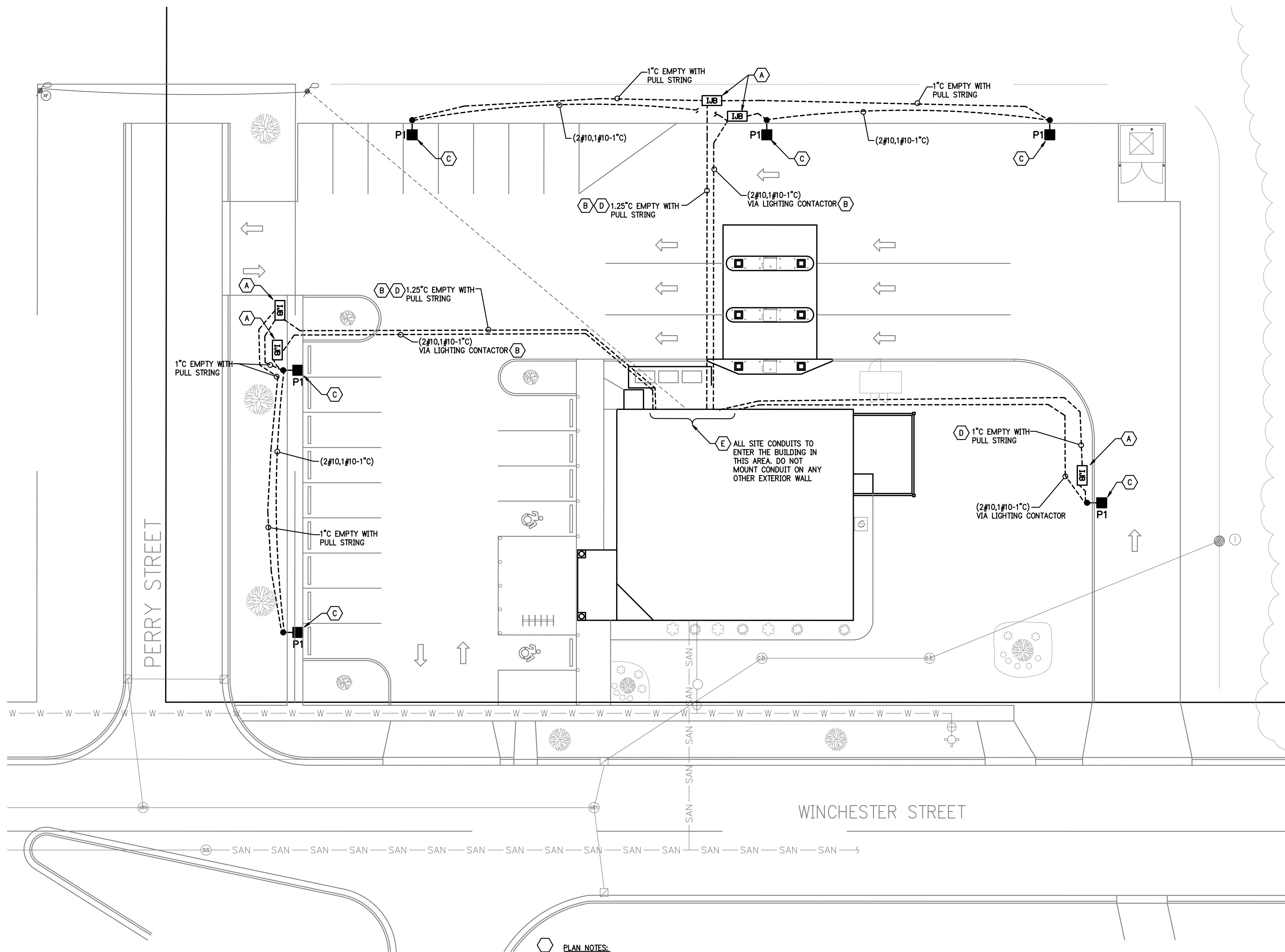
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PANEL RISER
ELECTRICAL

03-06-26	BIDS
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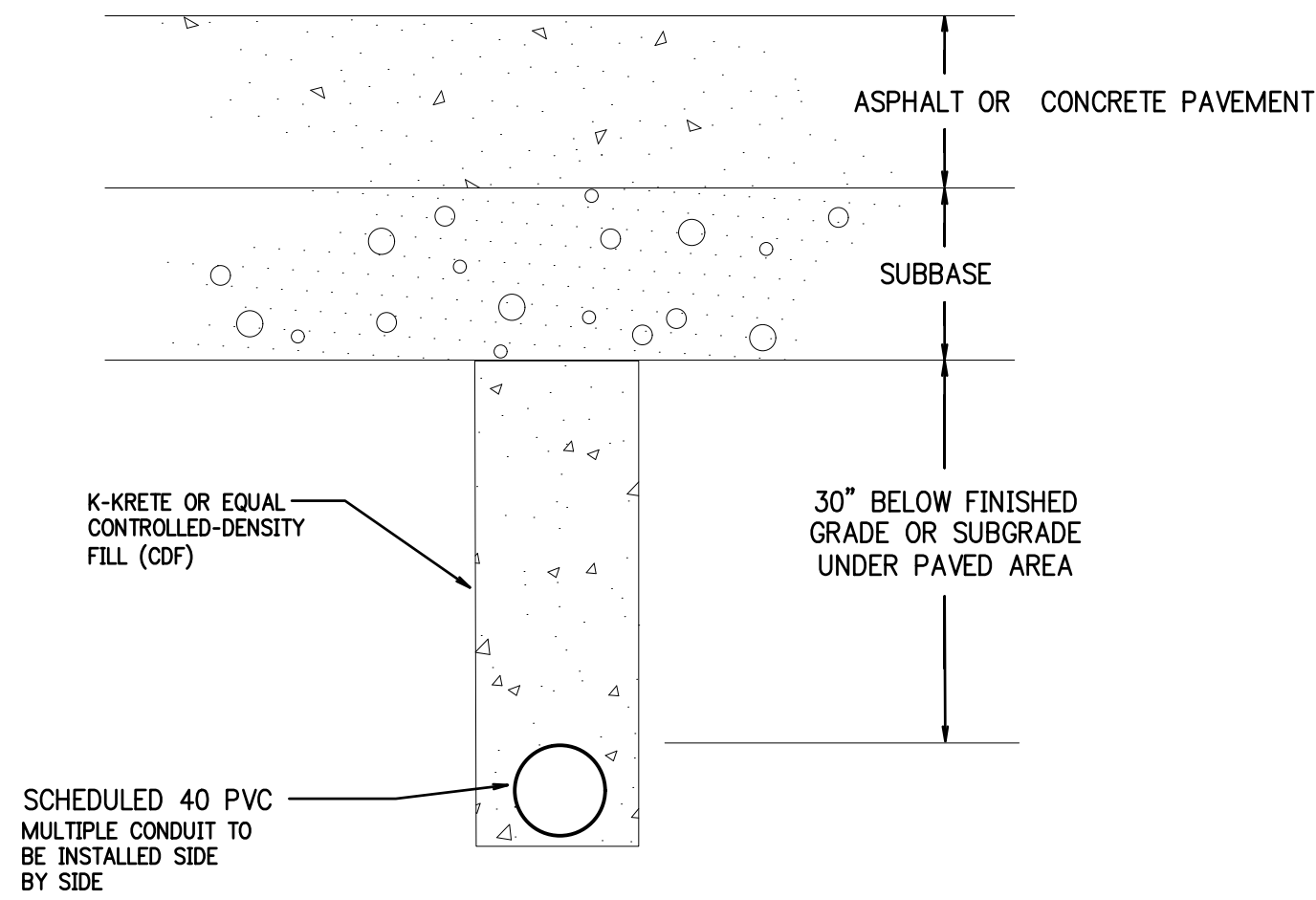
E-1



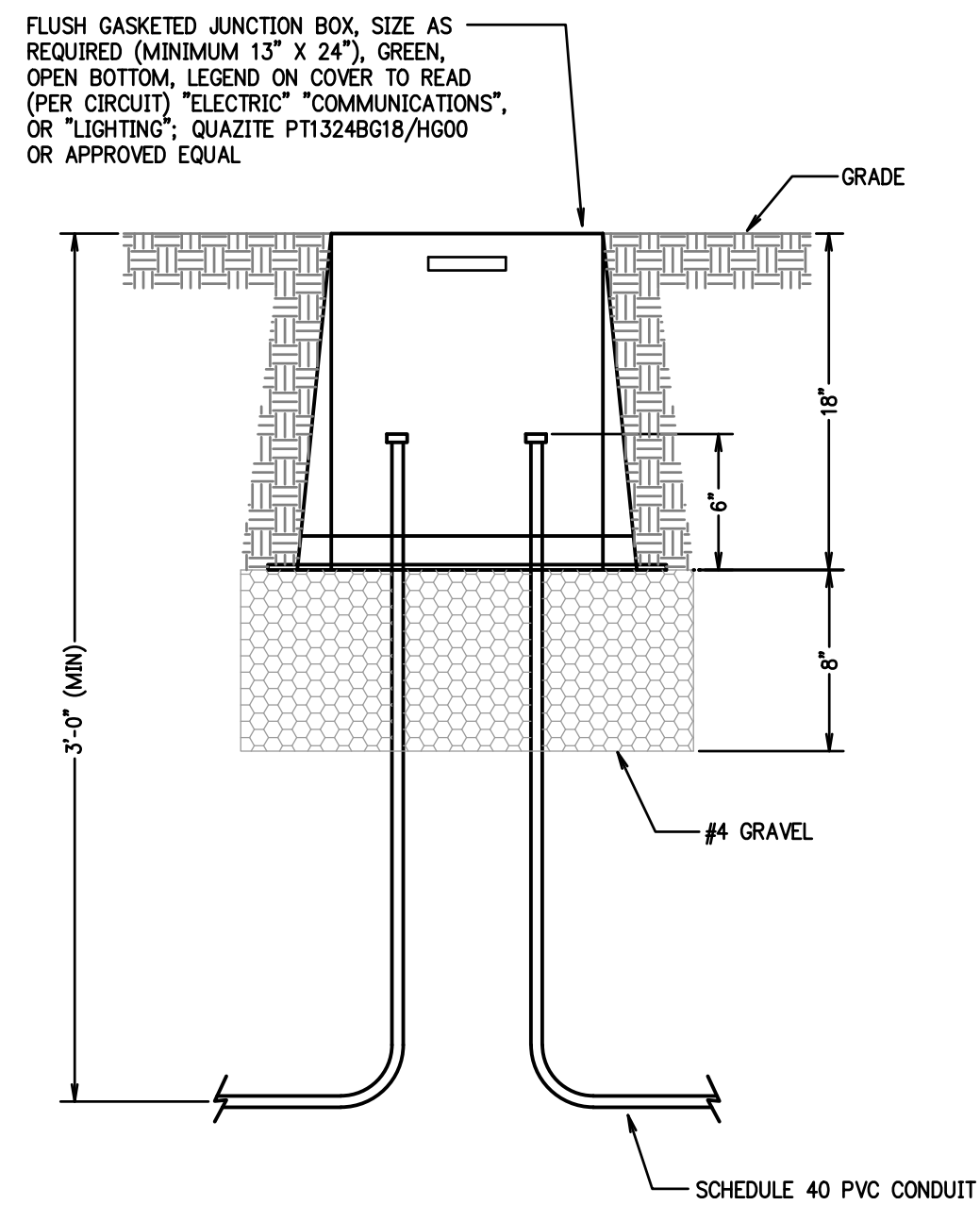
PLAN NOTES:

- A. PROVIDE IN-GROUND JUNCTION BOX PER DETAIL ON THIS SHEET.
- B. PROVIDE UNDERGROUND CONDUIT PER DETAIL ON THIS SHEET.
- C. PROVIDE CONCRETE POLE BASE PER DETAIL ON SHEET E-4
- D. INSTALL CONDUIT UP TO SNAKE TRAY ABOVE LAYIN CEILING.
- E. ALL CONDUIT PENETRATIONS OF EXTERIOR WALL SHALL BE CORE DRILLED WITH LINK SEAL KITS TO PROVIDE A WATER TIGHT PENETRATION.

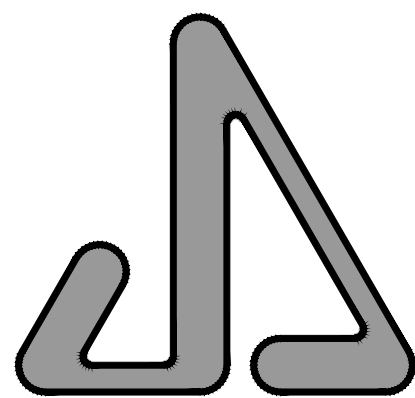
SITE LIGHTING PLAN - ELECTRICAL
SCALE: 1/16"=1'-0"



UNDER PAVEMENT CONDUIT DETAIL
SCALE: NONE



IN GROUND JUNCTION BOX DETAIL
SCALE: NONE



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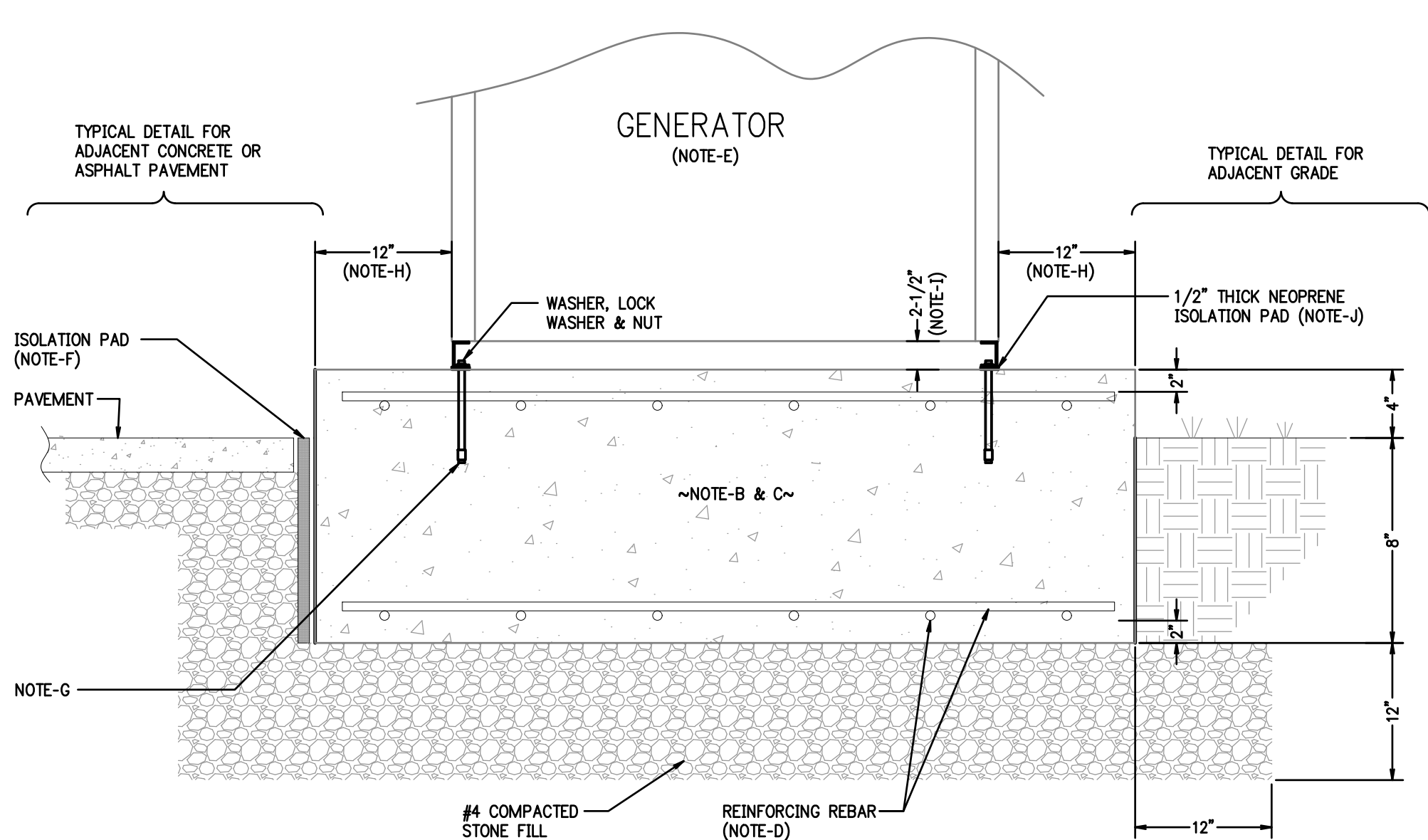
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SITE PLAN
NEW WORK
ELECTRICAL

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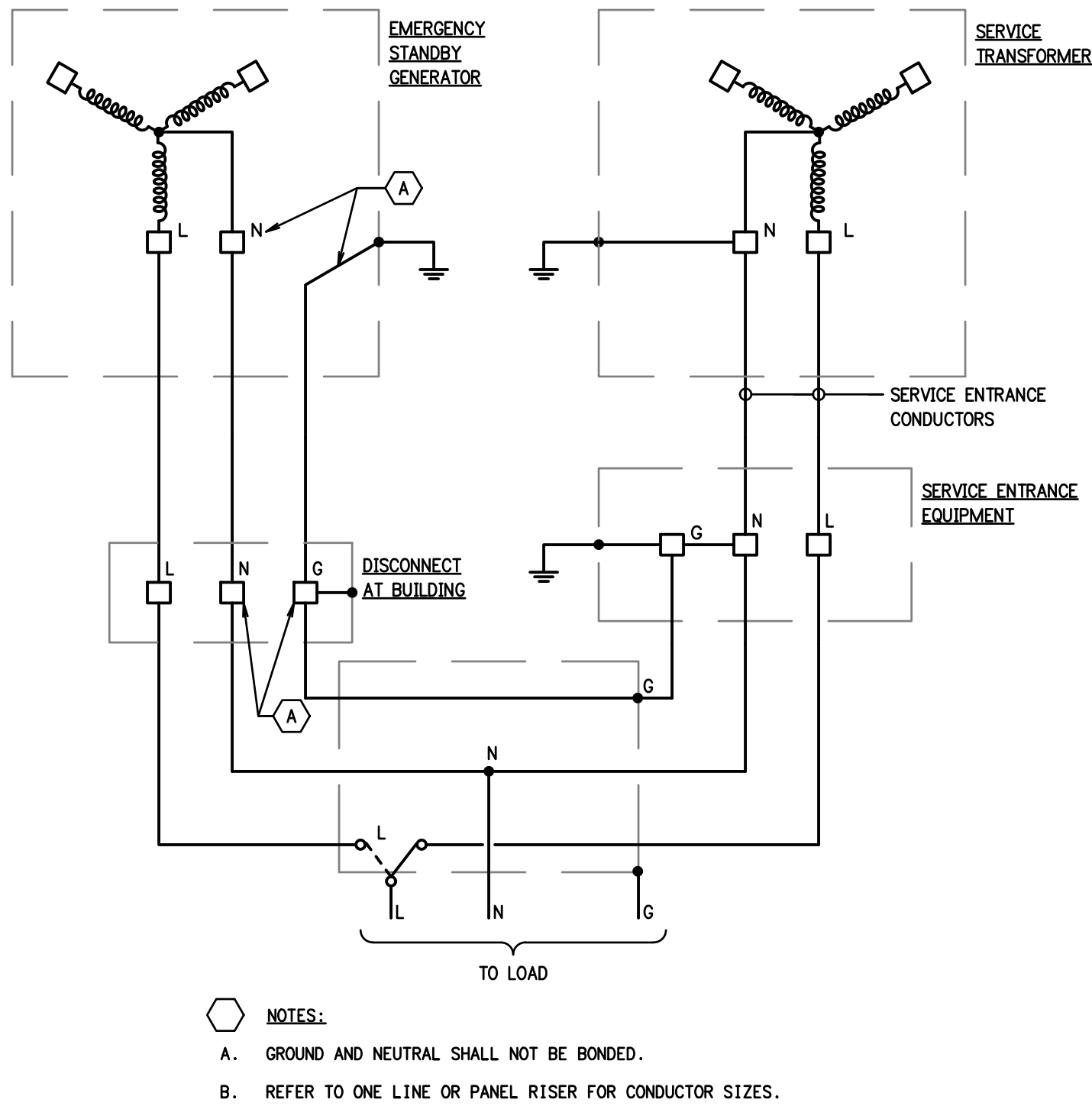
E-2



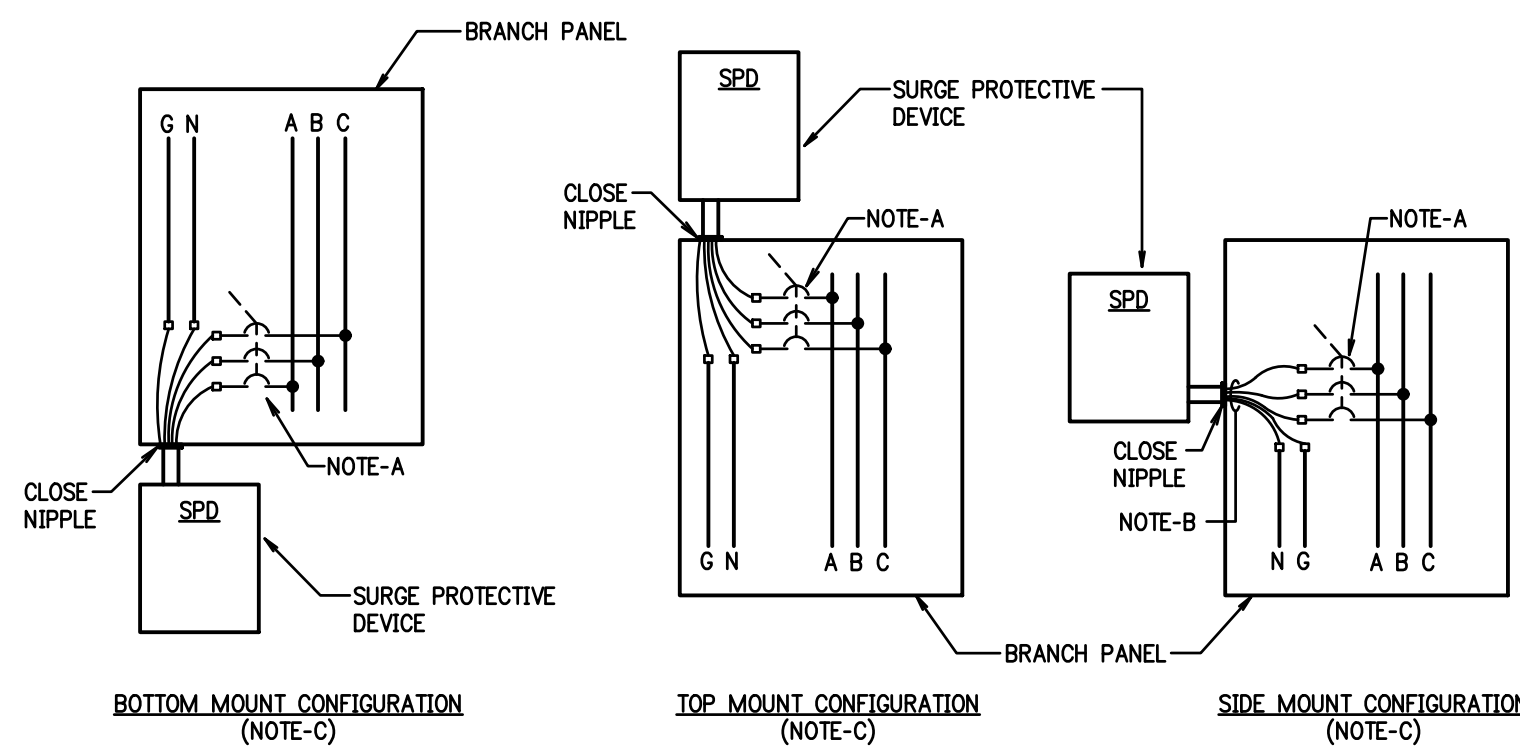
GENERATOR PAD NOTES:

- PROVIDE OPENINGS FOR CONDUIT STUB-UPS. DO NOT POUR CONCRETE AROUND CONDUITS.
- CONCRETE TO BE 3000 PSI STRENGTH BY 7 DAYS. USE PORTLAND CEMENT TYPE 3 OR 3A.
- CONCRETE MUST BE POURED AT LEAST 10 DAYS BEFORE GENERATOR IS SET IN PLACE.
- REINFORCING RODS ARE TO BE #4 DEFORMED STEEL. INSTALL RODS AT 12" CENTERS IN EACH DIRECTION.
- VERIFY EXACT DIMENSIONS WITH EQUIPMENT SUPPLIER.
- WHERE PAD IS LOCATED IN CONCRETE FLOOR AREA IT SHALL BE KEPT ISOLATED FROM ADJACENT CONCRETE.
- PROVIDE TYPE STAINLESS STEEL HEAVY-DUTY INSPECTABLE WEDGE TYPE EXPANSION ANCHOR BOLTS (RED HEAD TRUBOLT). BOLTS SHALL BE EMBEDDED 6" (MIN.) IN PAD. VERIFY WITH MANUFACTURER EXACT ANCHOR BOLT REQUIREMENTS, 5/8" DIAMETER MINIMUM.
- CONCRETE PAD SHALL EXCEED GENERATOR BY 12" AROUND ALL SIDES.
- GENERATOR BOTTOM SHALL BE MAINTAINED AT A MINIMUM OF 2-1/2" ABOVE THE CONCRETE PAD.
- GENERATOR MOUNTING RAILS SHALL BE ISOLATED FROM THE CONCRETE PAD WITH 1/2" THICK NEOPRENE PADS. INSTALL PADS WITH 2" GAP ON 24" CENTER TO ALLOW DRAINAGE AND AIR FLOW.

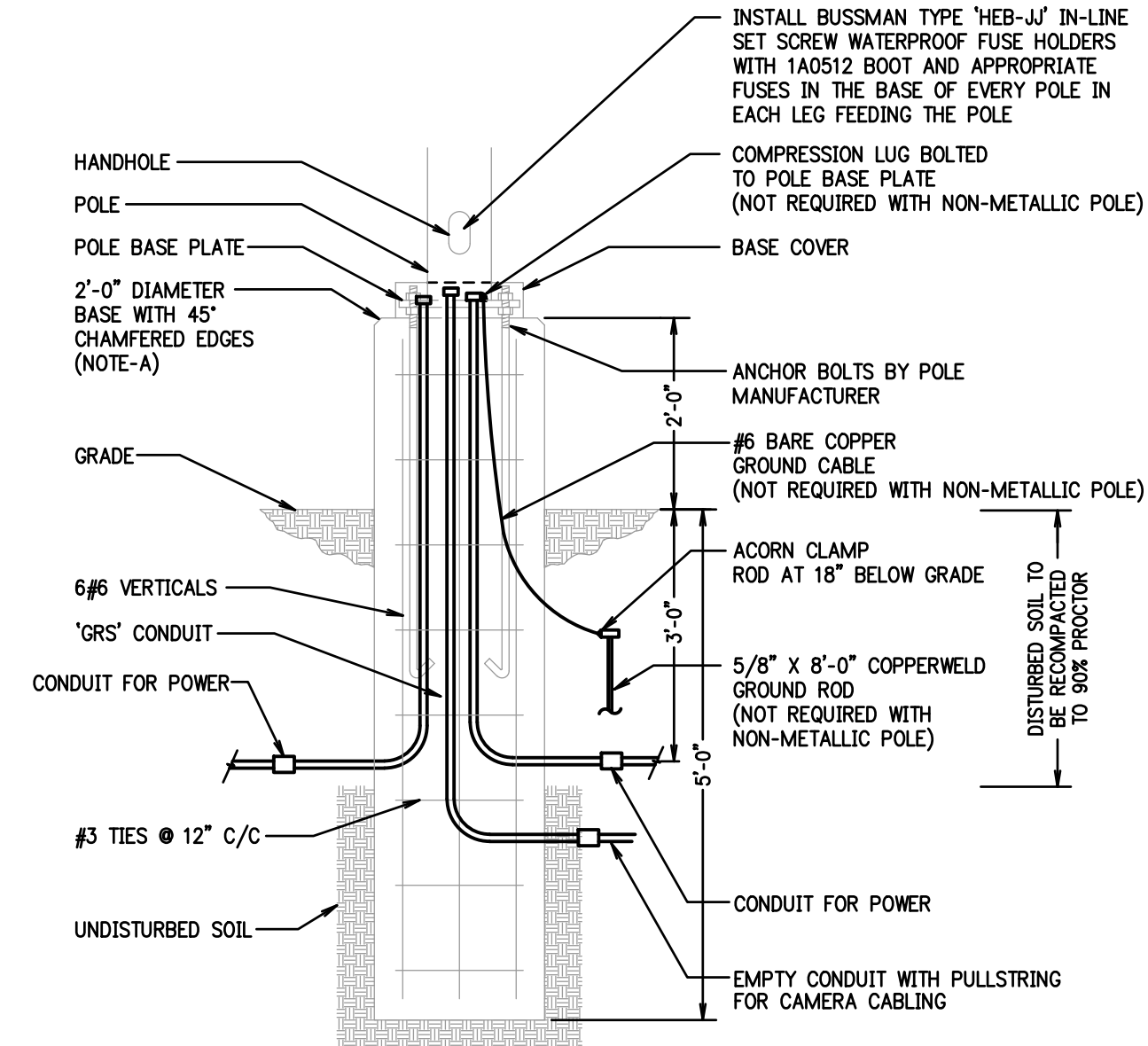
GENERATOR CONCRETE PAD DETAIL, APPROX SIZE (128" X 66")
SCALE: NONE



GENERATOR GROUNDING SCHEMATIC
SCALE: NONE



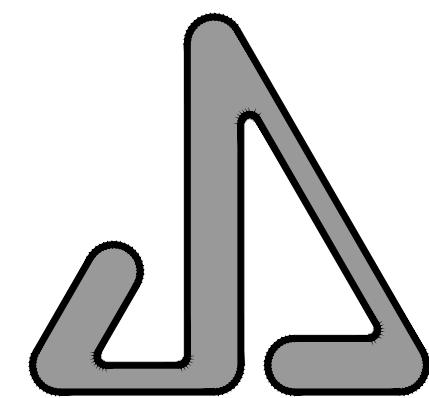
SURGE PROTECTIVE DEVICE INSTALLATION DETAIL
SCALE: NONE



BASE NOTE:

- BASE FORM SHALL HAVE AN INTERNAL COATING TO PROVIDE A SMOOTH FINISH UPON REMOVAL (SONOTUBE FINISH FREE FIBER FORM OR EQUIVALENT). BASE FORM SHALL SHAPE CONCRETE CHAMFER (A GROUND CHAMFER IS NOT ACCEPTABLE) AND FORM SHALL NOT EXTEND MORE THAN 18" BELOW GRADE. USE 4000 PSI CONCRETE WITH 6% AIR ENTRAINMENT - VIBRATED IN PLACE. VIBRATE USING A VIBRATING NEEDLE; DO NOT VIBRATE THE FORM FROM THE OUTSIDE; DO NOT TOUCH THE INSIDE SURFACE OF THE FORM. REMOVE ENTIRE FORM AFTER CONCRETE HAS CURED.

POLE BASE DETAIL
SCALE: NONE



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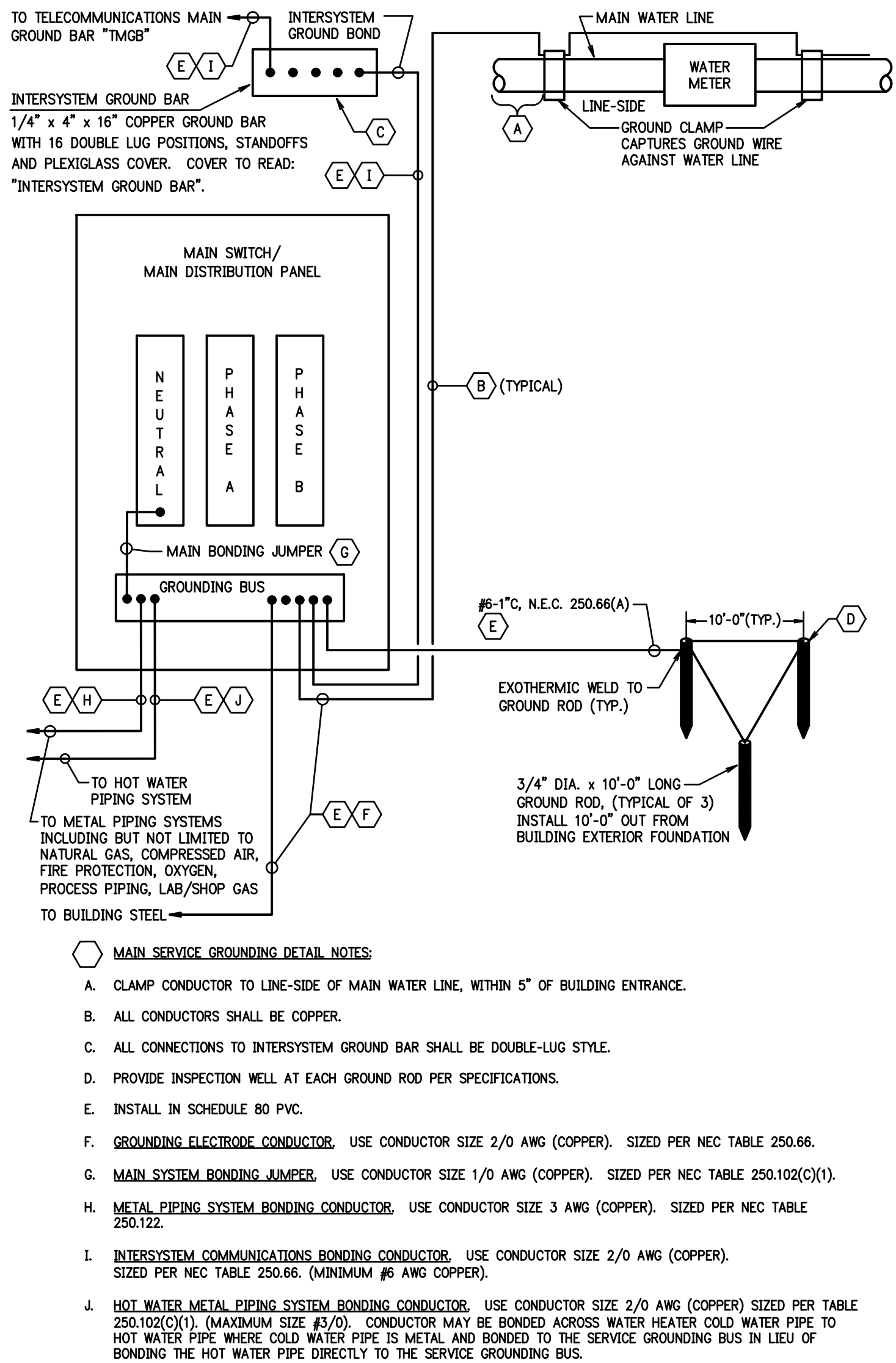
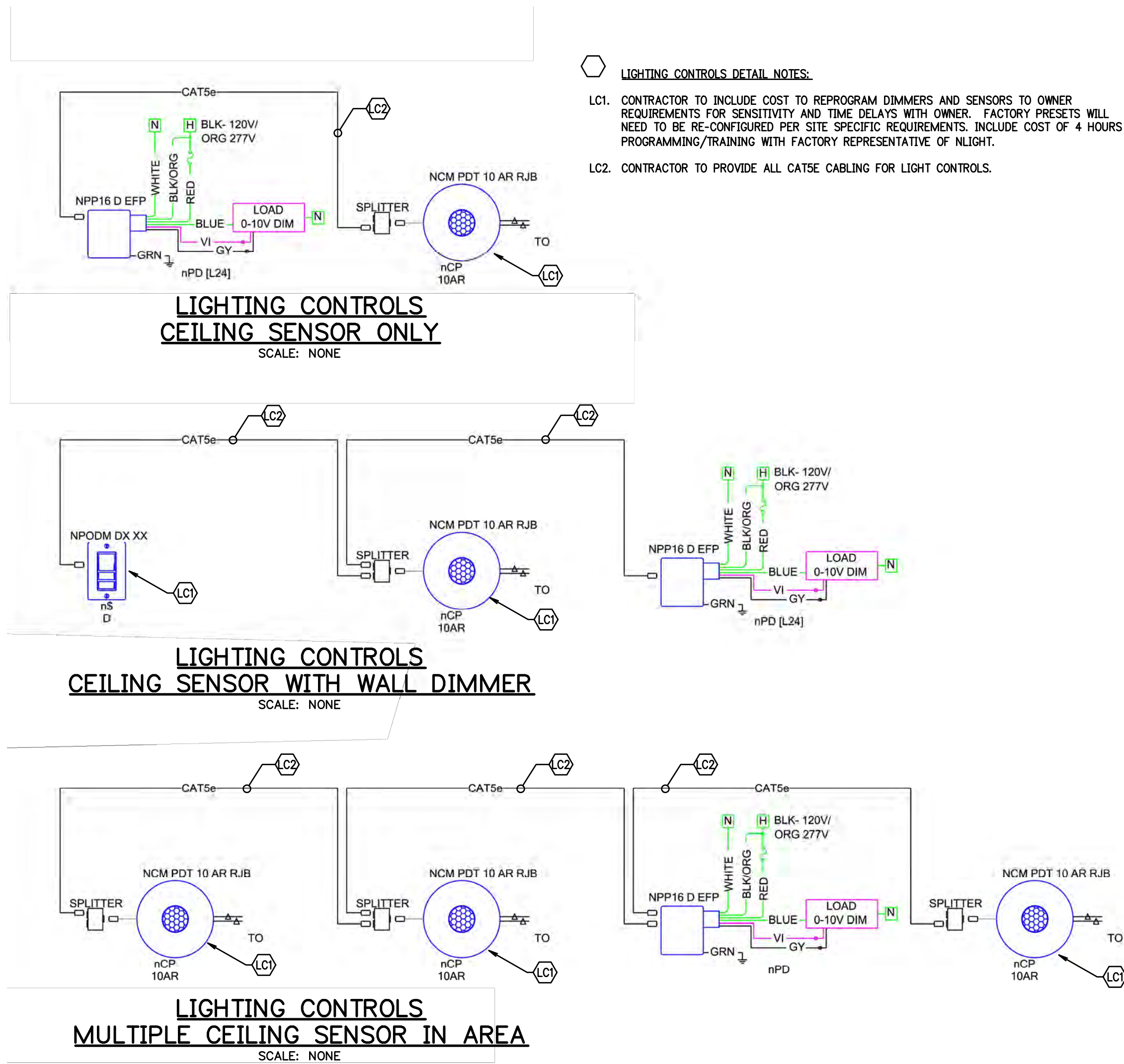
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DETAILS
ELECTRICAL

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E-3



(SINGLE PHASE) (WITHOUT REBAR GROUNDING)
MAIN SERVICE GROUNDING DETAIL
SCALE: NONE

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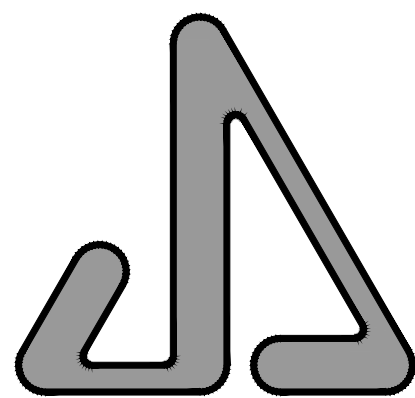
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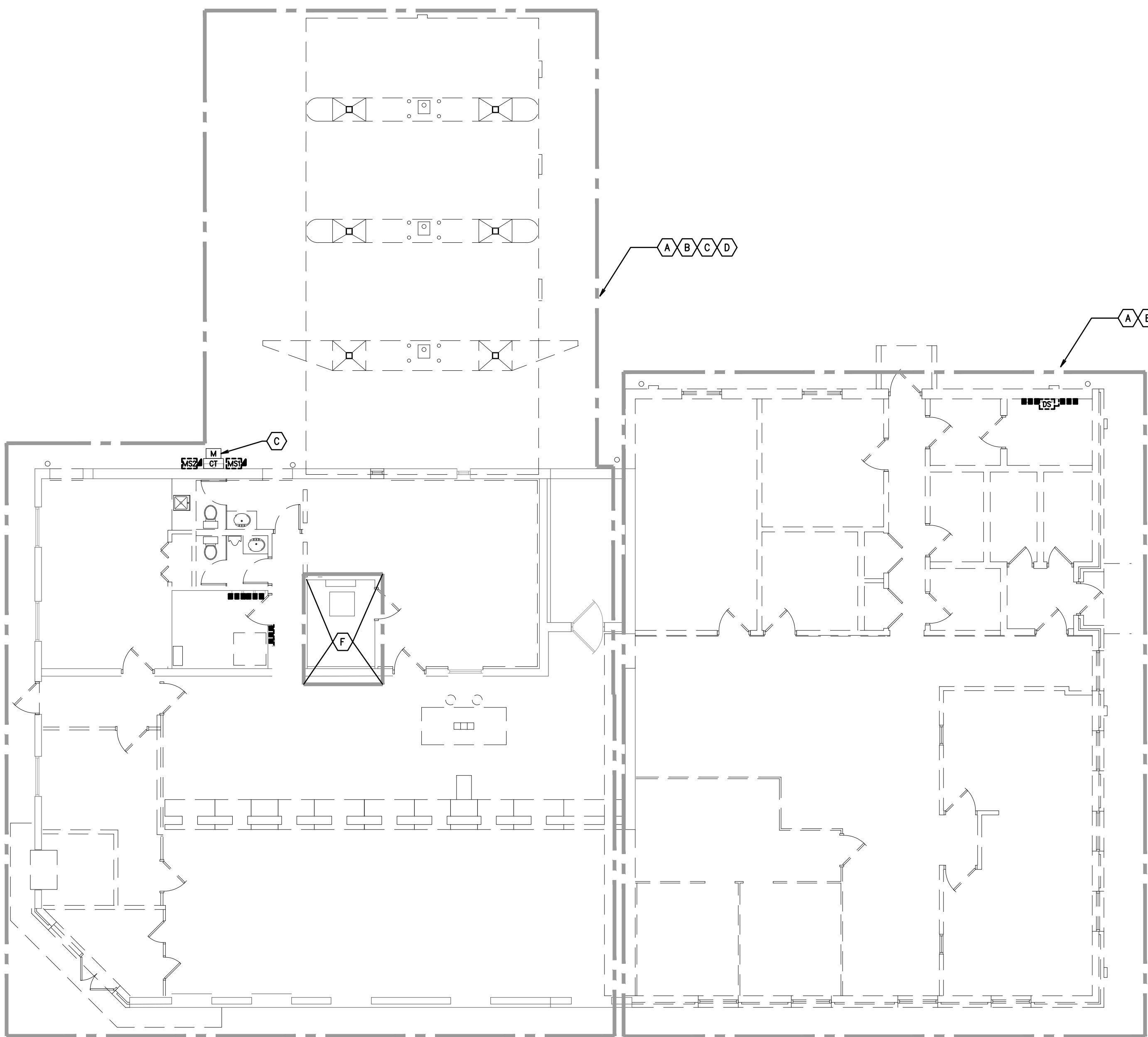


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DEMOLITION
ELECTRICAL

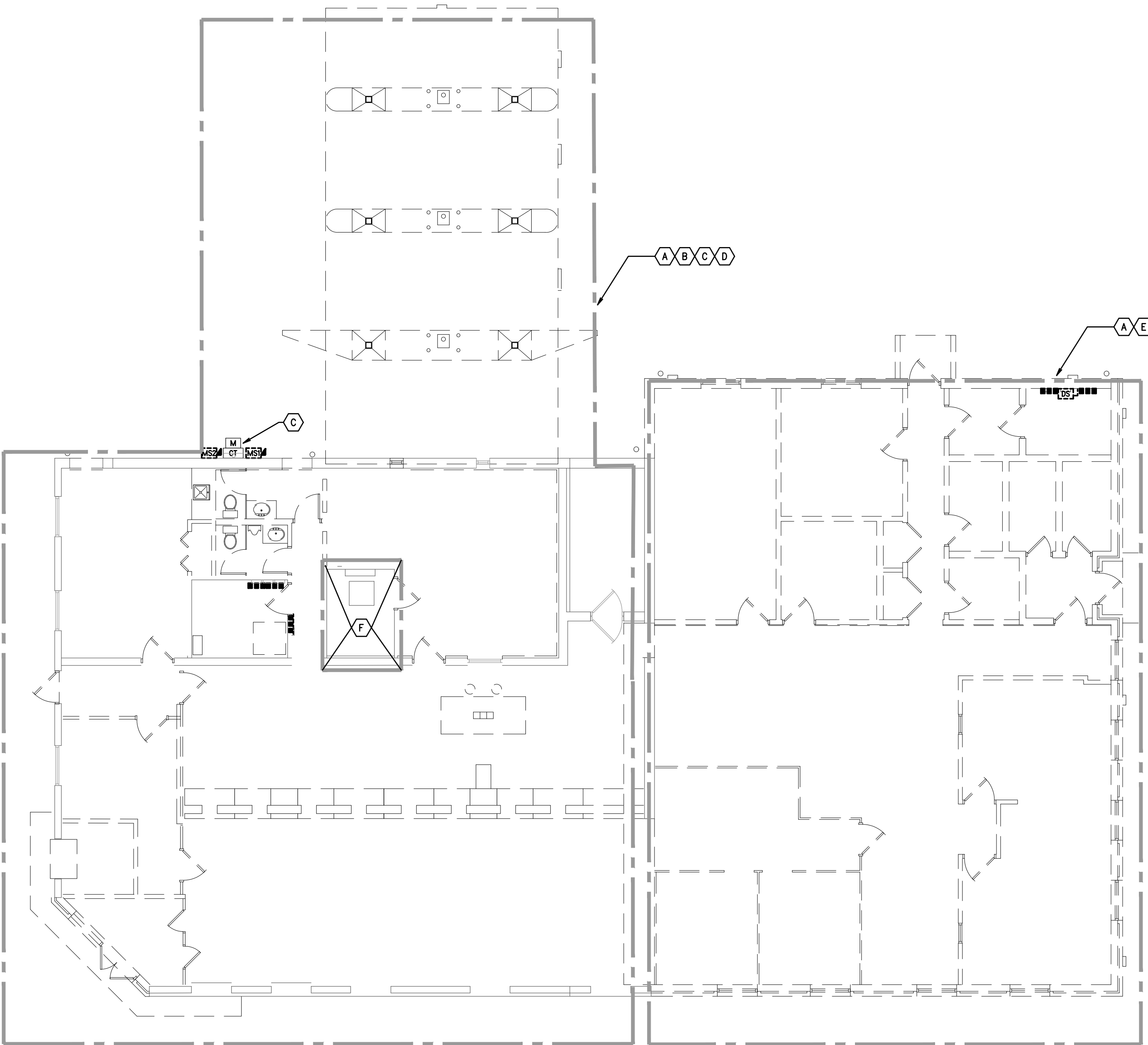


FLOOR PLAN - POWER DEMOLITION
ELECTRICAL
SCALE: 1/8"=1'-0"



PLAN NOTES:

- ELECTRICAL CONTRACTOR TO DISCONNECT POWER AND MAKE SAFE ALL ITEMS IN ORDER TO COMPLETE DEMOLITION SCOPE OF WORK.
- THE INTENT IS TO REMOVE ALL ELECTRICAL PANELS, FEEDERS, BRANCH CIRCUITS, WIRING DEVICES, LIGHT FIXTURES. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE DEMOLITION WITH MCCU AND DTE.
- THE INTENT IS TO USE THE EXISTING CT CABINET AND THE EXISTING EXTERIOR MOUNTED MAIN SWITCH FOR TEMPORARY POWER UNTIL THE NEW SERVICE IS ENERGIZED.
- CONTRACTOR TO INCLUDE ALL COST FOR DISPOSAL OFF SITE. INCLUDE DUMPSTER FEE, TRUCKING AND DISPOSAL FEES. RECYCLE ALL BALLAST AND LAMPS WITH APPROVED RECYCLING FACILITY.
- INDICATES AREA OF COMPLETE DEMOLITION. BUILDING STRUCTURE WILL BE REMOVED.
- IT SERVER ROOM WILL HAVE LIMITED SELECT DEMOLITION. CONTRACTOR TO COORDINATE WITH MCCU IT DEPARTMENT ON ITEMS TO BE REMOVED.



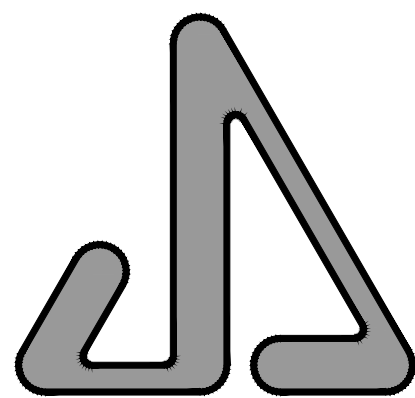
FLOOR PLAN - LIGHTING DEMOLITION
ELECTRICAL
SCALE: 1/8"=1'-0"



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E-5



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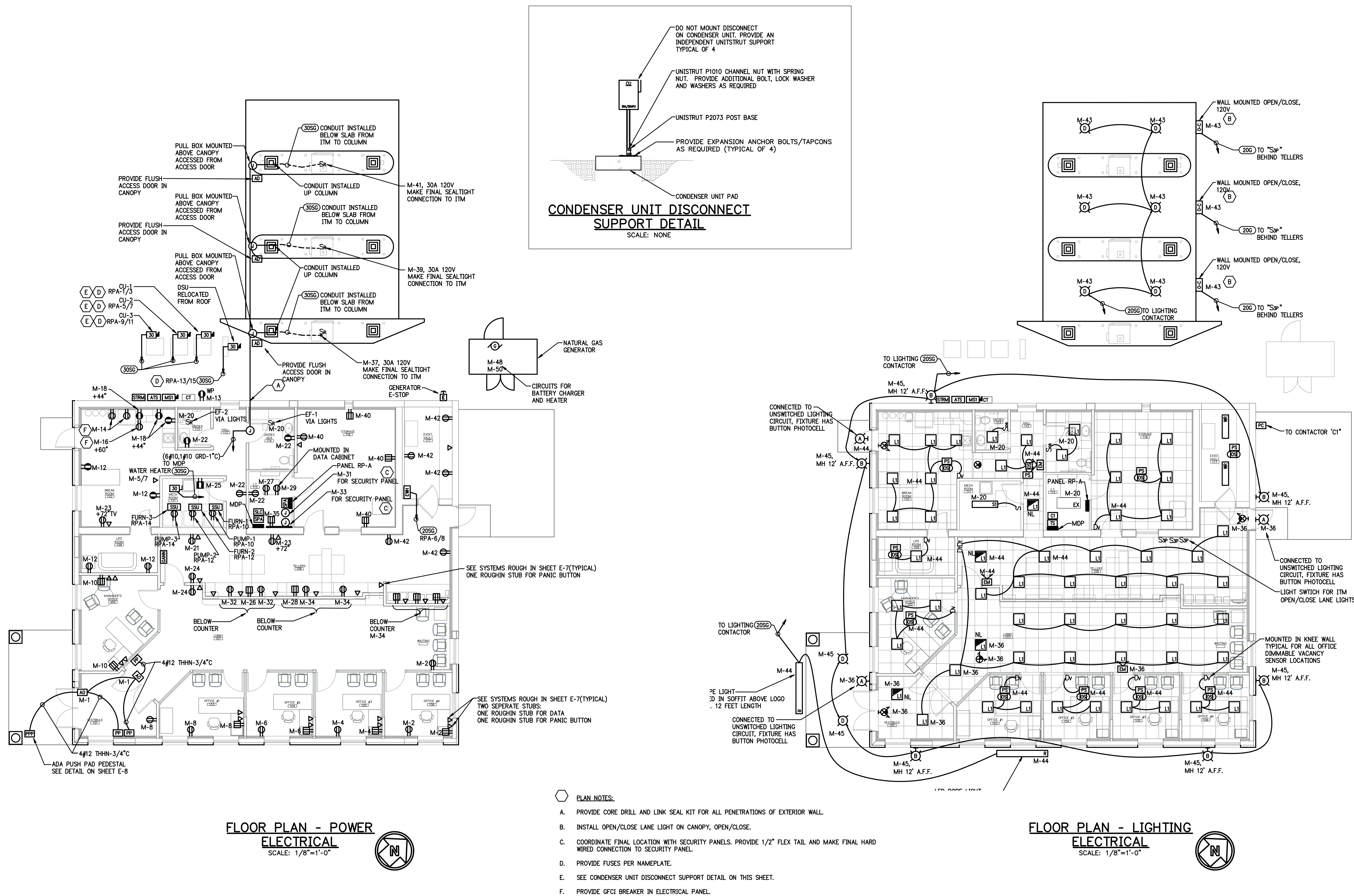
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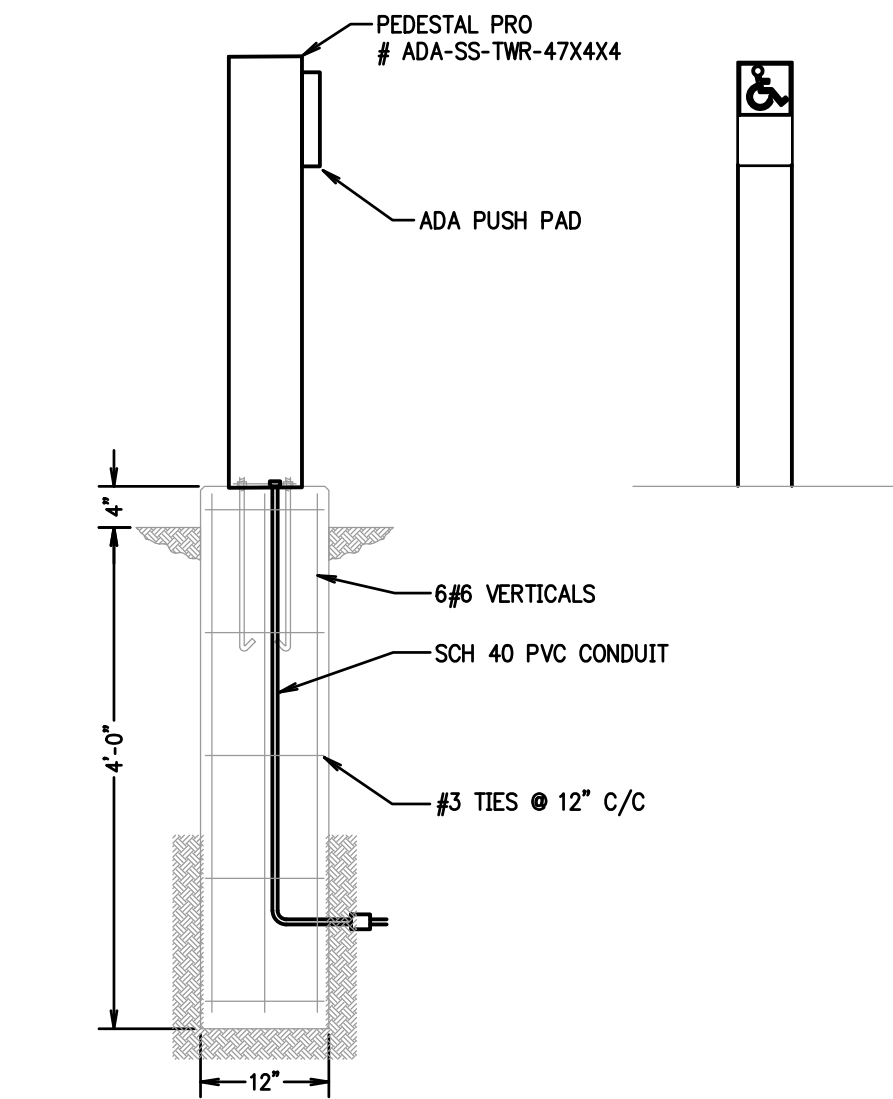
POWER AND
LIGHTING
ELECTRICAL

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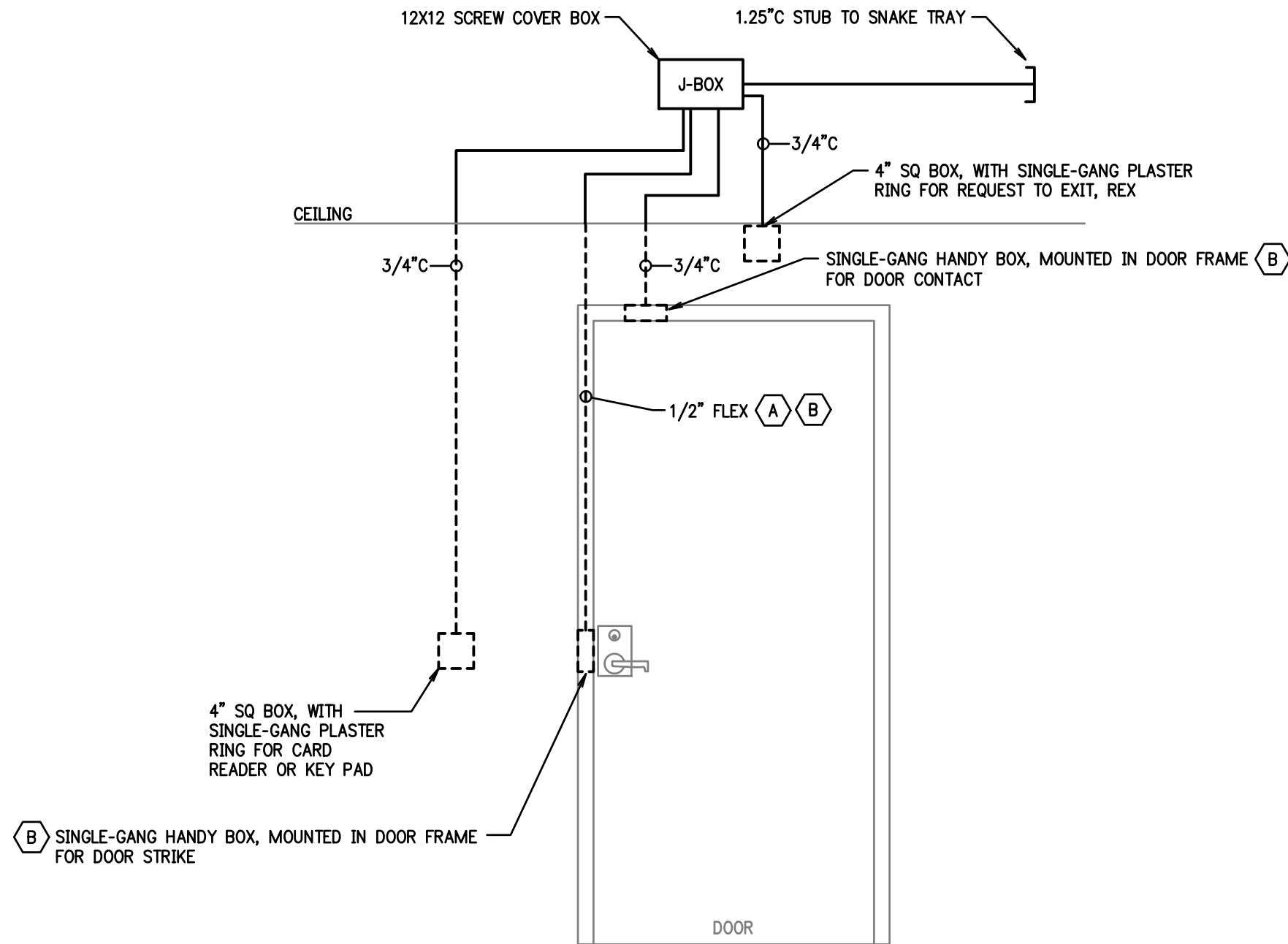
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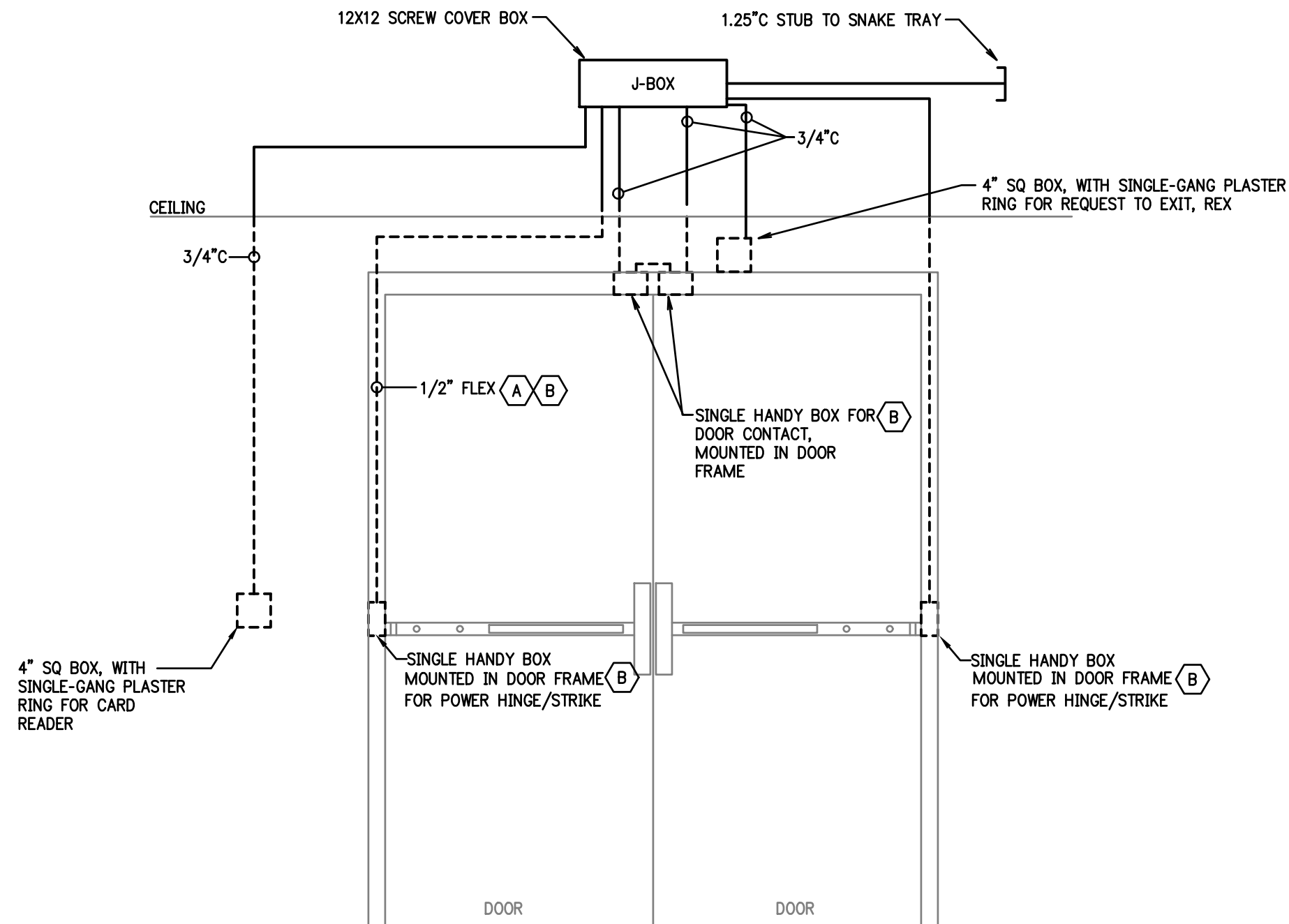
PUSH PAD PEDESTAL DETAIL



- GENERAL DOOR HARDWARE DETAIL NOTES:
- A. ALL PATHWAYS SHALL BE CLEAR WITH NO SHARP EDGES.
 - B. PROVIDE ALL ROUGHINS FOR DOOR FRAME, COORDINATED WITH DOOR INSTALLER.

TYPICAL SECURITY DOOR
ROUGH-IN DETAIL

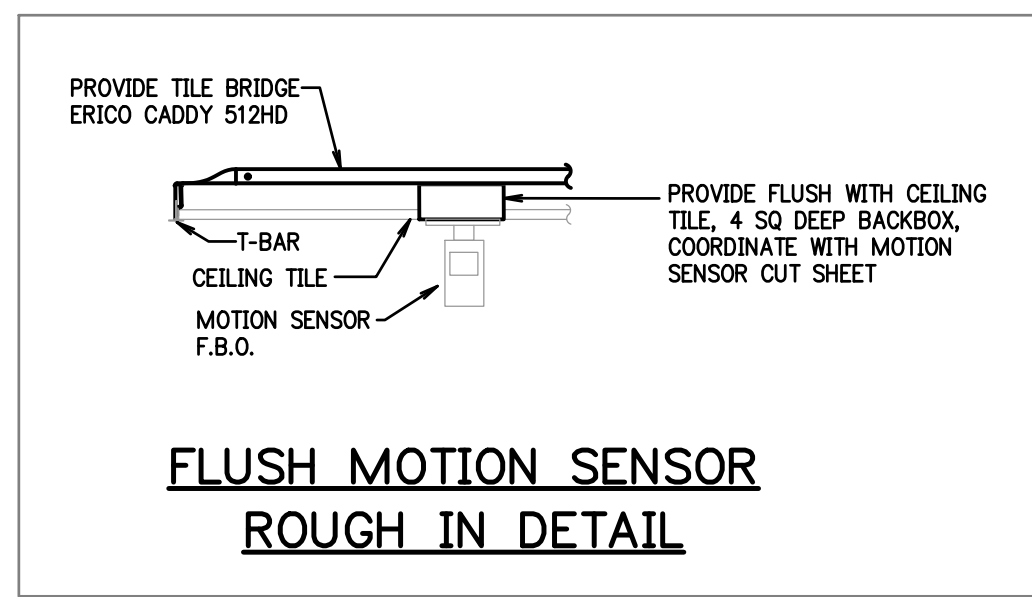
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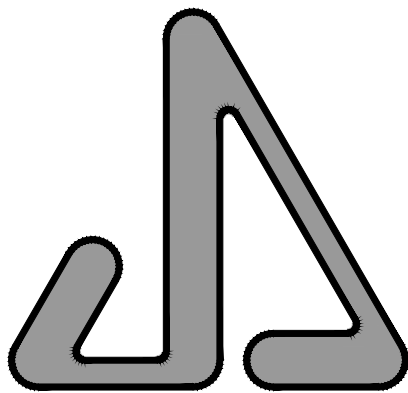
- GENERAL DOOR HARDWARE DETAIL NOTES:
- A. ALL PATHWAYS SHALL BE CLEAR WITH NO SHARP EDGES UP TO THE HEADER.
 - B. PROVIDE ALL ROUGHINS FOR DOOR FRAME, COORDINATED WITH DOOR INSTALLER.

TYPICAL SECURITY DOUBLE-DOOR
ROUGH-IN DETAIL

SCALE: NONE



FLUSH MOTION SENSOR
ROUGH IN DETAIL



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SYSTEMS
ROUGHIN
DETAILS

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E-8

Rev. June 2021

ELECTRICAL SPECIFICATIONS:

SECTION 26 0500 - ELECTRICAL GENERAL PROVISIONS

SECTION 26 0505 - ELECTRICAL RELATED WORK

SECTION 26 0519 - CONDUCTORS (LOW VOLTAGE)

SECTION 26 0526 - GROUNDING

SECTION 26 0533 - RACEWAYS

SECTION 26 0534 - ELECTRICAL BOXES AND FITTINGS

SECTION 26 0554 - ARC FLASH HAZARD LABELING

SECTION 26 2417 - PANELBOARDS

SECTION 26 2726 - WIRING DEVICES

SECTION 26 2813 - OVERCURRENT PROTECTIVE DEVICES

SECTION 26 2816 - DISCONNECT SWITCHES

SECTION 26 2914 - POWER EQUIPMENT

SECTION 26 4313 - SURGE PROTECTIVE DEVICES

SECTION 26 5100 - LUMINAIRES

SECTION 27 0528 - COMMUNICATIONS RACEWAY SYSTEMS

SECTION 28 4611 - SPRINKLER MONITORING SYSTEM

Rev. June 2021

PAGE 1

OUTLINE ELECTRICAL SPECIFICATIONS

SECTION 26 0500 - ELECTRICAL GENERAL PROVISIONS

A. DESCRIPTION OF WORK:

THIS DIVISION SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR ALL ELECTRICAL WORK, CONSISTING OF COMPLETE WIRING FOR LIGHTING, POWER AND OTHER SYSTEMS AS SHOWN.

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL LUMINAIRES AND EQUIPMENT TO MAKE A COMPLETE AND WORKING SYSTEM AS INDICATED ON ASSOCIATED ELECTRICAL PLANS AND/OR THESE SPECIFICATIONS. THIS WILL INCLUDE ALL WIRING REQUIREMENTS FROM THE SERVICE ENTRANCE TO AND INCLUDING FINAL OUTLETS, LUMINAIRES, ETC. THE CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS AND CONNECTIONS TO EQUIPMENT AND CONTROLS FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT.

THIS CONTRACTOR SHALL CAREFULLY READ THE GENERAL AND SPECIFIC CONDITIONS ATTACHED HERETO, WHICH, WITH THE FOLLOWING SPECIFICATIONS AND COMPLETE WORKING DRAWINGS, DETAILS AND ADDENDA, GOVERN ALL WORK UNDER THIS HEADING.

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO INSTALL AND ACCOMPLISH ALL WORK HEREINAFTER DESCRIBED. THIS SHALL INCLUDE ALL EXCAVATION, BACKFILL, TAMPING, COMPACTION, BASES, CONCRETE WORK, SUPPORTS BRACES, STEEL, INSERTS, ANCHORS, CHASES, SLEEVES, HOLES, ETC., REQUIRED TO ACCOMPLISH ALL PHASES OF THE ELECTRICAL CONTRACT, WITHOUT RELYING UPON OTHER TRADES OR INFERRING ANYTHING THAT IS MENTIONED IN OTHER DIVISIONS OF THIS SPECIFICATIONS, UNLESS IT IS SPECIFICALLY STATED IN THE ELECTRICAL SPECIFICATIONS OR NOTED ON THE DRAWINGS THAT IT IS TO BE FURNISHED OR PROVIDED BY ANOTHER TRADE.

SITE VISITATION: EXAMINATION OF THE SITE SHALL BE MADE BY THIS CONTRACTOR, WHO SHALL COMPARE IT WITH THE DRAWINGS AND SPECIFICATIONS AND SHALL SATISFY HIMSELF AS TO ALL THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. CONTRACTOR SHALL ASCERTAIN AND CHECK THE LOCATION OF ANY EXISTING STRUCTURES OR EQUIPMENT WHICH MAY AFFECT THIS WORK.

B. DRAWINGS:

THE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE COMPLEMENTARY TO THEM. WHAT IS CALLED FOR BE CONSIDERED AS THOUGH CALLED FOR BY BOTH, UNLESS SPECIFICALLY STATED OR SHOWN OTHERWISE.

THE WIRING LAYOUT IS SCHEMATIC AND THE EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL AND OTHER CONDITIONS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT THE DESIGN OF THE SYSTEM MAY BE CHANGED. IT REFERS ONLY TO THE EXACT LOCATIONS OF CONDUITS AND EQUIPMENT TO FIT INTO THE BUILDING AS CONSTRUCTED AND THE COORDINATION OF CONDUIT AND OTHER EQUIPMENT WITH PIPING AND EQUIPMENT INCLUDED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS.

THE EXACT LOCATION OF CONDUITS AND EQUIPMENT NOT LOCATED BY DIMENSIONS ON THE DRAWINGS SHALL BE DETERMINED IN THE FIELD CONSIDERING INTERFERENCES AND APPEARANCE. MINOR CHANGES IN THE LOCATION OF EQUIPMENT FROM THAT SHOWN ON THE DRAWINGS SHALL NOT CONSTITUTE A REASON FOR EXTRA CHARGES.

THE DRAWINGS ILLUSTRATE THE WORK SPECIFIED AND ARE INTENDED TO AGREE IN EVERY RESPECT WITH ANY AND ALL OTHER SPECIFICATIONS. ALL DISCREPANCIES THAT APPEAR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER/ARCHITECT FOR CORRECTION. NO OMISSION FROM ANY DRAWINGS SHALL RELEASE THE CONTRACTOR FROM FURNISHING EQUIPMENT OR MATERIALS CALLED FOR BY THE SPECIFICATIONS OR OTHER DRAWINGS.

D. COORDINATION WITH WORK OF OTHER TRADES:

THIS CONTRACTOR SHALL EXAMINE WORK OF OTHER TRADES WHICH COMES IN CONTACT WITH OR IS COVERED BY HIS. HE SHALL, IN NO CASE, ATTACH TO, COVER UP, OR FINISH AGAINST DEFECTIVE WORK. THIS CONTRACTOR SHALL CONSULT ALL DRAWINGS AND DETAILS, BOTH ARCHITECTURAL AND MECHANICAL.

E. BASIC MATERIALS:

ALL MATERIALS SHALL BE OF BEST QUALITY, NEW AND APPROVED BY UNDERWRITERS LABORATORIES, INC. WHERE SUCH APPROVAL IS APPLICABLE. MATERIALS SPECIFIED BY MANUFACTURER'S CATALOG NUMBER SHALL BE AS SPECIFIED UNLESS "OR EQUAL" SUBSTITUTIONS ARE AUTHORIZED BY THE ENGINEER/ARCHITECT.

APPROVAL OF REQUESTS FOR SUBSTITUTION OF PRODUCTS OR PROCESSES OTHER THAN THOSE SPECIFIED WILL BE CONTINGENT UPON SUBMISSION OF PROOF, SATISFACTORY TO THE ENGINEER/ARCHITECT AND OWNER, THAT:

- THE CONTRACTOR WILL PROVIDE THE SAME WARRANTY FOR THE SUBSTITUTION THAT HE WOULD FOR THE PRODUCT SPECIFIED.
- ALL REQUESTS FOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER/ARCHITECT NO LATER THAN 14 DAYS BEFORE PURCHASING OR INSTALLING PRODUCTS.

F. QUALITY ASSURANCE CODES, STANDARDS, PERMITS AND SYMBOLS:

TESTS: DEMONSTRATE BY TESTS, AT THE REQUEST OF THE ENGINEER/ARCHITECT AND OWNER, THE COMPLIANCE OF THE INSTALLATION WITH THESE SPECIFICATIONS, THE DRAWINGS, THE NATIONAL ELECTRICAL CODE, AND THE ACCEPTED STANDARDS OF GOOD WORKMANSHIP. THESE TESTS SHALL INCLUDE OPERATIONS OF LIGHTS AND EQUIPMENT, CONTINUITY OF THE CONDUIT SYSTEM, GROUNDING RESISTANCE AND INSULATION RESISTANCE MEASUREMENTS ON NOT MORE THAN TEN REPRESENTATIVE CIRCUITS AND ANY OTHER CIRCUITS FOR WHICH A JUSTIFIABLE REASON EXISTS FOR SUCH TESTS. ALL LABOR AND TESTING EQUIPMENT FOR THE PERFORMANCE OF THESE TESTS SHALL BE FURNISHED BY THIS CONTRACTOR.

PERMITS: THIS CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, INSPECTIONS AND FEES REQUIRED FOR THE EXECUTION OF HIS WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR COMPLIANCE WITH APPLICABLE CODES REGARDLESS OF THE METHOD(S) SHOWN OR SPECIFIED.

G. SUBMITTALS:

SHOP DRAWINGS: SUBMIT EIGHT COPIES OF DETAILED SHOP DRAWINGS OF ALL ITEMS OF EQUIPMENT FURNISHED UNDER THIS CONTRACT FOR APPROVAL, BEFORE MANUFACTURE OF THE EQUIPMENT OR ITS INCORPORATION IN THE WORK. DRAWINGS SHALL BE SUBMITTED COVERING PANELBOARDS, DRY TYPE TRANSFORMERS, LIGHTING LUMINAIRES, ELECTRONIC

BALLASTS FOR FLUORESCENT LUMINAIRES, WIRING DEVICES, MOTOR CONTROLS, FIRE ALARM SYSTEM, ETC.

IF QUANTITIES APPEAR ON THE DRAWINGS, THEY WILL BE MARKED OUT. THE ENGINEER/ARCHITECT WILL NOT APPROVE QUANTITIES. THIS IS THE CONTRACTOR'S RESPONSIBILITY.

IF STANDARD CATALOG SHEETS CONTAINING NUMEROUS NUMBERS, SUCH AS LUMINAIRE TYPES, ARE SUBMITTED WITHOUT BEING MARKED FOR IDENTIFICATION, THEY WILL BE RETURNED FOR RESUBMISSION.

SHOP DRAWINGS OF DISTRIBUTION SWITCHBOARDS OR PANELBOARDS AND MOTOR CONTROL CENTERS SHALL INCLUDE FULL FRONT ELEVATIONS INDICATING ALL FUSIBLE SWITCHES, BREAKERS, STARTERS, ETC. DIMENSIONED SPACE FOR FUTURE BRANCH SWITCHES, BREAKERS AND/OR STARTERS SHALL BE INCLUDED ON THE ELEVATION.

RECORD DRAWINGS: THE CONTRACTOR SHALL KEEP IN THE FIELD, AND OPEN TO INSPECTION, AN ACCURATE, CURRENT, PROGRESSIVE RECORD OF THE ACTUAL INSTALLATION OF THE ELECTRICAL SYSTEM. ON COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER MARKED PRINTS SHOWING THE ACTUAL ROUTING OF THE CONDUITS AND DUCTS, LOCATIONS AND ELEVATION OF OUTLETS, CIRCUIT NUMBERS OF ALL LIGHTING AND POWER CIRCUITS, INSTALLATION DETAILS OF LIGHTING LUMINAIRES, POWER PANELS, ETC.

H. PRODUCTS:

PRODUCTS, ELECTRICAL WORK:

IT IS TO BE EMPHASIZED THAT THE CONTRACTOR'S BASE BID SHALL BE BASED ON EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMISSION OF SUBSTITUTE ITEMS OF EQUIPMENT BY ANY BIDDER, CONTRACTOR, OR MANUFACTURER SHALL BE IN NO WAY BINDING ON THE OWNER OR ENGINEER FOR ACCEPTANCE OR REJECTION. FINAL APPROVAL OF ALL EQUIPMENT AND MATERIALS SHALL BE MADE ONLY AFTER FINAL TEST AND ACCEPTANCE OF THE PROJECT.

I. EXECUTION:

GENERAL:

PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, OSHA, STATE AND LOCAL CODES WHICH APPLY.

AT NO TIME SHALL ELECTRICAL WORK BE WITHOUT THE IMMEDIATE ON-THE-JOB SUPERVISION OF A JOURNEYMAN ELECTRICIAN.

BALANCE LOAD ON FEEDERS AND MAIN SWITCH TO WITHIN 10% UNDER MAXIMUM LOAD CONDITIONS.

THIS CONTRACTOR SHALL AT ALL TIMES KEEP HIMSELF FULLY INFORMED OF THE PROGRESS OF THE GENERAL CONTRACT WORK AND OF THE WORK THAT IS BEING DONE AND BUILT INTO THE BUILDING IN PLACE IN SUFFICIENT TIME TO INSURE PROPER LOCATION WITHOUT DELAYS IN THE WORK OF THE OTHER TRADES. PROPERLY ATTEND THE ELECTRICAL WORK DURING THE PROGRESS OF THE BUILDING-IN TO PREVENT MISALIGNMENTS OR DAMAGE TO THE ELECTRICAL WORK.

UPON COMPLETION OF WORK, THE ENTIRE INSTALLATION WILL BE INSPECTED AND TESTED TO SEE THAT THE REQUIREMENTS OF THESE SPECIFICATIONS HAVE BEEN FULLY COMPLIED WITH BEFORE THE FINAL PAYMENT WILL BE APPROVED.

PENETRATION OF METAL ROOF DECK IS NOT PERMITTED FOR HANGERS, CLAMPS, FASTENERS, ETC.

IN AREAS WITHOUT SUSPENDED CEILINGS, LUMINAIRES AND ELECTRICAL PRODUCTS LOCATED BETWEEN STRUCTURAL MEMBERS SHALL BE SUPPORTED BY AN APPROVED SYSTEM, SUCH AS "UNISTRUT" AND ALL ADDITIONAL SUPPLEMENTARY SUPPORT AS MAY BE REQUIRED. SUPPORTS COMPOSED OF CHANNEL, IRON, CONDUIT, WIRE OR OTHER NON-APPROVED MATERIAL SHALL NOT BE ACCEPTABLE.

EXPPOSED CONDUIT INSTALLED AFTER ROOM HAS BEEN PAINTED SHALL BE PAINTED TO MATCH ROOM FINISH BY THIS CONTRACTOR.

NO CONDUITS, CABLES, BOXES, DEVICES, ETC., SHALL BE ATTACHED TO WIRES THAT SUPPORT CEILING SUSPENSION SYSTEM.

ALL INCANDESCENT LUMINAIRES, SPEAKERS, SMOKE DETECTORS, CLOCKS, ETC., ATTACHED TO OR SUSPENDED FROM GRID CEILINGS SHALL BE SUPPORTED FROM THE MAIN T-BARS, NOT THE INTERMEDIATE T'S.

OPENINGS AROUND CONDUITS OR IN SLEEVES FOR CONDUITS PENETRATING FIRE-RATED FLOOR SLABS, WALLS, PARTITIONS, CEILINGS OR SMOKE PARTITIONS, SHALL BE SEALED AT BOTH SIDES OF THE PENETRATION. INSULATION SHALL NOT EXTEND THROUGH SLEEVES. PACK OPENINGS WITH CALCIUM SILICATE BLOCK, DOW CORNING 96548 RTV SILICONE FOAM, 3M CP25 CAULK, OR 303 PUTTY FIRE BARRIER SYSTEM, OR MATERIAL HAVING THE SAME FIRE RATING AS THE FLOOR OR WALL PENETRATED. FIBERGLASS IS NOT ACCEPTABLE.

ALL RECESSED LUMINAIRES SHALL BE SECURELY FASTENED AT EACH CORNER TO THE CEILING FRAMING MEMBERS BY MECHANICAL MEANS SUCH AS SCREWS OR RIVETS. SURFACE MOUNTED LUMINAIRES SHALL BE SECURELY FASTENED AT EACH END TO THE CEILING FRAMING MEMBERS BY MECHANICAL MEANS SUCH AS SCREWS OR RIVETS.

THE CONTRACTOR SHALL USE ALL CARE POSSIBLE TO AVOID SOILING THE FLOORS AND WALLS. NO CUTTING, THREADING, OR BENDING OF CONDUIT WILL BE PERMITTED IN BUILDING AREAS WHERE FINISHED FLOORS HAVE BEEN INSTALLED, UNLESS THE FLOORS ARE COVERED OR PROTECTED. IF FLOORS ARE DAMAGED, THEY SHALL BE REFURNISHED TO THE SATISFACTION OF THE ENGINEER/ARCHITECT.

NAMEPLATES: PROVIDE NAMEPLATES ON ALL EQUIPMENT OF THE TYPE LISTED IN THE FOLLOWING SCHEDULES:

- PANELBOARDS
- MOTOR STARTERS
- SAFETY SWITCHES
- CONTROL PANELS
- CONTROL DEVICES
- EMERGENCY SYSTEM EQUIPMENT
- TRANSFORMERS

NAMEPLATES SHALL BE LAMINATED PHENOLIC WITH A WHITE SURFACE AND BLACK CORE. USE 1/16" THICK MATERIAL FOR PLATES UP TO 2" X 4"; FOR LARGER SIZES USE 1/8" THICK MATERIAL.

LETTERING SHALL BE CONDENSED GOTHIC. THE SPACE BETWEEN LINES SHALL BE EQUAL TO THE WIDTH OF THE LETTERS. USE 1/4" MINIMUM HEIGHT LETTERS WHICH OCCUPY FOUR TO THE INCH. INCREASE LETTER SIZE TO 3/4" ON THE LARGEST PLATES.

WARRANTY: THIS CONTRACTOR SHALL WARRANTY HIS ENTIRE ELECTRICAL INSTALLATION AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTANCE BY THE OWNER, ORDINARY WEAR AND TEAR EXCEPTED, OR SUCH LONGER PERIOD AS SPECIFIED IN THE CONTRACT DOCUMENTS. UPON WRITTEN NOTICE FROM THE OWNER, THIS CONTRACTOR SHALL REMEDY ALL SUCH DEFECTS AT HIS OWN EXPENSE AND AT A TIME CONVENIENT TO THE OWNER.

TEMPORARY LIGHTING AND ELECTRIC POWER:

THIS CONTRACTOR SHALL PROVIDE TEMPORARY GENERAL LIGHTING AND POWER IN ACCORDANCE WITH OSHA STANDARDS. TEMPORARY ELECTRICAL POWER SHALL CONSIST OF A MINIMUM OF ONE DOUBLE DUPLEX RECEPTACLE WITH GROUND FAULT PROTECTION, INSTALLED IN THE ELECTRICAL ROOM ON EACH FLOOR. 120 VOLT RECEPTACLES WITH GROUND FAULT PROTECTION SHALL BE INSTALLED SO THAT NO SUBCONTRACTOR WILL BE REQUIRED TO USE EXTENSION CORDS IN EXCESS OF 75'-0". PROVIDE AND MAINTAIN A MINIMUM OF 1/2 WATT PER SQUARE FOOT FOR POWER AND A MINIMUM OF 20 FOOTCANDLES FOR LIGHTING. SPECIAL TEMPORARY WIRING FOR LIGHTING, INCLUDING ALL ADDITIONAL LIGHTING FOR SPECIAL FINISHES, AND ELECTRICAL POWER REQUIREMENTS OVER THOSE SPECIFIED, SHALL BE THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTOR.

IF SUITABLE POWER IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER FROM THE LOCAL UTILITY INCLUDING ALL POLES, TRANSFORMERS, METERS, ETC., AND INCLUDING ALL POWER COMPANY INSTALLATION CHARGES.

IF THE COST OF POWER IS TO BE BORNE BY THE CONTRACTORS, IT SHALL BE DONE ON A PERCENTAGE BASIS ACCORDING TO CONTRACT AWARD AND DIVIDED AMONG ALL PROJECT CONTRACTORS.

THE CONTRACTOR SHALL REMOVE ALL TEMPORARY WIRING AT CLOSE OF CONTRACT, INCLUDING ALL WIRING, PANELS, ETC., INSTALLED UNDER PREVIOUS CONTRACTS.

CHECK AND TIGHTEN ALL PLATES, COVERS, DOORS, AND TRIMS USED IN CONJUNCTION WITH ELECTRICAL EQUIPMENT. ALL OUTLET OPENINGS NOT RECEIVING A DEVICE SHALL BE PROVIDED WITH A BLANK PLATE. THERE SHALL BE NO "OPEN" BOXES.

UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REMOVE ALL DEBRIS, TOOLS, MACHINES, ETC., PERTAINING TO THIS WORK AND SHALL LEAVE THE AREA BROOM CLEAN. THE WORK, INCLUDING LUMINAIRES, SHALL BE THOROUGHLY CLEANED AND READY FOR USE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CLEAN AND SAFE CONDITIONS IN THE AREA OF HIS WORK.

DUE TO ARC FLASH HAZARDS, ANY WORK REQUIRED ON ELECTRICAL EQUIPMENT THAT IS ENERGIZED SHALL BE WITH WRITTEN PERMISSION FROM THE OWNER. THE ELECTRICAL CONTRACTOR SHALL REQUIRE EMPLOYEES TO WEAR THE PROPER PERSONAL PROTECTION (PPE) EQUIPMENT REQUIRED IN NFPA-70E, 130.7(C)(9).

SECTION 26 0505 - ELECTRICAL RELATED WORK

A. DESCRIPTION OF WORK:

EXTENT OF ELECTRICAL RELATED WORK REQUIRED BY THIS SECTION IS INDICATED ON DRAWINGS AND/OR SPECIFIED IN OTHER DIVISION-26 SECTIONS.

TYPES OF ELECTRICAL RELATED WORK SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING:

- ACCESS TO ELECTRICAL WORK
- HAZARDOUS CLASSIFIED AREAS
- CUTTING AND PATCHING FOR ELECTRICAL WORK
- EXCAVATING FOR ELECTRICAL WORK
- CONCRETE FOR ELECTRICAL WORK

B. EXECUTION:

CUTTING AND PATCHING: AVOID CUTTING INTO WORK BY OTHERS BY USING SLEEVES, INSERTS, CHASES, ETC. THE CONTRACTOR IN WHOSE WORK IT SHALL BE NECESSARY TO USE ANY OF THESE METHODS SHALL BUILD SAME INTO HIS WORK, BUT THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT SIZES AND LOCATIONS OF SAME AND SHALL FURNISH ALL SLEEVES AND INSERTS. ALL SLEEVES AND INSERTS SHALL BE FURNISHED IN AMPLE TIME SO AS NOT TO CAUSE DELAY OF OTHER TRADES.

NO CUTTING SHALL BE DONE WHICH WILL IN ANY WAY REDUCE THE STRUCTURAL STRENGTH OF THE BUILDING. SHOULD SUCH CUTTING BE FOUND NECESSARY, THE ENGINEER/ARCHITECT MUST FIRST BE FULLY INFORMED OF AND CONSENT TO THE PROPOSED OPERATION.

CUTTING AND PATCHING OF EXISTING WALLS, FLOORS, CEILINGS, ROOF, ETC. FOR NEW CONDUITS, RACEWAY, ETC. SHALL BE ACCOMPLISHED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. THIS SHALL INCLUDE THE INSTALLATION OF LINTELS, FRAMING, ETC. WHERE CONDUITS, RACEWAYS, EQUIPMENT, ETC. HAVE BEEN REMOVED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL HIRE A GENERAL TRADES CONTRACTOR TO PERFORM ALL REQUIRED CUTTING AND PATCHING, WHERE EXISTING ROOF MUST BE CUT AND PATCHED, THE ELECTRICAL CONTRACTOR SHALL HIRE A ROOFING CONTRACTOR CERTIFIED TO MAKE REPAIRS AND MAINTAIN THE ROOF WARRANTY OR BOND.

EXCAVATION, BACKFILL AND CONCRETE WORK: ALL EXCAVATION AND BACKFILL REQUIRED FOR THE EXECUTION OF THE ELECTRICAL WORK SHALL BE INCLUDED IN THE ELECTRICAL CONTRACT.

BACKFILL MATERIAL SHALL BE GRANULAR OR APPROVED EXCAVATED MATERIAL. BACKFILL MATERIAL, COMPACTION REQUIREMENTS, ETC. SHALL BE AS SPECIFIED IN THE GENERAL SECTION OF THESE SPECIFICATIONS.

ALL CONCRETE WORK FOR ELECTRICAL EQUIPMENT PADS, BASES, ETC. SHALL BE INCLUDED IN THE ELECTRICAL CONTRACT.

SECTION 26 0519 - CONDUCTORS

A. MATERIAL:

MINIMUM SIZE WIRE FOR LIGHTING AND POWER FEEDERS AND BRANCH CIRCUITS (20 AMPERE) SHALL BE NO. 12 AWG COPPER. MINIMUM SIZE WIRE FOR CONTROL CIRCUITS SHALL BE NO. 14 AWG COPPER. ALL WIRE SHALL BE STRANDED.

ALL CONDUCTORS FOR FEEDERS 100A (NO. 2 CU / NO. 1 AL) AND LARGER SHALL BE TYPE XHHW-2 COPPER, 600 VOLT, UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONDUCTORS SHALL BE INSULATED WITH VIRGIN CROSS-LINKED POLYETHYLENE INSULATION. ALL CONDUCTORS FOR FEEDERS SMALLER THAN 100A (NO. 2 CU / NO. 1 AL) SHALL BE TYPE THHN/THWN COPPER (PER N.E.C.), 600 VOLT, UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE CONDUCTORS SHALL BE INSULATED WITH VIRGIN PVC COMPOUND AND SHALL HAVE AN OVERALL EXTRUDED NYLON JACKET. NYLON "SKIM" OR "DIP" COATING WILL NOT BE ACCEPTABLE.

A GREEN GROUND WIRE, SIZED ACCORDING TO THE NEC TABLE 250-122, SHALL BE INSTALLED IN ALL FLEXIBLE CONDUIT AND KEPT ISOLATED FROM THE WHITE NEUTRAL WIRE.

ALL WIRE AND/OR CABLE SHALL BE DELIVERED TO THE JOB SITE IN FULL FACTORY LENGTHS OF 500'-0" MINIMUM. LONGER REELS MAY BE USED WHERE CONDITIONS DICTATE.

APPROVED MANUFACTURERS ARE AETNA, AMERICAN INSULATED, ENCORE, SUPERIOR ESSEX, PRYSMIAN, AND SOUTHWIRE.

B. EXECUTION:

JOINTS:

JOINTS AND SPLICES SHALL BE MADE ONLY AT ACCESSIBLE BOXES.

JOINTS IN NO. 8 AND SMALLER WIRE SHALL BE MADE WITH MINNESOTA MINING AND MANUFACTURING COMPANY'S PREINSULATED "SCOTCHLOKS". JOINTS NO. 6 AND LARGER WIRE SHALL BE MADE BY PRESSURE TYPE MECHANICAL CONNECTORS. INSULATED WITH THREE LAYERS HAVING MINIMUM 33% TENSILE STRENGTH. TERMINAL CONNECTIONS SHALL BE MADE USING SOLDERLESS SCOTCHLOK PRESSURE TYPE LUGS AND CONNECTORS.

JOINTS IN NO. 8 TO NO. 2/0 WIRE IN DAMP LOCATIONS, EXTERIOR JUNCTION BOXES AND POLE BASES SHALL BE MADE WITH WATER RESISTANT SETSCREW, GEL FILLED CONNECTORS; RAYCHEM GELCAP SL INSULATING SPLICE KIT. JOINTS IN NO. 10 AND SMALLER IN DAMP LOCATIONS, EXTERIOR JUNCTION BOXES AND POLE BASES SHALL BE MADE WITH GEL FILLED WIRE NUTS, IDEAL TWISTER DB PLUS OR BUCHANAN BTS TWIST & SEAL WATER RESISTANT CONNECTORS.

COLOR CODING OF MULTI-WIRE BRANCH CIRCUIT FOR LIGHTING AND OUTLETS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE GROUNDED NEUTRAL SHALL BE IDENTIFIED WHITE FOR 120 VOLT CIRCUITS AND GRAY FOR 277 VOLT CIRCUITS THROUGHOUT, WITHOUT EXCEPTION, BEGINNING AT THE SERVICE ENTRANCE EQUIPMENT. THE IDENTIFIED NEUTRAL SHALL BE INSULATED THROUGHOUT AND GROUNDING ONLY AT THE SERVICE ENTRANCE EQUIPMENT (NOT INDIVIDUAL PANELS).

THE GREEN GROUND WIRE SHALL BE INSTALLED AND KEPT ISOLATED FROM THE WHITE NEUTRAL WIRE.

BRANCH CIRCUITS AND CONTROL CIRCUITS SHALL BE CONNECTED AS NUMBERED ON THE DRAWINGS OR ARE TO MATCH SOME NUMBERED OR CODED SYSTEM. TEST AND PERMANENTLY TAG BY CIRCUIT NUMBER EACH CIRCUIT WIRE AND CIRCUIT WIRE, EXCEPT NEUTRALS, IN PANEL, BEFORE CONNECTING TO PANELS USING NUMBERED TAPES. TAPES SHALL BE SCOTCHCODE EPOXY FILM TAPES. EACH 120 VOLT OR 277 VOLT BRANCH CIRCUITS SHALL BE INSTALLED WITH A DEDICATED NEUTRAL WIRE FROM THE CIRCUIT SOURCE TO THE LOAD CONNECTION, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.

SECTION 26 0526 - ELECTRICAL GROUNDING

A. DESCRIPTION OF WORK:

EXTENT OF ELECTRICAL GROUNDING WORK IS INDICATED BY DRAWINGS AND SCHEDULES.

REQUIREMENTS OF THIS SECTION APPLY TO ELECTRICAL GROUNDING WORK SPECIFIED IN N.E.C. ARTICLE 250.

B. EXECUTION:

INSTALLATION: GROUND ALL CONDUITS, CABINETS, METERS, PANELS, LUMINAIRES AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE.

FLEXIBLE CONNECTIONS TO MOTORS SHALL BE JUMPERED WITH A NO. 14 GREEN EQUIPMENT GROUNDING CONDUIT, OR PER NATIONAL ELECTRICAL CODE TABLE 250-122.

INSTALL A GREEN BONDING JUMPER BETWEEN THE OUTLET BOX AND THE RECEPTACLE GROUNDING TERMINAL ON ALL FLUSH MOUNTED RECEPTACLES.

AN INSULATED GROUND WIRE SHALL BE INSTALLED IN ALL FEEDER, BRANCH CIRCUIT AND LIGHTING CIRCUIT RACEWAYS. GROUND WIRE SHALL BE SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250, TABLE 250-122.

GROUND ALL STEP-DOWN TRANSFORMERS IN ACCORDANCE WITH N.E.C. ARTICLE 250-30 FOR GROUNDING SEPARATELY DERIVED ALTERNATING CURRENT SYSTEMS. THE GROUNDING ELECTRODE SHALL HAVE AN ISOLATED CONNECTION TO THE TRANSFORMER BUS BAR. THE BONDING JUMPER SHALL BE DIRECTLY CONNECTED TO THE TRANSFORMER BUS BAR. THE TRANSFORMER CASE SHALL BE BONDED DIRECTLY TO THE TRANSFORMER BUS BAR. THE GROUNDING ELECTRODE CONDUCTOR SHALL BE PROTECTED WITHIN RIGID METALLIC CONDUIT.

INSTALL BUILDING GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH N.E.C. ARTICLE 250 AND AS REQUIRED BY THE LOCAL INSPECTING AUTHORITY. THE BUILDING FRAMEWORK AND METAL SIDING, UNDERGROUND METAL WATER PIPING, CONCRETE ENCASED ELECTRODE AND OTHER MADE ELECTRODES SHALL BE SUFFICIENTLY BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. CONNECTIONS TO THE METAL UNDERGROUND WATER PIPING SYSTEM SHALL BE MADE ON THE LINE SIDE OF THE WATER METER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A GROUNDING SYSTEM ACCEPTABLE TO THE LOCAL INSPECTING AUTHORITY.

CONTRACTOR SHALL DEMONSTRATE BY TEST THAT THE BUILDING GROUNDING SYSTEM TO EARTH RESISTANCE VALUE IS 10 OHMS OR LESS, UTILIZING A "CLAMP-ON" OR 3 POINT FALL OF POTENTIAL TESTER.

CONTRACTOR SHALL BE ABLE TO DEMONSTRATE BY TEST THAT THE GROUNDING SYSTEM RESISTANCE FROM ANY GROUNDED NON-CURRENT CARRYING CONDUCTOR TO THE ELECTRICAL SERVICE ENTRANCE NEUTRAL/GROUND BONDING CONDUCTOR IS LESS THAN 0.1 OHMS.

SECTION 26 0533 - RACEWAYS

A. DESCRIPTION OF WORK:

EXTENT OF RACEWAY WORK IS INDICATED BY DRAWINGS AND SCHEDULES.

TYPES OF RACEWAYS SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING:

- ELECTRICAL METALLIC TUBING (EMT)
- FLEXIBLE METAL CONDUIT
- INTERMEDIATE METAL CONDUIT
- LIQUID-TIGHT FLEXIBLE METAL CONDUIT
- RIGID METAL CONDUIT
- RIGID NON-METALLIC CONDUIT

B. CONDUIT:

CONDUIT IN STUD PARTITIONS OR INTERIOR BLOCK WALLS BRANCH CIRCUITS ONLY, CONDUIT ABOVE CEILING OR ABOVE THE BOTTOM CHORD OF BAR JOISTS MAY BE ELECTRICAL METALLIC TUBING.

CONDUIT IN UNFINISHED AREAS OF THE PLANT, MECHANICAL EQUIPMENT ROOMS, ELECTRICAL EQUIPMENT ROOMS, CHASES TO BE EMT.

CONDUIT BURIED IN CONCRETE SLAB POURS SHALL BE FULL WEIGHT RIGID GALVANIZED STEEL OR CARLON SCHEDULE 80 PVC OR CARLON SCHEDULE 40 PVC.

FLEXIBLE GALVANIZED STEEL CONDUIT SHALL BE USED FOR "MAKE-UP" CONNECTIONS TO ROTATING MACHINERY (MAXIMUM 24"), EQUIPMENT OR FLUSH LIGHTING LUMINAIRES. FLEXIBLE CONDUIT IN DAMP OR WET LOCATIONS SHALL BE LIQUID TIGHT.

C. EXECUTION:

INSTALLATION:

HOME RUNS FROM PANELS TO FIRST OUTLET BOX ARE SHOWN AS ARROWS. THESE RUNS MAY BE INSTALLED EITHER OVERHEAD OR UNDER THE FLOOR, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE; HOWEVER, A MINIMUM OF 1/2" FOR FLEXIBLE CONDUIT MUST BE MAINTAINED. ALL OTHER CONDUITS SHALL BE 3/4" MINIMUM, UNLESS OTHERWISE NOTED.

CONDUITS CONCEALED UNDER FLOOR SLABS SHALL BE 3/4" MINIMUM, EXTERIOR BELOW GRADE CONDUITS SHALL BE 1" MINIMUM.

NO HORIZONTAL RUNS OF CONDUIT MAY BE INSTALLED IN MASONRY WALLS EXCEPT BY SPECIFIC PERMISSION OF THE ENGINEER.

EXPPOSED CONDUIT WORK SHALL BE KEPT AS INCONSPICUOUS AS POSSIBLE AND SHALL BE LAID OUT IN A NEAT WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO BUILDING STEEL, WITHOUT RUNS DIAGONAL TO THE BUILDING WALLS.

A 1/8" DIAMETER NYLON PULL ROPE SHALL BE INSTALLED IN ALL EMPTY CONDUITS.

A GREEN GROUND WIRE, SIZED PER NATIONAL ELECTRICAL CODE SHALL BE INCLUDED IN ALL CONDUITS AND RACEWAYS.

INSTALL THREE 3/4" SPARE CONDUITS FROM EACH FLUSH PANEL TO ABOVE LAY-IN CEILING IN FRONT OF PANEL WHERE POSSIBLE.

CONDUIT FEEDERS OR HOME RUNS SHALL BE ROUTED FROM FIRST OUTLET BOX OR JUNCTION BOX DIRECT TO APPROPRIATE PANEL. "TANGLE" BOXES OR WIREWAYS SHALL NOT BE INSTALLED ADJACENT TO PANEL FOR THE CONVENIENCES OF TERMINATING CONDUITS.

CONDUITS SHALL NOT BE INSTALLED ON TOP OF JOISTS OR BEAMS WITHIN THE CONVOLUTIONS OF THE METAL DECK. ALL CONDUITS SHALL BE SUPPORTED AGAINST THE BOTTOM OF THE TOP CORD OF THE JOIST. NO CONDUITS SHALL BE FASTENED TO THE BOTTOM CORD OF JOIST.

SECTION 26 0534 - ELECTRICAL BOXES AND FITTINGS

A. DESCRIPTION OF WORK:

TYPES OF ELECTRICAL BOXES AND FITTINGS SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING:

- OUTLET BOXES
- JUNCTION BOXES
- PULL BOXES
- BUSHINGS
- LOOKNUTS
- KNOCKOUT CLOSURES

B. PRODUCTS:

MATERIAL:

SECTION SWITCH BOXES SHALL NOT BE USED.

BOXES FOR FLUSH INSTALLATION OF DEVICES SHALL BE 4" SQUARE, DEPTH AS REQUIRED BY CODE FOR THE NUMBER OF CONDUCTORS, COMPLETE WITH 1-1/2" OR 2" RECTANGULAR PLASTER RINGS, UNIVERSAL S2C50 OR RACO 785. ALL BOXES SHALL BE INSTALLED FLUSH IN FINISHED SECTIONS OF BUILDING. FLUSH BOXES SHALL BE SET BACK IN WALL NOT MORE THAN 1/8". WHERE CONDUITS LARGER THAN 3/4" ARE USED, FOUR 11/16" BOXES WITH 1" PLASTER RINGS, RACO 839 SHALL BE INSTALLED.

RIGID CONDUIT FITTINGS SHALL BE THREADED TYPE THREE-PIECE COUPLINGS (ERIKSON). THREADLESS OR SETSCREW COUPLINGS OR CONNECTORS SHALL NOT BE USED.

THINWALL COUPLINGS AND CONNECTORS SHALL BE STEEL SETSCREW TYPE ONLY.

FLEXIBLE METALLIC COUPLINGS AND CONNECTORS SHALL BE MALLEABLE IRON OR STAMPED STEEL FITTINGS.

DIE-CAST FITTINGS SHALL NOT BE USED.

C. EXECUTION:

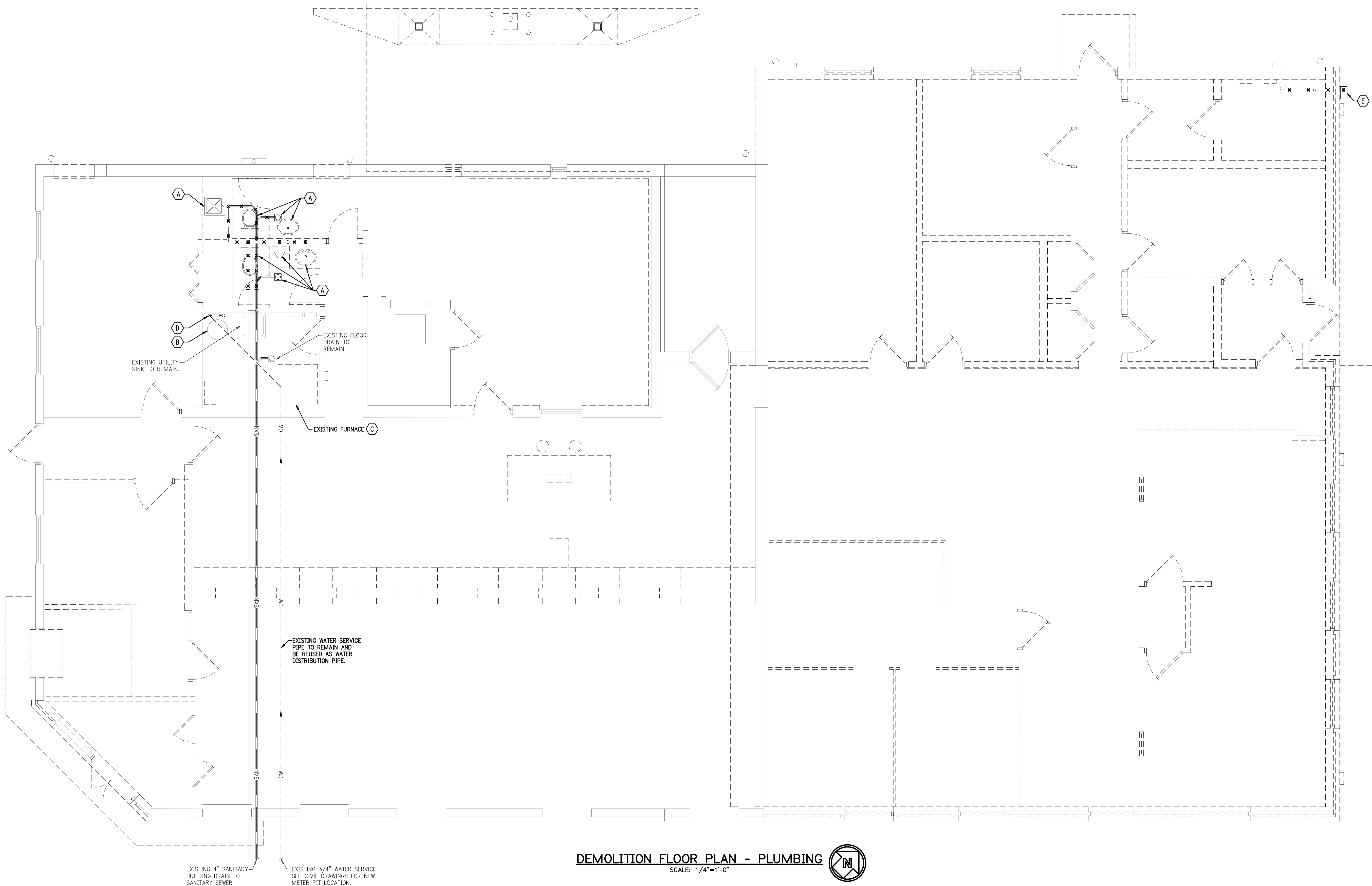
INSTALLATION:

DO NOT INSTALL ANY BOXES BACK-TO-BACK. DO NOT INSTALL BOXES CLOSER TOGETHER THAN 12" IF OUT



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DEMOLITION FLOOR PLAN - PLUMBING
SCALE: 1/4"=1'-0"

- PLAN NOTES:
- REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING. CAP PIPING BEHIND FINISHED SURFACES WERE REMAINING OR BELOW FINISHED FLOOR AND ABANDON IN PLACE.
 - REMOVE EXISTING GAS WATER HEATER AND ASSOCIATED PIPING.
 - EXISTING FURNACE TO BE REMOVED BY THE HVAC CONTRACTOR. DISCONNECT AND REMOVE ALL CONDENSATE DRAIN PIPING AND NATURAL GAS PIPING.
 - REMOVE EXISTING WATER METER AND REMOVE EXISTING DOMESTIC WATER PIPING DOWN TO 1'-0" A.F.F. AND CAP FOR REUSE.
 - COORDINATE REMOVAL OF NATURAL GAS METER WITH MICHIGAN GAS UTILITIES. REMOVE ALL HOUSE PIPING AT THE METER AND THROUGHOUT THE BUILDING COMPLETELY.

- DEMOLITION NOTES:
- THE LOCATION OF ALL EQUIPMENT, FIXTURES, PIPING MAINS AND BRANCH PIPING ARE INTENDED TO SHOW GENERAL AREAS OF WORK. THE PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT, FIXTURE AND PIPING LOCATIONS.
 - THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND PATCHING ALL FINISHED SURFACES REMAINING IN PLACE WHERE REQUIRED DUE TO DEMOLITION OF PLUMBING EQUIPMENT, FIXTURES AND PIPING.
 - REMOVE ALL STORM DRAINAGE SYSTEM ROOF DRAINS AND ASSOCIATED STORM PIPING COMPLETELY. CAP PIPING BEHIND FINISHED SURFACES REMAINING OR BELOW THE FINISHED FLOOR AND ABANDON IN PLACE. COORDINATE LOCATIONS OF ABANDONED STORM BUILDING DRAINS WITH THE CIVIL CONTRACTOR.

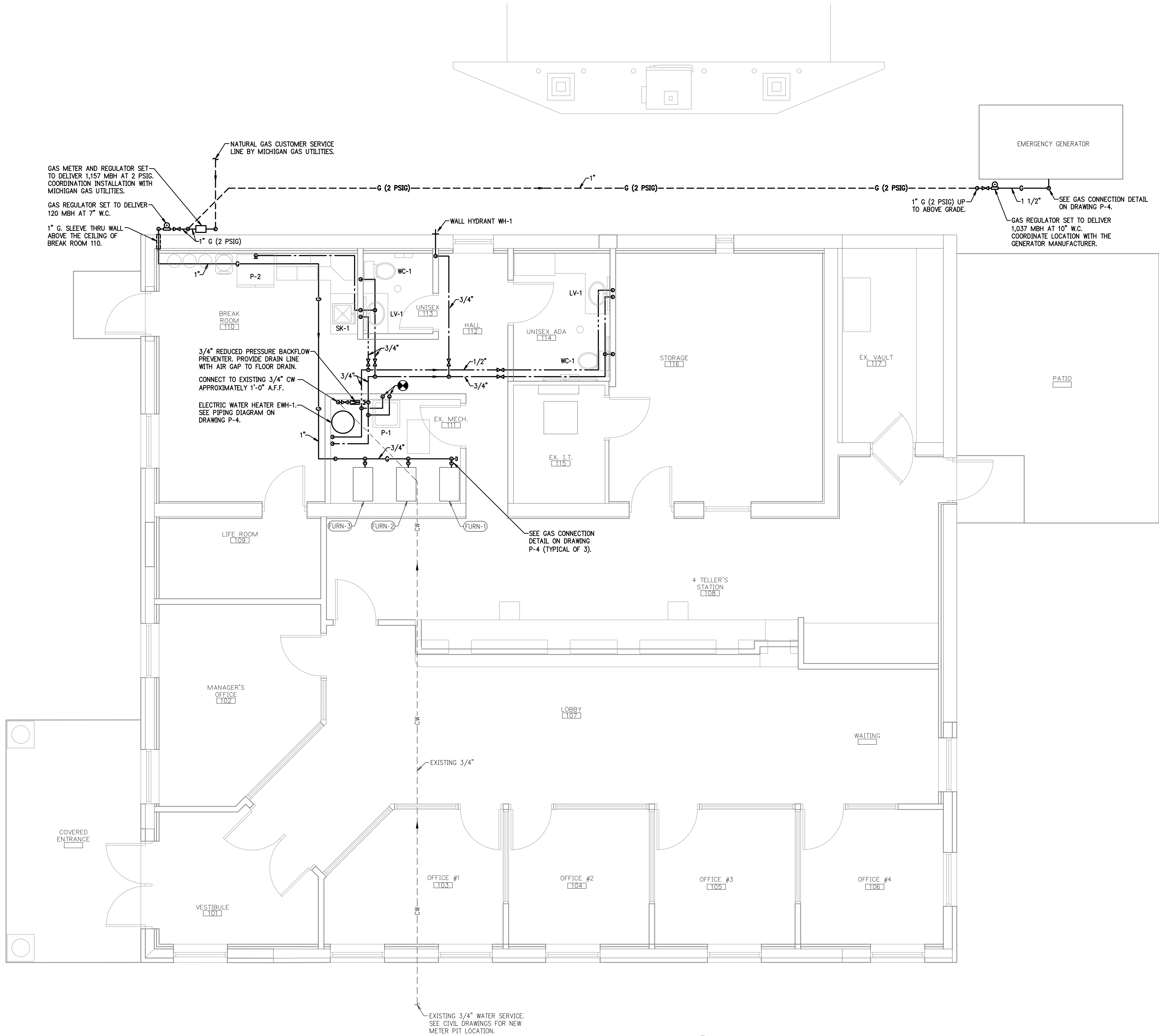
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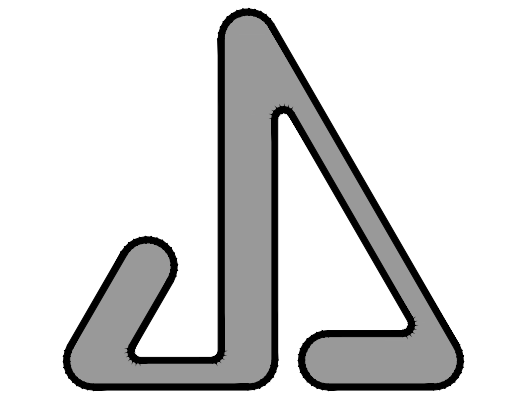
RENOVATIONS & REMODELING FOR:
Monroe
COMMUNITY CREDIT UNION
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14 WINCHESTER STREET
MONROE MI 48161
PROPERTY OWNER CONTACT:
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715 TELEGRAPH ROAD
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DEMOLITION
FLOOR PLAN
PLUMBING

03-06-26	BIDS
DATE:	ISSUED FOR:
DRAWN	BPM
REVIEW'D	JDS
202543	



FLOOR PLAN - PLUMBING - DOMESTIC
SCALE: 1/4"=1'-0"



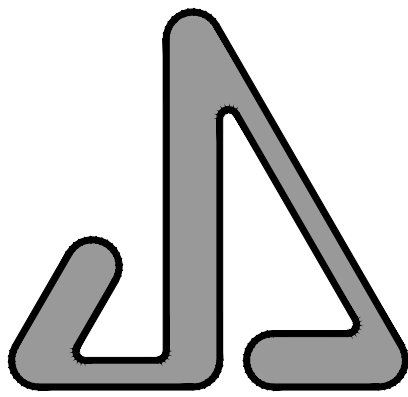
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FLOOR PLAN
PLUMBING –
DOMESTIC

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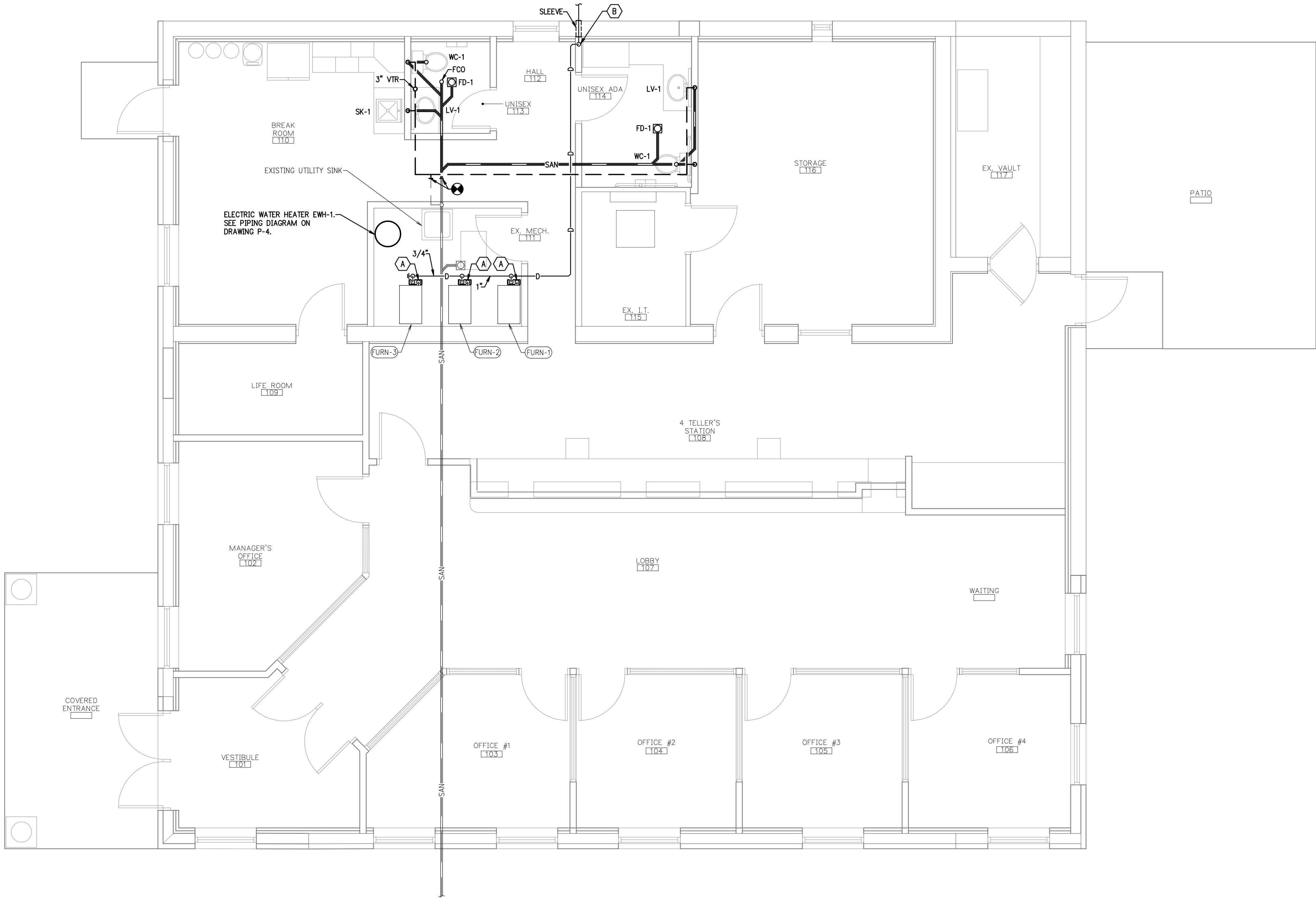
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FLOOR PLAN
PLUMBING –
SANITARY



FLOOR PLAN - PLUMBING - SANITARY

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



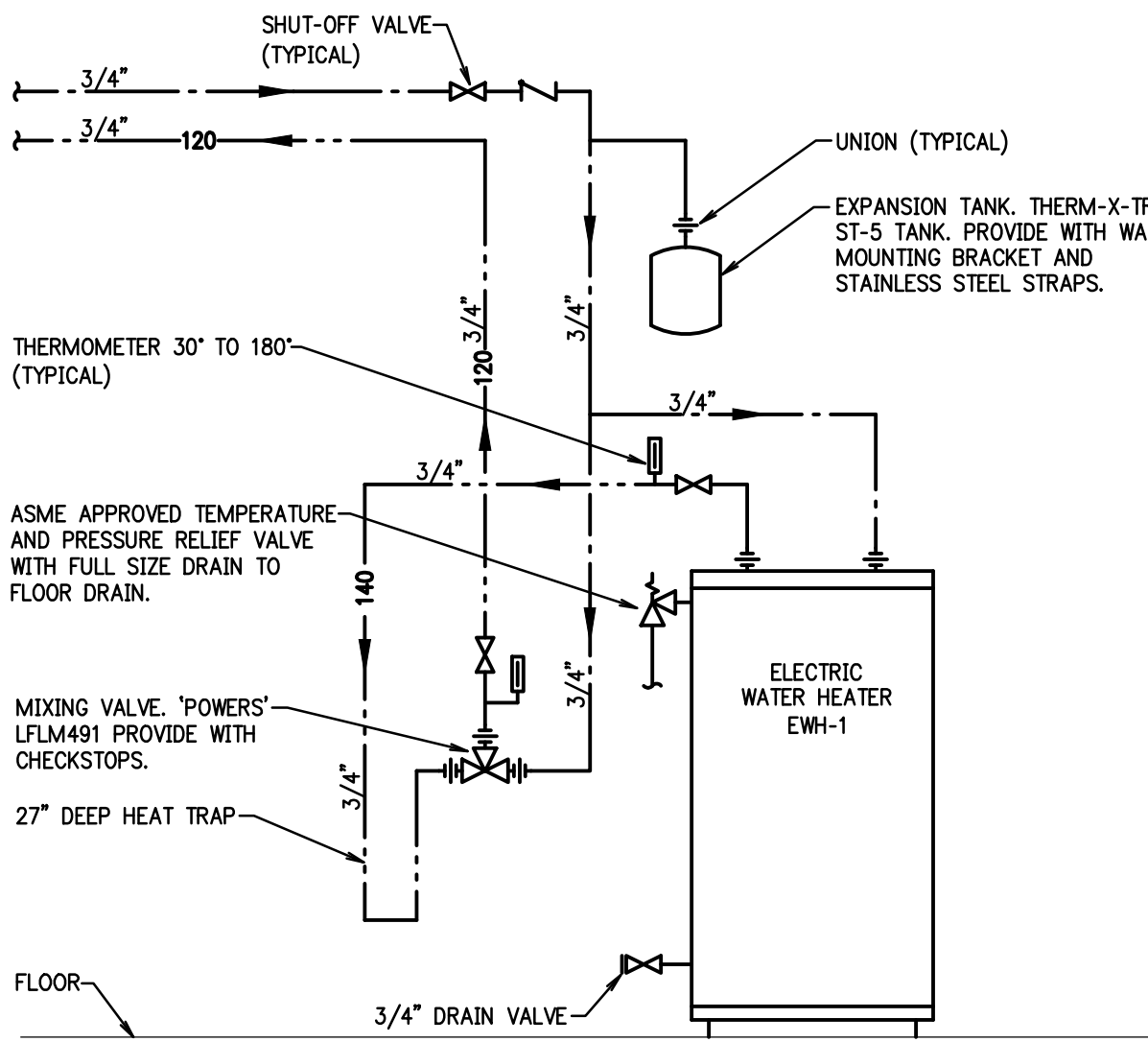
PLAN NOTES:

- A. SEE CONDENSATE TRAP DETAIL ON DRAWING P-3. EXTEND DRAIN TO LITTLE GIANT MODEL VCMA-20 CONDENSATE PUMP (120/1/60). ROUTE DISCHARGE TO 1 1/2" D AS INDICATED.
- B. 1" D DOWN TO 6" A.F.F. INCREASE TO 2" D AND EXTEND BELOW FLOOR AND OUT OF BUILDING THRU FAFOUNDATION TO STORM SEWER SERVING DOWNSPOUTS.

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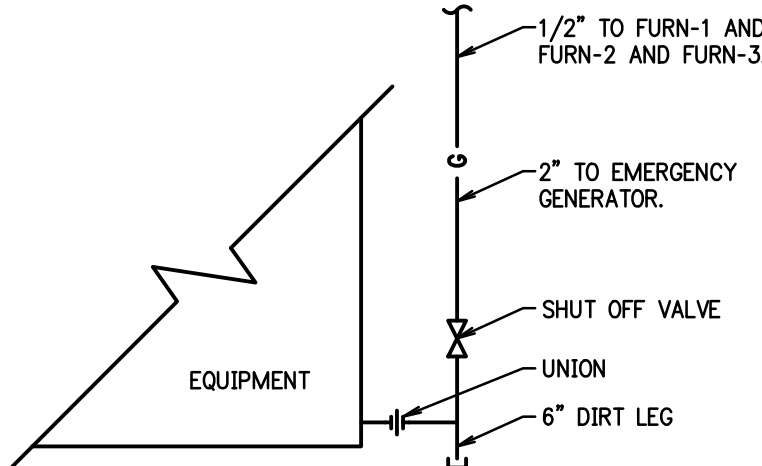
202543

P-3

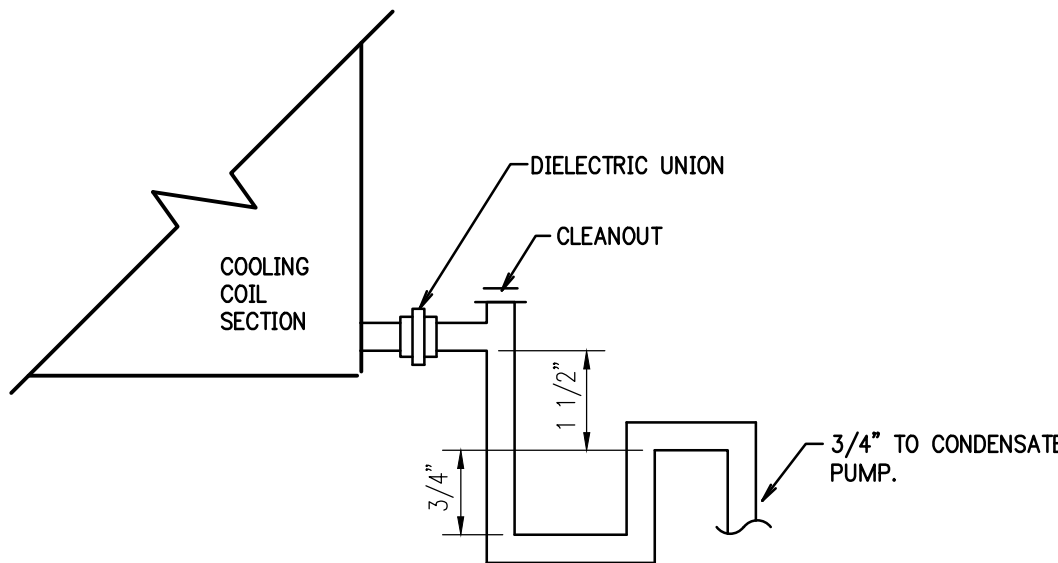


ELECTRIC WATER HEATER EWH-1 DIAGRAM
SCALE: NONE

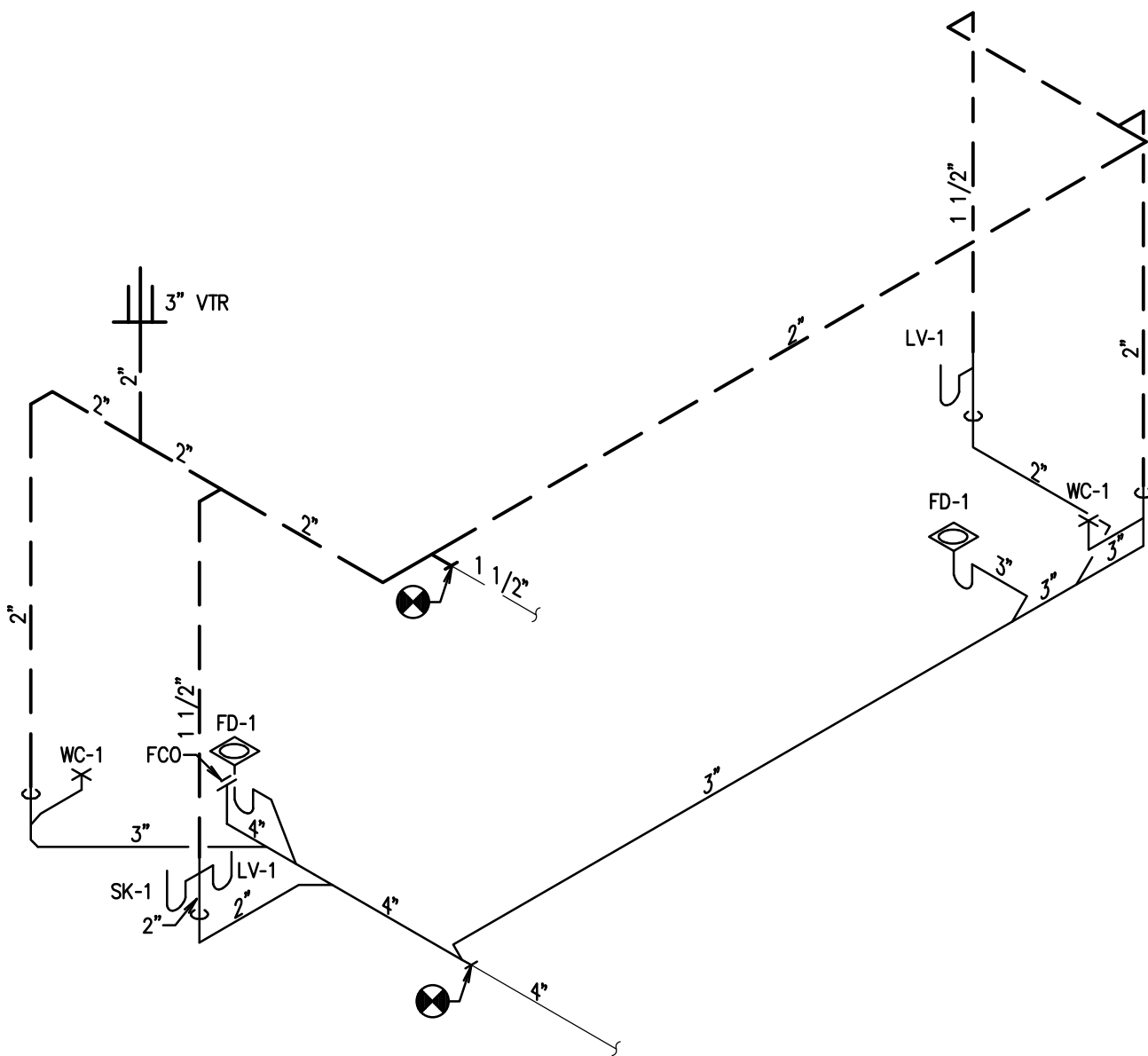
ELECTRIC WATER HEATER										
SCHEDULE BASED ON "LOCHINVAR"										
NO.	DIA.	HEIGHT	STORAGE GALLONS	NO. OF ELEMENTS	KW PER ELEMENT	TOTAL KW	EW T F	LWT F	RECOVERY GPH	POWER
EW-1	19"	46-1/2"	30	2	2.5	2.5	40"	40"	10	208/1/60
MODEL LET-300JF (NON-SIMULTANEOUS OPERATION)										
REMARKS										



GAS CONNECTION DETAIL
FURNACE
SCALE: NONE



CONDENSATE TRAP DETAIL
SCALE: NONE



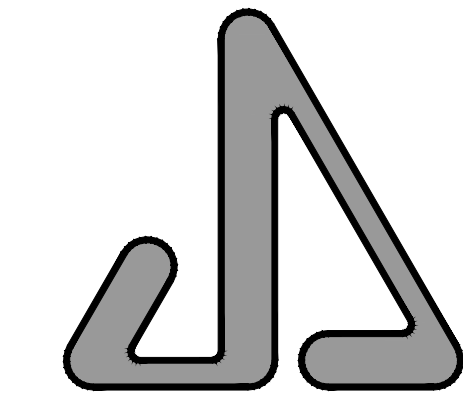
SANITARY PIPING SCHEMATIC
SCALE: NONE

PLUMBING LEGEND

SOIL , WASTE OR SANITARY SEWER - ABOVE FLOOR	SAN	— SAN —
SOIL , WASTE OR SANITARY SEWER - BELOW FLOOR	SAN	— SAN —
VENT	V	— V —
DOMESTIC COLD WATER	CW	— CW —
DOMESTIC HOT WATER	HW	— HW —
DOMESTIC HOT WATER RECIRCULATING	HWR	— HWR —
NATURAL GAS - 1/2 PSIG OR LESS	NG	— NG —
NATURAL GAS - 2 PSIG	G (2 PSIG)	— G (2 PSIG) —
INDIRECT OR CONDENSATE DRAIN	D	— D —
WATER HAMMER ARRESTER (WHA, PDI 'A' - UNLESS OTHERWISE INDICATED)	WHA	⊗
PLUMBING DRAINAGE INSTITUTE 'SIZE'	PDI	
VENT THRU ROOF	VTR	
CLEANOUT PLUG	CO	
FLOOR CLEANOUT	FCO	
WALL CLEANOUT	WCO	
CLEANOUT TO GRADE	COTG	
HOSEBIBB	HB	
WALL HYDRANT	WH	
MIXING VALVE		
SHUTOFF VALVE		
CHECK VALVE		
BALANCING VALVE		
RELIEF VALVE		
THERMOMETER		
PRESSURE GAUGE		

PLUMBING FIXTURE SCHEDULE					
MARK	DESCRIPTION	CW	HW	WASTE	VENT
WC-1	WATER CLOSET - FLOOR SET - TANK TYPE - (ADA) TRIP LEVER ON LEFT SIDE OF TANK	1/2"	---	3"	1 1/2"
LV-1	LAVATORY - DROP IN COUNTERTOP (ADA) WITH ASSE 1070 APPROVED WATER-TEMPERATURE LIMITING DEVICE	1/2"	1/2"	1 1/2"	1 1/2"
SK-1	SINK - SINGLE COMPARTMENT - STAINLESS STEEL (ADA)	1/2"	1/2"	1 1/2"	1 1/2"
FD-1	FLOOR DRAIN WITH BARRIER-TYPE TRAP SEAL PROTECTION DEVICE	---	---	3"	1 1/2"
P-1	EXISTING UTILITY SINK (SEE NOTE 1)	1/2"	1/2"	---	---
P-2	REFRIGERATOR (BY OWNER) (SEE NOTE 2)	1/4"	---	---	---

- PLUMBING FIXTURE SCHEDULE NOTES:
- PROVIDE SHUT-OFF VALVES AND CHECK VALVES ON WATER SUPPLY TO FIXTURE. WATTS SERIES LF7.
 - PROVIDE AND INSTALL COPPER REFRIGERATOR SUPPLY KIT. SMART CHOICE 20' LONG MODEL 5304490717 OR EQUAL. ROUTE PIPE THROUGH CABINETRY FROM SINK SK-1. SECURE PIPE TO CABINETRY TO AVOID DAMAGE.



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P-4

1 OF 1