

SRFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

BID SET



PROJECT INFORMATION

PROJECT DESCRIPTION

SCOPE OF WORK INCLUDES CONSTRUCTING A NEW FIRE APPARATUS MAINTENANCE SHOP ADDITION, APPROXIMATELY 3,000SF. EXISTING OPEN AIR MAINTENANCE AREA AT NORTHWEST CORNER OF THE EXISTING BUILDING WILL BE ENCLOSED. APPROXIMATELY 2,000SF NEW CARPORT (ALTERNATE BID / DEFERRED SUBMITTAL), IS PLANNED AT WHERE EXISTING STORAGE CONTAINERS ARE LOCATED AT NORTHWEST CORNER OF THE PROJECT SITE. OTHER ALTERNATE BID SCOPE INCLUDES REPLACEMENT OF EXISTING ROOF WITH NEW.

SITE ADDRESS

163 VILLAGE COURT
MONROE, WA 98272

SITE ZONING

MIXED USE - NEIGHBORHOOD (MN)

LEGAL DESCRIPTION

LOTS 26 AND 27, INCLUSIVE, MAIN STREET VILLAGE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 49 OF PLATS, PAGES 221 THROUGH 223, INCLUSIVE, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

PARCEL NUMBER(S)

0077630002600

AUTHORITY HAVING JURISDICTION

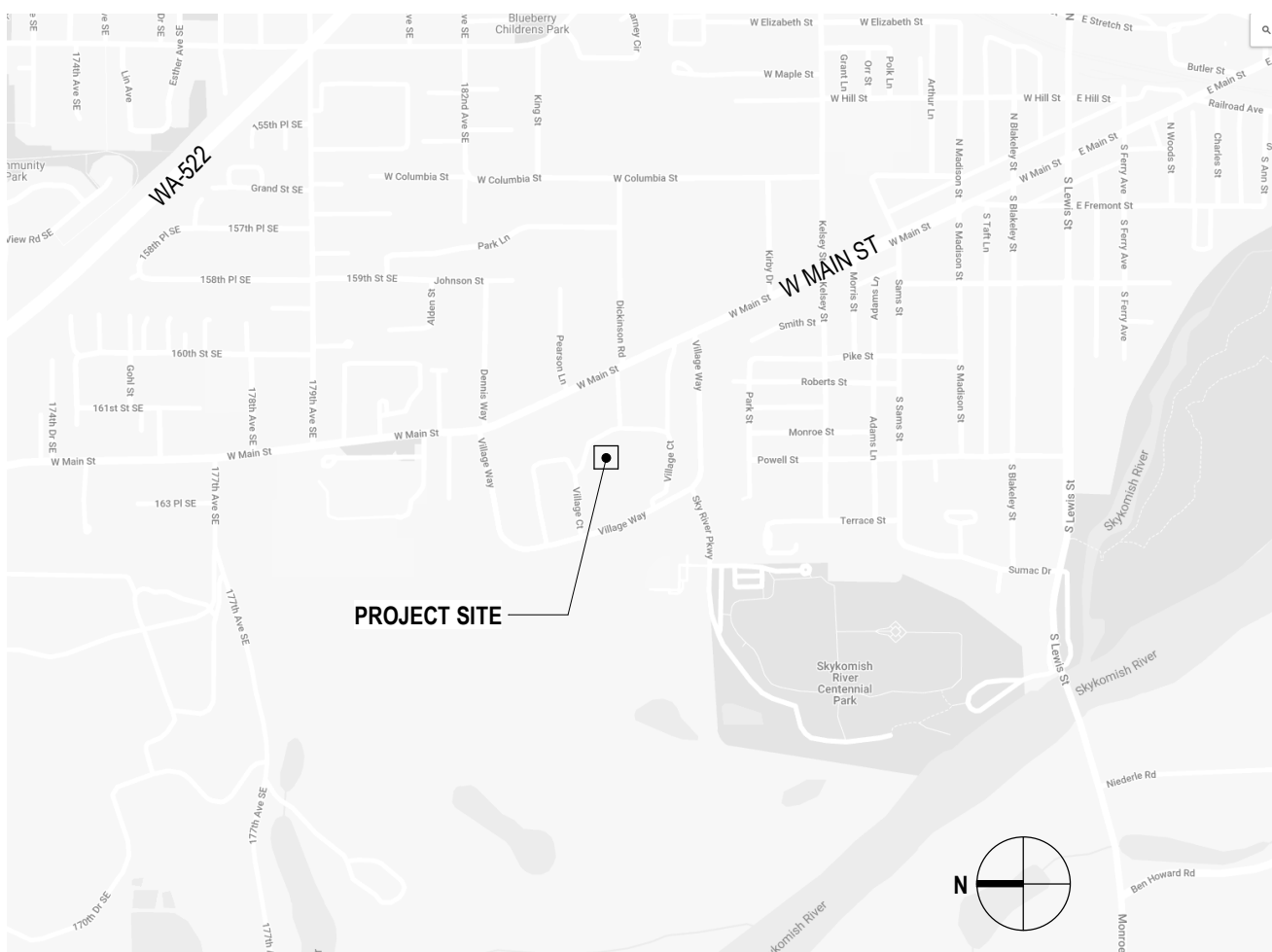
CITY OF MONROE
866 WEST MAIN STREET
MONROE, WA 98272
(360) 794-7400

BUILDING INFORMATION

CONSTRUCTION TYPE: VB
OCCUPANCY GROUP(S): BUSINESS GROUP B
GROSS AREA:
HEIGHT ABOVE GRADE PLANE: TBD

SEE CODE SUMMARY FOR ADDITIONAL INFORMATION.

VICINITY MAP



PROJECT DESIGN TEAM

OWNER

SNOHOMISH REGIONAL FIRE AND RESCUE
163 VILLAGE COURT
MONROE, WA 98272

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PROJECT # 2022073

BID SET

ISSUE DATE 3/22/2024

REVISION SCHEDULE

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
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| | | |

AHJ APPROVAL STAMP

PROJECT
INFORMATION,
VICINITY MAP,
PROJECT DESIGN
TEAM

SHEET #

A00.01

| | | | |
|--------|--|--------|---|
| A | AMP | | - F CONTINUED - |
| AA | ART & ACCESSORIES | FIN | FINISHED) |
| AB | ANCHOR BOLT | FIXT | FIXTURE |
| AC | AIR CONDITIONING | FLASH | FLASHING |
| ACST | ACOUSTICAL) | FLR | FLOOR |
| ACT | ACOUSTIC CEILING TILE | FMF | FLEXIBLE MEMBRANE FLASHING |
| AD | AREA DRAIN | FOB | FACE OF BRICK |
| ADJ | ADJACENT | FOM | FACE OF CONCRETE |
| | ADJUSTABLE) | FOF | FACE OF FINISH |
| | | FOM | FACE OF MASONRY |
| AFF | ABOVE FLOOR FINISH | FOS | FACE OF STUD |
| AHU | AIR HANDLING UNIT | FP | FIREPLACE |
| ALT | ALTERNATE | FRTF | FIBER REINFORCED TREATED WOOD |
| ALUM | ALUMINUM | FRZ | FIRE RETARDANT |
| AP | ACCESS PANEL | FRZ | FIRE RETARDANT TREATED WOOD |
| APPROX | APPROXIMATELY | FS | FULL SIZE |
| ARCH | ARCHITECT(URAL) | FCG | FURNITURE-CASEGOODS |
| ASPH | ASPHALT | FSG | FURNITURE-SOFTGOODS |
| AUTO | AUTOMATIC | FT | FOOT, |
| AUX | AUXILIARY | FEI | FEE |
| AV | AUDIO VISUAL | FTG | FOOTING |
| | | FRUR | FURRING |
| - B - | | - G - | |
| BATH | BATHROOM | G | GROUND |
| BD | BOARD | GA | GAUGE |
| BED | BEDROOM | GALV | GALVANIZED |
| BLDG | BUILDING | GAR | GARAGE |
| BLKG | BLOCKING | GB | GRAB BAR |
| BM | BEAM | GC | GENERAL CONTRACTOR |
| BO | BOTTOM OF | GEN | GENERAL |
| BOB | BOTTOM OF BEAM | GFRG | GLASS FIBER REINFORCED GYPSUM |
| BOD | BOTTOM OF DECK | GI | GALVANIZED IRON |
| BOF | BOTTOM OF FRAMING | GL | GLASS, |
| BOJ | BOTTOM OF JOIST | GLF | GLAZING |
| BTW | BETWEEN | GLU | GLUING FILM |
| BUR | BUILT UP ROOF(ING) | GLULAM | GLUE LAMINATED |
| | | GR | GROSS |
| - C - | | GT | GROUT |
| CAB | CABINET | GWB | GYPSUM WALL BOARD |
| CALC | CALCULATION | GYP | GYPSUM SHEATHING |
| CB | CATCH BASIN | | |
| | CORNER BEAD | | |
| CEM | CEMENT | - H - | |
| CFI | CONTRACTOR FURNISHED & OWNER INSTALLED | H | HEIGHT, |
| CIP | CAST IN PLACE | HB | HIGH |
| | CONCTL JOINT, | HC | HOSE BIB |
| | CONSTRUCTION JOINT | HCR | HOLLOW CORE |
| CL | CENTERLINE | HDR | HEADER |
| CLG | CEILING | HDW | HARDWARE |
| CLO | CLOSE | HDWD | HARDWOOD |
| CLR | CLEAR | HGR | HANGER |
| CNU | CONCRETE MASONRY UNIT | HM | HOLLOW METAL |
| CO | CLEAN OUT | HRL | HANDRAIL |
| COL | COLUMN | HORIZ | HORIZONTAL |
| CONC | CONCRETE | HVC | HOUR(S) |
| CONF | CONFERENCE | HRAC | HEATING, VENTILATION & AIR CONDITIONING |
| CONN | CONNECTION | HW | HOT WATER |
| CONSTR | CONSTRUCTION | HWT | HOT WATER TANK |
| CONST | CONTINUE | | |
| | CONTINUOUS | | |
| COORD | COORDINATE | - I - | |
| CORR | CORRIDOR | IC | IMPACT INSULATION CLASS |
| CP | CEMENT PLASTER | IN | INCHES) |
| CPT | CARPET | INC | INCREASE |
| CS | CONCRETE SEALER | INCL | INCLUDE(D), |
| CSMT | CASEMENT | | INCLUDING |
| CTR | CENTER | INFO | INFORMATION |
| CW | COLD WATER | INSTL | INSTALLATION) |
| | | INSUL | INSULATION |
| | | INT | INTERIOR |
| - D - | | - J - | |
| D | DEEP, | J | JANITOR |
| DBL | DRYER | JBOX | JUNCTION BOX |
| DEMO | DEMOLISH(ED), | JST | JOIST |
| | DEMOLITION | JT | JOINT |
| DEPT | DEPARTMENT | | |
| DET | DETAIL | | |
| DF | DRINKING FOUNTAIN | | |
| DIA | DIAMETER | - K - | |
| DIM | DIMENSION | KD | KILN DRIED |
| DISP | DISPOSAL | KIT | KITCHEN |
| DL | DEAD LOAD | KP | KICK PLATE |
| DN | DOWN | KW | KILOWATT |
| DP | DECORATIVE PANEL | | |
| DR | DOOR, | - L - | |
| | DINING ROOM, | L | LEFT, |
| | DRAIN | | LENGTH, |
| DS | DOWNSPOUT | | LINEK, |
| DW | DISHWASHER | | LONG |
| DWG | DRAWING(S) | LAB | LABORATORY |
| DWR | DRAWER | LAM | LAMINATE(D) |
| | | LAU | LAUNDRY |
| - E - | | LAV | LAVATORY |
| (E) | EXISTING | LB(S) | POUND(S) |
| E | EAST | LD | LIGHTING-DECORATIVE |
| EA | EACH | LDG | LANDING |
| EC | EDGE OF CURB | LF | LINEAL FOOT |
| EE | EACH END | LL | LIVE LOAD |
| EFS | EXTERIOR INSULATION & FINISH SYSTEM | LOC | LOCATION |
| EF | EACH FACE | LP | LIGHTING-PORTABLE |
| EJ | EXPANSION JOINT | LPT | LOW POINT |
| EL | ELEVATION | LR | LIVING ROOM |
| ELEC | ELECTRICAL | LRG | LARGE |
| ELEV | ELEVATOR | LT | LIGHTING(S) |
| EMER | EMERGENCY | LVR | LOUVER |
| ENCL | ENCLOSE(D), | | |
| | ENCLOSURE | | |
| EP | ELECTRICAL PANELBOARD | - M - | |
| EQ | EQUAL | MACH | MACHINE |
| EOP | EQUIPMENT | MAINT | MAINTENANCE |
| EST | ESTIMATE(D) | MATL | MATERIAL |
| EW | EACH WAY | MAX | MAXIMUM |
| EWC | ELECTRIC WATER COOLER | MB | MACHINE BOLT |
| EWI | ELECTRIC WATER HEATER | MBR | MASTER BEDROOM |
| EXP | EXHAUST | MC | MACHINE CABINET |
| EXH | EXPOSED, | MDO | MEDIUM DENSITY OVERLAY |
| EXP | EXPANSION | MECH | MECHANIC(AL) |
| EXT | EXTERIOR | MED | MEDIUM |
| | | MEDS | MEDICINE, |
| | | | MEDICAL |
| - F - | | MEMB | MEMBRANE |
| FA | FIRE ALARM | MEZZ | MEZZANINE |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL | MFR | MANUFACTURER |
| FD | FLOOR DRAIN | MFRREC | MANUFACTURER'S RECOMMENDATION(S) |
| FDC | FIRE DEPARTMENT CONNECTION | MGR | MANAGER |
| FDN | FOUNDATION | MH | MANHOLE |
| FDV | FIRE DEPARTMENT VALVE | MIN | MINIMUM |
| | | | |

| VIEW REFERENCE-- | | --ANNOTATIONS-- | |
|------------------|--|---------------------------------|-------------------------------------|
| | BUILDING SECTION | | BREAK LINE |
| | WALL SECTION, PARTIAL BUILDING SECTION | | ELEVATION LEVEL |
| | DETAIL SECTION | | GRAPHIC SCALE |
| | EXTERIOR ELEVATION | | GRID LINE |
| | INTERIOR ELEVATION | | NORTH ARROW |
| | ENLARGED PLAN, DETAIL PLAN | | REVISION CLOUD W/ TAG |
| | | | SPOT ELEVATION |
| --LINE STYLES-- | | --CONSTRUCTION PHASE-- | |
| | BUILDING SETBACK LINE | | EXISTING ELEMENT TO REMAIN |
| | CENTERLINE | | DEMOLITION ELEMENT |
| | CLEARANCE | | NEW CONSTRUCTION ELEMENT |
| | ELEMENT BEYOND | | |
| | HIDDEN ELEMENT | | |
| | MATCH LINE | | |
| | OVERHEAD ELEMENT | | |
| | PROPERTY LINE | | |
| --TAGS-- | | --MATERIAL SYMBOLS & PATTERNS-- | |
| | CEILING TAG | | ALUMINUM |
| | DOOR TAG, CASIED OPENING TAG | | BATT INSULATION |
| | FINISH MATERIAL TAG | | BLOCKING, SHIM |
| | FLOOR TAG | | BRICK (PLAN VIEW) |
| | FURNITURE, FIXTURE, EQUIPMENT TAG | | CONCRETE |
| | GLAZING TAG | | CMU (PLAN VIEW) |
| | KEYNOTE | | CONTINUOUS WOOD FRAMING |
| | ROOF TAG | | EARTH BELOW GRADE |
| | ROOM TAG | | GLASS (SECTION VIEW) |
| | STOREFRONT TAG | | GRAVEL |
| | WALL TAG | | GYPSUM WALL BOARD, GYPSUM SHEATHING |
| | WINDOW TAG | | OUT OF PROJECT SCOPE |
| | | | PLYWOOD |
| | | | RIGID INSULATION |
| | | | STEEL |
| | | | WOOD |

- DRAWINGS HAVE BEEN PREPARED ON AN ORIGINAL SHEET SIZE OF 24" X 36".
- COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE ARCHITECT FOR CLARIFICATION.
- OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
- REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT AND OWNER FOR CLARIFICATION PRIOR TO BIDDING OR PERFORMING ANY WORK IN QUESTION.
- SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT AND OWNER FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION. SEE PROJECT SPECIFICATIONS.
- OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
- GC TO COORDINATE FURNITURE, SIGNAGE, GRAPHICS, TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS WITH ARCHITECT, OWNER, AND OWNER'S VENDORS TYPICAL. NOTIFY OWNER AND ARCHITECT OF COORDINATION ISSUES PRIOR TO FABRICATION AND INSTALLATION.
- MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY.
- DO NOT SCALE DRAWINGS. THE WRITTEN DIMENSIONS GOVERN. IN THE CASE OF A CONFLICT, NOTIFY THE ARCHITECT FOR CLARIFICATION.
- PARTITIONS ARE DIMENSIONED FROM FACE OF STUD TO FACE OF STUD, UNLESS OTHERWISE NOTED. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESS OF FINISHES.
- COORDINATE AND PROVIDE BACKING FOR MILLWORK AND EQUIPMENT ITEMS AS ATTACHED, MOUNTED OR FLOOR TO WALLS OR CEILINGS.
- DOORS SHALL BE TRIMMED AT THRESHOLD TO PROVIDE 1/4" MIN., 3/4" MAX, CLEARANCE (UNO) ABOVE FLOOR FINISH MATERIAL TO ALLOW FOR FULL DOOR SWING.
- OPENING FORCE FOR INTERIOR SIDE-SWINGING DOORS WITHOUT CLOSERS SHALL NOT EXCEED A 5 POUND FORCE. FOR OTHER SIDE-SWINGING, SLIDING AND FOLDING DOORS, DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15 POUND FORCE APPLIED TO THE LATCH SIDE.
- DRAWINGS ARE THE PROPERTY OF RICE FERGUS MILLER AND HAVE BEEN PREPARED FOR THE USE IN THE EXECUTION OF THE ENCLOSED PROJECT. USE OR REPRODUCTION FOR AN OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF RICE FERGUS MILLER IS PROHIBITED.

| | |
|----------------------------|--|
| GENERAL | |
| A00.01 | PROJECT INFORMATION, VICINITY MAP, PROJECT DESIGN TEAM |
| A00.02 | DRAWING INDEX, GENERAL INFORMATION |
| A00.03 | CODE SUMMARY |
| A01.01 | LIFE SAFETY PLAN - LEVEL 1 |
| A02.01 | AIR BARRIER |
| A03.01 | ASSEMBLY TYPES |
| CIVIL | |
| V-101 | EXISTING CONDITIONS PLAN |
| CD101 | SITE DEMOLITION AND TESC PLAN |
| CD102 | SITE DEMOLITION AND TESC PLAN |
| CU101 | SITE UTILITY PLAN |
| CP101 | SITE PAVEMENT AND LAYOUT PLAN |
| CP102 | SITE PAVEMENT AND LAYOUT PLAN |
| C-501 | DETAILS |
| ARCHITECTURAL | |
| A11.01 | SITE PLAN |
| A11.02 | CARPART PLANS & DETAILS - ALTERNATE BID |
| A20.01 | DEMOLITION FLOOR PLAN - LEVEL 1 |
| A22.01 | FLOOR PLAN - LEVEL 1 |
| A24.01 | REFLECTED CEILING PLAN - LEVEL 1 |
| A25.01 | ROOF PLAN |
| AS1.01 | EXTERIOR ELEVATIONS |
| AS2.01 | BUILDING SECTIONS |
| AS3.01 | WALL SECTIONS |
| AS3.02 | WALL SECTIONS |
| AS4.01 | INTERIOR ELEVATIONS |
| AS4.02 | INTERIOR ELEVATIONS |
| A60.01 | DOOR, STOREFRONT, FINISH LEGEND & ROOM SCHEDULES |
| A60.02 | DOOR & STOREFRONT DETAILS |
| A60.03 | EXTERIOR DETAILS |
| A60.05 | EXTERIOR DETAILS |
| A72.01 | INTERIOR DETAILS |
| A81.01 | EQUIPMENT PLAN - LEVEL 1, EQUIPMENT SCHEDULE |
| STRUCTURAL | |
| S00.01 | GENERAL STRUCTURAL NOTES |
| S00.02 | GENERAL STRUCTURAL NOTES |
| S00.03 | GENERAL STRUCTURAL NOTES |
| S00.04 | GENERAL STRUCTURAL NOTES |
| S00.05 | CBC - SPECIAL INSPECTION SCHEDULES |
| S00.06 | SPECIAL INSPECTION SCHEDULES |
| S00.07 | ABBREVIATIONS & SYMBOLS |
| S00.08 | ROOF SNOW DRIFT LOADING |
| S21.01 | FOUNDATION PLAN |
| S21.02 | ROOF FRAMING PLAN |
| S50.01 | TYPICAL CONCRETE DETAILS |
| S50.02 | TYPICAL CONCRETE DETAILS |
| S50.03 | FOUNDATION DETAILS |
| S50.21 | TYPICAL CMU DETAILS |
| S50.31 | TYPICAL STEEL DETAILS |
| S50.51 | TYPICAL WOOD DETAILS |
| S50.52 | TYPICAL WOOD DETAILS |
| S50.53 | TYPICAL WOOD DETAILS |
| S50.54 | TYPICAL WOOD DETAILS |
| S50.55 | WOOD DETAILS AND SECTIONS |
| S50.56 | ROOF DETAILS |
| S50.57 | ROOF DETAILS |
| S50.58 | WOOD SHEARWALL SCHEDULES AND DETAILS |
| S50.59 | WOOD SHEARWALL DETAILS |
| MECHANICAL | |
| M00.01 | COVER SHEET |
| M00.02 | NOTES AND SCHEDULES |
| M00.03 | SCHEDULES |
| M20.01 | DEMOLITION FLOOR PLAN |
| M22.01 | FLOOR PLAN |
| M22.02 | ROOF PLAN |
| M23.01 | MECHANICAL SECTIONS |
| M30.01 | DETAILS |
| M30.02 | DETAILS |
| M30.03 | DETAILS |
| M30.04 | DETAILS |
| PLUMBING | |
| P00.01 | COVER SHEET |
| P00.02 | NOTES AND SCHEDULES |
| P20.01 | DEMOLITION FLOOR PLAN |
| P20.02 | DEMOLITION MEZZANINE PLAN |
| P20.03 | DEMOLITION ROOF PLAN |
| P22.00 | FOUNDATION PLAN |
| P22.01 | FLOOR PLAN |
| P22.02 | MEZZANINE PLAN |
| P22.03 | ROOF PLAN |
| P23.01 | PLUMBING SECTIONS |
| P30.01 | DETAILS |
| P30.02 | DETAILS |
| P30.03 | DETAILS |
| ELECTRICAL | |
| E00.01 | COVER SHEET |
| E00.02 | PROJECT NOTES |
| E00.03 | ONE-LINE DIAGRAM & LOAD CALCULATIONS |
| E00.04 | EQUIPMENT AND PANEL SCHEDULES |
| E00.05 | LIGHTING SCHEDULES |
| E10.01 | SITE PLAN - ELECTRICAL |
| E10.05 | SITE PLAN - PARKING CANOPY SCOPE - ELECTRICAL |
| E20.01 | DEMOLITION FLOOR PLAN |
| E20.02 | DEMOLITION MEZZANINE PLAN |
| E22.01 | POWER FLOOR PLAN |
| E22.02 | MECHANICAL POWER FLOOR PLAN |
| E22.03 | MECHANICAL POWER ROOF PLAN |
| E23.01 | LOW-VOLTAGE SYSTEMS FLOOR PLAN |
| E33.01 | LIGHTING PLAN |
| TOTAL NUMBER OF SHEETS: 93 | |

SPECIAL INSPECTIONS

NON-STRUCTURAL SPECIAL INSPECTIONS AND TESTS (CHAPTER 17) & WSEC STATEMENT OF SPECIAL INSPECTIONS FOR GENERAL TRADES, MECHANICAL, AND ELECTRICAL SYSTEMS

1. SPECIAL INSPECTIONS SHALL BE PROVIDED PER THE REQUIREMENTS OF THE IBC AND REFERENCED STANDARDS.

2. REFER TO STRUCTURAL DRAWINGS FOR SPECIAL INSPECTION REQUIREMENTS OF STRUCTURAL SYSTEMS.

3. TESTING AND SPECIAL INSPECTION REPORTS PREPARED BY THE SPECIAL INSPECTOR SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, AND OWNER ON A DAILY BASIS WHENEVER TESTING OR SPECIAL INSPECTIONS ARE PERFORMED.

| SPECIAL INSPECTIONS AND TESTS | | | | | | | | |
|-------------------------------|--|--------------------------|--|--------------------|------------------------|----------|--|-----------------------|
| APPLICABLE TO PROJECT (Y/N) | SYSTEM | REFERENCE 2018 IBC, UNO | VERIFICATION AND INSPECTION | INSPECTION METHODS | | | NOTES AND EXCEPTIONS | TYPICAL DIVISIONS |
| | | | | CONTINUOUS | TESTING | PERIODIC | | |
| Y | WIND OR SEISMIC-RESISTING COMPONENTS | 1704.4 | CONTRACTORS STATEMENT OF RESPONSIBILITY FOR SPECIAL INSPECTION | NO | NO | YES | REQUIRED FOR EACH CONTRACTOR RESPONSIBLE FOR CONSTRUCTION OF WIND OR SEISMIC-RESISTING SYSTEMS OR COMPONENTS. | VARIOUS |
| N | EXTERIOR CLADDING AND VENEER | 1705.12.5 | ERECTION AND FASTENING | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE D, E OR F. EXCEPTIONS (REFERENCE 1705.11): 1. SYSTEMS <30 FEET ABOVE GRADE OR WALKING SURFACE. 2. CLADDING OR VENEER <5 PSF. | VARIOUS |
| N | EXTERIOR NON-LOAD BEARING PARTITIONS | 1705.12.5 | ERECTION AND FASTENING | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE D, E OR F. EXCEPTIONS (REFERENCE 1705.11): 1. SYSTEMS <30 FEET ABOVE GRADE OR WALKING SURFACE. | VARIOUS |
| N | INTERIOR VENEER | 1705.12.5 | ERECTION AND FASTENING | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE D, E OR F. EXCEPTIONS (REFERENCE 1705.11): 1. SYSTEMS <30 FEET ABOVE GRADE OR WALKING SURFACE. 2. VENEER <5 PSF. | VARIOUS |
| N | INTERIOR NON-LOAD BEARING PARTITIONS | 1705.12.5 | ERECTION AND FASTENING | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE D, E OR F. EXCEPTIONS (REFERENCE 1705.11.5): 1. SYSTEMS <30 FEET ABOVE GRADE OR WALKING SURFACE. 2. INTERIOR NON-LOAD BEARING WALLS <15 PSF. | VARIOUS |
| N | EIFS SYSTEMS | 1705.16 | INSTALLATION | NO | NO | YES | EXCEPTIONS (REFERENCE 1705.15): 1. EIFS SYSTEMS OVER WRB WITH DRAINAGE TO EXTERIOR. 2. EIFS SYSTEMS OVER MASONRY OR CONCRETE. | 07 |
| N | WATER-RESISTIVE BARRIER COATING IN EIFS SYSTEMS | 1705.16.1 | INSTALLATION | NO | NO | YES | REQUIRED FOR WATER-RESISTIVE BARRIER COATINGS COMPLY WITH ASTM E 2570 WHEN INSTALLED OVER A SHEATHING SUBSTRATE. | 07-09 |
| N | SPRAYED FIRE-RESISTANT MATERIALS | 1705.14 | INSTALLATION | NO | YES | YES | 1. SURFACE PREPARATION INSPECTED PRIOR TO APPLICATION (1705.14.2). 2. INSPECTION AND TESTING AFTER ALL OTHER SYSTEM ROUGH-IN COMPLETED (1705.14). 3. CONDITION OF SUBSTRATES (1705.14.1(1)). 4. MEASURE THICKNESS (1705.14.1(2)). 5. DENSITY TESTING (1705.14.1(3)). 6. BOND STRENGTH TESTING (1705.14.1(4)). 7. CONDITION OF FINISHED APPLICATION (1705.14.1(5)). | 07 |
| N | MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS | 1705.15 | INSPECTION | NO | YES | YES | INSPECTION PER AWC1 12-B | 07-09 |
| N | FIRE-RESISTANT PENETRATIONS AND JOINTS | 1705.17 | INSPECTION | NO | NO | YES | REQUIRED FOR: 1. HIGH-RISE CONSTRUCTION (REFERENCE SECTION 403) 2. BUILDINGS OF RISK CATEGORY III OR IV PER TABLE 1604.5 | 07 |
| N | GLAZING IN CURTAINWALLS AND STOREFRONT | ASCE 7-10 11.A.1.3.9 (3) | ERECTION | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE D, E OR F. EXCEPTIONS (REFERENCE ASCE 7-10 SECTION 11.A.1.3.9 (3): 1. SYSTEMS <30 FEET ABOVE GRADE OR WALKING SURFACE. | 08 |
| N | INTERIOR GLAZED PARTITION | ASCE 7-10 11.A.1.3.9 (3) | ERECTION | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE D, E OR F. EXCEPTIONS (REFERENCE ASCE 7-10 SECTION 11.A.1.3.9 (3): 1. SYSTEMS <30 FEET ABOVE GRADE OR WALKING SURFACE. | 08 |
| Y | SUSPENDED CEILING GRIDS | ASCE 7-10 11.A.1.3.9 (2) | INSTALLATION | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE D, E OR F. | 09 |
| N | ACCESS FLOORING | 1705.12.5.1 | ANCHORAGE | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE D, E OR F. | 10 |
| N | STORAGE RACKS | 1705.12.7 | ANCHORAGE | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE D, E OR F FOR STORAGE RACKS GREATER THAN 8 FT IN HEIGHT. | 10, 12 |
| N | SEISMIC ISOLATION SYSTEMS AND ENERGY DISSIPATION DEVICES | 1705.12.8 | FABRICATION AND INSTALLATION | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE B, C, D, E OR F. | 13 |
| N | VIBRATION ISOLATION SYSTEMS | 1705.12.6(5) | INSTALLATION AND ANCHORAGE | NO | NO | YES | APPLICABLE FOR SEISMIC ZONE C, D, E OR F | VARIOUS |
| N | PIPING SYSTEMS AND MECHANICAL UNITS CARRYING HAZARDOUS MATERIALS | 1705.12.6(3) | INSTALLATION AND ANCHORAGE | NO | NO | YES | SEISMIC ZONE C, D, E OR F. | 22,23,40-48 |
| N | DUCTWORK CARRYING HAZARDOUS MATERIALS | 1705.12.6(4) | INSTALLATION AND ANCHORAGE | NO | NO | YES | SEISMIC ZONE C, D, E OR F. | 23, 40-48 |
| Y | SMOKE CONTROL SYSTEMS | 1705.18 | INSTALLATION AND TESTING | NO | YES | NO | 1. PRIOR TO CONCEALMENT: DUCTWORK LEAKAGE TESTING AND RECORD DEVICE LOCATIONS 1705.18 (1) 2. PRIOR TO OCCUPANCY: PRESSURE, FLOW, DETECTION AND CONTROL TESTING 1705.18 (2) | 21, 23, 25, 27, 28 |
| Y | ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS | 1705.12.6(1) | ANCHORAGE | NO | NO | YES | SEISMIC ZONE C, D, E OR F. | 26, 48 |
| N | ELECTRICAL EQUIPMENT | 1705.12.6(2) | ANCHORAGE | NO | NO | YES | SEISMIC ZONE E AND F | 25, 26, 27, 28 |
| Y | BUILDING ENVELOPE AIR BARRIER | WSEC C402.5.1.2 | AIR LEAKAGE RATE | NO | YES AT BLDG COMPLETION | NO | SEE C402.5.1.2.1 - C402.5.8 FOR REQUIREMENTS; IF TEST FAILS, FOLLOW WITH VISUAL INSPECTION. SEAL LEAKS TO THE EXTENT PRACTICAL AND SUBMIT REPORT OF CORRECTIVE ACTION. | SEE AIR BARRIER SHEET |

ENERGY CODE SUMMARY

CLIMATE ZONES (TABLE 301.1)

4C SNOHOMISH

COMMERCIAL ENERGY EFFICIENCY (CHAPTER 4)

EMERGENCY VEHICLE MAINTENACE/REPAIR FACILITY

OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD (TABLE C402.1.3)

ROOFS, INSULATION ENTIRELY ABOVE DECK: R-38CI
[NOTE]
• ROOF R-VALUE UPGRADED FOR C406.10: R-50 CI

WALLS ABOVE GRADE, WOOD FRAMED: R-20+3.8CI STD
[NOTE]
• WALL R-VALUE UPGRADED FOR C406.10: R-25+10CI STD

SLAB-ON-GRADE FLOORS, UNHEATED SLABS: R-10 FOR 24" BELOW
• SEE ASSEMBLY TYPES FOR PROPOSED R-VALUE

BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS (TABLE C402.4)

SITE-BUILT FENESTRATION PRODUCTS (STOREFRONT WINDOW): U-0.38

ENTRANCE DOORS: U-0.60

ALL OTHER VERTICAL FENESTRATION: U-0.30
[NOTE]
• U-VALUE UPGRADED FOR C406.10: U-0.13

PROPOSED SHGC: 0.33
[NOTE]
• TRIPLE PANE GLAZING

MAXIMUM AREA (SECTION C402.4.1)

TOTAL BUILDING FENESTRATION AREA SHALL NOT EXCEED 30% OF THE TOTAL BUILDING GROSS ABOVE-GRADE WALL AREA.
[NOTES]
• PROVIDED VERTICAL FENESTRATION: STOREFRONT AREA X QUANTITY = (48 SF X 4) + (32 SF X 2) = 256 SF
• PROVIDED VERTICAL FENESTRATION / WALL = 256 SF / 5,877 SF = 0.044 = 4.4%
SEE AIR BARRIER SHEET FOR PROPOSED FENESTRATION AREA

SECTION C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS

THE FOLLOWING REQUIREMENTS SHALL BE MET:
2. REDUCED LIGHTING POWER IN ACCORDANCE WITH SECTION C406.3
10. ENHANCED ENVELOPE PERFORMANCE IN ACCORDANCE WITH SECTION C406.10c

SECTION C411 SOLAR READINESS

MINIMUM AREA OF SOLAR ZONE SHALL BE 40% OF ROOF AREA.
[NOTES]
• TOTAL ROOF AREA OF ADDITION = 3,244 SF
• MINIMUM ARE REQUIRED = 3,244 SF X .4 = 1,298 SF
• SOLAR ZONE PROVIDED = 20' X 65' = 1,300 SF
• SEE ROOF PLAN FOR ADDITIONAL INFORMATION.

BUILDING CODE SUMMARY, CONTINUED

CONSTRUCTION TYPE (CHAPTER 6)

- TYPE VB
- [NOTES]
- MATCHES EXISTING CONSTRUCTION

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENT (TABLE 601)

- PRIMARY STRUCTURAL FRAME: 0 HOURS
- EXTERIOR BEARING WALLS: 0 HOURS
- INTERIOR BEARING WALLS: 0 HOURS
- NON-BEARING ALLS: 0 HOURS
- FLOOR CONSTRUCTION: 0 HOURS
- ROOF CONSTRUCTION: 0 HOURS

FIRE AND SMOKE PROTECTION (CHAPTER 7)

AUTOMATIC SPRINKLER SYSTEM PROVIDED THROUGHOUT BUILDING PER SECTION 903

- FIRE BARRIER (SECTION 707)
[NOTES]
 - EXISTING CMU WAL SEPARATING EXISTING MAINTENANCE BAYS & EXISTING APPARATUS BAYS WILL SERVE AS THE OCCUPANCY SEPARATION WALL (1 HOUR FIRE BARRIER)
 - SEE A01.01 LIFE SAFETY PLAN FOR ITS LOCATION AND KEY NOTE 1.

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.13)

GROUP B WITH SPRINKLER SYSTEM, CLASS C FOR ROOMS AND ENCLOSED SPACES.
SEE SPECIFICATIONS FOR FINISH CLASSIFICATION

OCCUPANT LOAD (SECTION 1004)

SEE LIFE SAFETY PLAN AND OCCUPANT LOAD CHART

MEANS OF EGRESS SIZING (SECTION 1005)

SEE LIFE SAFETY PLAN AND DOOR INFORMATION

NUMBER OF EXITS AND EXIT ACCESS DOORWAYS (SECTION 1006)

Example: 2 EXITS REQUIRED

EXIT ACCESS TRAVEL DISTANCE (SECTION 1017)

GROUP B WITH SPRINKLER SYSTEM. 300 FT

ACCESSIBILITY (CHAPTER 11)

Include as needed

EXTERIOR WALLS (CHAPTER 14)

Include as needed

PLUMBING SYSTEMS (CHAPTER 29)

| TABLE 2902.1 MIN. NUMBER OF REQUIRED PLUMBING FIXTURES | | | | | |
|--|----------------------------|---------------------------------|--------------------------------|--------------------------|--|
| OCCUPANCY | A-3 | B | R-3 | S-2 | |
| DESCRIPTION | ASSEMBLY SPACES WITHOUT... | BUSINESS | FIRE FIGHTER'S LIVING QUARTER. | STORAGES, APPARATUS BAYS | |
| OCCUPANT LOAD -EXISTING | 119 | 87 | 18 | 63 | |
| OCCUPANT LOAD -ADDITION | 0 | 5 | 0 | 16 | |
| O.L. SUB TOTAL | 119 | 92 | 18 | 79 | |
| O.L. TOTAL | | 308 | | | |
| O.L. PER GENDER | | | | | |
| MALE | 59.5 | 46 | 9 | 39.5 | |
| FEMALE | 59.5 | 46 | 9 | 39.5 | |
| WATER CLOSET CALC | MALE 1/125 FEMALE 1/65 | O.L.<=50, 1/25 O.L.>50,1/50 | 1/10 | 1/100 | |
| WATER CLOSET REQUIRED | MALE 0.48 FEMALE 0.92 | 2.84 | 1.80 | 0.79 | |
| WC REQUIRED TOTAL | | 7 | | | |
| EXISTING W/C PROVIDED | | 9 | | | |
| EXISTING URINAL PROVIDED | | 3 | | | |
| LAVATORIES CALC | 1/200 | O.L.<=80, 1/40 O.L.>80, 1/80 | 1/10 | 1/100 | |
| LAVATORIES REQUIRED | 0.60 | 2.15 | 1.80 | 0.79 | |
| LAVATORIES REQD TOTAL | | 6 | | | |
| EXISTING LAV PROVIDED | | 11 | | | |
| TUB / SHOWER CALC | - | - | 1/8 | - | |
| TUB / SHOWER REQUIRED | 0 | 0 | 2.25 | 0 | |
| T / S REQUIRED TOTAL | | 3 | | | |
| EXISTING SHOWER PROVIDED | | 7 | | | |
| DRINKING FOUNTAIN CALC | | O.L.>150 = 1+(O.L.-150)/500 | | | |
| DRINKING FNT REQD | | 2 | | | |
| DRINKING FNT PROVIDED | | 2 | | | |

APPLICABLE CODES

(Jurisdiction Zoning Code Reference)
WASHINGTON STATE AMENDMENTS [CITY OF MONROE MUNICIPAL CODE 15.04.040]
2018 INTERNATIONAL ENERGY CONSERVATION CODE, COMMERCIAL (IECC)
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL FIRE CODE (IFC)
2018 UNIFORM PLUMBING CODE (UPC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2020 NATIONAL ELECTRICAL CODE (NEC)
2009 ICC A117.1 ACCESSIBILITY STANDARD

DEFERRED SUBMITTALS

- PRE-MANUFACTURED CARPORT
- FIRE SPRINKLER SYSTEM MODIFICATION
- FIRE ALARM AND DETECTION SYSTEM MODIFICATION
- MECHANICAL
- PLUMBING
- ELECTRICAL
- VEHICLE EXHAUST SYSTEM (REFER TO SHEET M22.01 ; IMC 502.14)
- OIL & WATER SEPARATOR
- CONSTRUCTION SAFEGUARDS (IBC CHAPTER 33)
(NOTE: INCLUDE PHASING/STAGING OF THE SITE FOR SAFETY AND ACCESS.)

SEISMIC & RISK CATEGORY

SEISMIC ZONE D
RISK CATEGORY IV [PER IBC TABLE 1604.5]

FIRE DISTRICT

SNOHOMISH REGIONAL FIRE AND RESCUE
163 VILLAGE COURT
MONROE, WA 98272

ZONING CODE SUMMARY

ZONING TYPE

MN, MIXED-USE NEIGHBORHOOD

LAND USE

FIRE STATION

- [NOTES]
 - FIRE STATION LISTED AS "CONDITIONAL USE" PER MMC TABLE 22.20.030. EXISTING FACILITY IS FIRE STATION.
 - CITY OF MONROE DETERMINED THAT THE CONDITIONAL USE PERMIT IS NOT REQUIRED AT MARCH 7, 2023 PRE-APPLICATION MEETING.

PARCEL NO. / LOT NO. / AREA

- PARCEL NO. 001776300002800 / LOT NO. 26 / 2.47 ACRES (108.024 SF)
[NOTES]
 - BLA WAS APPROVED ON JUNE 8, 2023 TO COMBINE LOT NO.26 & 27.

BUILDING SETBACK REQUIREMENTS

FRONT - 10 FT MINIMUM
SIDE - 5 FT MINIMUM
REAR - 10 FT MINIMUM
[NOTES]
• PROPOSED BUILDING ADDOTION WILL MEET THE REQUIREMENT. SEE SITE PLAN.

ALLOWABLE BUILDING HEIGHT

45 FT MAXIMUM (PER MMC 22.20.040.H)
[NOTES]
• PROPOSED BUILDING HEIGHT IS APPROXIMATELY 27 FT. SEE EXTERIOR ELEVATIONS FOR MORE INFO

PARKING REQUIREMENT

"AS DETERMINED BY A PARKING DEMAND ASSESSMENT" (PER MMC TABLE 22.44.050)
[NOTES]
• PARKING REQUIREMENT IS ADDRESSED IN THE SITE PLAN REVIEW COMMENT RESPONSE DATED JULY 10, 2023 AND ASSOCIATED MEMO TITLED "PARKING USAGE AT STATION 31" BY SNOHOMISH REGIONAL FIRE AND RESCUE.

LOT COVERAGE REQUIREMENT

80% (PER MMC TABLE 22.20.040.H)
[NOTE]
• THE PROJECT DOES NOT CHANGE THE EXISTING LOT COVERAGE.

BUILDING CODE SUMMARY

BUILDING USE

EMERGENCY VEHICLE MAINTENANCE/ REPAIR FACILITY.

OCCUPANCY CLASSIFICATION AND USE (CHAPTER 3)

- EXISTING FACILITY = BUSINESS GROUP B
- NEW ADDITION = STORAGE GROUP S-1
[NOTES]
 - EXISTING RECORD DRAWING SET "MONROE FIRE DEPARTMENT HEADQUARTERS STATION" BY LEWIS NELSON ARCHITECTS, DATED 7/12/1980 HAD CLASSIFIED THE ENTIRE BUILDING OCCUPANCY AS "B-2".
 - THE EXISTING BUILDING INCLUDES ADMINISTRATIVE OFFICES, FIRE FIGHTERS' SLEEP ROOMS, APPARATUS BAYS, MAINTENANCE BAY, AND RELATED SUPPORT SPACES.
 - OCCUPANCY CLASSIFICATION OF EXISTING SPACES ADJACENT TO THE ADDITION IS "S-1"
 - THIS PROJECT DOES NOT CHANGE THE USE OF THE BUILDING.

ALLOWABLE BUILDING HEIGHT (TABLE 504.3)

[NOTES]
• SEE ZONING CODE SUMMARY. MUNICIPAL CODE INDICATES LOWER MAXIMUM BUILDING HEIGHT THAN 2018 IBC TABLE 504.3.

ALLOWABLE NUMBER OF STORIES (TABLE 504.4)

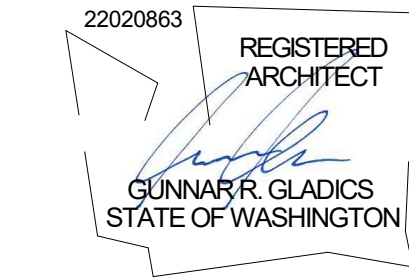
- GROUP S-1, TYPE VB WITH SPRINKLER SYSTEM: 2 STORIES.
[NOTES]
 - PROPOSED NUMBER OF STORIES: 1 STORY.
 - SEE BUILDING ELEVATIONS AND/OR SECTIONS FOR MORE INFO.

ALLOWABLE BUILDING AREA (2018 IBC 506.2.2 MIXED-OCCUPANCY, ONE-STORY BUILDING)

| OCCUPANCY CLASSIFICATION (SPRINKLER = S1, TYPE OF CONSTRUCTION = VB) | A-3 (EXISTING) | B (EXISTING) | S-1 (EXISTING & NEW) | S-2 (EXISTING) |
|--|----------------|--------------|----------------------|----------------|
| LEVEL 1 | | | | |
| TABULAR ALLOWABLE AREA FACTOR (A1) | 24,000 | 36,000 | 36,000 | 54,000 |
| TABULAR ALLOWABLE AREA FACTOR (NS) | 6,000 | 9,000 | 9,000 | 13,500 |
| BUILDING PERIMETER (F) | 66.92 | 309.6 | 282 | 237.88 |
| BUILDING PERIMETER (P) | 66.92 | 314.26 | 282 | 237.88 |
| WEIGHTED AVERAGE WIDTH (W) | 30 | 29.9 | 29.8 | 30 |
| AMOUNT OF INCREASE (I) | 0.75 | 0.73 | 0.73 | 0.75 |
| (NS) X (I) | 4,500 | 6,570 | 6,750 | 10,125 |
| ALLOWABLE AREA (Aa) | 28,500 | 42,570 | 42,750 | 64,125 |
| EXISTING AREA | 1,141 | 10,394 | 4,012 | 10,888 |
| PROPOSED ADDITION AREA | - | - | 3080 | |
| TOTAL AREA PER OCCUPANCY | 1,141 | 10,394 | 7,092 | 10,888 |
| OVERALL BUILDING AREA | | | | 29,515 |
| AREA RATIO (TOTAL AREA / ALLOWABLE) | 0.05 | 0.25 | 0.17 | 0.17 |
| SUM OF AREA RATOS < 1 [908.4.2] | | 0.64 | | |

- [NOTES]
 - EXISTING S-1 AREA IS BASED ON LEVEL 1 (3117SF) + MEZZANINE (895SF)
 - EXISTING S-2 AREA IS BASED ON LEVEL 1 (9829SF) + MEZZANINE (1059SF)

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SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

| PROJECT # | | 2022073 |
|-------------------|-------------------|-----------|
| BID SET | | |
| ISSUE DATE | | 3/22/2024 |
| REVISION SCHEDULE | | |
| 1 | PERMIT REVISION 1 | 12/20/23 |
| 2 | PERMIT REVISION 2 | 1/18/24 |
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CODE SUMMARY

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SHEET #

A00.03

| OCCUPANT LOAD CHART BY ROOM | | | | | | |
|-----------------------------|-------------------|---------|--------------------------|--|--|---------------|
| ROOM INFORMATION | | | OCCUPANCY CLASSIFICATION | | IBC 2018 TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT | |
| NUMBER | NAME | AREA | | FUNCTION OF SPACE | LOAD FACTOR | OCCUPANT LOAD |
| 100 | OFFICE | 234 SF | S-1, VEHICLE REPAIR | BUSINESS AREAS | 150 SF / GROSS | 2 |
| 101 | (E) PARTS ROOM | 348 SF | S-1, VEHICLE REPAIR | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 300 SF / GROSS | 2 |
| 102 | PARTS ROOM | 133 SF | S-1, VEHICLE REPAIR | ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 300 SF / GROSS | 1 |
| 103 | MAINTENANCE BAY 1 | 2195 SF | S-1, VEHICLE REPAIR | PARKING GARAGES | 200 SF / GROSS | 12 |
| 104 | MAINTENANCE 2 | 613 SF | S-1, VEHICLE REPAIR | PARKING GARAGES | 200 SF / GROSS | 4 |
| LEVEL 1 | | 3523 SF | | | | 21 |
| TOTAL | | 3523 SF | | | | 21 |

| KEY NOTES - LIFE SAFETY PLAN | |
|------------------------------|--|
| # | NOTE DESCRIPTION |
| 1 | EXISTING 8" CMU WALL IS CONTINUOUS HORIZONTALLY FROM EAST TO WEST CMU EXTERIOR WALLS, AND IT EXTENDS VERTICALLY FROM THE FLOOR SLAB TO THE ROOF DECK. THE EXISTING WALL SEPARATES EXISTING APP BAY (S-2 OCCUPANCY) AND EXISTING MAINTENANCE BAY (S-1 OCCUPANCY). CONTRACTOR TO VERIFY TOP OF WALL CONDITION AND PROPERLY FIRESTOP AS REQUIRED. (SEE DETAIL 13/A03.01). ALL THRU-WALL PENETRATIONS ARE TO BE PROPERLY FIRESTOPPED PER IBC SECTION 714.4 TO MAINTAIN REQUIRED FIRE RESISTIVE RATING OF THE WALL. |

NOTES & LEGEND - LIFE SAFETY PLAN

1. PROVIDE EXIT SIGNAGE PER 2018 IBC 1009.9, 1009.10, 1009.11, AND 1013.
2. PROVIDE MEANS OF EGRESS ILLUMINATION PER 2018 IBC 1008.

[*] OCCUPANT LOAD

(E) EXIT SIGN

EXIT SIGN

FIRE EXTINGUISHER

EGRESS PATH

ACCESSIBLE PATH (SEE A11.01 FOR CONTINUATION OF PATH OUTSIDE OF BUILDING.)

EXIT ACCESS OCCUPANT LOAD

EXIT DISCHARGE OCCUPANT LOAD

OUT OF SCOPE / (E) MIXED USE OCCUPANCY.

OCCUPANCY CLASSIFICATION: GROUP S-1 (STORAGE)

45 MIN

FIRE RATED DOOR

FB 1 HR

FIRE BARRIER, 1-HOUR

13 LIFE SAFETY PLAN - (E) MEZZANINE

1/16" = 1'-0"

5 LIFE SAFETY PLAN - LEVEL 1

1/16" = 1'-0"

0' 4' 8' 16'

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GUNNARR GLADICS
STATE OF WASHINGTON

SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

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|---------------------|-----------|
| PROJECT # | 2022073 |
| BID SET | |
| ISSUE DATE | 3/22/2024 |
| REVISION SCHEDULE | |
| 2 PERMIT REVISION 2 | 1/18/24 |
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AHJ APPROVAL STAMP

LIFE SAFETY PLAN - LEVEL 1

SHEET #

A01.01

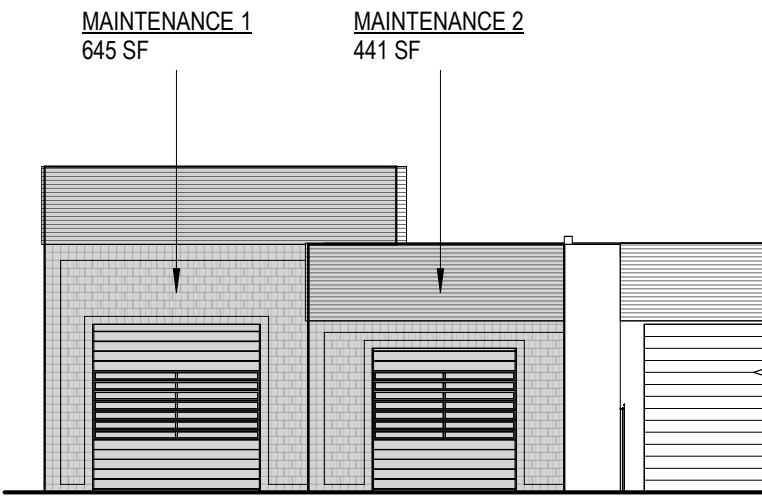


| REVISION SCHEDULE |
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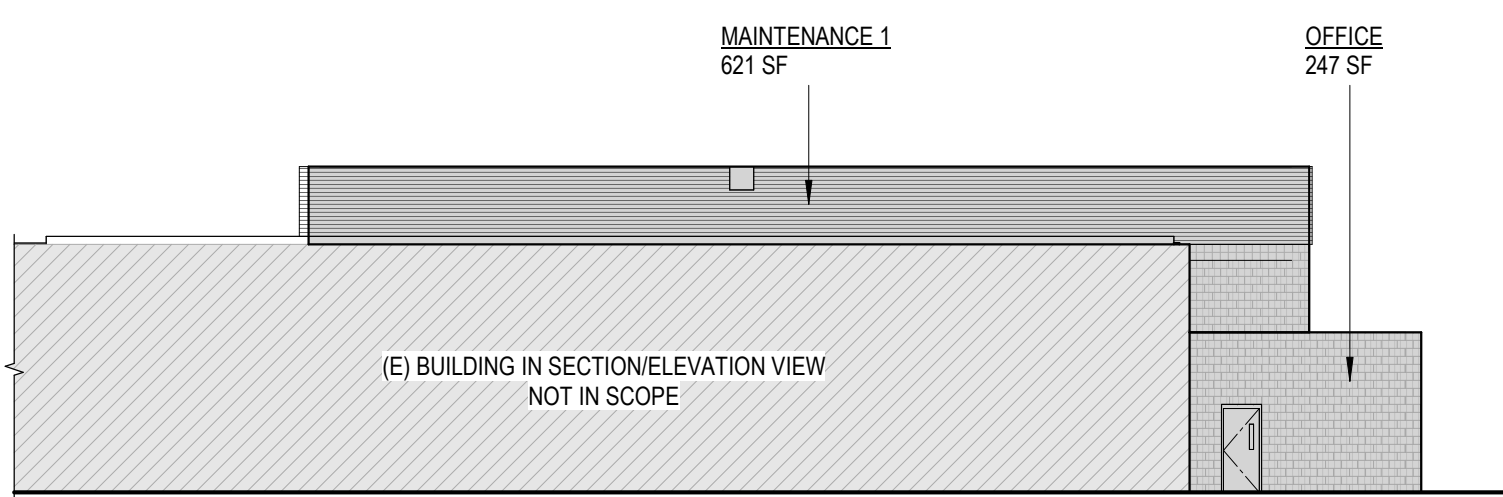
2018 WA STATE ENERGY CODE (WSEC)

A CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE BUILDING THERMAL ENVELOPE. SEE OUTLINE AND SHADED AREA OF BUILDING THERMAL ENVELOPE IN THE FLOOR PLANS AND BUILDING SECTIONS ON THIS SHEET. THE CONTINUOUS AIR BARRIER SHALL BE CONSTRUCTED TO COMPLY WITH THE FOLLOWING:

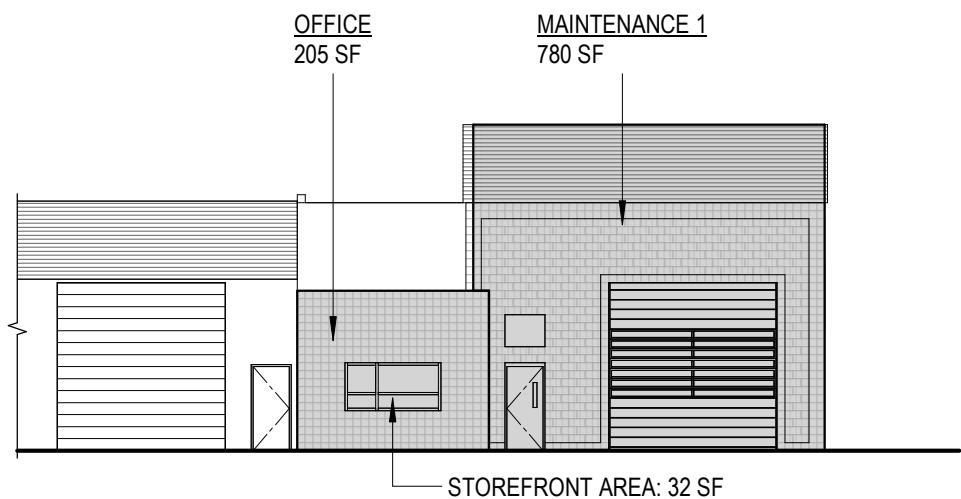
- THE AIR BARRIER SHALL BE CONTINUOUS FOR ALL THERMAL ENVELOPE ASSEMBLIES AND ACROSS THE JOINTS AND ASSEMBLIES.
- AIR BARRIER JOINTS, SEAMS AND PENETRATIONS SHALL BE SEALED, CAULKED AND/OR GASKETED AS APPROPRIATE WITH COMPATIBLE MATERIALS.
- AIR BARRIERS AND SEALING MATERIALS SHALL BE SECURELY INSTALLED SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO RESIST POSITIVE AND NEGATIVE PRESSURE FROM WIND, STACK EFFECT, AND MECHANICAL VENTILATION.
- WHERE FIRE SPRINKLERS PENETRATE THE AIR BARRIER, THEY SHALL BE SEALED IN A MANNER RECOMMENDED BY THE FIRE SPRINKLER MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES AND WALLS OR CEILINGS.
- WHERE RECESSED LIGHTING FIXTURES PENETRATE THE AIR BARRIER, THEY SHALL BE ALL OF THE FOLLOWING PER WSEC C402.5.8:
 - IC RATED
 - LABELED AS HAVING AN AIR LEAKAGE RATE OF NOT MORE THAN 2.0 CFM WHEN TESTED PER ASTM E 283 AT A 1.57 PSF PRESSURE DIFFERENTIAL
 - SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.
- IF REQUIRED, THE COMPLETED BUILDING SHALL BE TESTED PER WSEC C402.5.1.2:
 - THE AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.40 CFM/FT² AT A PRESSURE DIFFERENTIAL OF 0.30 INCHES WATER GAUGE AT THE UPPER 95% CONFIDENCE INTERVAL IN ACCORDANCE WITH ASTM E 779 OR AN EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL.
 - A REPORT THAT INCLUDES THE TESTED SURFACE AREA, FLOOR AREA, AIR BY VOLUME, STORIES ABOVE GRADE, AND LEAKAGE RATES SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL.
 - IF THE TESTED RATE EXCEEDS THE ABOVE REQUIREMENT, A VISUAL INSPECTION SHALL BE CONDUCTED AND ANY LEAKS NOTED SHALL BE SEALED TO THE EXTENT PRACTICABLE. AN ADDITIONAL REPORT IDENTIFYING THE CORRECTIVE ACTIONS TAKEN TO SEAL THE AIR LEAKS SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL AND ANY FURTHER REQUIREMENT TO MEET THE AIR LEAKAGE RATE SHALL BE WAIVED.
 - BUILDING ENVELOPE TESTING AGENCY SHALL REFER TO WSEC C402.5.1.2 FOR DETAILED TESTING REQUIREMENTS.
- ROOMS CONTAINING FUEL-BURNING APPLIANCES SHALL COMPLY WITH WSEC C402.5.3.
- OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE PROVIDED WITH DAMPERS IN ACCORDANCE WITH WSEC SECTION C403.2.4.3.
- MATERIALS QUALIFY AS AN AIR BARRIER WHEN THEY HAVE A MAXIMUM AIR PERMEABILITY NO GREATER THAN 0.004 CFM/FT² UNDER A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE WHEN TESTED IN ACCORDANCE WITH ASTM E 2178. THE FOLLOWING COMPLY WITH THIS REQUIREMENT PROVIDED JOINTS ARE SEALED AND MATERIALS INSTALLED AS AIR BARRIERS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS:
 - PLYWOOD WITH MINIMUM 3/8" THICKNESS
 - ORIENTED STRAND BOARD WITH MINIMUM 3/8" THICKNESS
 - EXTRUDED POLYSTYRENE INSULATION BOARD WITH MINIMUM 1/2" THICKNESS
 - FOIL-BACKED POLYISOCYANURATE INSULATION BOARD WITH MINIMUM 1/2" THICKNESS
 - CLOSED CELL SPRAY FOAM WITH MINIMUM 1.5 PCF AND MINIMUM 1.5" THICKNESS
 - OPEN CELL SPRAY FOAM WITH DENSITY BETWEEN 0.4 AND 1.5 PCF AND MINIMUM 4.5" THICKNESS
 - CEMENT BOARD WITH MINIMUM 1/2" THICKNESS
 - BUILT-UP ROOFING MEMBRANE
 - MODIFIED BITUMINOUS ROOF MEMBRANE
 - FULLY ADHERED SINGLE-PLY ROOF MEMBRANE
 - A PORTLAND CEMENT/SAND PARGE, OR GYPSUM PLASTER WITH MINIMUM 5/8" THICKNESS
 - CAST-IN-PLACE AND PRECAST CONCRETE
 - FULLY GROUTED CONCRETE BLOCK MASONRY
 - SHEET STEEL OR ALUMINUM
- ASSEMBLIES OF MATERIALS AND COMPONENTS QUALIFY AS AN AIR BARRIER WHEN THEY HAVE A MAXIMUM AIR LEAKAGE OF 0.04 CFM/FT² UNDER A PRESSURE DIFFERENTIAL OF 0.3 INCHES OF WATER GAUGE WHEN TESTED IN ACCORDANCE WITH ASTM E 2357, ASTM E 1877 OR ASTM E 283. THE FOLLOWING COMPLY WITH THIS REQUIREMENT PROVIDED JOINTS ARE SEALED AND CONSTRUCTION REQUIREMENTS ABOVE ARE MET:
 - CONCRETE MASONRY WALLS COATED WITH ONE APPLICATION EITHER OF BLOCK FILLER AND TWO APPLICATIONS OF A PAINT OR SEALER COATING.
 - A PORTLAND CEMENT/SAND PARGE, STUCCO OR PLASTER WITH MINIMUM 1/2" THICKNESS.



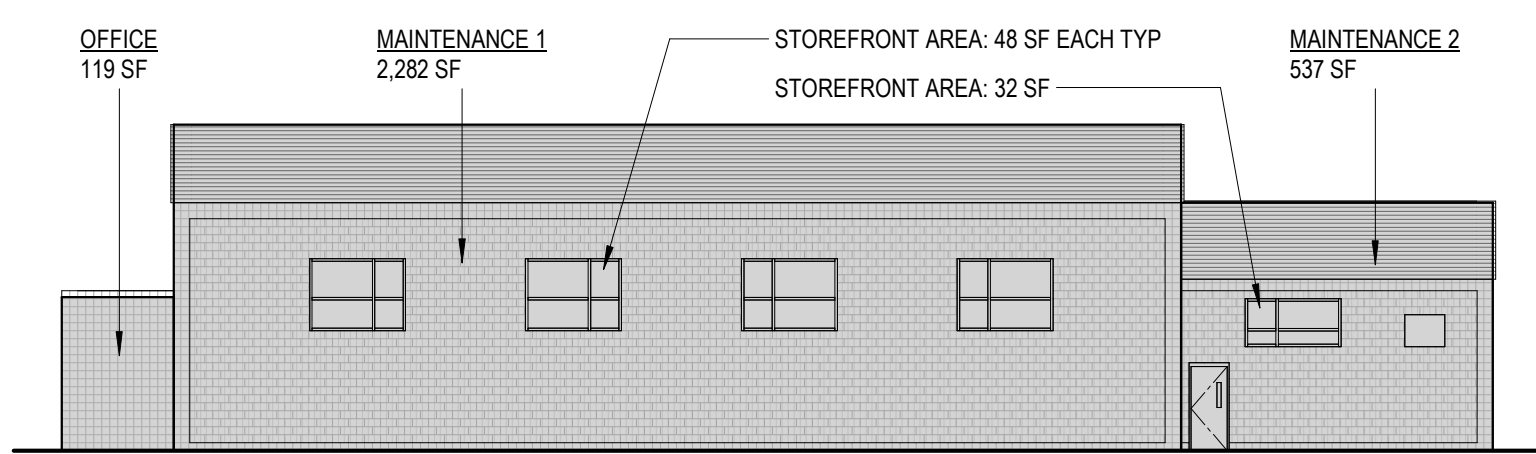
16 SURFACE AREA - WEST ELEVATION
1/16" = 1'-0"



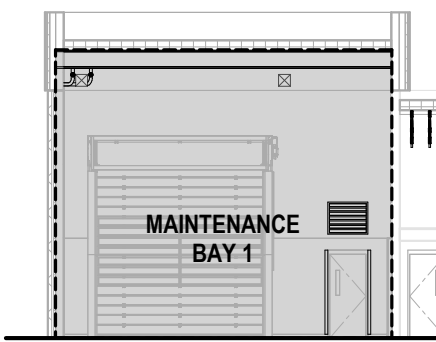
12 SURFACE AREA - SOUTH ELEVATION
1/16" = 1'-0"



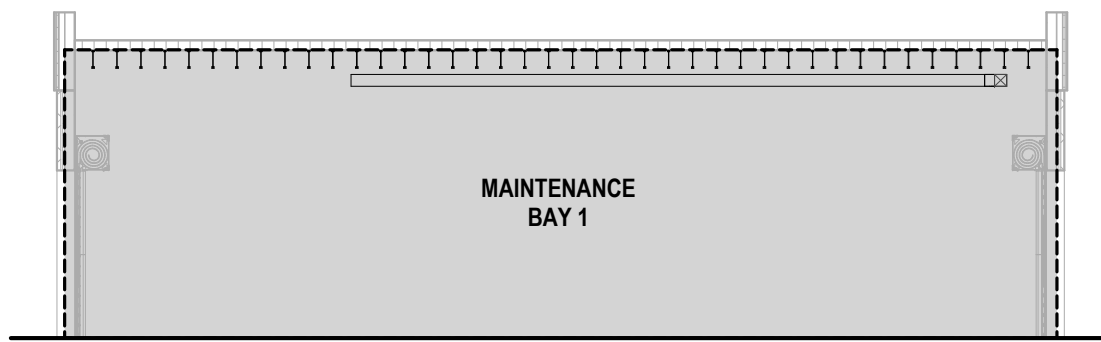
15 SURFACE AREA - EAST ELEVATION
1/16" = 1'-0"



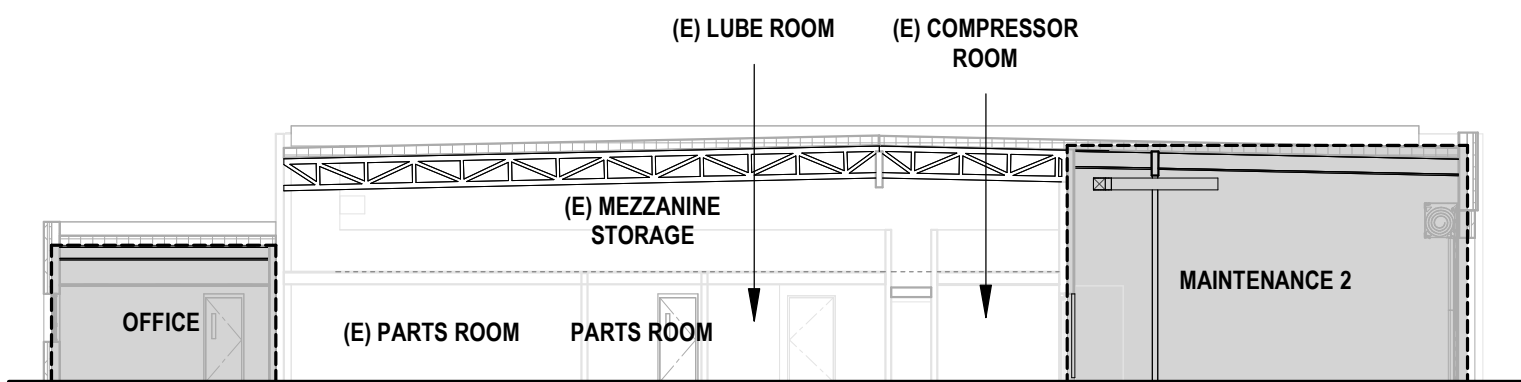
11 SURFACE AREA - NORTH ELEVATION
1/16" = 1'-0"



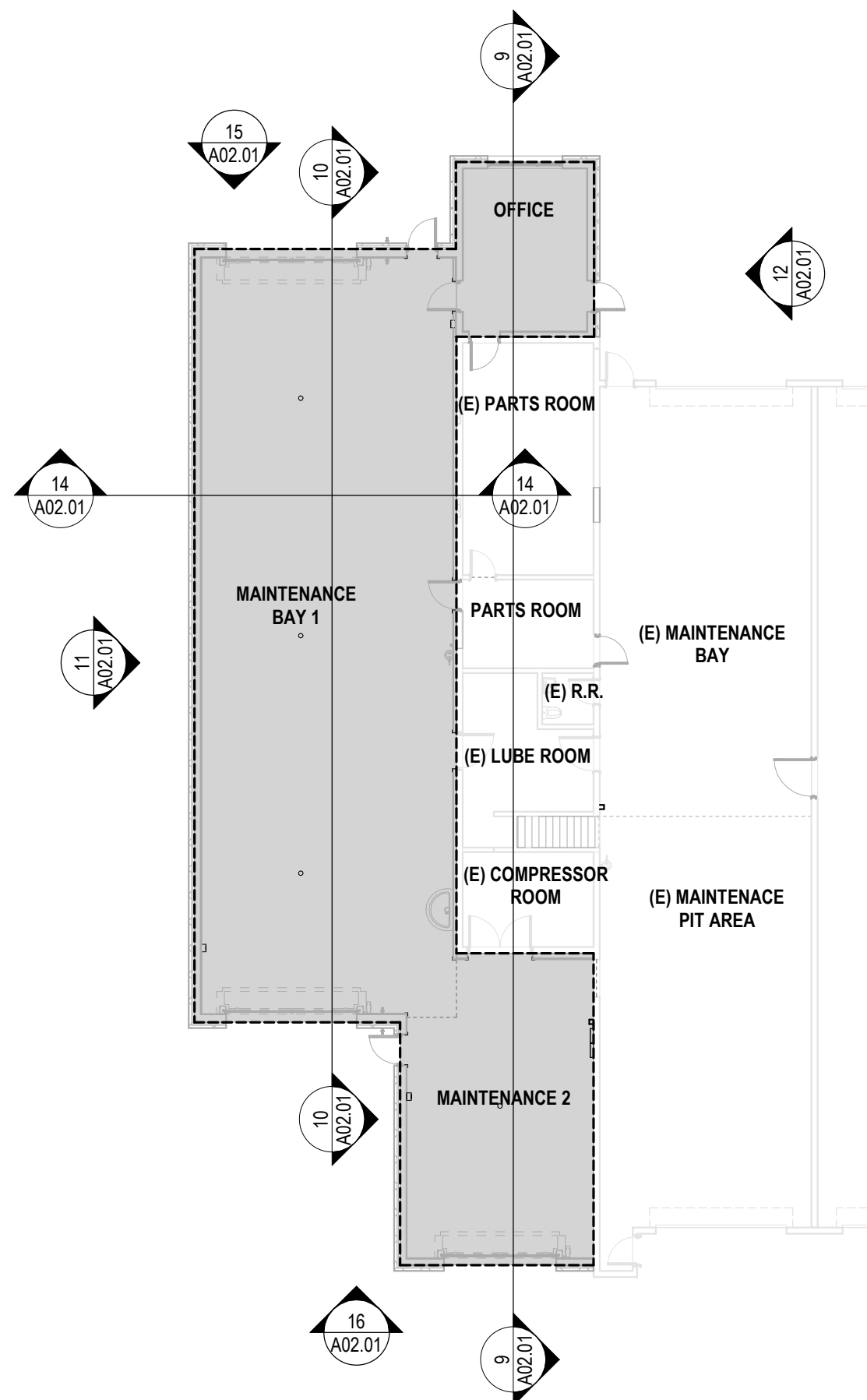
14 AIR BARRIER SECTION- MAINT 1 LATITUDINAL
1/16" = 1'-0"



10 AIR BARRIER SECTION - MAINT 1 LONG
1/16" = 1'-0"



9 AIR BARRIER SECTION - MAINT 2 & OFFICE
1/16" = 1'-0"



5 AIR BARRIER PLAN - LEVEL 1
1/16" = 1'-0"

AIR BARRIER LEGEND



| | |
|-------------------|----------------------------|
| PROJECT # | 2022073 |
| BID SET | |
| ISSUE DATE | 3/22/2024 |
| REVISION SCHEDULE | |
| 1 | PERMIT REVISION 1 12/20/23 |
| 2 | PERMIT REVISION 2 1/18/24 |
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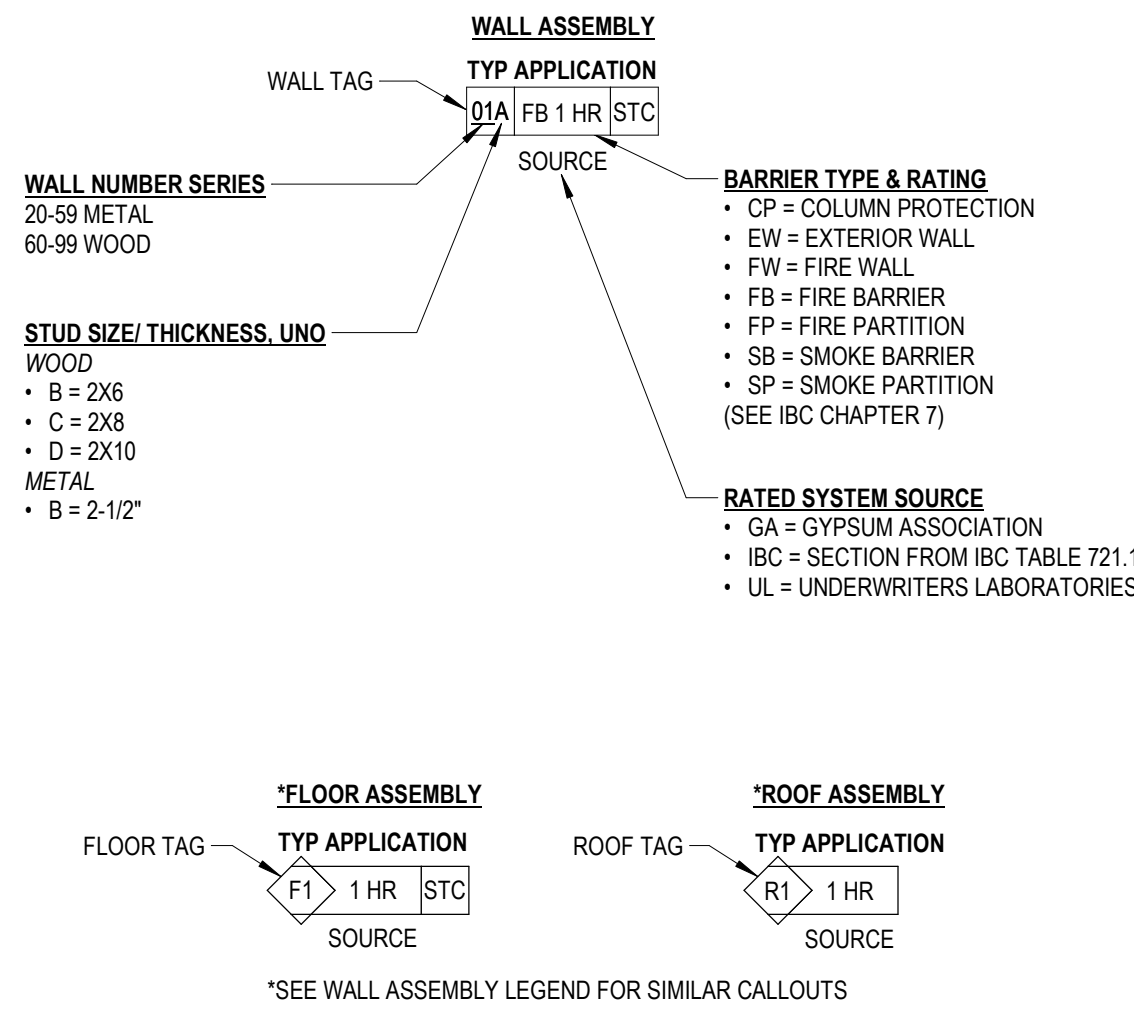
AHJ APPROVAL STAMP

ASSEMBLY TYPES

SHEET #

A03.01

NOTES & LEGEND - ASSEMBLY TYPES



RATED ASSEMBLIES

TERMINATE FIRE RATED ASSEMBLIES AS DESCRIBED BELOW:

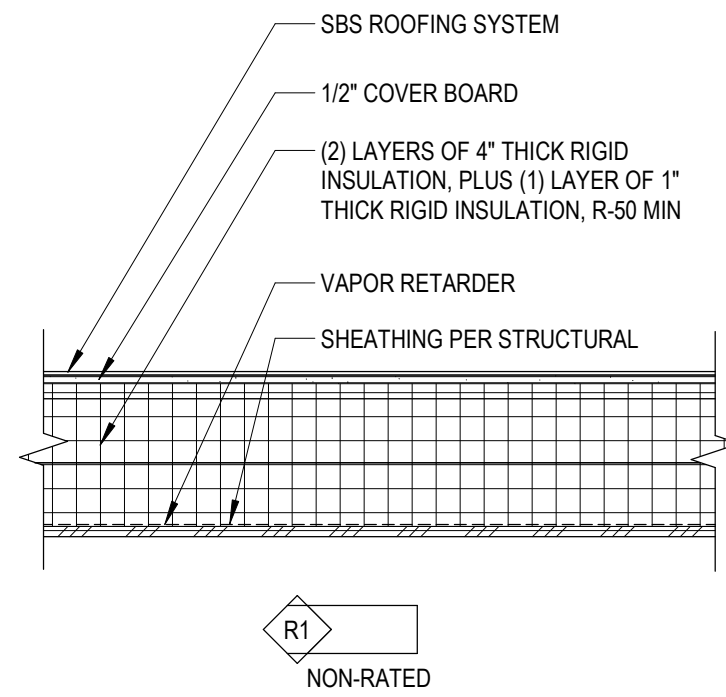
EXTERIOR WALLS PER IBC 705

1. FIRE SEPARATION >10 FT. RATED FOR FIRE EXPOSURE FROM INSIDE

FIREBLOCKING PER IBC 718.2

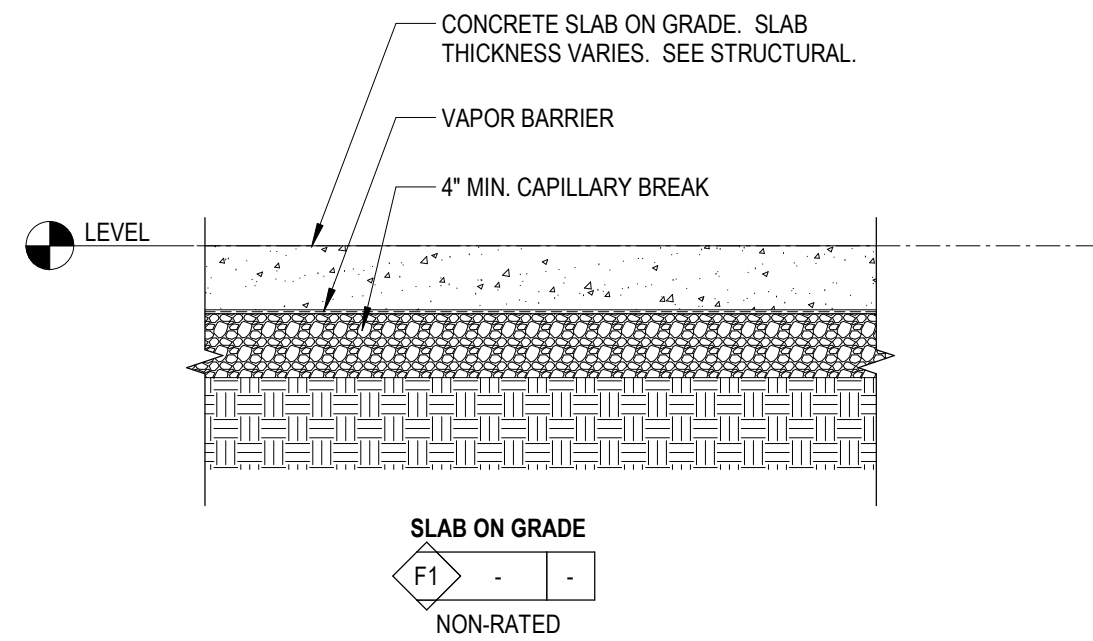
FIREBLOCKING MATERIALS (I.E. 2X LUMBER, 1/2" GYPSUM BOARD, SECURED BATT INSULATION AND OTHER MATERIALS LISTED IN IBC 718.2.1) SHALL BE INSTALLED IN COMBUSTIBLE CONCEALED SPACES TO FORM AN EFFECTIVE BARRIER BETWEEN FLOORS AND BETWEEN TOP STORY AND ROOF ATTICS. THE FOLLOWING ARE THE MINIMUM REQUIRED LOCATIONS:

1. CONCEALED WALL SPACES
 - A. VERTICALLY AT THE CEILING AND FLOOR LEVELS
 - B. HORIZONTALLY AT 10 FT MAXIMUM INTERVALS
2. CONNECTIONS BETWEEN HORIZONTAL AND VERTICAL SPACES
3. ANNULAR SPACE AROUND PENETRATING COMPONENTS IN CEILING AND FLOOR OPENINGS
4. CONCEALED SPACES OF EXTERIOR COMBUSTIBLE WALL COVERINGS AT MAXIMUM 20 FT INTERVALS IN EITHER DIRECTION AND MAXIMUM 100 SF BETWEEN FIREBLOCKING. (SEE IBC 718.2.6 FOR EXCEPTIONS)



2 ROOF TYPES

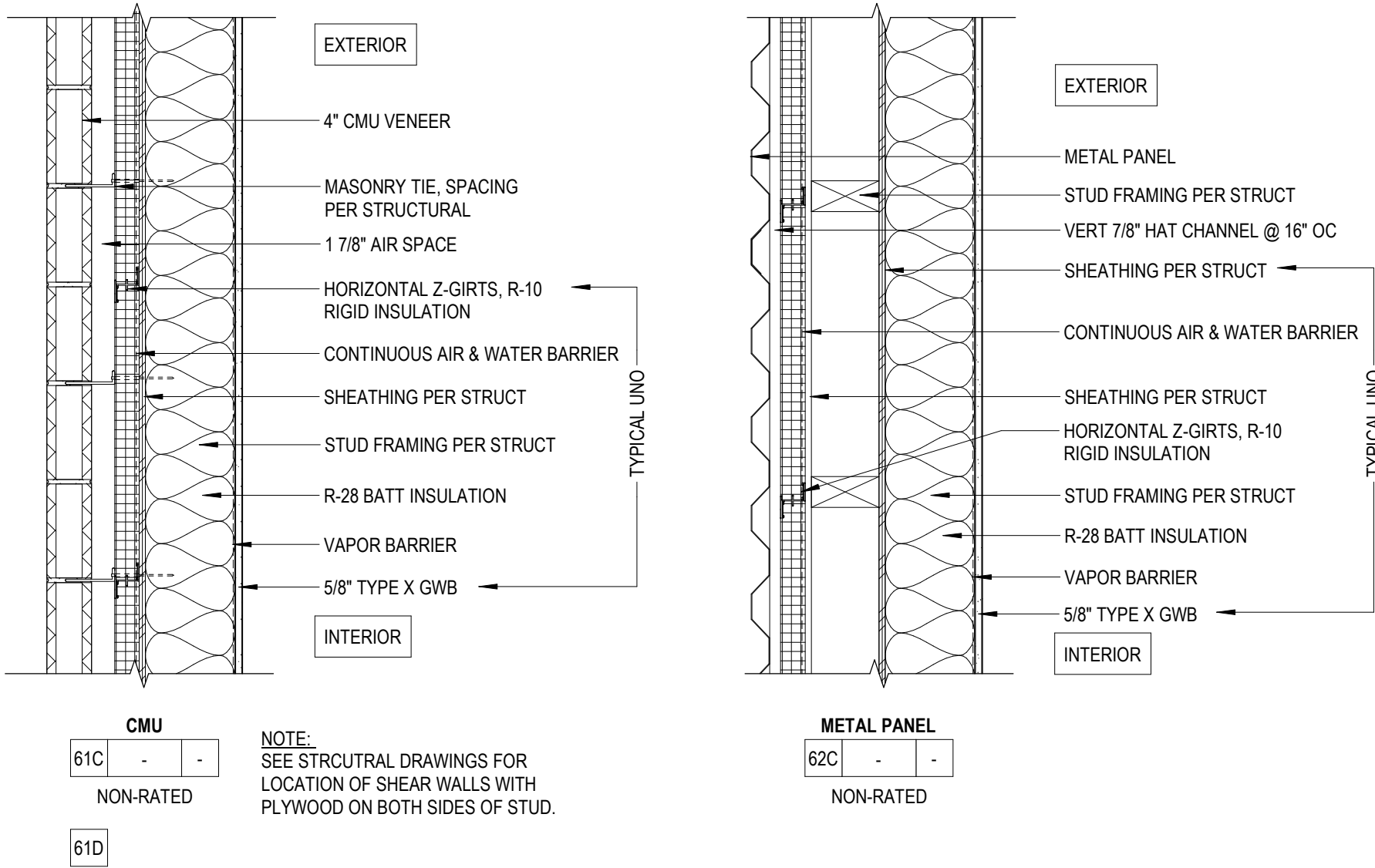
1" = 1'-0"



NOTE: SEE WALL SECTION FOR PERIMETER SLAB INSULATION

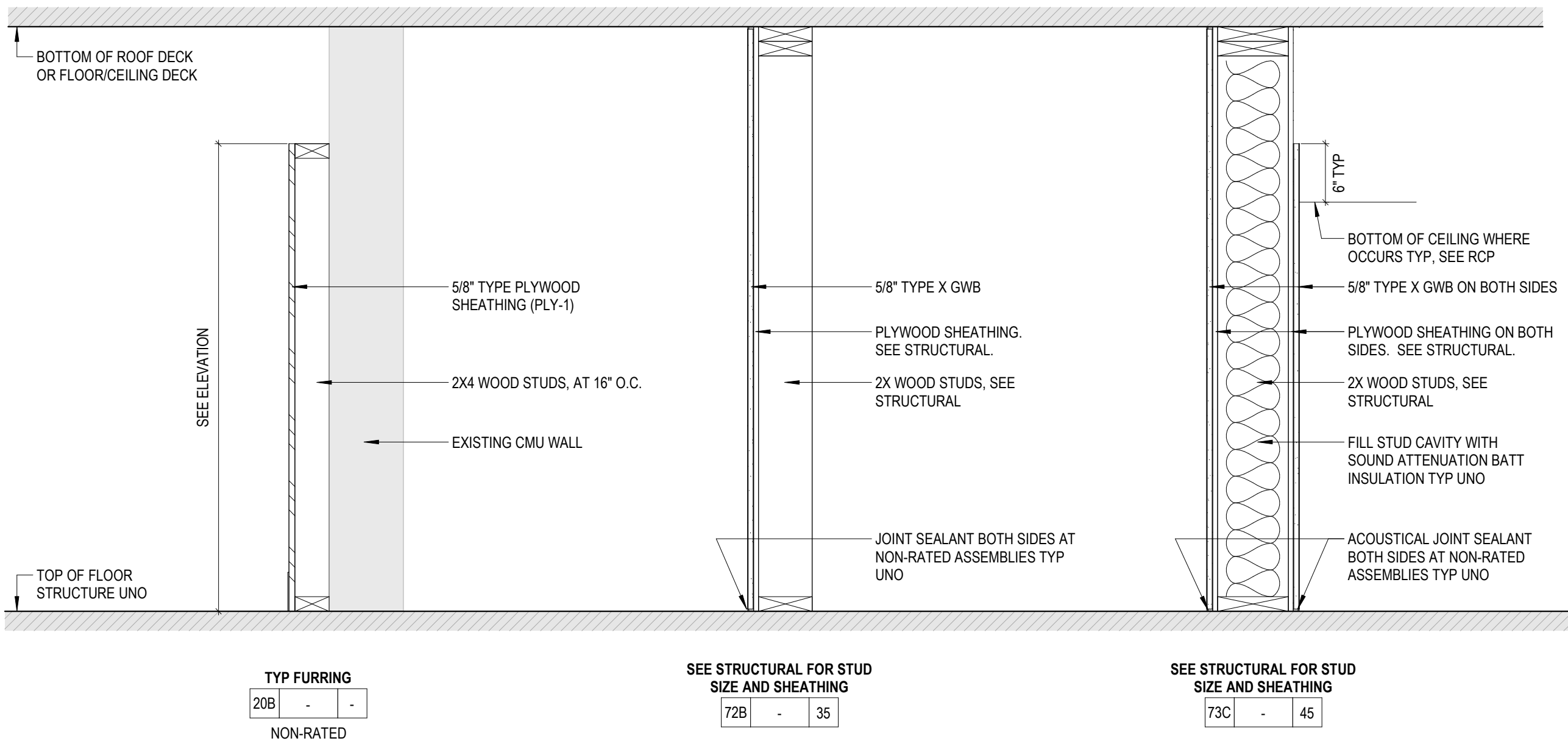
1 FLOOR TYPES

1" = 1'-0"



7 EXTERIOR WALLS

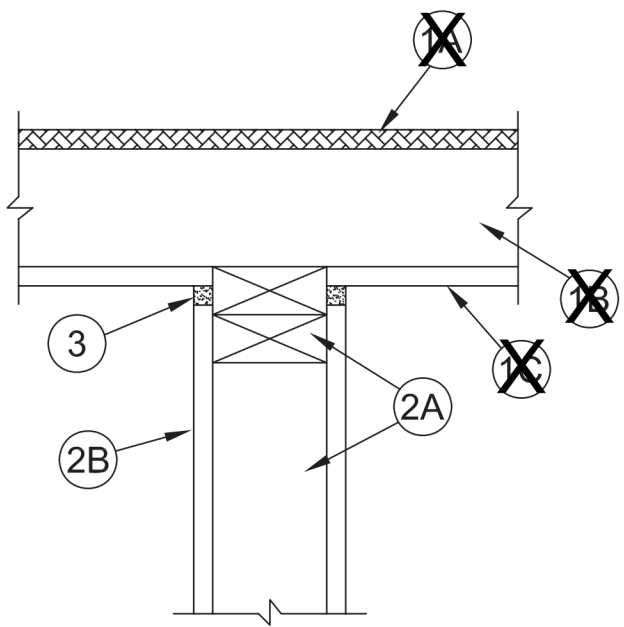
1" = 1'-0"



9 INTERIOR PARTITION TYPES - WOOD

1" = 1'-0"

System No. HW-S-0082
September 11, 2006
Assembly Rating - 1 Hr
Joint Width - 1/2 In. (13 mm) Max



1. **Floor Assembly** - The 1 hr fire-rated wood joist, wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500-Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Flooring System** - Lumber or plywood subfloor with finish floor of **lumber, plywood or Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design.
 - B. **Wood Joists** - Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.
 - C. **Gypsum Board*** - Nom 4 ft. (122 cm) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design.
2. **Wall Assembly** - The 1 hr fire rated gypsum board/lumber stud wall assembly shall be constructed of the materials and in the manner described in the individual U300-Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Studs** - Wall framing to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Top plate installed parallel or perpendicular to direction of wood joists and secured to bottom of joists with steel fasteners spaced max 24 in. (610 mm) OC.
 - B. **Gypsum Board*** - Gypsum board sheets installed to a min total thickness of 5/8 in. (16 mm) on each side of wall. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 1/2 in. (13 mm) gap shall be maintained between the top of the gypsum board and the ceiling of the floor-ceiling assembly.
3. **Fill/Void or Cavity Material*** - **Caulk** - Min 5/8 in. (16 mm) thickness of fill material installed to fill the max 1/2 in. (13 mm) gap at the wall/ceiling intersection flush with each surface of the wall.
3M COMPANY - FireDam 150+ Caulk

*Bearing the UL Classification Mark

[NOTE]
EXISTING RECORD DRAWING SHOWS 4X8 WOOD TOP PLATE AT THE TRANSITION OF EXISTING 8" CMU WALL TO EXISTING PLYWOOD ROOF DECK. CONTRACTOR TO VERIFY THE EXISTING CONDITION & PROVIDE STUD FRAMING & GYPSUM BOARD AS NEEDED TO MAINTAIN THE REQUIRED FIRE RATING OF THE WALL.

NOTE
BASIS OF DESIGN PRODUCT SHOWN.

13 HEAD OF WALL FIRESTOPPING WALL JOINT DETAIL

12" = 1'-0"

HW-S

122

3M Fire Protection Products
www.3m.com/firestop

HW-S-0082 • 1 of 1

This material was extracted and drawn by 3M Fire Protection Products from the 2007 edition of the UL Fire Resistance Directory. ©UL 2008
Product Support Line: 1-800-328-1687
Choose option 4 for FAX OR DEMAND

SRFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

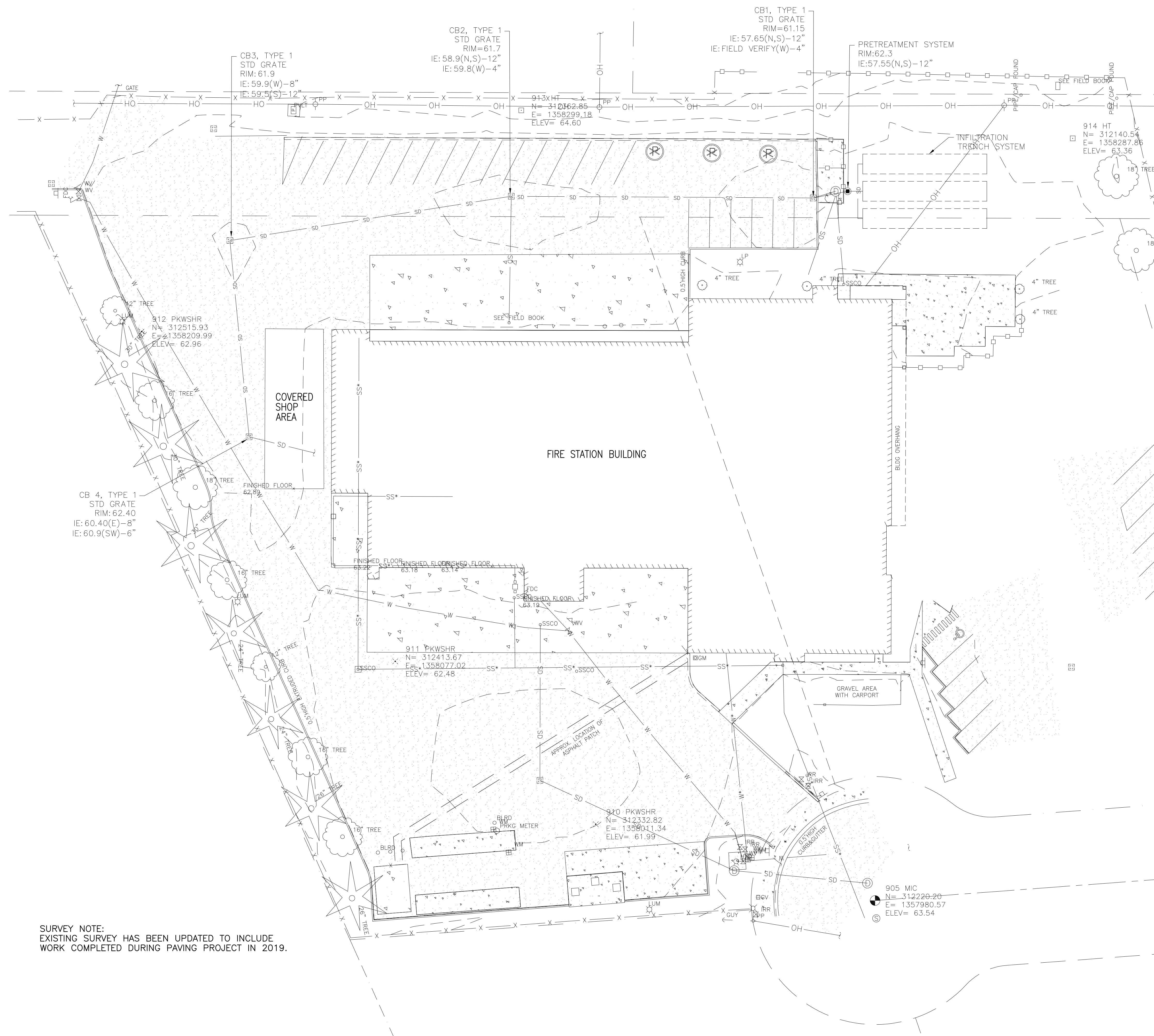
163 VILLAGE COURT
MONROE, WA 98272

[illegible]

EXISTING CONDITIONS PLAN


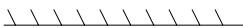

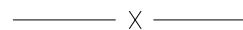





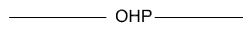

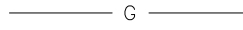

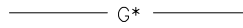

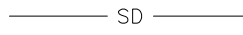

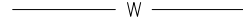

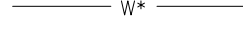



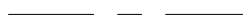




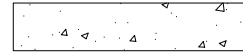




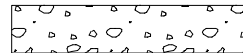





SHEET #

V-101



SURVEY NOTE:
EXISTING SURVEY HAS BEEN UPDATED TO INCLUDE
WORK COMPLETED DURING PAVING PROJECT IN 2019.

- ### LEGEND

- | | | | |
|---|----------------------------|---|------------------------------|
|  | CONIFER TREE |  | BUILDING LINE |
|  | DECIDUOUS TREE |  | STEEL FENCE |
|  | GAS VALVE |  | WOOD FENCE |
|  | GAS METER |  | POWER LINE |
|  | POWER VAULT |  | OVERHEAD WIRES |
|  | POWER METER |  | GAS LINE |
|  | POWER POLE WITH LIGHT |  | RECORD GAS LINE |
|  | UTILITY POLE |  | STORM DRAIN LINE |
|  | GUY ANCHOR |  | WATER LINE |
|  | LUMINAIRE ON 24" CONC PAD |  | RECORD WATER LINE |
|  | FIRE DEPARTMENT CONNECTION |  | RIGHT-OF-WAY (ASSESSOR MAP) |
|  | STORM DRAIN MANHOLE |  | CENTERLINE (ASSESSOR MAP) |
|  | CATCH BASIN |  | PROPERTY LINE (ASSESSOR MAP) |
|  | CLEANOUT | | |
|  | WATER VAULT |  | CONCRETE PAVEMENT |
|  | FIRE HYDRANT |  | ASPHALT PAVEMENT |
|  | WATER VALVE | | |
|  | WATER METER |  | GRAVEL |
|  | IRRIGATION VALVE | | |
|  | SANITARY SEWER MANHOLE | | |
|  | SANITARY SEWER CLEAN OUT | | |
|  | BOLLARD | | |
|  | FOUND MONUMENT IN CASE | | |

DATUMS:

HORIZONTAL DATUM:

NAD 83/11 WA NORTH

COORDINATES ESTABLISHED THROUGH GPS RTK OBSERVATIONS ON TWO WSDOT POINTS 6866 AND 6865 VIA THE WASHINGTON STATE REFERENCE NETWORK. ADDITIONAL CONTROL COORDINATES ESTABLISHED BY CLOSED TRAVERSE.

MONUMENT ID NO. 6866, EX. 1 ½ " ALUMINIUM DISC IN IRON
PIPE STAMPED "IS31211"

N= 313365.735, E= 1361167.740, ELEV= 74.107
MONUMENT ID NO. 6865, EX. 1 1/2" ALUMINIUM DISC IN IRON
PIPE STAMPED "IS31210"
N= 311746.571, E= 1361135.614, ELEV= 74.793

VERTICAL DATUM: NAVD 88

PROJECT BENCHMARK: WSDOT MONUMENT ID NO. 6866, EX. 1 1/2
"ALUMINIUM DISC IN IRON PIPE" STAMPED "IS31211"
ELEV= 74.107

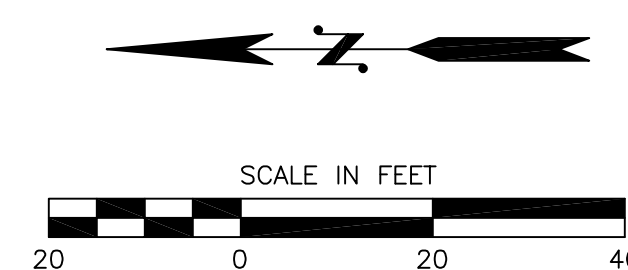
SITE BENCHMARK: POINT NR 905, EX. 4"x4" CONCRETE
MONUMENT IN CASE W 1 $\frac{3}{4}$ " BRASS DISC WITH PUNCH (-0.30'
DOWN)
ELEV= 63.54

UTILITY NOTES:

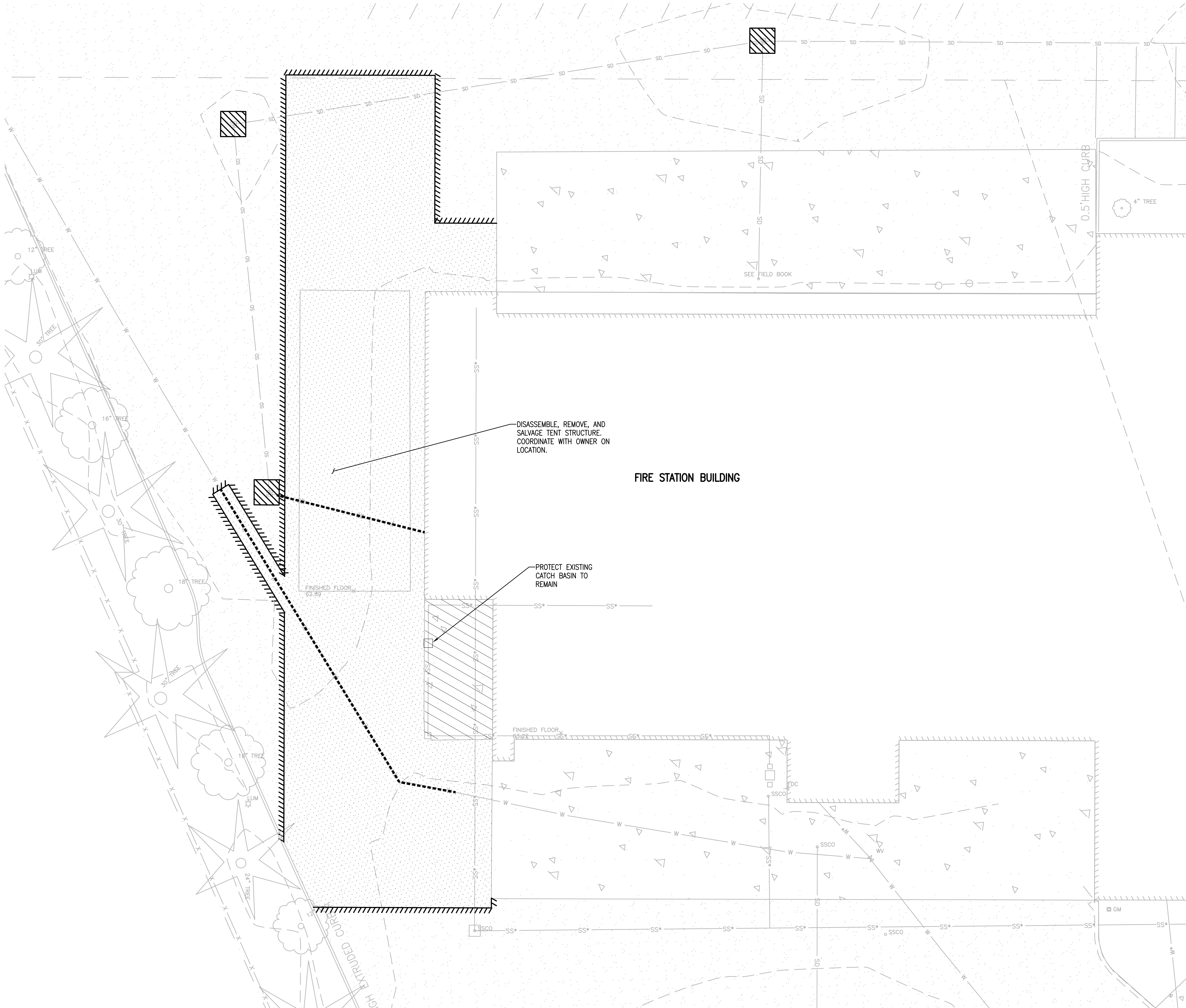
1. THE UTILITIES SHOWN HEREON ARE BASED ON OBSERVATION OF SURFACE FEATURES, RECORD DRAWINGS AND BY PAINT MARKS SET BY A UTILITY LOCATING COMPANY. FIELD LOCATIONS MUST BE VERIFIED PRIOR TO ANY CONSTRUCTION.

SURVEY NOTES:

1. PROPERTY BOUNDARIES ARE DEPICTED USING RECORD PLAT BEARINGS AND DISTANCES FROM FOUND MONUMENT POSITIONS. NO GUARANTEE OF OWNERSHIP LIMITS IS PROVIDED.
2. THIS SURVEY WAS MADE WITHOUT THE BENEFIT OF A TITLE REPORT. A BOUNDARY SURVEY WAS NOT COMPLETED IN CONJUNCTION WITH THIS TOPOGRAPHIC SURVEY.



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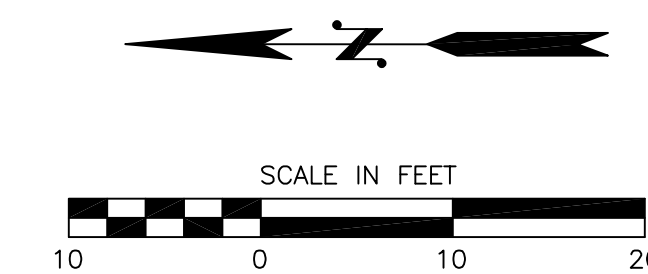
LEGEND:

- DEMOLISH UTILITY PIPE
 - DEMOLISH ASPHALT PAVEMENT
 - DEMOLISH CONCRETE PAVEMENT
 - SAWCUT PAVEMENT
 - CATCH BASIN SEDIMENT PROTECTION
 - STRAW WATTLES
- CD101 | C501

NOTE: SEE V-101 FOR EXISTING FEATURES LEGEND.

NOTES:

- SEE ELECTRICAL FOR POWER, LIGHTING, PHONE, AND COMMUNICATIONS DEMOLITION.
- PROTECT EXISTING UTILITIES TO REMAIN DURING CONSTRUCTION OPERATIONS, UNLESS NOTED OTHERWISE.
- MAINTAIN ACCESS TO EXISTING BUILDING DURING CONSTRUCTION OPERATIONS. PROVIDE 72-HOUR NOTICE TO OWNER IF ACCESS CLOSURE IS REQUIRED.



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ARCHITECTURE INTERIORS PLANNING VIZLAB
275 FIFTH STREET, SUITE 100
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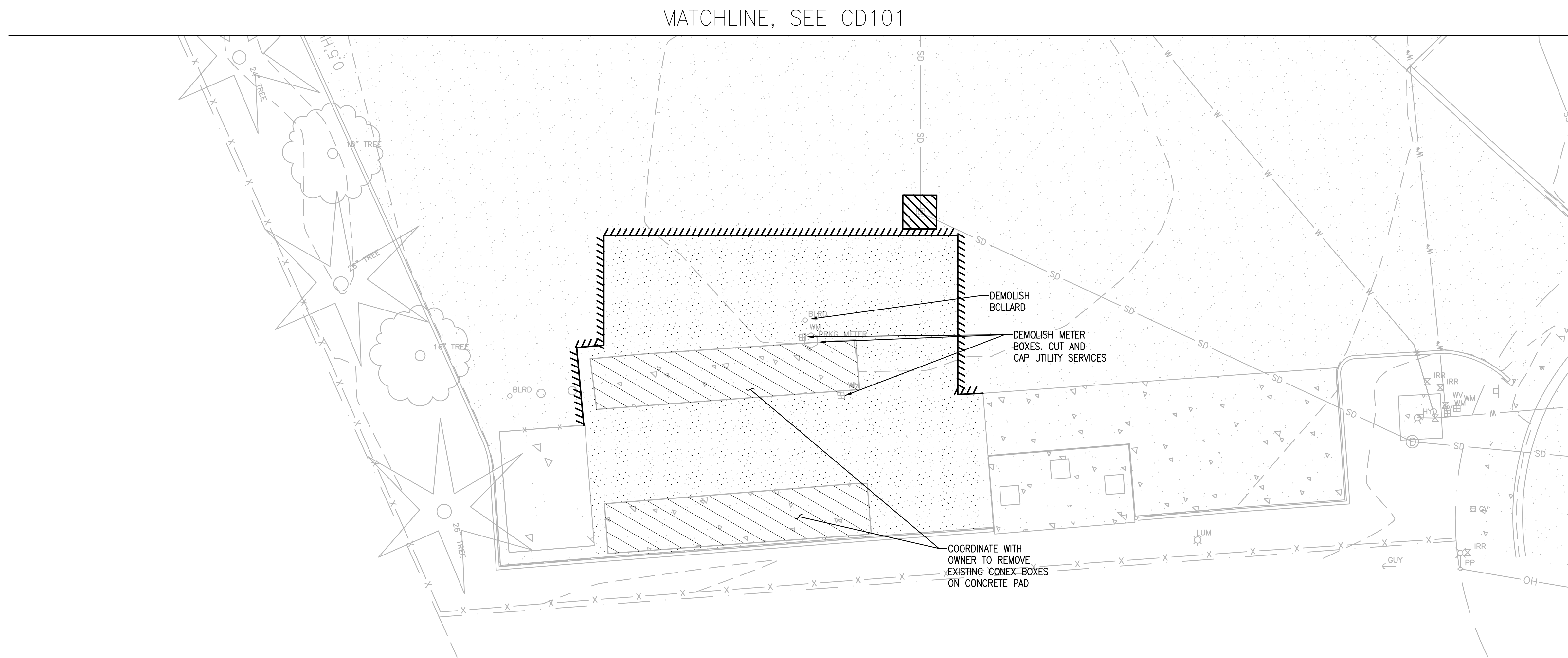


3/22/2024

SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

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| PROJECT # | 2022073 |
| BID SET | |
| ISSUE DATE | 3/22/2024 |
| REVISION SCHEDULE | |
| AHJ APPROVAL STAMP | |
| SITE DEMOLITION AND TESC PLAN | |
| SHEET # | |

CD101



BID ALTERNATE 01

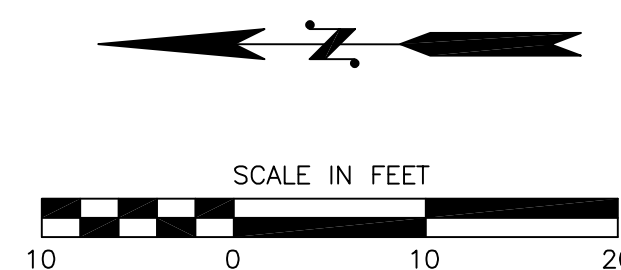
LEGEND:

-
- DEMOLISH ASPHALT PAVEMENT
- DEMOLISH CONCRETE PAVEMENT
- SAWCUT PAVEMENT
- CATCH BASIN SEDIMENT PROTECTION
- 1
CD102 | C501

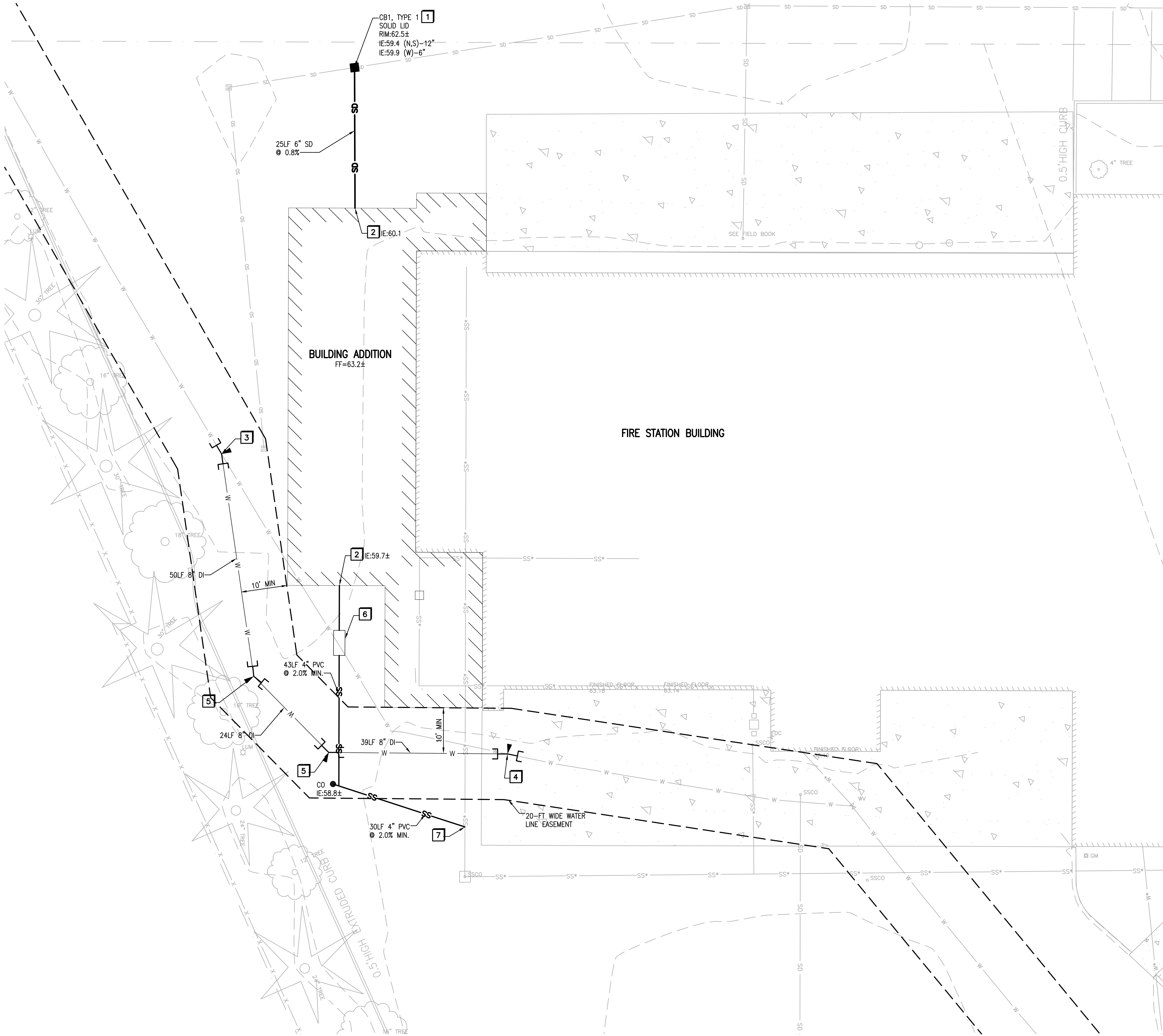
NOTE: SEE V-101 FOR EXISTING FEATURES LEGEND.

NOTES:

1. SEE ELECTRICAL FOR POWER, LIGHTING, PHONE, AND COMMUNICATIONS DEMOLITION.
2. PROTECT EXISTING UTILITIES TO REMAIN DURING CONSTRUCTION OPERATIONS, UNLESS NOTED OTHERWISE.



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LEGEND:

- SS SEWER PIPE
- W WATER PIPE
- SD STORM PIPE
- CO CLEANOUT
- BEND
- WATER MAIN EASEMENT

CONSTRUCTION NOTES:

- INTERCEPT AND CUT EXISTING STORM PIPE. PROVIDE CATCH BASIN STRUCTURE AS NOTED.
- POINT OF CONNECTION. SEE PLUMBING FOR CONTINUATION.
- CONNECT TO EXISTING 8-INCH DI PIPE:
(1) 8" 22.5' BEND
THRUST BLOCKING
- CONNECT TO EXISTING 8-INCH DI PIPE:
(1) 8" 11.25' BEND
THRUST BLOCKING
- (1) 45' BEND
THRUST BLOCKING
- PROVIDE COALESCING PLATE OIL/WATER SEPARATOR. OLD CASTLE 660-SA.
- CONNECT TO EXISTING SEWER SERVICE PIPE WITH WYE FITTING. PROVIDE CLEANOUT. SEE NOTE 1.

NOTES:

- BEFORE COMMENCING CONSTRUCTION OF SANITARY SEWER AND WATER MAIN, EXCAVATE TO VERIFY LOCATION AND INVERT ELEVATION OF THE EXISTING SANITARY SEWER AND WATER MAIN PIPE TO BE CONNECTED TO PROPOSED SYSTEM. IF A CONFLICT EXISTS, CONTACT THE ARCHITECT IMMEDIATELY.
- BEFORE COMMENCING CONSTRUCTION OF SANITARY SEWER, VERIFY INVERT ELEVATIONS AND LOCATION OF SERVICES PENETRATING THE BUILDING WALL WITH MECHANICAL (PLUMBING). IF A CONFLICT EXISTS, CONTACT THE ARCHITECT IMMEDIATELY.
- THE CONTRACTOR SHALL USE A PRIVATE UTILITY LOCATING SERVICE TO IDENTIFY ALL UTILITIES PRIOR TO ANY EXCAVATION.
- PROTECT EXISTING UTILITIES AND ABOVE GROUND STRUCTURES TO REMAIN DURING CONSTRUCTION.
- RESTRAIN ALL PIPES, JOINTS, AND FITTINGS OF THE WATER SYSTEM.

RECORD DRAWING NOTE:

- PROVIDE SURVEY OF THE INSTALLED WATER MAIN PRIOR BACKFILL OPERATIONS TO DOCUMENT AS-BUILT CONDITIONS. THIS INFORMATION IS REQUIRED BY THE CITY OF MONROE FOR RECORD DRAWING APPROVAL.



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3/22/2024

SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

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| PROJECT # | 2022073 |
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| ISSUE DATE | 3/22/2024 |
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| REVISION SCHEDULE | |
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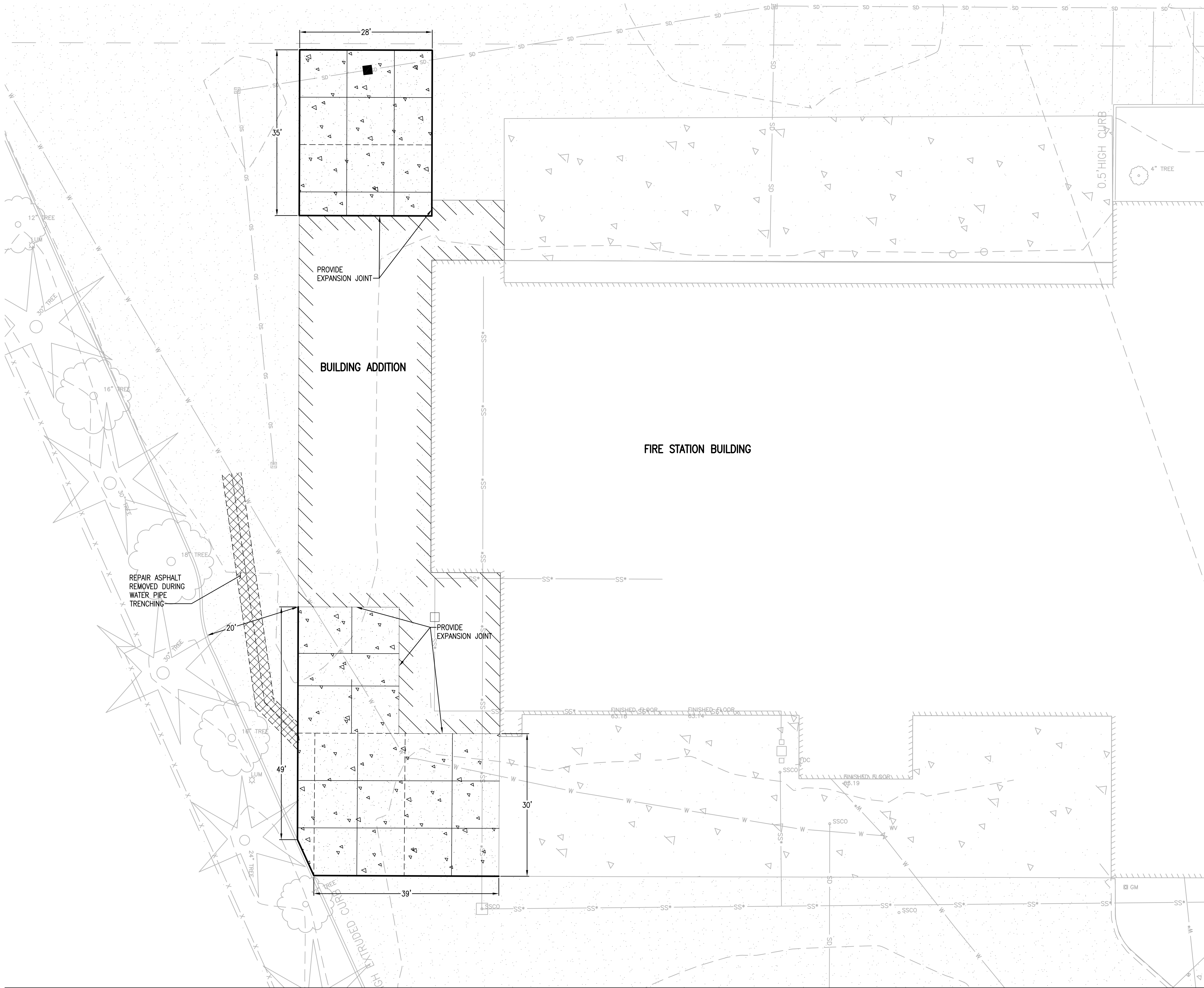


SITE UTILITY PLAN

SHEET #

CU101

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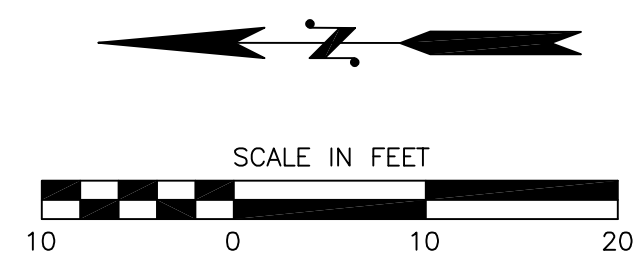


LEGEND:

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- EXPANSION JOINT **5**
CP101|C501
- CONTROL JOINT **4**
CP101|C501

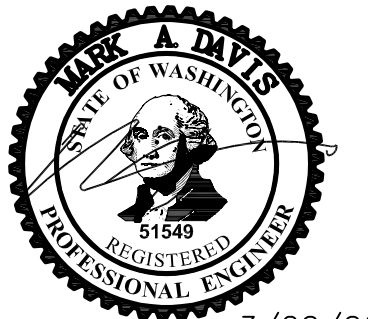
NOTES:

- FOR CONCRETE PAVEMENT SECTION SEE **3**
CP101|C501
- FOR ASPHALT PAVEMENT PATCH DETAIL SEE **2**
CP101|C501
- CONTROL OR EXPANSION JOINTS SHALL BE SPACED MAXIMUM DISTANCE OF 10- FEET APART, CENTER-TO-CENTER, IN BOTH LONGITUDINAL AND TRANSVERSE DIRECTIONS.
- PROVIDE EXPANSION JOINTS AROUND UTILITY STRUCTURES (NOT SHOWN ON THIS PLAN) LOCATED IN THE CONCRETE PAVEMENT AREAS.



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3/22/2024

SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

PROJECT # 2022073

BID SET

ISSUE DATE 3/22/2024

REVISION SCHEDULE

AHJ APPROVAL STAMP

SITE PAVEMENT AND LAYOUT PLAN

SHEET #

CP101

SRFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

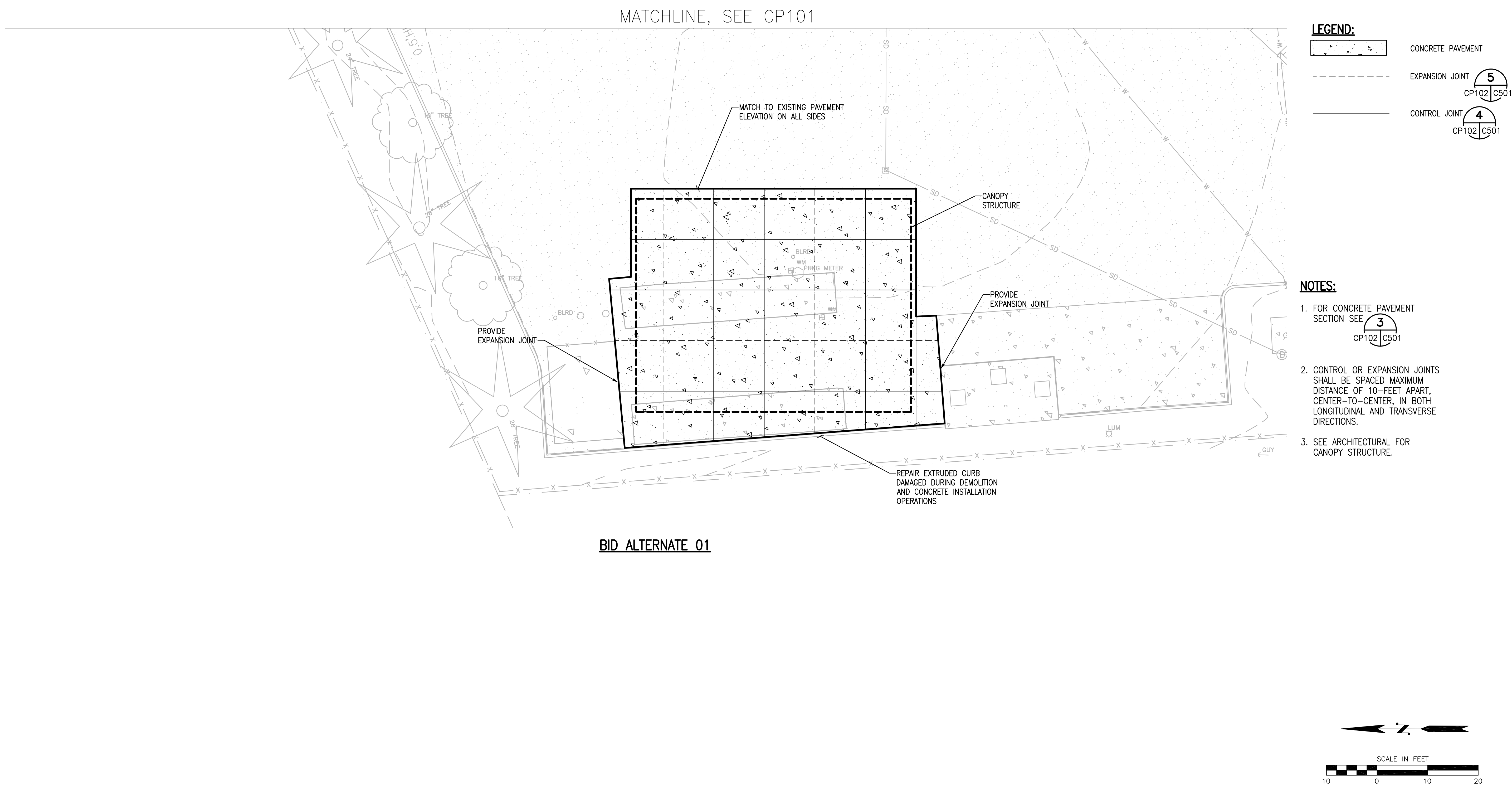
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MONROE, WA 98272

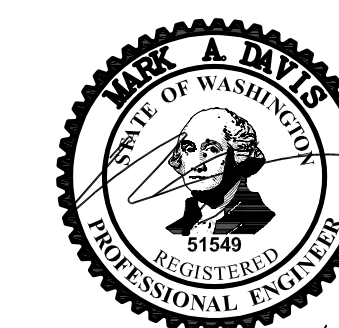
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SITE PAVEMENT AND LAYOUT PLAN

SHEET #

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3/22/2024

SRFR 31 - SHOP ADDITION

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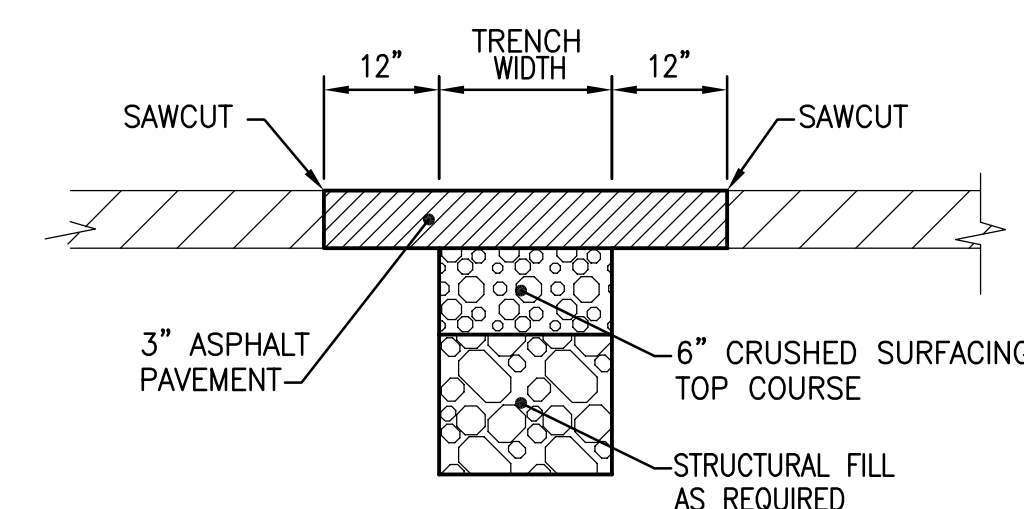
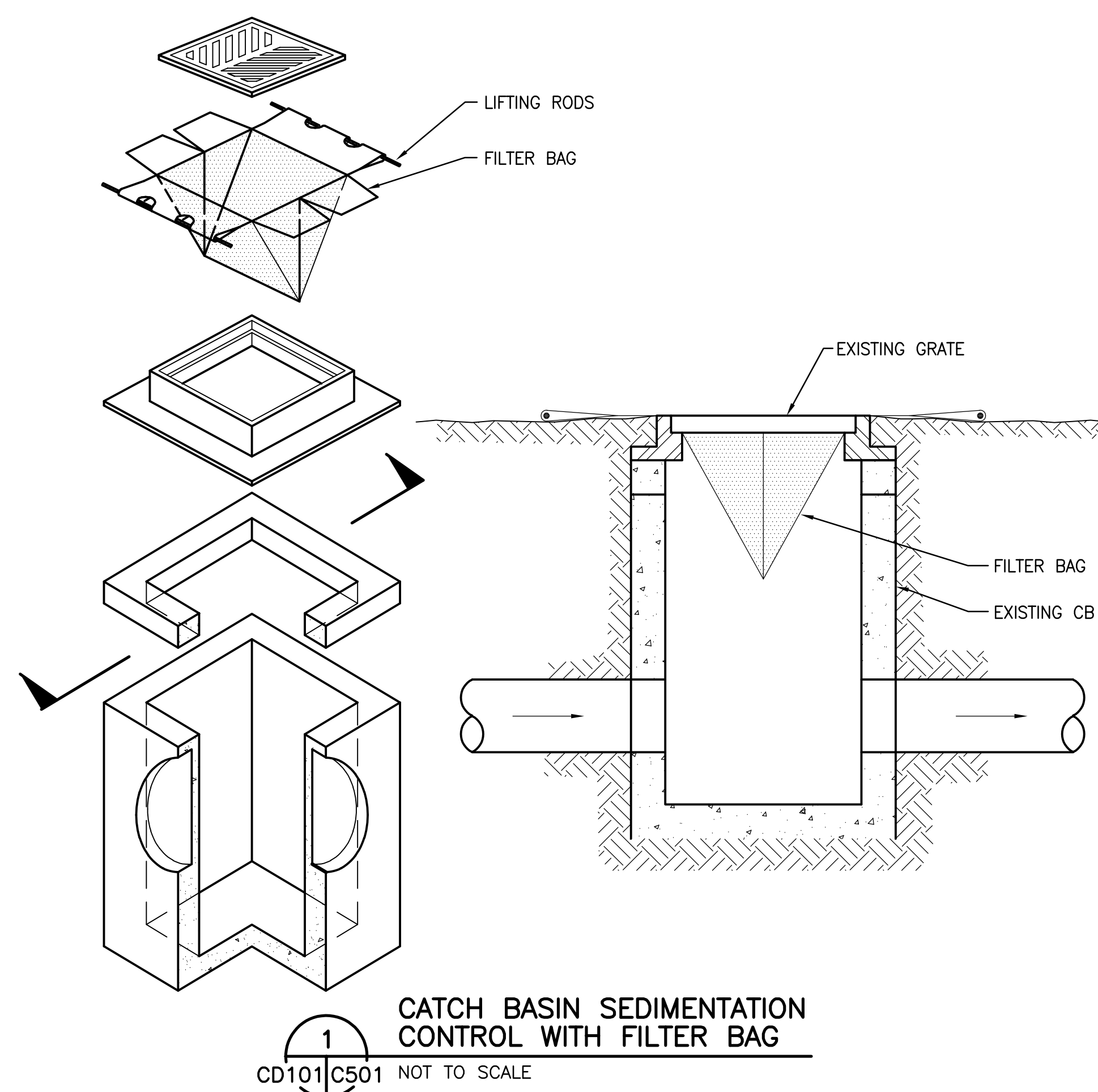
163 VILLAGE COURT
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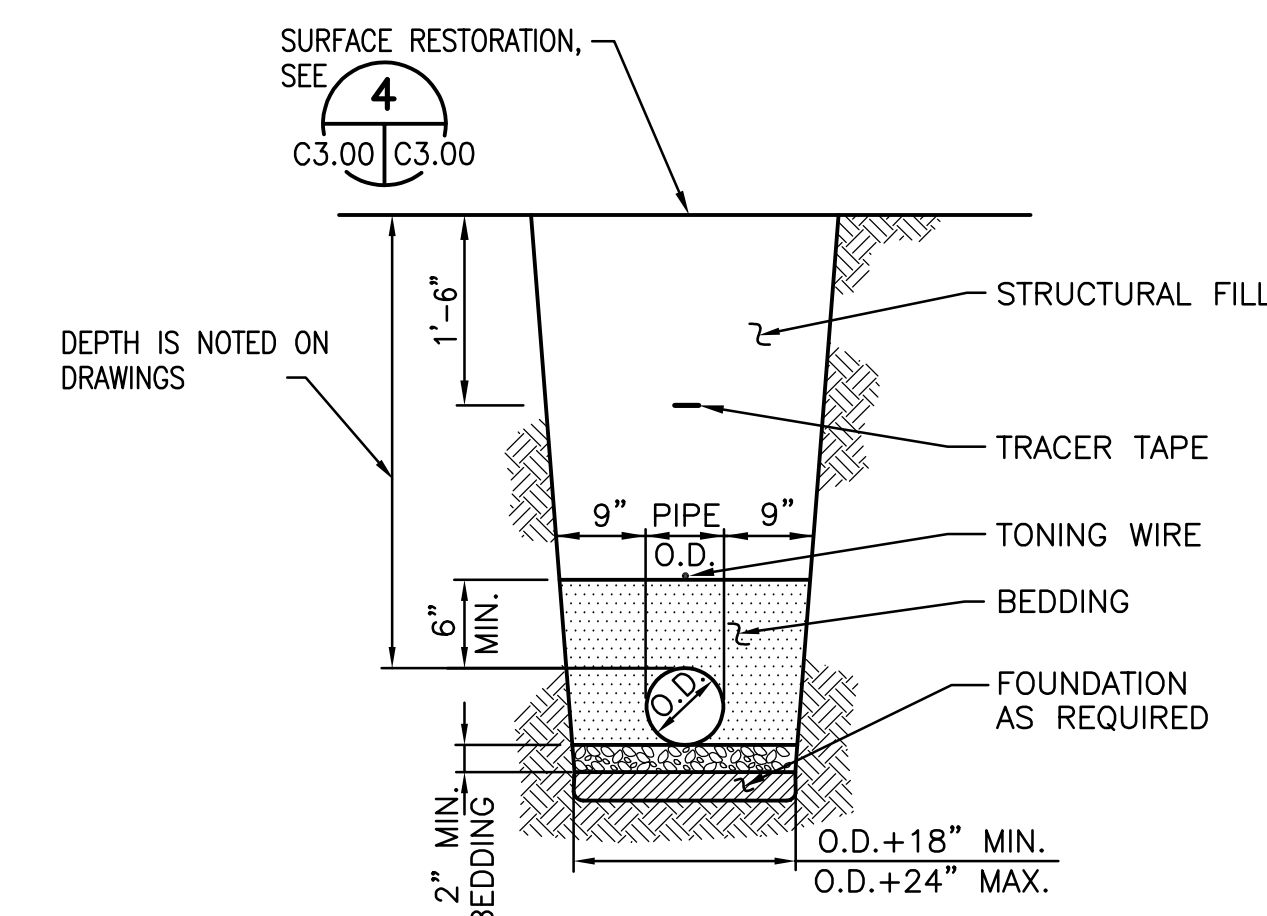
DETAILS

SHEET #

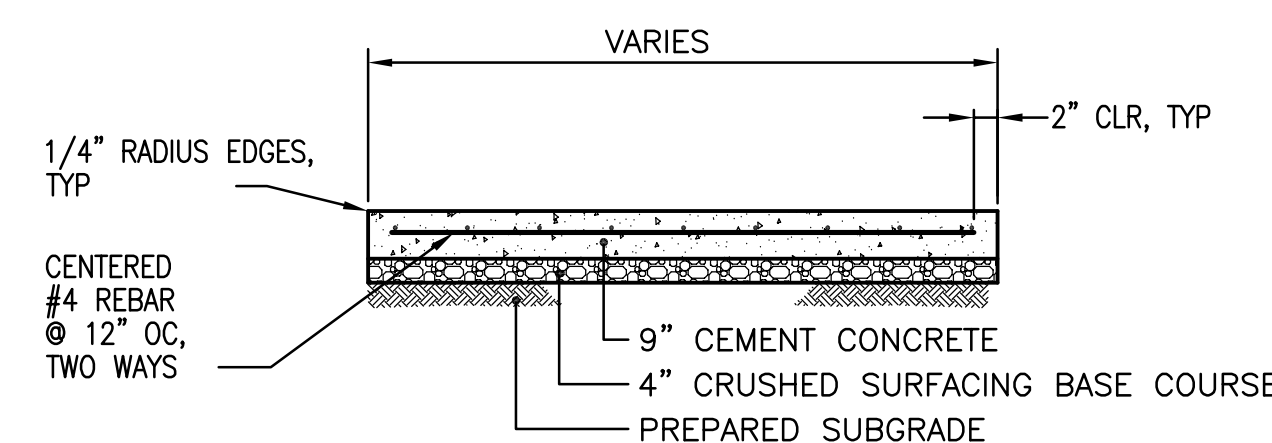
C-501



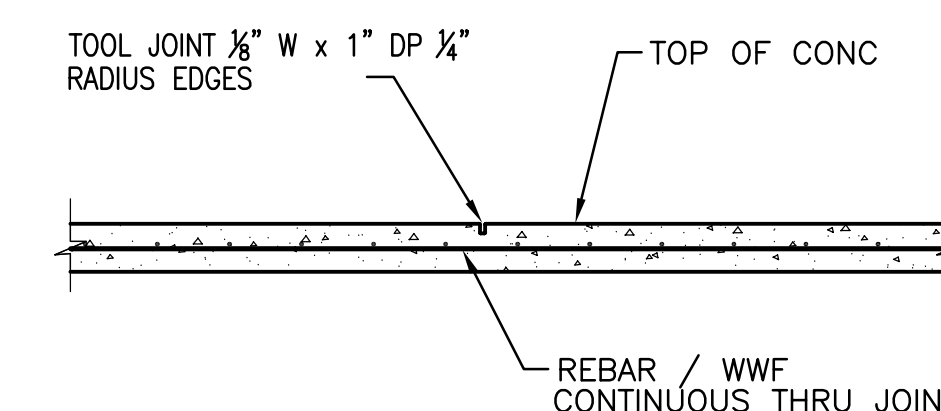
2 ASPHALT PATCH SECTION
CP101 | C501 NOT TO SCALE



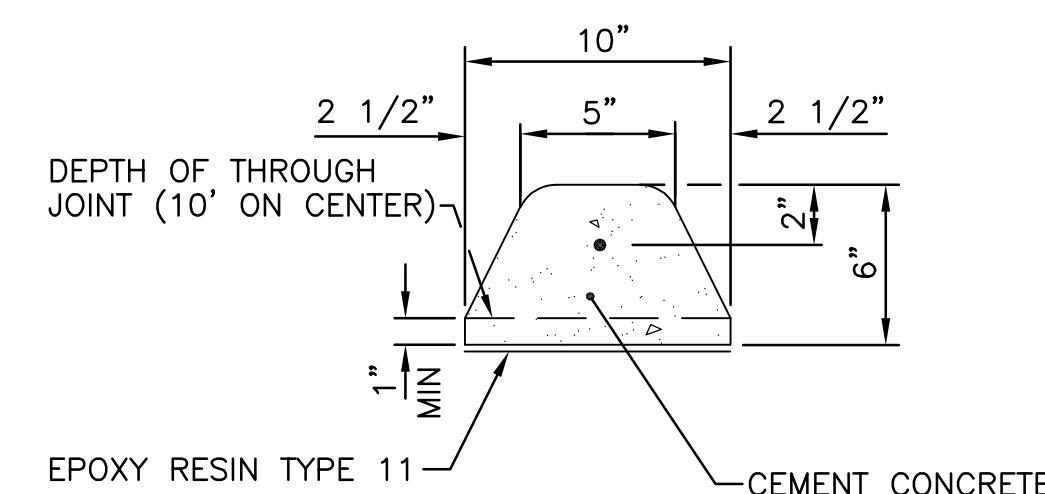
 TYPICAL TRENCH
PLASTIC SEWER & STORM PIPE
CU101|C501 NOT TO SCALE



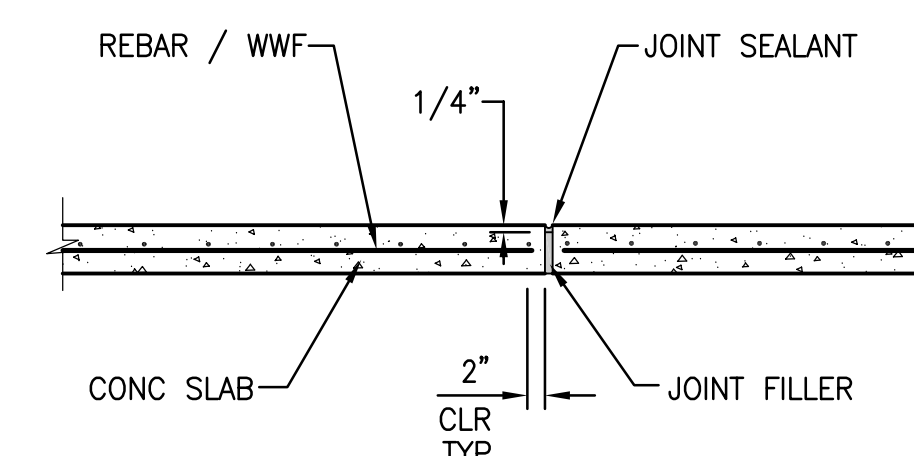
3
CP101 | C501
TYPICAL CONCRETE PAVEMENT SECTION
NOT TO SCALE



4 TYPICAL CONTROL JOINT
CP101|C501 NOT TO SCALE



SECTION-EXTRUDED CEMENT CONCRETE CURB



5 TYPICAL EXPANSION JOINT
CP101|C501 NOT TO SCALE

SRFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

163 VILLAGE COURT
MONROE, WA 98272

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SITE PLAN

SHEET #

A11.01

| # | NOTE DESCRIPTION |
|---|--|
| 1 | EXISTING GENERATOR TO REMAIN. |
| 2 | ENCLOSED SHED FOR TEST PIT EQUIPMENT. <u>OF01</u> |
| 3 | CONCRETE APRON. SEE CIVIL DRAWING. |
| 4 | CARPART [ALTERNATE NO. 1, DEFERRED SUBMITTAL]. REMOVE EXISTING CONEX BOXES & ASSOCIATED CONCRETE FOUNDATIONS AS NEW PRE-ENGINEERED METAL BUILDING CARPORT. PROVIDE LIGHTING ELECTRICAL WIRING/CONDUIT FOR POWER. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. |
| 5 | EXISTING PUMP TEST PIT TO REMAIN. |
| 6 | CONCRETE SLAB. SEE CIVIL FOR MORE. [ALTERNATE NO. 1, DEFERRED SUBMITTAL]. |

1. REFERENCE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

DRIVEWAY/ SIDEWALK,
CONTROL JOINTS PER CIVL
DRAWINGS.

X—X—X (E) FENCING

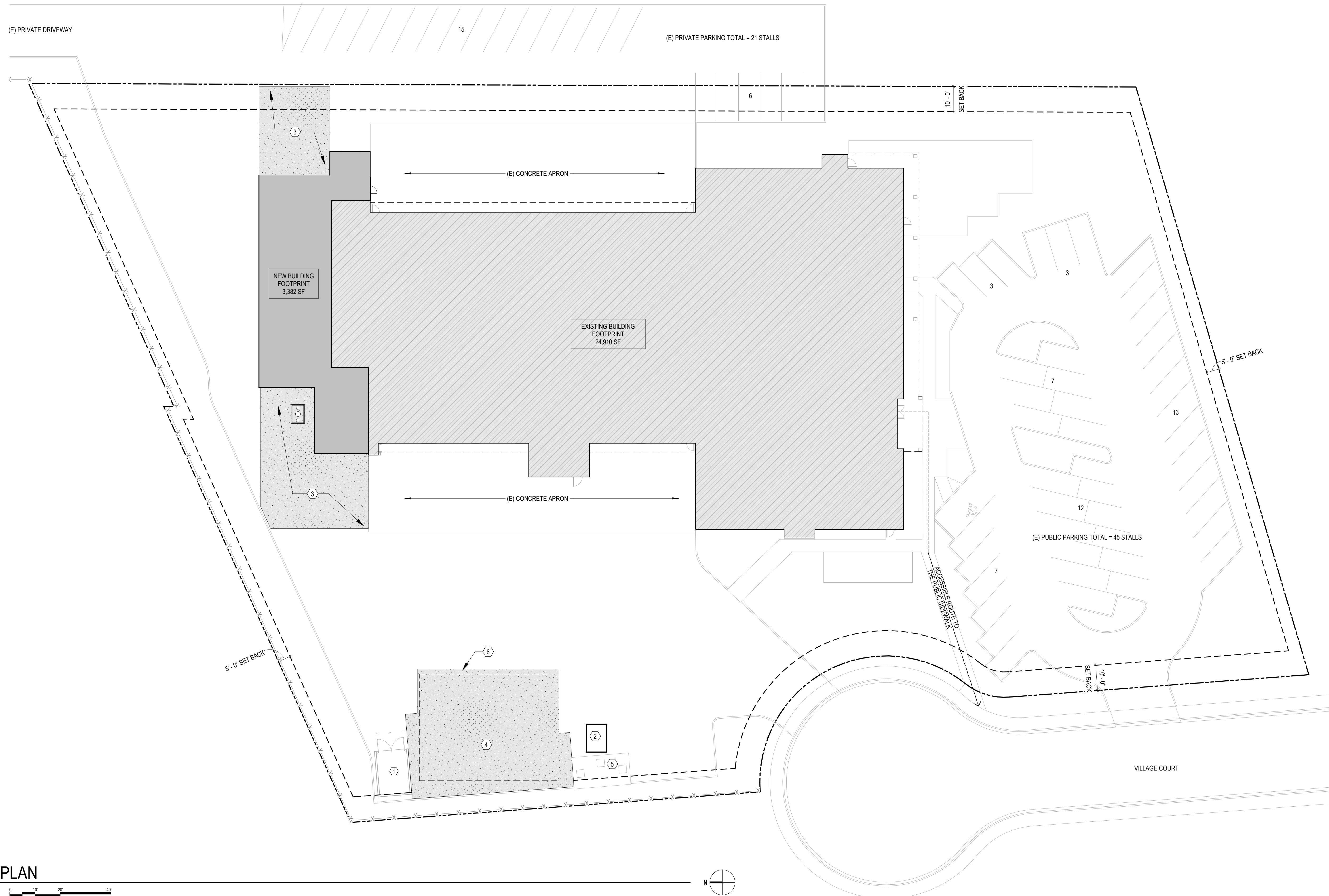
— — — — — PROPERTY LINE

— — — — — BUILDING SETBACK

———— BUILDING OUTLINE

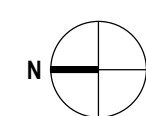
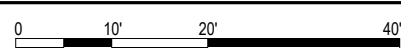
— — — — — ROOF OVERHANG

----- ACCESSIBLE ROUTE
(SEE A CONTINUATION OF
PATH INSIDE OF BUILDING)



1

SITE PLAN

$$1^{\circ} = 20'-0''$$


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| REVISION SCHEDULE | | | |
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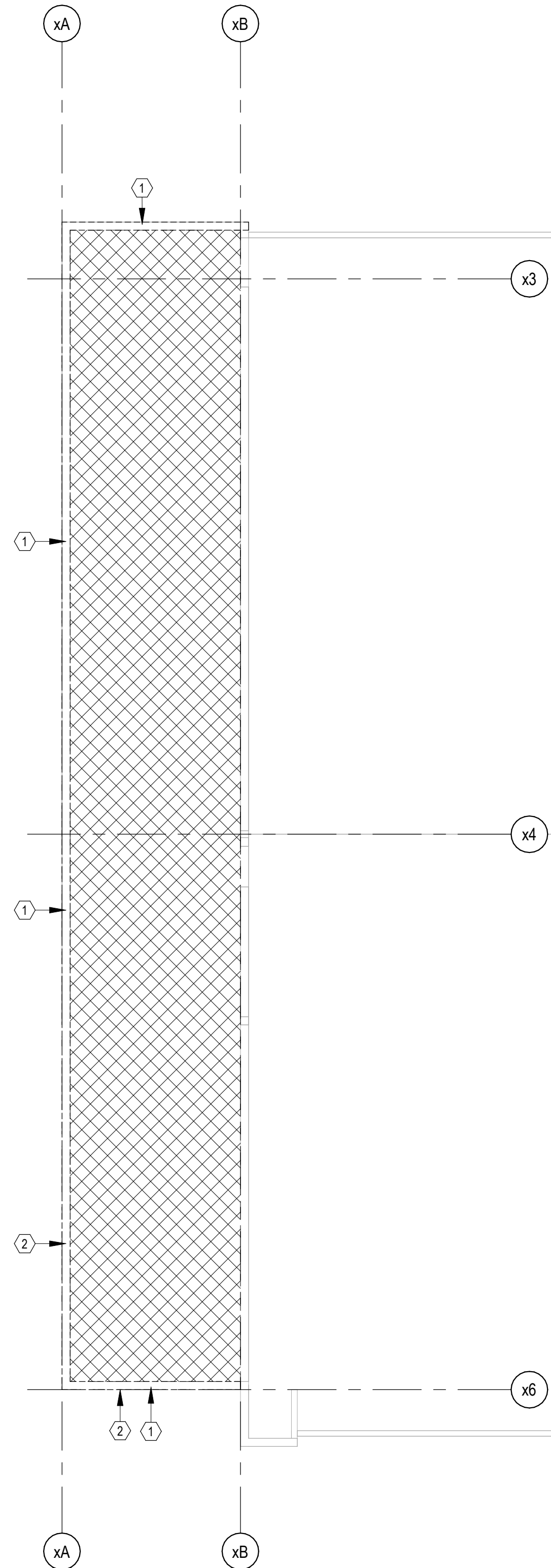
4 CARPORT PLAN (ALTERNATE BID)
1/8" = 1'-0"

| KEY NOTES - DEMO ROOF PLAN | |
|----------------------------|---|
| # | NOTE DESCRIPTION |
| 1 | REMOVE EXISTING METAL PARAPET WALL CAP. |
| 2 | REMOVE EXISTING METAL WALL PANEL WALL IN ITS ENTIRETY AT EXISTING COVERED MAINTENANCE AREA. |

NOTES & LEGEND - DEMO ROOF PLAN

1. FIELD VERIFY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO BEGINNING WORK.
2. PRESERVE AND PROTECT EXISTING CONSTRUCTION AND LIFE SAFETY SYSTEMS TO REMAIN.
3. SEE OTHER DRAWING SHEETS FOR ADDITIONAL DEMOLITION WORK.

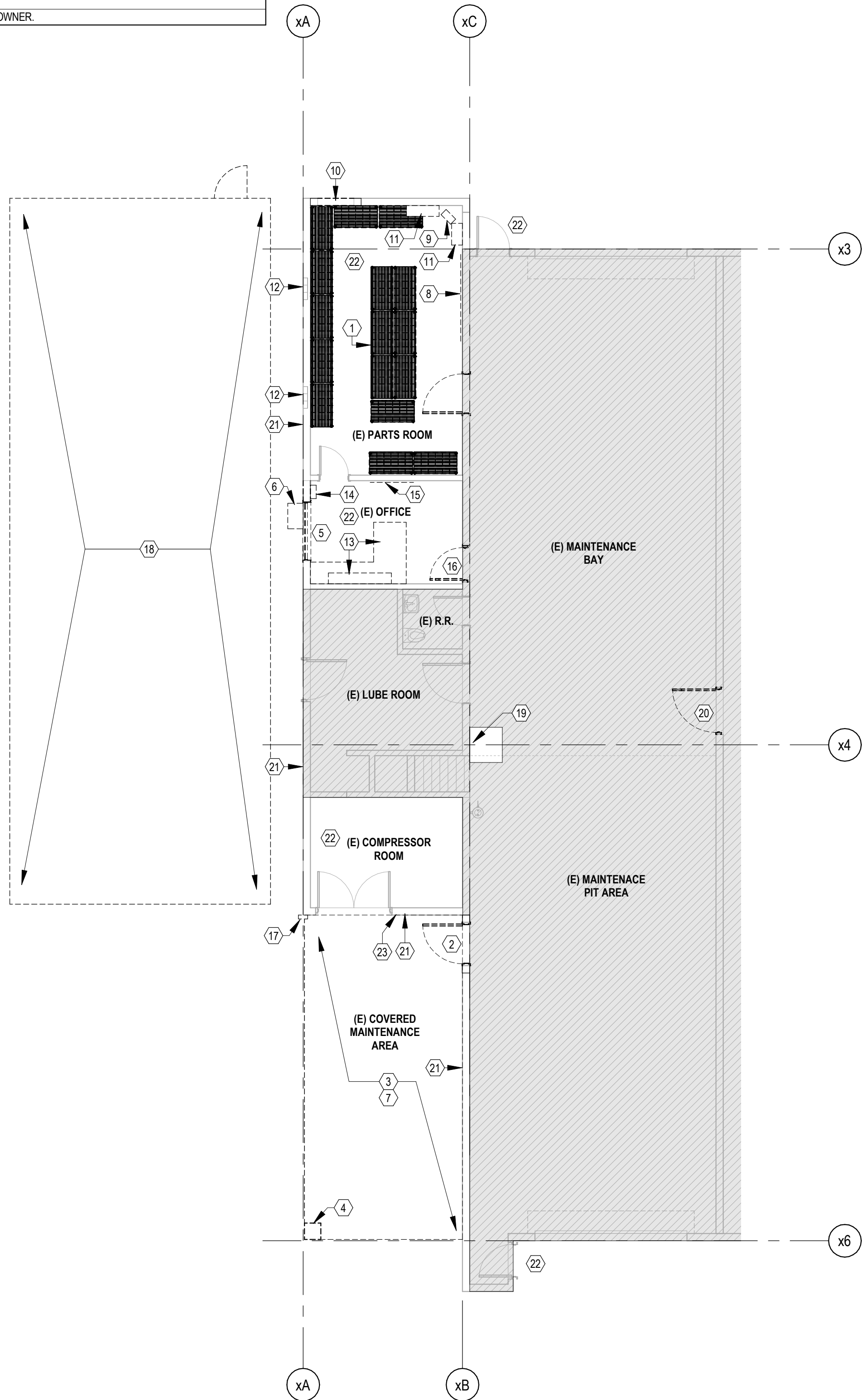
REMOVE EXISTING BUR MEMBRANE, COVERBOARD, RIGID INSULATION, & VAPOR BARRIER. SEE STRUCTURAL DRAWINGS FOR REMOVAL OF EXISTING PLYWOOD SHEATHING & ROOF FRAMING.



| KEY NOTES - DEMO PLAN | |
|-----------------------|--|
| # | NOTE DESCRIPTION |
| 1 | EXISTING SHELVING REMOVED BY OWNER, TYPICAL. |
| 2 | REMOVE EXISTING DOOR & CREATE LARGER MASONRY OPENING. |
| 3 | REMOVE EXISTING CONCRETE SLAB |
| 4 | REMOVE EXISTING COLUMN AND ASSOCIATED FOUNDATION/FOOTING. |
| 5 | REMOVE EXISTING WINDOW, WINDOW BLIND AND WALL BELOW FOR NEW DOOR. |
| 6 | REMOVE EXISTING WALL MOUNTED BRACKET SUPPORT & TURN OVER TO THE OWNER. |
| 7 | REMOVE EXISTING SOFFIT & ASSOCIATED FRAMING ABOVE. |
| 8 | EXISTING PEG BOARD TO REMAIN. |
| 9 | REMOVE ELECTRIC UNIT HEATER. |
| 10 | CREATE OPENING IN EXISTING WALL FOR NEW DOOR. |
| 11 | SALVAGE EXISTING WALL MOUNTED METAL SHELVES & TURN THEM OVER TO THE OWNER. |
| 12 | EXISTING GLASS BLOCK WINDOW TO REMAIN. |
| 13 | REMOVE EXISTING DESK & WALL MOUNTED OPEN CUBBY. |
| 14 | SALVAGE EXISTING WALL MOUNTED METAL STORAGE CABINET FOR REUSE IN NEW CONSTRUCTION. |
| 15 | SALVAGE EXISTING MARKER BOARD FOR REUSE IN NEW CONSTRUCTION. |
| 16 | REMOVE EXISTING DOOR & FRAME. |
| 17 | SEE ELECTRICAL FOR DEMOLITION OF EXISTING ELECTRICAL PANEL. |
| 18 | EXISTING TENT STRUCTURE REMOVED BY THE OWNER. |
| 19 | PREP AND DEMO AS NEEDED TO REROUTE ELECTRICAL CONDUITS AND SPRINKLER LINE AROUND NEW COLUMN. |
| 20 | REMOVE EXISTING DOOR, FRAME & HARDWARE. EXISTING CARD READER TO REMAIN. |
| 21 | REMOVE DIRT, STAIN, MOSS FROM EXISTING EXISTING EXTERIOR WALL SURFACES. |
| 22 | CONTRACTOR TO REVIEW MEP DRAWINGS FOR SCOPE OF WORK & PROVIDE PARTIAL CEILING (OR SOFFIT) DEMOLITION IN THIS AREA. |
| 23 | SALVAGE EXISTING CONVEX MIRROR & TURN IT OVER TO OWNER. |

NOTES & LEGEND - DEMO PLAN

1. FIELD VERIFY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO BEGINNING WORK.
2. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC AT AREAS OF WORK.
3. PRESERVE AND PROTECT EXISTING CONSTRUCTION AND LIFE SAFETY SYSTEMS TO REMAIN.
4. COORDINATE REMOVAL AND STORAGE OF EXISTING FURNITURE, FIXTURES, EQUIPMENT AND ASSOCIATED HARDWARE TO BE SALVAGED AND STORED DURING CONSTRUCTION WITH OWNER.
5. SEE OTHER DRAWING SHEETS FOR ADDITIONAL DEMOLITION WORK.



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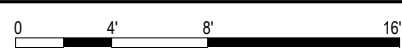
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| PROJECT # | | 2022073 |
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| 2 | PERMIT REVISION 2 | 1/18/24 |
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DEMOLITION FLOOR
PLAN - LEVEL 1

SHEET #

A20.01



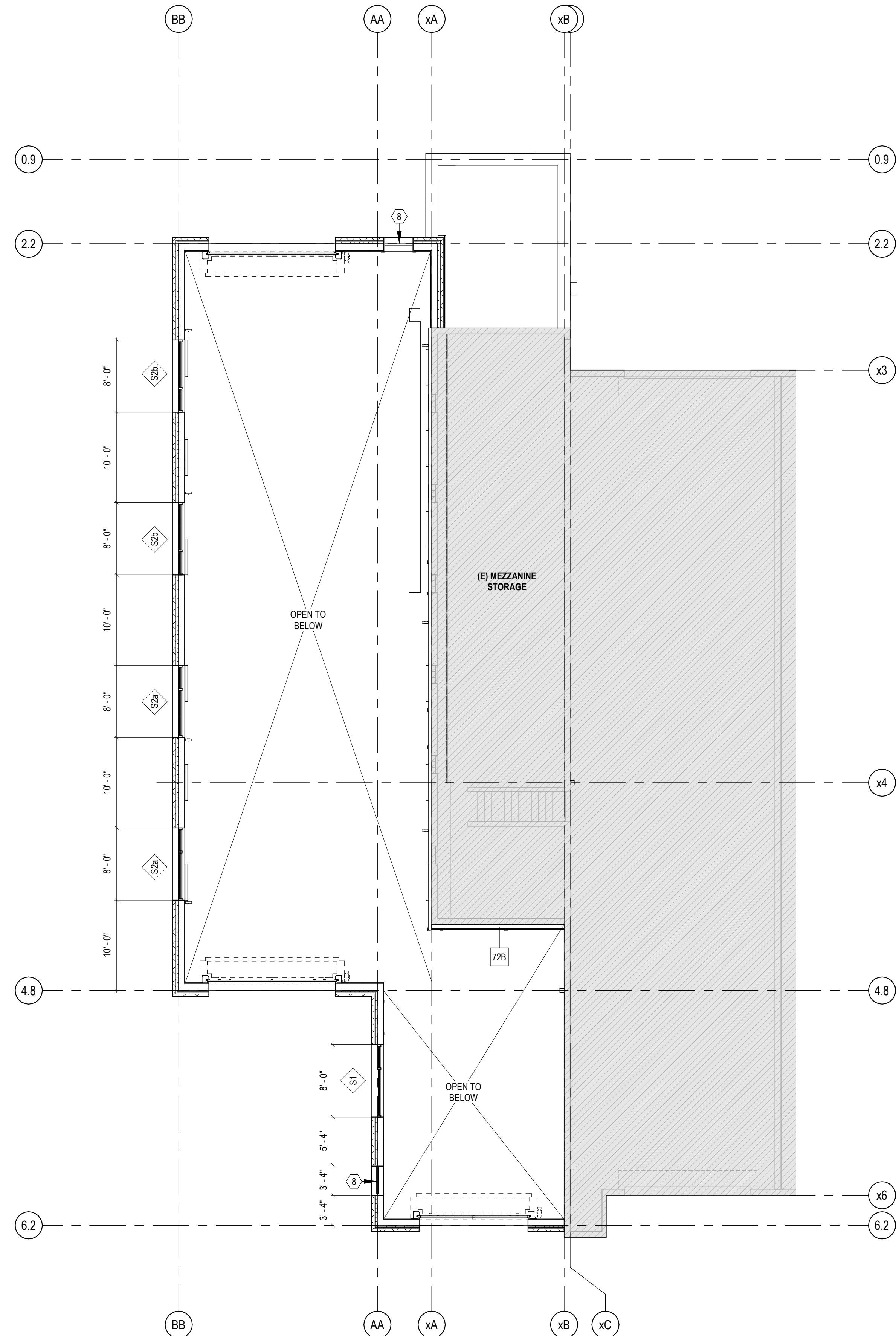
NOTES & LEGEND - FLOOR PLAN

- DIMENSIONS ARE TO ROUGH FRAMING OR TO FACE OF EXISTING FINISHES. TYP UNO.
- DIMENSIONS INDICATED AS "MIN" OR "CLR" ARE FROM NEAREST FINISH SURFACE, INCLUDING TRIM.
- ROUGH DOOR OPENINGS ARE LOCATED 4" FROM NEAREST INTERSECTING WALL FRAMING, TYP UNO.



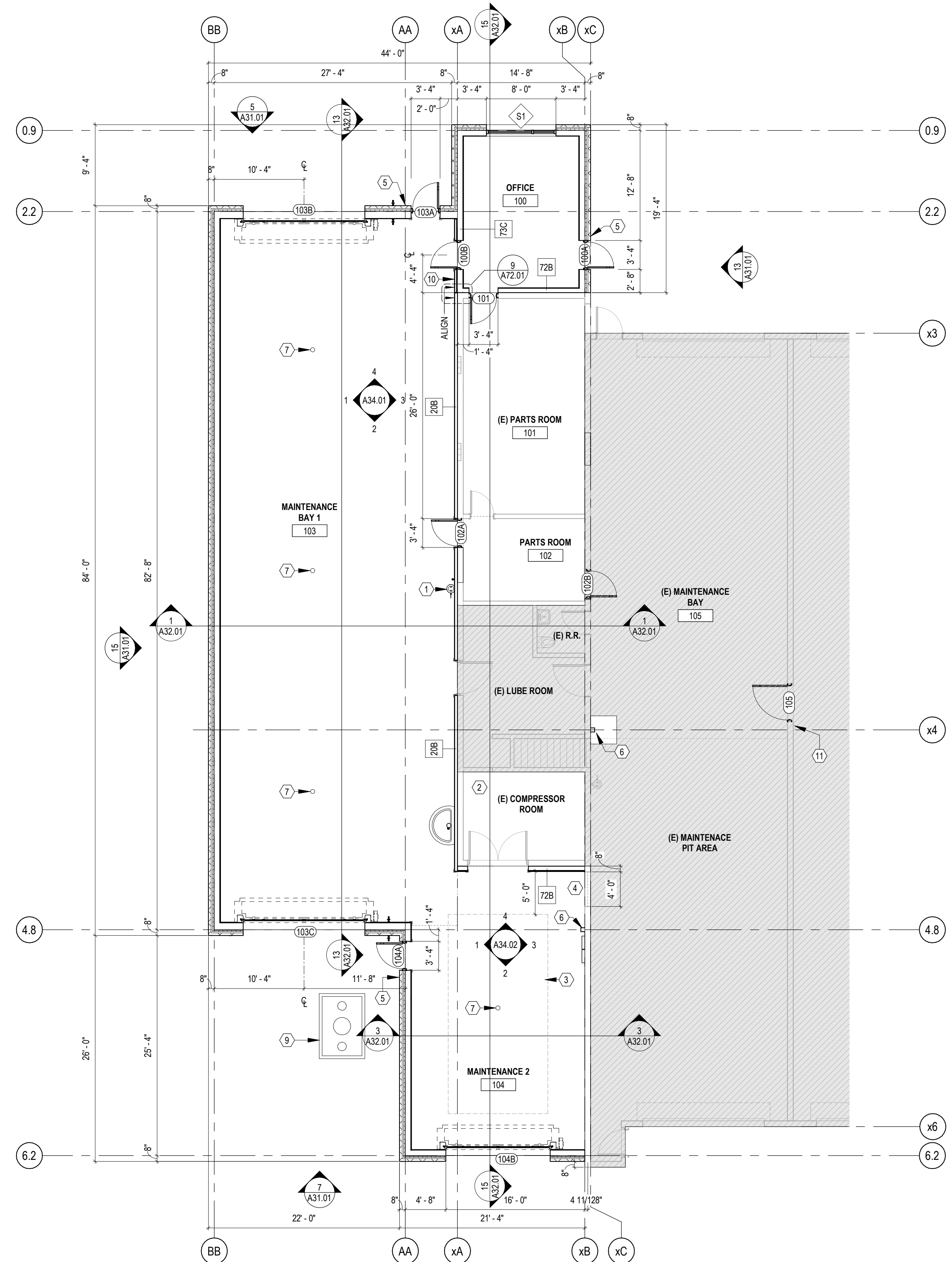
KEY NOTES - FLOOR PLAN

| # | NOTE DESCRIPTION |
|----|--|
| 1 | EYE WASH / SHOWER |
| 2 | REROUTE EXISTING VENT TO ROOF. SEE MECH |
| 3 | NEW LIFT (14 TON OR UPTO 20 TON), OFCI. |
| 4 | 4'-0"W X 8'-0"H CLEAR OPENING. SEE STRCTURAL. |
| 5 | CARD ACCESS. |
| 6 | STEEL COLUMN. SEE STRUCTURAL. |
| 7 | FLOOR DRAIN. TYP. SEE PLUMBING DRAWINGS |
| 8 | MECHANICAL LOUVER. SEE MECHANICAL. |
| 9 | OIL WATER SEPARATOR. SEE MECHANICAL. |
| 10 | MODIFY FURRED WALL DEPTH FOR CONTINUOUS PLANE OF PLYWOOD LINER WITHOUT JOG. VERIFY IN FIELD. |
| 11 | EXISTING CARD ACCESS. |



13 FLOOR PLAN - (E) MEZZANINE



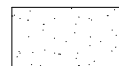


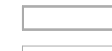




1/8" = 1'-0"



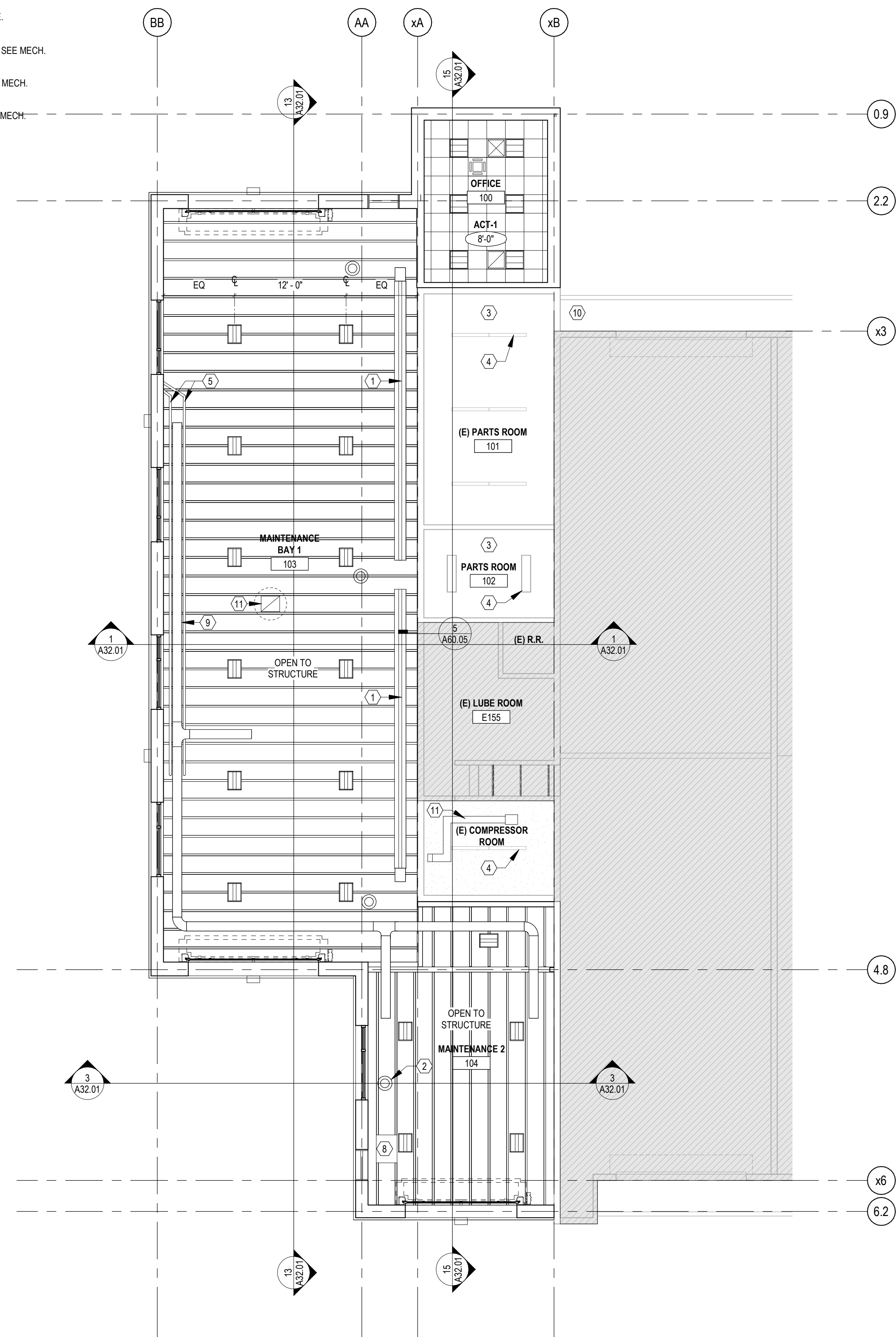
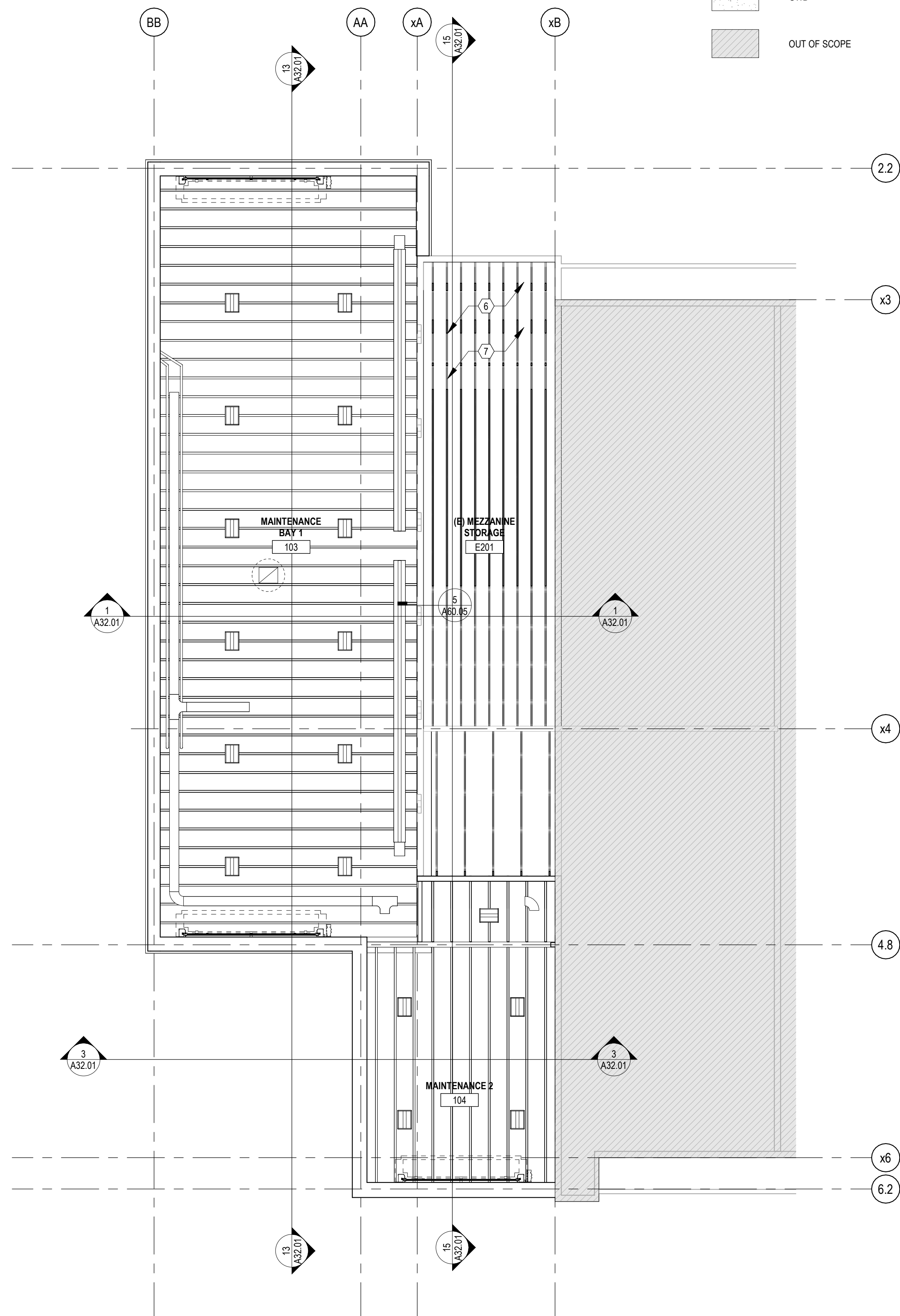
5 FLOOR PLAN - LEVEL 1

1/8" = 1'-0"

1. ARCHITECTURAL RCP PROVIDED FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR DETAILED SCOPE OF SYSTEMS.
2. CEILING FIXTURES ARE CENTERED IN CEILING TILE OR CENTERED IN ROOM, UNO.
3. DIMENSIONS IN CEILING PLANS ARE TO FACE OF FINISH, UNO.
4. GRAPHIC REPRESENTATION OF LIGHTING TYPES MAY BE NOT TO SCALE.

| CEILING | MEP | | |
|---|---|--------------|---|
|  |  | ACT 2X2 | RECESSED, 2X2. SEE ELEC. |
|  |  | GWB | PENDANT, HIGH BAY AREA LIGHT. SEE ELEC. |
|  |  | OUT OF SCOPE | EXISTING LIGHT FIXTURE. |
| |  | | DESTRATIFICATION FAN. SEE MECH. |
| |  | | DIFFUSER, RETURN. SEE MECH. |
| |  | | DIFFUSER, SUPPLY. SEE MECH. |
| |  | | HEAT PUMP. SEE MECH. |

| KEY NOTES - RCP | |
|-----------------|---|
| # | NOTE DESCRIPTION |
| 1 | INFRARED TUBE HEATER. SEE MECHANICAL. |
| 2 | DESTRATIFICATION FAN, TYP. SEE MECH. |
| 3 | PATCH TO MATCH EXISTING GWB CEILING. PAINT ENTIRE INTERIOR CEILING. SEE FINISH SCHEDULE. |
| 4 | EXISTING LIGHT FIXTURE TO REMAIN, TYP. |
| 5 | EXPOSED ROOF DRAIN LINES. SEE PLUMBING DRAWINGS |
| 6 | DEMO (E) SHEATHING PER STRUCTURAL. REMOVE AND PROTECT ANY (E) ITEMS, LIGHTS, CONDUIT, FOR REINSTALLATION. |
| 7 | NEW ROOF TRUSSES PER STRUCTURAL. PAINT NEW STRUCTURAL ELEMENTS AND SHEATHING TO MATCH EXISTING. |
| 8 | UNIT HEATER. SEE MECH. |
| 9 | PLYMOVENT EXHAUST DUCTS. SEE MECH. |
| 10 | PATCH TO MATCH EXISTING GWB SOFFIT. PAINT TOUCH UP TO MATCH EXISTING SEE FINISH SCHEDULE. |
| 11 | MECHANICAL DUCT. SEE MECH. |



2 REFLECTED CEILING PLAN - MEZZANINE

1 REFLECTED CEILING PLAN - LEVEL 1

SRFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

163 VILLAGE COURT
MONROE, WA 98272

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ROOF PLAN

SHEET #

A25.01

| # | NOTE DESCRIPTION |
|----|---|
| 1 | CRICKET. |
| 2 | ROOF ACCESS LADDER. |
| 3 | EXISTING CONEX & INSTALL NEW CURB AROUND EXISTING ROOF CURB. |
| 4 | MODIFY EXISTING STAIR FOR RAISED ROOF SURFACE. |
| 5 | EXISTING METAL ROOF TO REMAIN. |
| 6 | [ALTERNATE BID] REMOVE EXISTING ROOF DOWN TO THE EXISTING ROOF DECK. INSTALL NEW ROOF ASSEMBLY PER DETAILS. |
| 8 | [ALTERNATE BID] REMOVE EXISTING LADDER & REPLACE WITH OSHA COMPLIANT LADDER. SEE DETAILS. |
| 9 | [BASE BID] EXISTING ROOFING TO REMAIN. |
| 10 | ROOF TRANSITION CURB. BASE BID ONLY AND NOT REQUIRED FOR ALTERNATE BID. |
| 11 | MECHANICAL UNITS TO BE AT LEAST 10'-0" FROM ROOF EDGE. COORDINATE WITH MECHANICAL. |
| 12 | PATCH EXISTING EXTERIOR METAL WALL & PROPERLY SEAL AROUND ELECTRICAL PENETRATIONS. SEE ELECTRICAL. |
| 13 | EXISTING MECHANICAL UNIT. SEE MP DRAWING FOR MORE. |
| 14 | SEE PLUMBING FOR GAS PIPING ROUTING. COORDINATE WORK WITH OTHER TRADES. |

1. VERIFY EQUIPMENT CLEARANCES WITH MANUFACTURER REQUIREMENTS PRIOR TO INSTALL.
2. FIELD CONFIRM DIMENSIONS AND REPORT DISCREPANCIES, IF ANY, TO ARCHITECT PRIOR TO CONSTRUCTION
3. DIMENSIONS ARE FROM GRIDLINE, CENTERLINE OF ELEMENTS, OR FACE OF STRUCTURAL FRAMING, UNO.

1/4" / 12" ROOF SLOPE PER PLAN

 SOLAR READY ROOF AREA CHANGE IN ROOF ELEVATION

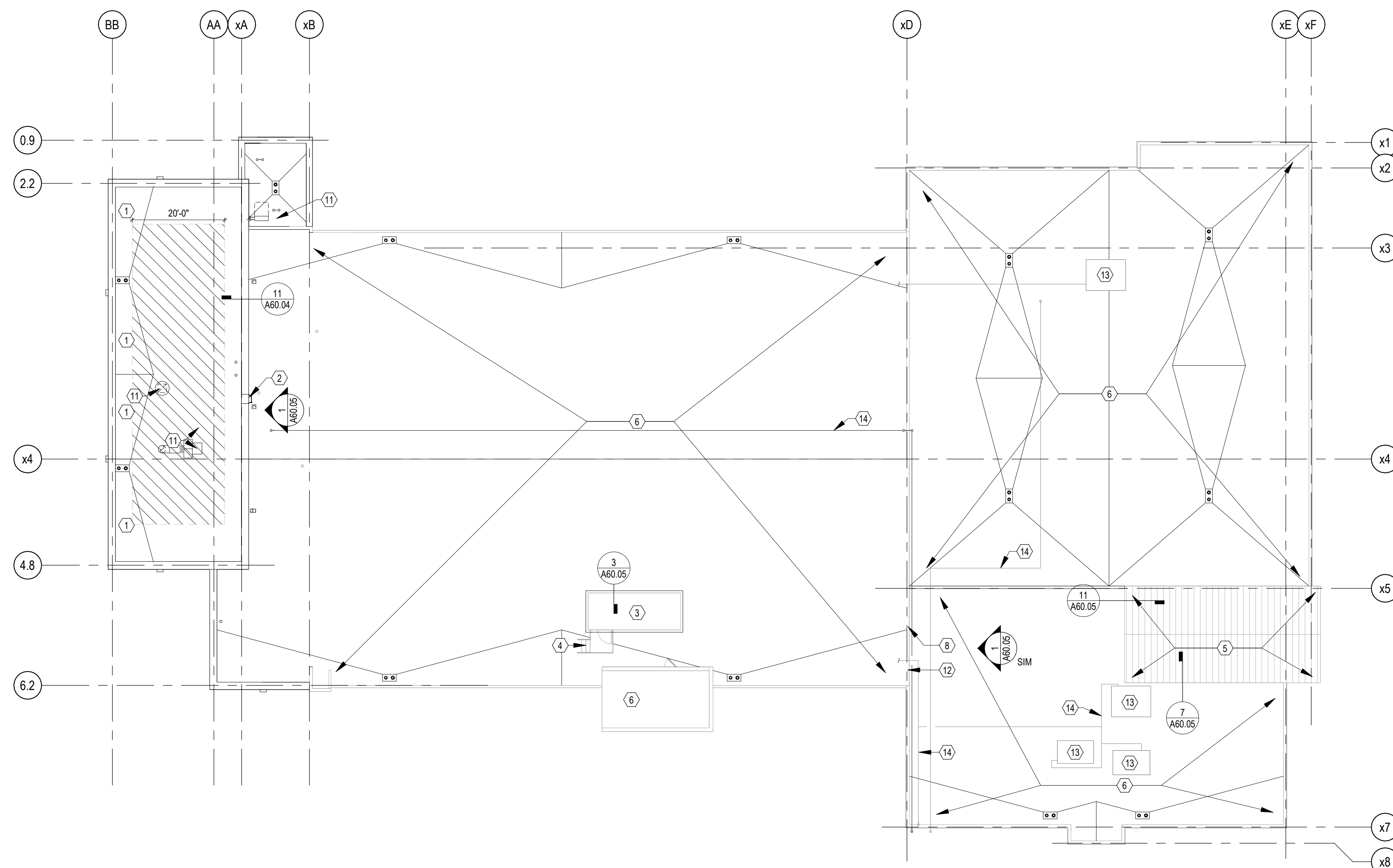
 EXISTING ROOF

 EXHAUST ROOF CAP. SEE MECH
/PLUMB.

 ROOF AND OVERFLOW DRAINS
SEE PLUMB.

↔ EXHAUST AND INTAKE
GOOSENECKS, SEE MECH

- FLUE CAP / VTR. SEE MECH / PLUMB.



NOTES:

1. THIS OVERALL ROOF PLAN SHOWS THE EXTENT OF ALTERNATE BID 2: RE-ROOF OF ENTIRE EXISTING MEMBRANE ROOF.

ROOF PLAN

1/8" = 1'-0"

[illegible]

SHEET #

1 BUILDING SECTION - MAINTENANCE 1 TRANSVERSE
1/8" = 1'-0"

SRFR 31 - SHOP ADDITION

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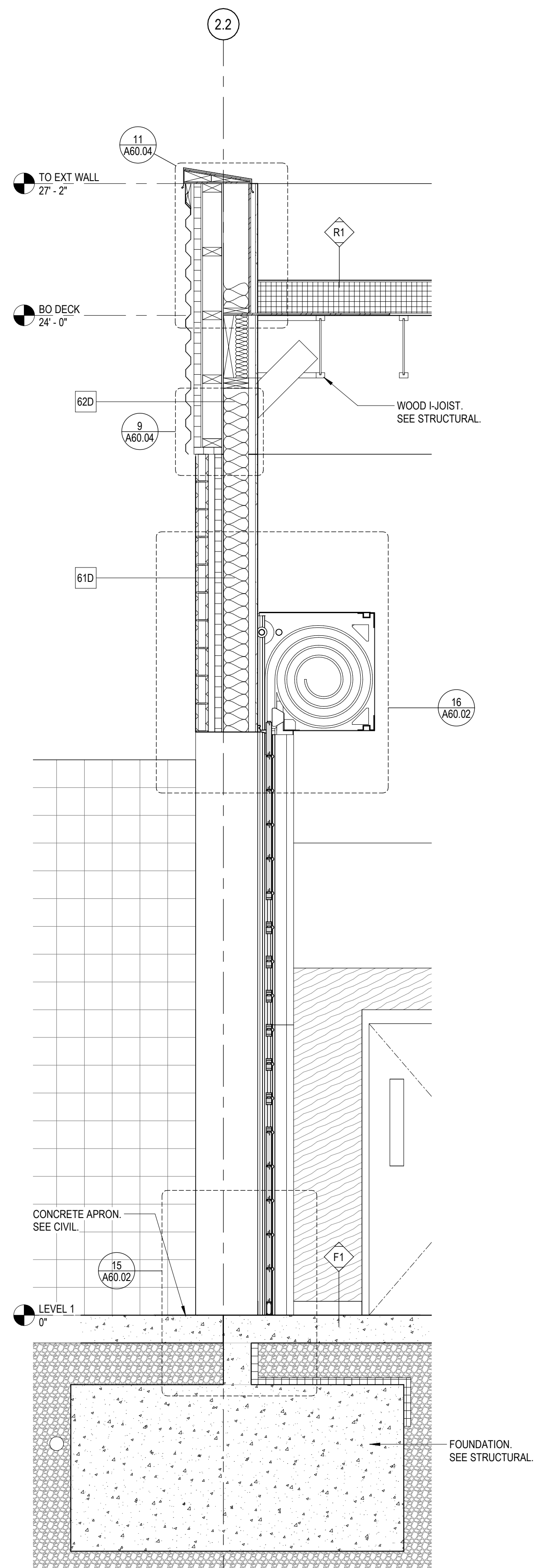
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WALL SECTIONS

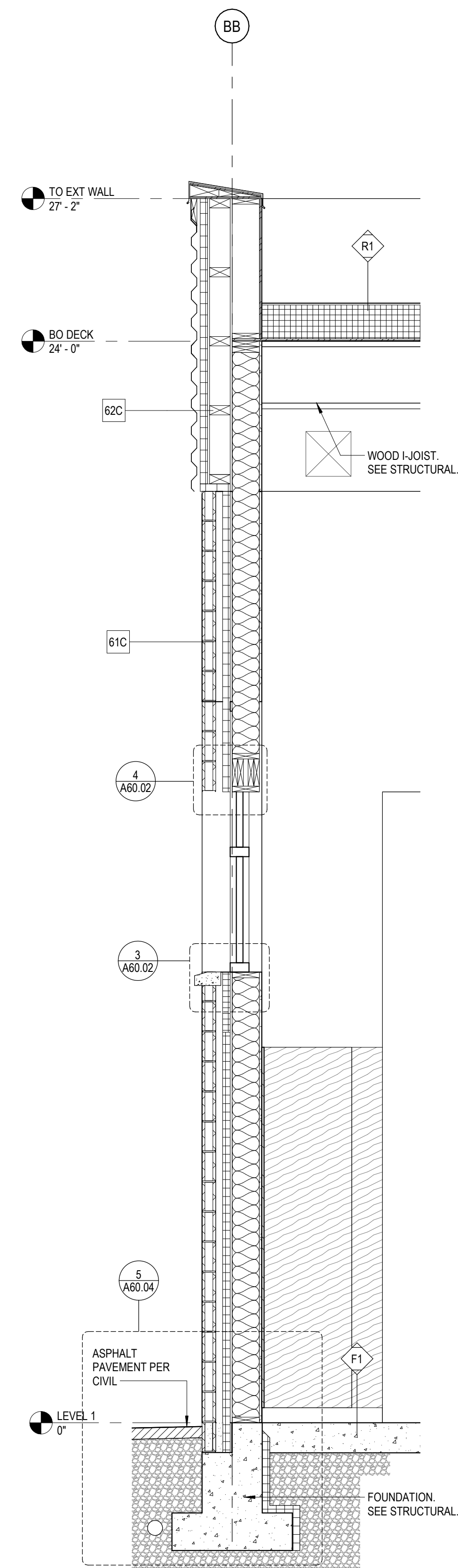
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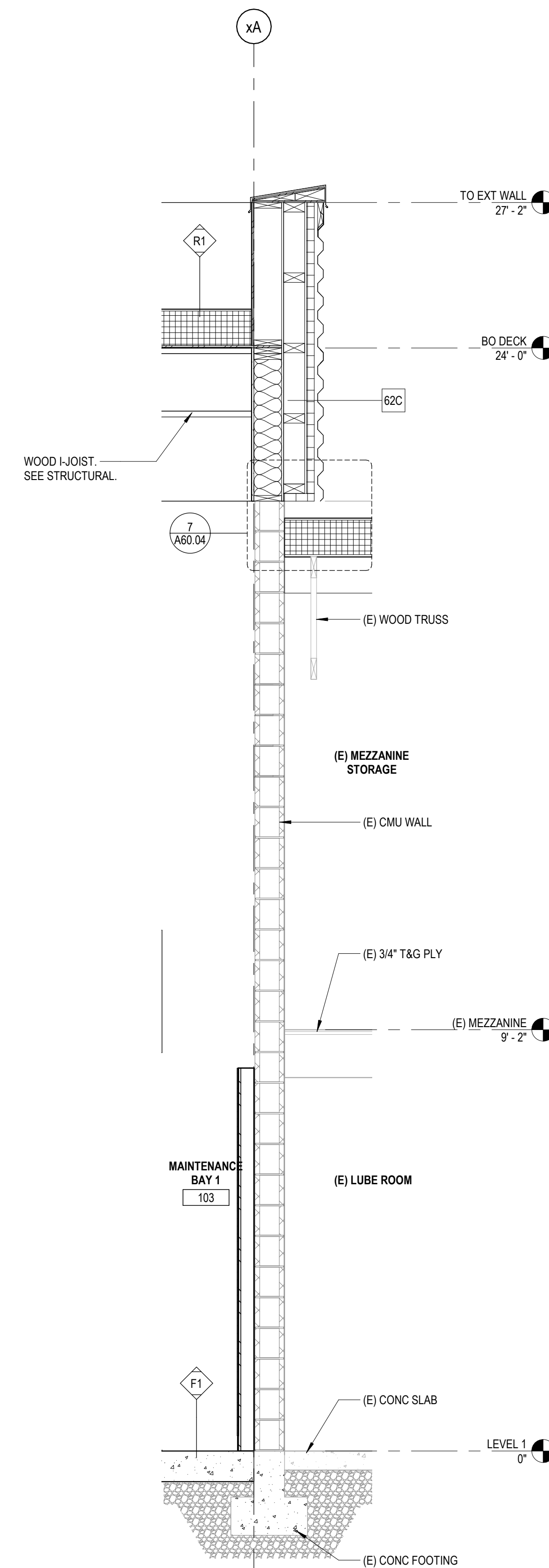
1. REFERENCE <ASSEMBLIES SERIES SHEETS> FOR ASSEMBLY TYPES AND CONSTRUCTION.



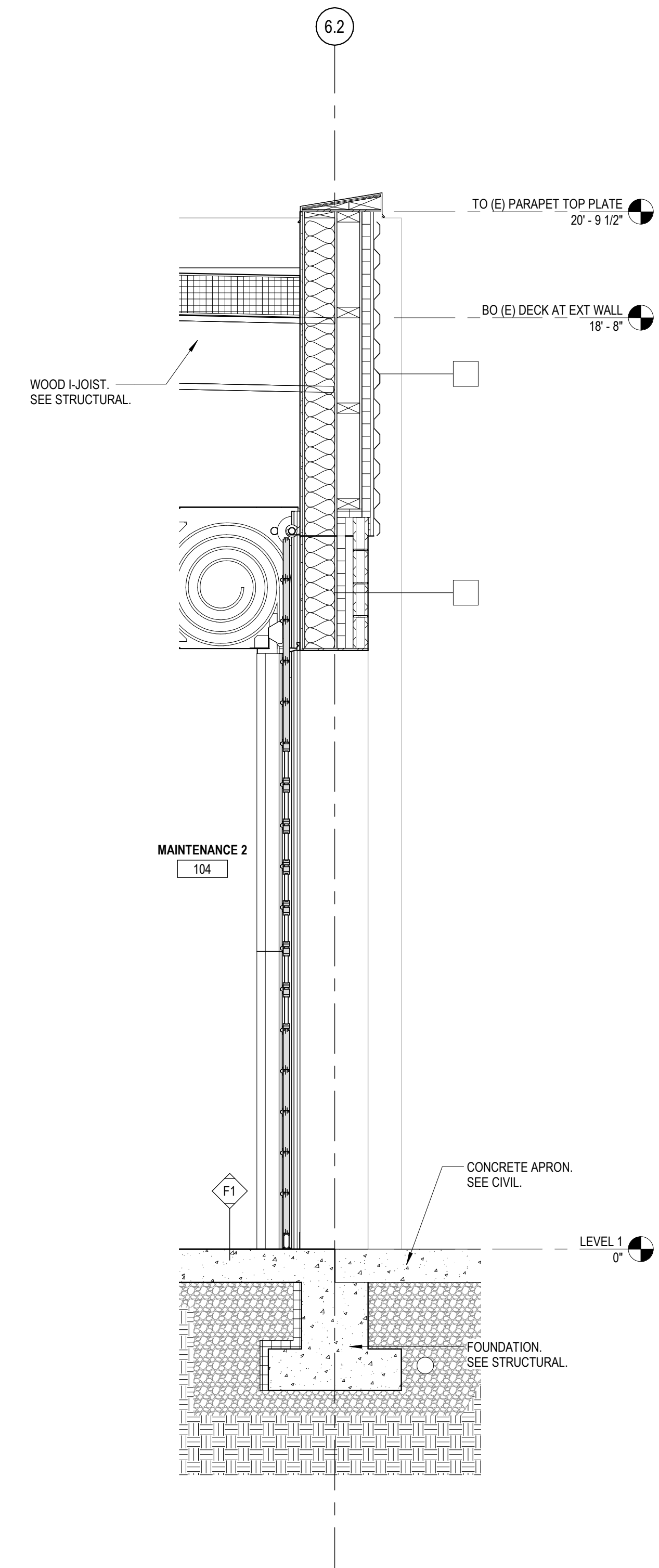
13 MAINTENANCE BAY 1 - EAST WALL
1/2" = 1'-0" REFERENCE 13 / A32.01



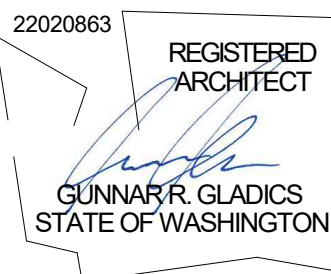
9 MAINTENANCE BAY 1 - NORTH WALL
1/2" = 1'-0" REFERENCE 1 / A32.01



5 MAINTENANCE BAY 1 - SOUTH WALL
1/2" = 1'-0" REFERENCE 1 / A32.01



1 MAINTENANCE BAY 2 - WEST WALL
1/2" = 1'-0" REFERENCE 15 / A32.01



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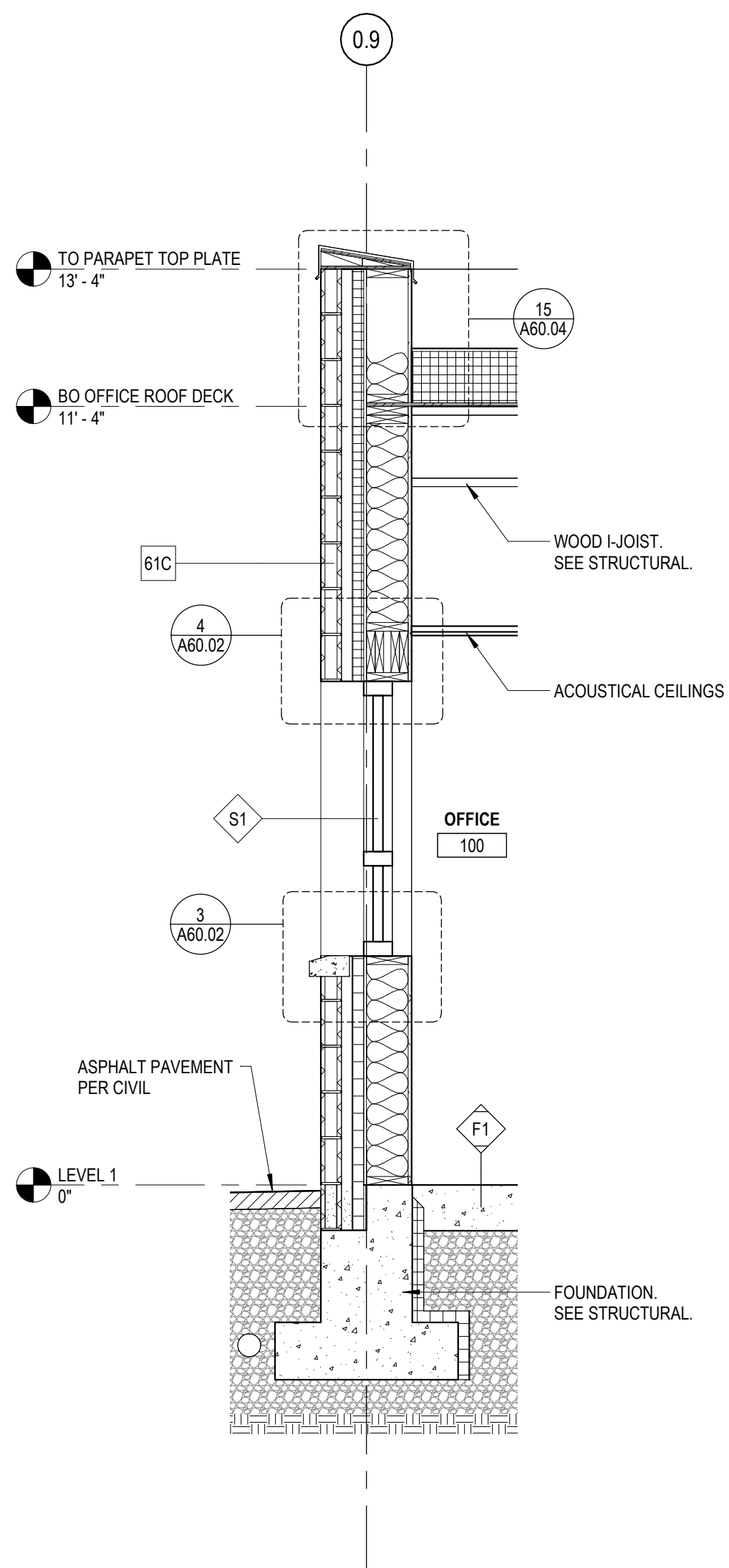
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AHJ APPROVAL STAMP

WALL SECTIONS

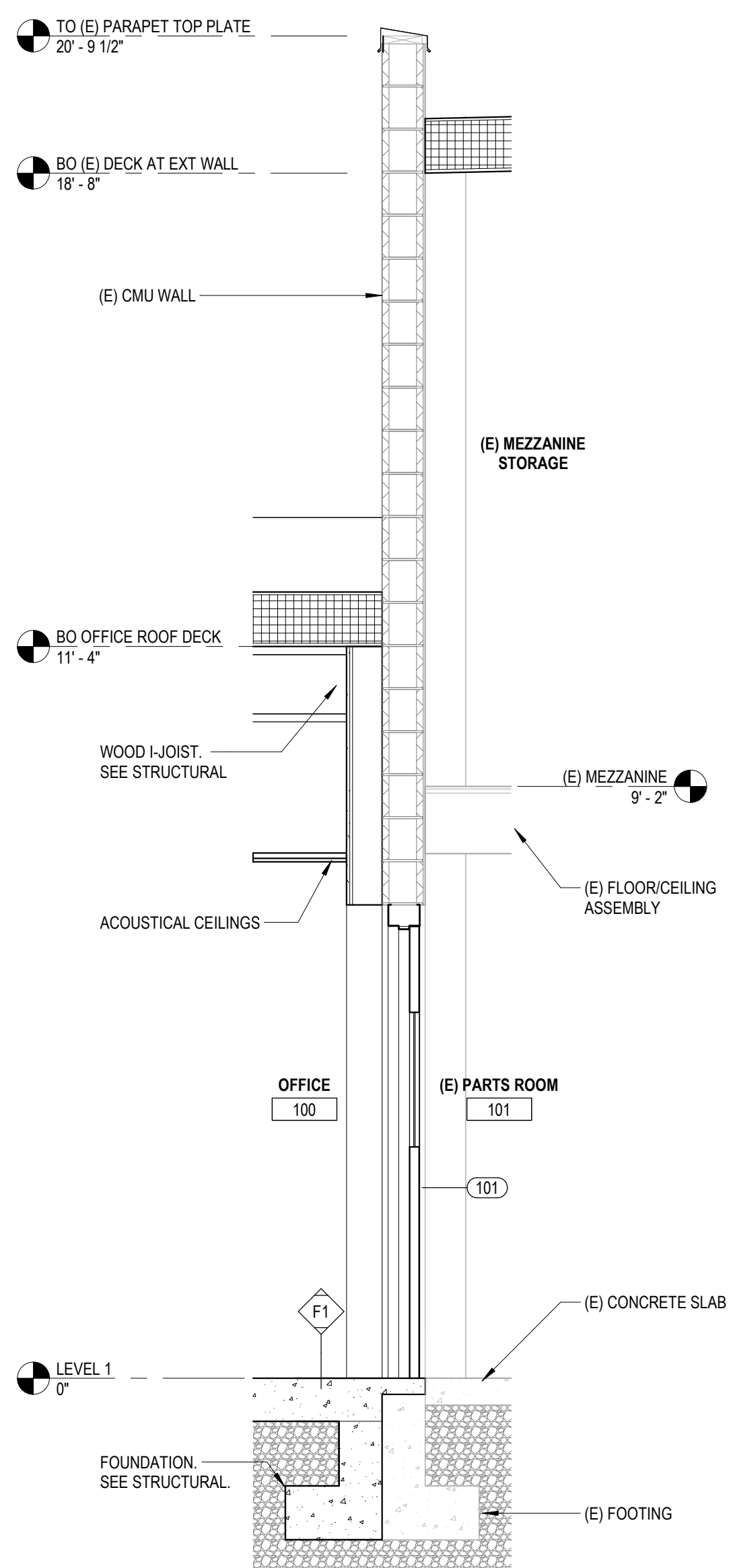
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A33.02



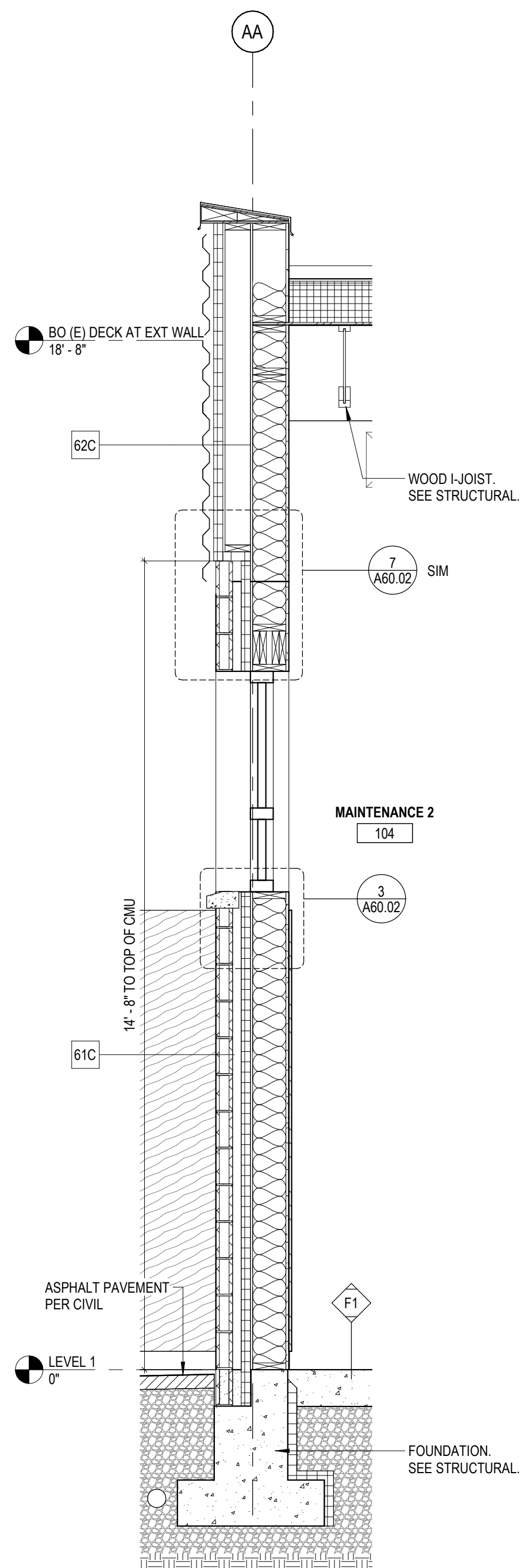
13 OFFICE - EAST WALL

1/2" = 1'-0" REFERENCE 15 / A32.01



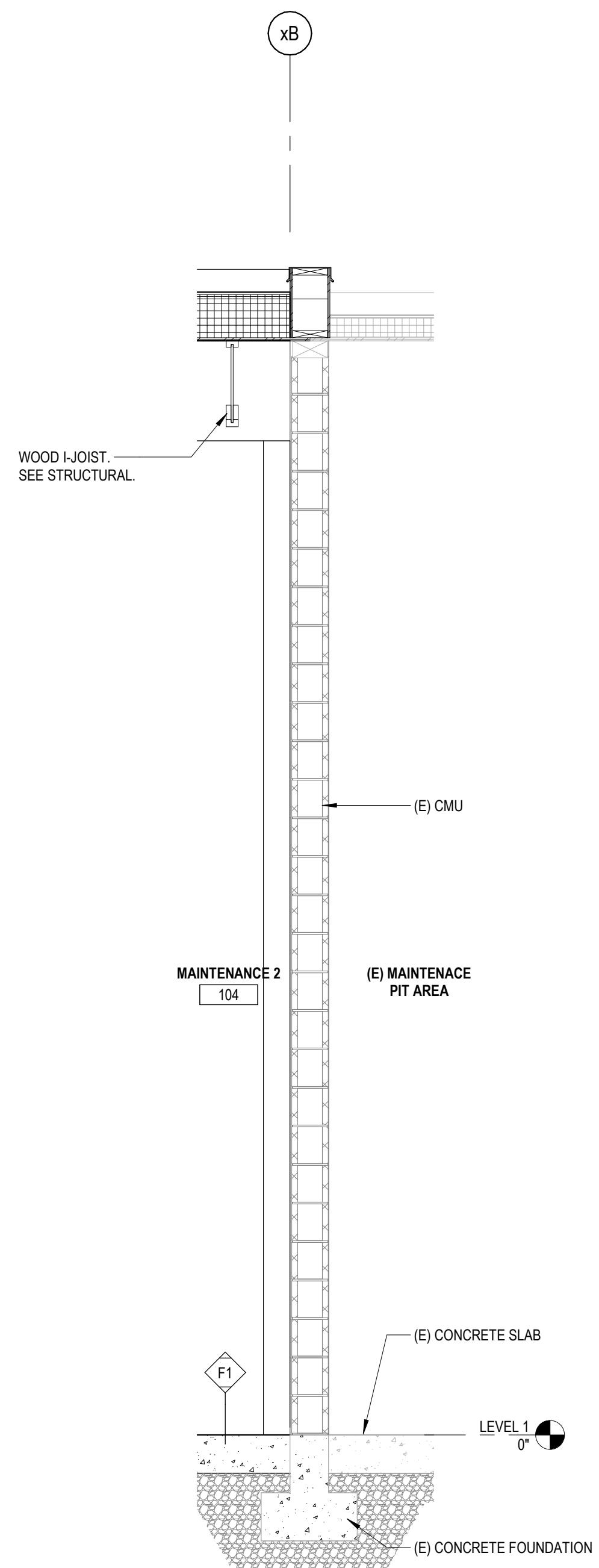
9 OFFICE - WEST WALL

1/2" = 1'-0" REFERENCE 15 / A32.01



5 MAINTENANCE BAY 2 - NORTH WALL

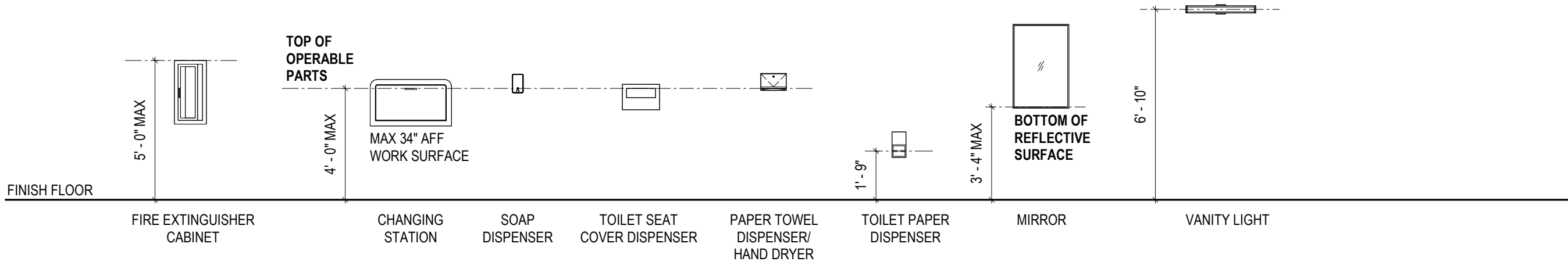
1/2" = 1'-0" REFERENCE 3 / A32.01



1 MAINTENANCE BAY 2 - SOUTH WALL

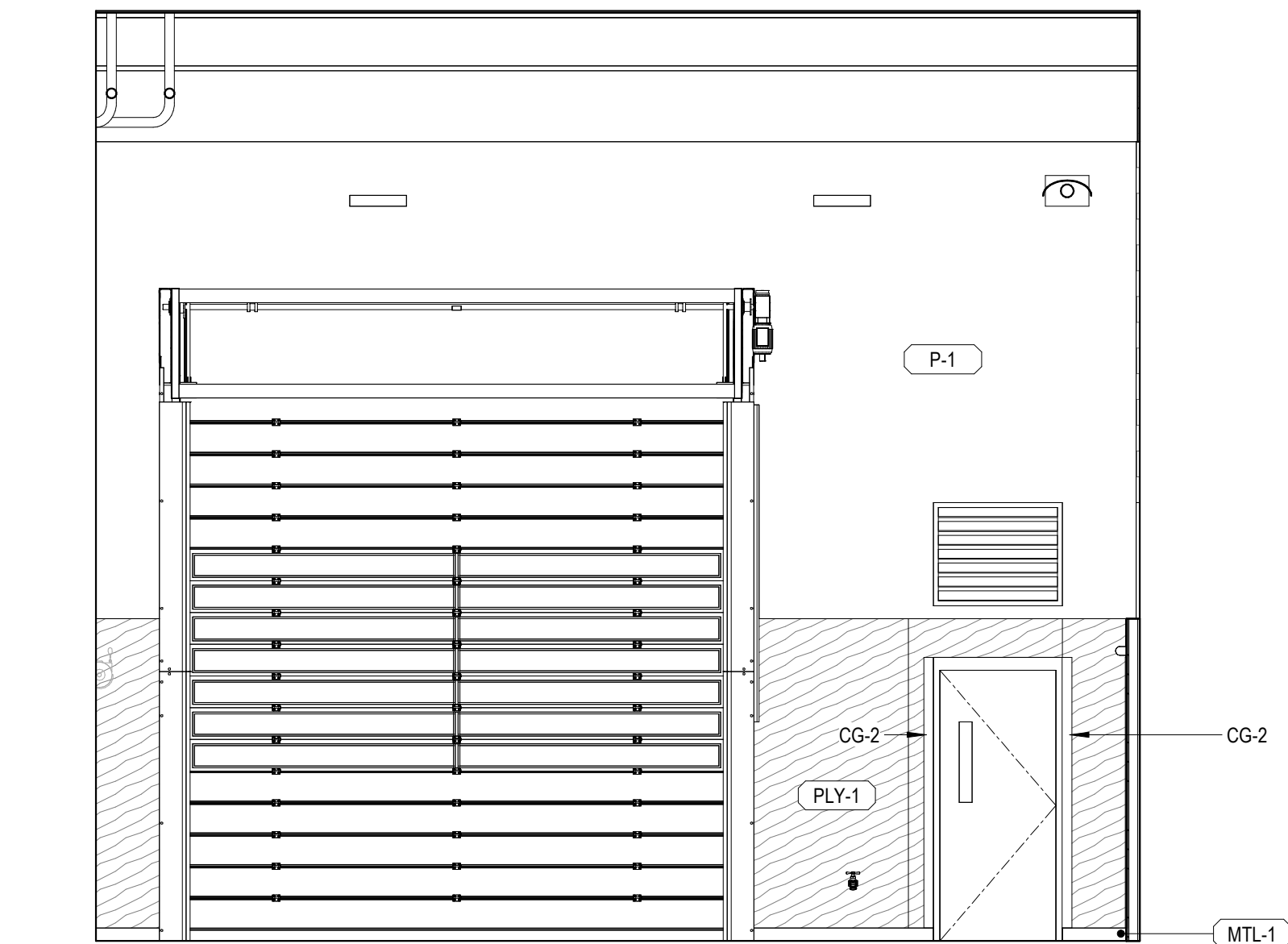
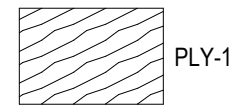
1/2" = 1'-0" REFERENCE 3 / A32.01

TYPICAL MOUNTING HEIGHTS

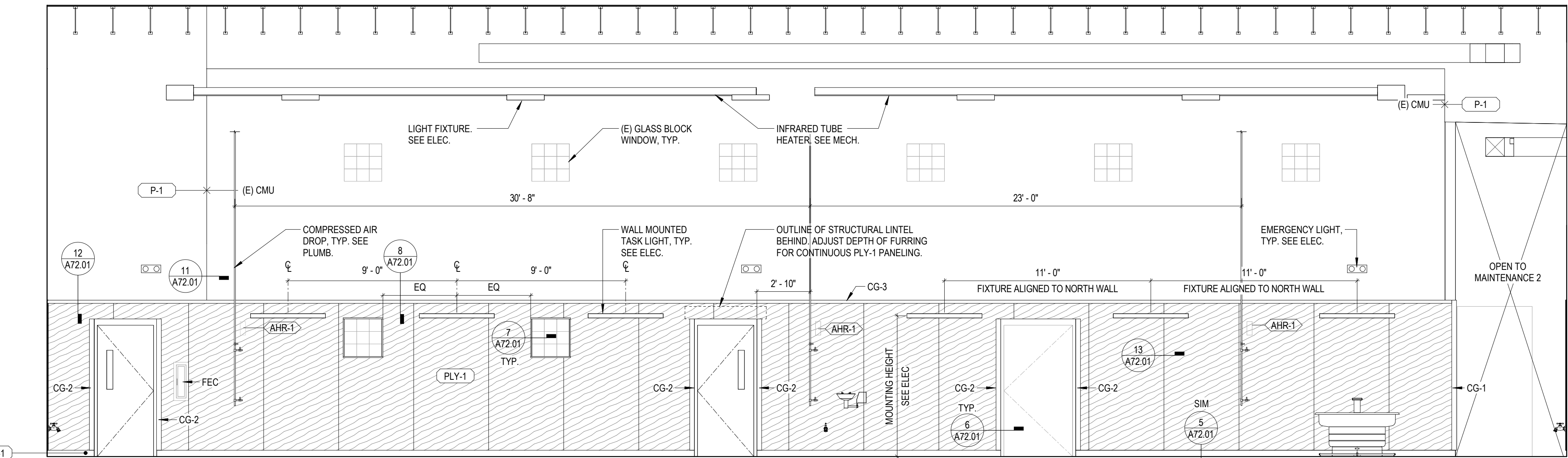


NOTES & LEGEND - INTERIOR ELEVATIONS

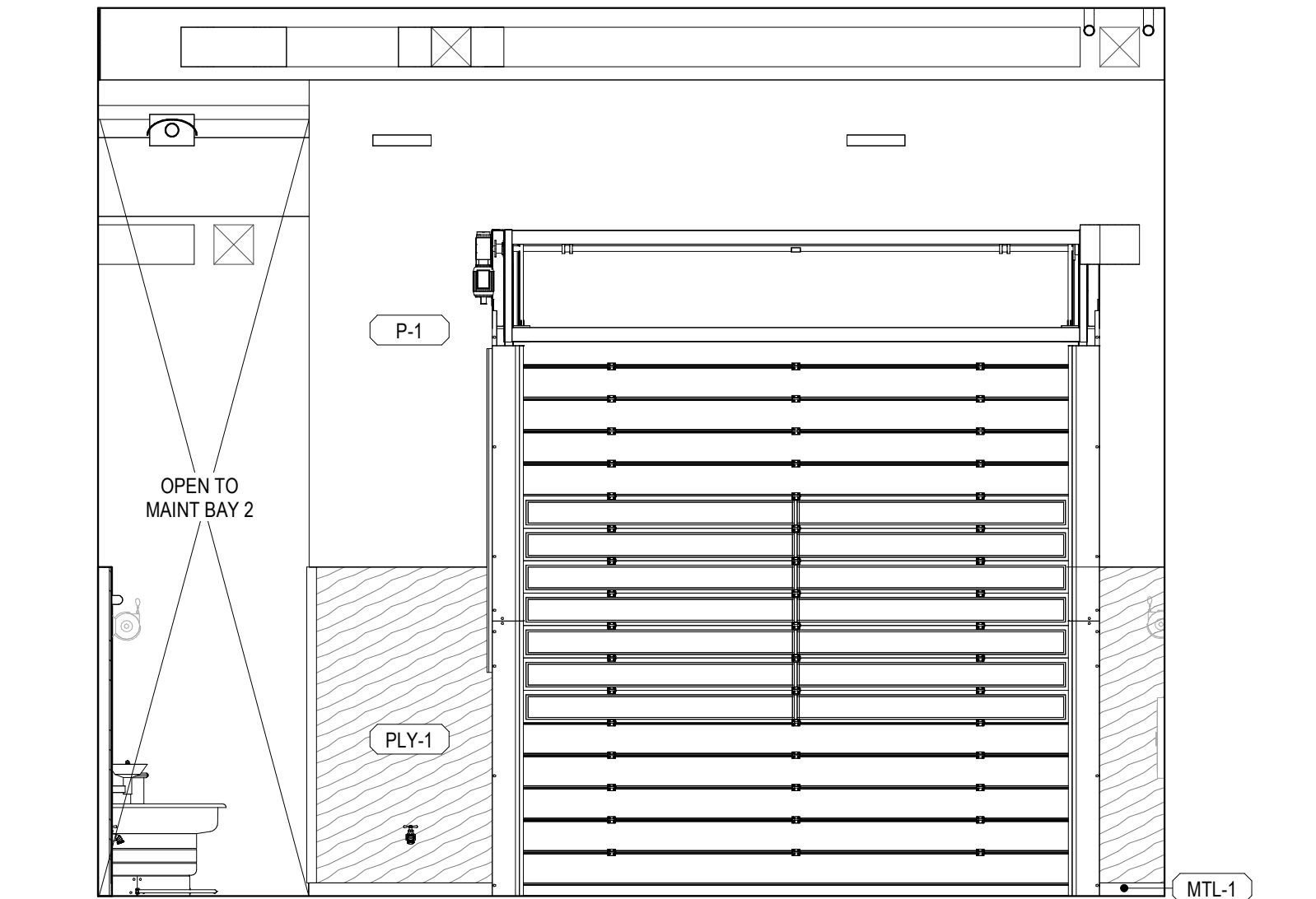
- 1. REFERENCE FINISH PLAN OR FINISH SCHEDULE FOR TYPICAL ROOM FINISHES NOT SHOWN.
- 2. REFERENCE TYPICAL MOUNTING HEIGHTS UNLESS MOUNTING HEIGHT IS NOTED OTHERWISE.
- 3. GRAPHIC REPRESENTATION OF MATERIALS AND/OR FIXTURES MAY NOT BE TO SCALE.
- 4. PROVIDE BLOCKINGS IN WALL FOR OWNER PROVIDED TOILET ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.



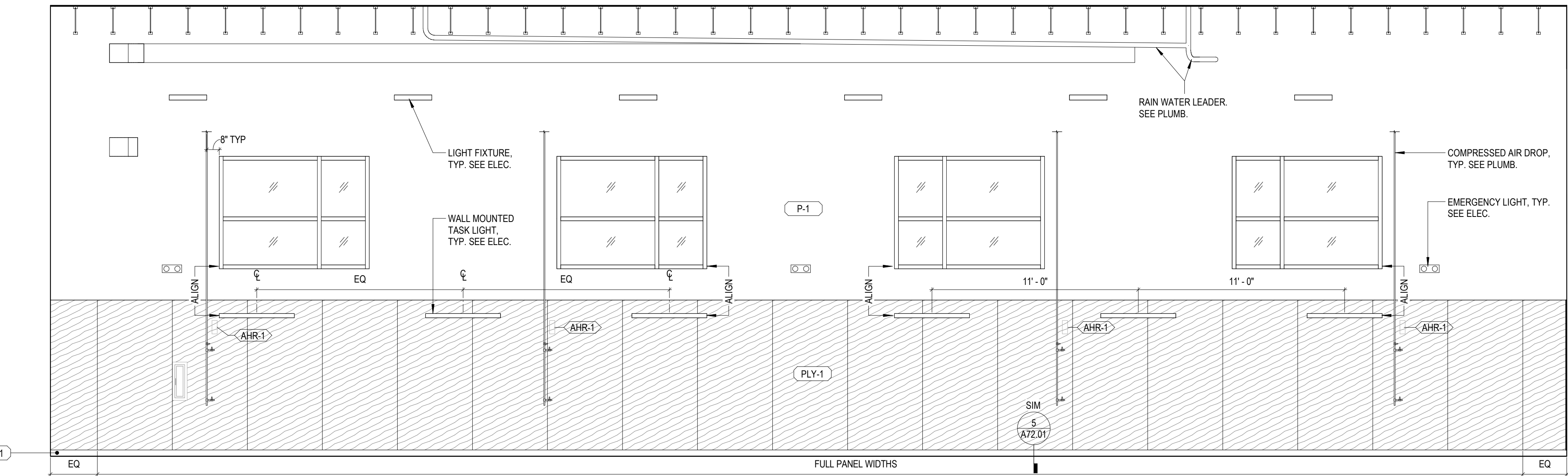
4 MAINTENANCE BAY 1 - EAST
1/4" = 1'-0"



3 MAINTENANCE BAY 1 - SOUTH
1/4" = 1'-0"



2 MAINTENANCE BAY 1 - WEST
1/4" = 1'-0"



1 MAINTENANCE BAY 1 - NORTH
1/4" = 1'-0"

SRFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

163 VILLAGE COURT
MONROE, WA 98272

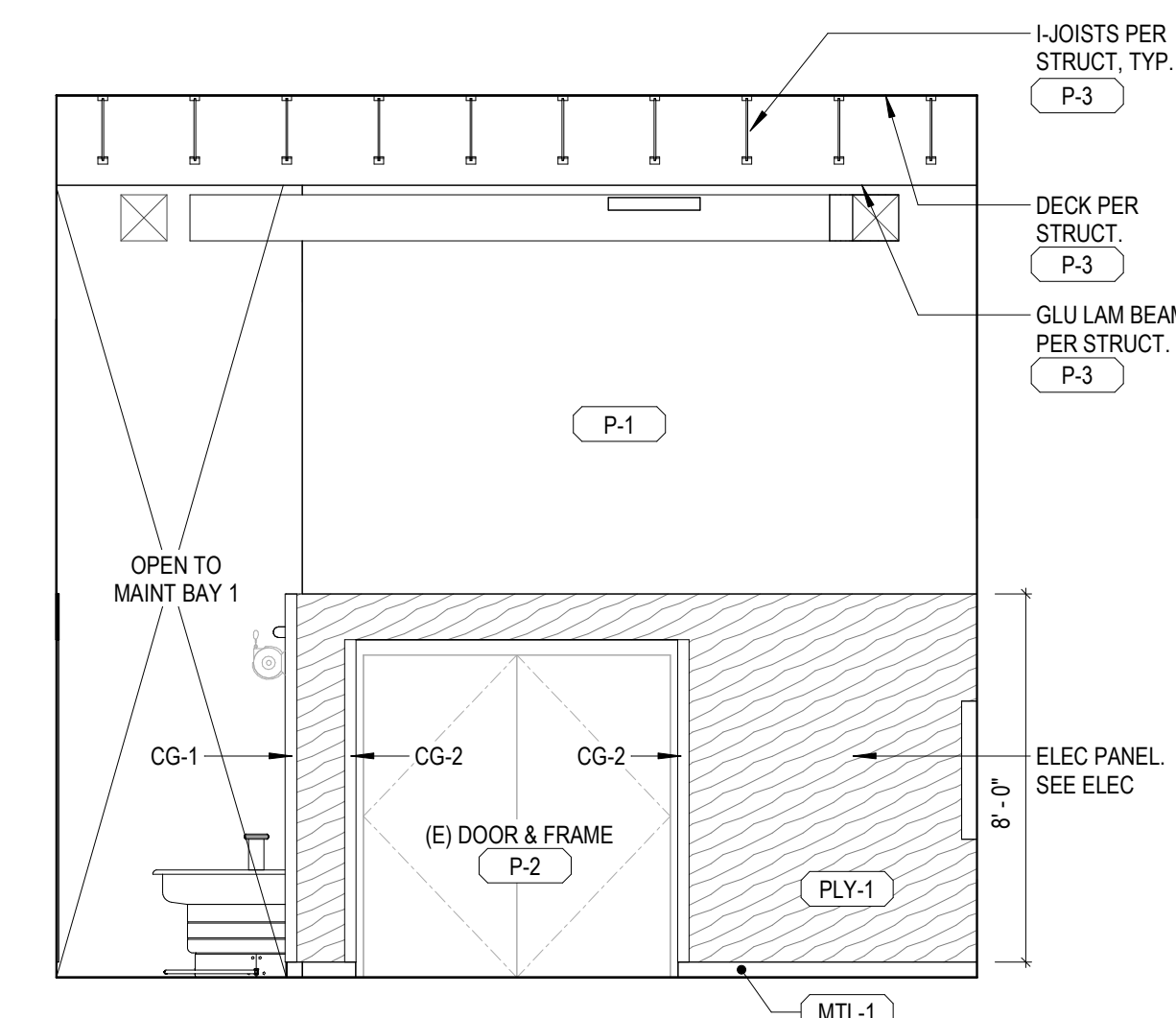
[illegible]

INTERIOR ELEVATIONS

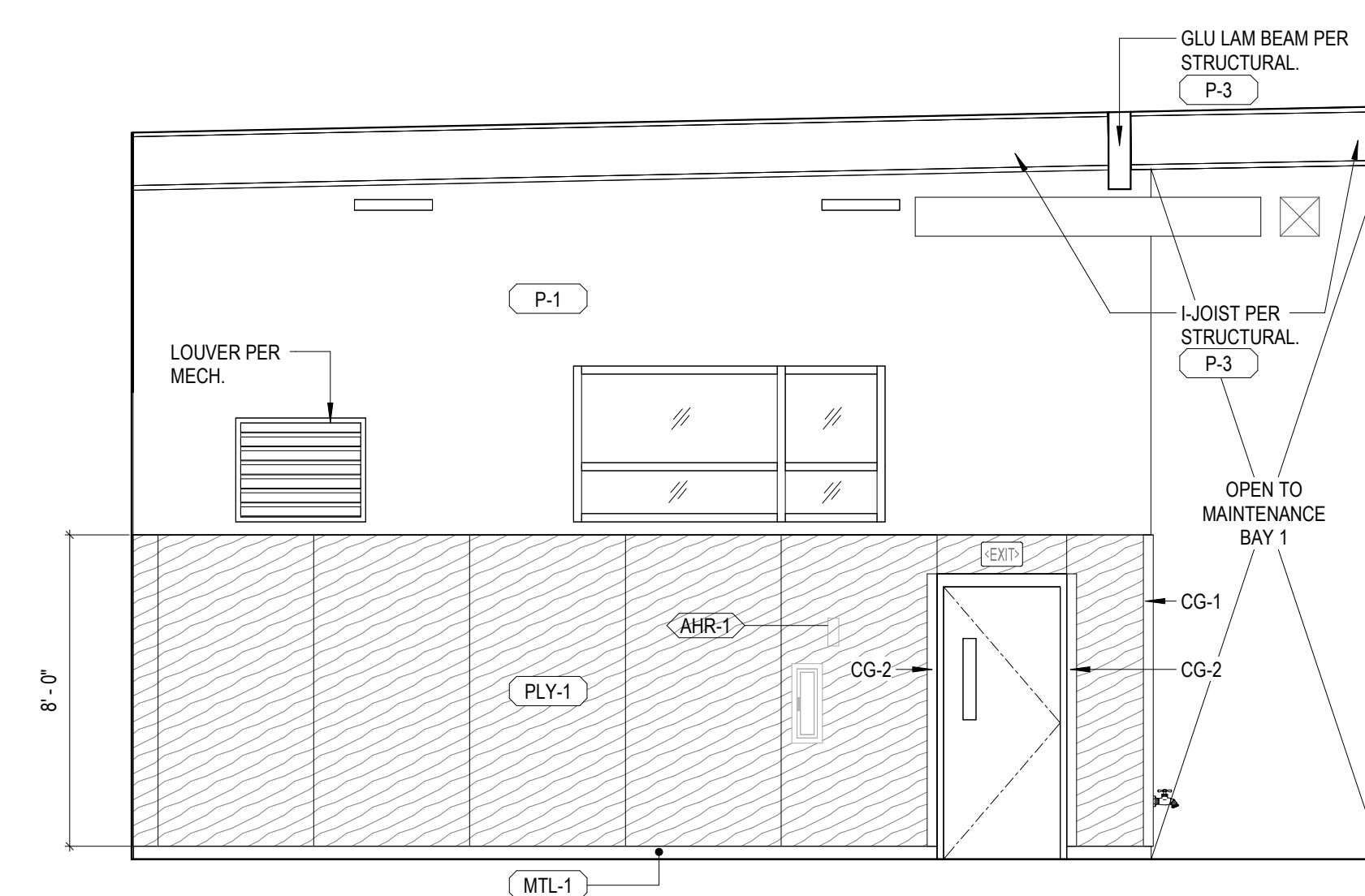
SHEET #

A34.02

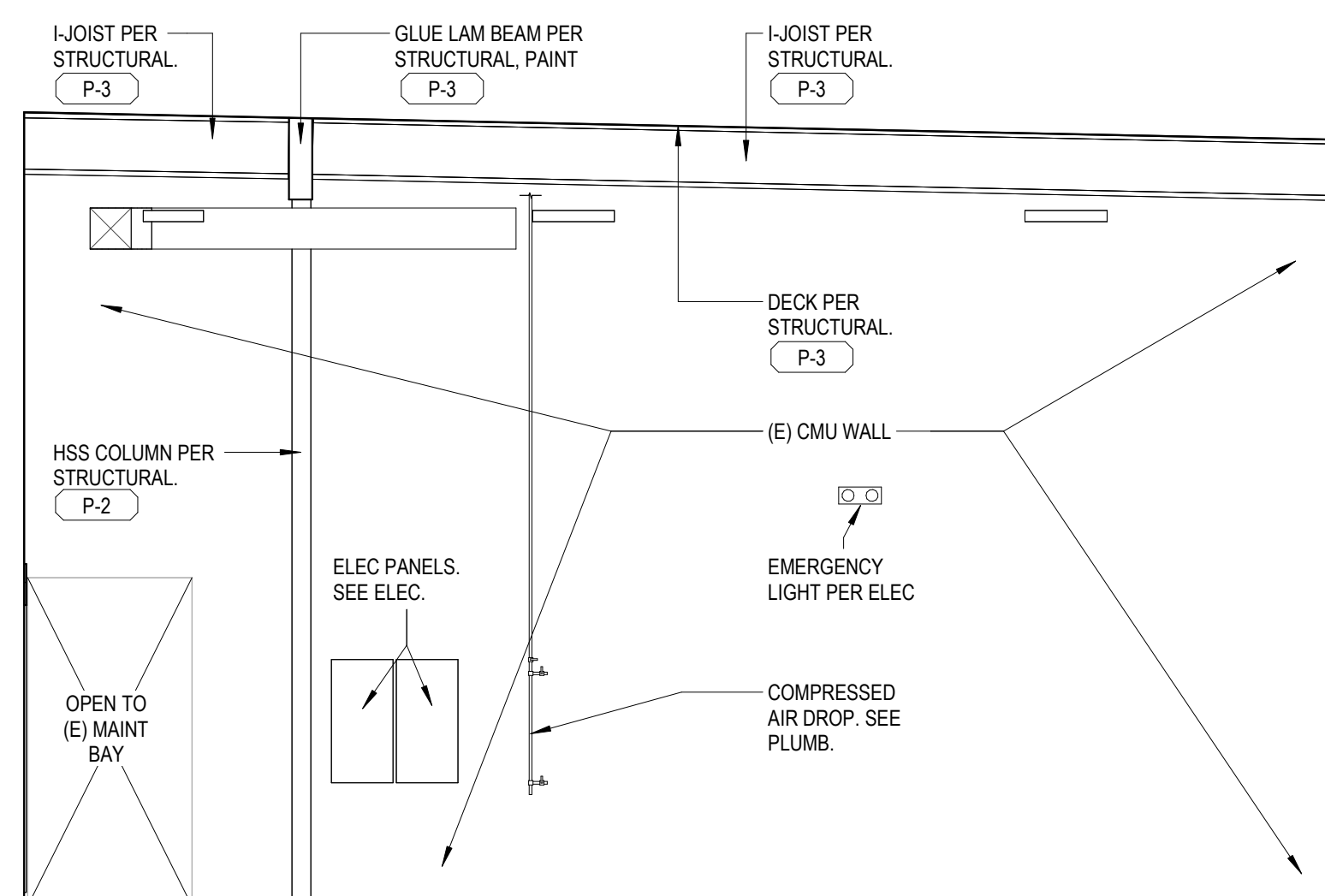
1. REFERENCE FINISH PLAN OR FINISH SCHEDULE FOR TYPICAL ROOM FINISHES NOT SHOWN.
2. REFERENCE TYPICAL MOUNTING HEIGHTS UNLESS MOUNTING HEIGHT IS NOTED OTHERWISE.
3. GRAPHIC REPRESENTATION OF MATERIALS AND/OR FIXTURES MAY NOT BE TO SCALE.
4. PROVIDE BLOCKINGS IN WALL FOR OWNER PROVIDED TOILET ACCESSORIES . COORDINATE FINAL LOCATION WITH OWNER..



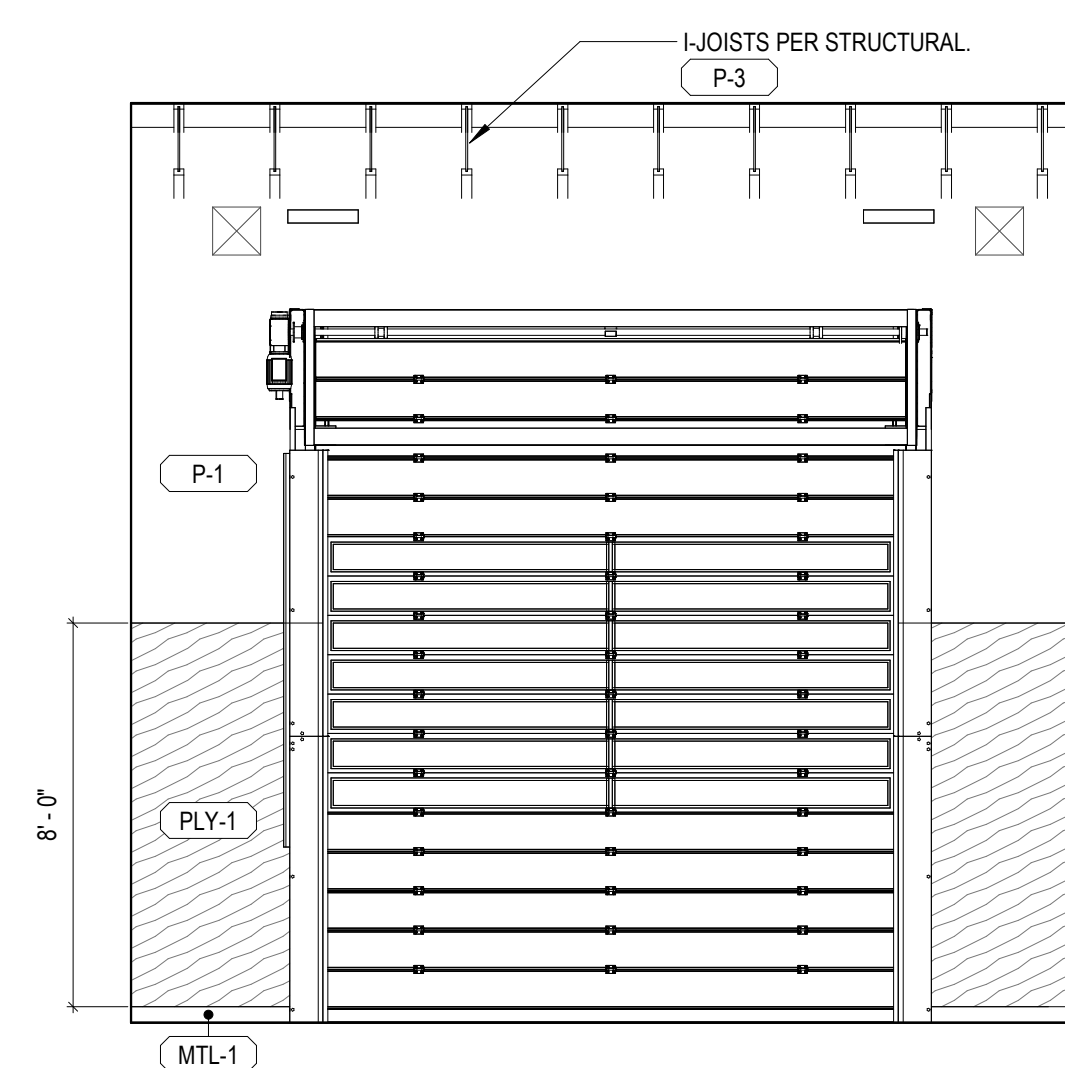
4 MAINTENANCE 2 - EAST
1/4" = 1'-0"



1 MAINTENANCE 2 - NORTH
1/4" = 1'-0"



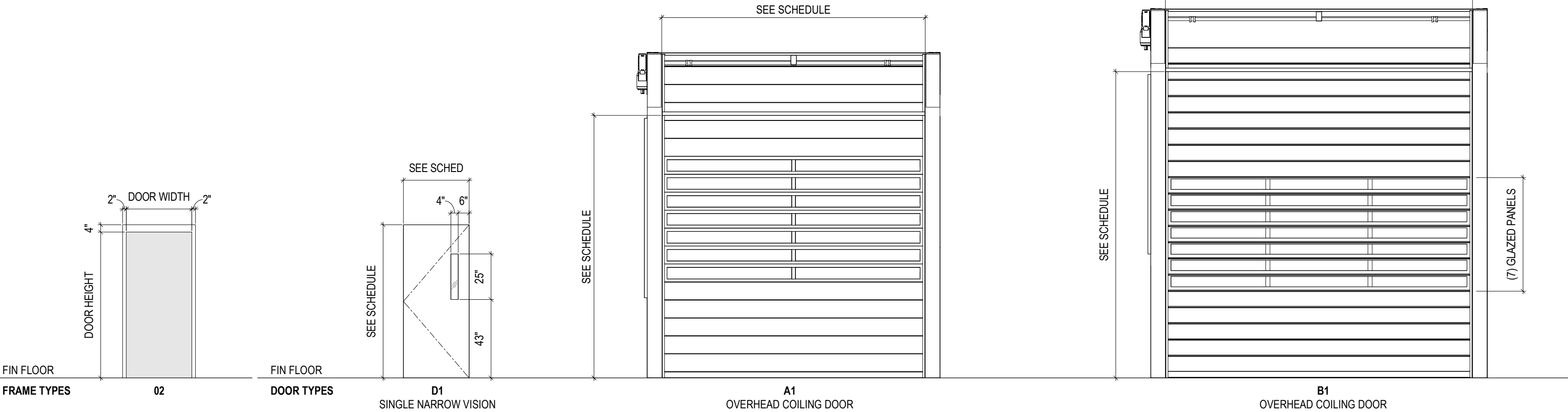
3 MAINTENANCE 2 - SOUTH
1/4" = 1'-0"



2 MAINTENANCE 2 - WEST
1/4" = 1'-0"

DOOR & FRAME TYPES

1/4" = 1'-0"



GLAZING SCHEDULE

GL-1: MONOLITHIC INTERIOR VISION GLAZING

- GLASS TYPE: TEMPERED
- THICKNESS: 1/4"
- TINT: CLEAR
- FIRE RATING: N/A

GL-2: INSULATING GLASS UNIT, DOUBLE GLAZED

- OUTBOARD GLASS TYPE: 1/4" TEMPERED, LOW-E COATING ON #2 SURFACE, CLEAR
- INBOARD GLASS TYPE: 1/4" TEMPERED, CLEAR, ARGON FILLED
- TOTAL THICKNESS: 1"

GL-3: (PER DOOR MFR)

- 1" DOUBLE PANE, CLEAR

GL-4: INSULATING GLASS UNIT, TRIPLE GLAZED

- OUTBOARD GLASS TYPE: 1/4" TEMPERED, LOW-E COATING ON #2 SURFACE, CLEAR
- MIDDLE GLASS TYPE: 1/4" TEMPERED, CLEAR
- INBOARD GLASS TYPE: 1/4" TEMPERED, CLEAR, ARGON FILLED
- TOTAL THICKNESS: 1-3/4"

GL-5: FIRE RESISTANCE RATED GLAZING

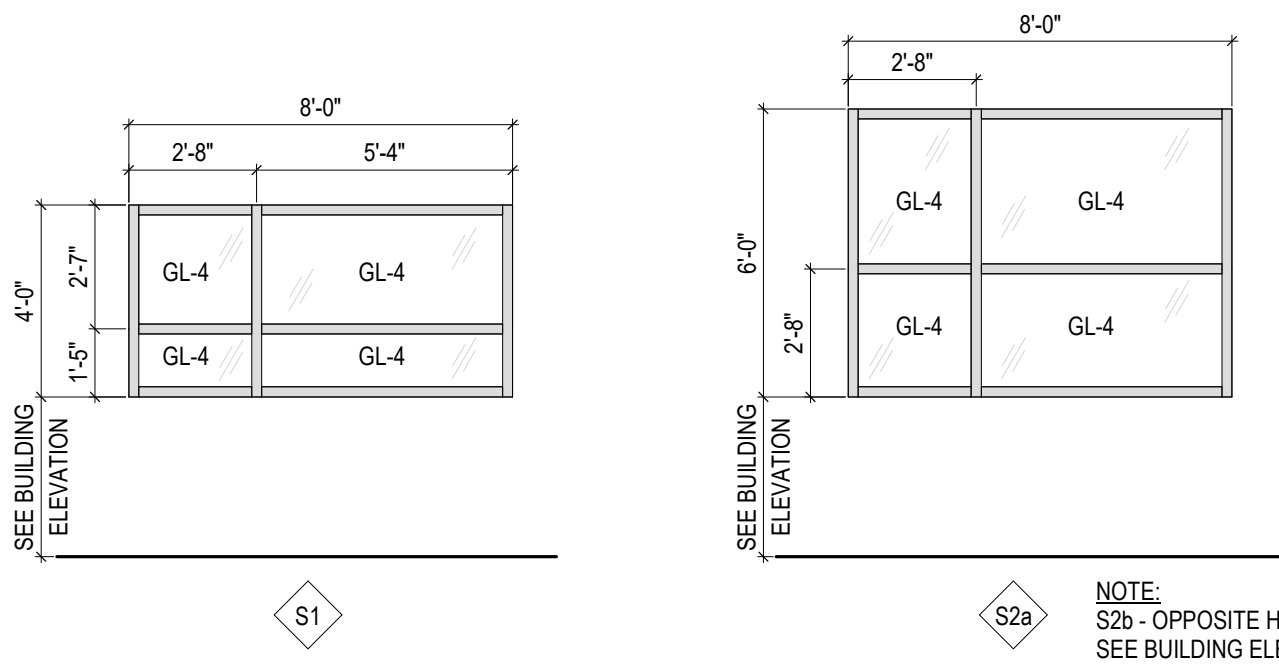
- FIRE RATING: 45 MINUTES
- MARKING: D-H
- TINT: CLEAR

DOOR SCHEDULE

| DOOR # | ROOM | | DOOR INFORMATION | | | | | | | FRAME INFORMATION | | | FIRE RATING | HARDWARE GROUP | COMMENTS |
|--------|--------|---------------------|------------------|----------|--------|---------|--------|--------|-----------|-------------------|----------|--------|--------------------------------|----------------|----------------------------------|
| | NUMBER | NAME | TYPE | MATERIAL | FINISH | GLAZING | HEIGHT | WIDTH | THICKNESS | FRAME TYPE | MATERIAL | FINISH | | | |
| 100A | 100 | OFFICE | D1 | HM | P-2 | G-2 | 7'-0" | 3'-0" | 1 3/4" | 02 | HM | P-2 | | HDW 01 | |
| 100B | 103 | MAINTENANCE BAY 1 | D1 | HM | P-1 | G-1 | 7'-0" | 3'-0" | 1 3/4" | 02 | HM | P-1 | | HDW 02 | |
| 101 | 101 | (E) PARTS ROOM | D1 | HM | P-1 | G-1 | 7'-0" | 3'-0" | 1 3/4" | 02 | HM | P-1 | | HDW 04 | |
| 102A | 102 | PARTS ROOM | D1 | HM | P-1 | G-1 | 7'-0" | 3'-0" | 1 3/4" | 02 | HM | P-1 | | HDW 03 | |
| 102B | 102 | PARTS ROOM | D1 | HM | P-1 | G-1 | 7'-0" | 3'-0" | 1 3/4" | 02 | HM | P-1 | | HDW 03 | |
| 103A | 103 | MAINTENANCE BAY 1 | D1 | HM | P-2 | G-2 | 7'-0" | 3'-0" | 1 3/4" | 02 | HM | P-2 | | HDW 01 | |
| 103B | 103 | MAINTENANCE BAY 1 | B1 | | P-3 | G-3 | 14'-0" | 14'-0" | 1 5/8" | | | - | Non-Rated, Non-Conforming Exit | - | OVERHEAD COILING DOOR, LOW SPEED |
| 103C | 103 | MAINTENANCE BAY 1 | B1 | | P-3 | G-3 | 14'-0" | 14'-0" | 1 5/8" | | | - | Non-Rated, Non-Conforming Exit | - | OVERHEAD COILING DOOR, LOW SPEED |
| 104A | 104 | MAINTENANCE 2 | D1 | HM | P-2 | G-2 | 7'-0" | 3'-0" | 1 3/4" | 02 | HM | P-2 | | HDW 01 | |
| 104B | 104 | MAINTENANCE 2 | A1 | | P-3 | G-3 | 12'-0" | 12'-0" | 1 5/8" | | | - | Non-Rated, Non-Conforming Exit | - | OVERHEAD COILING DOOR, LOW SPEED |
| 105 | 105 | (E) MAINTENANCE BAY | D1 | HM | P-2 | G-5 | 7'-0" | 4'-0" | 1 3/4" | 02 | HM | P-2 | 45 MIN | HDW 05 | |

STOREFRONT SCHEDULE

| STOREFRONT # | QTY | WIDTH | HEIGHT | COMMENTS |
|--------------|-----|-------|--------|-------------------|
| S1 | 2 | 8'-0" | 4'-0" | FIBERGLASS WINDOW |
| S2a | 2 | 8'-0" | 6'-0" | FIBERGLASS WINDOW |
| S2b | 2 | 8'-0" | 6'-0" | FIBERGLASS WINDOW |



INTERIOR FINISH LEGEND

| TAG | SPEC # | MATERIAL | NOTES |
|-------|----------|---------------------------------|--|
| ACT-1 | 09 5100 | ACOUSTICAL CEILING TILE | - |
| CG-1 | 10 26 00 | CORNER GUARDS | LOCATED @ MAINTENANCE BAY OUTSIDE CORNERS OF PLY-1, 96"H |
| CG-2 | 10 26 00 | CORNER GUARDS | LOCATED @ MAINTENANCE BAY OUTSIDE CORNERS OF PLY-1, 84"H |
| CG-3 | 10 26 00 | CORNER GUARDS | LOCATED @ MAINTENANCE BAY TOP OF FURRED WALL |
| MTL-1 | 05 5000 | METAL WALL BASE | MAINTENANCE BAYS |
| P-1 | 09 91 00 | INTERIOR PAINT | FIELD PAINT |
| P-2 | 09 91 00 | INTERIOR PAINT | DOOR, DOOR FRAME, CONDUITS, COLUMN PAINT |
| P-3 | 09 91 00 | INTERIOR PAINT | CEILING PAINT |
| P-4 | 09 91 00 | INTERIOR PAINT | - |
| PLY-1 | 06 20 00 | PLYWOOD WALL PANEL | LOCATED @ MAINTENANCE BAYS. 8'-0" WAINSCOT. SEE INTERIOR ELEVATIONS. |
| RES-1 | 09 65 00 | RUBBER BASE | - |
| SC-1 | 03 35 00 | HARD TROWEL AND SEALED CONCRETE | - |
| WD-1 | 06 46 00 | WOOD TRIM | 1X HARDWOOD TRIM. |

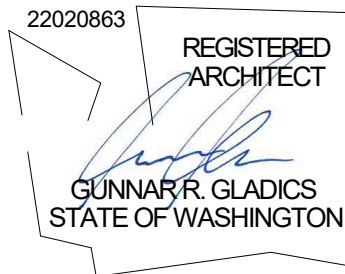
ROOM FINISH SCHEDULE

| ROOM INFORMATION | | TYP FINISH INFORMATION, UNO | | | | NOTES |
|------------------|---------------------|-----------------------------|-----------------|-------|----------|--|
| NUMBER | NAME | WALL | BASE | FLOOR | CEILING | |
| 103 | MAINTENANCE BAY 1 | PLY-1 / P-1 | SEALANT / MTL-1 | SC-1 | OTS, P-3 | SEE ELEVATIONS FOR WALL FINISHES |
| 100 | OFFICE | P-1 | RES-1 | SC-1 | ACT-1 | |
| 101 | (E) PARTS ROOM | P-1 | - | SC-1 | (E) | SEE ELEVATIONS FOR WALL FINISHES |
| 105 | (E) MAINTENANCE BAY | (E) | - | (E) | (E) | |
| 102 | PARTS ROOM | (E) | - | (E) | GWB | SEE ELEVATIONS FOR WALL FINISHES |
| 104 | MAINTENANCE 2 | PLY-1 / P-1 | SEALANT / MTL-1 | SC-1 | OTS, P-3 | SEE ELEVATIONS FOR WALL FINISHES. DO NOT PAINT (E) CMU |

RICEfergusMILLER

ARCHITECTURE INTERIORS PLANNING VIZLAB

275 FIFTH STREET, SUITE 100
BREMERTON, WA 98337
360-377-8773
RFMARCH.COM



SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

PROJECT # 2022073

BID SET

ISSUE DATE 3/22/2024

REVISION SCHEDULE

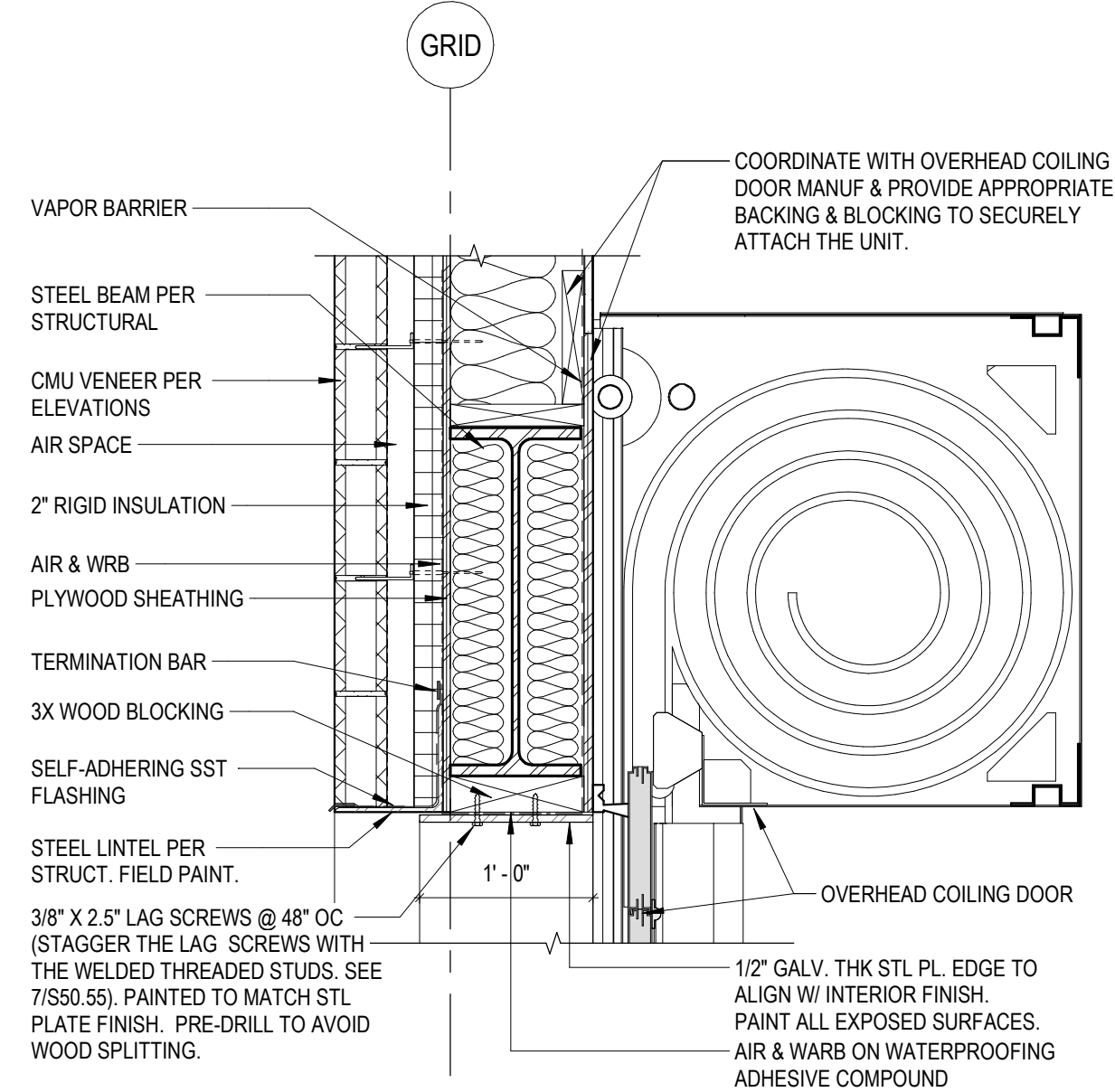
2 PERMIT REVISION 2 1/18/24

AHJ APPROVAL STAMP

DOOR, STOREFRONT,
FINISH LEGEND &
ROOM SCHEDULES

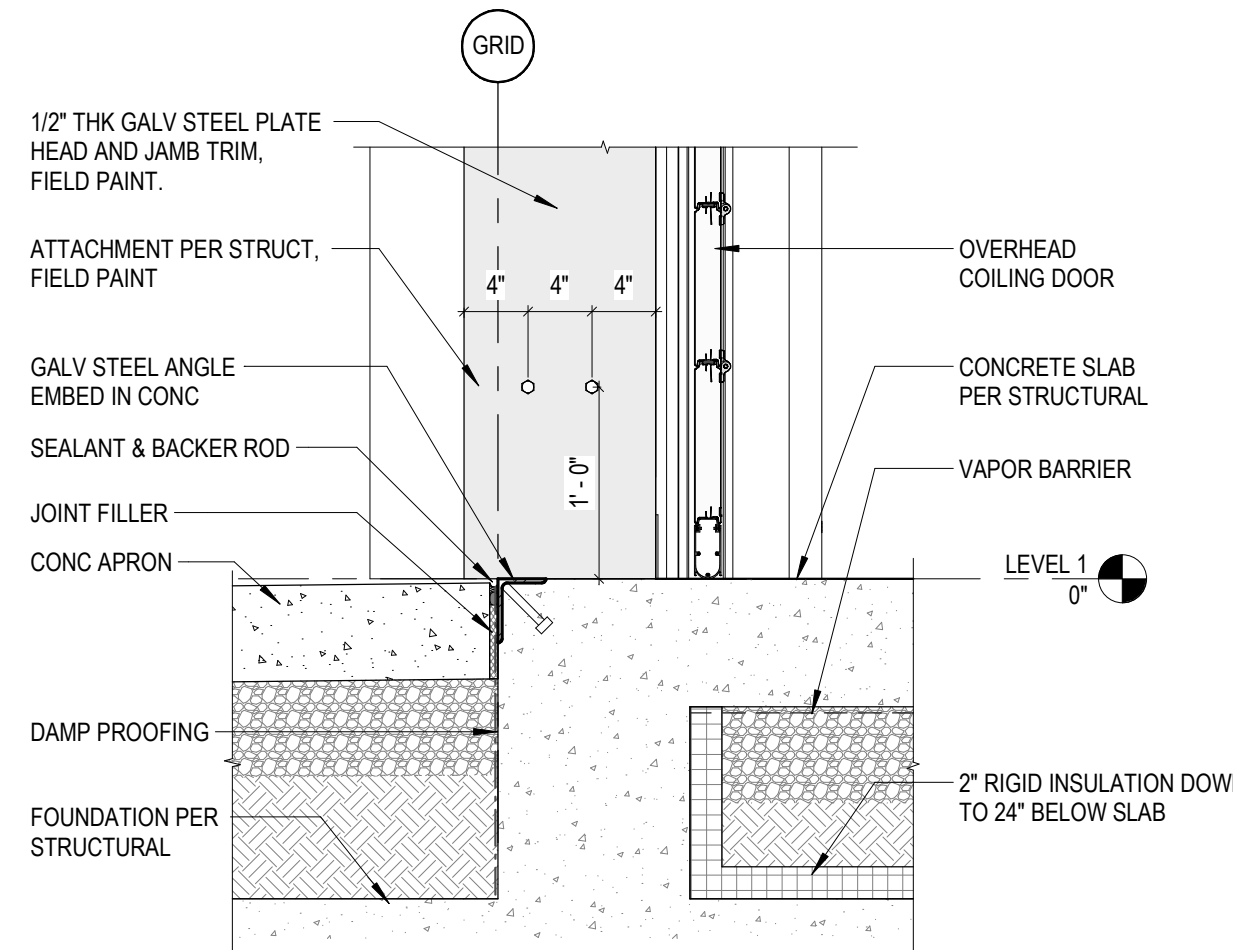
SHEET #

A60.01



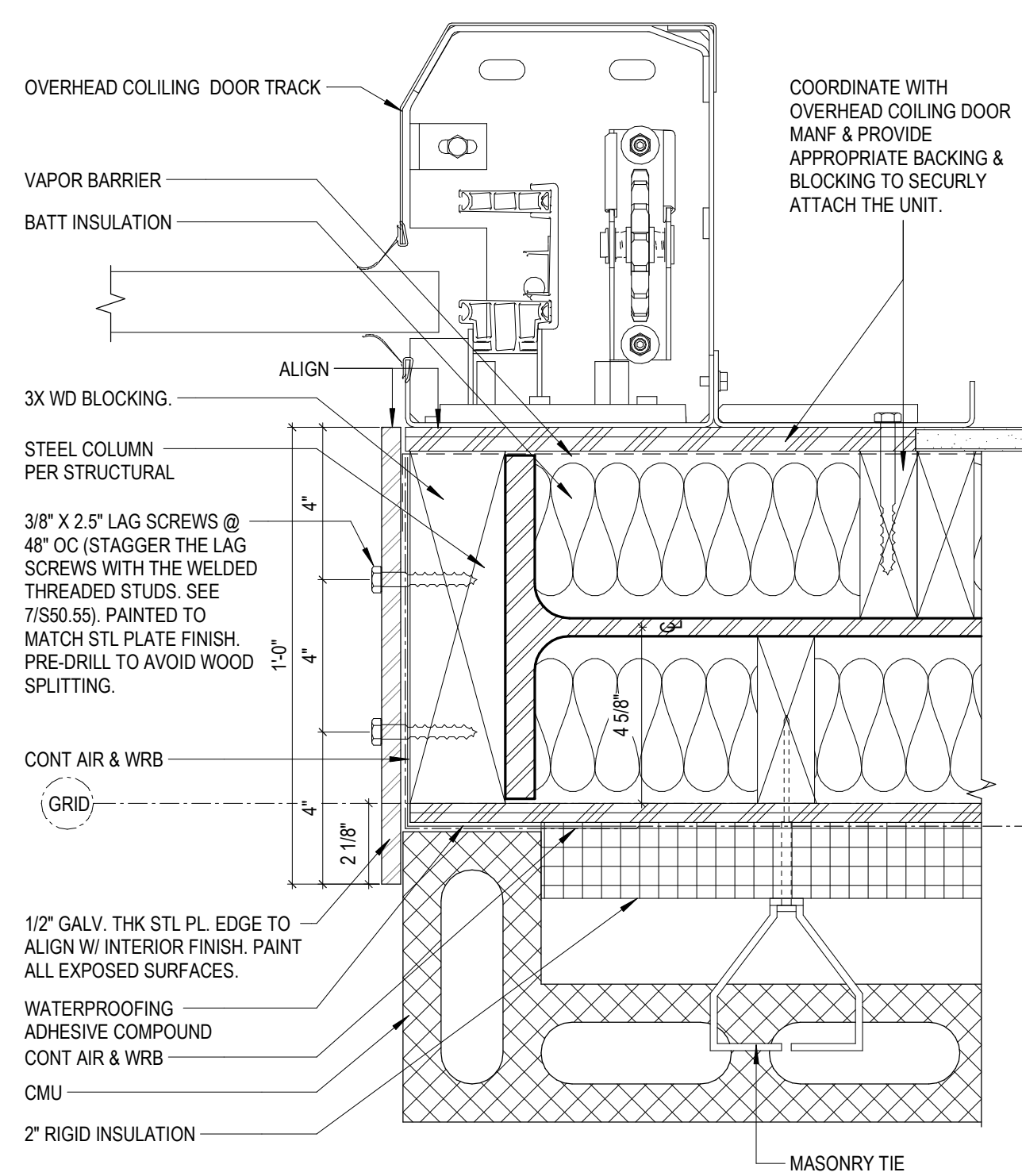
16 OVERHEAD COILING DOOR HEAD

1" = 1'-0" REFERENCE 13 / A33.01



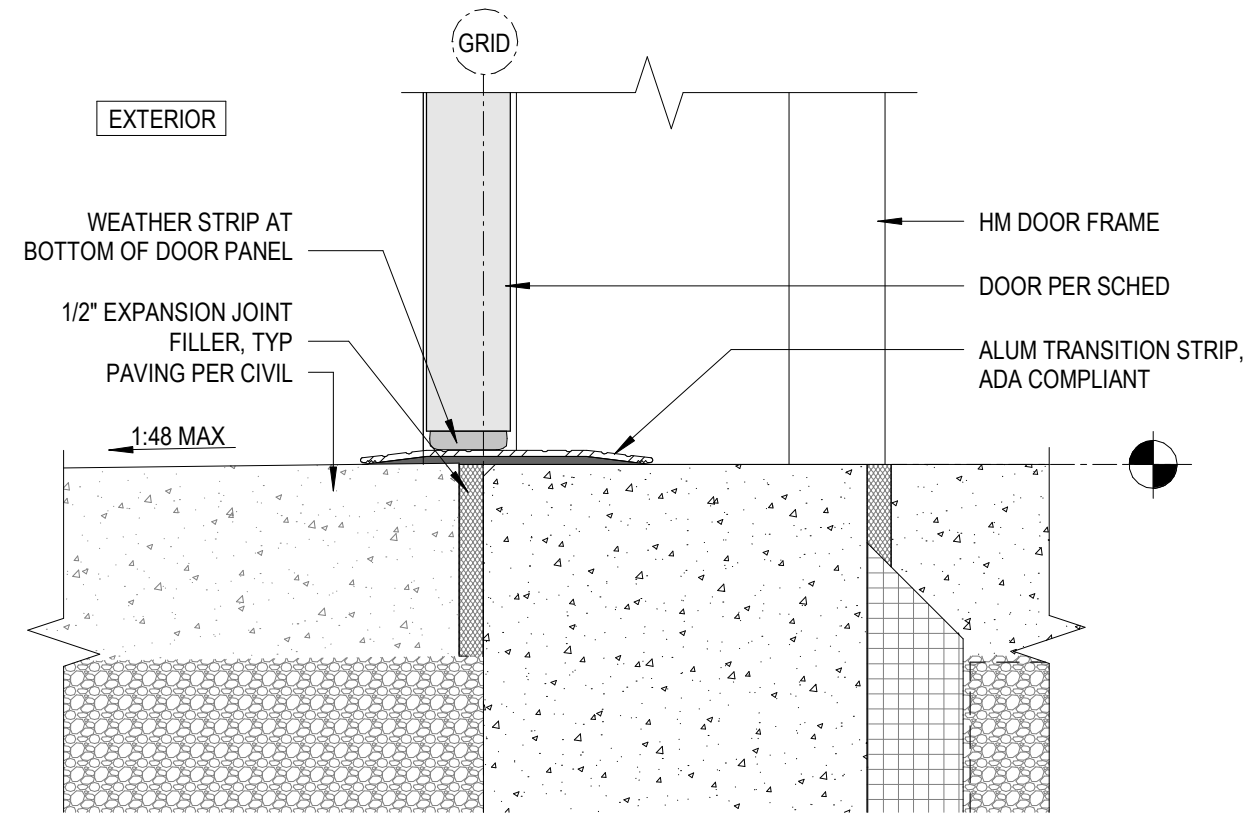
15 OVERHEAD COILING DOOR SILL

1" = 1'-0" REFERENCE 13 / A33.01



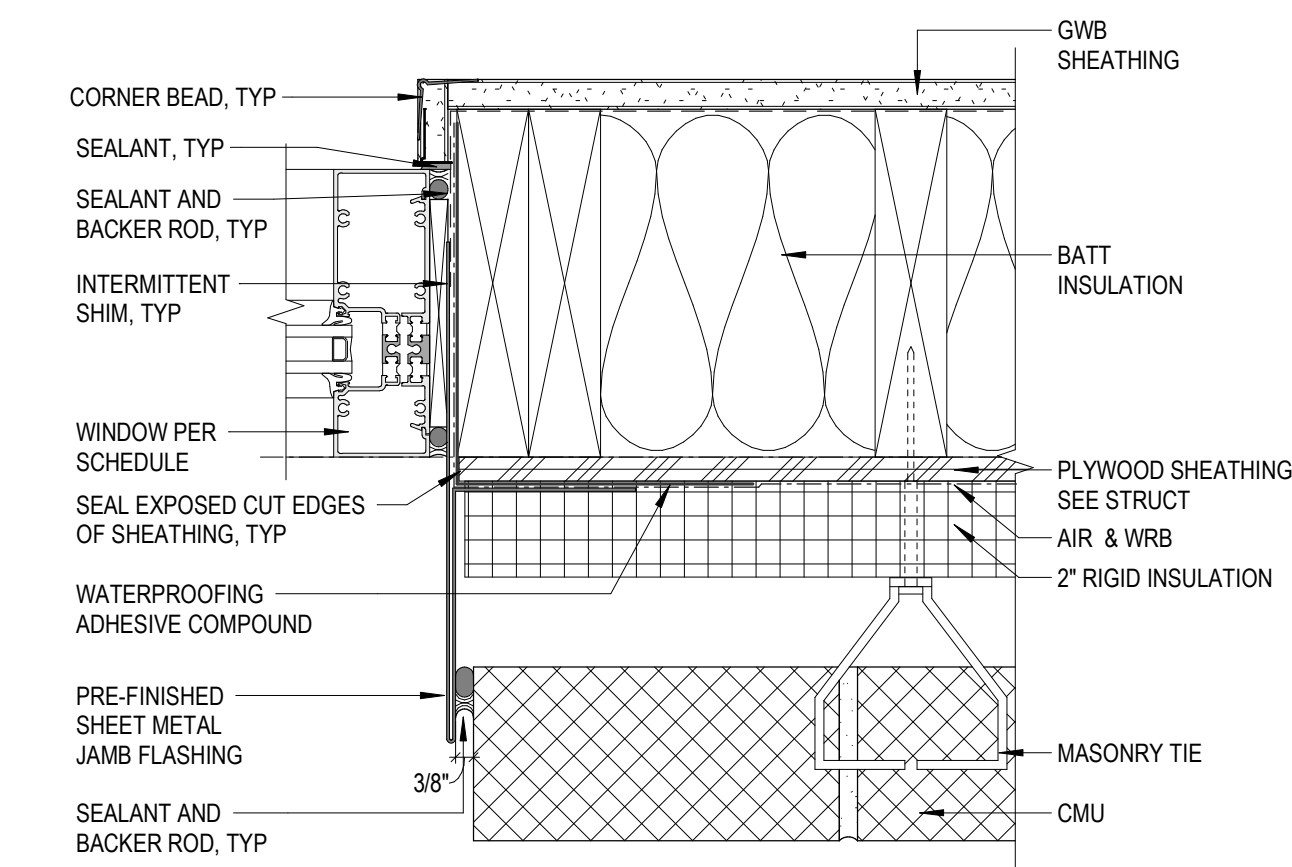
13 OVERHEAD COILING DOOR JAMB

3" = 1'-0"



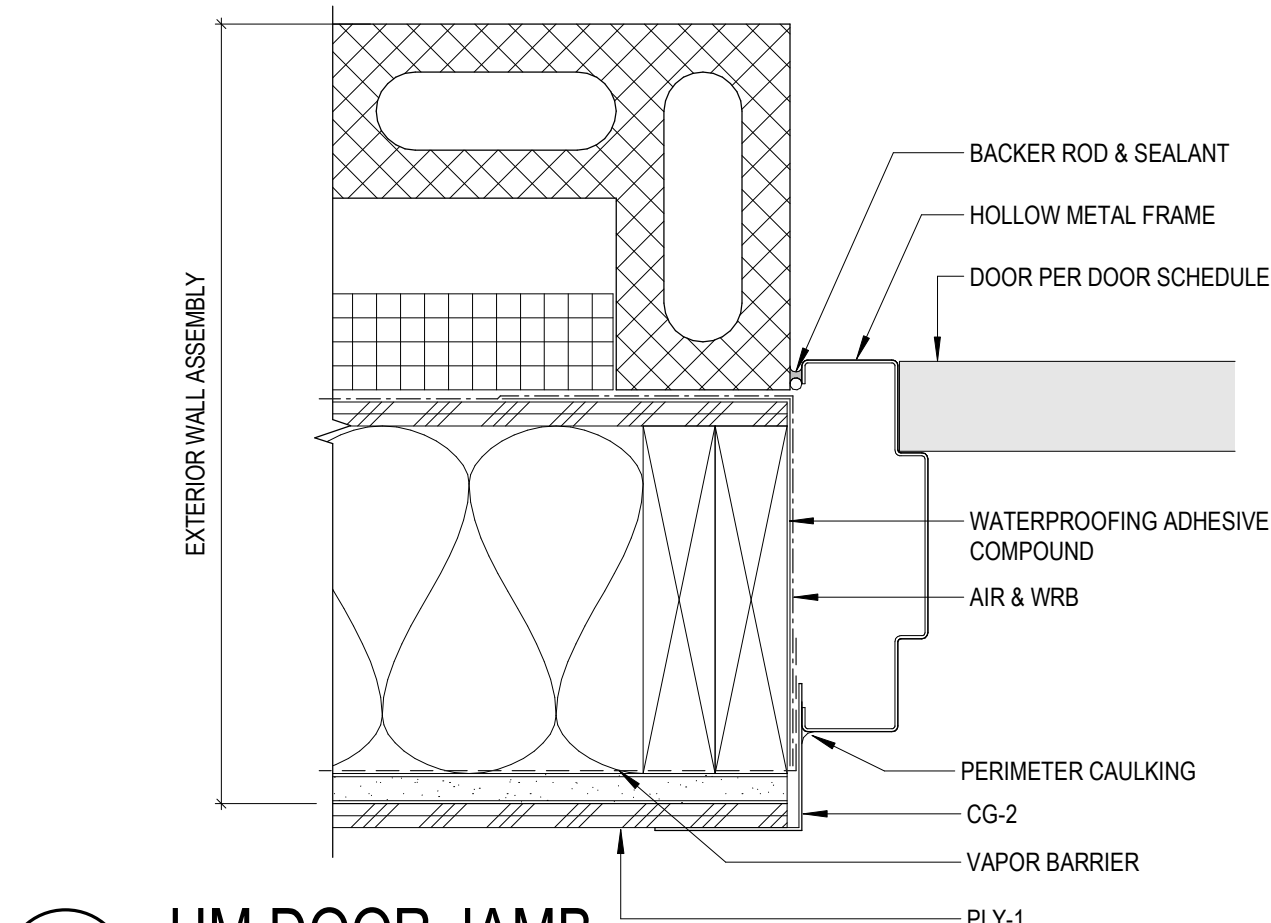
11 EXT HM DOOR SILL

3" = 1'-0"



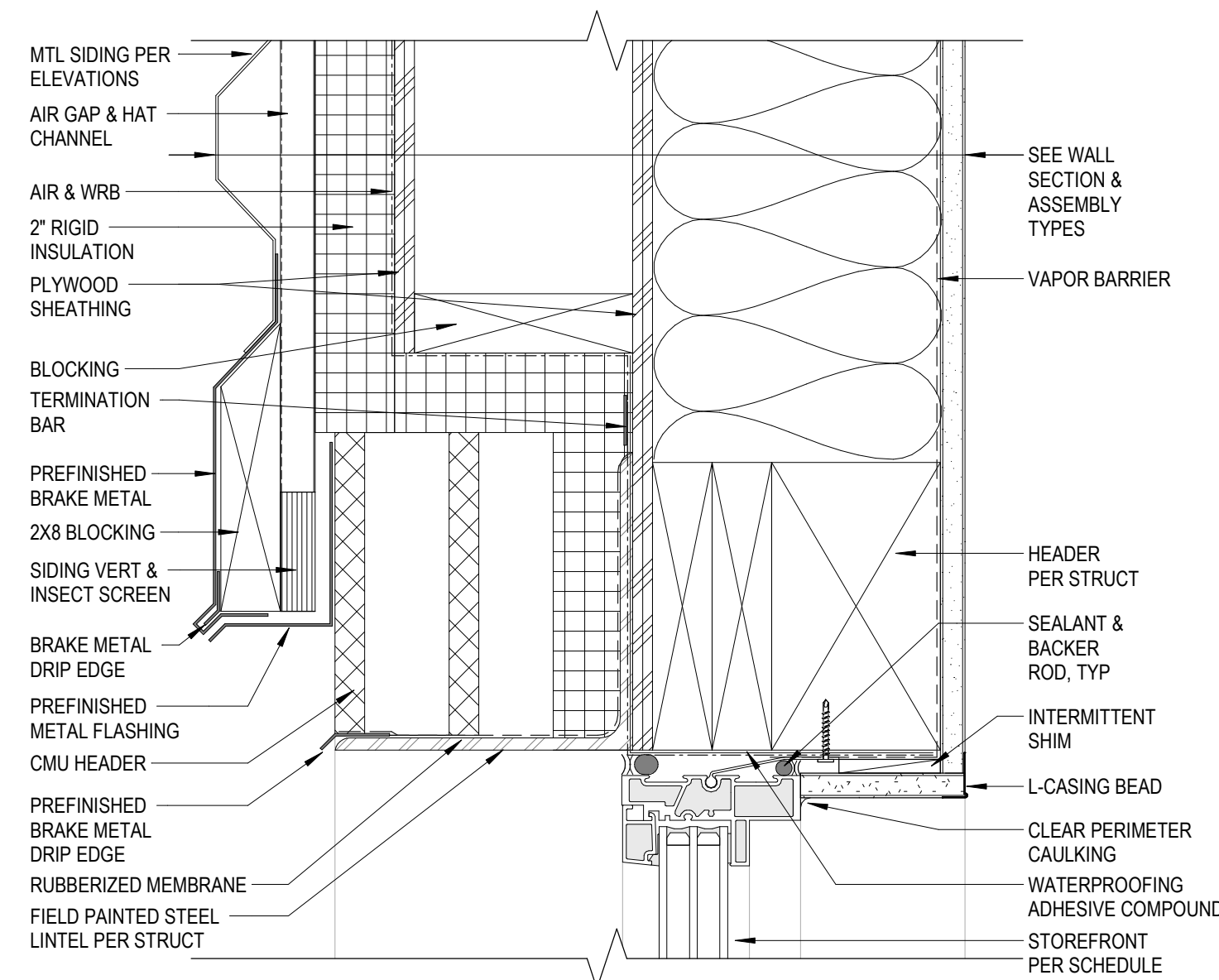
10 STOREFRONT JAMB, TYP

3" = 1'-0"



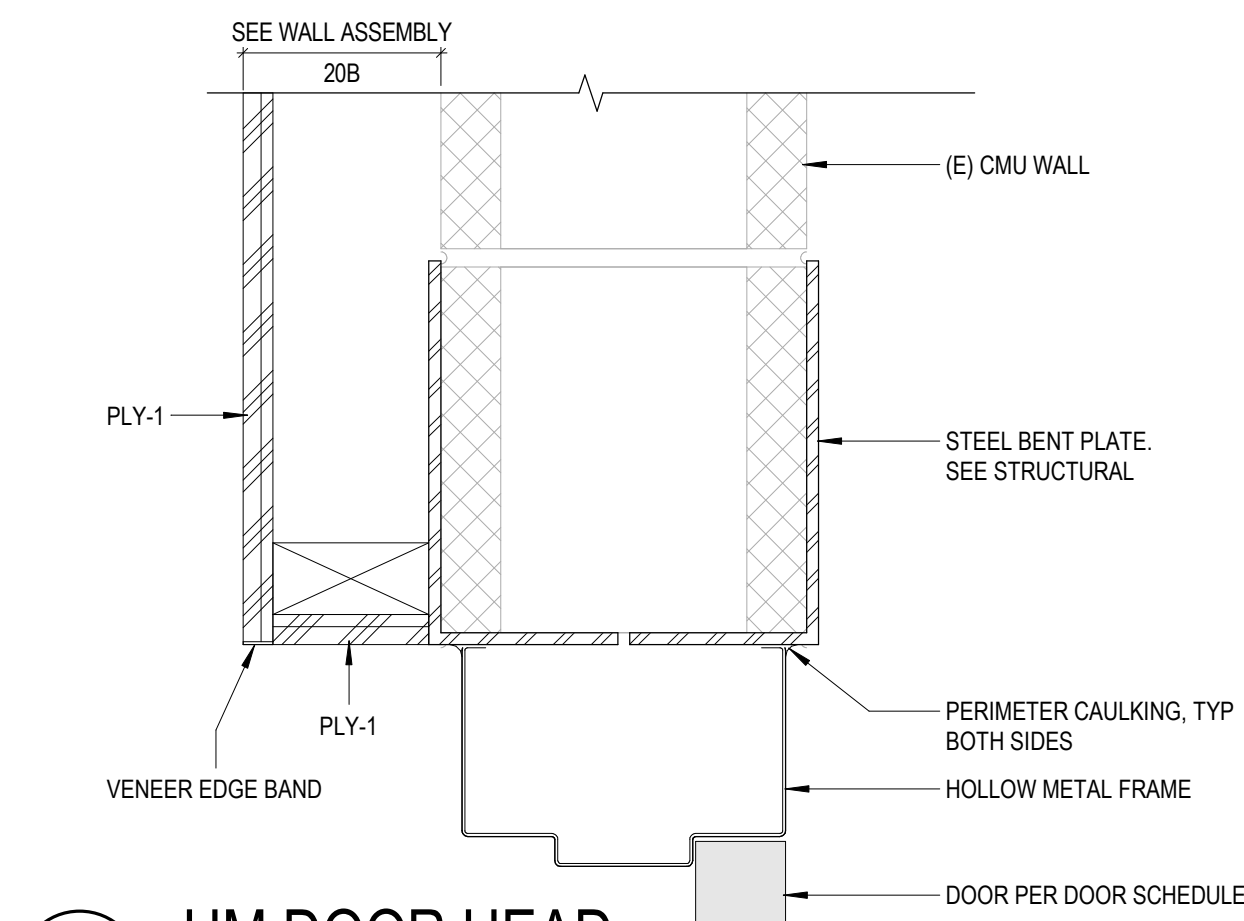
9 HM DOOR JAMB

3" = 1'-0"



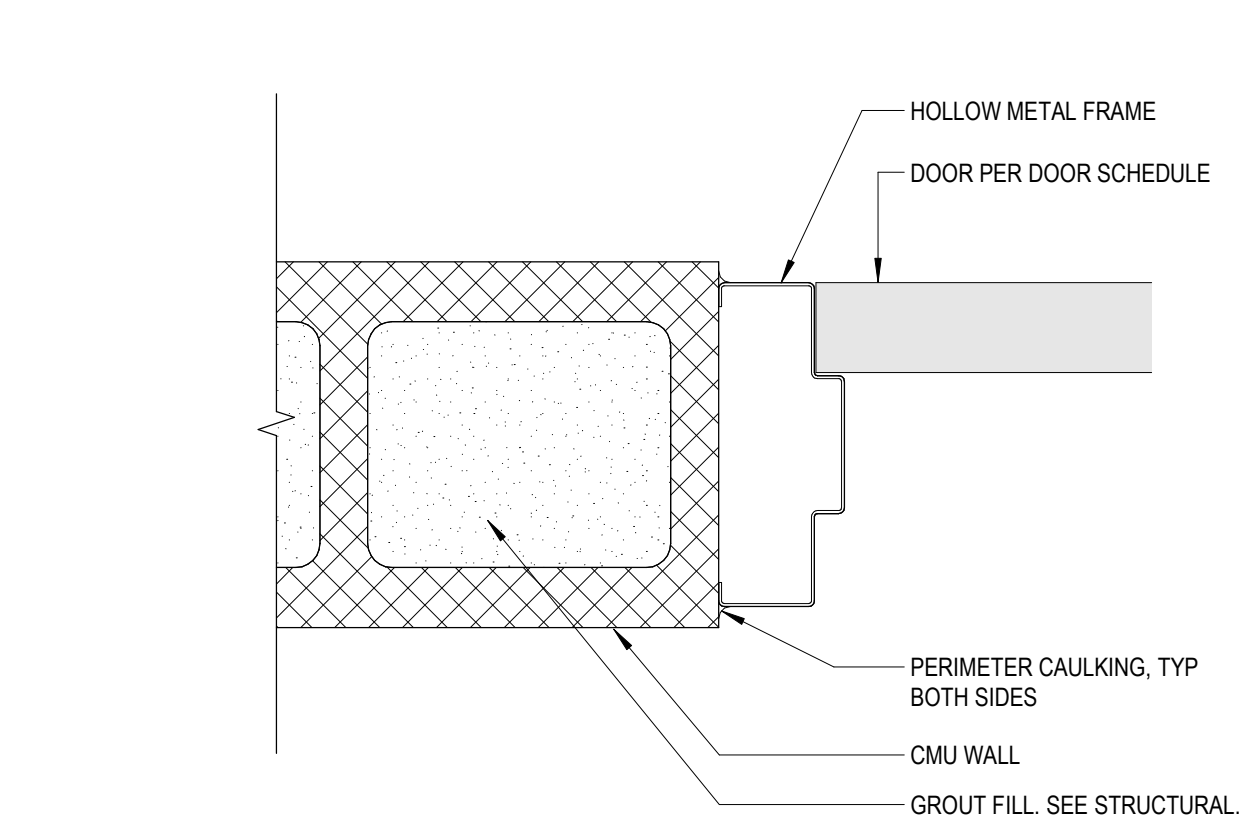
7 STOREFRONT HEADER @ METAL SIDING

3" = 1'-0" REFERENCE 9 / A33.02



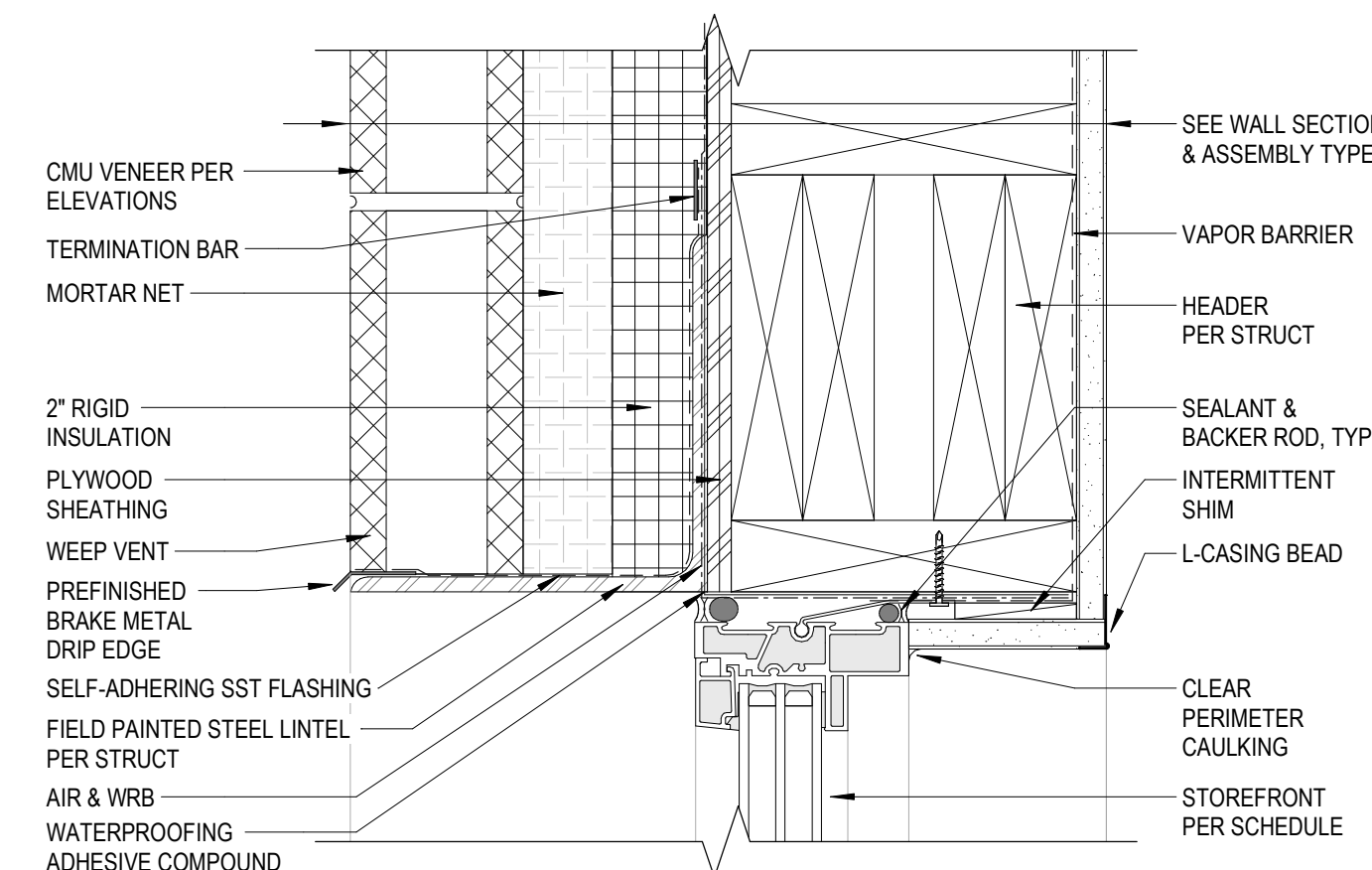
6 HM DOOR HEAD

3" = 1'-0"



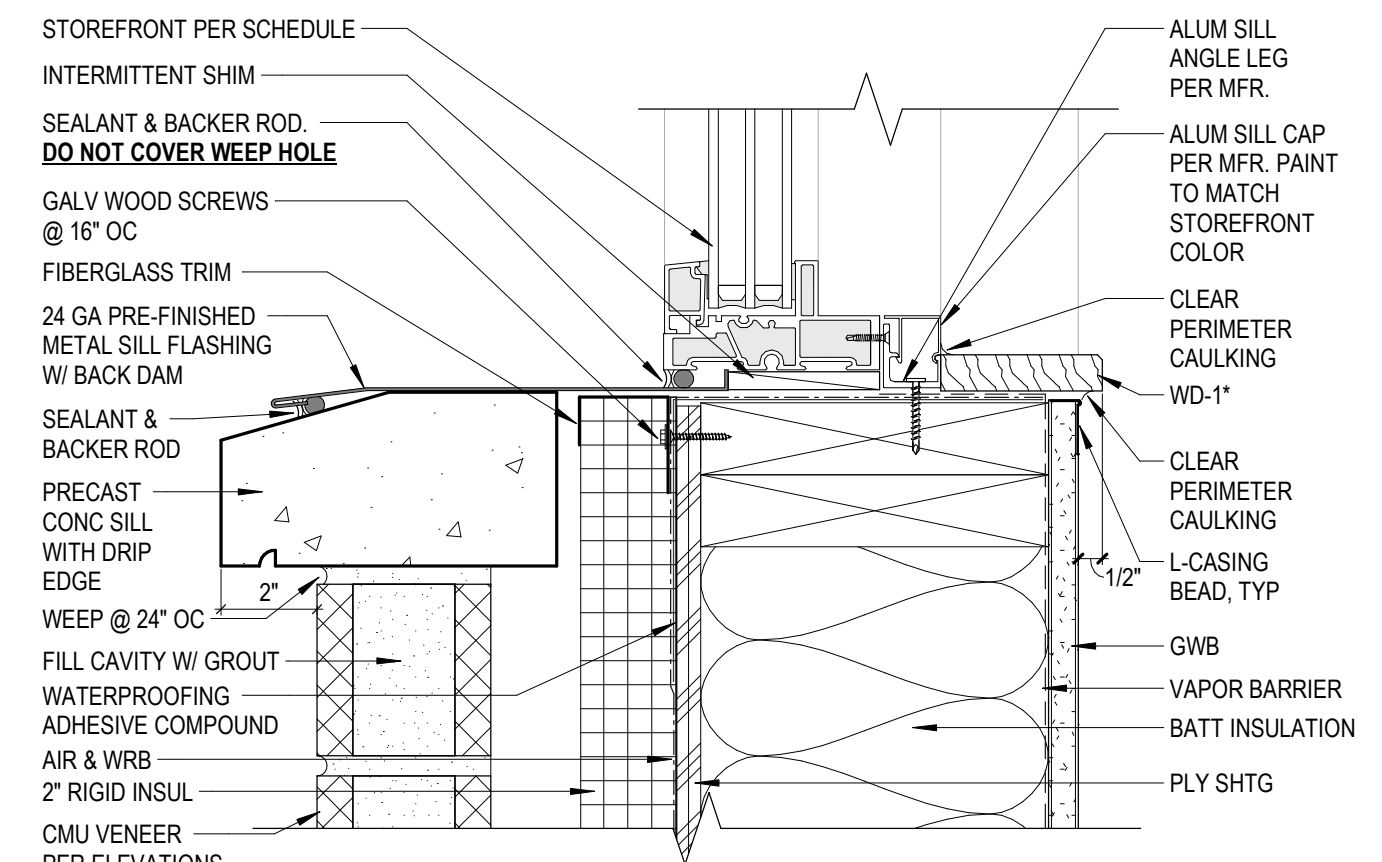
5 HM DOOR JAMB

3" = 1'-0"



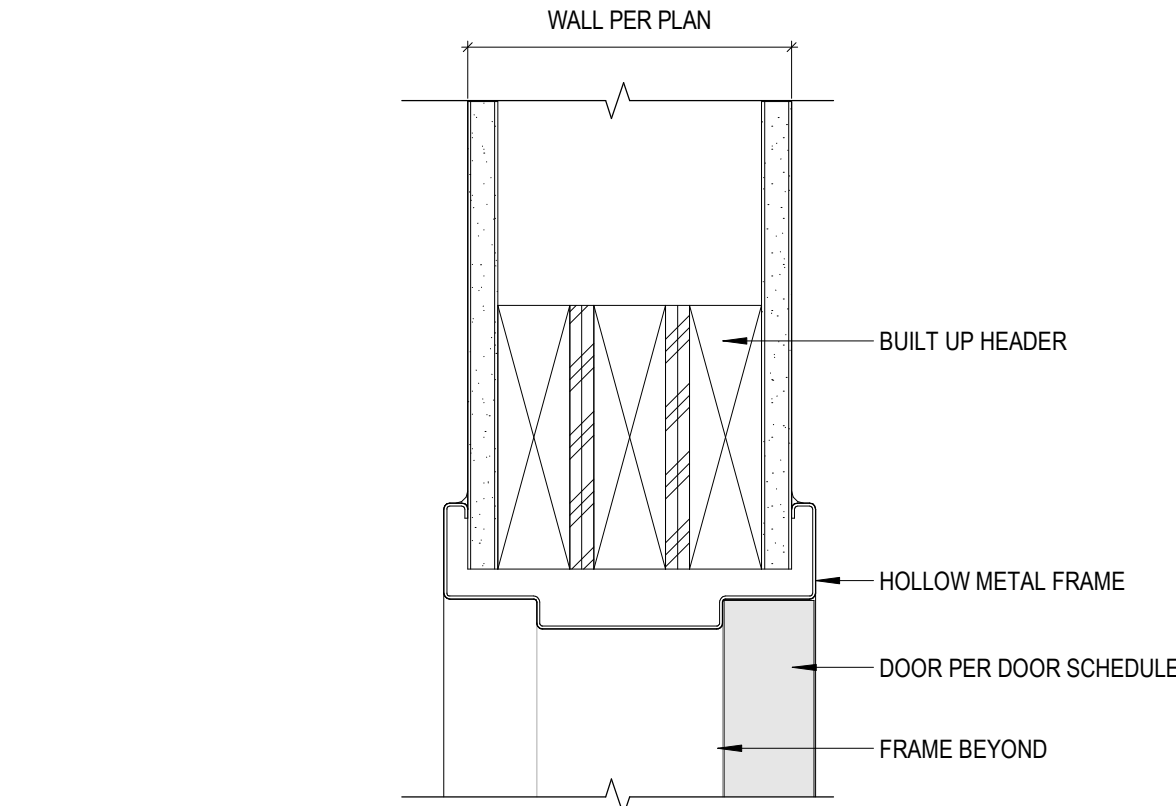
4 STOREFRONT HEADER @ CMU

3" = 1'-0" REFERENCE 9 / A33.01



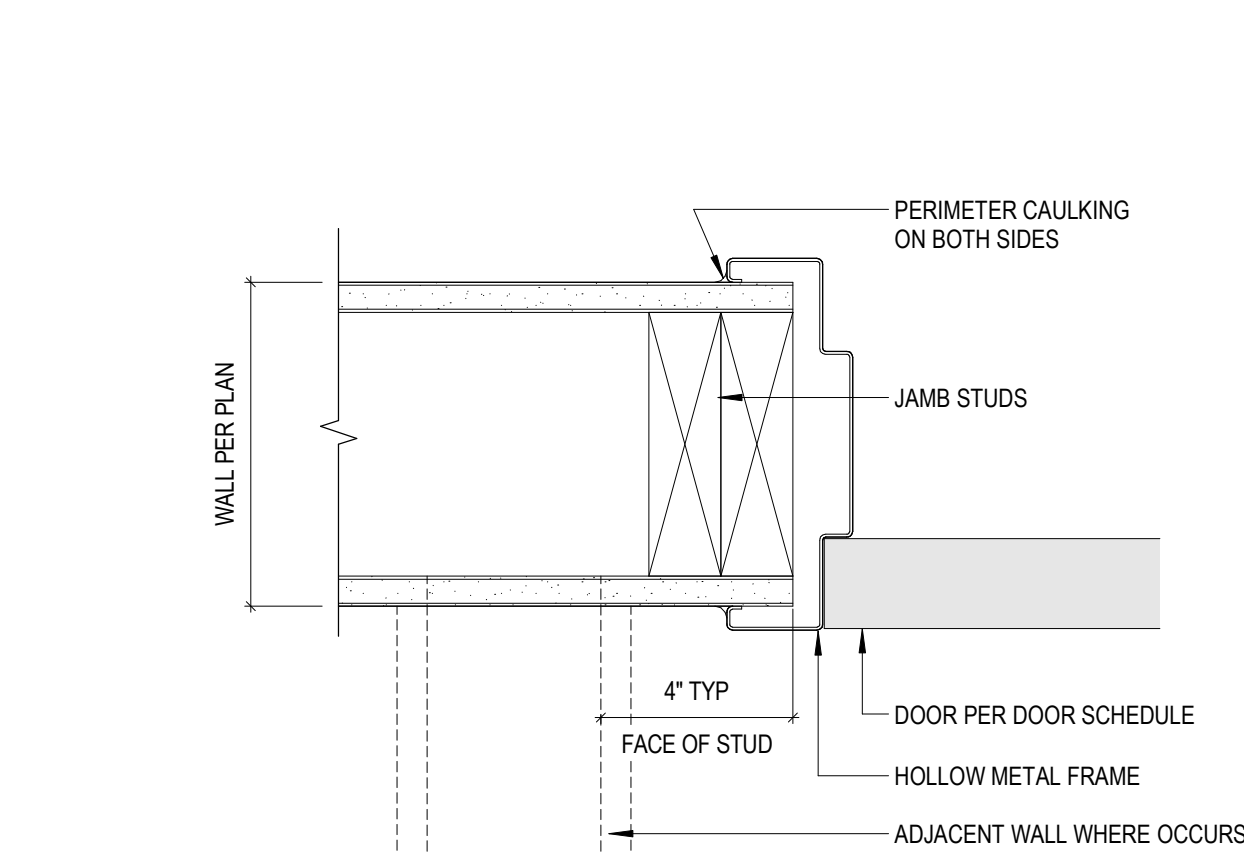
3 STOREFRONT SILL, TYP

3" = 1'-0" REFERENCE 9 / A33.01



2 HM DOOR HEAD AT WD STUD

3" = 1'-0"



1 HM DOOR JAMB AT WD STUD

3" = 1'-0"

SRFR 31 - SHOP ADDITION

163 VILLAGE COURT
MONROE, WA 98272

[illegible]

EXTERIOR DETAILS

SHEET #

A60.04





SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

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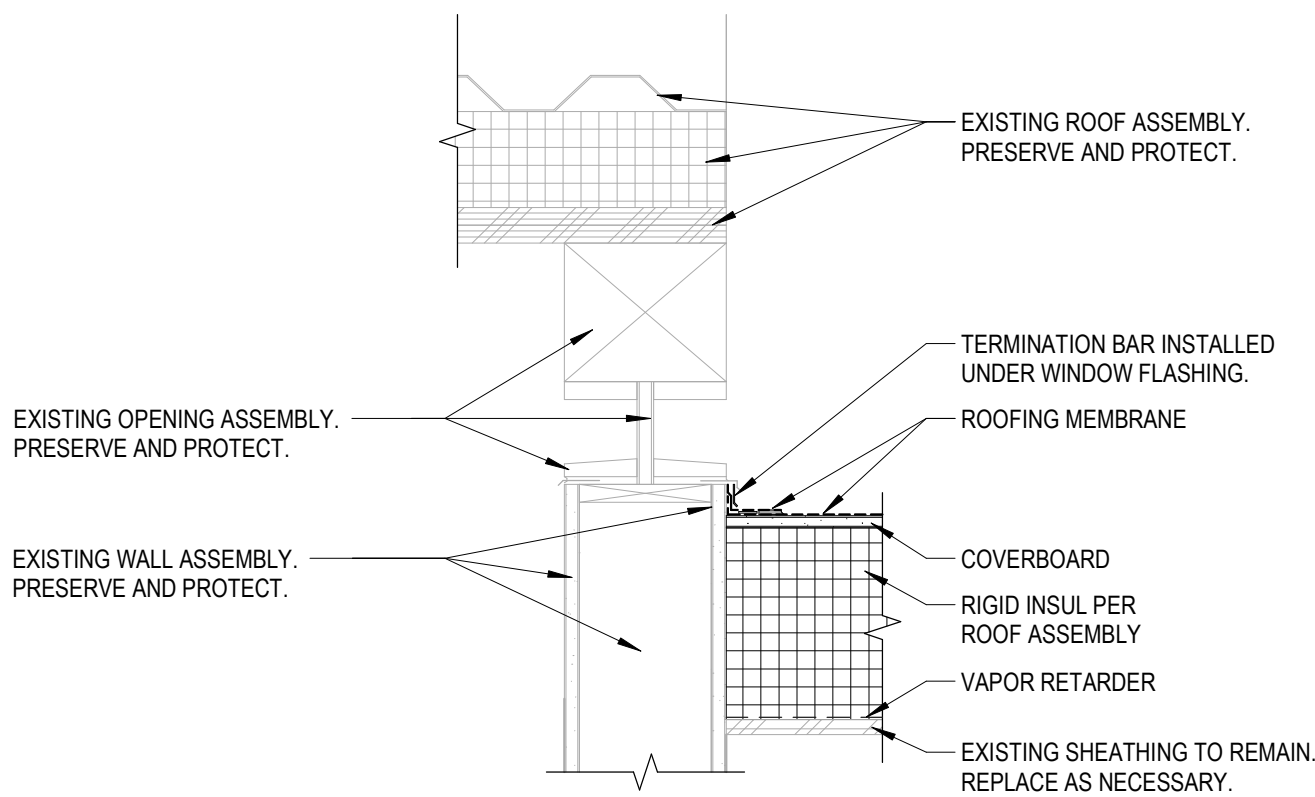
| NO. | DESCRIPTION | DATE |
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AHJ APPROVAL STAMP

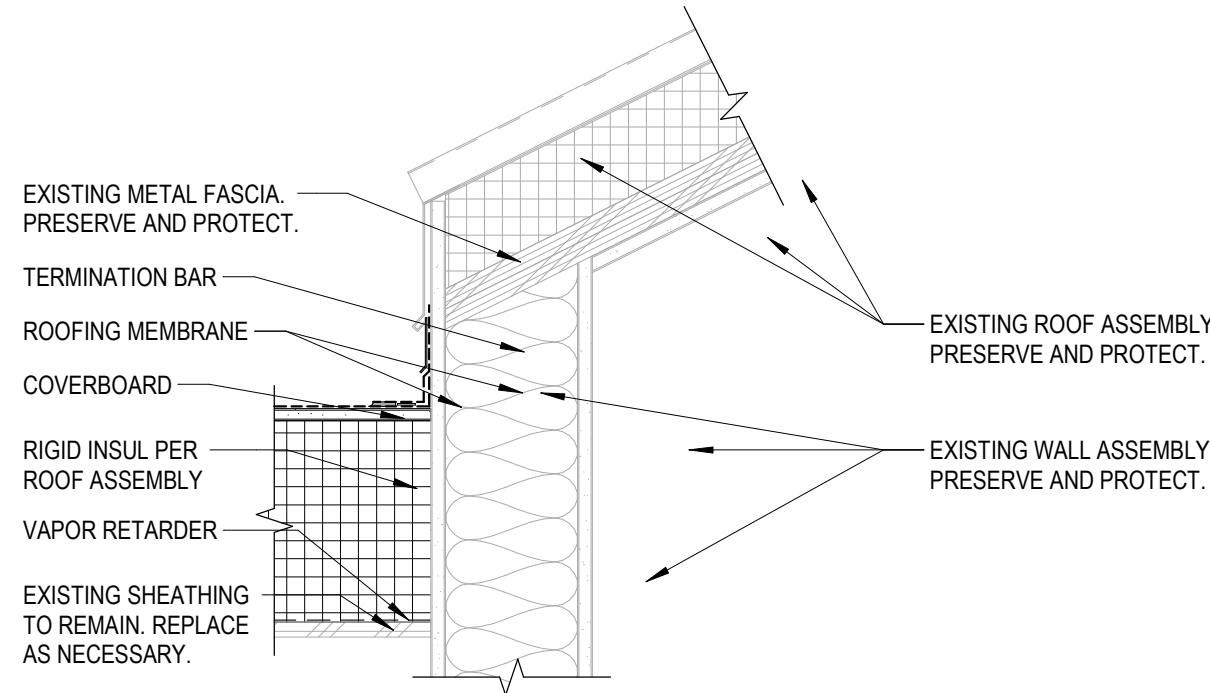
EXTERIOR DETAILS

SHEET #

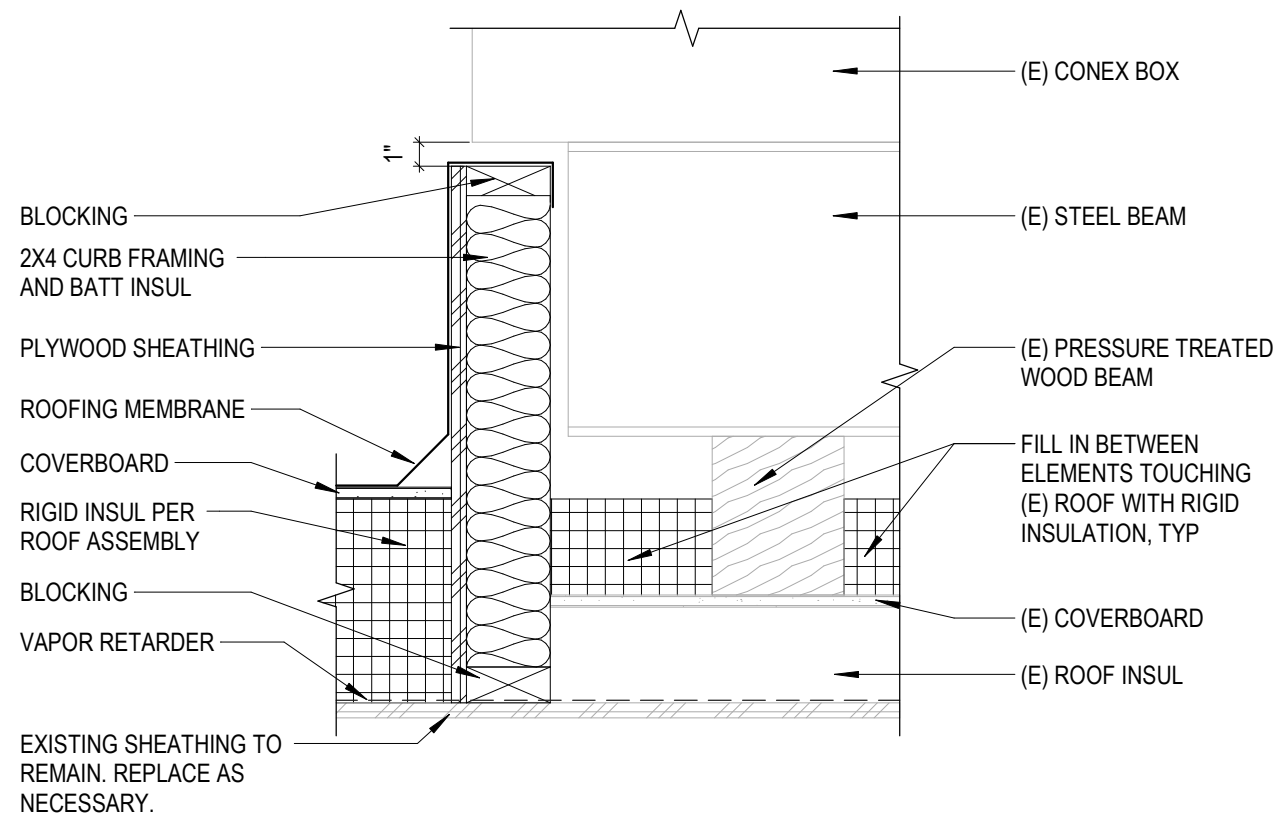
A60.05



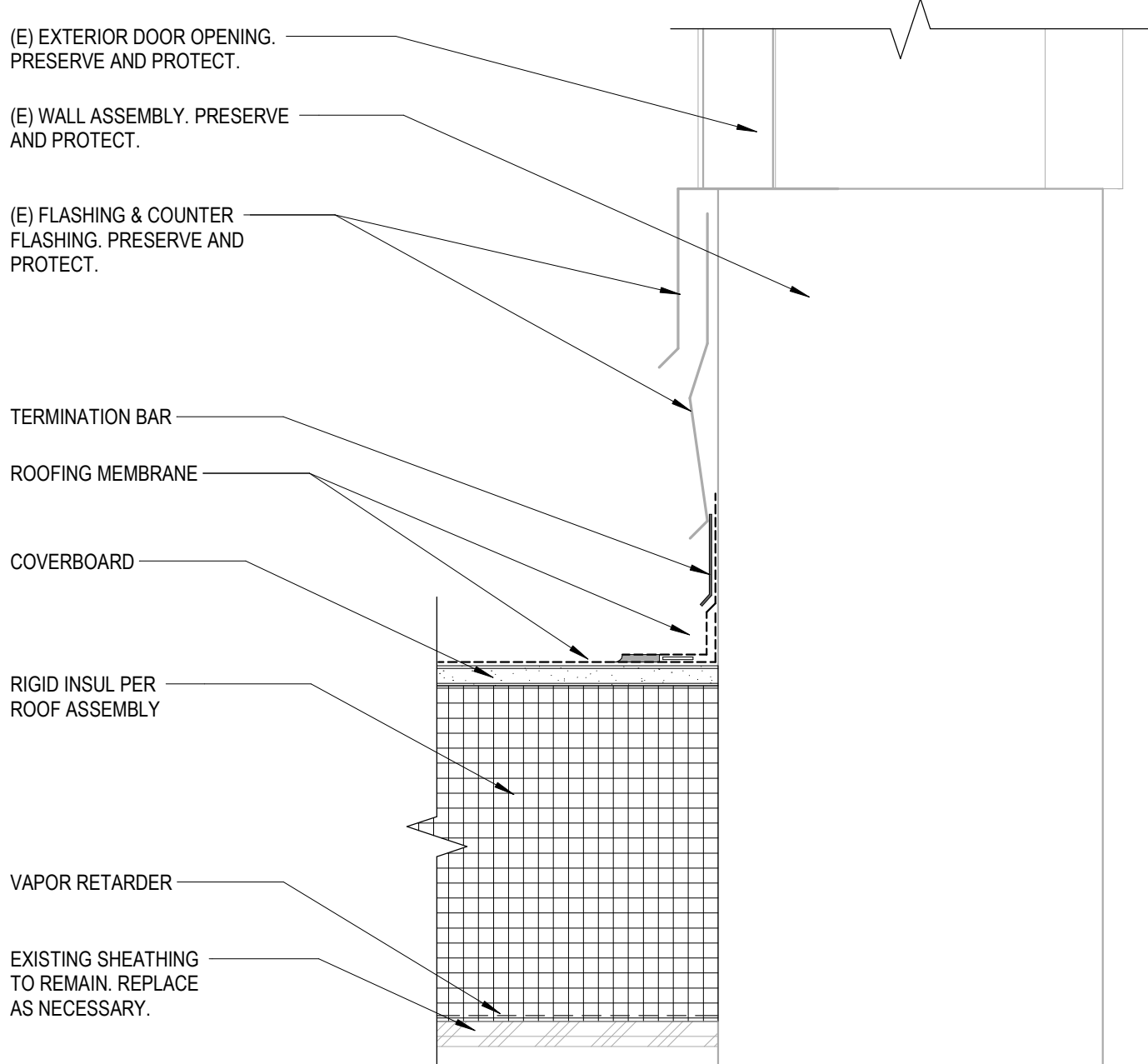
11 PITCHED ROOF TO FLAT THRU WINDOW
1 1/2" = 1'-0" REFERENCE 2 / A25.01



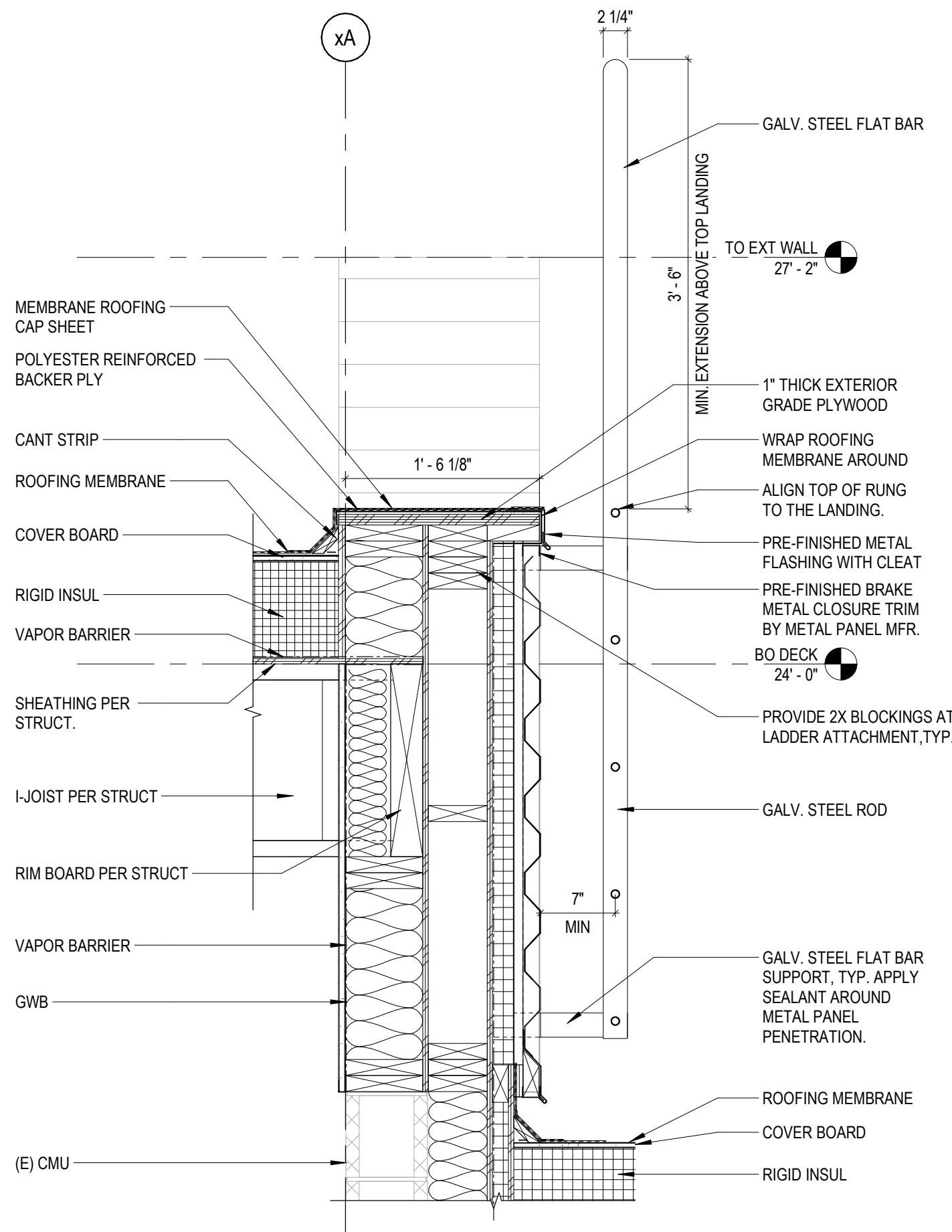
7 PITCHED ROOF TO FLAT ROOF
1 1/2" = 1'-0" REFERENCE 2 / A25.01



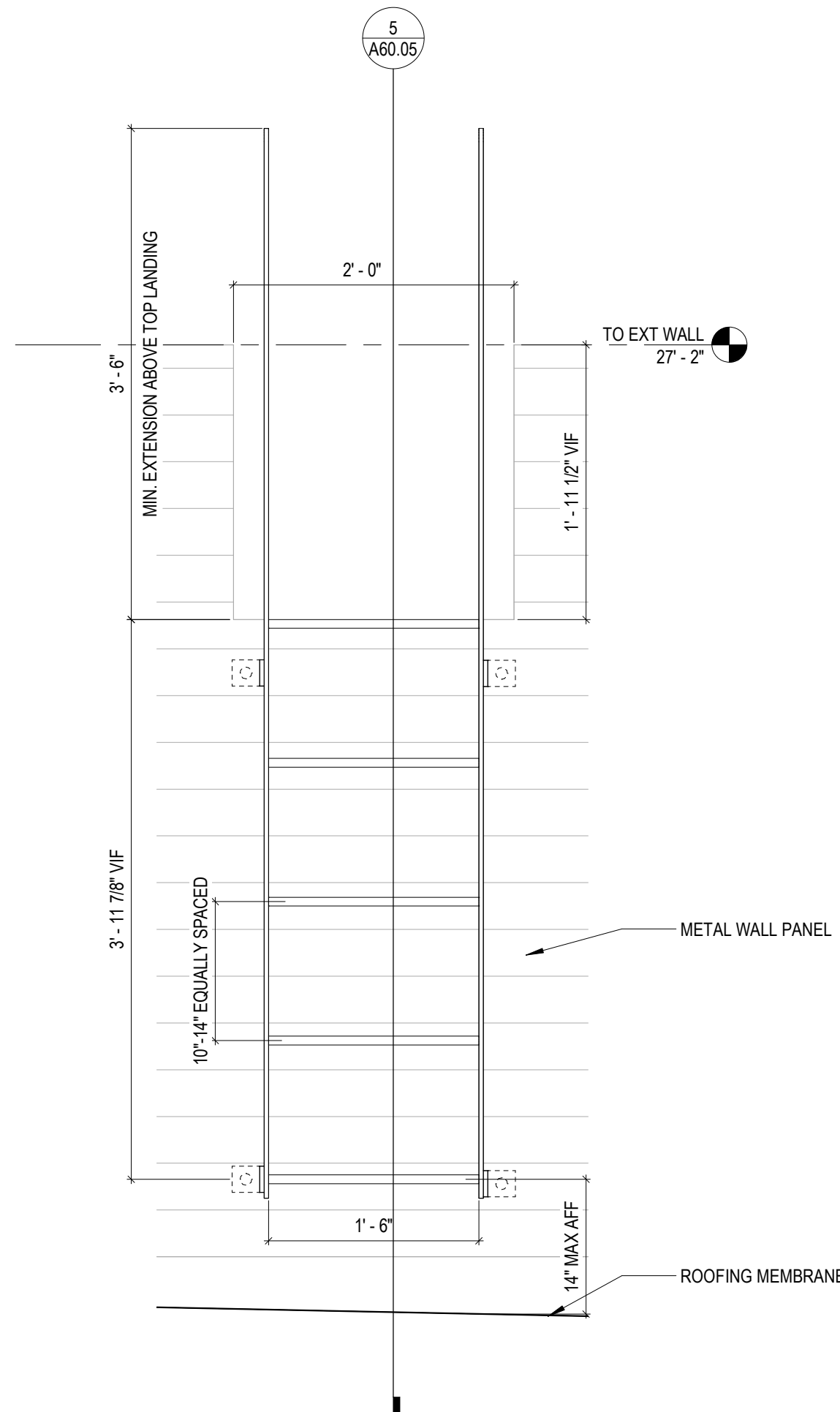
3 CONEX BOX BASE
1 1/2" = 1'-0" REFERENCE 2 / A25.01



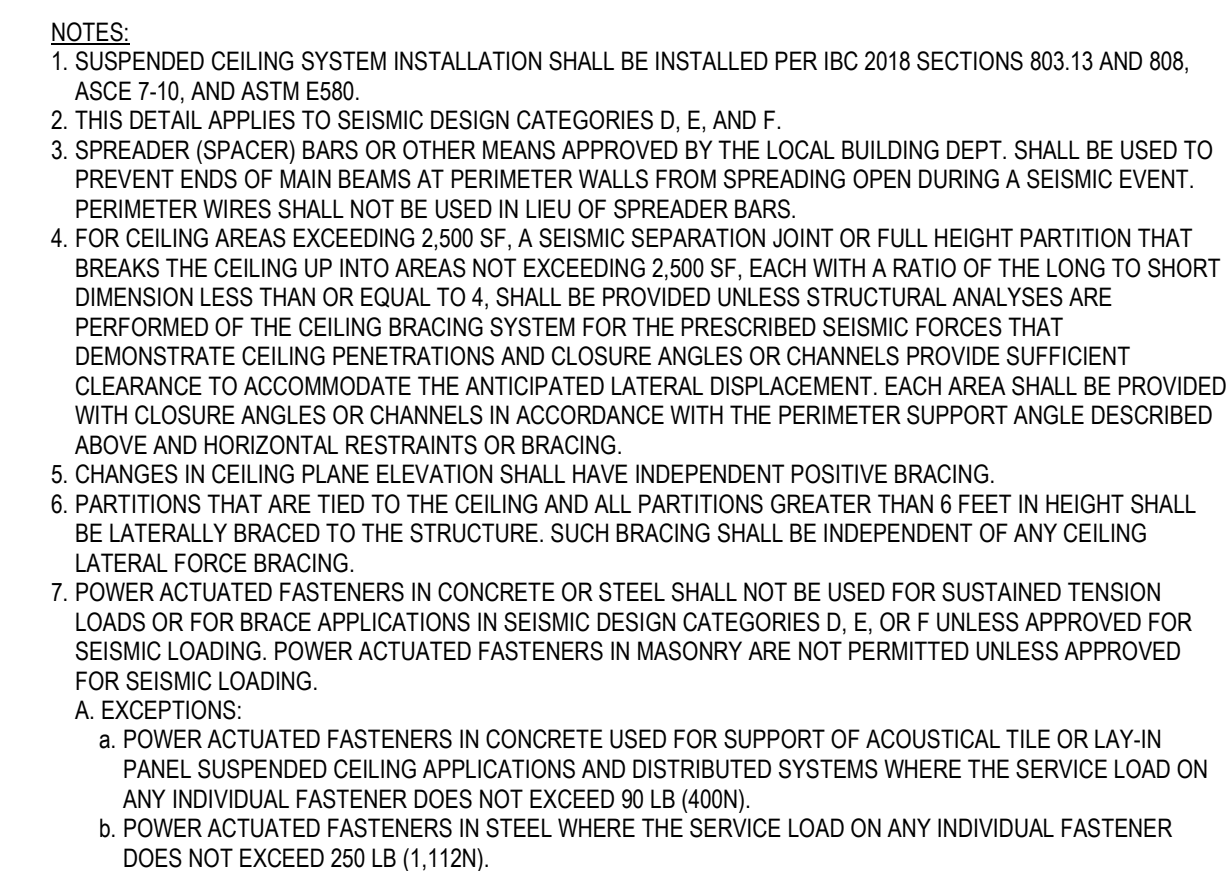
9 DOOR SILL @ ROOF STAIR ACCESS
3" = 1'-0"



5 LADDER SECTION
1" = 1'-0" REFERENCE 1 / A24.01



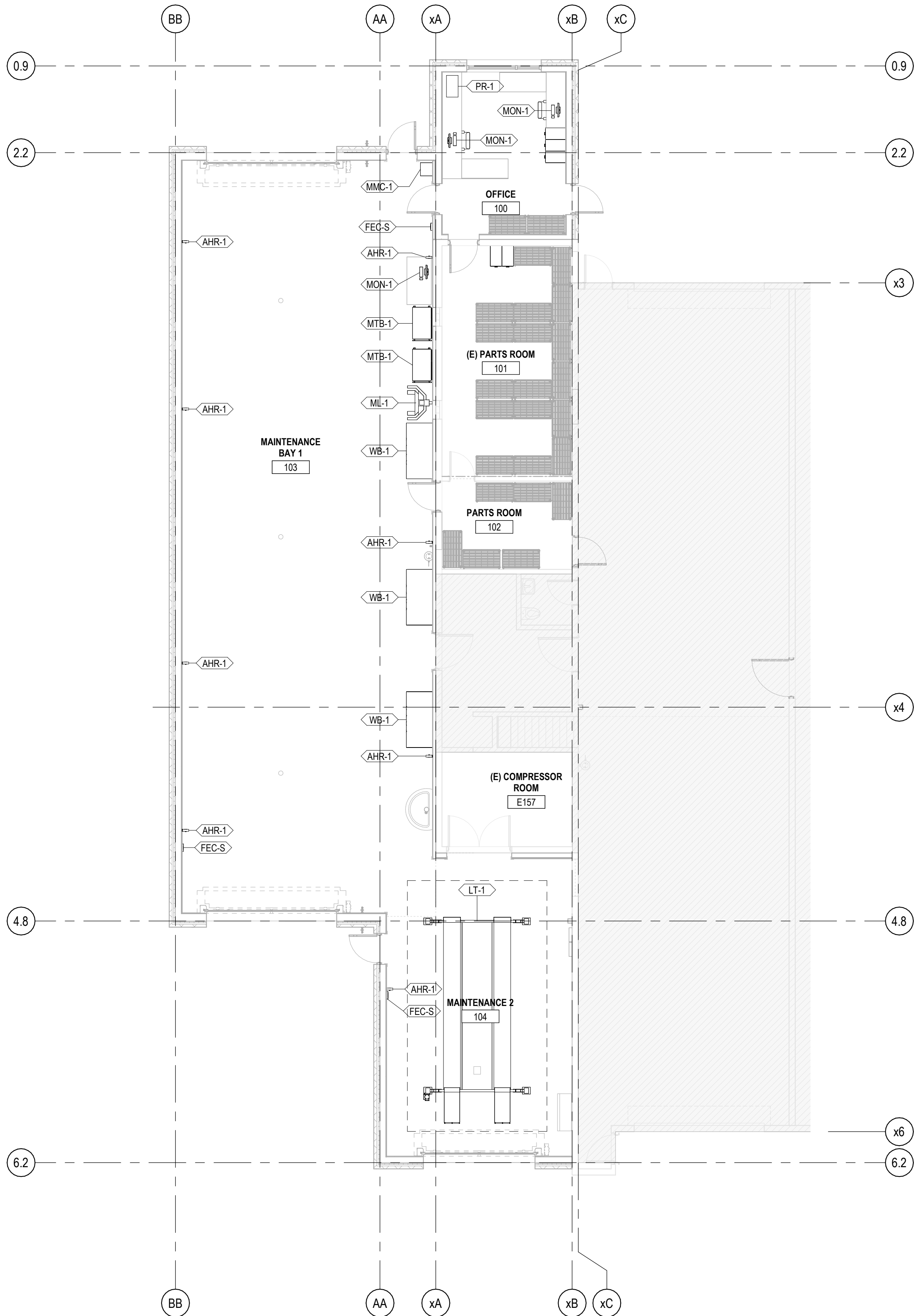
1 LADDER DETAIL ELEVATION
1" = 1'-0" REFERENCE 2 / A25.01



| EQUIPMENT SCHEDULE | | | |
|--------------------|---------------------------------|------------------------|--------------------|
| EQUIP # | EQUIPMENT TYPE | REQUIREMENTS | OFOI / OFCI / CFCI |
| AHR-1 | AIR HOSE REEL | SEE PLUMBING | OFOI |
| FEC-S | SEMI-RECESSED FIRE EXTINGUISHER | | CFCI |
| LT-1 | FOUR POST LIFT - 18 TON | PROVIDE POWER | OFCI |
| ML-1 | MOBILE LIFT (HETRA) | | OFOI |
| MMC-1 | MOBILE MECHANIC CART | PROVIDE POWER | OFOI |
| MON-1 | COMPUTER MONITOR | PROVIDE POWER AND DATA | OFOI |
| MTB-1 | METAL TOOLBOX | | OFOI |
| PR-1 | DESKTOP PRINTER | PROVIDE POWER AND DATA | OFOI |
| WB-1 | WORK BENCH | | OFOI |

NOTES & LEGEND - FF&E PLAN

1. OFFICE FURNITURE SHOWN IN OFFICE 100 IS OFOI.
2. WINDOW BLIND AT OFFICE 100 IS OFOI.
3. RACK SHELVES IN OFFICE 100, (E) PARTS ROOM 101 & PARTS ROOM 102 ARE OFOI. FINAL LAYOUT PER OWNER.
4. TOILET ACCESSORIES SUCH AS PAPER TOWEL & SOAP DISPENSERS FOR THE HANDWASH IN MAINTENANCE BAY 1 ARE OFOI. COORDINATE WITH OWNER & PROVIDE BLOCKING IN WALL.



| | |
|--------------------|-----------|
| PROJECT # | 2022073 |
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| ISSUE DATE | 3/22/2024 |
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| AHJ APPROVAL STAMP | |

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS AND NOTES SHOWN ON THESE DRAWINGS ARE PART OF THE CONSTRUCTION CONTRACT AND SHALL BE PROVIDED BY THE CONTRACTOR. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS AND NOTES. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, REFERENCE STANDARDS, OR GOVERNING CODE, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES AND OBTAIN DIRECTION PRIOR TO PROCEEDING. NOTES ON INDIVIDUAL STRUCTURAL DRAWINGS SHALL TAKE PRIORITY OVER GENERAL STRUCTURAL NOTES. DIMENSIONS NOTED IN THE DRAWINGS SHALL BE FOLLOWED, EXCEPT WHERE EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR. DO NOT SCALE DRAWINGS.

CONTRACTOR-INITIATED CHANGES: SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT FOR APPROVAL AT LEAST 10 WORKING DAYS PRIOR TO FABRICATION AND CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS OR SUBMITTALS ONLY WILL NOT SATISFY THIS REQUIREMENT.

EXISTING CONDITIONS: CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED EITHER ON SITE OBSERVATIONS, ORIGINAL DRAWINGS, OR WERE ASSUMED BASED ON EXPECTED CONDITIONS. IF EXISTING CONDITIONS DO NOT CLOSELY MATCH CONDITIONS SHOWN ON DRAWINGS, OR IF EXISTING MATERIALS ARE OF QUESTIONABLE OR SUBSTANDARD QUALITY, NOTIFY ENGINEER PRIOR TO COMMENCING ANY WORK.

S00.01

DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. EXISTING REINFORCING SHALL BE SAVED WHERE POSSIBLE AND AS NOTED ON DRAWINGS. SAW-CUTTING, IF AND WHERE USED, SHALL NOT CUT EXISTING REINFORCING THAT IS TO BE SAVED. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS SHALL BE LIMITED TO 40 PSF.

- EXISTING REBAR SCANNING: THE GENERAL CONTRACTOR SHALL SELECT THE APPROPRIATE SCANNING METHODS BASED ON CONSTRUCTION MEANS AND METHODS REQUIRED TO INSTALL POST-INSTALLED ANCHORS IN ACCORDANCE WITH DETAILS. GROUND-PENETRATING RADAR, X-RAY, AND MAGNETIC-BASED METHODS ARE ALL ACCEPTABLE METHODS OF SCANNING. HOWEVER, CERTAIN METHODS MAY HAVE LIMITATIONS AND THE APPROPRIATE METHODS AND EQUIPMENT MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. DO NOT CUT, DAMAGE, OR REMOVE EXISTING REBAR TO INSTALL ANCHORS.

REFERENCE STANDARDS: CONCRETE SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING DOCUMENTS EXCEPT AS MODIFIED BELOW:

* A COPY SHALL BE KEPT IN THE CONTRACTOR'S FIELD OFFICE AT ALL TIMES.

| | |
|--------------|-------------------------|
| CEMENT | ASTM C150, C595 |
| * AGGREGATES | ASTM C33 |
| ADMIXTURES | ASTM C260, C494, C1017 |
| ** FLY ASH | ASTM C618, CLASS F OR C |

- CONCRETE MIXES SHALL BE PROPORTIONED TO ACHIEVE A WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. MIX DESIGNS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY ENGINEER PRIOR TO USE. COMPLY WITH IBC SECTION 1904. MIXES SHALL MEET OR EXCEED THE FOLLOWING CRITERIA:

* MIX SHALL BE PROPORTIONED SUCH THAT POST-TENSIONED SLAB DRYING SHRINKAGE NOT EXCEED 0.035 % AT 28 DAYS (LABORATORY CONDITIONS). SUBMIT STRENGTH AND SHRINKAGE TEST DATA AND MIX DESIGN TO THE ARCHITECT FOR REVIEW BY ENGINEER A MINIMUM OF TWO WEEKS PRIOR TO PLACING ANY CONCRETE.

CONCRETE MIXES SHALL MEET OR EXCEED THE REQUIREMENTS SPECIFIED ABOVE. MIXES SHALL BE SUBMITTED TO THE ENGINEER AND BUILDING OFFICIAL FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE AND SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES, AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 318, CHAPTER 26. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

ALL HORIZONTAL SURFACES EXPOSED TO WEATHER SHALL CONTAIN AN AIR-ENTRAINING AGENT COMPLYING WITH ASTM C260. THE AMOUNT OF ENTRAINED AIR SHALL BE IN ACCORDANCE WITH ACI 318-19 TABLE 19.3.3.1. TESTS FOR AIR CONTENT SHALL BE MADE AT THE DISCHARGE END OF THE TRUCK'S PLACING HOSE IN ACCORDANCE WITH ASTM C173.

MAXIMUM AGGREGATE SIZE SHALL BE 1 1/2", BUT NOT MORE THAN 3/4 TIMES THE CLEAR DISTANCE BETWEEN REINFORCING BARS NOR 1/5 TIMES THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS. MAXIMUM AGGREGATE SIZE FOR SLABS ON GRADE SHALL BE 1/3 TIMES THE SLAB THICKNESS.

CIVIL AND SITE COMPONENTS: CONCRETE MIXES FOR CURBS, GUTTERS, SIDEWALKS, EXTERIOR DRIVEWAYS AND OTHER CONCRETE ITEMS OUTSIDE OF THE BUILDING ENVELOPE SHALL MEET THE REQUIREMENTS OF SITE PLANS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE. WHERE SITE COMPONENT CONCRETE MATERIALS ARE NOT SPECIFICALLY NOTED, THE ABOVE REQUIREMENTS FOR "CONCRETE EXPOSED TO SALT AND/OR DE-ICING CHEMICALS" SHALL GOVERN.

BONDING AGENT SHALL BE EPOXY RESIN BASED CONFORMING TO ASTM C881, TYPE V, GRADE 2. USE WHERE NEW CONCRETE IS PLACED AGAINST PREVIOUSLY PLACED OR EXISTING CONCRETE. PLACE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING PREPARATION OF EXISTING SURFACES.

REFERENCE STANDARDS: CONCRETE REINFORCEMENT SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, EXCEPT AS MODIFIED BELOW:

MATERIALS

REINFORCEMENT SHALL BE PLACED AND SUPPORTED IN ACCORDANCE WITH CRSI MSP-1. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH ACI SP-66. NO BENDING OR STRAIGHTENING OF REINFORCEMENT WILL BE PERMITTED AFTER PARTIAL EMBEDMENT IN CONCRETE.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

WELDING OR TACK WELDING OF REINFORCING BARS TO OTHER BARS OR TO PLATES, ANGLES, ETC IS PROHIBITED EXCEPT WHERE SPECIFICALLY NOTED IN DETAILS. WHERE WELDING IS NOTED, IT SHALL BE DONE BY AWS/WABO CERTIFIED WELDERS USING E9018 ELECTRODES. WELDING PROCEDURES SHALL COMPLY WITH AWS-D1.4.

CONCRETE COVER: UNLESS NOTED OTHERWISE, MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE:

EXPANSION BOLTS INTO CONCRETE SHALL BE ONE OF THE FOLLOWING. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND APPLICABLE IAPMO OR ICC-ES REPORTS. NOMINAL EMBEDMENT DEPTH SHALL BE AS NOTED BELOW, UNLESS NOTED OTHERWISE.

SIMPSON STRONG-BOLT 2 (ESR 3037)

DEWALT POWER STUD+ SD2 (ESR 2502)

POXY-GROUTED RODS OR REBAR TO CONCRETE SHALL BE GROUTED WITH ONE OF THE FOLLOWING: SIMPSON SET-3G (ESR-4057), DEWALT PURE110+ (ESR-3298), OR HILTI HIT-HY200 (ESR-3187). INSTALL PER MANUFACTURER'S INSTRUCTIONS AND APPLICABLE IAPMO OR ICC-ES REPORTS. HOLES DRILLED FOR POXY GROUTED INSTALLATIONS SHALL NOT BE CORE-DRILLED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER AND ROUGHENED PER THE ADHESIVE MANUFACTURER'S RECOMMENDATIONS. HOLES SHALL ALSO NOT BE WATER-FILLED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.

EMBEDMENT DEPTHS SHALL BE AS NOTED BELOW, UNLESS NOTED OTHERWISE.

HEAVY DUTY SCREW ANCHORS INTO CONCRETE SHALL BE SIMPSON TITEN HD (ESR-2713), DEWALT SCREW-BOLT (ESR-3889) OR HILTI KWI-KH-EZ (ESR-3027). STAINLESS STEEL HEAVY DUTY SCREW ANCHORS INTO CONCRETE SHALL BE SIMPSON TITEN HD (ER-493).

DRIVE PINS AND OTHER POWER-ACTUATED FASTENERS SHALL BE ITW RAMSET/RED HEAD (ESR-1799), HILTI XU LOW VELOCITY (ESR-2269), DEWALT POWER-DRIVEN FASTENERS (ESR-2024), OR SIMPSON POWDER ACTUATED FASTENERS (ESR-2138). DRIVE PINS OR OTHER POWER-ACTUATED FASTENERS SHALL NOT BE USED IN SUSTAINED TENSION EXCEPT AS ALLOWED BY ASCE 7-16 SECTION 13.4.5.

POST-INSTALLED ANCHORS SHALL NOT BE USED AS SUBSTITUTES FOR CAST-IN-PLACE ANCHOR BOLTS OR REINFORCING STEEL UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.

PRODUCT SUBSTITUTES PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH IAPMO OR ICC-ES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES.

NO REINFORCING BARS SHALL BE CUT TO PLACE POST-INSTALLED ANCHORS. ALL DEFECTIVE ANCHOR HOLES SHALL BE GROUTED WITH FLOWABLE NON-SHRINK, NON-METALLIC, CEMENTITIOUS GROUT WITH MATCHING 28-DAY CONCRETE COMPRESSIVE STRENGTH, AND A NEW HOLE DRILLED A MINIMUM OF 3 BOLT DIAMETERS AWAY.



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PROJECT # 262023.01

BID SET

ISSUE DATE 3/22/2024

REVISION SCHEDULE

[illegible]

GENERAL STRUCTURAL NOTES

SHEET #

\$00.02

REFERENCE STANDARDS: STRUCTURAL STEEL SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING DOCUMENTS:

MATERIALS:

STEEL FABRICATOR CERTIFICATION: STRUCTURAL STEEL SHALL BE FABRICATED BY AN AISC-CERTIFIED STEEL FABRICATOR. SEE SPECIFICATIONS FOR REQUIREMENTS.

STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE ZINC-COATED HOT-DIPPED GALVANIZED PER ASTM A123. ALL FIELD WELDS EXPOSED TO WEATHER SHALL BE COATED WITH BRUSH APPLIED PAINT CONTAINING ZINC DUST COMPLYING WITH ASTM A780. ALL BOLTS AND ANCHOR RODS EXPOSED TO WEATHER SHALL BE ZINC-COATED HOT-DIPPED GALVANIZED PER ASTM A153.

WELDING: ALL WELDS SHALL COMPLY WITH AWS D11. WELDS SHALL BE MADE USING LOW HYDROGEN E70XX ELECTRODES. ONLY AWS PREQUALIFIED WELDED JOINTS SHALL BE USED. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 STANDARD SYMBOLS. WELDS SHOWN ON DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. WELDS NOT SPECIFIED SHALL BE CONTINUOUS 3/16" FILLET WELDS.

WELDER CERTIFICATION: AWS OR WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO).

HOLE SIZES IN STEEL MEMBERS FOR CONNECTIONS TO CONCRETE OR MASONRY SHALL BE AS FOLLOWS UNLESS SPECIFIED OTHERWISE IN THE DRAWINGS.

** USE OF LARGER HOLES REQUIRES WELDED PLATE WASHERS AND PRIOR APPROVAL BY THE STRUCTURAL ENGINEER.

COLUMN BASE PLATES: ANCHOR RODS IN COLUMN BASE PLATES SHALL BE INSTALLED TO AISC SNUG-TIGHT CRITERIA WITH HEX NUTS AND LOCK WASHERS OR JAM NUTS AT THE TOP. AT THE BOTTOM, PROVIDE A STANDARD SIZE HEAD, TACK-WELDED NUT OR DOUBLE NUT. NO HEATING OR BENDING OF ANCHOR RODS IS PERMITTED. ENLARGEMENT OF ANCHOR ROD HOLES BY BURNING IS NOT PERMITTED. BASE PLATE HOLES FOR ANCHOR RODS SHALL BE AS SHOWN BELOW.

WELDED HEADED STUDS (WHS) AND THREADED STUDS (CPL OR CFL) SHALL COMPLY WITH ASTM A108 GR.1010 THROUGH 1020 WITH MINIMUM TENSILE STRENGTH OF 60 KSI. STUDS SHALL BE WELDED IN CONFORMANCE WITH THE REQUIREMENTS OF AWS CHAPTER 7. UNLESS OTHERWISE NOTED, STUDS SHALL BE WELDED BY THE AUTOMATIC MACHINE WELDING PROCESS WITH EQUIPMENT RECOMMENDED BY THE MANUFACTURER. LENGTHS SHOWN ON DRAWINGS ARE FINAL LENGTHS AFTER WELDING.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL: ANY STRUCTURAL STEEL THAT IS EXPOSED TO VIEW UPON COMPLETION OF THE PROJECT SHALL COMPLY WITH SECTION 10 OF AISC 303. SEE SPECIFICATIONS FOR SPECIFIC FABRICATION AND ERECTION REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.

REFERENCE STANDARDS: MASONRY SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING DOCUMENTS

MASONRY CONSTRUCTION SHALL COMPLY WITH IBC SECTION 2104. MASONRY SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE. MASONRY NOT LAID IN RUNNING BOND SHALL BE FULLY GROUTED AND SHALL BE CONSTRUCTED OF HOLLOW OPEN-ENDED UNITS.

HOLLOW BRICK UNITS SHALL BE GRADE SW AND COMPLY WITH ASTM C652

CONCRETE MASONRY UNITS SHALL BE MEDIUM OR NORMAL-WEIGHT AND SHALL COMPLY WITH ASTM C90 WITH NET AREA COMPRESSIVE STRENGTH OF 2,000 PSI. UNITS SHALL BE PROTECTED FROM EXPOSURE TO MOISTURE PRIOR TO CONSTRUCTION.

MORTAR SHALL BE TYPE S AND SHALL COMPLY WITH ASTM C270. PROPORTIONS SHALL COMPLY WITH IBC 2103.2.1 AND TMS 602 ARTICLES 2.1 AND 2.6A, INCLUDING TABLES SC-1 AND SC-2. MASONRY CEMENT SHALL NOT BE USED. AGGREGATE SHALL COMPLY WITH ASTM C144.

GROUT SHALL CONFORM TO ASTM C476, IBC SECTION 2103.3 AND TMS 602 ARTICLE 2.2 AND 2.6B. GROUT STRENGTH BASED ON 28-DAY TESTS SHALL BE 2,000 PSI, MINIMUM. MORTAR SAND SHALL NOT BE USED. GROUT SHALL BE POURED IN MAXIMUM LIFTS OF 5'-4". GROUT SHALL BE VIBRATED DURING PLACEMENT TO ENSURE THAT CELLS ARE COMPLETELY FILLED. ALL CELLS CONTAINING VERTICAL BARS OR EMBEDDED ITEMS, ALL CELLS BELOW GRADE, AND ALL BOND BEAMS SHALL BE FILLED WITH GROUT. WALLS SHALL BE GROUTED SOLID, UNLESS NOTED OTHERWISE.

REINFORCING STEEL DEFORMED BARS SHALL BE ASTM A615, GRADE 60. LAP BARS 48 DIAMETERS AT SPLICES, UNLESS NOTED OTHERWISE. MINIMUM WALL REINFORCEMENT SHALL BE AS FOLLOWS:

PROVIDE (1) #5 VERTICAL FOR THE FULL HEIGHT OF THE WALL AT EACH SIDE OF OPENINGS, AT WALL CORNERS AND INTERSECTIONS, AND AT FREE ENDS OF WALLS. PROVIDE (2) #5 HORIZONTAL AT ELEVATED FLOOR AND ROOF SLAB LINES, AT TOPS OF WALLS, AND ABOVE AND BELOW ALL OPENINGS. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAMS. EXTEND REINFORCEMENT AROUND OPENINGS 2'-0" BEYOND FACE OF OPENING, OR AS FAR AS POSSIBLE, AND HOOK. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT WALL CORNERS AND INTERSECTIONS.

MASSONRY AND CONCRETE VENEER, WITH MAXIMUM WEIGHT OF 40 PSF SHALL BE ANCHORED TO BACKING WALLS WITH PER LAB SECTION 1404.6 WITH SEISMICALLY RATED STAINLESS STEEL ZINC-COATED HOT-DIPPED GALVANIZED PER ASTM A153 VENEER ANCHORS EMBEDDED IN MORTAR JOINTS AND EXTENDED INTO THE VENEER A MINIMUM OF 12" WITH A MINIMUM OF 5/8" MORTAR OR GROUT COVER TO THE EXTERIOR FACE. TIES SHALL BE SPACED SO AS TO SUPPORT NOT MORE THAN TWO SQUARE FEET OF WALL AREA AND SHALL BE SPACED NOT MORE THAN 24" OC HORIZONTALLY AND 18" OC VERTICALLY. TIES SHALL HAVE A LIP, HOOK, OR SEISMIC CLIP ON THE EXTENDED LEG THAT WILL ENGAGE OR ENCLOSE A CONTINUOUS NO. 9 GAGE (1/48" DIAMETER OR W1.7) JOINT REINFORCEMENT WIRE. JOINT REINFORCEMENT SHALL BE CONTINUOUS WITH BUTT SPLICES BETWEEN TIES PERMITTED. CORRUGATED WALL TIES ARE NOT PERMITTED. VENEER ANCHORS SHALL BE FASTENED BACKING WALLS WITH (2) #10 SELF-TAPPING CORROSION RESISTANT SCREWS COMPATIBLE WITH THE VENEER ANCHOR PLATE.

MASONRY VENEER ANCHORS MAY BE SELECTED FROM ONE OF THE FOLLOWING SYSTEMS, OR APPROVED EQUAL:

METAL STUD BACKING:

1. HOHMANN & BARNARD HB-213-2X S.I.S. ADJUSTABLE SEISMIC VENEER ANCHOR
2. HOHMANN & BARNARD HB-213-2X SH ADJUSTABLE SEISMIC VENEER ANCHOR
3. HOHMANN & BARNARD THERMAL 2-SEAL WING NUT ANCHOR

CONCRETE, CONCRETE MASONRY, OR WOOD STUD BACKING:

1. HOHMANN & BARNARD HB-213-2X S.I.S. ADJUSTABLE SEISMIC VENEER ANCHOR
2. HOHMANN & BARNARD HB-213-2X SH ADJUSTABLE SEISMIC VENEER ANCHOR
3. HOHMANN & BARNARD THERMAL CONCRETE 2-SEAL WING NUT ANCHOR

POST-INSTALLED ANCHORS INTO CONCRETE-MASONRY UNIT (CMU) WALLS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND NOTED ICC-ES OR IAPMO UES REPORTS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY ENGINEER WITH VALID ICC-ES OR IAPMO REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. ANCHORS SHALL BE THE FOLLOWING TYPES:

ADHESIVE ANCHORS IN SOLID GROUTED OR HOLLOW CMU SHALL BE SIMPSON SET-XP (APMO ER-265) OR AT-XP (ER-281), HILTI HY-270 (ESR-4143), OR DEWALT/POWERS AC100+ GOLD (ESR-3200). PROVIDE SCREEN TUBES IN HOLLOW CMU AS INDICATED BY THE ANCHOR MANUFACTURER.

EXPANSION ANCHORS INTO SOLID GROUTED CMU SHALL BE SIMPSON STRONG-BOLT 2 (ER-240) OR WEDGE-ALL (ESR-1396), HILTI KWIK BOLT TZ2 (ESR 4266), OR DEWALT/POWERS POWER-STUD + SD1 (ESR-2966).

HEAVY DUTY SCREW ANCHORS INTO SOLID GROUTED CMU SHALL BE SIMPSON TITEN HD (ESR-1056), DEWALT SCREW-BOLT+ (ESR-4042) OR HILTI KWIK HUS-EZ (ESR-3056).

REFERENCE STANDARDS: WOOD SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING DOCUMENTS:

ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE IBC. MINIMUM NAILING SHALL CONFORM TO IBC TABLE 2304.10.2 OR CURRENT ICC-ES REPORT ESR-1539, UNLESS OTHERWISE NOTED. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF LAG SCREWS SHALL CONFORM TO NDS SECTION 12.1.4, AND INSTALLATION OF BOLTS SHALL CONFORM TO NDS SECTION 12.1.3.

WALL FRAMING: TWO STUDS MINIMUM SHALL BE INSTALLED AT THE ENDS OF ALL WALLS, UNLESS OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMNS THROUGH FLOOR SPACES TO SUPPORTS BELOW.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12" OC STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0" OC PER BIC SECTION 2308.3 (EMBED 7"), UNLESS OTHERWISE NOTED. 3" x 3" x 0.229" PLATE WASHERS SHALL BE USED WITH ALL SILL PLATE ANCHOR BOLTS PER BIC SECTION 2308.3.1.1 AND SDPPWS SECTION 4.3.6.4.3. INDIVIDUAL MEMBERS OF BUILT-UP STUD POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12" OC STAGGERED.

FLOOR AND ROOF FRAMING: INSTALL DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS. INSTALL SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH 16d @ 12" OC STAGGERED.

ROOF, FLOOR & WALL SHEATHING SHALL BE APA RATED, EXTERIOR OR EXPOSURE 1 STRUCTURAL I PLYWOOD OR ORIENTED STRAND BOARD (OSB) IN CONFORMANCE WITH IBC SECTION 2303.1.5. SHEATHING SHALL BE MANUFACTURED UNDER THE PROVISIONS OF VOLUNTARY PRODUCT STANDARDS PS 1-09, PS 2-10, OR APA PRP-108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL USE PANELS. SEE DRAWINGS FOR THICKNESS, SPAN RATING, AND NAILING REQUIREMENTS. UNLESS OTHERWISE NOTED, WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING OF 24/0. GUE FLOOR SHEATHING TO ALL SUPPORTING MEMBERS WITH ADHESIVE CONFORMING TO APA SPECIFICATION AFG-01.

ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AS SHOWN ON THE DRAWINGS. INSTALL APPROVED PANEL EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" OC. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS, INSTALL FLAT 2x BLOCKING AT ALL UNFRAMED PANEL EDGES AND NAIL WITH EDGE NAILING SPECIFIED.

ALL PRESSURE-TREATED (P.T.) WOOD MEMBERS SPECIFIED ON THE DRAWINGS SHALL BE PRESSURE-TREATED WITH ALKALINE COPPER QUAT (ACQ) OR COPPER AZOLE (CA) PRESERVATIVES, CATEGORY UC3B, UNLESS OTHERWISE NOTED. WOOD SHALL BE TREATED IN ACCORDANCE WITH AWPAs STANDARD U1. AMMONIACAL COPPER ZINC ARSENATE (ACZA) PRESERVATIVE, OR OTHER PRESERVATIVES WITH AMMONIA CARRIERS, SHALL NOT BE USED. SEE GENERAL STRUCTURAL NOTES BELOW FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE-TREATED MEMBERS. INSTALL (2) LAYERS OF ASPHALT-IMPREGNATED BUILDING PAPER BETWEEN UNTREATED LEDGERS, BLOCKING, ETC., AND CONCRETE OR MASONRY.

SAWN LUMBER: SAWN LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY APPROVED BY AN ACCREDITATION BODY COMPLYING WITH US DEPARTMENT OF COMMERCE PS20. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17. SAWN LUMBER SPECIES AND GRADES SHALL BE AS FOLLOWS:

ALL LAMINATED MEMBERS (GLULAMS) SHALL BE MANUFACTURED IN CONFORMANCE WITH ANSI/APA 190.0 AND ASTM D3737. EACH MEMBER SHALL BEAR AN AITC OR APA IDENTIFICATION MARK AND BE ACCOMPANIED BY AN AITC CERTIFICATE OF PERFORMANCE. THE FOLLOWING SENTENCE IS ONLY APPLICABLE TO PRESSURE-TREATED GLULAMS: FIELD-DRILLED HOLES, NOTCHES, AND MINOR DAMAGE AREAS SHALL BE FIELD TREATED PER APWA M4, WITH AN ENGINEER APPROVED TREATMENT PRODUCT THAT HAVE BEEN FIELD CUT AFTER TREATMENT SHALL BE SCATTER NAILED WITH 3-INCH COPPER NAILS AT 2-INCHES ON CENTER EACH WAY IN ADDITION TO TREATMENT. GLULAMS SHALL BE INDUSTRIAL GRADE WHERE NOT EXPOSED TO VIEW AND ARCHITECTURAL GRADE WHERE EXPOSED TO VIEW. GLULAMS SHALL HAVE THE STRENGTH GRADES AS NOTED BELOW:

| | |
|--------------------------------------|--|
| SIMPLE SPAN BEAMS: | DOUGLAS FIR 24F-V4 Fb = 2400 PSI, Fv = 265 PSI, E = 1800 KSI |
| CONTINUOUS OR CANTILEVER BEAMS: | DOUGLAS FIR 24F-V8 Fb = 2400 PSI, Fv = 265 PSI, E = 1800 KSI |
| COLUMNS, TRUSSES: (2 LAMINATIONS) | DOUGLAS FIR 1-DF-L3 Fc = 1200 PSI, Fbyy = 1000 PSI, Fbxx = 1250 PSI, E = 1500 KSI |
| (3 LAMINATIONS) | DOUGLAS FIR 1-DF-L3 Fc = 1200 PSI, Fbyy = 1250 PSI, Fbxx = 1250 PSI, E = 1500 KSI |
| (4 OR MORE LAMINATIONS) | DOUGLAS FIR 1-DF-L3 Fc = 1550 PSI, Fbyy = 1450 PSI, Fbxx = 1500 PSI, E = 1500 KSI |

ALL TIMBER FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE-TREATED WOOD SHALL BE POST HOT DIP GALVANIZED PER ASTM A153.

SEE EARTHQUAKE DESIGN DATA SECTION OF THE GENERAL STRUCTURAL NOTES FOR SEISMIC-FORCE RESISTING-SYSTEMS. SEISMIC-FORCE-RESISTING SYSTEMS (INCLUDING DRAG STRUTS AND CHORDS) ARE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH THE FOLLOWING SEISMIC AND NON-SEISMIC TABLES. STRUCTURAL SYSTEMS NOT PART OF THE SEISMIC-FORCE-RESISTING SYSTEM NEED ONLY BE INSPECTED IN ACCORDANCE WITH NON-SEISMIC TABLES. SEE THE 2019 CBC CHAPTER 17[A] FOR ADDITIONAL REQUIREMENTS.

STRUCTURAL STEEL SPECIAL INSPECTION

SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE ACCORDANCE WITH AISC 341, AISC 360, AND THE FOLLOWING INFORMATION.

- TASK

-

INDICATES WHETHER TO OBSERVE OR PERFORM (OR BOTH) THE INSPECTION TASK.
- DOC

-

THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- O

-

THESE FUNCTIONS ON A RANDOM, DAILY BASIS, OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED INACCORDANCE WITH THE APPLICABLE DOCUMENTS.
- P

-

PERFORM, FOR EACH JOINT OR MEMBER PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.
- QC

-

TASKS INDICATED AS "QC" SHALL BE EXECUTED BY THE FABRICATOR AND ERECTOR IN ACCORDANCE WITH AISC 360 CHAPTER N.
- QA

-

TASKS INDICATED AS "QA" SHALL BE EXECUTED BY THE SPECIAL INSPECTOR IN ACCORDANCE WITH AISC 360 CHAPTER N.

STEEL DETAILS

| INSPECTION TASKS | QC | QA | REFERENCED STANDARD |
|---|----|----|---------------------|
| INSPECT THE FABRICATED STEEL AND ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION | QC | QA | AISC 360 CH. N |

WELDING

| INSPECTION TASKS PRIOR TO WELDING | REFERENCED STANDARD | CBC REFERENCE |
|---|---------------------|---------------|
| INSPECTION TASKS PRIOR TO WELDING | QC | QA |
| WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE | P | P |
| MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | P | P |
| MATERIAL IDENTIFICATION (TYPE / GRADE) | O | O |
| WELDER IDENTIFICATION SYSTEM ¹ | O | O |
| FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY), JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE) | O | O |
| CONFIGURATION AND FINISH OF ACCESS HOLES | O | O |
| FIT-UP OF FILLET WELDS, DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION) | O | O |
| CHECK WELDING EQUIPMENT | O | - |
| INSPECTION TASKS DURING WELDING | REFERENCED STANDARD | CBC REFERENCE |
| INSPECTION TASKS DURING WELDING | QC | QA |
| USE OF QUALIFIED WELDERS | O | O |
| CONTROL AND HANDLING OF WELDING CONSUMABLES, PACKAGING, EXPOSURE CONTROL | O | O |
| NO WELDING OVER CRACKED TACK WELDS | O | O |
| ENVIRONMENTAL CONDITIONS, WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE | O | O |
| WPS FOLLOWED, SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE / FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MINIMUM / MAXIMUM), PROPER POSITION (F, V, H, OH) | O | O |
| WELDING TECHNIQUES, INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS | O | O |
| INSPECTION TASKS AFTER WELDING | REFERENCED STANDARD | CBC REFERENCE |
| INSPECTION TASKS AFTER WELDING | QC | QA |
| WELDS CLEANED | O | O |
| SIZE, LENGTH AND LOCATION OF WELDS | P | P |
| WELDS MEET VISUAL ACCEPTANCE CRITERIA, CRACK PROHIBITION, WELD / BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY | P | P |
| ARC STRIKES | P | P |
| k-AREA ² | P | P |
| BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) | P | P |
| REPAIR ACTIVITIES | P | P |
| DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER | P | P |

¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

² WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 INCHES OF WELD.

BOLTING

| INSPECTION TASKS PRIOR TO BOLTING | REFERENCED STANDARD | CBC REFERENCE |
|--|---------------------|---------------|
| INSPECTION TASKS PRIOR TO BOLTING | QC | QA |
| MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS | O | P |
| FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS | O | O |
| PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) | O | O |
| PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL | O | O |
| CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS | O | O |
| PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED | P | O |
| PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS | O | O |
| INSPECTION TASKS DURING BOLTING | REFERENCED STANDARD | CBC REFERENCE |
| INSPECTION TASKS DURING BOLTING | QC | QA |
| FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED | O | O |
| JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION | O | O |
| FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING | O | O |
| FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | O | O |
| INSPECTION TASKS AFTER BOLTING | REFERENCED STANDARD | CBC REFERENCE |
| INSPECTION TASKS AFTER BOLTING | QC | QA |
| DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS | P | P |

REQUIRED VERIFICATION AND INSPECTION OF SOILS

| VERIFICATION AND INSPECTION TASK | CONTINUOUS | PERIODIC | REFERENCED STANDARD | CBC REFERENCE |
|---|------------|----------|---------------------|---------------|
| 1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY | - | X | - | 1705[A].6 |
| 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL | - | X | - | 1705[A].6 |
| 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS | - | X | - | 1705[A].6 |
| 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL | X | - | - | 1705[A].6 |
| 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY | - | X | - | 1705[A].6 |

SPECIAL INSPECTION OF CONCRETE CONSTRUCTION

| VERIFICATION AND INSPECTION | CONTINUOUS | PERIODIC | REFERENCED STANDARD ¹ | CBC REFERENCE |
|--|------------|----------|--|----------------------|
| 1. INSPECT REINFORCEMENT | - | X | ACI 318: CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3 | |
| 2. REINFORCING BAR WELDING: | | | | |
| a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 | - | X | AWS D1.4 | - |
| b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" | - | X | ACI 318: 26.6.4 | |
| c. INSPECT ALL OTHER WELDS | X | - | | |
| 3. INSPECT ANCHORS CAST IN CONCRETE | - | X | ACI 318: 17.8.2 | - |
| 4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS ² | | | | |
| a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS | X | - | ACI 318: 17.8.2 | - |
| b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a | - | X | ACI 318: 17.8.2.4 | - |
| 5. VERIFY USE OF REQUIRED DESIGN MIX | - | X | ACI 318: CH. 19, 26.4.3, 26.4.4 | 1904[A].1, 1904[A].2 |
| 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE | X | - | ASTM C 172 ASTM C 31 ACI 318: 26.4, ACI 318:26.12, ASTM C 231, ASTM C 143, ASTM C 1064 | |
| 7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES | X | - | ACI 318: 26.5 | |
| 8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED | - | X | ACI 318: 26.11.1,2 ² | - |

¹ WHERE APPLICABLE, SEE ALSO CBC SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED

² SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK.

HIGH LOAD WOOD DIAPHRAGMS

| VERIFICATION AND INSPECTION TASK | CONTINUOUS | PERIODIC | REFERENCED STANDARD | CBC REFERENCE |
|--|------------|----------|------------------------|---------------|
| 1. HIGH LOAD DIAPHRAGMS PER CBC SECTION 2306.2: | | | | |
| a. CONFIRM SHEATHING IS OF THE GRADE AND THICKNESS AS SHOWN ON THE APPROVED BUILDING PLANS | | X | AF AND PA SDPWS - 2018 | 1705[A].5 |
| b. VERIFY NOMINAL SIZE OF FRAMING AT PANEL EDGES | | X | AF AND PA SDPWS - 2018 | 1705[A].5 |
| c. VERIFY NAIL OR STAPLE DIAMETER AND LENGTH | | X | AF AND PA SDPWS - 2018 | 1705[A].5 |
| d. VERIFY NUMBER OF FASTENER LINES, THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE | | X | AF AND PA SDPWS - 2018 | 1705[A].5 |

SEISMIC REQUIREMENTS FOR WOOD CONSTRUCTION

| VERIFICATION AND INSPECTION TASK | CONTINUOUS | PERIODIC | REFERENCED STANDARD | CBC REFERENCE |
|--|------------|----------|------------------------|---------------|
| 1. FIELD GLUING OF SEISMIC ELEMENTS | X | | AF AND PA SDPWS - 2018 | 1705[A].12.2 |
| 2. NAILING BOLTING, ANCHORING AND FASTENING OF WOOD SHEAR WALLS, WOOD DIAPHRAGM, COLLECTORS / DRAG STRUTS, BRACES, SHEAR PANELS AND HOLDOWNS | | X | AF AND PA SDPWS - 2018 | 1705[A].12.2 |

NON-STRUCTURAL COMPONENTS SEISMIC REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS

| VERIFICATION AND INSPECTION TASK | CONTINUOUS | PERIODIC | REFERENCED STANDARD | CBC REFERENCE |
|--|------------|----------|---------------------|----------------|
| 1. DESIGNATED SEISMIC SYSTEM | | | | |
| a. VERIFY THE LABEL, ANCHORAGE AND MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE | | X | ASCE 7 SECTION 13.2 | 1705[A].12.4 |
| 2. ARCHITECTURAL COMPONENTS | | | | |
| a. ERECTION AND FASTENING OF EXTERIOR CLADDING ^{1,2} | | X | - | 1705[A].12.5 |
| b. ERECTION AND FASTENING OF INTERIOR AND EXTERIOR NON-BEARING WALLS ^{1,2} | | X | - | 1705[A].12.5 |
| c. ERECTION AND FASTENING OF INTERIOR AND EXTERIOR VENEER ^{1,2} | | X | - | 1705[A].12.5 |
| d. ANCHORAGE OF ACCESS FLOORS | | X | - | 1705[A].12.5.1 |
| 3. PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS | | | | |
| a. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS | | X | - | 1705[A].12.6 |
| b. ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT | | X | - | 1705[A].12.6 |
| c. INSTALLATION AND ANCHORAGE OF PIPING SYSTEM DESIGNED TO CARRY HAZARDOUS MATERIALS AND THERE ASSOCIATED MECHANICAL UNITS | | X | - | 1705[A].12.6 |
| d. INSTALLATION AND ANCHORAGE OF DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS | | X | - | 1705[A].12.6 |
| e. INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEM WHERE THE NOMINAL CLEARANCE BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAIN IS 1/4 INCH OR LESS | | X | - | 1705[A].12.6 |
| 4. STORAGE RACK | | | | |
| a. ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT | | X | - | 1705[A].12.7 |

¹ SPECIAL INSPECTION IS NOT REQUIRED FOR EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS AND INTERIOR AND EXTERIOR VENEER 30 FEET OR LESS IN HEIGHT ABOVE GRADE [OR A WALKING SURFACE].

² SPECIAL INSPECTION IS NOT REQUIRED FOR EXTERIOR CLADDING AND INTERIOR AND EXTERIOR VENEER WEIGHING 5 PSF OR LESS. SPECIAL INSPECTION IS NOT REQUIRED FOR INTERIOR NON-BEARING WALLS WEIGHING 15 PSF OR LESS.

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SPFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

163 VILLAGE COURT
MONROE, WA 98272

| | |
|--------------------|------------|
| PROJECT # | 262023.015 |
| BID SET | |
| ISSUE DATE | 3/22/2024 |
| REVISION SCHEDULE | |
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| AHJ APPROVAL STAMP | |

SPECIAL INSPECTION SCHEDULES



SPFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

163 VILLAGE COURT
MONROE, WA 98272

[illegible]

AHJ APPROVAL STAMP

SPECIAL INSPECTION SCHEDULES

SHEET #

\$00.06

MASONRY CONSTRUCTION
MINIMUM VERIFICATION PRIOR TO CONSTRUCTION.
VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION

| VERIFICATION AND INSPECTION TASK | CONTINUOUS | PERIODIC | REFERENCED STANDARD | | CBC REFERENCE |
|---|----------------|----------------|---|--|------------------|
| | | | TMS 402 / ACI 530.1 / ASCE 5 | TMS 602 / ACI 530.1 / ASCE 6 | |
| 1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS | | X | | ART. 1.5 | 1705[A].4 |
| 2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | | |
| a. PROPORTIONS OF SITE-PREPARED MORTAR | | X | | ART. 2.1, 2.6A | 1705[A].4 |
| b. CONSTRUCTION OF MORTAR JOINTS | | X | | ART. 3.3B | 1705[A].4 |
| c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES | | X | | ART. 2.4B, 2.4H | 1705[A].4 |
| d. LOCATION OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES | | X | | ART. 3.4, 3.6A | 1705[A].4 |
| e. PRESTRESSING TECHNIQUE | | X | | ART. 3.6B | 1705[A].4 |
| f. PROPERTIES OF THIN-BED MORTAR FOR ACC MASONRY | X ¹ | X ² | | ART. 2.1C | 1705[A].4 |
| 3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | | |
| a. GROUT SPACE | | X | | ART. 3.2D, 3.2F | 1705[A].4 |
| b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES | | X | SECTIONS 6.1, 6.2.1, 6.2.6, 6.2.7 | ART. 2.4, 3.4 | 1705[A].4 |
| c. PLACEMENT OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES | | X | SECTION 6.1 | ART. 3.2, E, 3.4, 3.6A | 1705[A].4 |
| d. PROPORTION OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BOUNDED TENDONS | | X | | ART. 2.6B, 2.4 G.1.b | 1705[A].4 |
| e. CONSTRUCTION OF MORTAR JOINTS | | X | | ART. 3.3B | 1705[A].4 |
| 4. VERIFY DURING CONSTRUCTION: | | | | | |
| a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS | | X | | ART. 3.3F | 1705[A].4 |
| b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAME, OR OTHER CONSTRUCTION | | X | SECTIONS 6.1.4.3, 6.2.1 | | 1705[A].4 |
| c. WELDING OF REINFORCEMENT | X | | SECTIONS 8.1.7.7.2, 9.3.3.4c, 11.3.3.4b | | 1705[A].4 |
| d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F (4.4° C)) OR HOT WEATHER (TEMPERATURE ABOVE 90° F (32.2° C)) | | X | | ART 1.8C, 1.8D | 1705[A].4 |
| e. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE | X | | | ART. 3.6B | 1705[A].4 |
| f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR TENDON IS IN COMPLIANCE | X | | | ART. 3.5, 3.6C | 1705[A].4 |
| g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS | X ¹ | X ² | | ART. 3.3.B.9, 3.3.F.1.b | 1705[A].4 |
| 5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND / OR PRISMS | | X | | ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4 | 1705[A].4 |

- 1 REQUIRED FOR THE FIRST 5,000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.
2 REQUIRED AFTER THE FIRST 5,000 SQUARE FEET (465 SQUARE METERS) OF ACC MASONRY.

TESTS

CONCRETE

- a. VERIFICATION OF SPECIFIED CONCRETE COMPRESSIVE STRENGTH, f'_c , IN ACCORDANCE WITH ACI 318-14 SECTION 26.12.
- b. VERIFICATION OF SPECIFIED AIR CONTENT, SLUMP, AND TEMPERATURE IN ACCORDANCE WITH ASTM C 172, ASTM C 231, ASTM C 143, ASTM C 1064.
- c. VERIFICATION OF SPECIFIED SHOTCRETE COMPRESSIVE STRENGTH, f'_c , IN ACCORDANCE WITH CBC 1908.10 AT LEAST ONCE PER SHIFT, BUT NOT LESS THAN 50 CUBIC YARDS OF SHOTCRETE.

GEOTECHNICAL

- a. VERIFICATION OF SPECIFIED FILL CLASSIFICATION MOISTURE CONTENT, AND DENSITY IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

MASONRY

- a. VERIFICATION OF SLUMP OF FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF CONSOLIDATING GROUT.
- b. VERIFICATION OF FM AND FAAC IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE. VERIFY SPECIFIED COMPRESSIVE STRENGTH, FM, OF MASONRY EVERY 5,000 SQUARE FEET DURING CONSTRUCTION.

SHEET #

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MONROE, WA 98272

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\$00.07

| | | | | | | | | | |
|---------|--|------------|------------------------------|-----------|-----------------------------|---------|---------------------------|--------|---------------------------|
| & | AND | d | PENNYWEIGHT (NAILS) | GA | GAGE, GAUGE | MATL | MATERIAL | SCHED | SCHEDULE |
| @ | AT | (d) | DROPPED BEAM | GALV | GALVANIZED | MAX | MAXIMUM | SECT | SECTION |
| AB | ANCHOR BOLT | D-B | DESIGN-BUILD | GB, GR BM | GRADE BEAM | MECH | MECHANICAL | SHT | SHEET |
| ABV | ABOVE | DBA | DEFORMED BAR ANCHOR | GC | GENERAL CONTRACTOR | MEZZ | MEZZANINE | SHTHG | SHEATHING |
| ACI | AMERICAN CONCRETE INSTITUTE | DBL | DOUBLE | GEN | GENERAL | MF | MOMENT FRAME | SIM | SIMILAR |
| ADDL | ADDITIONAL | DEG, ° | DEGREE | GL | GLUE LAMINATED WOOD | MFR | MANUFACTURER | SJI | STEEL JOIST INSTITUTE |
| ADJ | ADJACENT | DEMO | DEMOLISH, DEMOLITION | GLB | GLUE LAMINATED BEAM | MIN | MINIMUM | SQG | SLAB ON GRADE |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION | DF | DOUGLAS FIR | GRND | GROUND | MISC | MISCELLANEOUS | SPC | SPACE, SPACING |
| AISI | AMERICAN IRON AND STEEL INSTITUTE | DIA | DIAMETER | GSN | GENERAL STRUCTURAL NOTES | MPH | MILES PER HOUR | SPEC | SPECIFICATION |
| ALT | ALTERNATE | DIAG | DIAGONAL | GYP | GYPSPUM | MTL | METAL | SQ | SQUARE |
| ANCH | ANCHOR | DIAPH | DIAPHRAGM | GWB | GYPSPUM WALL BOARD | | | SST | STAINLESS STEEL |
| APA | AMERICAN PLYWOOD ASSOCIATION | DIM | DIMENSION | | | NF | NEAR FACE | SSH | SHORT SLOTTED HOLE |
| APPROX | APPROXIMATE | DIST | DISTANCE | HD | HOLDOWN | NIC | NOT IN CONTRACT | STAG | STAGGER, STAGGERED |
| AR | ANCHOR ROD | DL | DEAD LOAD | HDR | HEADER | NLG | NAILING | STD | STANDARD |
| ARCH | ARCHITECT, ARCHITECTURAL | DN | DOWN | HGR | HANGER | NOM | NOMINAL | STIFF | STIFFENER |
| ASCE | AMERICAN SOCIETY OF CIVIL ENGINEERS | DO | DITTO | HK | HOOK | NO., # | NUMBER | STIR | STIRRUP |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | DP | DEEP | HORIZ | HORIZONTAL | N-S | NORTH-SOUTH | STL | STEEL |
| AWS | AMERICAN WELDING SOCIETY | DWG | DRAWING | HPT | HIGH POINT | NS | NEAR SIDE | STRUCT | STRUCTURAL |
| | | DWL | DOWEL | HSS | HOLLOW STRUCTURAL SECTION | NTS | NOT TO SCALE | SW | SHEAR WALL |
| | | DWLS | DOWELS | HT | HEIGHT | | | SYMM | SYMMETRICAL |
| B/ | BOTTOM OF | | | | | OC | ON CENTER | | |
| BC | BOTTOM CHORD | | | | | OD | OUTSIDE DIAMETER | T/ | TOP OF |
| BF | BRACED FRAME | (E), EXIST | EXISTING | IBC | INTERNATIONAL BUILDING CODE | OD | OUTSIDE DIAMETER | T&B | TOP AND BOTTOM |
| BLDG | BUILDING | EA | EACH | ID | INSIDE DIAMETER | O.F. | OUTSIDE FACE | T&G | TONGUE AND GROOVE |
| BLKG | BLOCKING | EE | EACH END | I.F. | INSIDE FACE | OPNG | OPENING | TBD | TO BE DETERMINED |
| BM | BEAM | EF | EACH FACE | IJ | ISOLATION JOINT | OPP | OPPOSITE | TC | TOP CHORD |
| BMS | BEAMS | EJ | EXPANSION JOINT | IN, " | INCH | OSB | ORIENTED STRAND LUMBER | TEMP | TEMPERATURE |
| BOF | BOTTOM OF FOOTING | EL | ELEVATION | INCL | INCLUDE | OSH | OVERSIZED HOLE | THK | THICK, THICKNESS |
| BOT | BOTTOM | ELEC | ELECTRICAL | INFO | INFORMATION | OWJ | OPEN WEB JOIST | THP | TENDON HIGH POINT |
| B PL | BASE PLATE | ELEV | ELEVATOR | INT | INTERIOR | | | THRU | THROUGH |
| BRG | BEARING | EMBED | EMBEDMENT | JST | JOIST | PCF | PRECAST CONCRETE | TN | TOE NAIL |
| BTWN | BETWEEN | ENGR | ENGINEER | JSTS | JOISTS | PEN | POUNDS PER CUBIC FOOT | TOC | TOP OF CONCRETE |
| BU | BUILT-UP | EQ | EQUAL | JT | JOINT | PERP | PERPENDICULAR | TOF | TOP OF FOOTING |
| | | EQUIP | EQUIPMENT | | | PL | PLATE | TOS | TOP OF STEEL |
| C | CHANNEL | EQUIV | EQUIVALENT | | | PLCS | PLACES | TOW | TOP OF WALL |
| CANTIL | CANTILEVER | ES | EACH SIDE | K | KIP (1,000 LBS) | PLF | POUNDS PER LINEAR FOOT | TR | THREADED ROD |
| CDF | CONTROL DENSITY FILL | ETC | ET CETERA | KSF | KIPS PER SQUARE FOOT | PLS | PLATES | TRANSV | TRANSVERSE |
| CG | CENTER OF GRAVITY | E-W | EAST-WEST | KSI | KIPS PER SQUARE INCH | PLWD | PLYWOOD | TYP | TYPICAL |
| CIP | CAST-IN-PLACE | EW | EACH WAY | | | PNL | PANEL | TWS | THREADED WELDED STUD |
| CJ | CONTROL JOINT | EXP | EXPANSION | L | ANGLE | PP, PJP | PARTIAL JOINT PENETRATION | | |
| CJP, CP | COMPLETE JOINT PENETRATION | EXT | EXTERIOR | LBS, # | POUNDS | PRCST | PRECAST | UNO | UNLESS NOTED OTHERWISE |
| CL | CENTERLINE | EXT GR | EXTERIOR GRADE | LF | LINEAL FOOT | PREFAB | PREFABRICATED | | |
| CLDG | CLADDING | | | LL | LIVE LOAD | PSF | POUNDS PER SQUARE FOOT | VERT | VERTICAL |
| CLR | CLEAR | FD | FLOOR DRAIN | LLBB | LONG LEGS BACK TO BACK | PSI | POUNDS PER SQUARE INCH | | |
| CMU | CONCRETE MASONRY UNIT | FDN | FOUNDATION | LLH | LONG LEG HORIZONTAL | PSL | PARALLEL STRAND LUMBER | W/ | WITH |
| COL | COLUMN | FEMA | FEDERAL EMERGENCY MANAGEMENT | LLV | LONG LEG VERTICAL | P-T | PRESSURE TREATED | W | WIDTH |
| COLS | COLUMNS | AGENCY | | LOC | LOCATION | PT | POST-TENSIONED | WD | WOOD |
| CONC | CONCRETE | FF | FINISH FLOOR | LOCS | LOCATIONS | PVC | POLYVINYL CHLORIDE | WF | WIDE FLANGE |
| CONN | CONNECT, CONNECTION | FIN | FINISH | LONGIT | LONGITUDINAL | | | WHS | WELDED HEADED STUD |
| CONST | CONSTRUCTION | FLR | FLOOR | LPT | LOW POINT | R | RADIUS | W/O | WITHOUT |
| CONT | CONTINUE, CONTINUOUS | FLG | FLANGE | LSH | LONG SLOTTED HOLE | RB | RIM BOARD | WP | WORKING POINT |
| CONTR | CONTRACTOR | FOS | FACE OF STUD | LSL | LAMINATED STRAND LUMBER | RD | ROOF DRAIN | WT | WEIGHT |
| COORD | COORDINATE | FRT | FIRE RETARDANT TREATED | LVL | LAMINATED VENEER LUMBER | REBAR | REINFORCING STEEL BARS | WWR | WELDED WIRE REINFORCEMENT |
| CRSI | CONCRETE REINFORCING STEEL INSTITUTE | FS | FAR SIDE | | | REF | REFERENCE | | |
| CSJ | CONSTRUCTION JOINT | FT, ' | FEET | | | REINF | REINFORCE, REINFORCING | | |
| CTR | CENTER, CENTERED | FTG | FOOTING | | | REM | REMAINDER | | |
| CU FT | CUBIC FEET | FTGS | FOOTINGS | | | REQD | REQUIRED | | |
| CU YD | CUBIC YARD | | | | | REV | REVISION | | |

| GENERAL SYMBOLS | | CONCRETE SYMBOLS | | WOOD SYMBOLS | | DETAIL IDENTIFIERS | |
|-----------------|--------------------------|------------------|--|--------------|--|--------------------|--|
| | GRID BUBBLE | | FOOTING TYPE FOOTING ELEVATION PER PLAN | | POST OR COLUMN - IN SECTION | | |
| | GRID LINE | | CONCRETE WALL IN SECTION | | POST OR COLUMN BELOW THIS LEVEL | | |
| | SOIL | | CONCRETE CURB / PARTIAL HEIGHT WALL | | BEAMS, GIRDERS OR HEADERS | | |
| | GRAVEL | | CONCRETE WALL BELOW THIS LEVEL | | INDICATES BEAM, GIRDER OR HEADER CONTINUOUS OVER SUPPORT | | |
| | OPENING IN FLOOR OR WALL | | CONCRETE COLUMN IN SECTION | | INDICATES BEAM, GIRDER OR HEADER NOT CONTINUOUS OVER SUPPORT | | |
| | | | | | DIRECTION OF JOISTS OR TRUSSES | | |
| | | | | | HEADER BELOW THIS LEVEL | | |
| | | | | | BEAM MARK/SIZE | | |
| | | | | | WOOD POST | | |
| | | | | | SHEAR WALL MARK | | |
| | | | | | WOOD STRAP MARK | | |
| | | | | | HOLDOWN MARK | | |
| | | | | | BEAM / COLUMN SPLICE | | |



SPFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

PROJECT # 262023.015

BID SET

ISSUE DATE 3/22/2024

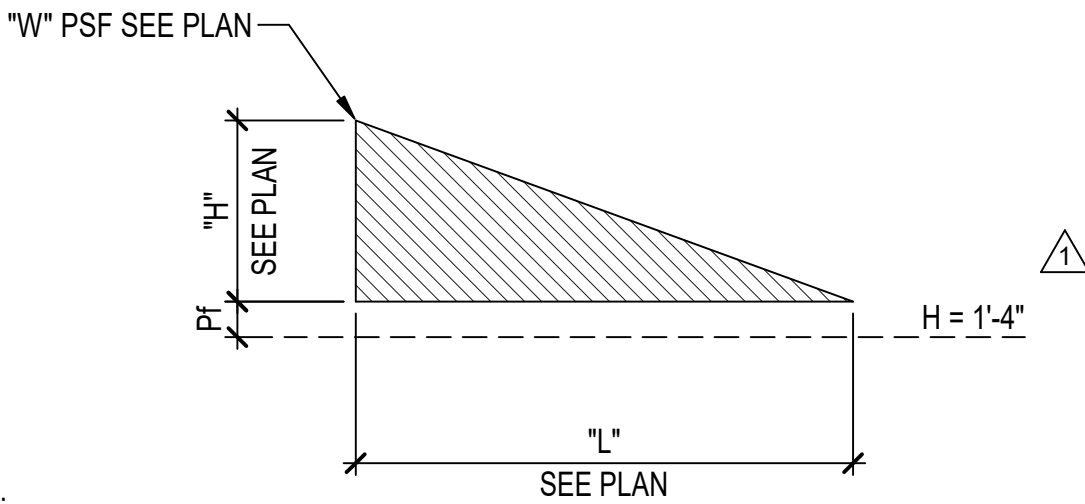
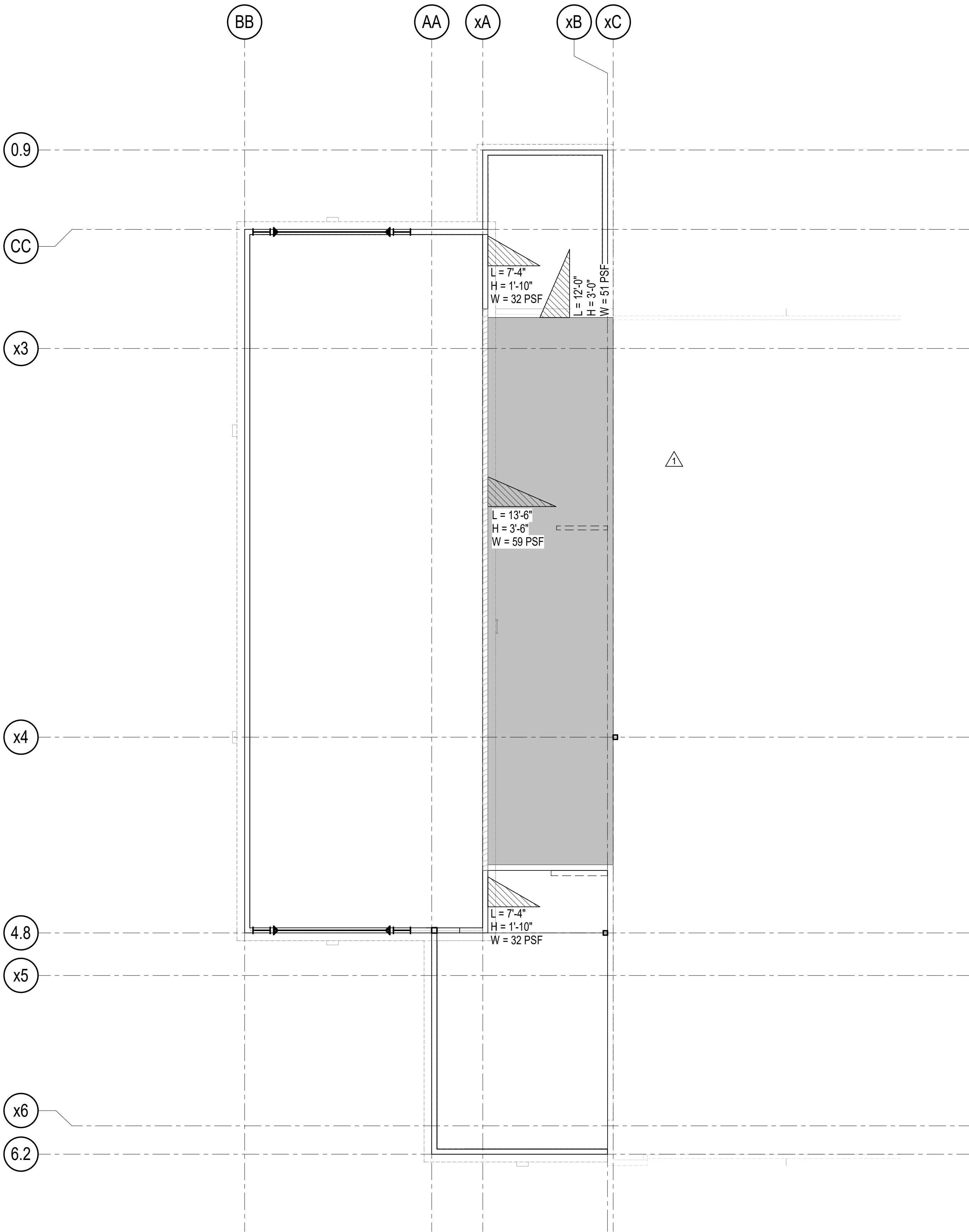
| REVISION SCHEDULE | | |
|-------------------|-------------------|----------|
| 1 | PERMIT REVISION 1 | 12/20/23 |
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| | | |
| | | |
| | | |

AHJ APPROVAL STAMP

ROOF SNOW DRIFT
LOADING

SHEET #

S00.08



- NOTE:
- ROOF FRAMING SHALL BE DESIGNED FOR THE WORST-CASE EFFECTS RESULTING FROM THE FOLLOWING CASES:
CASE 1: DRIFTS APPLIED IN ADDITION TO A FLAT ROOF SNOW LOAD OF $P_f = 23$ PSF.
CASE 2: UNIFORM SNOW LOAD OF 25 PSF.

CASE 1: SNOW DRIFT DIAGRAM ($P_f = 23$ PSF)

1 ROOF SNOW DRIFT LOAD PLAN
1/8" = 1'-0"
0 4 8 16
N



SPFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

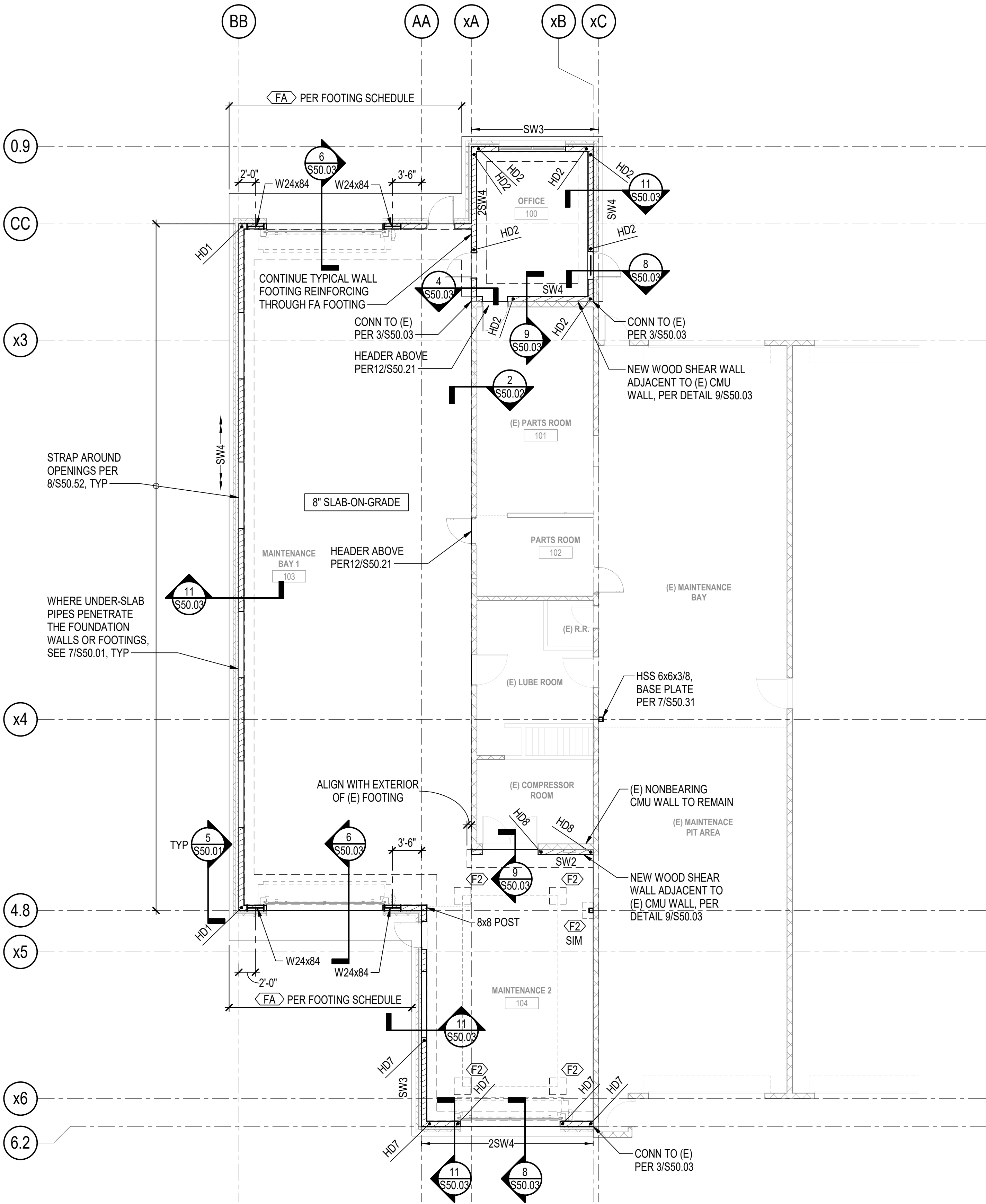
163 VILLAGE COURT
MONROE, WA 98272

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| PROJECT # | 262023.015 |
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| ISSUE DATE | 3/22/2024 |
| REVISION SCHEDULE | |
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| AHJ APPROVAL STAMP | |

FOUNDATION PLAN

SHEET #

S21.01



1 FOUNDATION PLAN

1/8" = 1'-0"

0 6 12

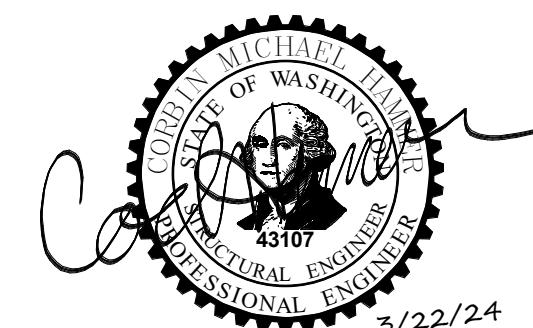
N

| LEGEND | |
|--------|--|
| | SHEAR WALL THIS LEVEL PER SCHEDULE |
| | 2-SIDED SHEAR WALL THIS LEVEL PER SCHEDULE |
| | EXISTING MASONRY WALL THIS LEVEL |
| | HOLDOWN PER SCHEDULE 2/S50.58 |

- FOUNDATION PLAN NOTES:
- SEE ARCHITECTURAL DRAWINGS FOR SLAB DEPRESSION AND SLOPE REQUIREMENTS. SEE 11/S50.01.
 - SLAB-ON-GRADE THIS PLAN SHALL BE 8" THICK REINFORCED CONCRETE. WITH #5 @ 12" EACH WAY AT MID DEPTH OF THE SLAB. LAP REINFORCING PER 8/S50.01.
 - PROVIDE CONSTRUCTION / CONTROL JOINTS IN SLAB ON GRADE TO DIVIDE SLAB INTO RECTANGULAR AREAS 144 SQUARE FEET OR LESS. AREAS SHALL BE APPROXIMATELY SQUARE AND HAVE NO ACUTE ANGLES. JOINT LOCATIONS MUST BE APPROVED BY THE ARCHITECT. SEE 12/S50.02.
 - TOPS OF ALL FOOTINGS SHOWN IN THIS PLAN SHALL BE AT ELEVATION -1'-6". UNO. OVER EXCAVATE AND PLACE SUITABLE COMPACTED FILL AS DIRECTED BY OWNER APPOINTED GEOTECHNICAL ENGINEER WHERE REQUIRED. WHERE INDICATED, FOOTINGS SHALL BEAR ON SOILS REINFORCED USING AGGREGATE PIERS. AGGREGATE PIERS ARE NOT REQUIRED BELOW ANY SLABS-ON-GRADE. SEE GENERAL STRUCTURAL NOTES AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH FINAL SITE GRADES AND MAINTAIN MINIMUM DEPTH OF FOOTINGS SHOWN ON THE DRAWINGS.
 - SEE ARCHITECTURAL / MECHANICAL / CIVIL / UTILITIES DRAWINGS FOR UNDERSLAB PIPING. COORDINATE FOUNDATION DEPTHS AND PIPING IN ACCORDANCE WITH 7/S50.01.
 - SEE 8/S50.58 FOR SHEAR WALL SCHEDULE AND SHEAR WALL FRAMING REQUIREMENTS. SHEAR WALLS CORNERS AND INTERSECTIONS SHALL BE FRAMED AND NAILED PER 4/S50.59, UNLESS NOTED OTHERWISE. SEE 2/S50.58 FOR HOLDOWN SCHEDULE AND FRAMING REQUIREMENTS.
 - EXTERIOR STUD WALLS SHALL BE 2x8 LVL @ 16" OC UNLESS NOTED OTHERWISE. INTERIOR STUD WALLS SHALL BE 2x6 @ 16" OC UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL FOR WALL TYPES. SEE S50.54, S50.58 AND S50.59 FOR TYPICAL WALL FRAMING DETAILS AND ALLOWABLE PENETRATIONS THRU WALL STUDS AND PLATES.
 - POST OR JAMB STUDS SUPPORTING BEAMS ABOVE SHALL BE (2) STUDS MIN, UNO.
 - AT PLYWOOD SHEAR WALLS, CONTRACTOR SHALL EXTEND SHEATHING TO SCHIEVE FULL COVERAGE OF ENTIRE WALL TO AVOID CONFLICT BETWEEN VARYING PLYWOOD AND GWB THICKNESS.
 - FRAME OPENINGS IN STRUCTURAL WALLS PER 8/S50.53 UNLESS NOTED OTHERWISE. HEADERS IN EXTERIOR WALLS SHALL BE (4) 2X8 AND DROPPED BELOW STUD WALL TOP PLATE PER 7/S50.53 UNLESS NOTED OTHERWISE. HEADERS IN INTERIOR WALLS SHALL BE (3) 2X8 AND DROPPED BELOW STUD WALL TOP PLATE UNLESS NOTED OTHERWISE.

- RENOVATION PLAN NOTES:
- EXISTING FOOTING DEPTHS SHOWN ON PLAN OR IN DETAILS ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING SLAB AND FOOTING ELEVATIONS AND COORDINATE WITH FINAL SITE GRADES TO MAINTAIN MINIMUM DEPTH OF FOOTINGS SHOWN ON THE DRAWINGS. WHERE NEW FOOTINGS ABUT EXISTING, BOTTOM OF FOOTING SHALL MATCH BOTTOM OF EXISTING. UNO. OVER EXCAVATE AND PLACE SUITABLE COMPACTED FILL AS DIRECTED BY OWNER APPOINTED GEOTECHNICAL ENGINEER WHERE REQUIRED. SEE GENERAL STRUCTURAL NOTES AND SPECIFICATIONS.
 - CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, BOTH VERTICAL AND LATERAL, FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED AND CONCRETE HAS REACHED DESIGN STRENGTH IN ACCORDANCE WITH THE DRAWINGS. EXTENTS OF SHORING REQUIRED SHALL BE DETERMINED BY THE CONTRACTOR.
 - ALL DIMENSIONS, ELEVATIONS, AND LOCATIONS OF EXISTING STRUCTURAL COMPONENTS ARE BASED ON INFORMATION GATHERED FROM ORIGINAL DRAWINGS OR CURSORY FIELD MEASUREMENTS AND ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL CONDITIONS PRIOR TO COMMENCING ANY WORK. NOTIFY ENGINEER WHERE CONDITIONS VARY FROM THOSE SHOWN.
 - WHERE NEW FOUNDATIONS INTERSECT EXISTING FOUNDATIONS, CONNECT TOGETHER WITH #4 x 2'-6" DOWELS LAPPED WITH HORIZONTAL FOOTING AND STEM WALL REINFORCING UNLESS NOTED OTHERWISE. INSTALL DOWELS TO EXISTING FOUNDATIONS IN EPOXY GROUTED HOLES, EMBED 5".

| FOOTING SCHEDULE | | | | | | |
|------------------|-------|----------|-------|---------------------------------|---------------------------------|--|
| MARK | WIDTH | LENGTH | DEPTH | TOP REINFORCING | BOTTOM REINFORCING | REMARKS |
| FA | 8'-0" | AS SHOWN | 4'-0" | (9) #9 LONGIT & #7 @ 12" OC LAT | (9) #9 LONGIT & #7 @ 12" OC LAT | SEE DETAIL 10/S50.31 |
| F2 | 2'-0" | 2'-0" | 1'-0" | - | #5 @ 9" EW | ALIGN UNDER LIFT COLUMNS. SEE DETAIL 10/S50.03 |



| | |
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| PROJECT # | 262023.015 |
| BID SET | |
| ISSUE DATE | 3/22/2024 |

[illegible]

ROOF FRAMING PLAN

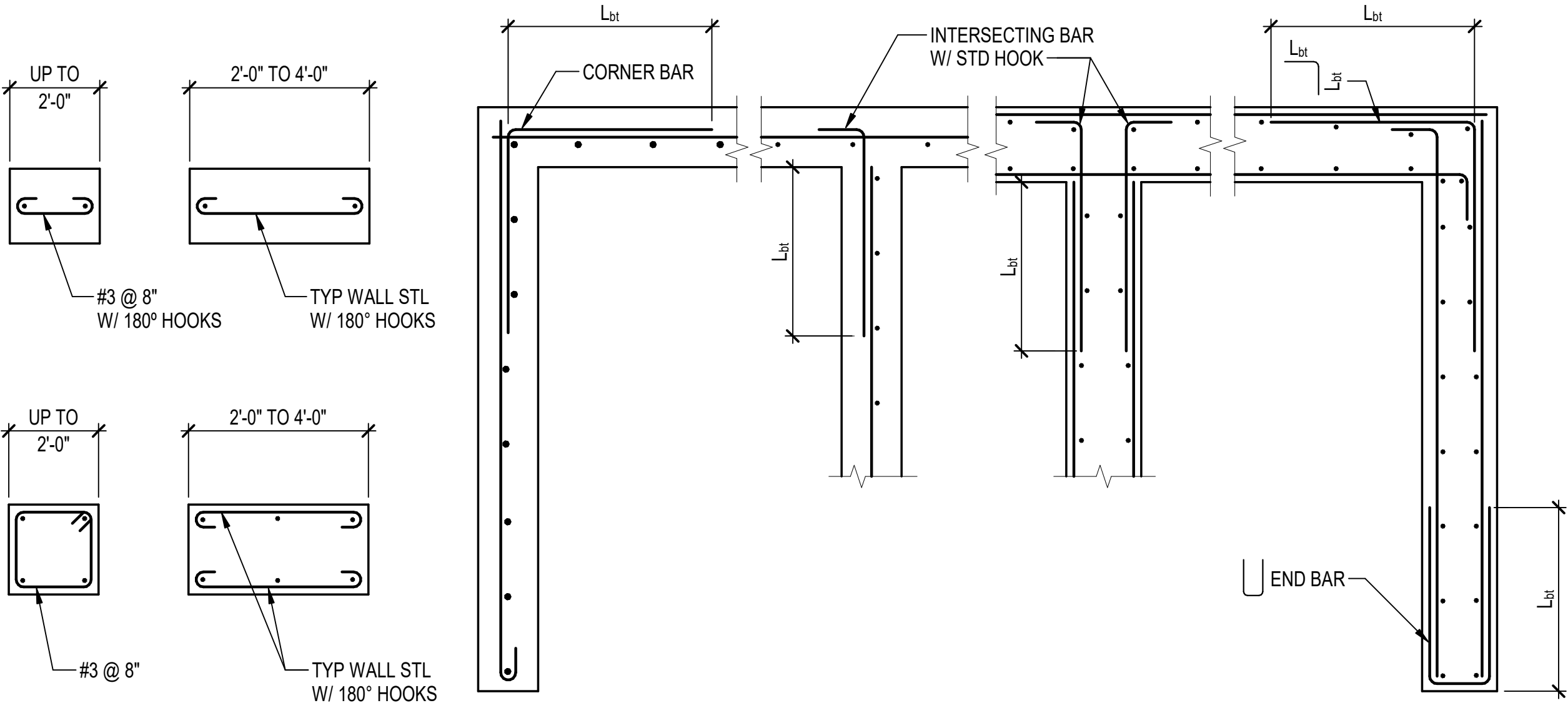
S21.02



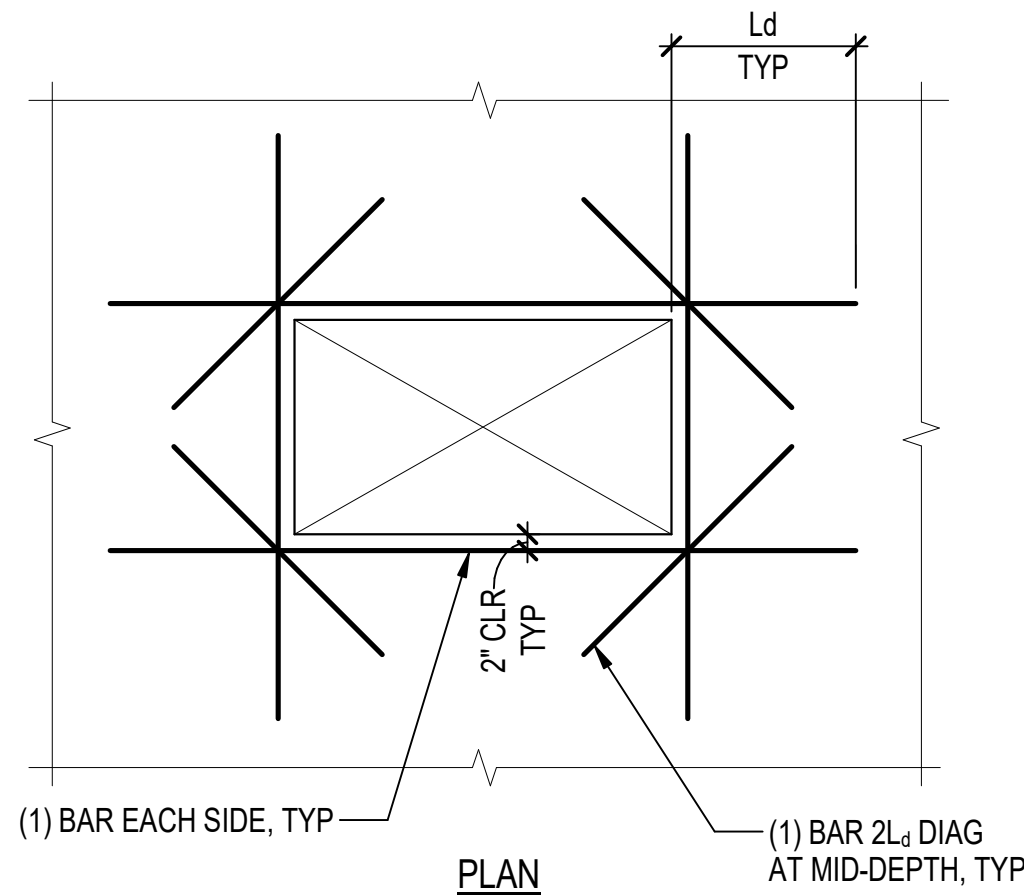
 STRUCTURAL WALL BELOW THIS LEVEL
 SPAN DIRECTION OF FRAMING MEMBERS
 LIMIT OF SPAN
 MOMENT CONNECTION PER 1/S50.31
 RESHEATH AND BLOCK EXISTING ROOF PER NOTE 1

1. ROOF SHEATHING SHALL BE 5/8" PLYWOOD (PANEL SPAN RATING 40/20) PROVIDE 2x FLAT BLOCKING AT ALL UNFRAMED PANEL EDGES, 3x FLAT BLOCKING WHERE ROOF FRAMING IS EXPOSED TO VIEW (BLOCKED DIAPHRAGMS), NAIL SHEATHING AT ALL PANEL EDGES, DIAPHRAGM BOUNDARIES, AND EXTERIOR SHEAR WALLS BELOW W/ 10d @ 6" OC. NAIL SHEATHING AT ALL STRUTS, BLOCKING, STRUT BLOCKING AND INTERIOR SHEAR WALLS BELOW WITH 10d # 4" OC STAGGERED. NAIL SHEATHING TO ALL INTERMEDIATE FRAMING W/ 10d @ 12" OC. SEE 2/S50.53 FOR STAGGERED SHEATHING LAYOUT.
2. TRUSS MANUFACTURER SHALL PROVIDE ALL TEMPORARY AND PERMANENT TRUSS CHORD BRIDGING AND BRACING AND RELATED CONNECTION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL TRUSS CONFIGURATIONS. REFER TO GENERAL STRUCTURAL NOTES FOR OTHER REQUIREMENTS. MATCH EXISTING ROOF SLOPE. COORDINATE WITH ARCHITECT. TRUSSES SHALL BE DESIGNED FOR POINT LOAD FOR FALL ARREST ANCHOR PER 11/S50.52 SIM. SEE ARCHITECTURAL FOR REQUIRED LOCATIONS.
3. FRAME OPENINGS IN STRUCTURAL WALLS PER 8/S50.53 UNLESS NOTED OTHERWISE. HEADERS IN EXTERIOR WALLS SHALL BE (4) 2x8 AND DROPPED BELOW STUD WALL TOP PLATE PER 7/S50.53 UNLESS NOTED OTHERWISE. HEADERS IN INTERIOR WALLS SHALL BE (3) 2x8 AND DROPPED BELOW STUD WALL TOP PLATE UNLESS NOTED OTHERWISE.
4. STRUCTURAL DRAWINGS DO NOT SHOW ALL LOCATIONS OF MECHANICAL UNITS, PIPING, OR OTHER EQUIPMENT (REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS). THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL WEIGHTS AND LOCATIONS OF THE UNITS AND PIPE RUNS (INCLUDING SPECIFIC SUPPORT LOADS AND SUPPORT CONFIGURATION) WITH THE WOOD JOIST AND TRUSS MANUFACTURER, MECHANICAL / ELECTRICAL / PLUMBING / FIRE PROTECTION CONTRACTORS AND STRUCTURAL ENGINEER PRIOR TO JOIST OR TRUSS FABRICATION. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS. SEE DETAILS 11 AND 12/S50.53.
5. SEE DETAIL 11/S50.52 FOR FALL ARREST ANCHOR SUPPORT AND REQUIREMENTS. SEE ARCHITECTURAL FOR REQUIRED LOCATIONS.

| BEAM SCHEDULE | |
|---------------|--------------------|
| MARK | BEAM |
| LVL | LVL 3 1/2 x 11 7/8 |
| GL518 | GL 5 1/8 x 18 |
| GL624 | GL 6 3/4 x 24 |



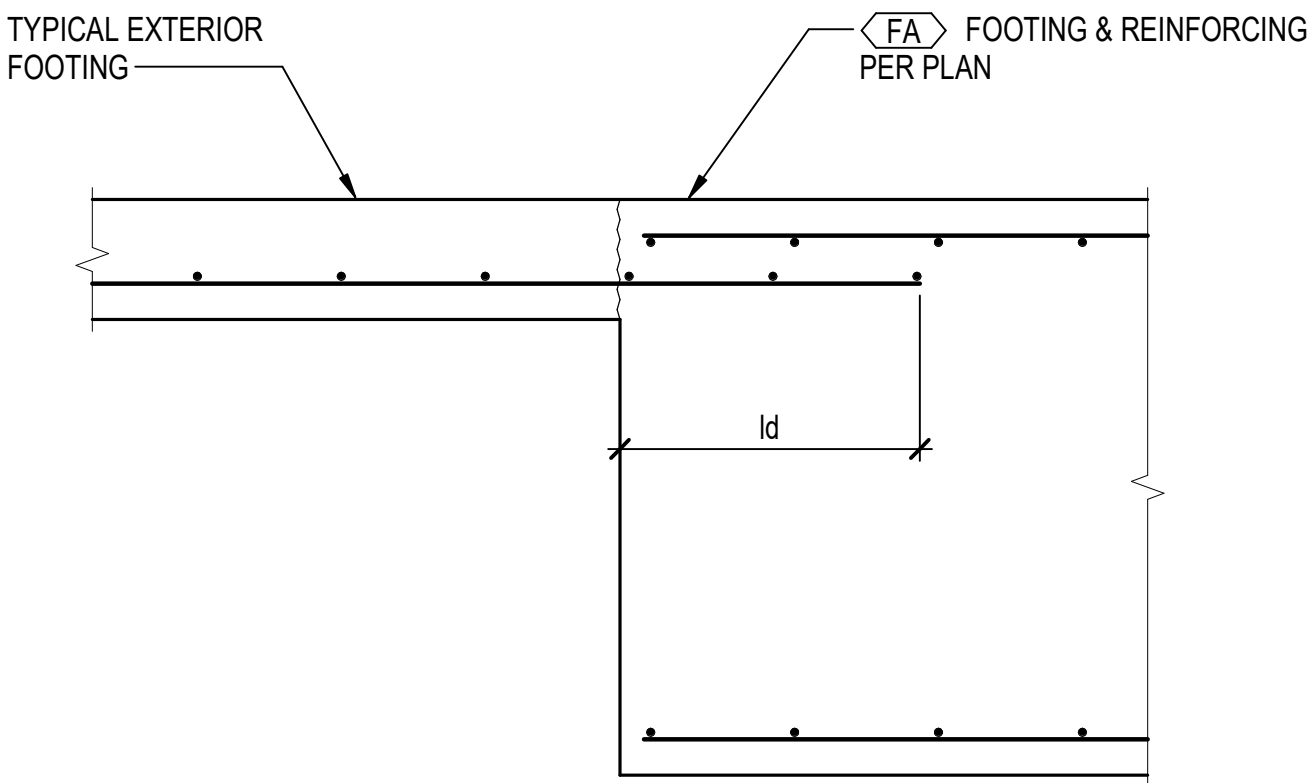
TYPICAL CONCRETE WALL PLAN DETAILS
NTS 2



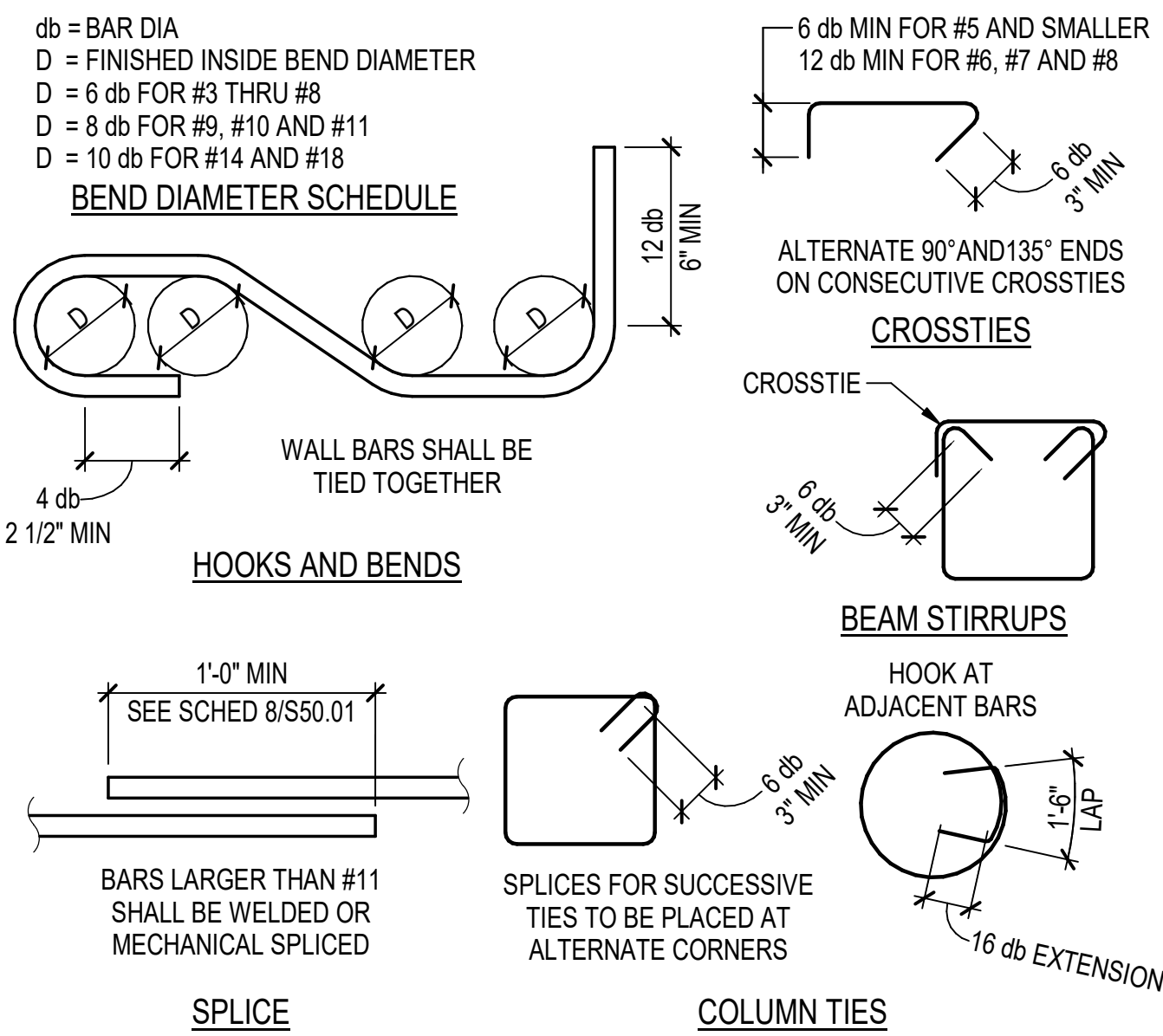
- NOTES:
- BAR SIZE TO MATCH SLAB REINFORCING.
 - IF TWO LAYERS OF STEEL IN SLAB, PROVIDE OPENING REINFORCEMENT FOR EACH LAYER.

TYPICAL
REINFORCING AT SLAB ON GRADE OPENING
NTS 3

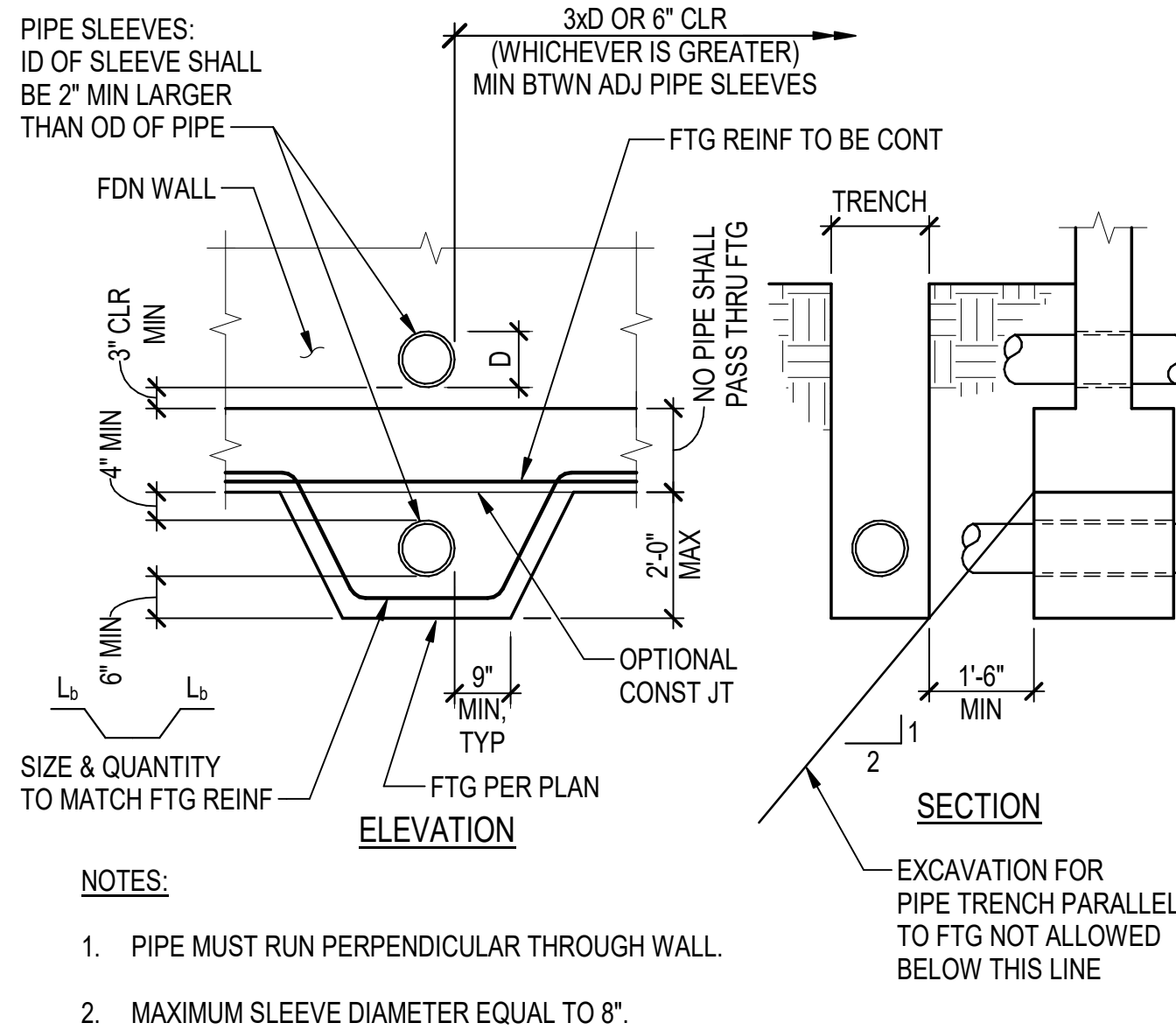
- NOTES:
- STEM WALL ABOVE NOT SHOWN. SEE DETAILS 11/S50.03 & 6/S50.03 FOR ADDITIONAL INFORMATION.
 - CONTINUE TYPICAL EXTERIOR FOOTING REINFORCING INTO FA FOOTING.



STRIP FOOTING AT SPREAD FOOTING
NTS 5



TYPICAL REINFORCING BAR BEND AND LAP DETAILS
NTS 6



- NOTES:
- PIPE MUST RUN PERPENDICULAR THROUGH WALL.
 - MAXIMUM SLEEVE DIAMETER EQUAL TO 8".

TYPICAL PIPE ENCASEMENT AT FOOTING
NTS 7

I MINIMUM STRAIGHT DEVELOPMENT LENGTH (L_d)

$f'_c = 4,000$ to $5,000$ PSI

| BAR SIZE | TOP BARS | OTHER BARS |
|----------|----------|------------|
| # 3 | 19" | 15" |
| # 4 | 25" | 19" |
| # 5 | 31" | 24" |
| # 6 | 37" | 29" |
| # 7 | 54" | 42" |
| # 8 | 62" | 48" |
| # 9 | 70" | 54" |
| # 10 | 79" | 61" |
| # 11 | 87" | 67" |

"TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

IF CLEAR CONCRETE COVER IS LESS THAN 1x THE DIAMETER OF THE BAR OR THE CENTER-TO-CENTER SPACING IS LESS THAN (3) BAR DIAMETERS, THEN VALUES SHALL BE INCREASED BY 50%.

II MINIMUM LAP SPICE LENGTHS (L_s) (CLASS B)

$f'_c = 4,000$ to $5,000$ PSI

| BAR SIZE | TOP BARS | OTHER BARS |
|----------|----------|------------|
| # 3 | 25" | 19" |
| # 4 | 33" | 25" |
| # 5 | 40" | 31" |
| # 6 | 48" | 37" |
| # 7 | 71" | 54" |
| # 8 | 81" | 62" |
| # 9 | 91" | 70" |
| # 10 | 103" | 79" |
| # 11 | 114" | 87" |

"TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

IF CLEAR CONCRETE COVER IS LESS THAN 1x THE DIAMETER OF THE BAR OR THE CENTER-TO-CENTER SPACING IS LESS THAN (3) BAR DIAMETERS, THEN VALUES SHALL BE INCREASED BY 50%.

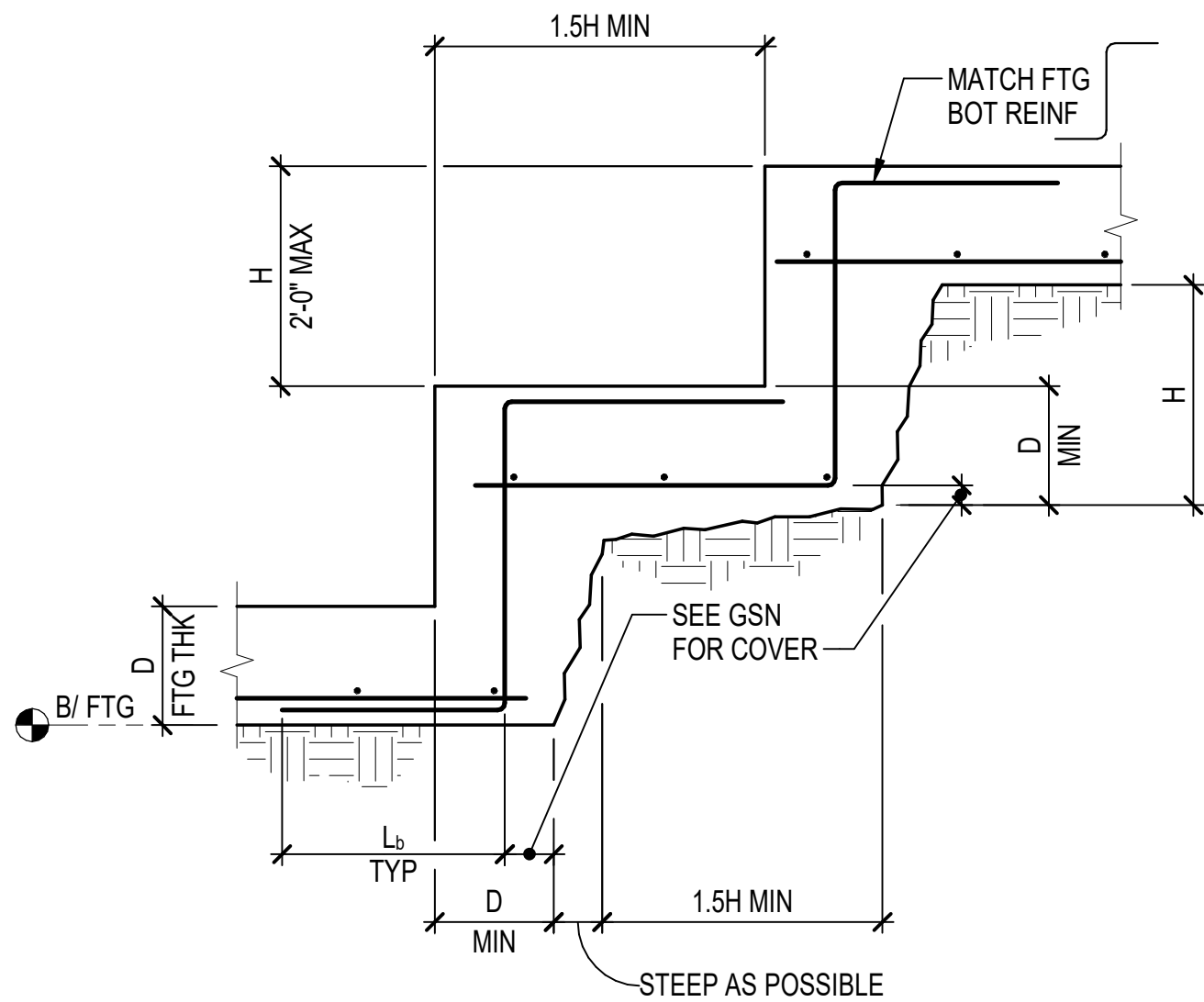
III MINIMUM EMBEDMENT LENGTHS (L_{db}) FOR STANDARD END HOOKS

$f'_c = 4,000$ to $5,000$ PSI

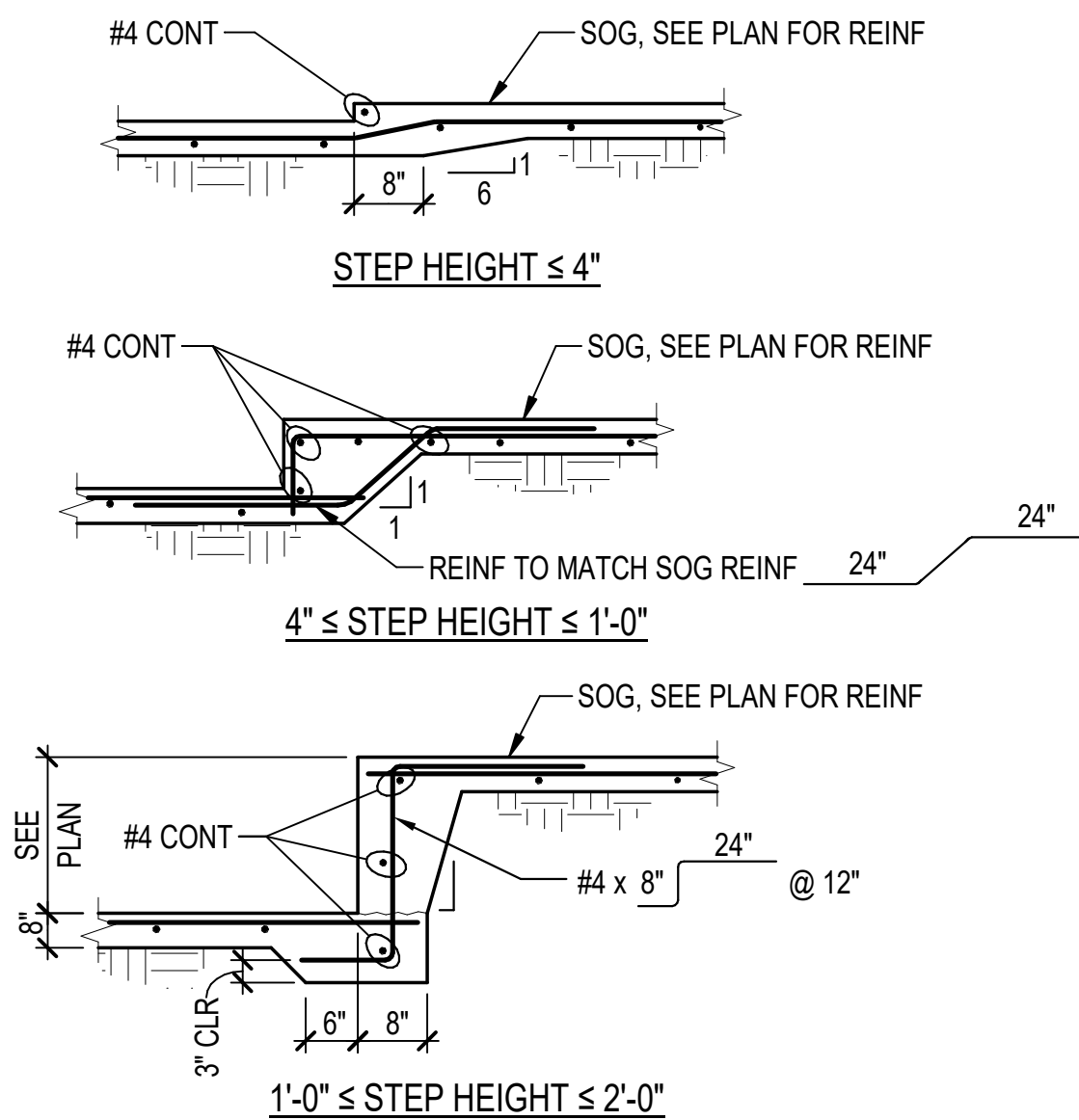
| BAR SIZE | $f'_c = 4,000$ to $5,000$ PSI |
|----------|-------------------------------|
| # 3 | 6" |
| # 4 | 7" |
| # 5 | 9" |
| # 6 | 10" |
| # 7 | 12" |
| # 8 | 14" |
| # 9 | 15" |
| # 10 | 17" |
| # 11 | 19" |

- NOTES:
- SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2 1/2".
 - END COVER FOR 90 DEGREE HOOKS MUST BE EQUAL TO OR GREATER THAN 2".

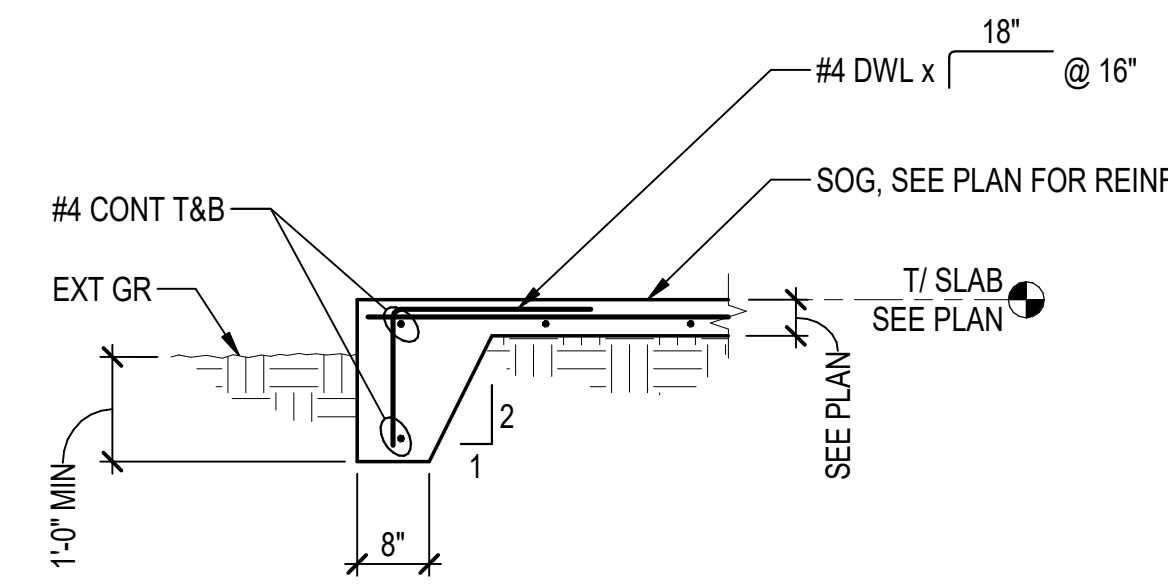
DEVELOPMENT AND SPICE LENGTH TABLES
NTS 8



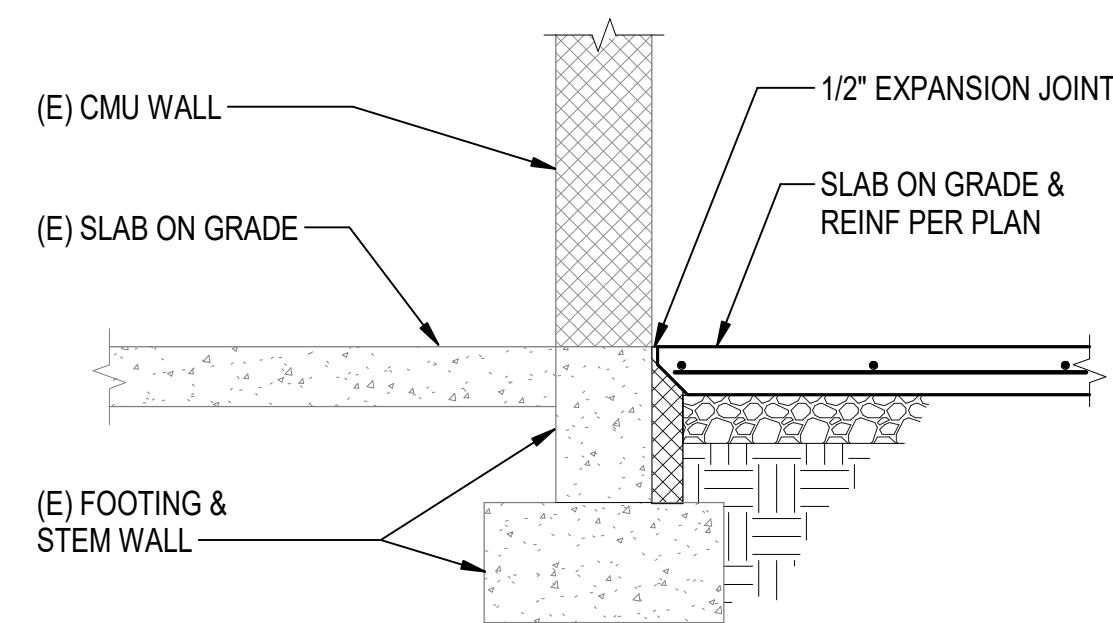
TYPICAL STEPPED FOOTING DETAIL
NTS 10



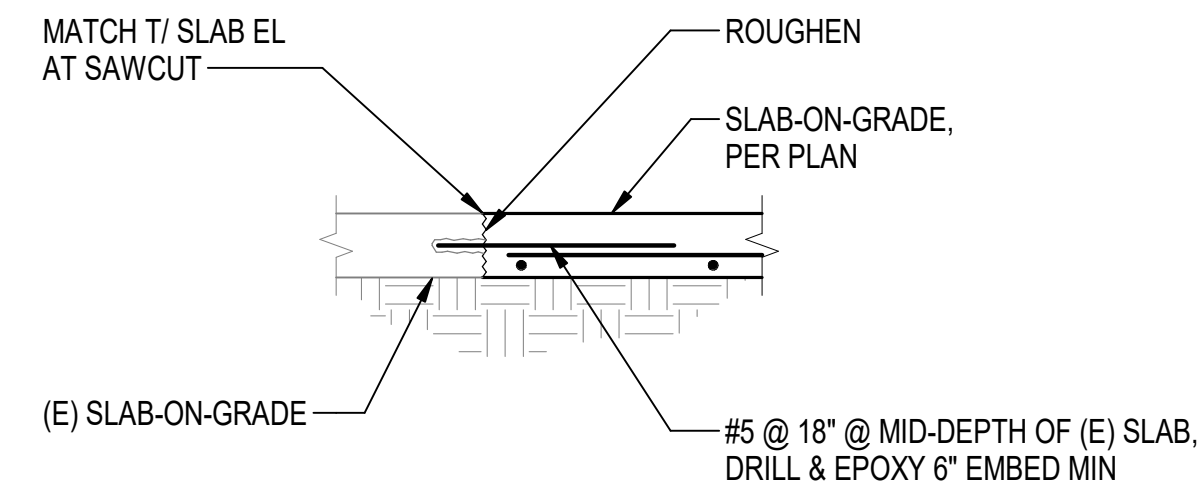
TYPICAL SLAB ON GRADE STEP DETAILS
NTS 11



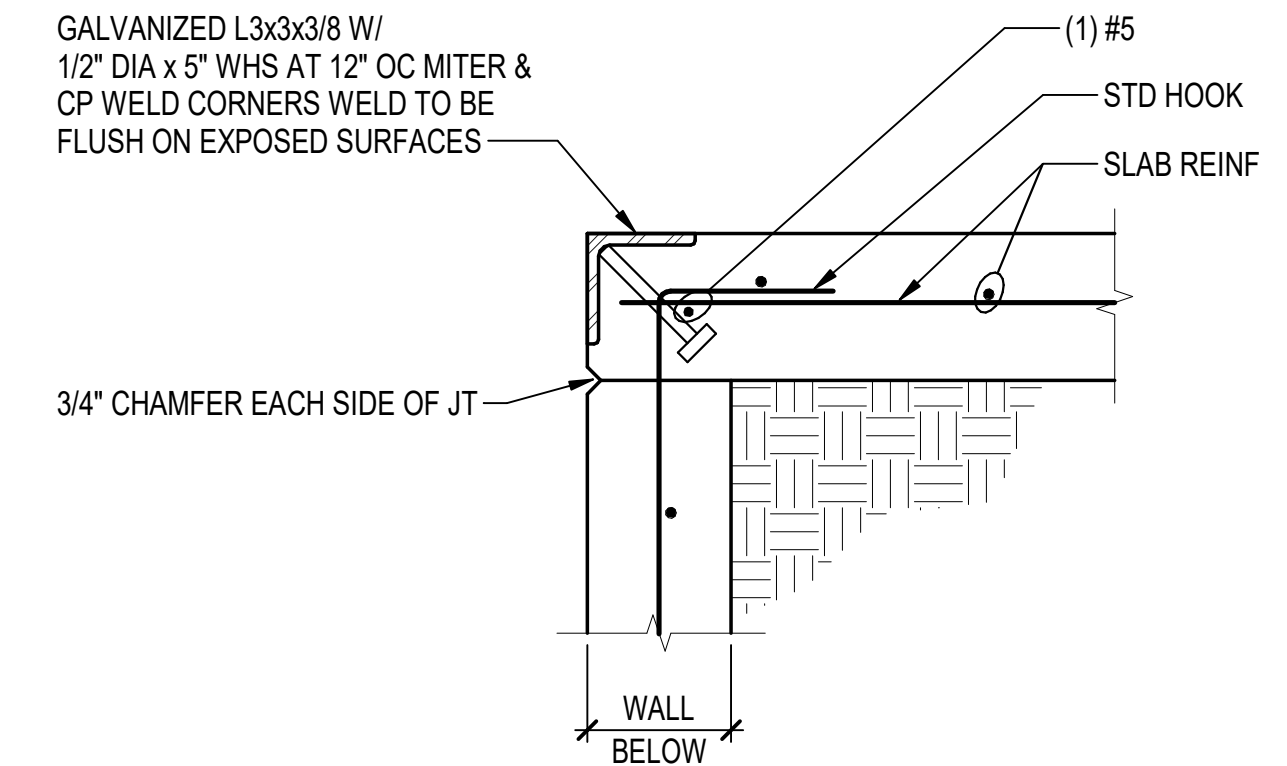
TYPICAL EDGE OF SLAB ON GRADE DETAIL
NTS 12



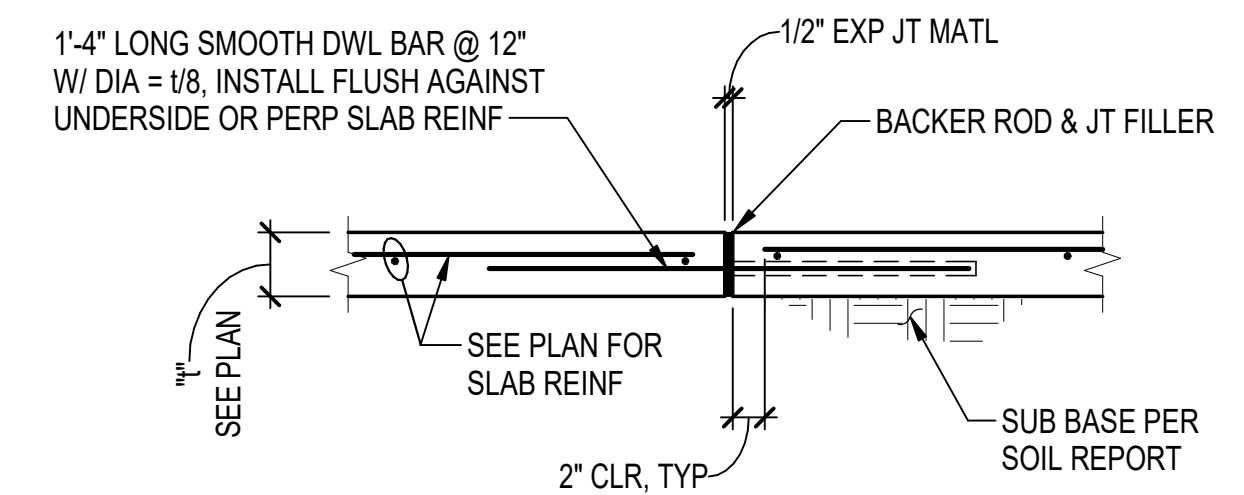
SOG AT EXISTING WALL **2**
NTS



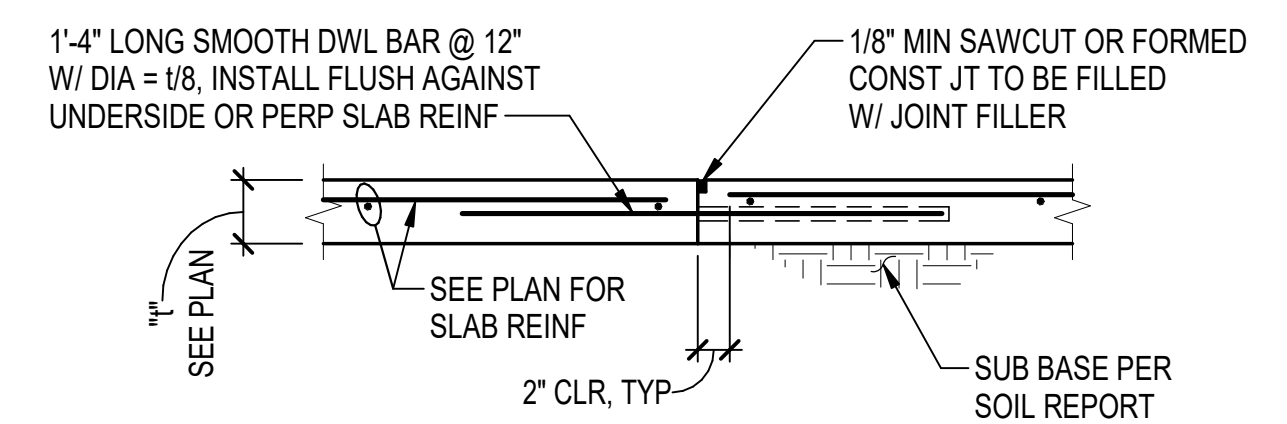
SOG TO EXISTING CONNECTION NTS **3**



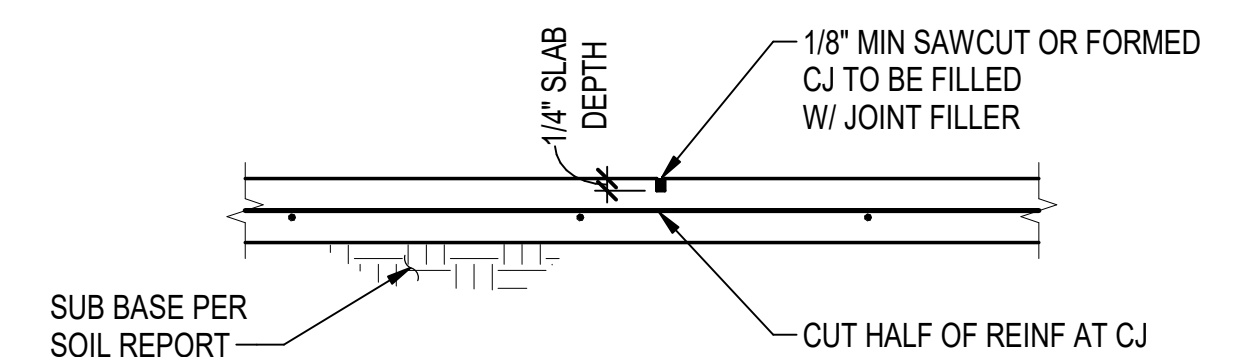
TYPICAL CONCRETE EDGE PROTECTION DETAIL **4**
NTS



EXPANSION JOINT



CONSTRUCTION JOINT

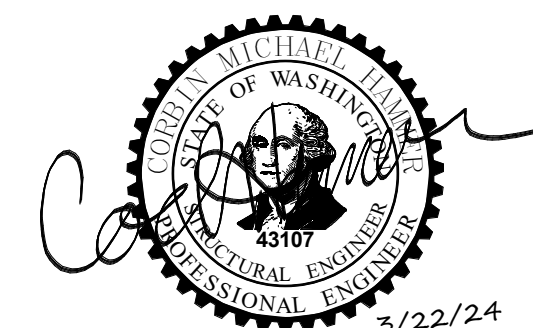


CONTROL JOINT

NOTES:

1. CONSTRUCTION JOINT MAY BE USED AT ANY CONTROL JOINT SHOWN ON PLANS AT CONTRACTORS OPTION.
2. REFER TO PLANS FOR SLAB THICKNESS AND REINFORCING.
3. CONTROL JOINTS TO BE SPACED AT 12'-0" ON CENTER MAXIMUM, EACH WAY. RATIO OF DISTANCE BETWEEN CONTROL JOINTS IN EACH DIRECTION FOR A SLAB PANEL SHALL NOT EXCEED 1.5. CONSTRUCTION JOINTS PER THIS DETAIL SHALL BE CONSIDERED AS CONTROL JOINTS FOR CONTROL JOINT SPACING REQUIREMENTS.

TYPICAL SLAB ON GRADE JOINT DETAILS 12
NTS[illegible]



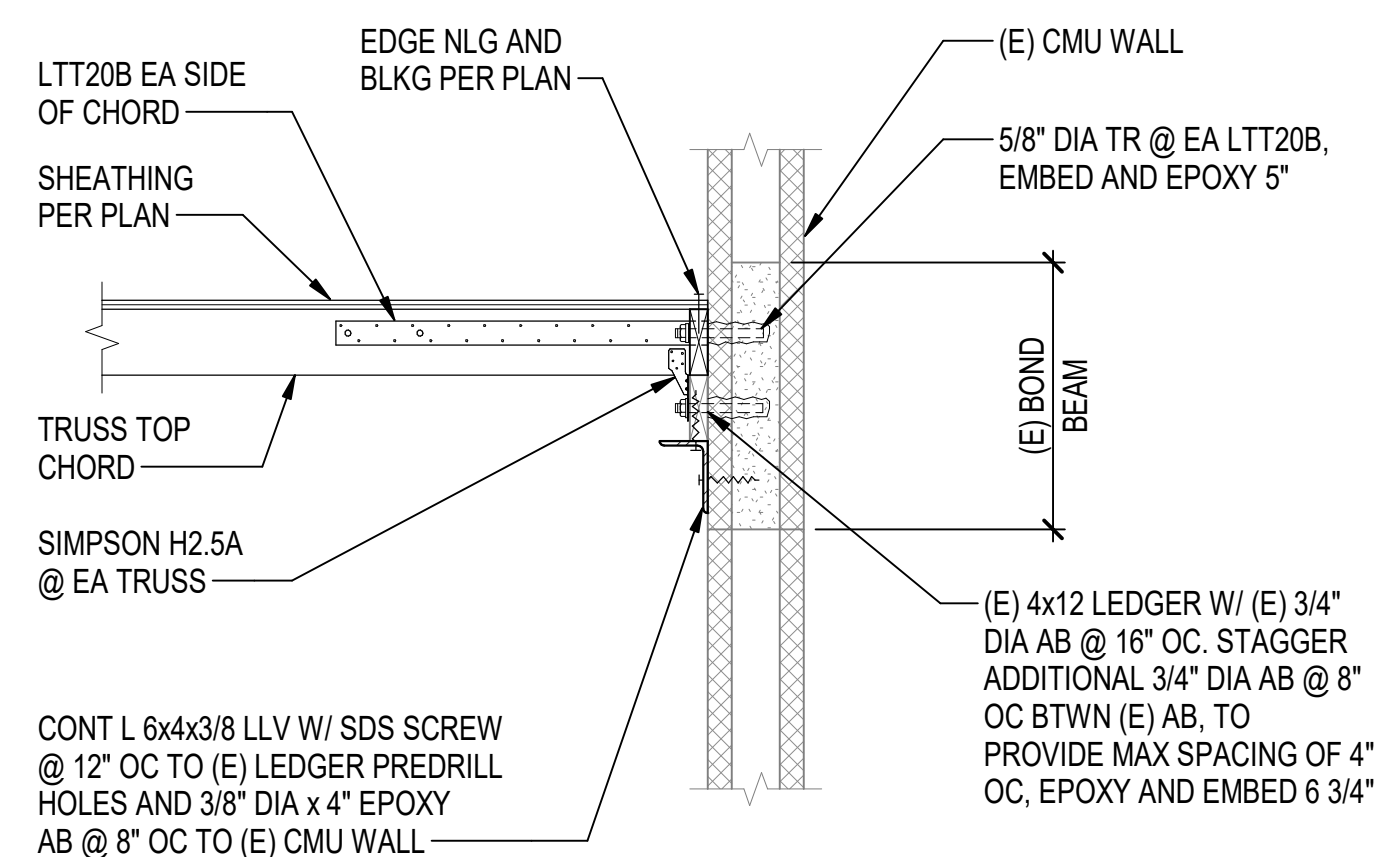
SPFR 31 - SHOP ADDITION
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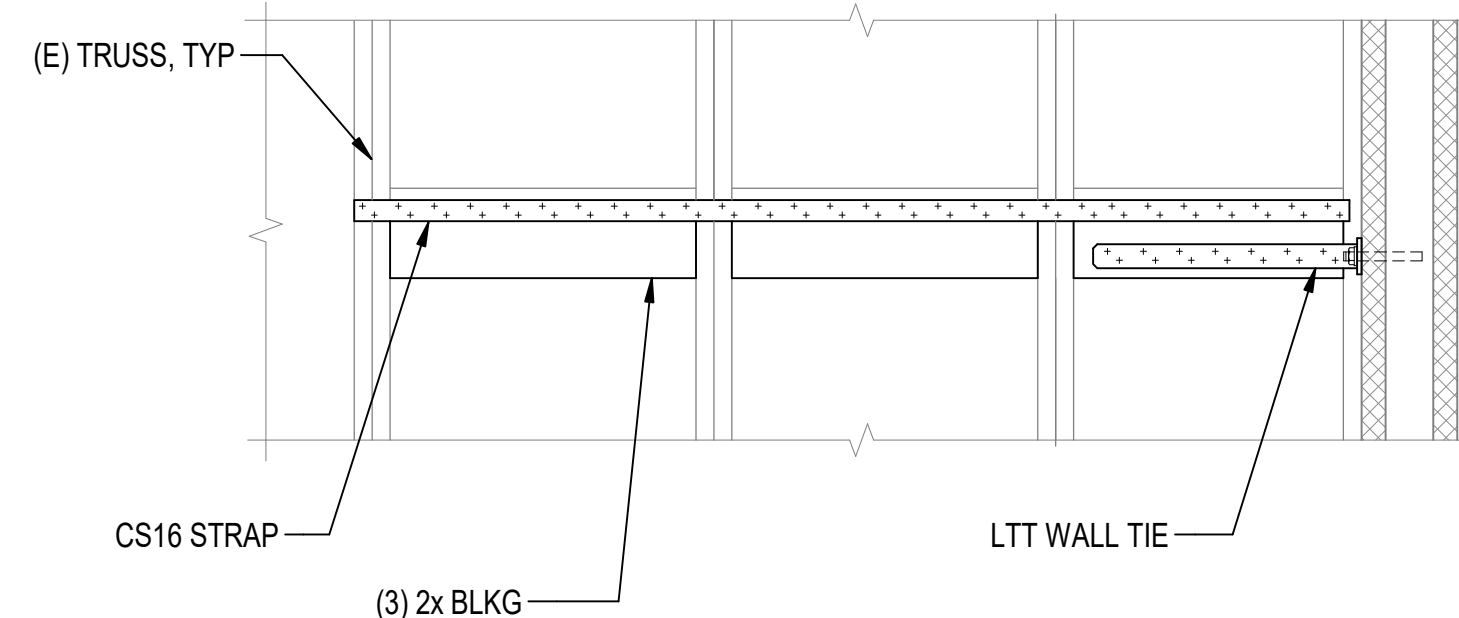
TYPICAL CMU DETAILS

SHEET #

S50.21

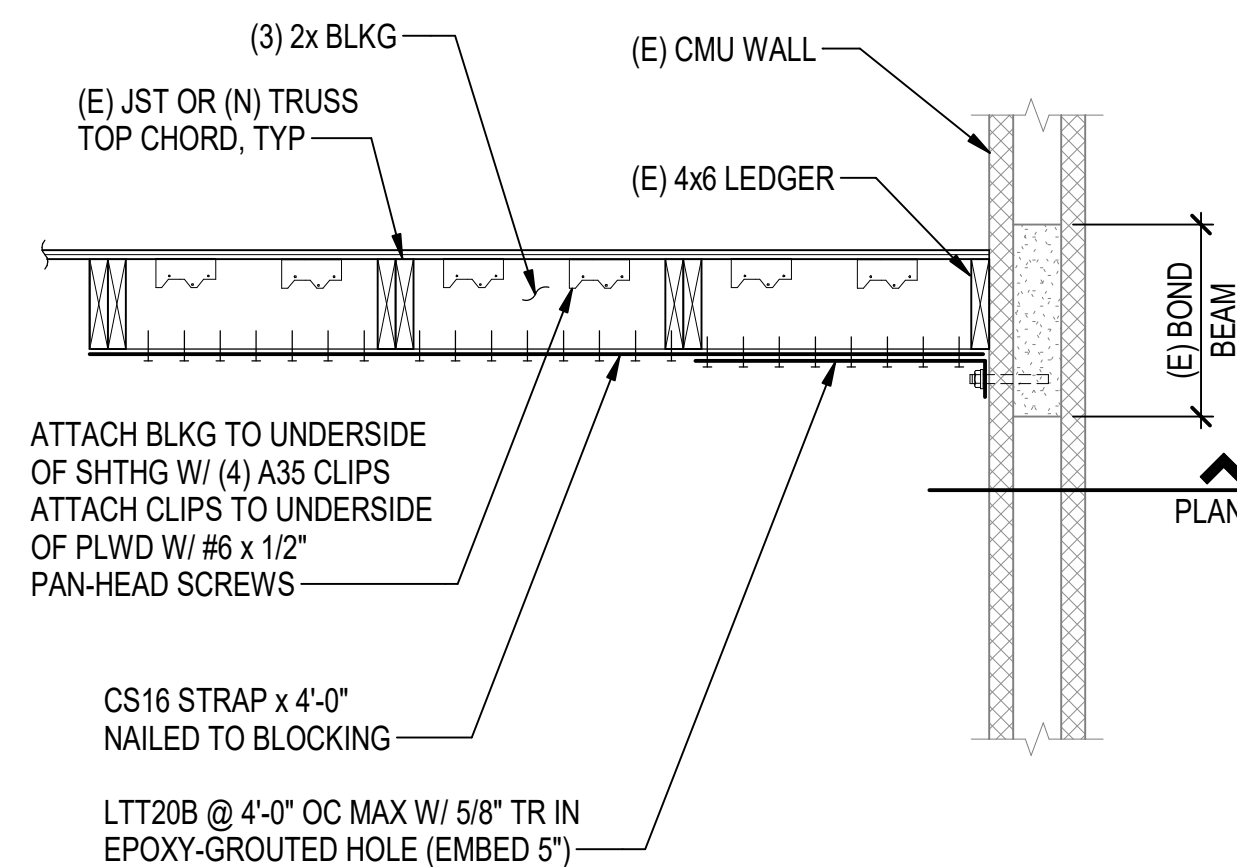


EXTERIOR WALL PERPENDICULAR TO JOIST ^{NTS} **5**

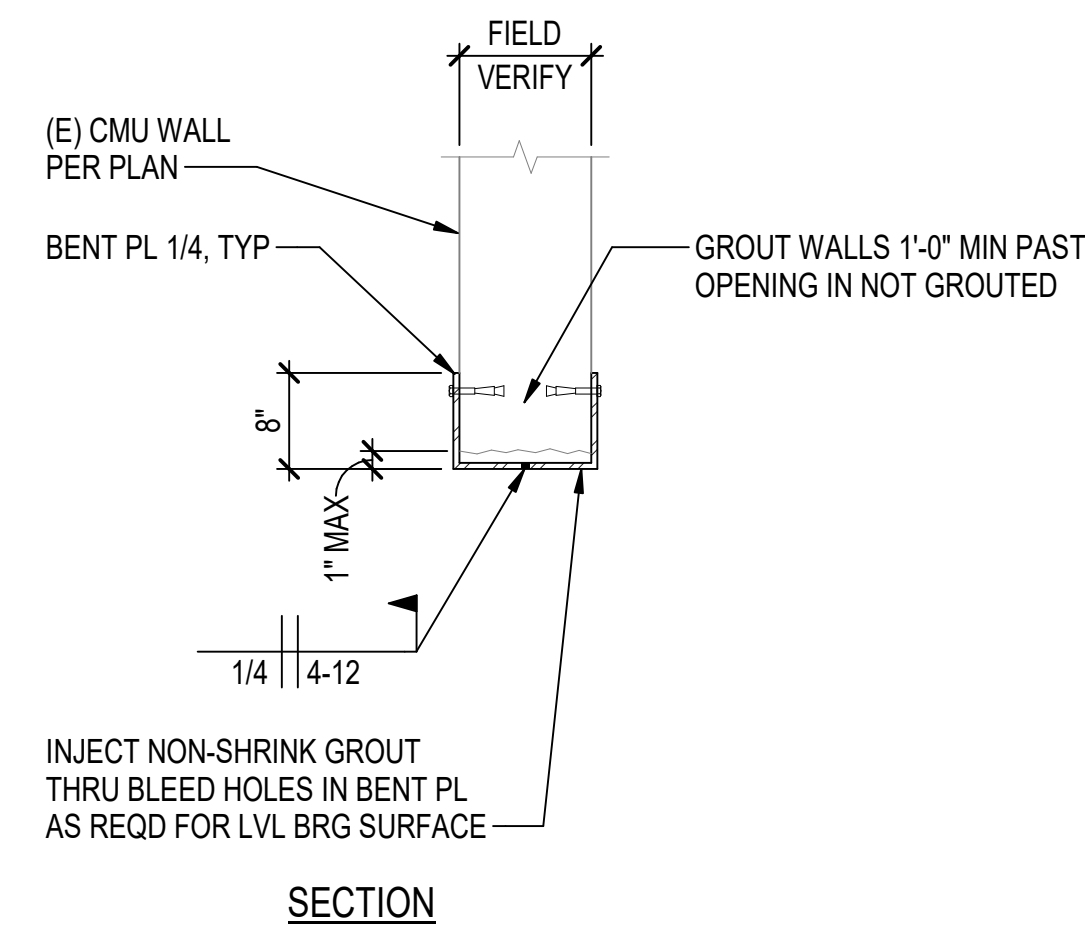
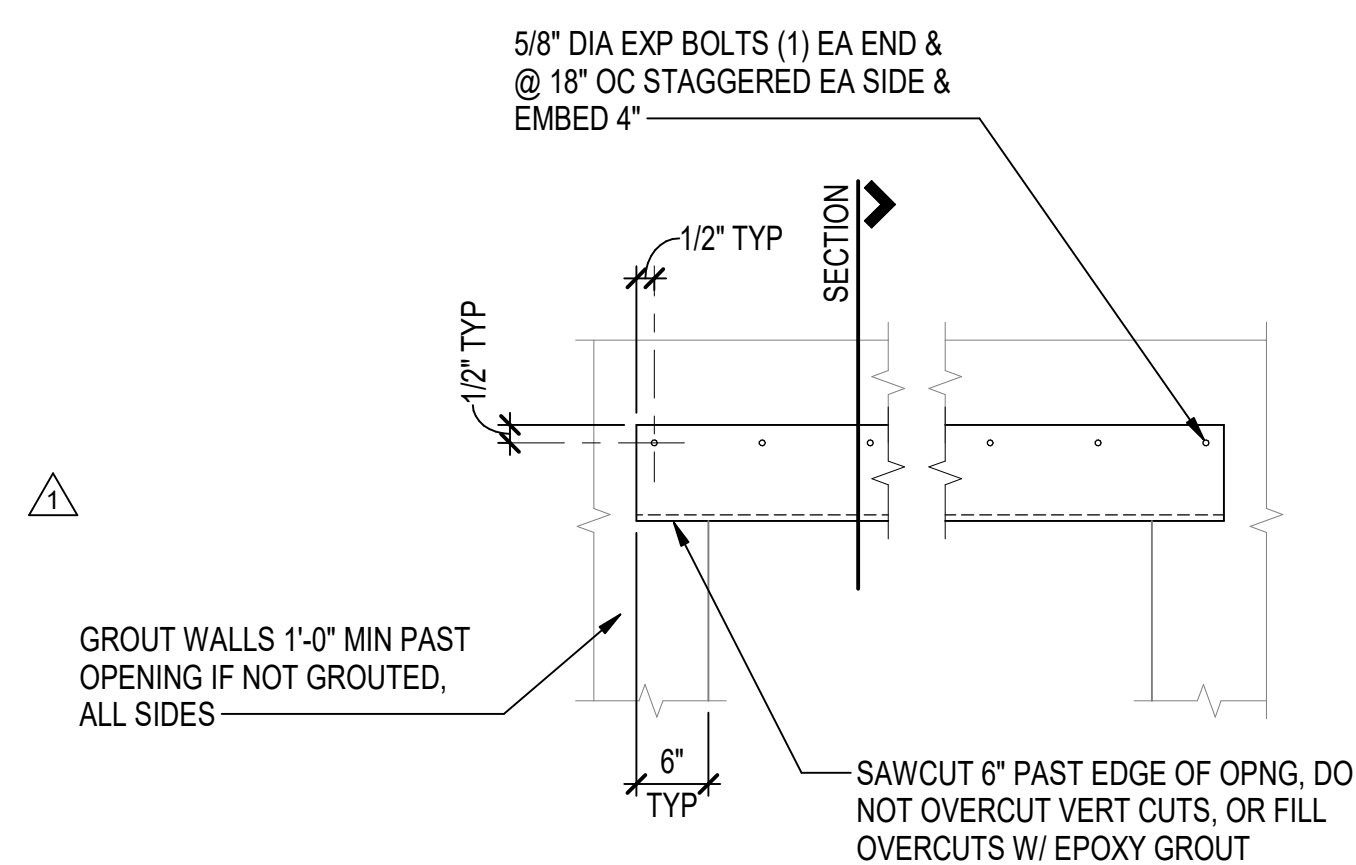


NOTE:

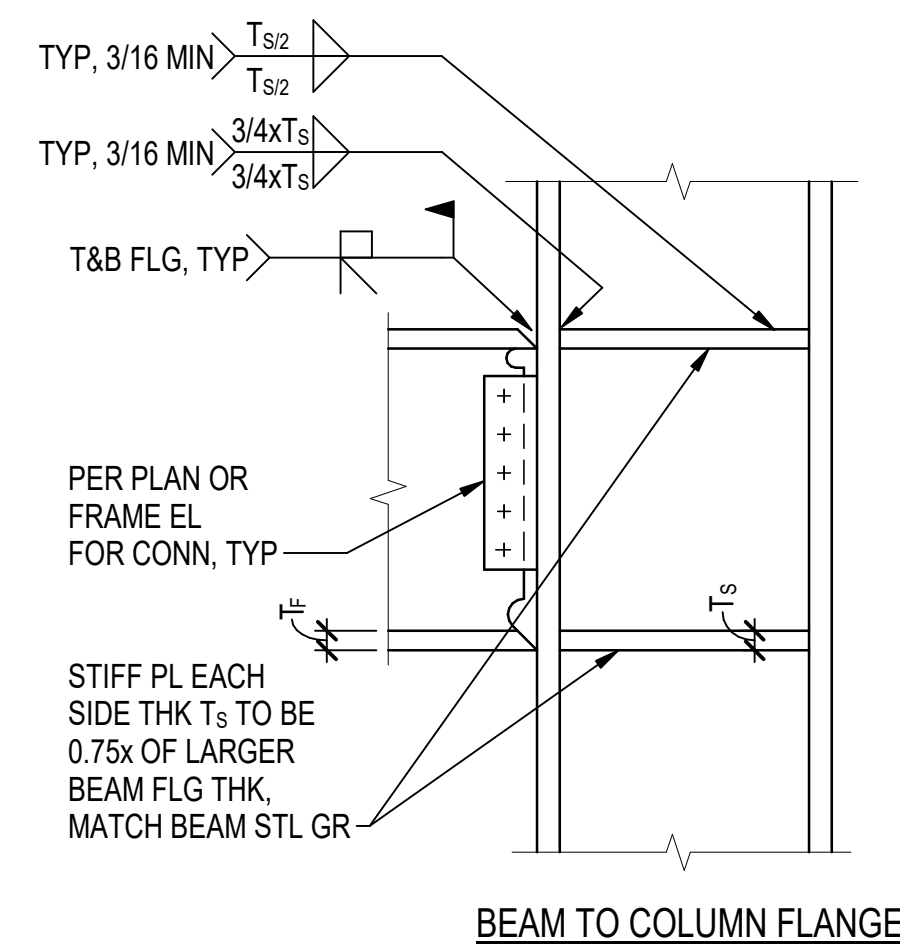
1. SEE 12/S50.51 AT NEW WOOD WALL ABOVE.



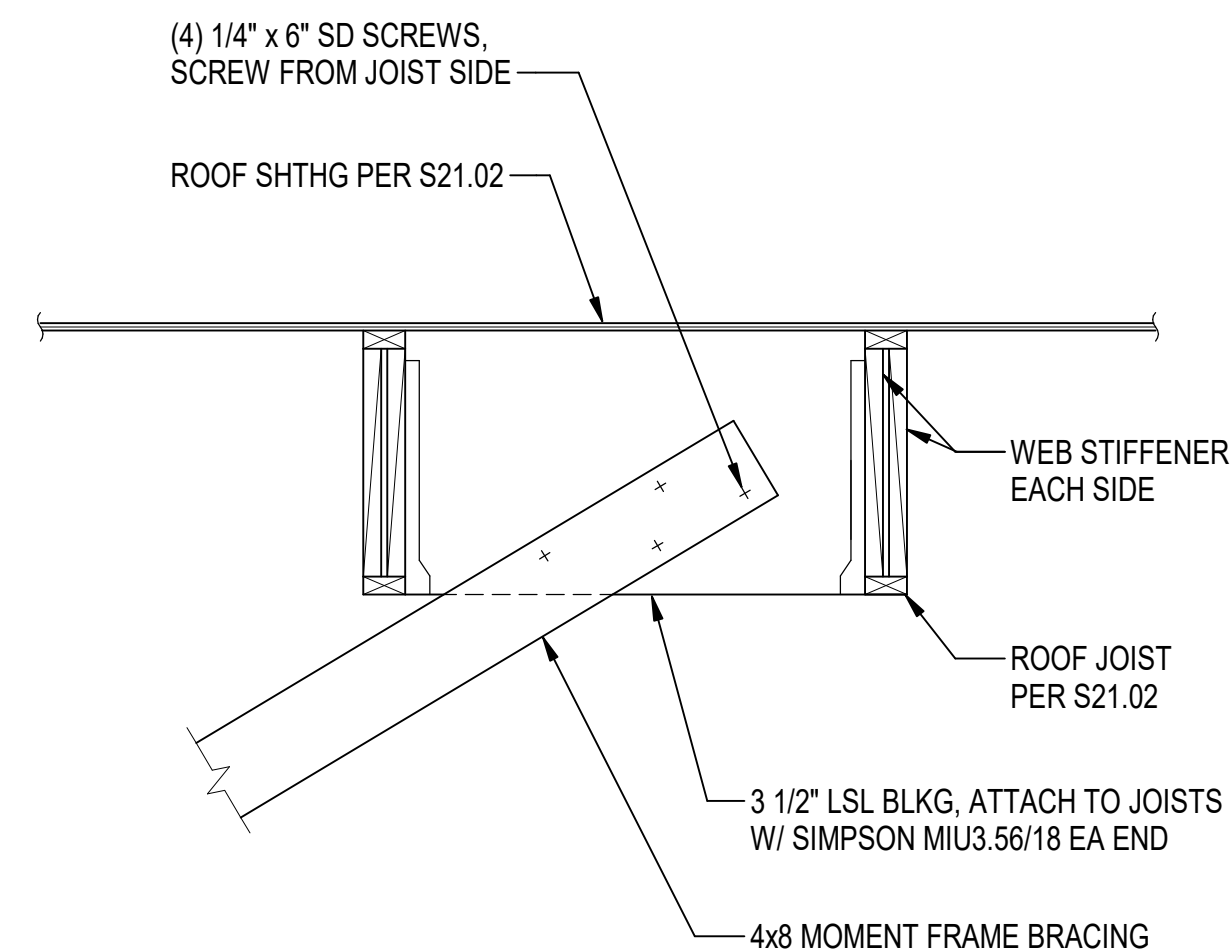
EXTERIOR WALL PARALLEL TO JOIST **10**
NTS



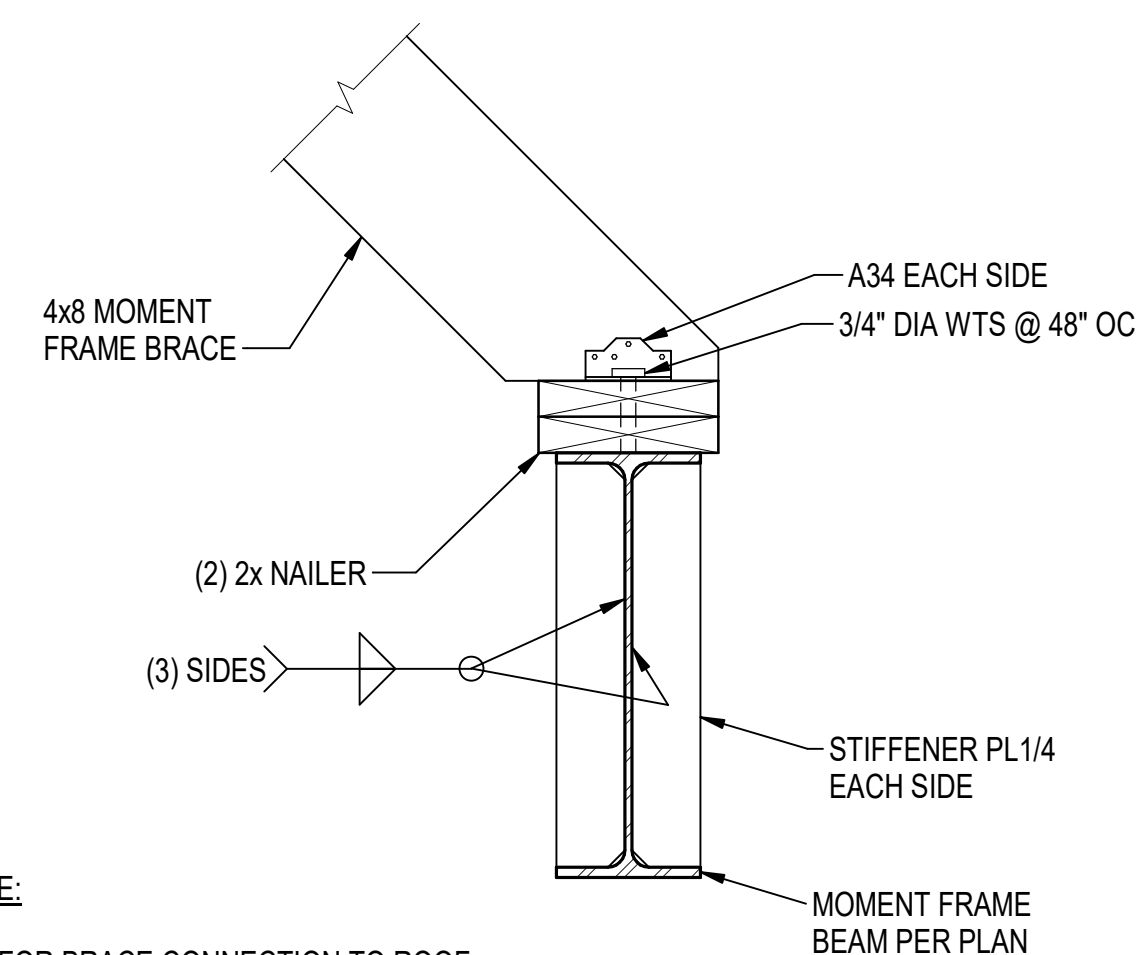
STEEL HEADER ABOVE OPENING ^{NTS} 12



MOMENT FRAME TO COLUMN CONNECTION 1
NTS



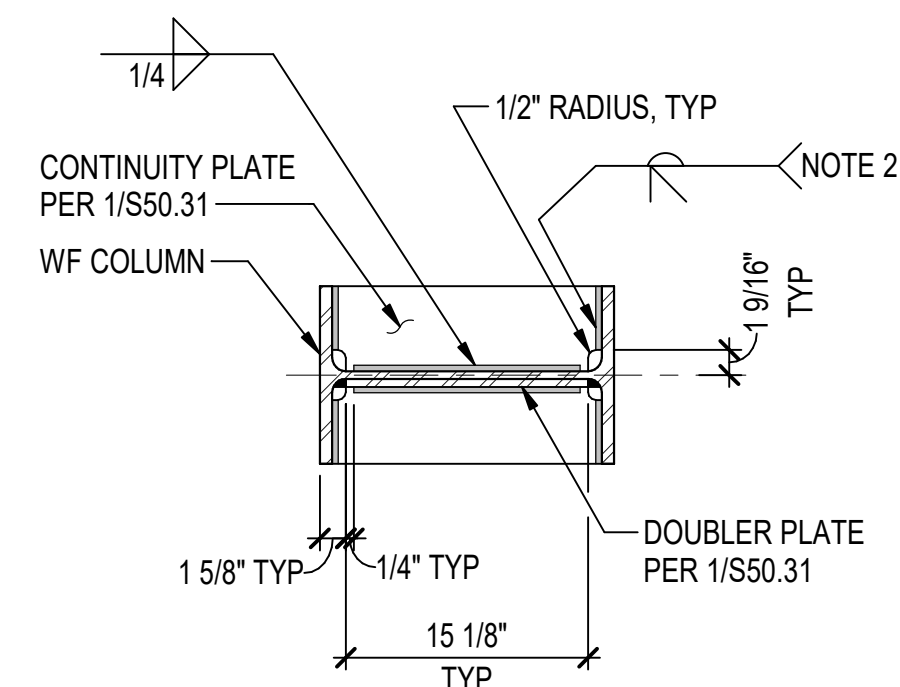
MOMENT FRAME BRACING - TOP CONNECTION 3
NTS



NOTE:

1. FOR BRACE CONNECTION TO ROOF,
SEE DETAIL 3/S50.31.

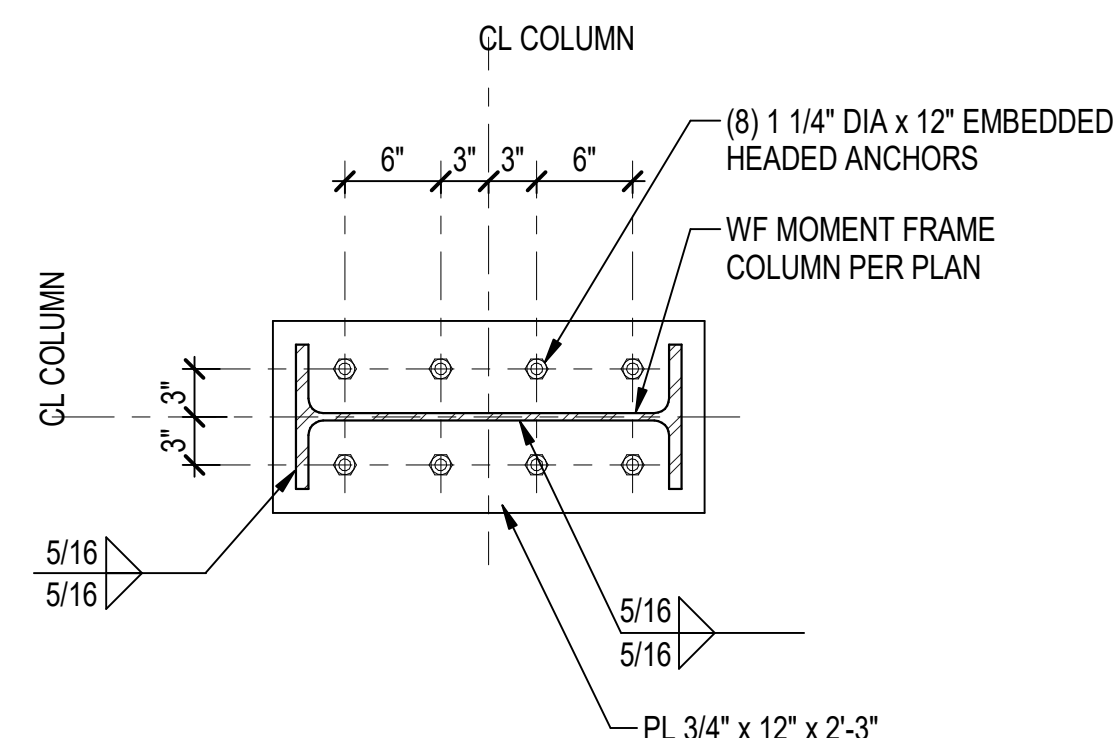
MOMENT FRAME BRACING - BOTTOM CONNECTION 4
NTS



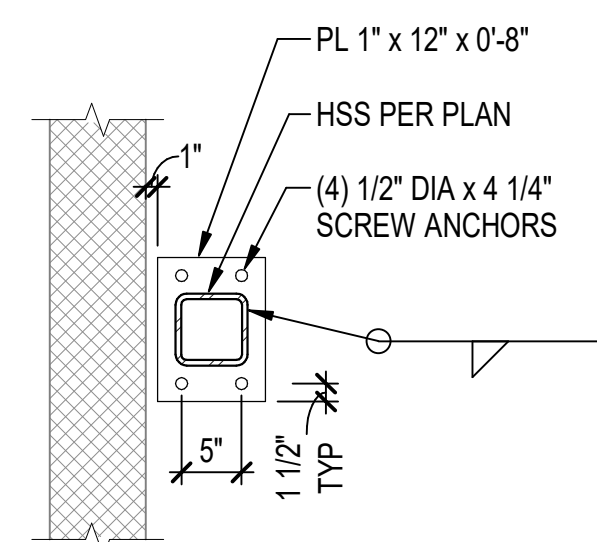
NOTES:

1. DEMAND CRITICAL. CJP, NO BACKING. ROOT SHALL BE ON BEAM WEB SIDE OF FLANGE. INSIDE FACE OF FLANGE SHALL HAVE A 5/16" FILLET WELD. WELD WITHIN 1.5" OF BEAM CENTERLINE. NEED TO BE BACKGOUGED OR REINFORCED WITH FILLET WELD.
2. CJP, LEAVE STEEL BACKING IN PLACE AND WELD BACKING TO COLUMN WITH 5/16" FILLET WELD.

CONTINUITY AND DOUBLER PLATE WELDS



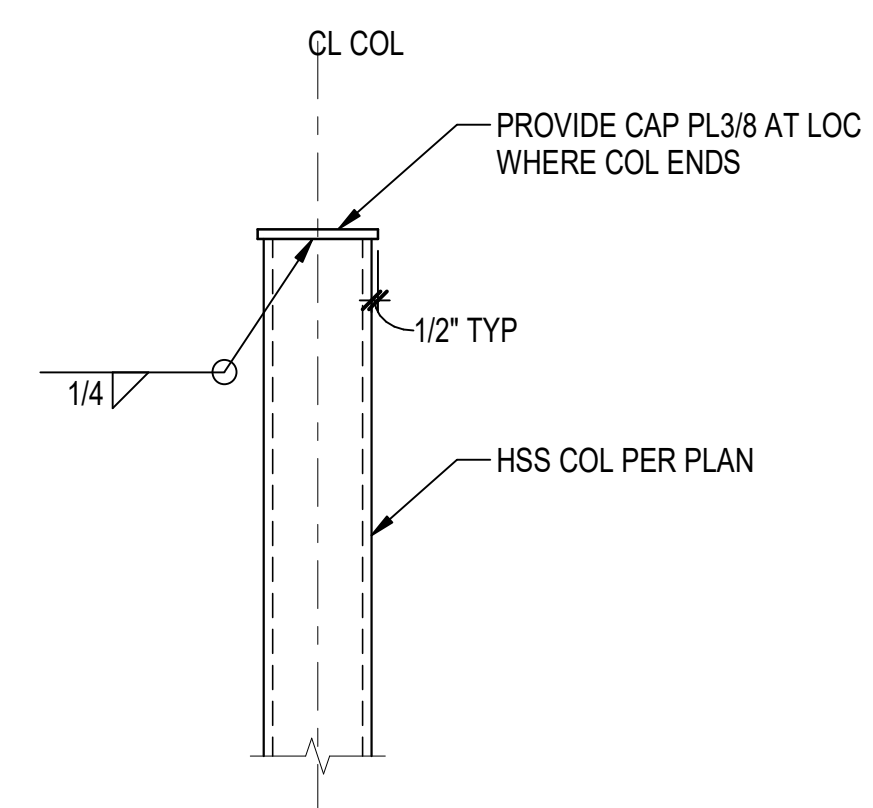
MOMENT FRAME BASE PLATE ^{NTS} 6



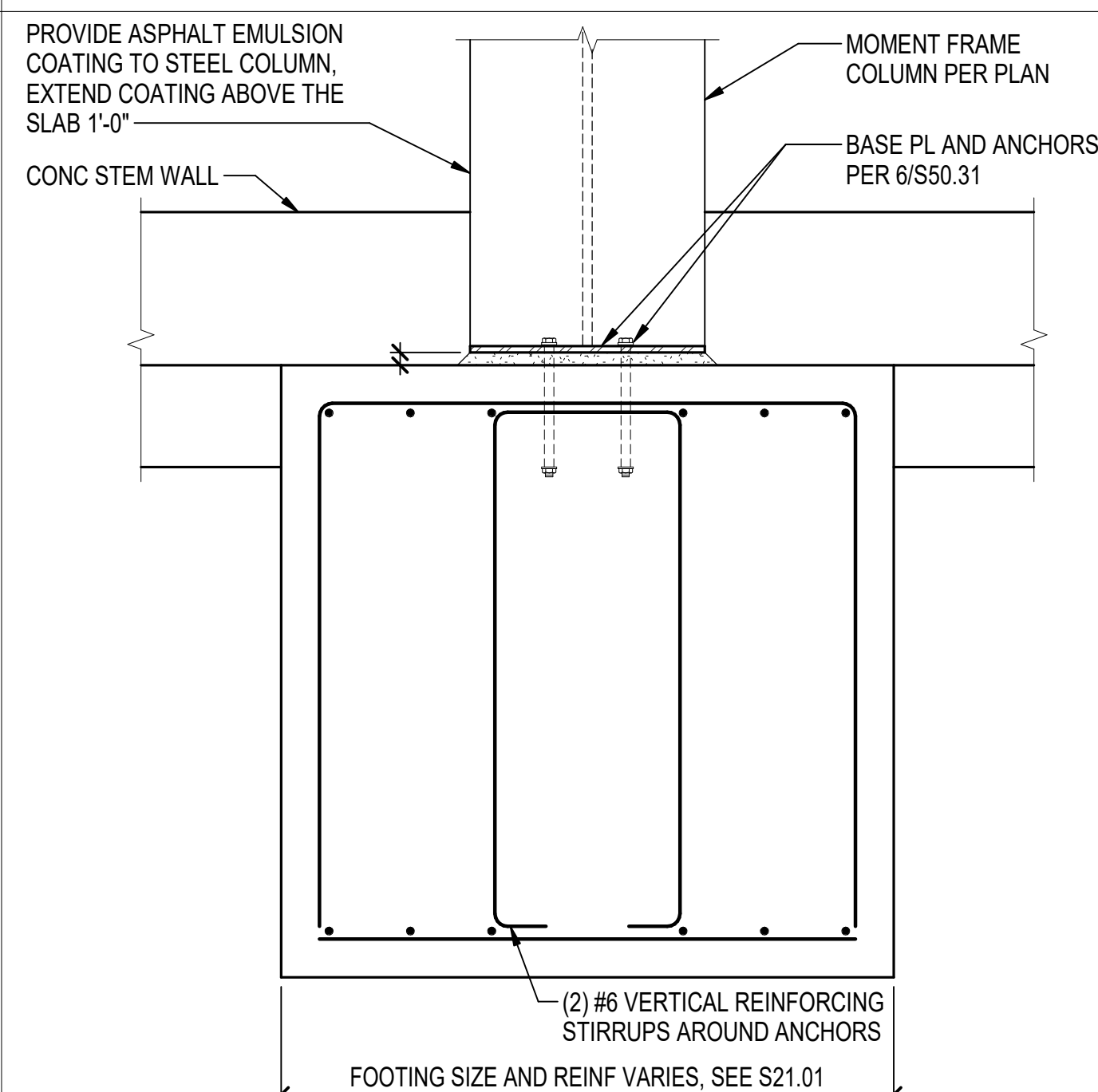
NOTE:

1. LOCATE EXISTING SLAB REINFORCING PRIOR TO ANCHOR INSTALLATION. DO NOT DAMAGE EXISTING REINFORCING.

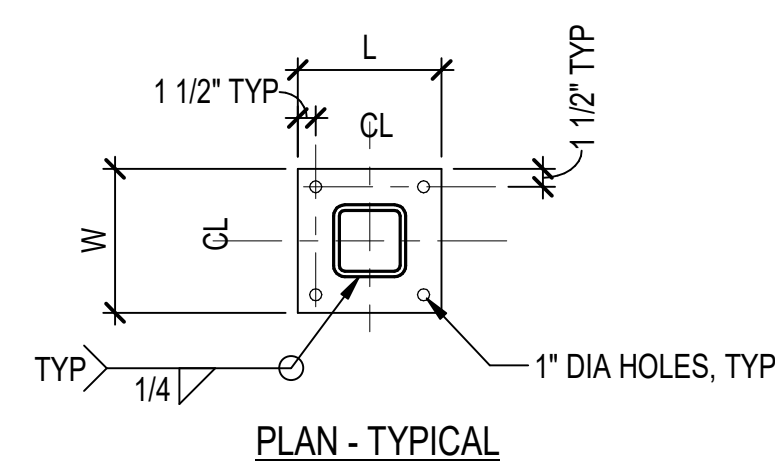
POST INSTALLED BASE PLATE 7



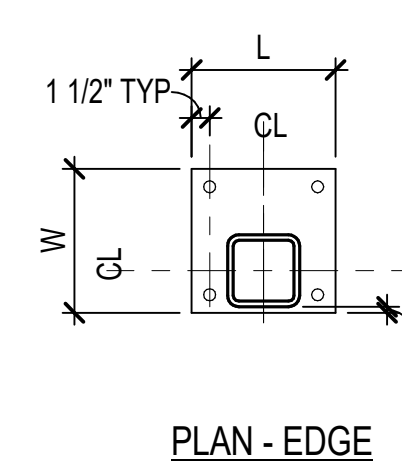
TYPICAL HSS COLUMN CAP DETAIL **8**
NTS



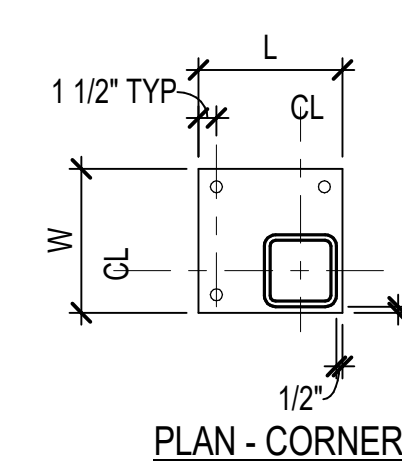
MOMENT FRAME FOUNDATION CONNECTION **10**
NTS



PLAN - TYPICAL



PLAN - EDGE



PLAN - CORNER

| BASE PLATE SCHEDULE | | |
|---------------------|-------------------|-------------------|
| COLUMN SIZE | PLATE SIZE LxW | PLATE THICK t" |
| HSS4x4 | 10" x 10" | 3/4" |
| HSS5x5 | 12" x 12" | 3/4" |
| HSS6x6 | 12" x 12" | 1" |
| HSS7x7 | 13" x 13" | 1 1/4" |
| HSS8x8 | 14" x 14" | 1 1/4" |

TYPICAL BASE PLATE DETAIL **12**
NTS

SPFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

PROJECT # 262023.015

BID SET

ISSUE DATE 3/22/2024

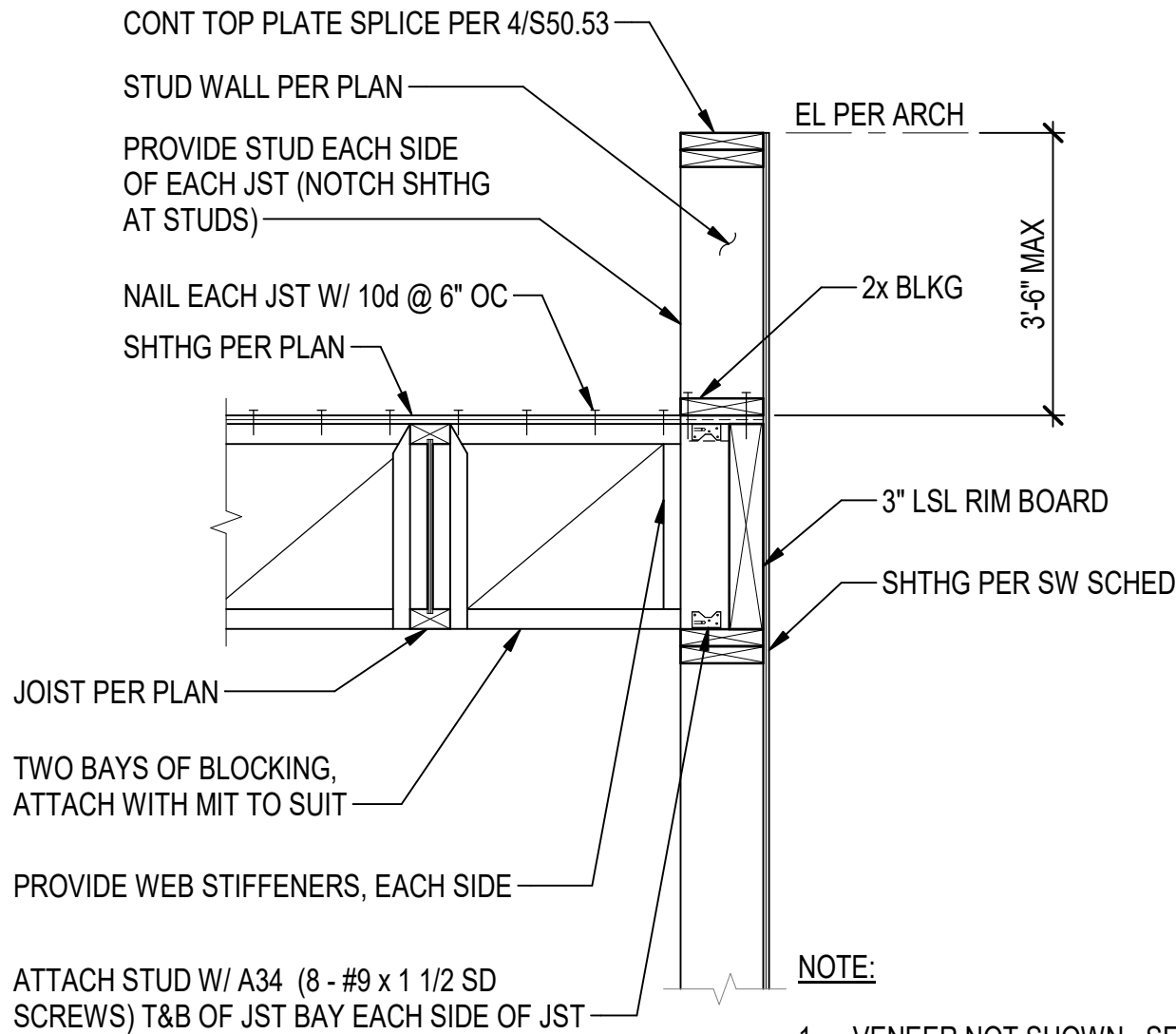
| REVISION SCHEDULE | |
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AHJ APPROVAL STAMP

TYPICAL WOOD
DETAILS

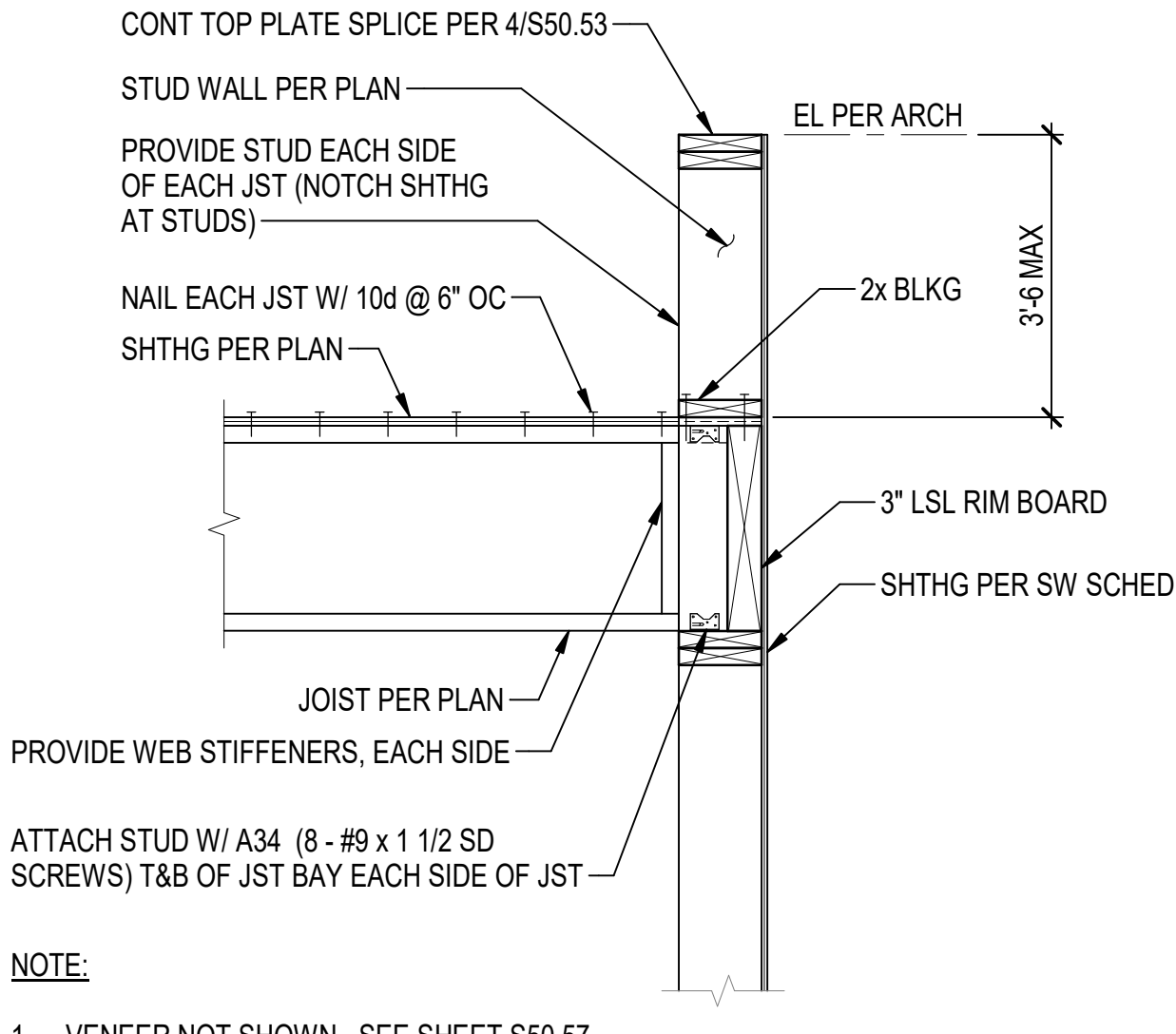
SHEET #

S50.51



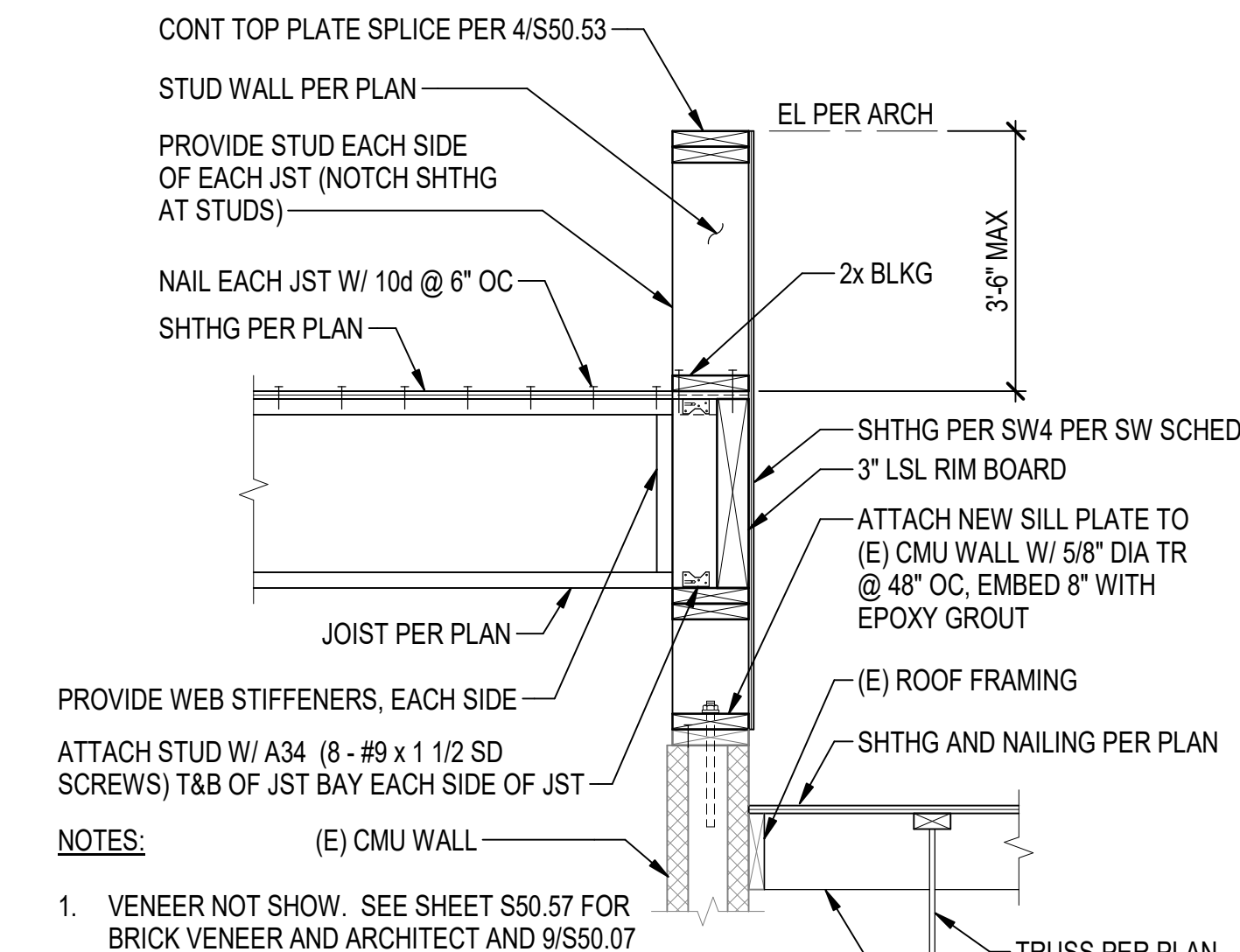
ROOF JOISTS PARALLEL TO EXT WALL W/ PARAPET
NTS

10



ROOF JOISTS
PERPENDICULAR TO EXTERIOR WALLS WITH PARAPET
NTS

11



ROOF JOISTS
PERPENDICULAR TO EXTERIOR WALLS WITH PARAPET
NTS

12

SPFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

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| PROJECT # | 262023.015 |
| BID SET | |

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| ISSUE DATE | 3/22/2024 |
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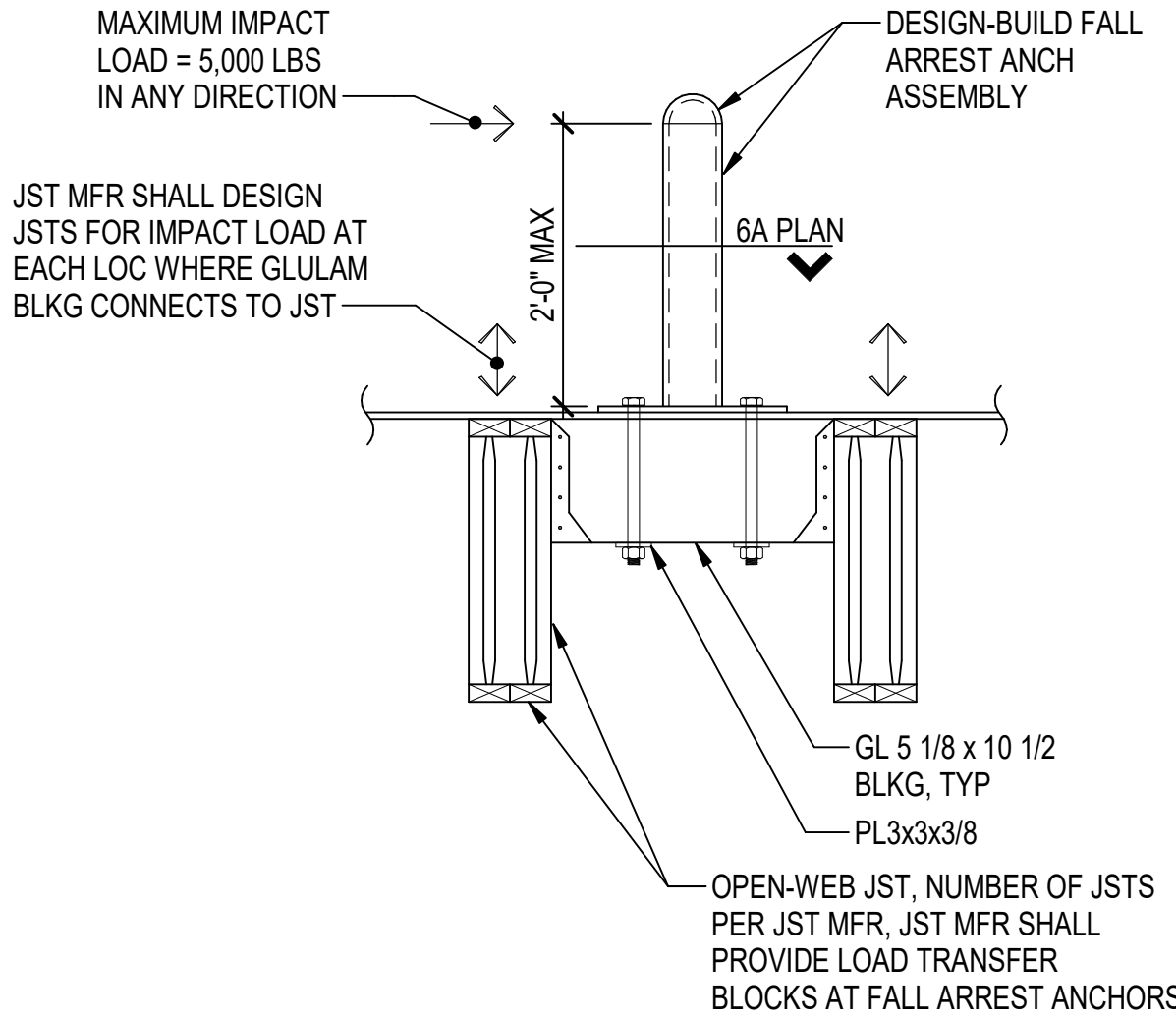
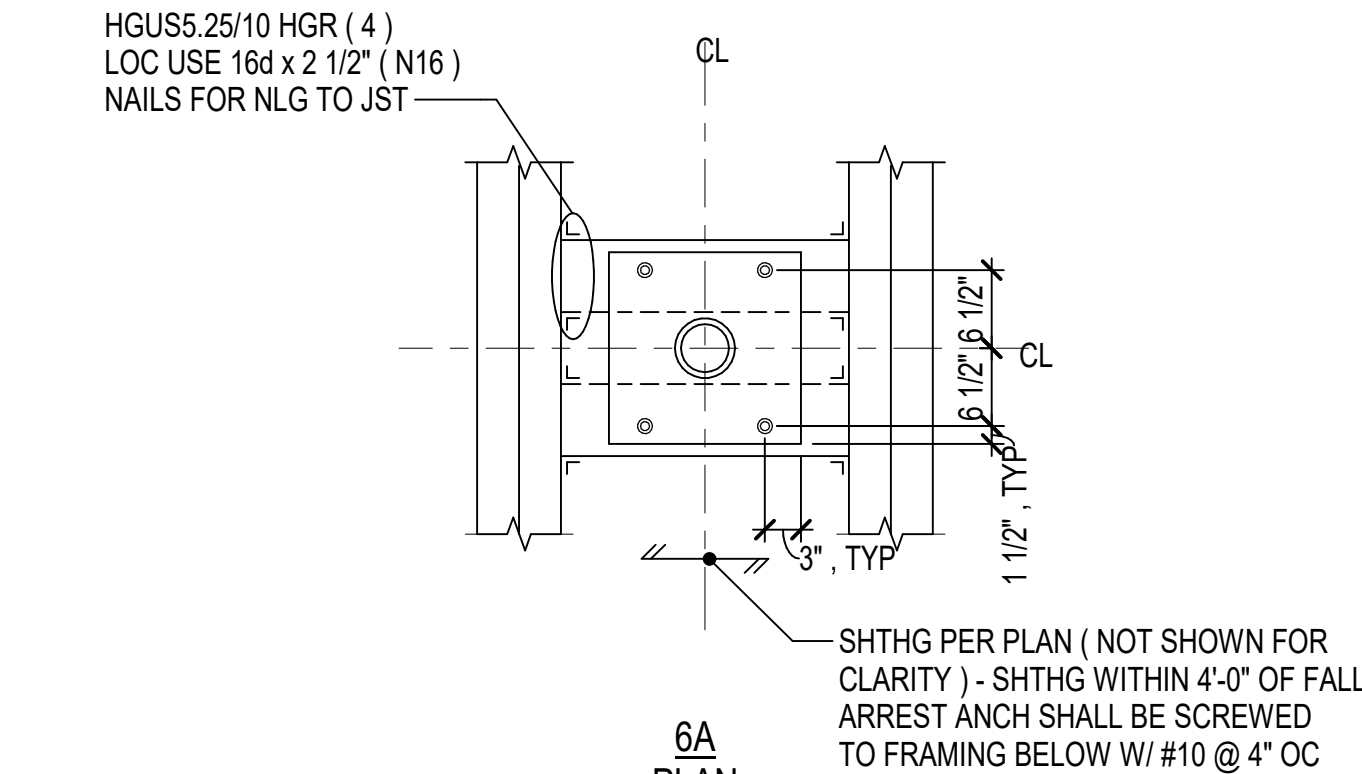
| REVISION SCHEDULE | |
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AHJ APPROVAL STAMP

TYPICAL WOOD
DETAILS

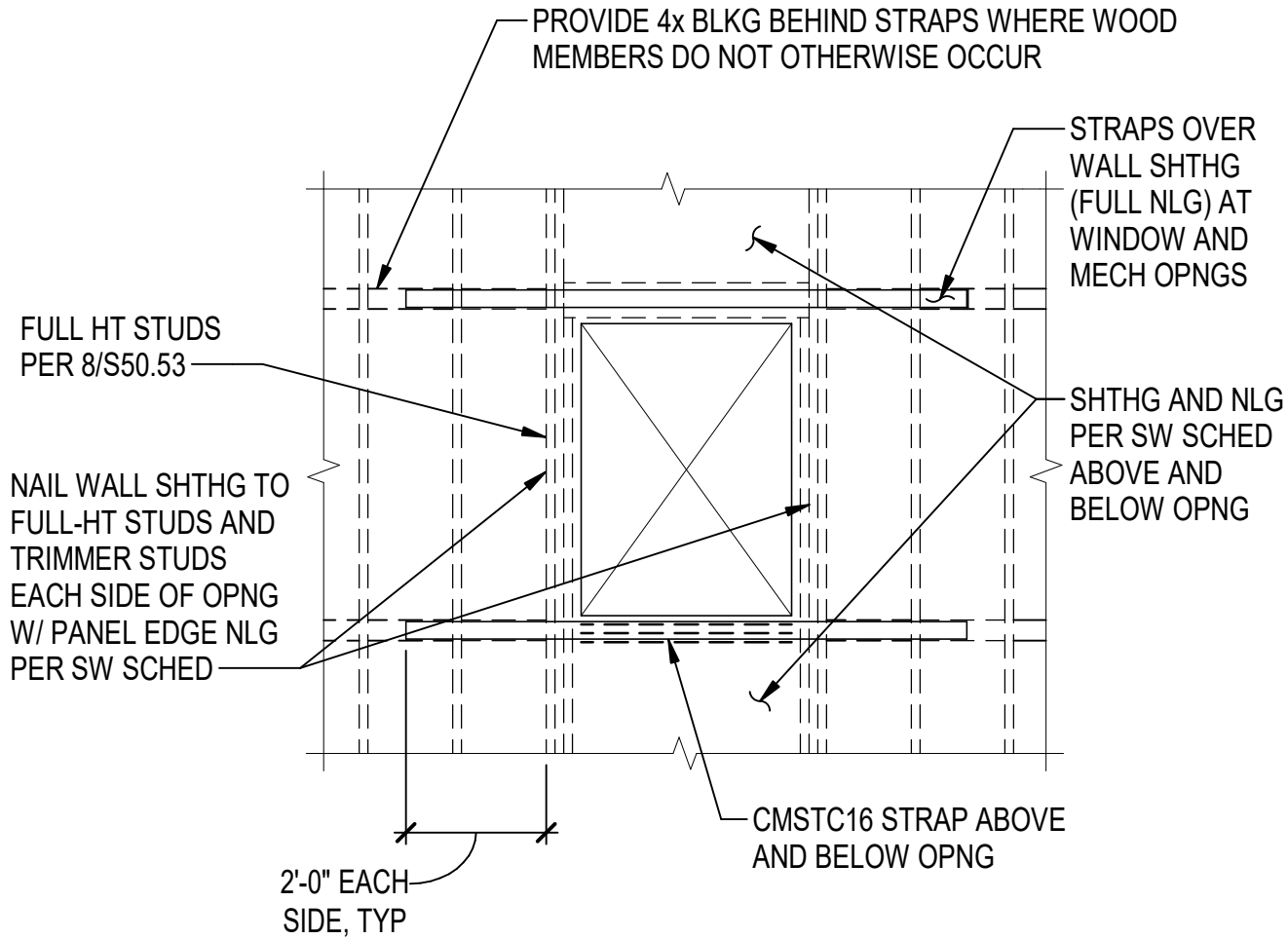
SHEET #

S50.52



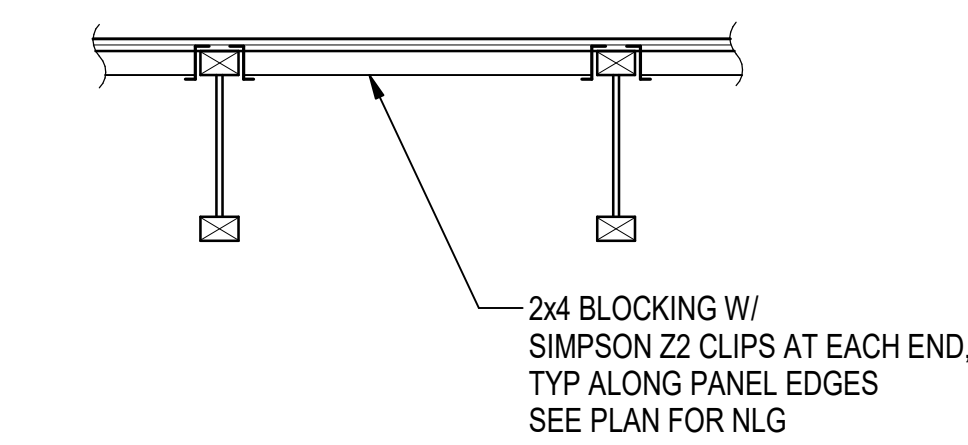
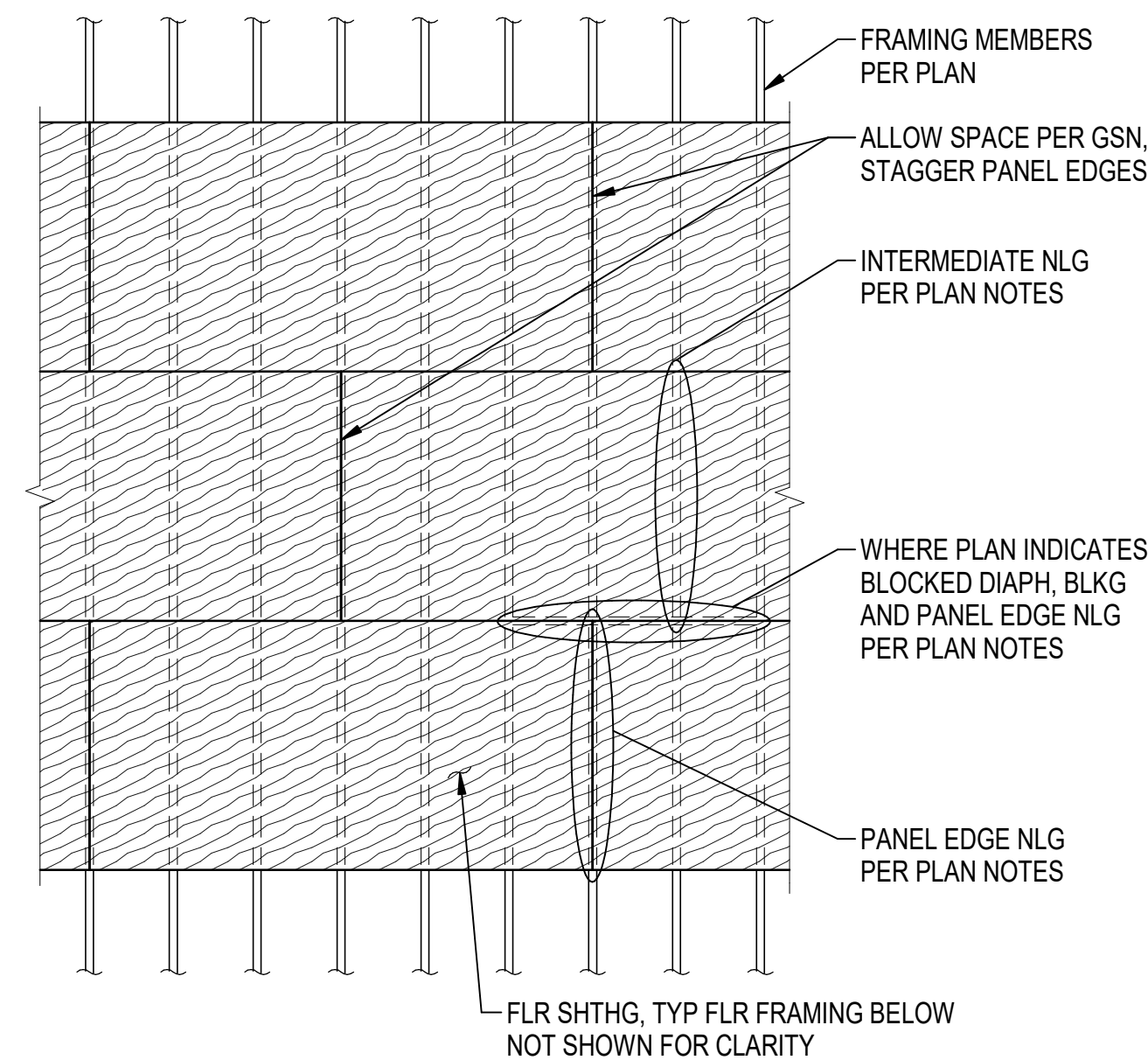
FALL ARREST SUPPORT
NTS

11



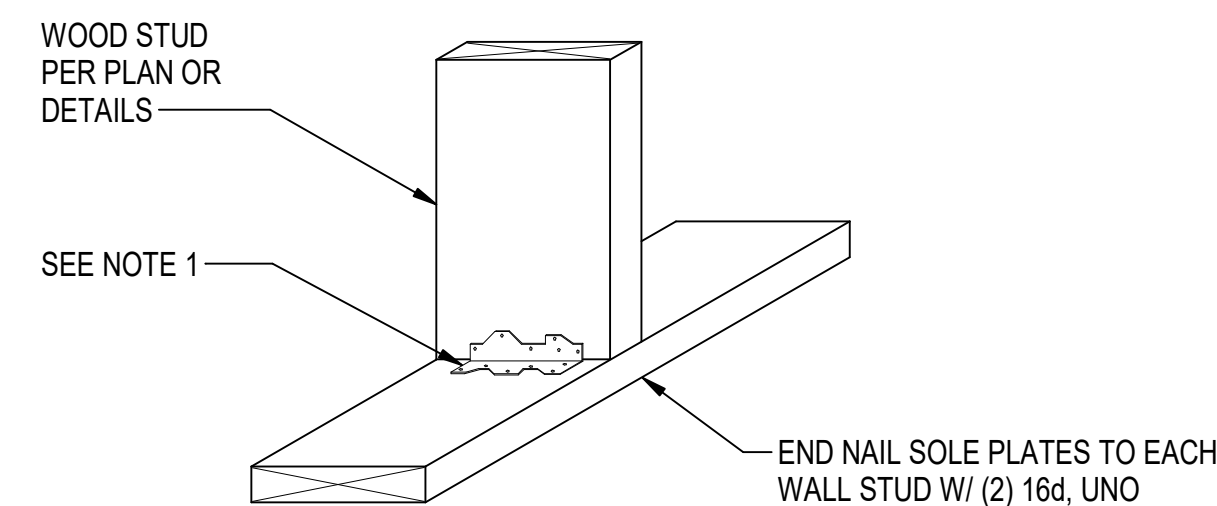
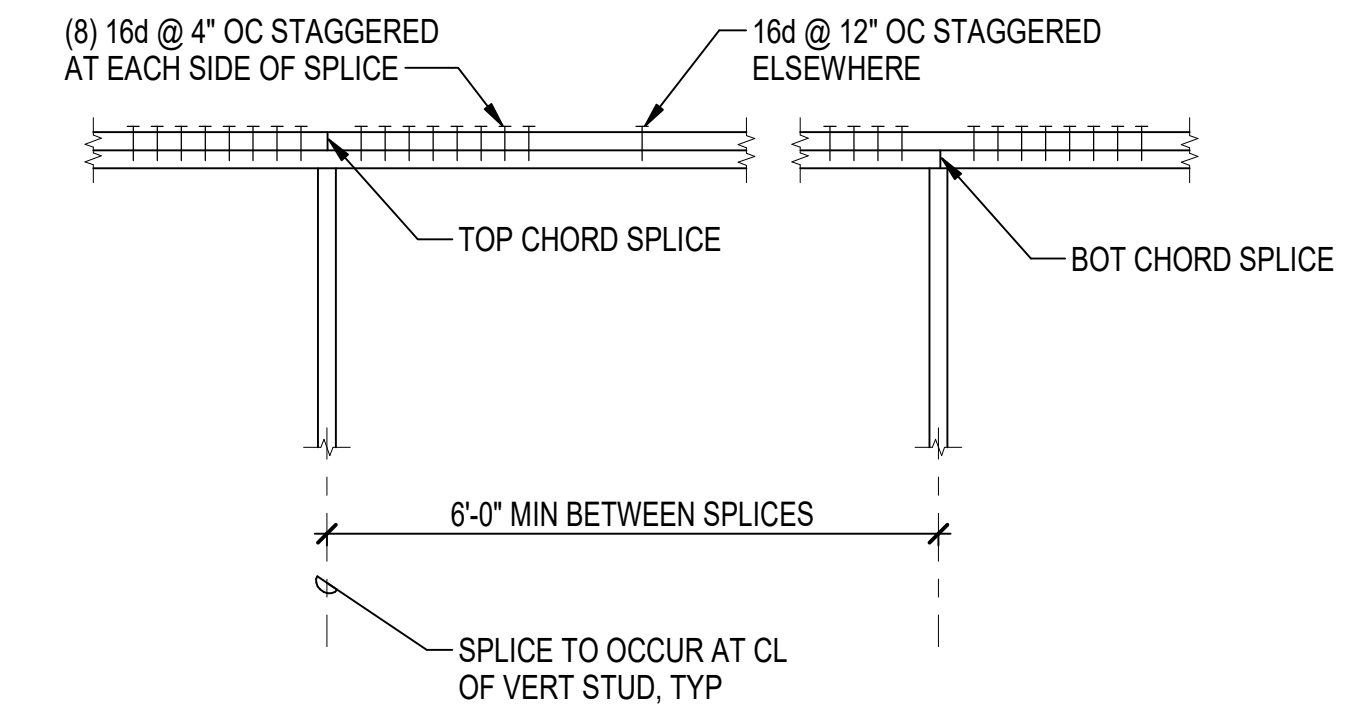
STRAPS AT WINDOWS / DUCT OPENINGS IN SW
NTS

8



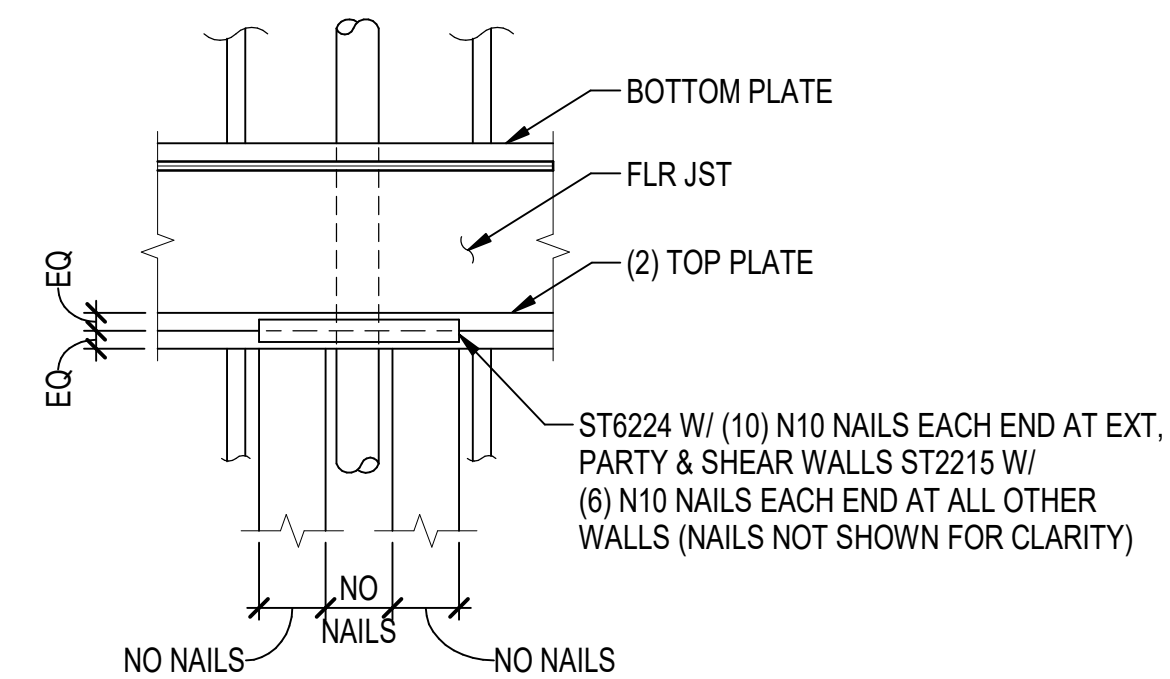
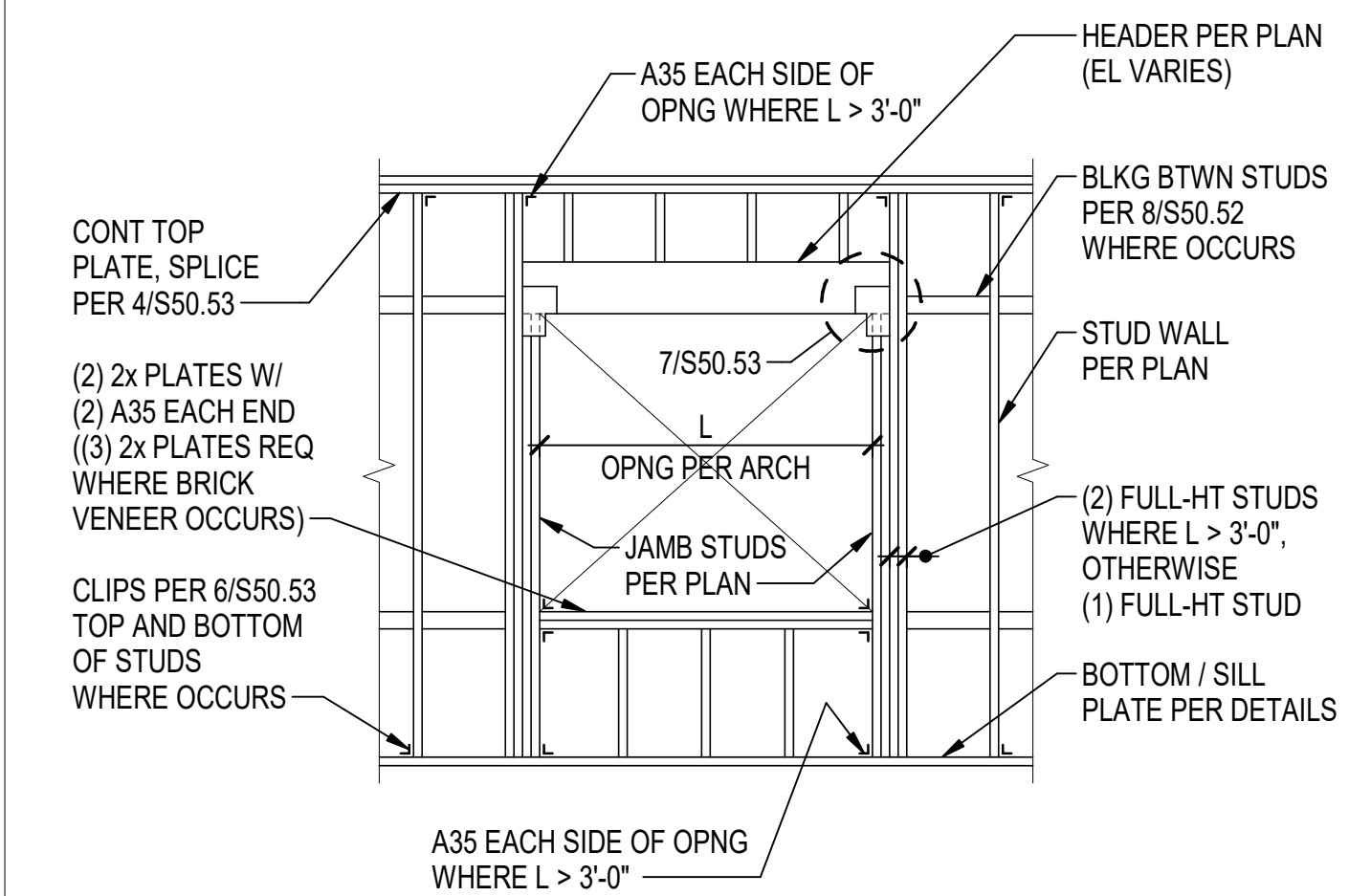
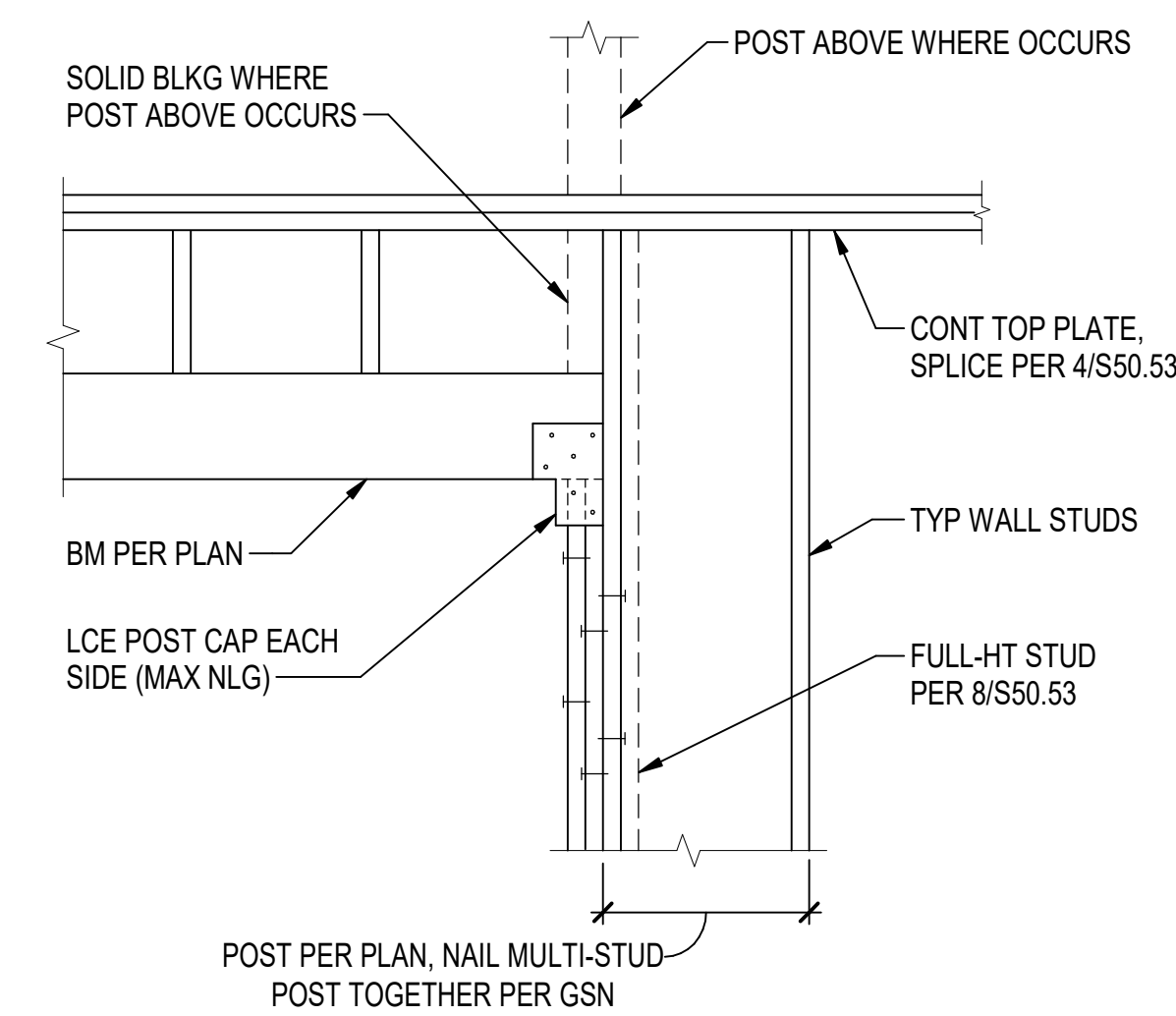
NOTE:

1. TYPICAL AT ALL PANEL EDGES WHERE BLOCKING IS REQUIRED, SEE PLAN FOR LOCATIONS.



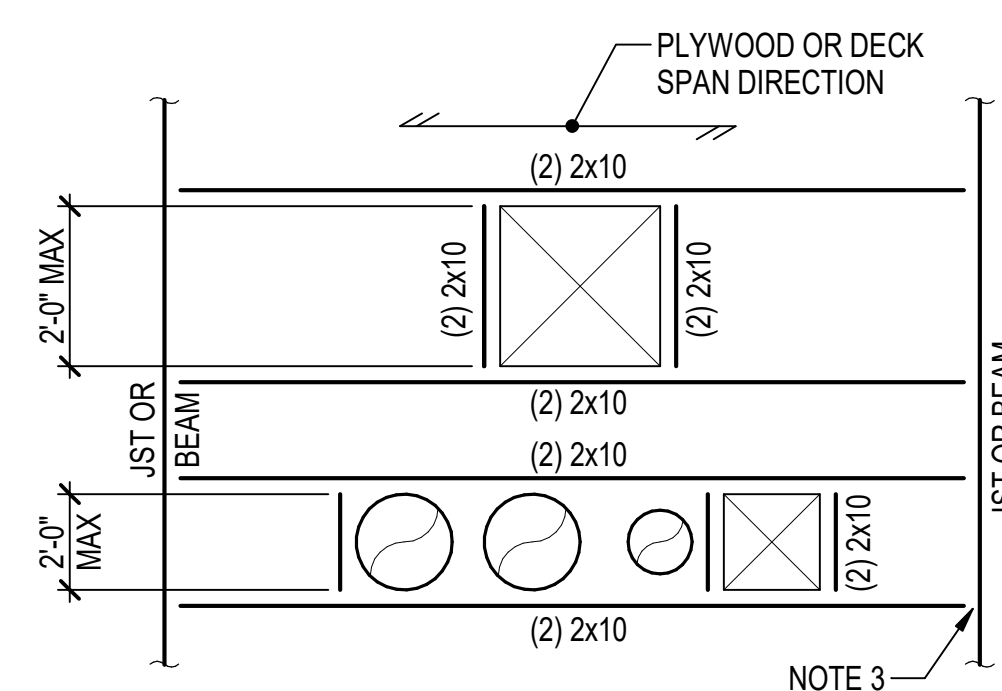
NOTE:

1. ALL STUDS GREATER THAN 14'-0" IN HEIGHT AND SUBJECT TO WIND LOADING SHALL BE ATTACHED TO TOP AND BOTTOM PLATES WITH A35, UNO.



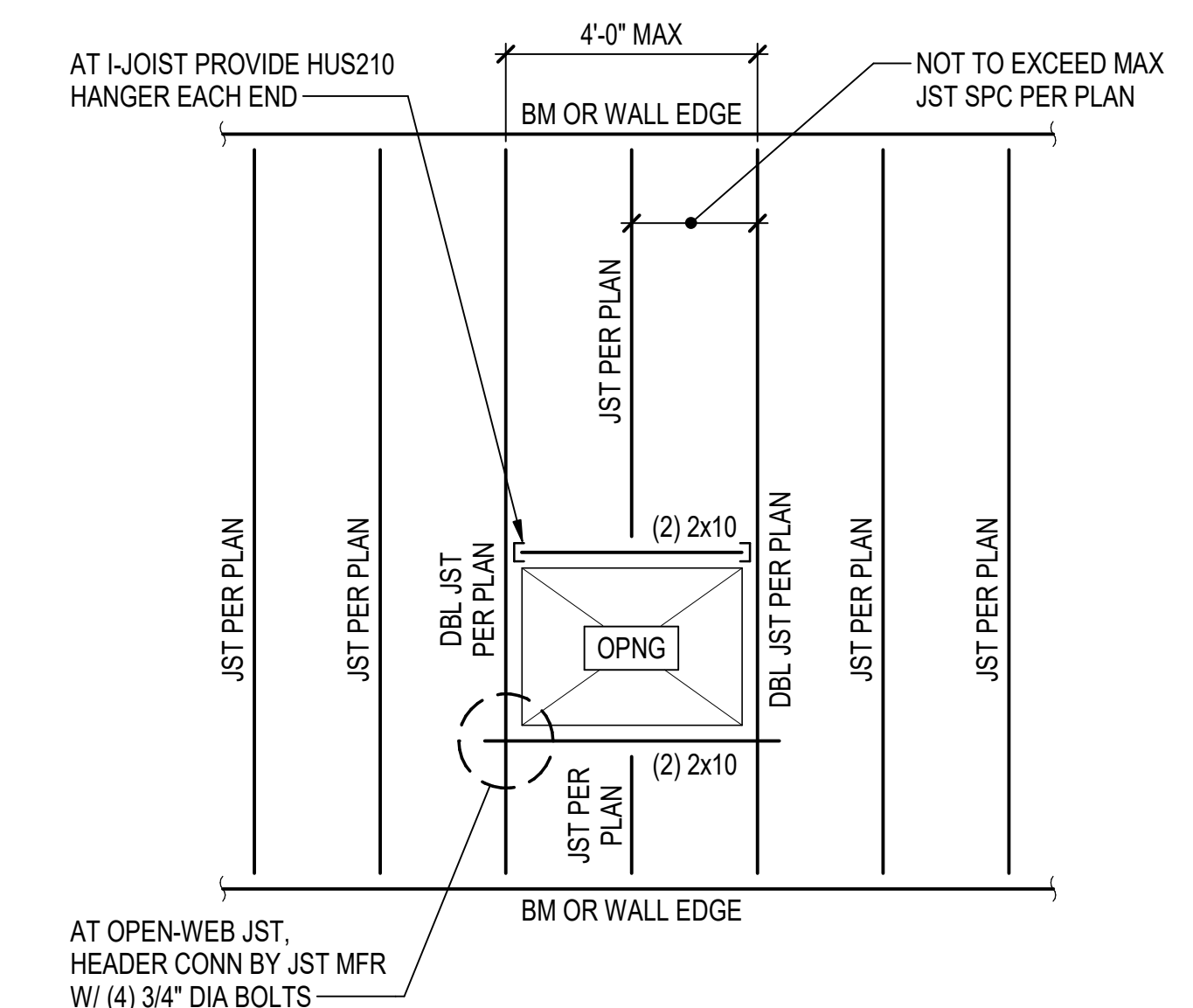
NOTES:

1. INSTALL STRAP AT EACH CUT OR NOTCH > 25% OF TOP PLATE WIDTH AND AT EACH BORED HOLE > 40% OF TOP PLATE WIDTH
2. "N10 NAIL" IS 0.148" DIA x 1 1/2".



NOTES:

1. ATTACH PLYWOOD OR DECK TO FRAMING WITH DIAPHRAGM BOUNDARY NAILING
2. LARGER OPENINGS MUST BE COORDINATED WITH ARCHITECT AND ENGINEER.
3. CONTRACTOR AND JOIST MANUFACTURER TO COORDINATE OPENINGS. JOIST MANUFACTURER TO PROVIDE WEB FILLER AND / OR TRANSFER BLOCKS.

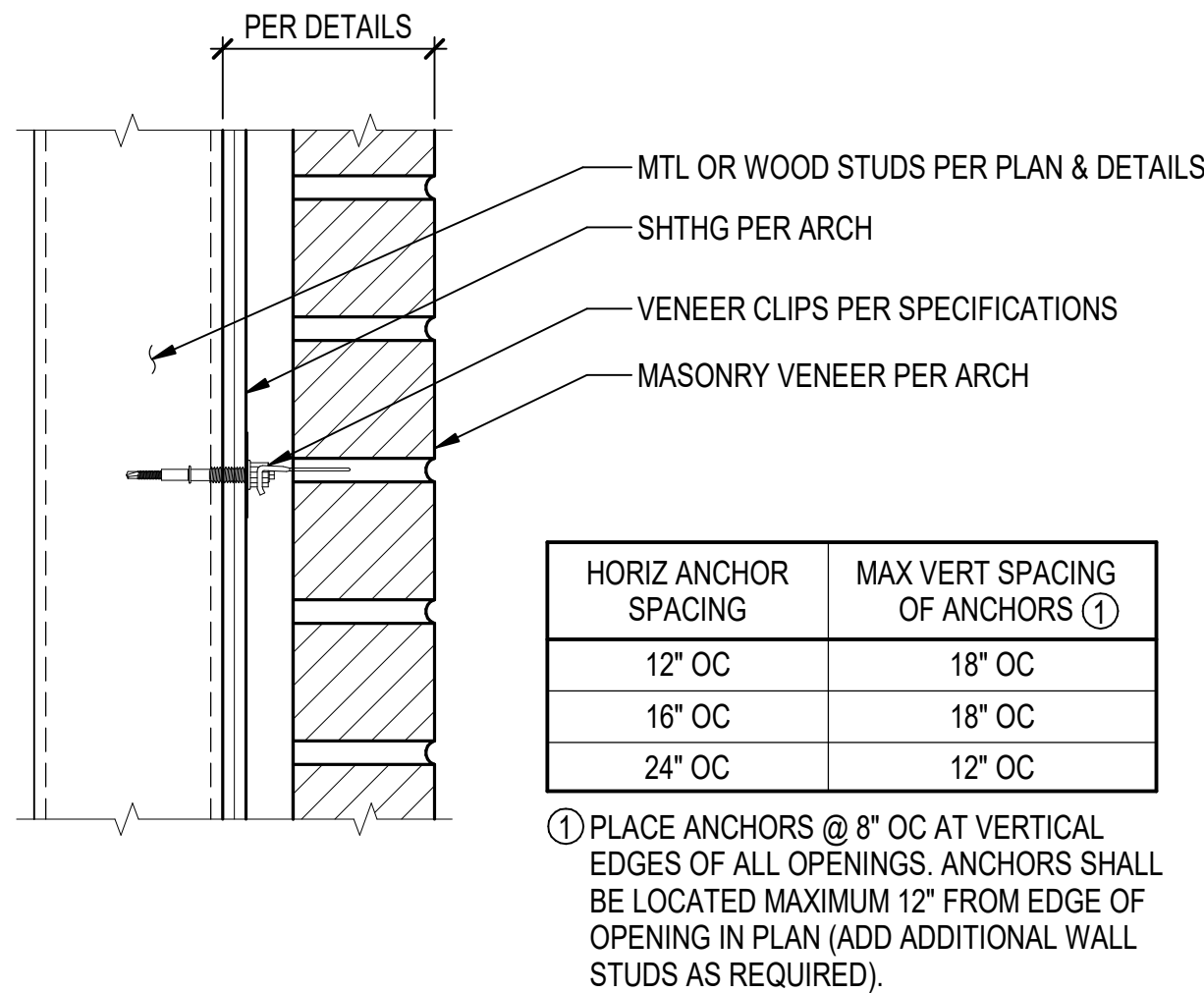


NOTE:

1. SEE 11/S50.53 FOR ADDITIONAL INFORMATION NOT SHOWN.

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| PROJECT # | | 262023.015 |
| BID SET | | |
| ISSUE DATE | | 3/22/2024 |
| REVISION SCHEDULE | | |
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| AHJ APPROVAL STAMP | | |

TYPICAL WOOD DETAILS



MASONRY VENEER ANCHORS WITH STUD BACKING NTS 12

SPFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

PROJECT # 262023.015

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REVISION SCHEDULE

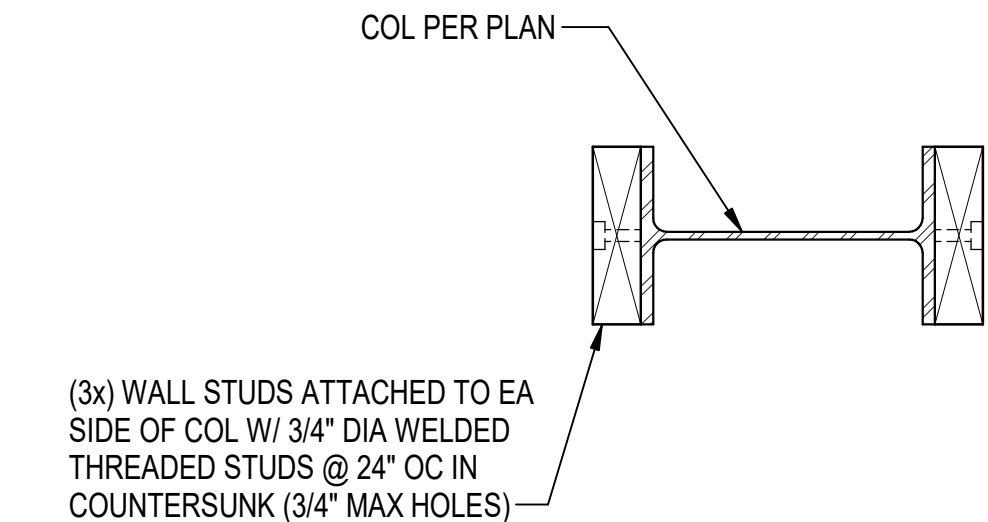
| NO. | DATE | DESCRIPTION |
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AHJ APPROVAL STAMP

WOOD DETAILS AND SECTIONS

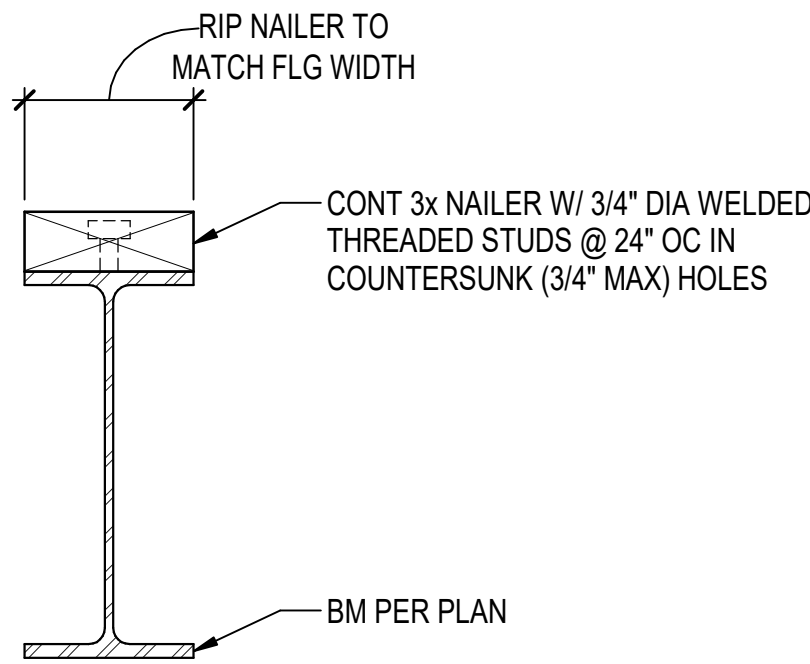
SHEET #

S50.55



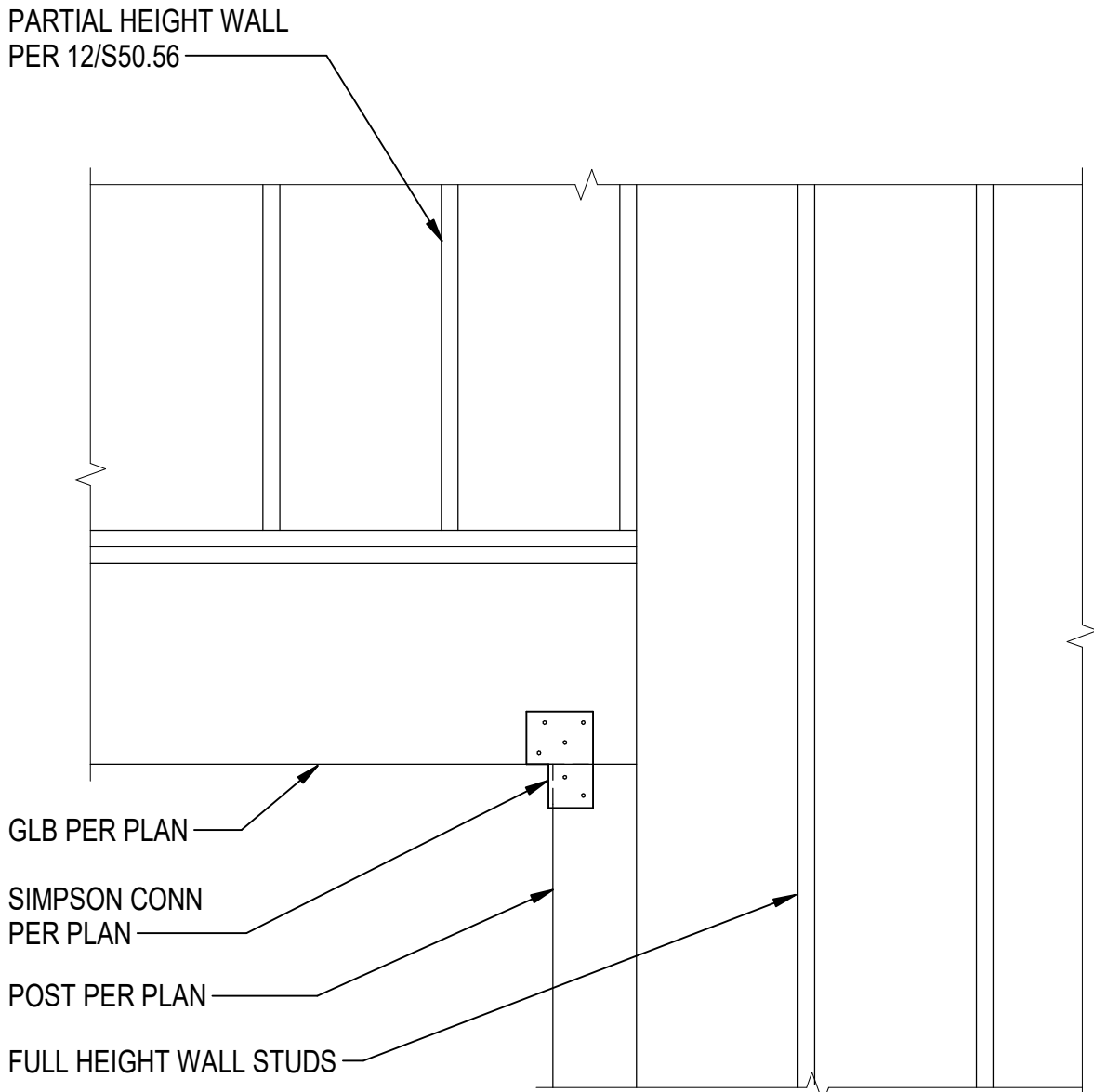
NOTE:
1. SEE ARCHITECT FOR STEEL FINISH PLATES NOT SHOWN.

TYPICAL STUDS TO STEEL COLUMN CONNECTION
NTS 6



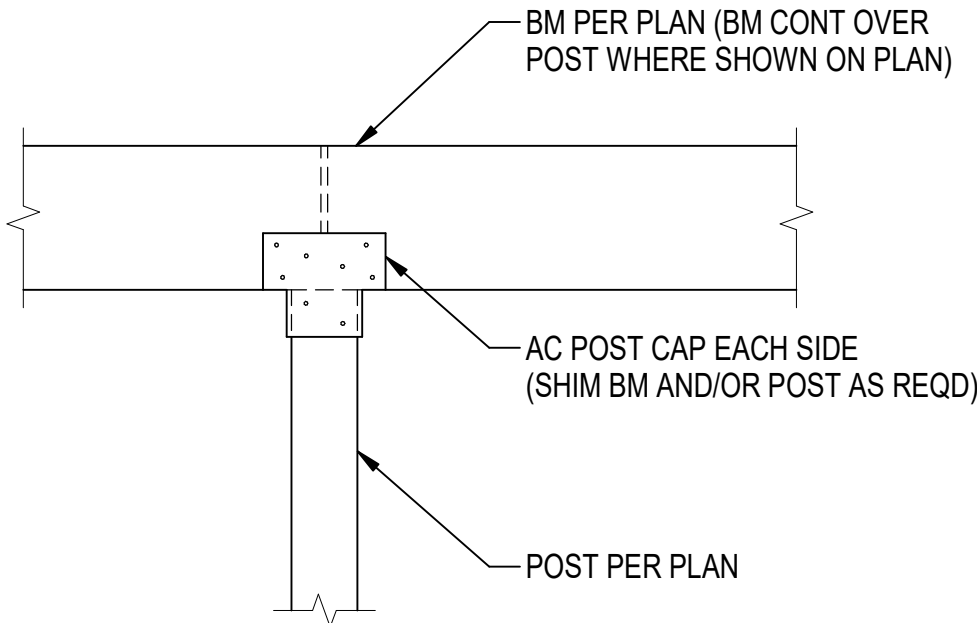
NOTE:
1. COORDINATE REQUIRED NAILER LOCATIONS WITH ARCHITECT. CONTINUOUS NAILER MAY BE REQUIRED ON BOTTOM OF STEEL BEAM.
2. SEE ARCHITECT FOR STEEL FINISH PLATES NOT SHOWN.

TYPICAL NAILER ON STEEL BEAM
NTS 7

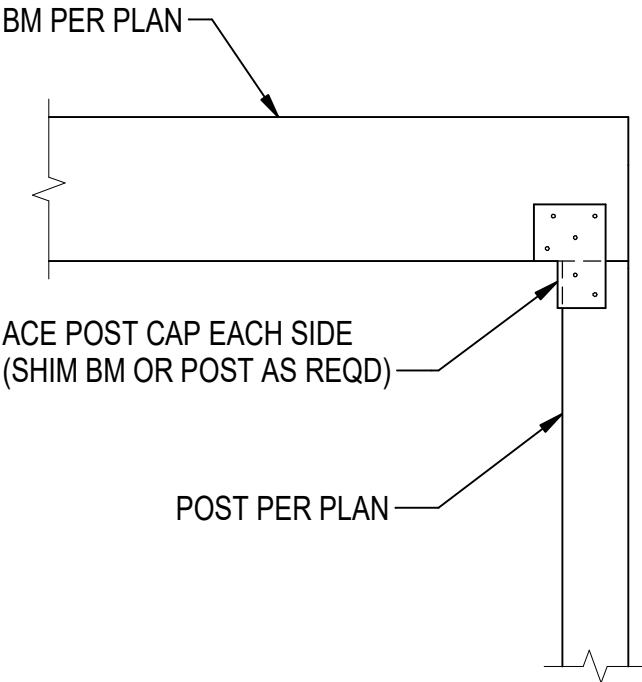


NOTE:
1. SEE 11/S50.51 FOR PARAPET FRAMING REQUIREMENTS. PARAPET ABOVE NOT SHOWN.

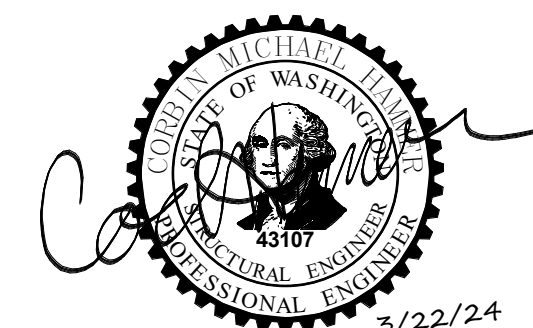
WALL AT BEAM
NTS 8



TYPICAL BEAM-TO-POST CONNECTION
NTS 11



TYPICAL BEAM-TO-POST CONNECTION
NTS 12



SPFR 31 - SHOP ADDITION

SNOHOMISH REGIONAL FIRE & RESCUE

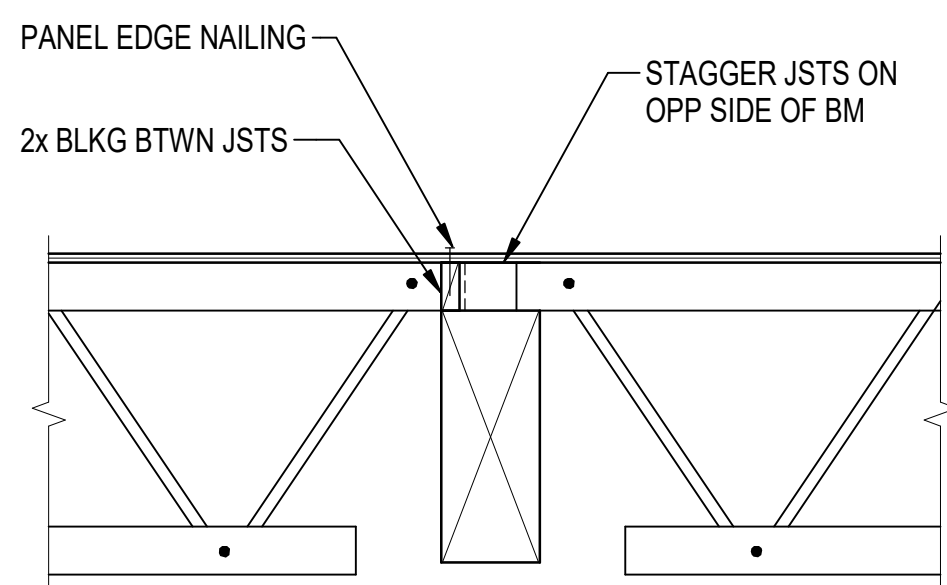
163 VILLAGE COURT
MONROE, WA 98272

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ROOF DETAILS

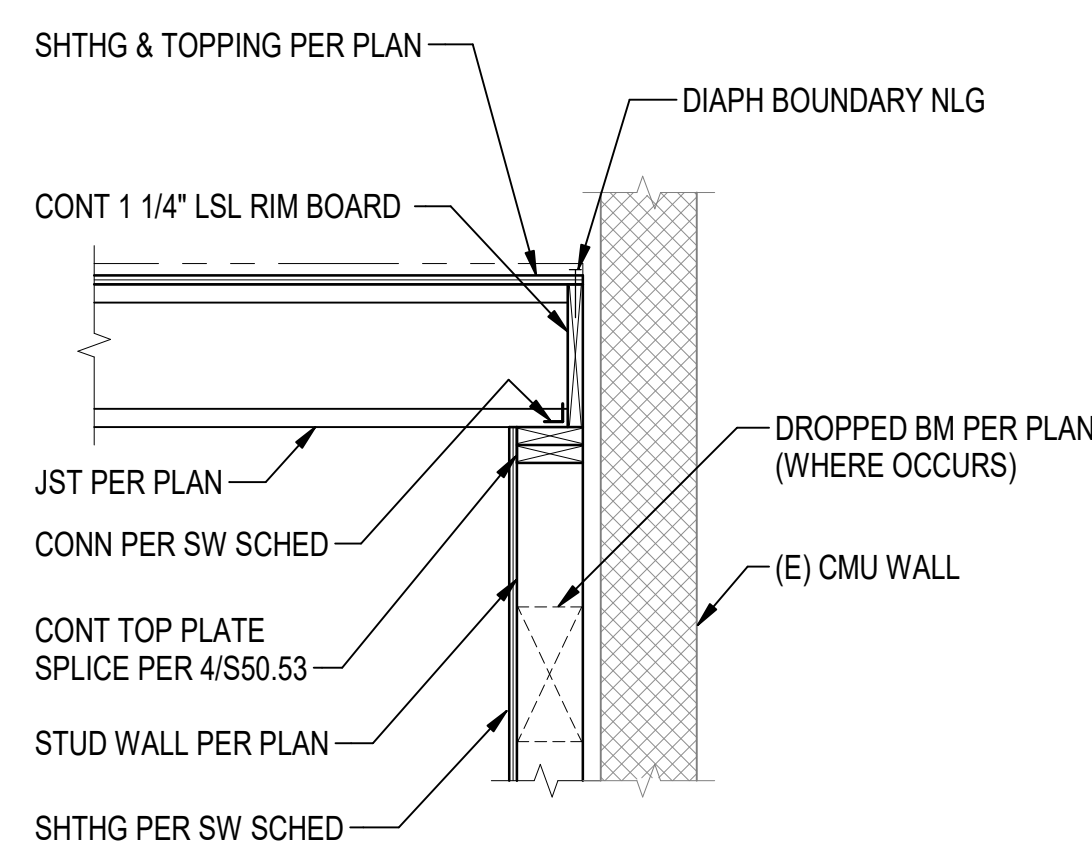
SHEET #

\$50.56

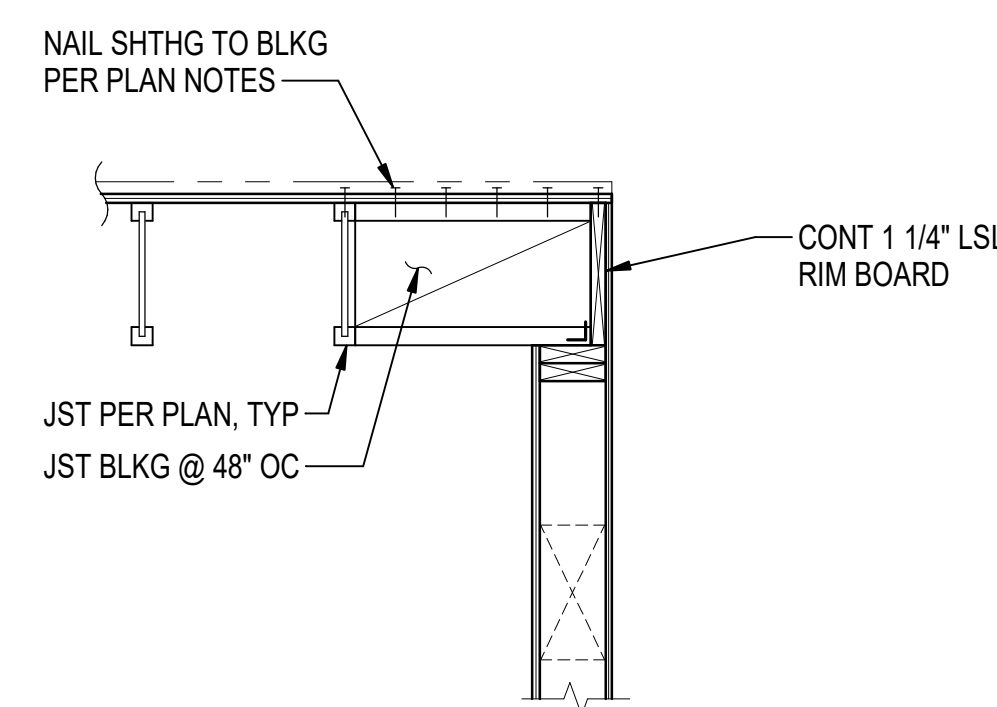


1. MATCH EXISTING ROOF SLOPE. SEE ARCH FOR ADDITIONAL INFORMATION

SECTION AT EXISTING GLULAM ^{NTS} 2

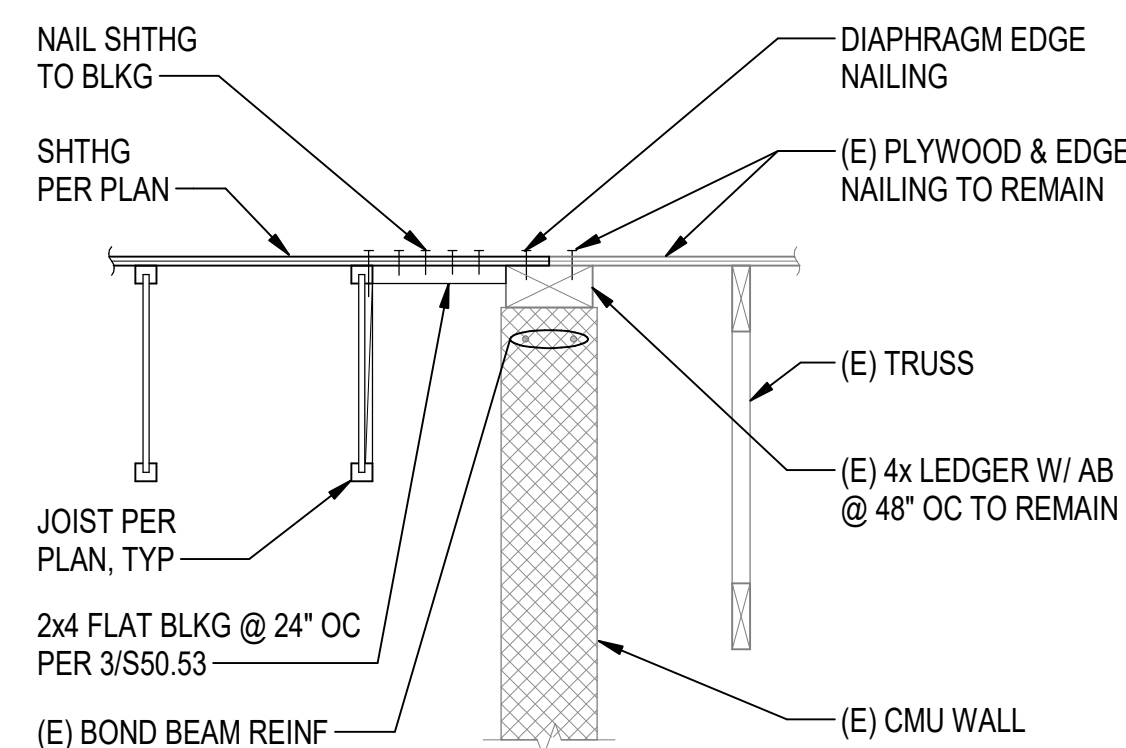


JOIST BEARING ON WALL ^{NTS} 3

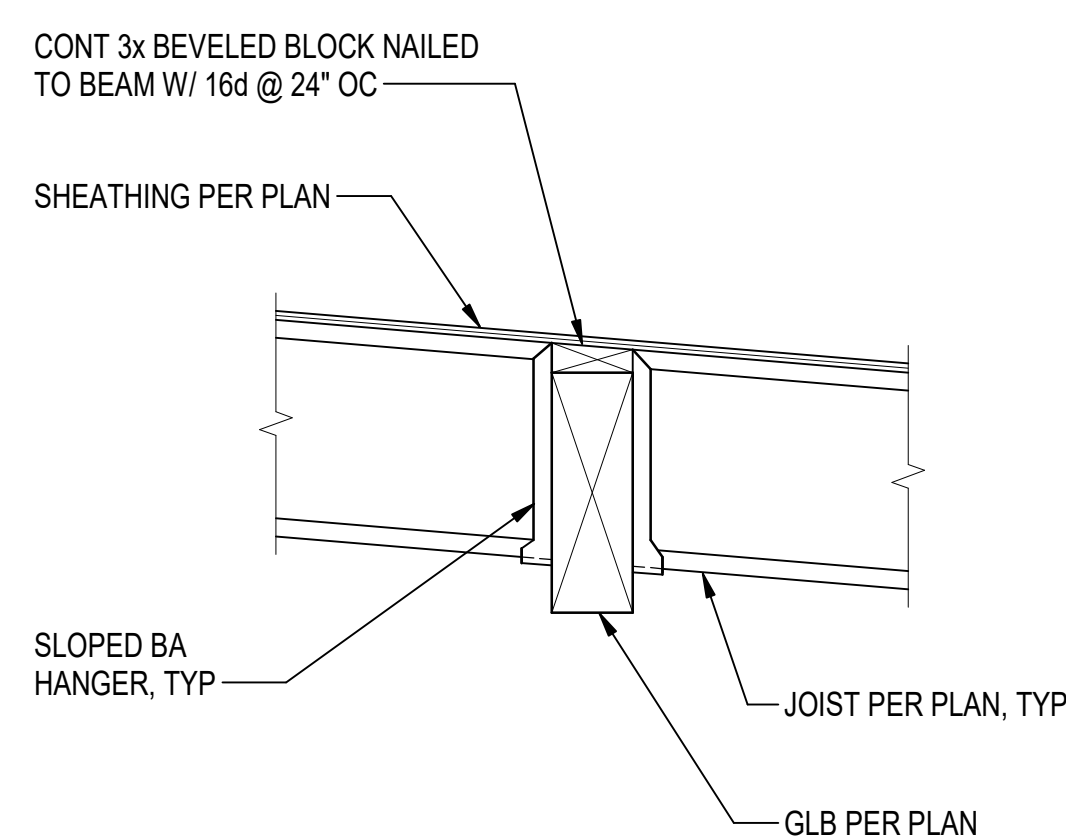


1. FOR ADDITIONAL INFORMATION NOT SHOWN SEE 3/S50.56

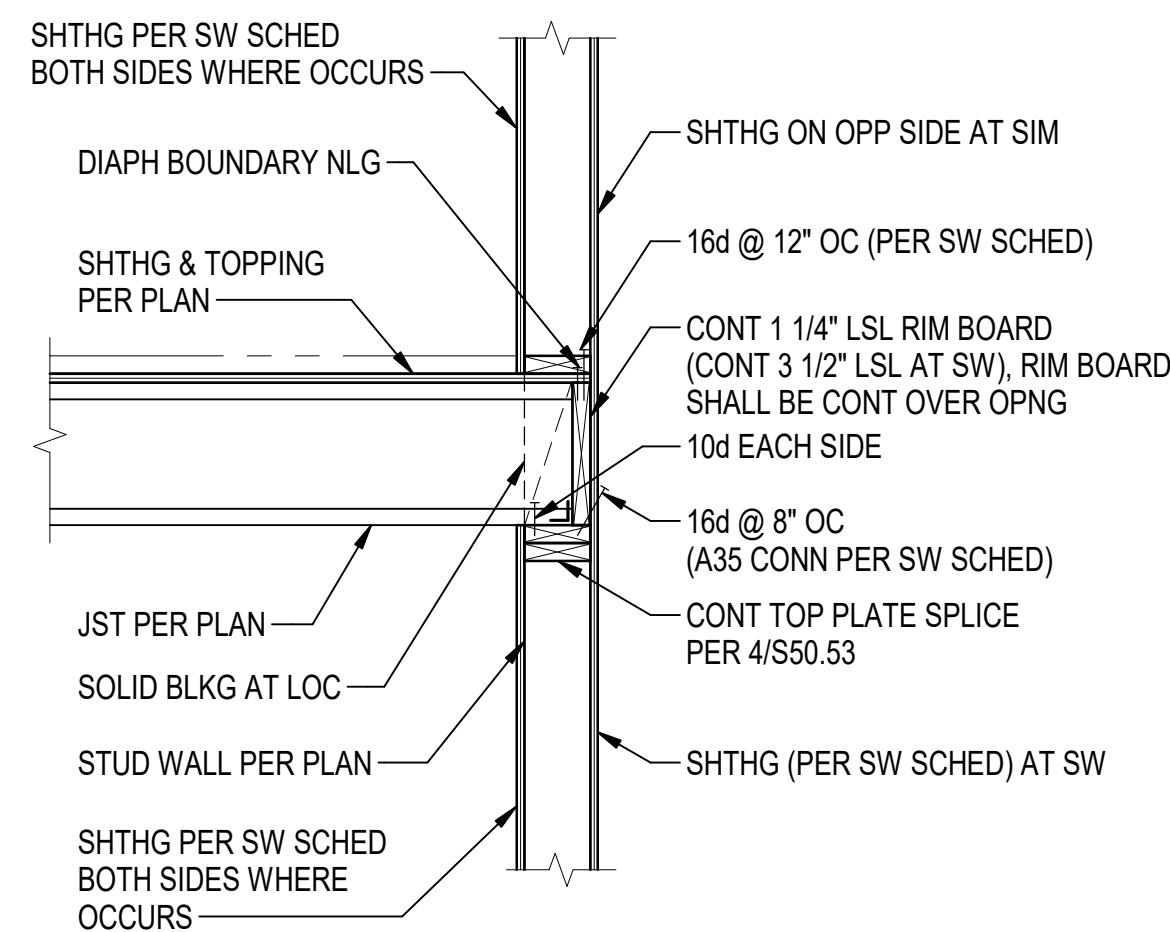
JOISTS PARALLEL TO WALL 4



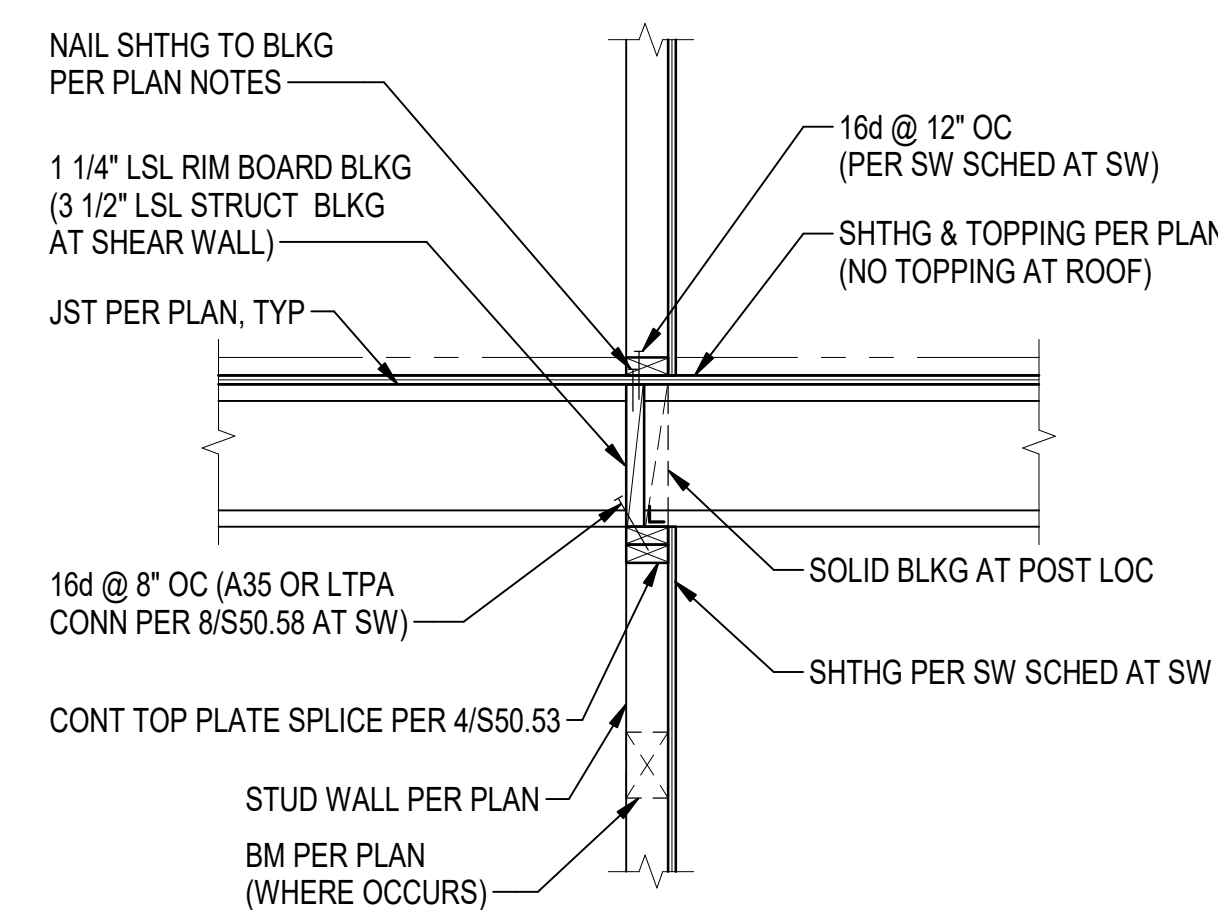
WALL SECTION **5**
NTS



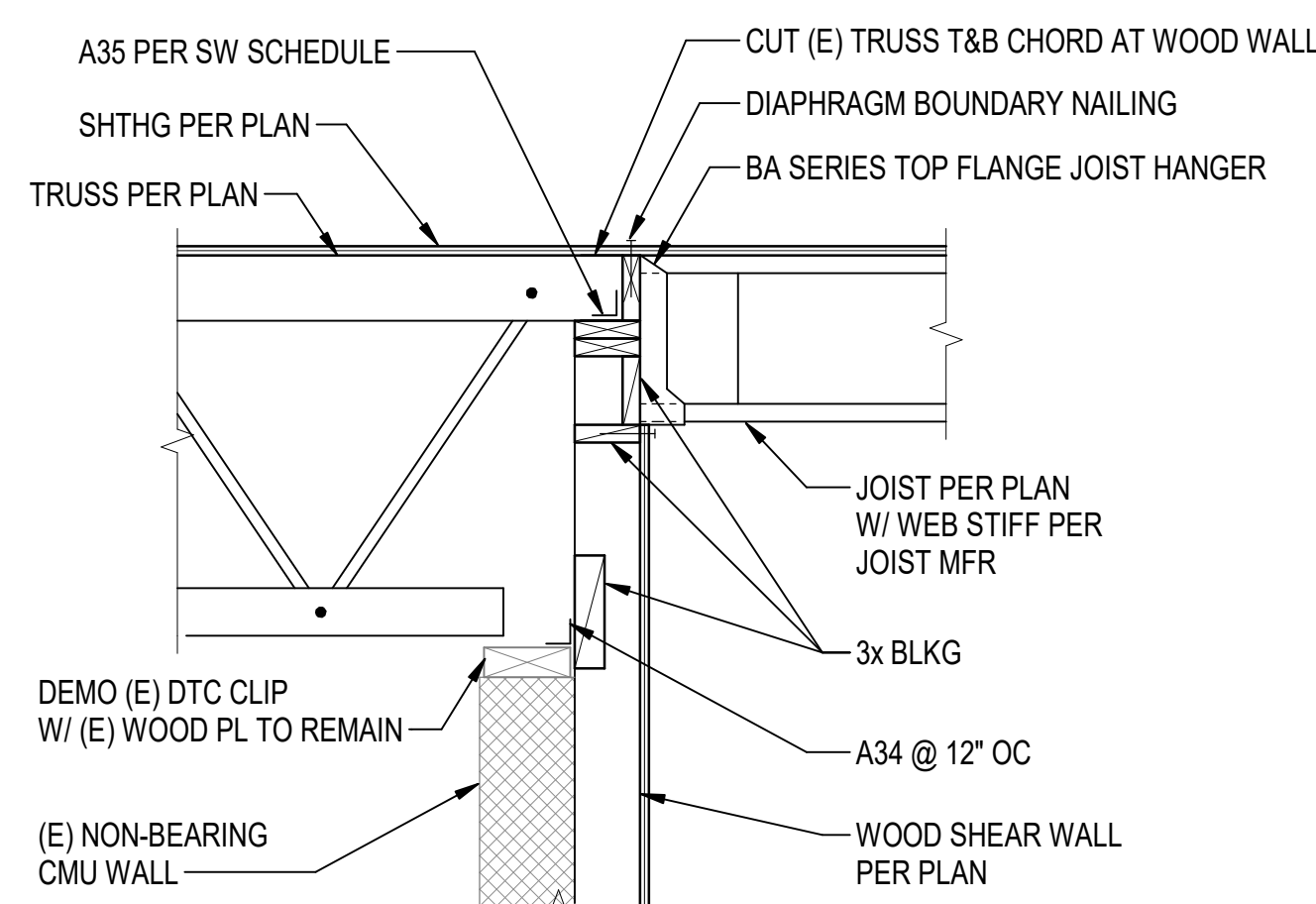
ROOF SECTION **6**
NTS



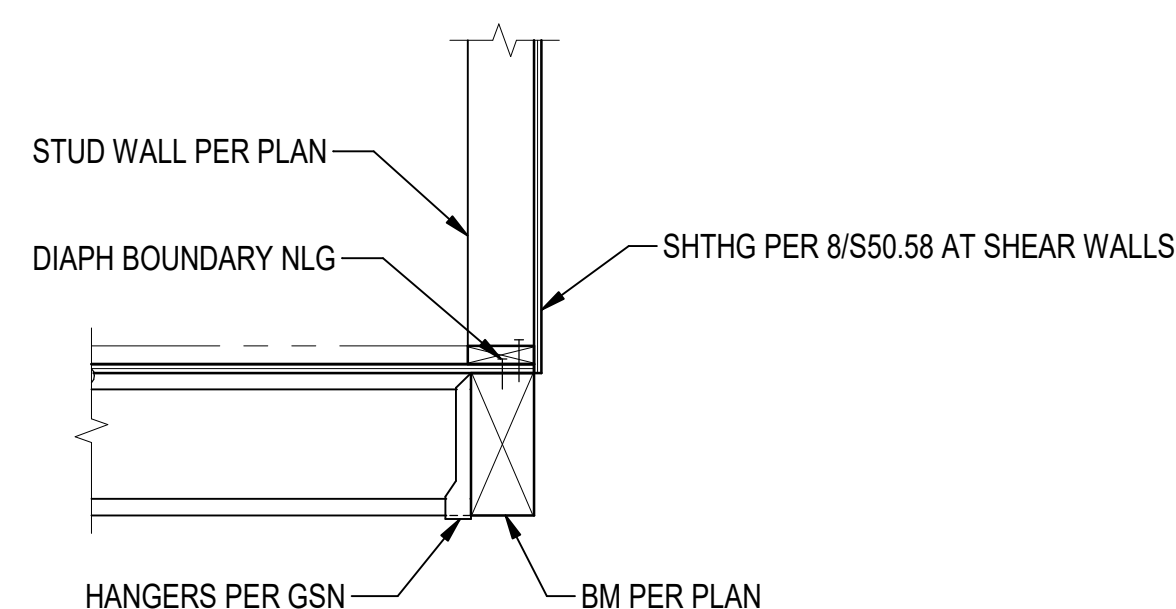
JOISTS BEARING ON EXTERIOR WALL 7



JOISTS AT INTERIOR BEARING WALL

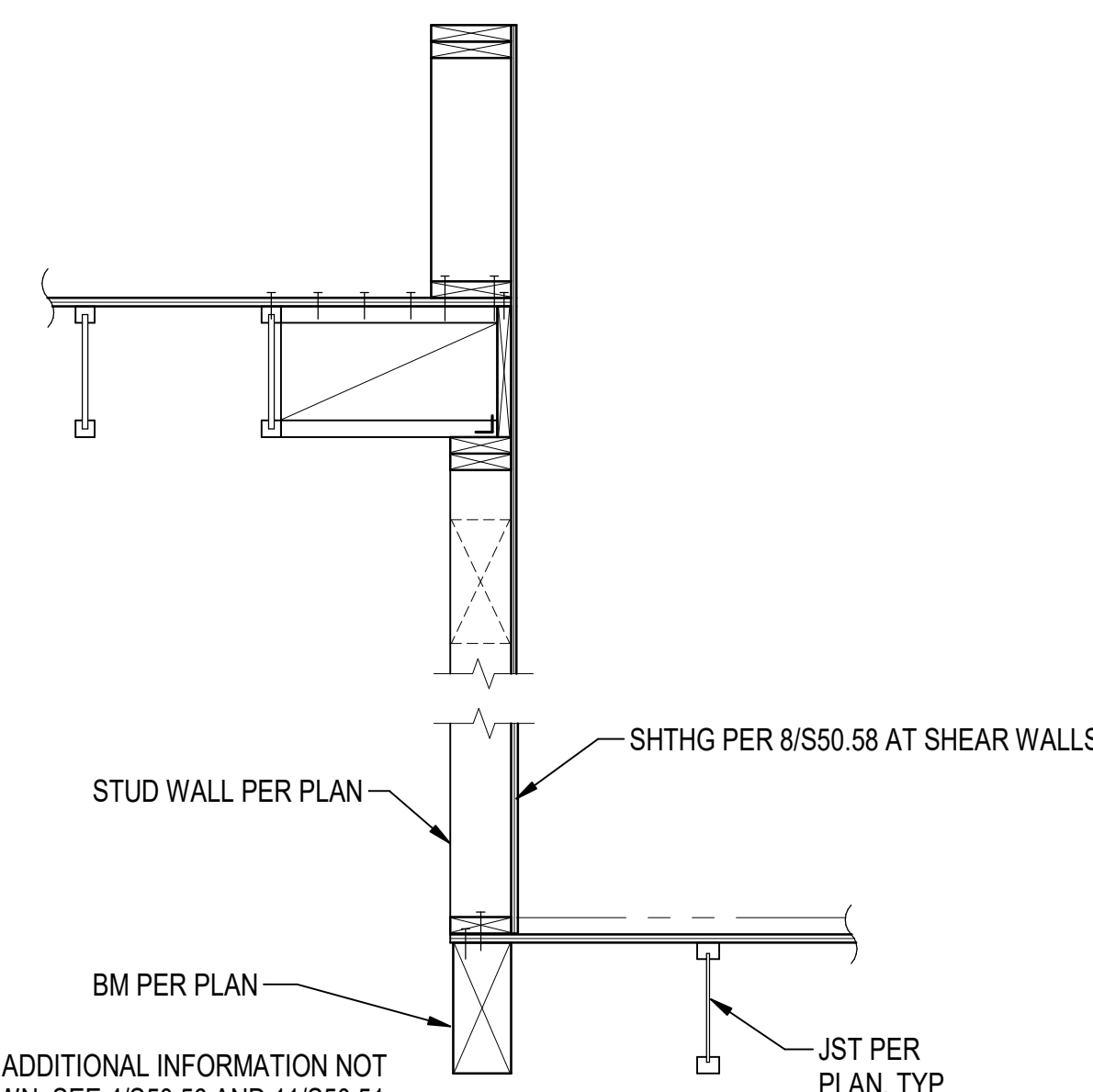


1. SEE 8/S50.56 FOR ADDITIONAL INFORMATION.
2. MATCH (E) ROOF SLOPE PER ARCHIECTURAL.

WALL SECTION 9
NTS

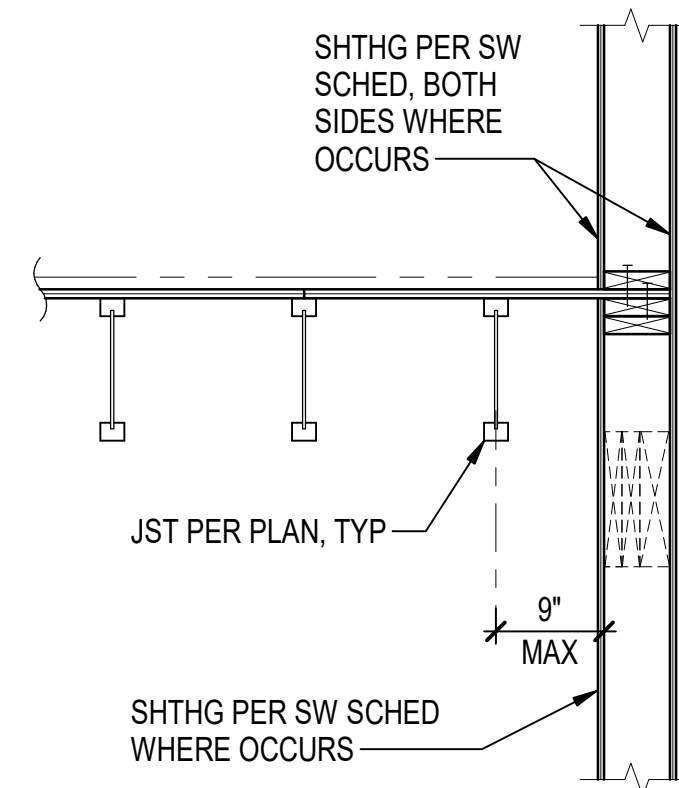
1. FOR ADDITIONAL INFORMATION NOT SHOWN SEE 7/S50.56.

FLUSH BEAM AT FLOOR EDGE 11
NTS



1. FOR ADDITIONAL INFORMATION NOT SHOWN, SEE 4/S50.56 AND 11/S50.51.
2. VENEER NOT SHOWN. SEE SHEET S50.57 FOR BRICK VENEER AND ARCHITECT AND 9/S50.07 FOR WOOD AND METAL VENEER/SIDING.

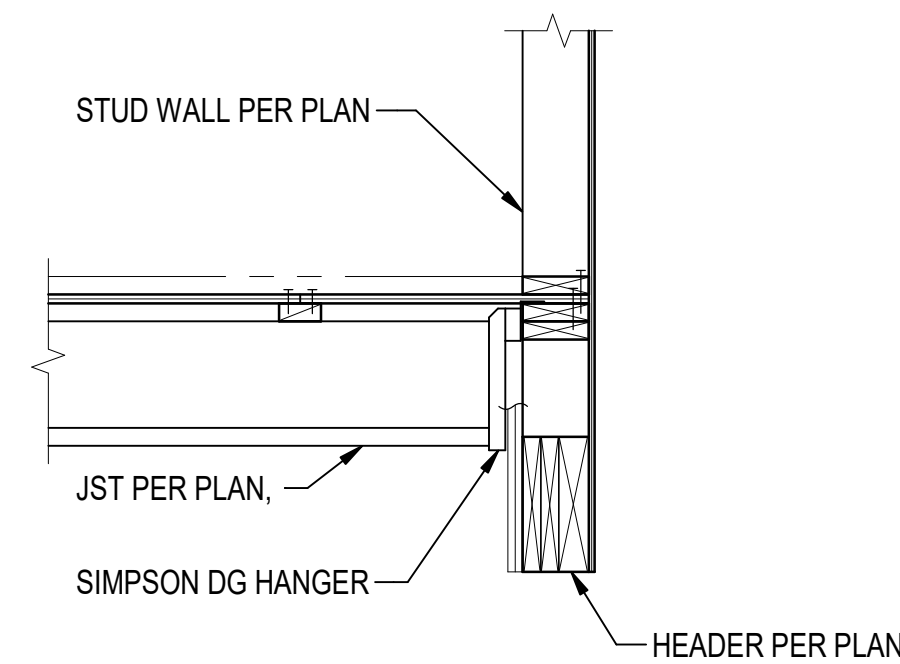
BEAM PARALLEL TO JOISTS 12
NTS



NOTE:

1. FOR ADDITIONAL INFORMATION SEE 4/S50.57.

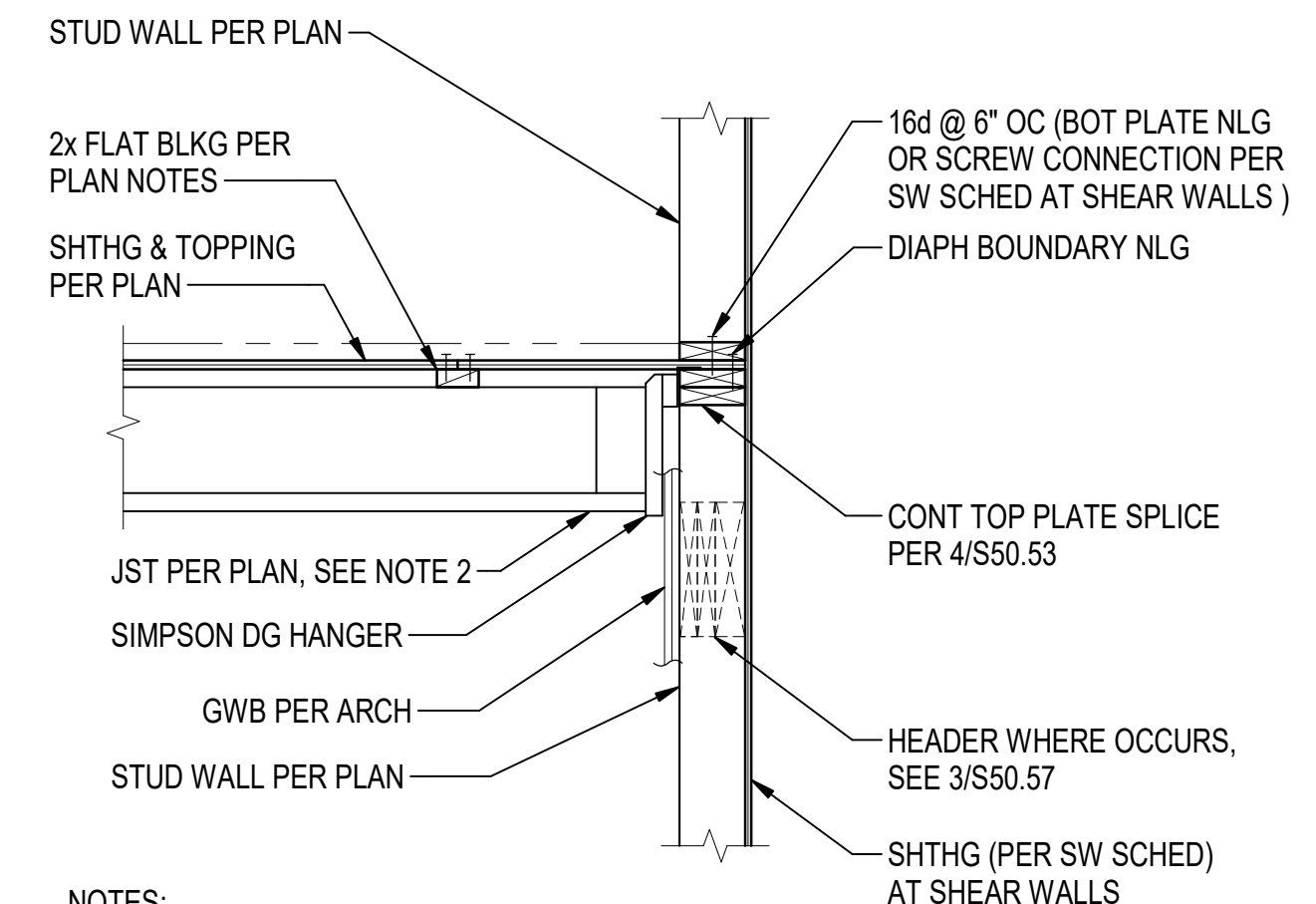
JOISTS PARALLEL TO EXTERIOR WALL NTS **2**



NOTES:

1. FOR ADDITIONAL INFORMATION SEE 4/S50.57.

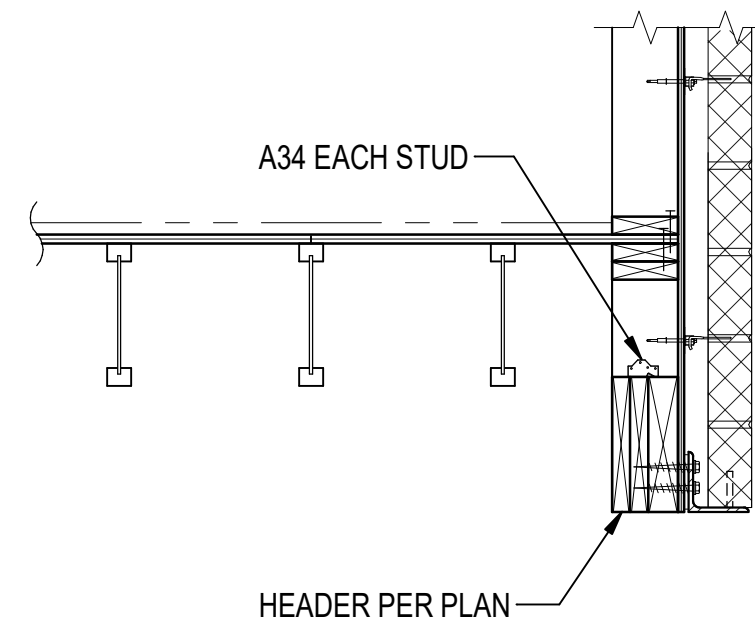
HEADER AT EXTERIOR WALL PERPENDICULAR 3
NTS



NOTES:

1. COORDINATE HEIGHT OF BRICK VENEER WITH ARCHITECT. SEE ARCHITECT AND 9/S50.07 FOR WOOD AND METAL VENEER/SIDING REQUIREMENTS.

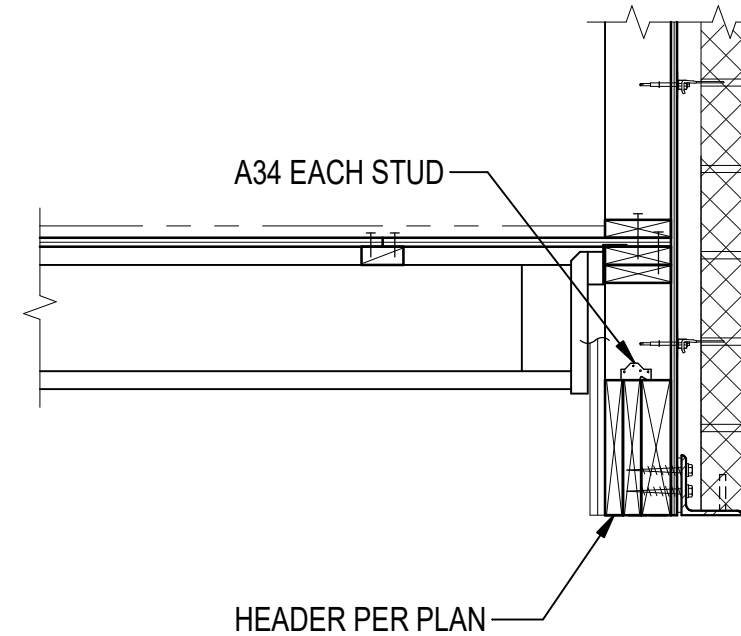
JOISTS BEARING AT EXTERIOR WALL ⁴_{NTS}



NOTES:

1. FOR ADDITIONAL INFORMATION SEE 2/S50.57 AND 8/S50.57.
2. HEIGHT OF BRICK VENEER SHALL NOT EXCEED 10 FEET ABOVE STEEL L5x5 SUPPORT.

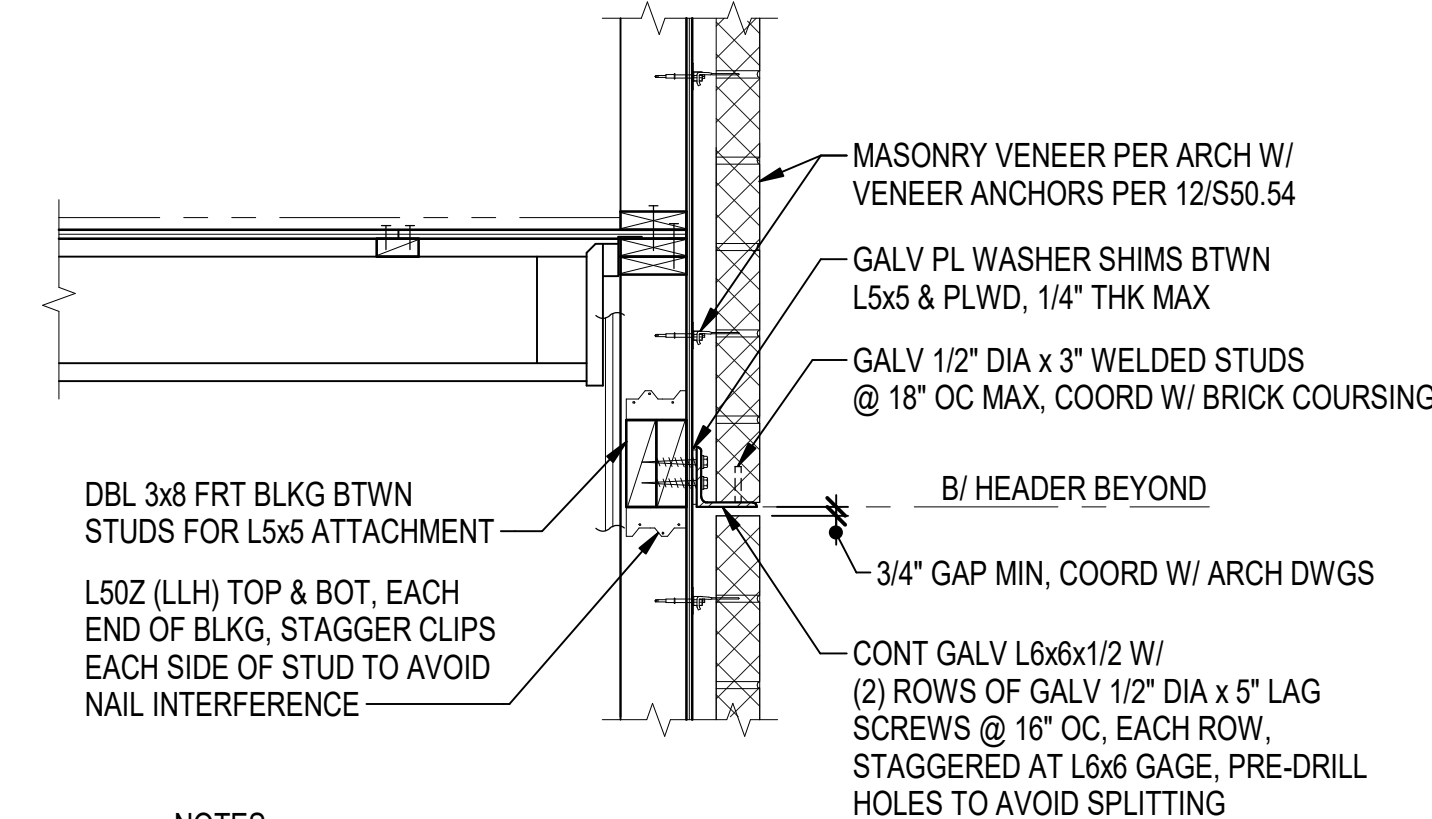
HEADER AT EXTERIOR
WALL PARALLEL WITH BRICK VENEER **5**
NTS



NOTES:

1. FOR ADDITIONAL INFORMATION SEE 2/S50.57 AND 8/S50.57.
2. HEIGHT OF BRICK VENEER SHALL NOT EXCEED 10 FEET ABOVE STEEL L5x5 SUPPORT.

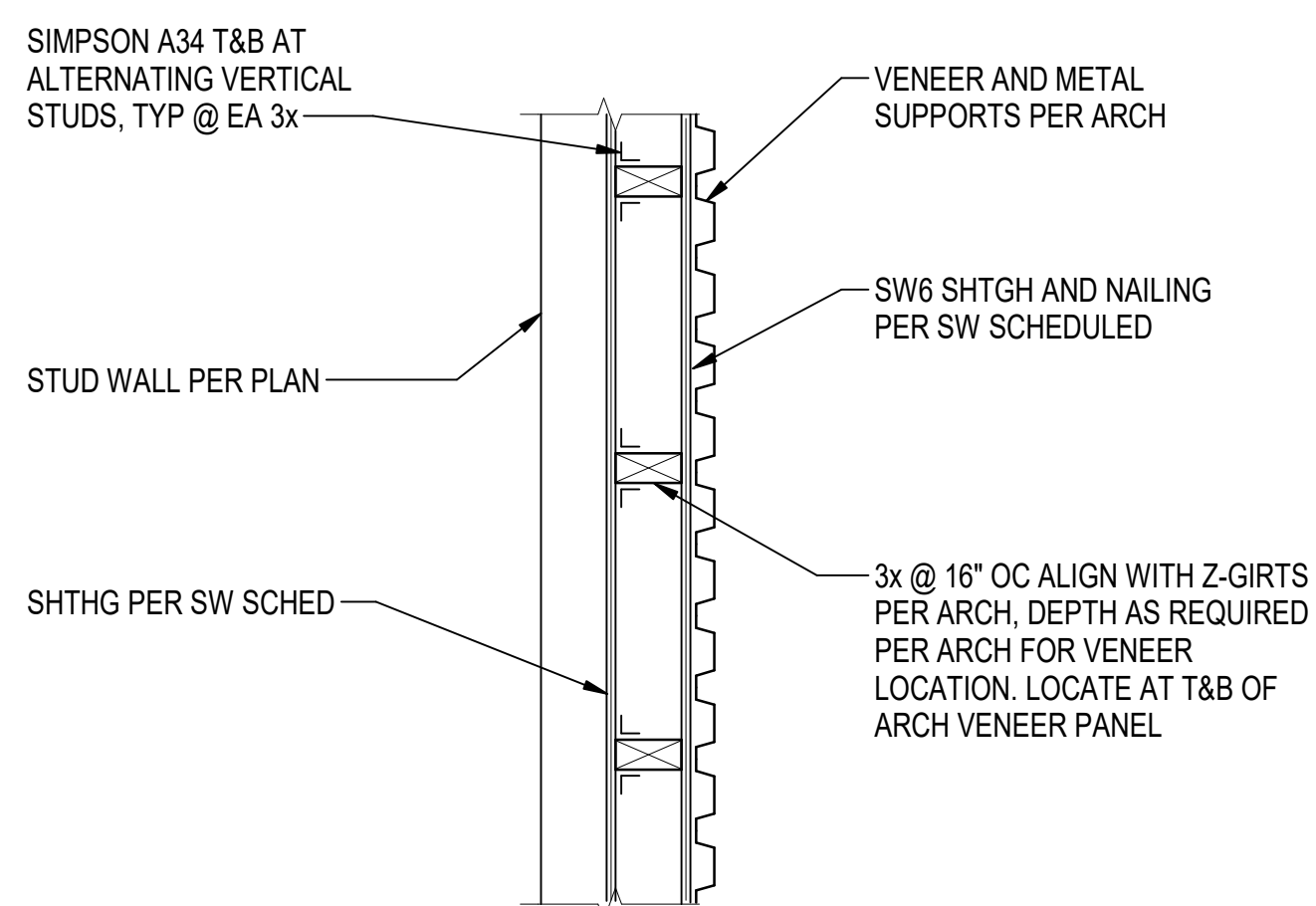
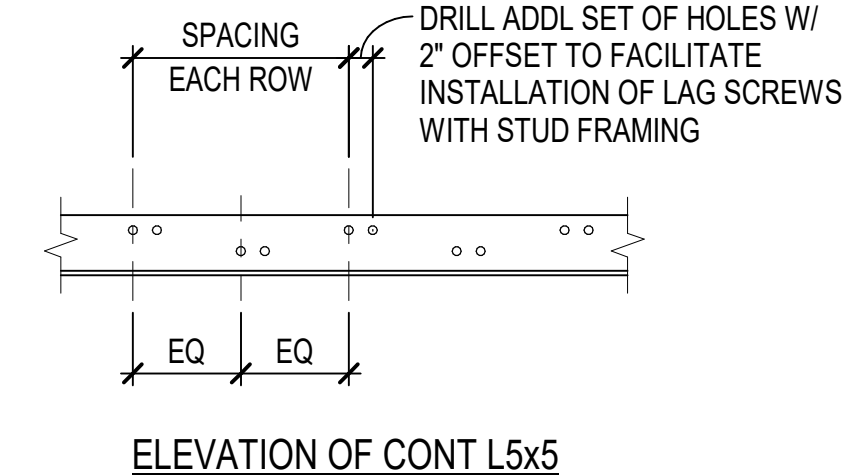
WALL PERPENDICULAR WITH BRICK VENEER



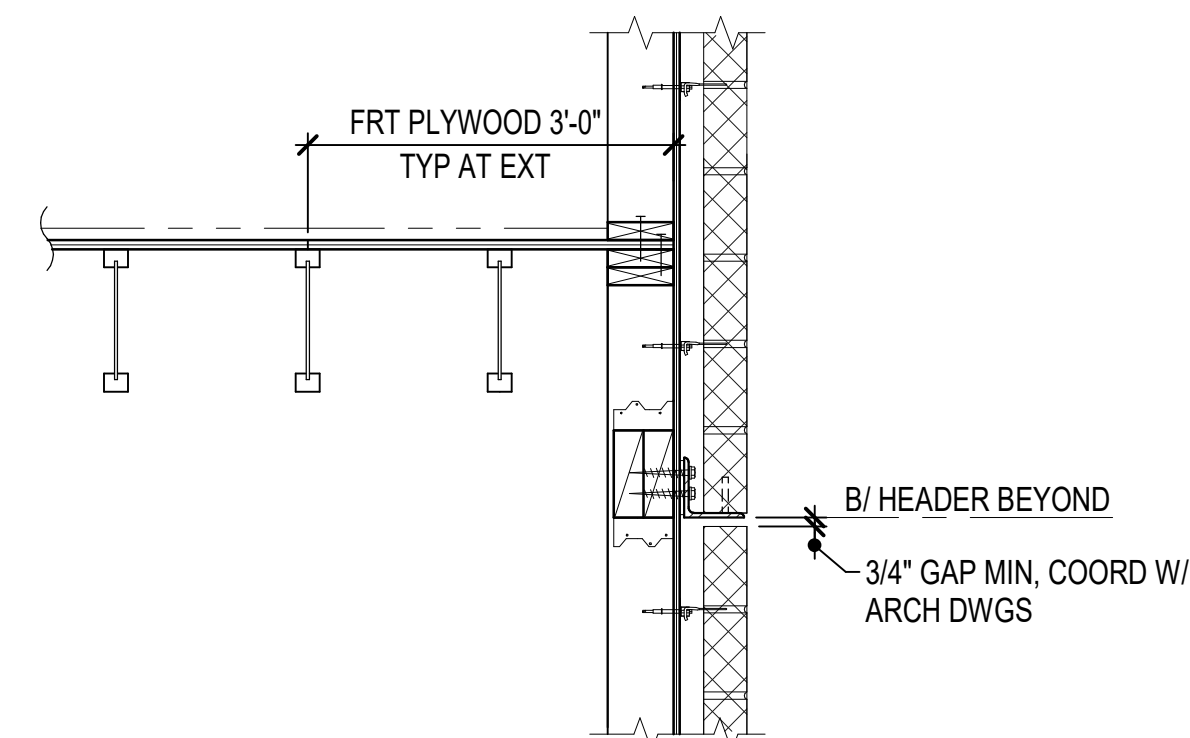
NOTES:

1. FOR ADDITIONAL INFORMATION SEE 4/S50.57.
2. DO NOT FIELD-CUT OR FIELD-DRILL GALV L6x6.
3. HEIGHT OF BRICK VENEER SHALL NOT EXCEED 10 FEET ABOVE STEEL L6x6 SUPPORT.
4. COORDINATE HEIGHT OF BRICK VENEER WITH ARCHITECT. SEE ARCHITECT AND 9/S50.07 FOR WOOD AND METAL VENEER/SIDING REQUIREMENTS.

JOISTS AT EXTERIOR WALL WITH BRICK VENEER 8



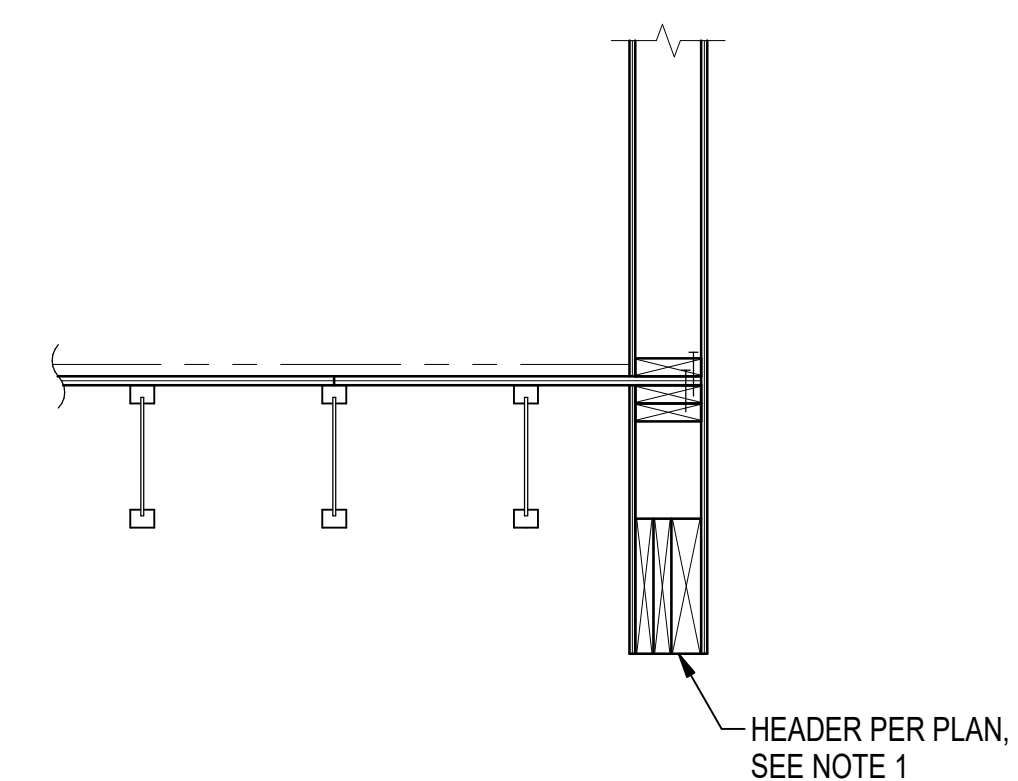
ARCHITECTURAL VENEER FINISH SUPPORT 9



NOTES

1. FOR ADDITIONAL INFORMATION SEE 4/S50.57 AND 8/S50.57.
2. COORDINATE HEIGHT OF BRICK VENEER WITH ARCHITECT. SEE ARCHITECT AND 9/S50.07 FOR WOOD AND METAL VENEER/SIDING REQUIREMENTS.

JOISTS PARALLEL TO EXT WALL WITH BRICK VENEER NTS 10

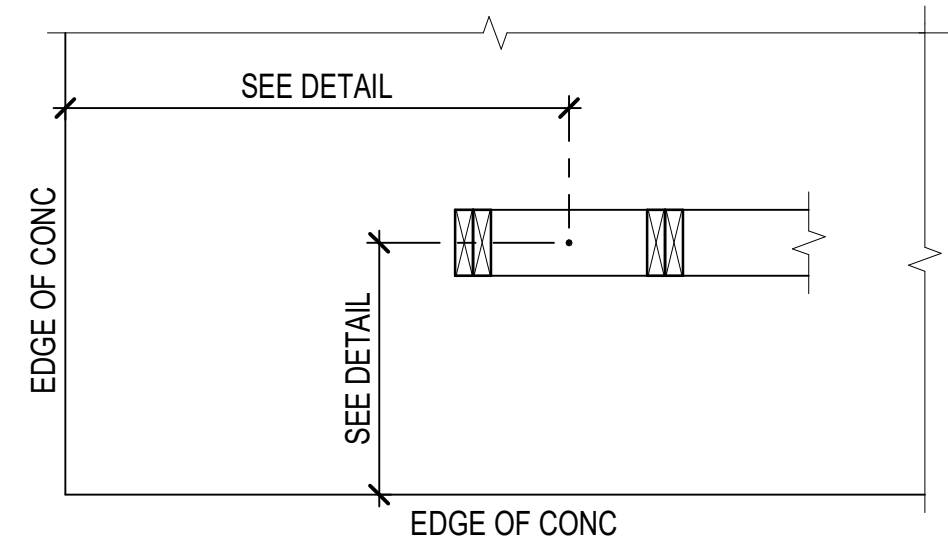


NOTE:

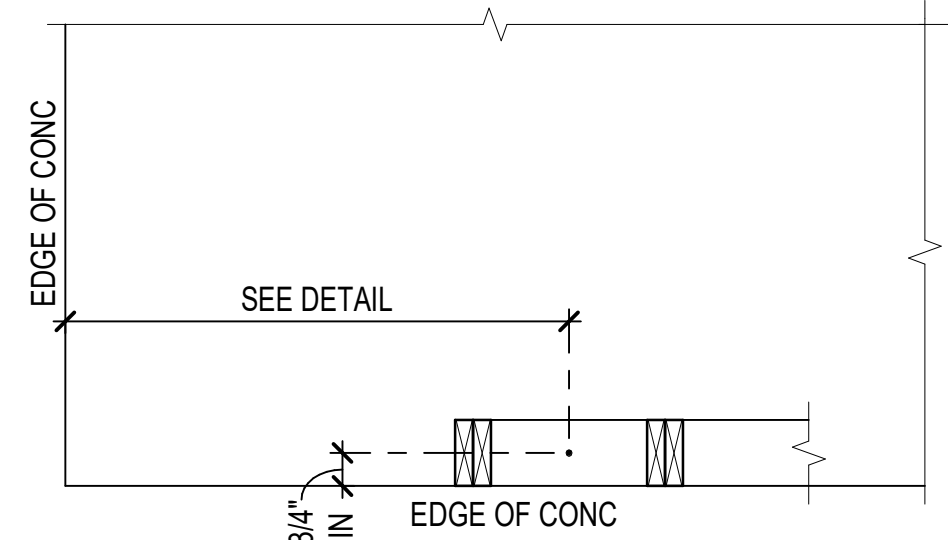
1. FOR ADDITIONAL INFORMATION SEE 2/S50.57 AND 4/S50.57.

HEADER AT EXTERIOR WALL PARALLEL ^{NTS} 12

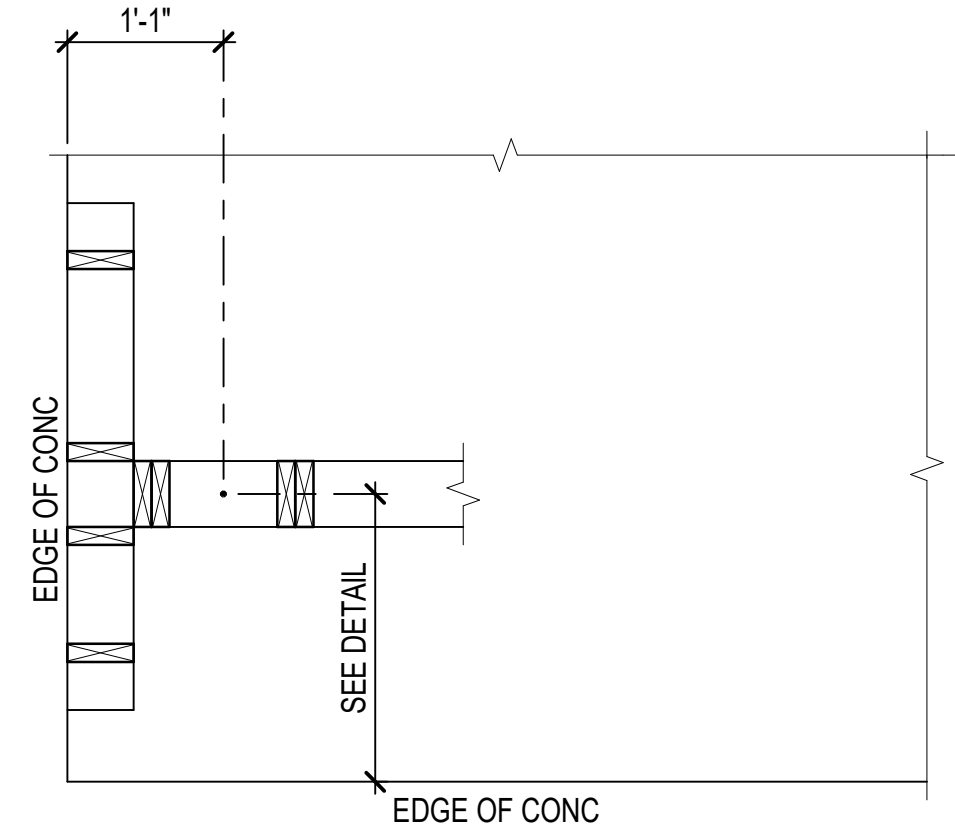
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TYPICAL MID SLAB PARTIAL PLAN DETAIL



TYPICAL EDGE OF SLAB PARTIAL PLAN DETAIL

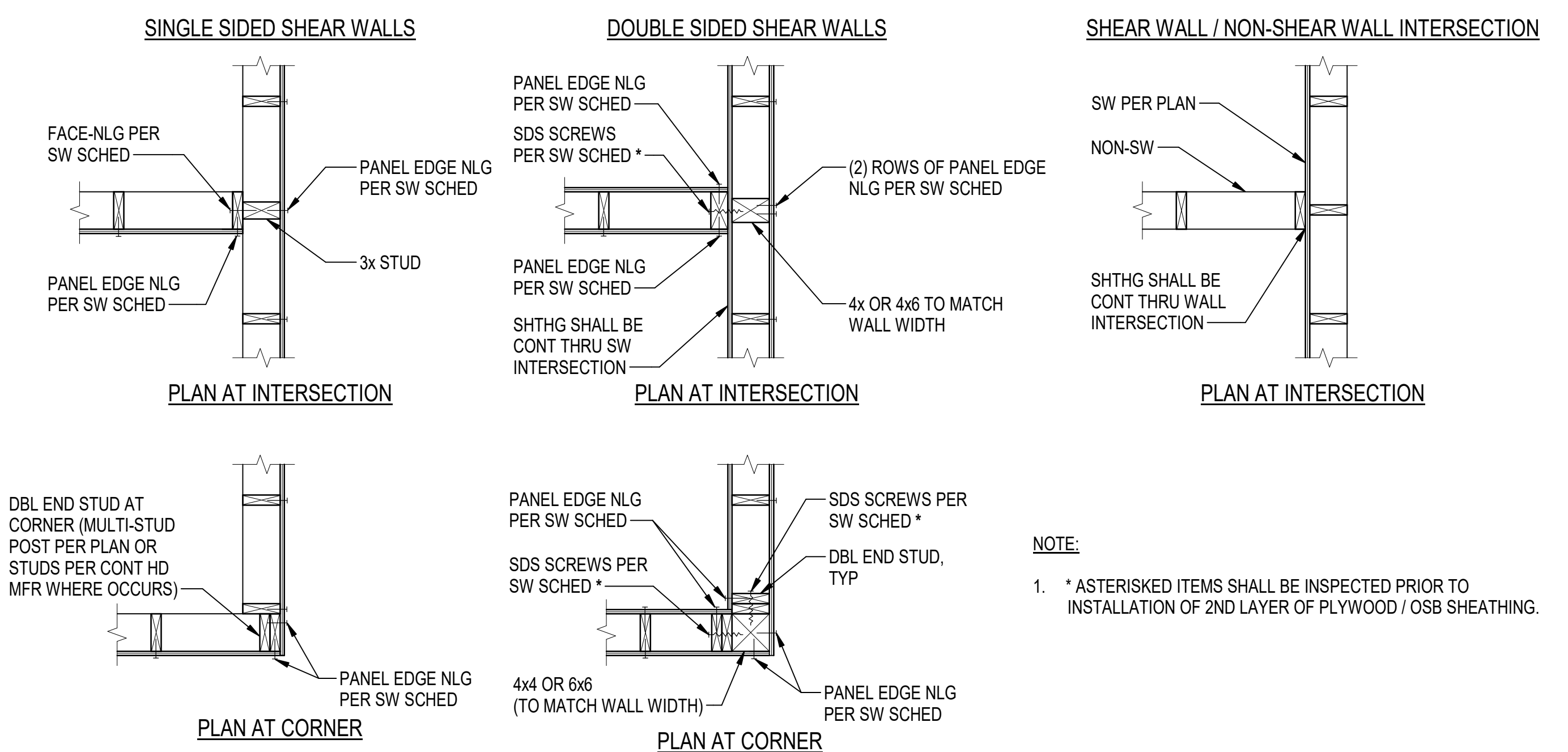


TYPICAL WALL PERPENDICULAR TO SLAB EDGE

TYPICAL PLAN LAYOUTS OF HOLDOWN ANCHORS

NTS

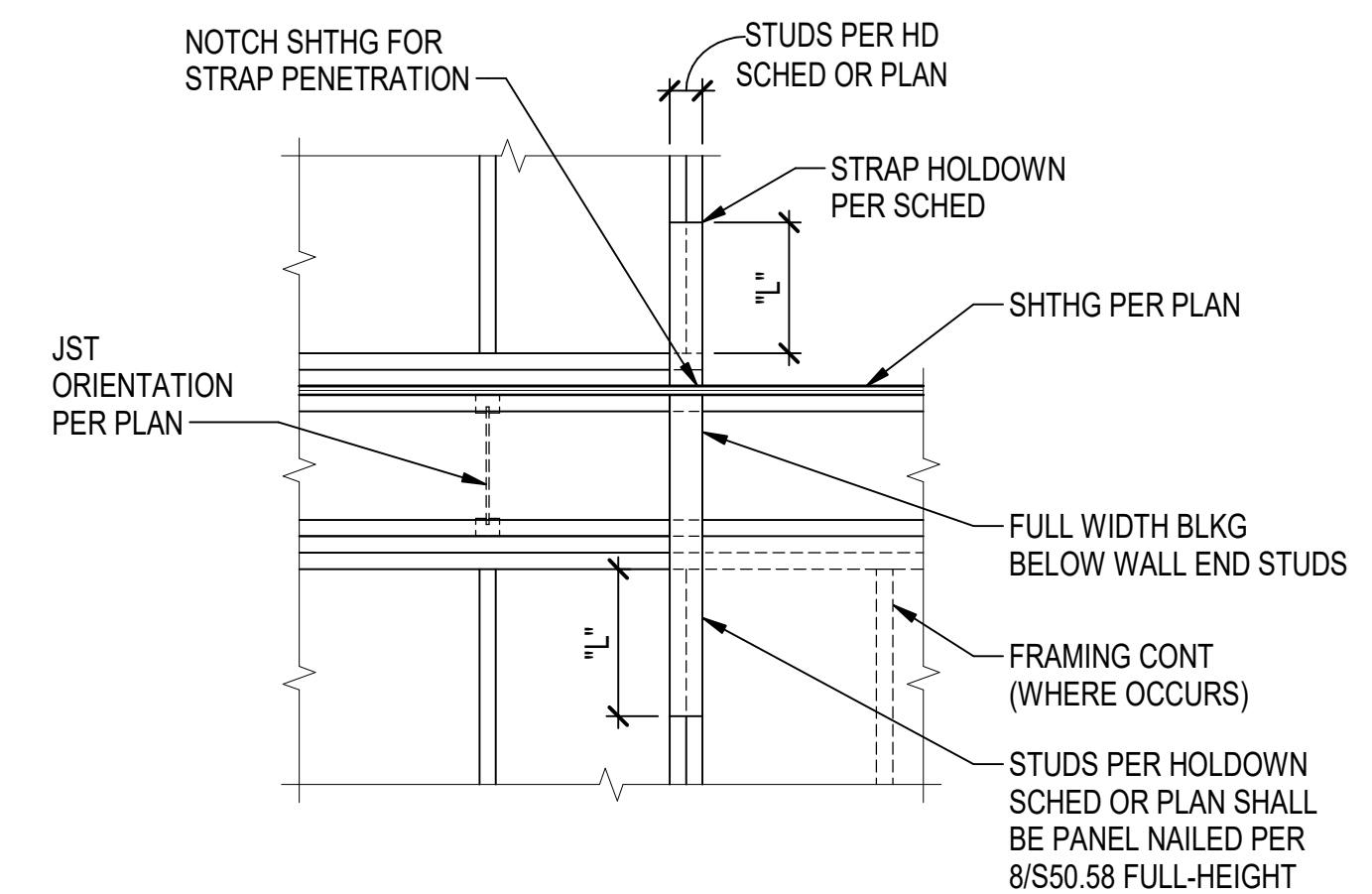
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SHEAR WALL INTERSECTION DETAIL

NTS

4

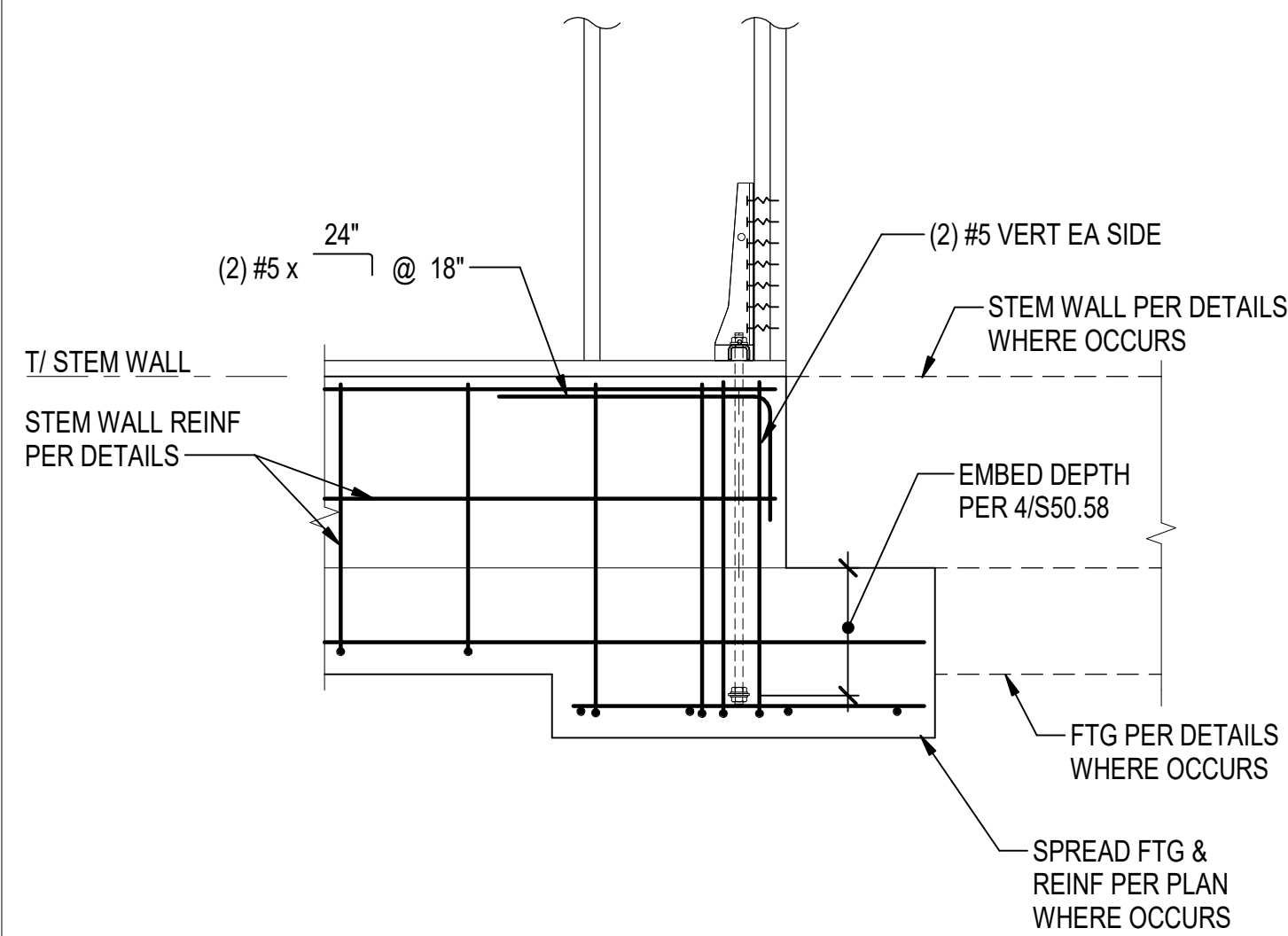


| STRAP LENGTH SCHEDULE | | |
|-----------------------|-------|-----------------|
| STRAP TYPE | "L" | NAIL SPACING |
| CMSTC16E | 4'-0" | 3" OC, EACH ROW |

FLOOR-TO-FLOOR STRAP HOLDOWN

NTS

8



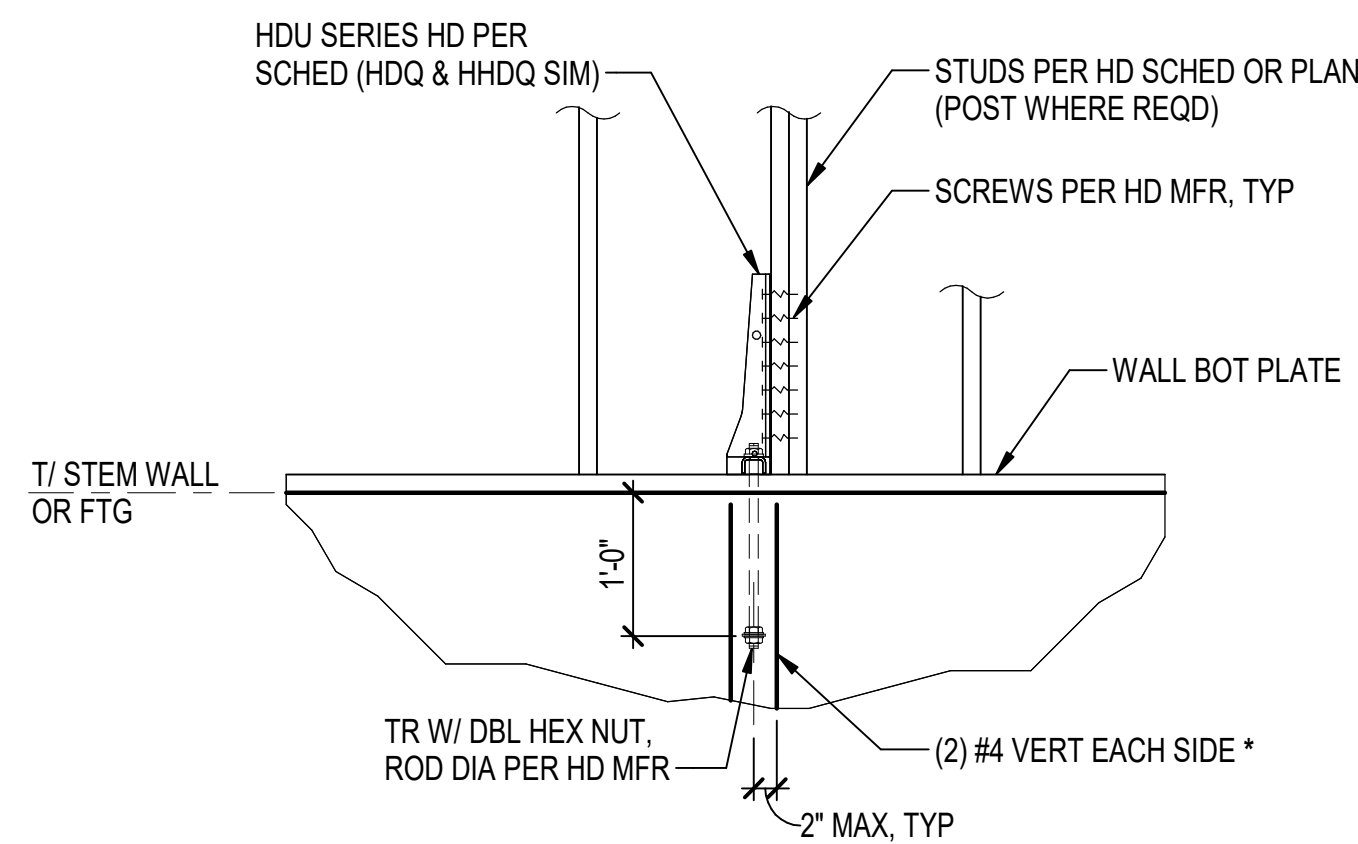
NOTE:

1. FOR ADDITIONAL INFORMATION NOT SHOWN SEE 11/S50.59.

HOLDOWN DETAIL

NTS

10



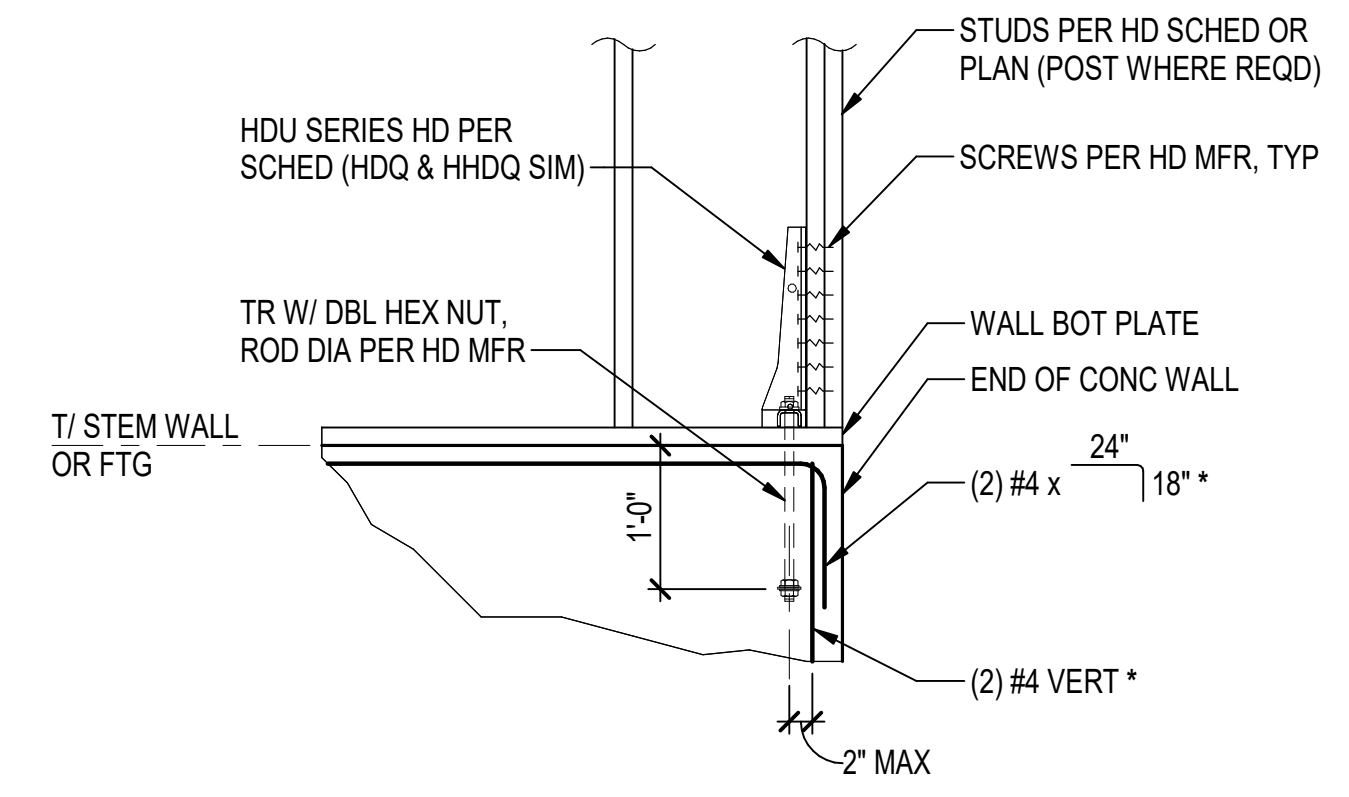
NOTE:

1. * REINFORCING SHOWN IS IN ADDITION TO REINFORCING REQUIRED BY OTHER FOUNDATION DETAILS.

HOLDOWN MID-WALL CONDITION

NTS

11



NOTE:

1. * REINFORCING SHOWN IS IN ADDITION TO REINFORCING REQUIRED BY OTHER FOUNDATION DETAILS.

HOLDOWN END / CORNER CONDITION

NTS

12

| REVISION SCHEDULE | |
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WOOD SHEARWALL DETAILS

| HYDRAONIC SYSTEM LABELS | | REFERENCE SYMBOLS | |
|----------------------------------|--|---------------------|---|
| | PIPE BREAK (CONTINUATION) | | DETAIL NUMBER SHEET |
| | HYDRAONIC SUPPLY | | FLAG NOTE |
| | HYDRAONIC RETURN | | REVISION TAG |
| | DIRECTION OF FLOW | | MECHANICAL EQUIPMENT |
| | CAP | | DIFFUSER/GRILLE TYPE CFM |
| | HEAT TRACED PIPING | | SECTION NUMBER SHEET NUMBER |
| HYDRAONIC VALVES AND SPECIALTIES | | LIFE SAFETY SYMBOLS | |
| | 2-WAY ELECTRIC CONTROL VALVE FAIL OPEN F.O. | | CEILING RADIATION DAMPER |
| | 2-WAY ELECTRIC CONTROL VALVE FAIL CLOSED F.C. | | COMBINATION SMOKE/FIRE DAMPER |
| | 3-WAY ELECTRIC CONTROL VALVE | | HORIZONTAL SMOKE DAMPER |
| | 4-WAY CONTROL VALVE | | FIRE DAMPER |
| DUCTWORK LABELS | | CONTROL SYMBOLS | |
| | INTERNALLY LINED DUCT | | VOLUME DAMPER |
| | HIDDEN DUCT | | MOTORIZED CONTROL DAMPER |
| | DUCT (1ST DIMENSION SIDE SHOWN, 2ND DIMENSION OTHER SIDE) | | THERMOSTAT IN DUCT |
| | REMOVE DUCT, PIPE OR MECH. EQUIPMENT | | PRESSURE SENSOR IN DUCT |
| | FLEX DUCT | | REMOTE OPERATED VOLUME DAMPER |
| | RECTANGULAR SUPPLY DUCT OUT OF PAGE | | BACKDRAFT DAMPER |
| | RECTANGULAR SUPPLY DUCT INTO PAGE | | PRESSURE INDEPENDENT VOLUME CONTROLLER (TROX VFC) |
| | SUPPLY DIFFUSER | | PRESSURE INDEPENDENT VOLUME CONTROLLER W/ ACTUATOR (TROX VFC E0 / M0) |
| | OUTSIDE AIR DIFFUSER | | THERMOSTAT, MOUNT @ 4'-0" A.F.F. |
| | RECTANGULAR RETURN / EXHAUST DUCT OUT OF PAGE | | SENSOR |
| | RECTANGULAR RETURN / EXHAUST DUCT INTO PAGE | | CONTROL DEVICE |
| | RETURN OR EXHAUST GRILLE | | MAGNETIC DOOR SWITCH |
| | TURNING VANES | | CARBON MONOXIDE DETECTOR WITH FAN INDICATED |
| | STRAIGHT TAP | | CARBON DIOXIDE DETECTOR |
| | TAPERED FITTING | | |
| | BELL MOUTH FITTING | | |
| | CONICAL FITTING | | |
| | 45 DEG. ANGLE TAP | | |
| | ROUND ELBOW OUT OF PAGE | | |
| | ROUND ELBOW INTO PAGE | | |
| | ROUND DUCT OUT OF PAGE | | |
| | ROUND DUCT INTO PAGE | | |
| | ROUND DUCT BREAK (CONTINUATION) | | |
| | RECTANGULAR DUCT BREAK (CONTINUATION) | | |
| | FLEX CONNECTION | | |

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| 2018 INTERNATIONAL BUILDING CODE (IBC) |
| 2018 WASHINGTON STATE ENERGY CODE (WSEC) |
| 2018 INTERNATIONAL FIRE CODE (IFC) |
| 2018 INTERNATIONAL MECHANICAL CODE (IMC) |
| 2018 INTERNATIONAL FUEL GAS CODE (IFGC) |
| 2020 NATIONAL ELECTRICAL CODE (NEC) |
| 2018 UNIFORM PLUMBING CODE (UPC) |

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SRFR 31 - SHOP ADDITION
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163 VILLAGE COURT
MONROE, WA 98272

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COVER SHEET

SHEET #

M00.01

HVAC ENERGY CODE NOTES

1. SEE SCHEDULES FOR EQUIPMENT TYPE, CAPACITY AND EFFICIENCY. ALL EQUIPMENT SHALL MEET MINIMUM EFFICIENCY PER C403.3.2.
2. THERMOSTATIC CONTROLS IN THE SAME ZONE OR IN NEIGHBORING ZONES CONNECTED BY OPENINGS LARGER THAN 10% OF THE FLOOR AREA OF EITHER ZONE SHALL BE INTERLOCKED TO NOT ALLOW SIMULTANEOUS HEATING AND COOLING.
3. HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC HEAT SHALL INCLUDE MICROPROCESSOR CONTROLS THAT MINIMIZE ELECTRIC HEAT USAGE DURING START-UP, SET-UP, AND DEFROST CONDITIONS. CONTROLS SHALL ANTICIPATE NEED FOR HEAT AND USE COMPRESSION HEATING AS THE FIRST STAGE. CONTROLS SHALL INDICATE WHEN ELECTRIC HEAT IS BEING USED THROUGH VISUAL MEANS. ELECTRIC HEAT SHALL NOT OPERATE ABOVE 40 F OUTSIDE AIR TEMPERATURE.
4. THERMOSTATIC CONTROLS SHALL BE CONFIGURED WITH AT LEAST A 5F DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
5. THERMOSTATS (OTHER THAN GROUP R) SHALL BE 7-DAY PROGRAMMABLE WITH AUTOMATIC SETBACK CONTROLS SET DOWN TO 55F AND UP TO 85F. CONTROLS SHALL MAINTAIN PROGRAMMING FOR AT LEAST 10 HOURS DURING LOSS OF POWER. CONTROLS SHALL HAVE A MANUAL 2 HR OVERRIDE FOR TEMPORARY OPERATION. CONTROLS SHALL ADJUST THE DAILY START TIME FOR MORNING WARMUP PRIOR TO SCHEDULED OCCUPANCY.
6. PROVIDE AMCA CLASS 1A MOTORIZED CONTROL DAMPERS FOR OUTSIDE AIR INTAKES, EXHAUST OUTLETS, RELIEF OPENINGS, STAIRWAY AND SHAFT VENTS AND RETURN SIDE OF AIRSIDE ECONOMIZERS.
7. AIR-COOLED UNITARY DIRECT-EXPANSION UNITS WITH A COOLING CAPACITY OF 54 MBH OR GREATER THAT ARE EQUIPPED WITH AN ECONOMIZER SHALL INCLUDE FAULT DETECTION AND DIAGNOSTICS (FDD).
8. PROVIDE GAS-FIRED HEATING EQUIPMENT WITH MODULATING OR STAGED COMBUSTION CONTROL FOR ALL EQUIPMENT OVER 225 MBH.
9. THERMOSTATS (GROUP R) SHALL BE 5-2 PROGRAMMABLE SCHEDULE WITH AT LEAST 2 SETBACK PERIODS PER DAY.
10. PROVIDE DUCT, SHAFT AND PLENUM INSULATION PER C403.2.8 AND SPECIFICATION SECTION 23 07 00.
11. SEAL ALL TRANSVERSE AND LONGITUDINAL SEAMS, JOINTS AND CONNECTIONS OF ALL DUCTWORK WITH WELDS, GASKETS OR MASTICS.
12. PROVIDE PIPE INSULATION PER ENERGY CODE SECTION C403.2.9 AND SPECIFICATION SECTION 23 07 00.
13. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE, SUNLIGHT, MOISTURE AND WIND. PROVIDE JACKET AND ALUMINUM COVERS. ADHESIVE TAPE IS NOT PERMITTED.
14. SINGLE FAN OR MULTIPLE FANS IN PARALLEL WITH COMBINED MOTOR NAMEPLATE OVER 5HP SHALL HAVE A FAN EFFICIENCY GRADE (FEG) OF 67 OR HIGHER AND SHALL BE SELECTED TO OPERATE WITHIN 15% OF THE MAXIMUM TOTAL EFFICIENCY OF THE FAN.
15. COOLING SYSTEMS 65 MBH AND GREATER SHALL HAVE TWO SPEED FAN CONTROL OR MODULATING FAN CONTROL.
16. FAN AND PUMP MOTORS 7.5 HP AND GREATER SHALL BE PROVIDED WITH A VFD.
17. ECONOMIZERS SHALL BE INTEGRATED WITH MECHANICAL COOLING AND SHALL BE CAPABLE OF PROVIDING PARTIAL ECONOMIZER COOLING EVEN WHEN ADDITIONAL MECHANICAL COOLING IS REQUIRED.
18. AIR ECONOMIZERS SHALL HAVE FIXED DRY-BULB HIGH-LIMIT SHUTOFF CONTROL NOT TO EXCEED 75 DEG. F.
19. ALL ELECTRIC MOTORS SHALL MEET THE EFFICIENCY REQUIREMENTS OF TABLES C405.8(1) THROUGH C405.8(4).
20. FAN MOTORS 1/12 HP UP TO 1 HP SHALL BE ECM.
21. PROVIDE A MEANS OF BALANCING EVERY AIR INLET AND OUTLET AND EVERY AIR OR WATER TERMINAL DEVICE.
22. ALL PIPE AND DUCT INSULATION SHALL BE LABELLED WITH ITS THICKNESS AND INSULATING VALUE (R OR K).

HVAC GENERAL NOTES

1. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET, WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
2. MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE AND LOCAL CODES AND ORDINANCES.
3. DUCT CONSTRUCTION AND HANGING SHALL COMPLY WITH THE LATEST IMC AND WITH CURRENT SMACNA STANDARDS.
4. JOINTS OF DUCT SYSTEM SHALL BE SEALED WITH GASKETS OR LISTED MASTIC TYPE DUCT SEALANT.
5. DUCTS SHALL BE INSULATED AS INDICATED ON PLANS TO MEET THE REQUIREMENTS OF THE CURRENT INTERNATIONAL ENERGY CODE AND SPECIFICATION.
6. FLEXIBLE DUCTS SHALL ONLY BE USED WHERE SHOWN AND SHALL NOT EXCEED 6 FT IN LENGTH UNLESS NOTED OTHERWISE.
7. PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH THE CURRENT IBC.
8. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOOR SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
9. PROVIDE RETURN DUCT SMOKE DETECTOR(S) FOR AUTOMATIC SHUT DOWN OF ALL HEATING OR COOLING EQUIPMENT DELIVERING IN EXCESS OF 2000 CFM IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE. POWER WIRING AND INTERLOCK WIRING WITH THE BUILDING FIRE ALARM SYSTEM IS BY THE ELECTRICAL CONTRACTOR.
10. HVAC EQUIPMENT, VALVES AND DAMPERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS, UNLESS SHOWN ON ARCHITECTURAL DRAWINGS. REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE HVAC CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
11. HVAC CONTRACTOR MUST COORDINATE WITH LIGHTING FIXTURES PRIOR TO DUCT AND PIPING INSTALLATION.

COMMISSIONING NOTES

1. BUILDING COMMISSIONING BY A CERTIFIED COMMISSIONING PROFESSIONAL (CCXP) SHALL BE COMPLETED FOR THE MECHANICAL SYSTEMS. SERVICE WATER HEATING SYSTEMS AND ENERGY METERING SYSTEMS ON THIS PROJECT IN ACCORD WITH THE COMMERCIAL ENERGY CODE SECTION C408 AND SPECIFICATION SECTION 230800. THE GOAL OF COMMISSIONING IS TO VERIFY THAT EQUIPMENT, CONTROLS AND THE SEQUENCING OF SUCH OPERATE AS INTENDED. THE COMMISSIONING DOCUMENTATION THAT IS REQUIRED IS THE PROOF OF THIS OPERATION. THE FOLLOWING TASKS ARE REQUIRED FOR COMMISSIONING. SEE SECTION 230800 FOR ADDITIONAL REQUIREMENTS.
2. COMMISSIONING PLAN: THE CCXP SHALL DEVELOP A PLAN WHICH OUTLINES THE ORGANIZATION, SCHEDULE, ALLOCATION OF RESOURCES AND DOCUMENTATION REQUIREMENTS OF THE COMMISSIONING PROCESS. ITEMS 1 THROUGH 4 AS SPECIFIED SHALL BE PREPARED AND SUBMITTED WITH THE MECHANICAL PERMIT. ITEMS 5 THROUGH 8 AS SPECIFIED SHALL BE SUBMITTED TO BUILDING DEPARTMENT PRIOR TO THE FIRST MECHANICAL INSPECTION. ALL ITEMS SHALL BE SUBMITTED WITH THE MECHANICAL SUBMITTALS.
3. PRELIMINARY COMMISSIONING REPORT: COMPLETION OF THE COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE CERTIFIED BY THE CCXP. REPORT SHALL NOTE DEFICIENCIES FOUND DURING TESTING, CORRECTIVE ACTION TAKEN OR THE ANTICIPATED DATE OF CORRECTION, CONDITIONS UNDER WHICH THE TESTING WAS PERFORMED AND STATUS OF ANY DEFERRED TESTS.

A. SUBMISSION OF THIS REPORT IS REQUIRED PRIOR TO FINAL MECHANICAL & PLUMBING INSPECTIONS AND CERTIFICATE OF OCCUPANCY.

B. A COPY OF THIS REPORT SHALL BE MADE AVAILABLE TO THE CODE OFFICIAL.
4. WITHIN 90 DAYS OF RECEIPT OF THE BUILDING CERTIFICATE OF OCCUPANCY, THE PROJECT RECORD DRAWINGS, O&M MANUALS, FINAL BALANCING REPORT, FINAL COMMISSIONING REPORT AND DOCUMENTATION OF COMPLETED OWNER TRAINING SHALL BE SUBMITTED FOR REVIEW.
5. RECORD DRAWINGS: LOCATION AND PERFORMANCE DATA ON EACH PIECE OF INSTALLED EQUIPMENT, AS-INSTALLED CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM, INCLUDING SIZES, AND THE TERMINAL AIR AND WATER DESIGN FLOW RATES OF THE ACTUAL INSTALLATION.
6. OPERATION & MAINTENANCE MATERIALS: SUBMIT ALL OF THE FOLLOWING.

A. EQUIPMENT SIZE, SELECTED OPTIONS, AND REQUIRED MAINTENANCE.

B. MANUFACTURER'S O&M MANUAL FOR EACH PIECE OF EQUIPMENT.

C. NAME AND ADDRESS OF SERVICE AGENCY.

D. CONTROLS MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS, RECORD DRAWINGS AND CONTROL SEQUENCES. SETPOINTS SHALL BE PERMANENTLY RECORDED IN THESE DOCUMENTS.

E. NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.
7. SYSTEM ADJUSTING & BALANCING: ALL HVAC, HYDRONIC AND SERVICE HOT WATER SYSTEMS SHALL BE BALANCED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH ACCEPTED ENGINEERING STANDARDS AND SECTION 230593. FINAL FLOW RATES SHALL BE WITHIN TOLERANCES SPECIFIED. EACH AIR INLET OR OUTLET AND HYDRONIC COIL SHALL BE EQUIPPED WITH A MEANS FOR BALANCING.
8. FUNCTIONAL PERFORMANCE TESTING (FPT): THE CCXP SHALL PROVIDE AND EXECUTE WRITTEN PROCEDURES WHICH CLEARLY DESCRIBE THE INDIVIDUAL SYSTEMATIC TEST PROCEDURES, THE EXPECTED SYSTEMS' RESPONSE, ACCEPTANCE CRITERIA FOR EACH PROCEDURE, THE ACTUAL RESPONSE OR FINDINGS AND ANY NOTES. TESTING SHALL AFFIRM OPERATION DURING ACTUAL OR SIMULATED WINTER AND SUMMER CONDITIONS AND DURING FULL OUTSIDE AIR CONDITIONS.

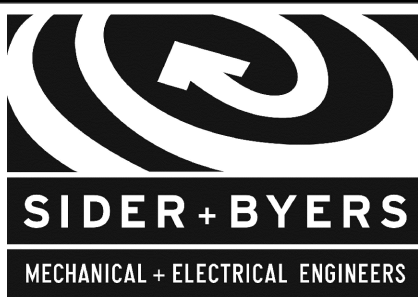
A. EQUIPMENT FPT SHALL DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM, AND SYSTEM-TO-SYSTEM INTERTIE RELATIONSHIP. TESTING SHALL INCLUDE ALL MODES AND SEQUENCE OF OPERATIONS, INCLUDING FULL-LOAD, PART-LOAD, EMERGENCY, ALARMS AND LOSS OF POWER.

B. CONTROL SYSTEMS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATION SHALL BE FUNCTIONALLY TESTED TO DOCUMENT THEY OPERATE AS REQUIRED.

C. ECONOMIZER SHALL UNDERGO A FUNCTIONAL TEST TO DETERMINE THAT THEY OPERATE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
9. OWNER TRAINING: PROVIDE SYSTEM/EQUIPMENT OVERVIEW (WHAT IT IS, WHAT IT DOES AND WHICH OTHER SYSTEMS AND OR EQUIPMENT DOES IT INTERFACE WITH). REVIEW THE AVAILABLE O&M MATERIALS. REVIEW THE PROJECT RECORD DRAWINGS. PROVIDE HANDS-ON DEMONSTRATION OF ALL NORMAL MAINTENANCE PROCEDURES, NORMAL OPERATING MODES, AND ALL EMERGENCY SHUTDOWN AND START-UP PROCEDURES. INCLUDE WRITTEN DOCUMENTATION THAT ALL THE PREVIOUS HAS BEEN COMPLETED.
10. FINAL COMMISSIONING REPORT: THE CCXP SHALL COMPLETE AND CERTIFY THE RESULTS OF ALL FUNCTIONAL PERFORMANCE TESTS AND THAT THE COMMISSIONING PLAN HAS BEEN FULLY EXECUTED. REPORT SHALL INCLUDE:

A. DISPOSITION OF ALL DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

B. ALL FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY.
11. BUILDINGS OR PORTIONS THEREOF, SHALL NOT BE CONSIDERED ACCEPTABLE FOR FINAL INSPECTION UNTIL THE CODE OFFICIAL HAS RECEIVED A LETTER OF TRANSMITTAL FROM THE BUILDING OWNER ACKNOWLEDGING RECEIPT OF THE PRELIMINARY COMMISSIONING REPORT. THIS MAY BE ACCOMPLISHED BY SUBMITTING THE COMMISSIONING COMPLIANCE CHECKLIST.
12. THE MECHANICAL CONTRACTOR SHALL NOT BE CONSIDERED SUBSTANTIALLY COMPLETE UNTIL THE PRELIMINARY COMMISSIONING REPORT HAS BEEN APPROVED BY THE ENGINEER.



PROJECT # 22041

BID SET

ISSUE DATE 3/22/2024

REVISION SCHEDULE

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AHJ APPROVAL STAMP

NOTES AND SCHEDULES

SEQUENCE OF OPERATION

1. CONTROL SYSTEM.

PROVIDE ELECTRIC/ELECTRONIC CONTROLS TO PERFORM FUNCTIONS IN ACCORD WITH THE FOLLOWING.

2. SPLIT SYSTEM: CU-1 AND HP-1

THE FOLLOWING CONTROL BY UNIT MFRS. DIGITAL CONTROL SYSTEM INCLUDED WITH EQUIPMENT.

DELUXE MA REMOTE CONTROLLER PROVIDES START/STOP, TEMPERATURE CONTROL & FAN SPEED CONTROL. CONTROLLER PROVIDES SETBACK, SCHEDULING, TEMPERATURE SETTINGS, ZONE CONTROL & ERROR MESSAGES.

FAN COIL FANS ARE GENERALLY OFF DURING OCCUPIED MODE AND CYCLE ON HEAT/COOL WHICH MODULATES TO MAINTAIN ROOM SETPOINT. FAN COIL CYCLES DURING UNOCCUPIED SCHEDULE TO MAINTAIN UNOCCUPIED HEAT SETPOINT

FAN COIL SCHEDULE IS OCCUPIED 7AM-5PM, ADJUSTABLE.

3. ENERGY RECOVERY VENTILATOR: ERV

ERV SUPPLY AND EXHAUST FANS RUN CONTINUOUSLY.

4. MAINTENANCE BAY EXHAUST FAN BEF:

FAN OPERATES WITH WALL SWITCH OR RELAY FROM CO/NO2 SENSOR. FAN ACTIVATES ON CARBON MONOXIDE (CO) LEVEL OF 50 PPM (ADJ) OR NITROGEN DIOXIDE (NO2) LEVEL OF 3 PPM (ADJ). MINIMUM FAN RUN TIME ON CO/CO2 ACTIVATION OF 30 MIN. (ADJ).

FAN INTERLOCK OPEN ASSOCIATED LOUVER MOTORIZED DAMPERS WHEN FAN IS OPERATING ON A CO LEVEL OF 100 PPM (ADJ) OR A NO2 LEVEL OF 5 PPM, RELAYS TO ACTIVATE WARNING BELL

5. VEHICLE EXHAUST FAN VEF:

CONTROLS BY PLYMOVENT SYSTEM VENDOR.

6. DESTRATIFICATION FANS DSTF1-DSTF4:

ON/OFF AND FAN SPEED CONTROL BY MANUFACTURER'S CONTROLLER. ALL FANS TO OPERATE SIMULTANEOUSLY.

7. COMPRESSOR ROOM EXHAUST EF-1:

RUNS CONTINUOUSLY

8. GAS-FIRED UNIT HEATER: UH-1

SEVEN DAY PROGRAMMABLE THERMOSTAT OPERATES UNIT HEATER TO MAINTAIN SPACE TEMPERATURE. UNIT HEATERS TURN OFF WHEN ACTIVATED BY DOOR SWITCH LOCKOUT SYSTEM (SEE BELOW).

9. GAS-FIRED INFRARED TUBE HEATERS: IH-1 AND IH-2

EQUIPMENT MANUFACTURER'S THERMOSTATS MOUNTED IN VENTED METAL ENCLOSURES MODULATE BURNERS TO MAINTAIN SPACE TEMPERATURE. (BY M.C.)

INFRARED TUBE HEATERS TURN OFF WHEN ACTIVATED BY DOOR SWITCH LOCKOUT SYSTEM (SEE BELOW).

10. DOOR SWITCHES, HEATING/COOLING SYSTEM LOCK-OUT (WSEC C403.4.1.6)

MAGNETIC DOOR SWITCH ACTIVATES 300 SECOND DELAY TIMER UPON DOOR OPENING. TIMER AUTOMATICALLY RESETS WHEN DOOR CLOSES. WHEN DOOR REMAINS OPEN FOR 300 SECONDS, DEPENDING ON TYPE OF ASSOCIATED HVAC EQUIPMENT:

HEATING SIGNAL FROM THERMOSTAT IS INTERRUPTED (UNIT REMAINS POWERED, FAN REMAINS AVAILABLE)

WHEN DOOR CLOSES THE ASSOCIATED HVAC SYSTEM SHALL RESUME NORMAL OPERATION.

11. BUILDING AIR PRESSURE DISPOSITION:

OFFICE AREA AIR PRESSURES SHALL BE POSITIVE RELATIVE TO THE MAINTENANCE BAY. VERIFY AIR PRESSURE DIFFERENTIAL PER TEST AND BALANCE SPECIFICATION.

UNIT HEATER SCHEDULE - NATURAL GAS

| MARK | MAKE | MODEL | CFM | GAS HEATING | | | ELECTRICAL | | | | WEIGHT | NOTES: |
|------|--------|--------|-----|-------------|------------|-----|------------|------|------|---------|--------|--------|
| | | | | INPUT MBH | OUTPUT MBH | EFF | FLA | HP | MOCp | VOLT/PH | | |
| UH | REZNOR | UDZ-60 | 770 | 60 | 49.8 | 83% | 2.4 | 0.06 | 15 | 115/1 | 120 | ALL |
| | | | | | | | | | | | | |

NOTES:
1. LOW VOLTAGE 7-DAY PROGRAMMABLE STAT
2. CONCENTRIC VENT TERMINAL KIT
3. 24 V CONTROL TRANSFORMER
4. INTERLOCK W/ OVERHEAD DOOR CONTACTS TO DISABLE HEATERS WHEN DOORS ARE OPEN.
5. TYPE 409 STAINLESS STEEL HEAT EXCHANGER

DIFFUSER AND GRILLE SCHEDULE

| ITEM | MAKE | MODEL | DESCRIPTION | SIZE | MARK |
|---------------------------|-------|-------|-------------------------------|-------|------|
| OSA SUPPLY DIFFUSER | PRICE | RSD | SQUARE FACE, 24"x24" LAY-IN. | 8" | D-22 |
| | | | CIRCULAR ARRAY, SIDE INLET | | |
| | | | PLENUM. | | |
| | | | ADJUSTABLE DISCHARGE PATTERN. | | |
| RETURN GRILLE | TITUS | 50F | STEEL, WHITE W/ BLACK BLADES. | | |
| | | | 1/2" EGG CRATE, ALUM., | 6"X6" | G-1 |
| | | | WHITE ENAMEL | | |
| | | | | | |

NOTES:
1. SIZE INDICATES DUCT COLLAR.

LOUVER SCHEDULE

| MARK | MAKE | MODEL | WIDTH | HEIGHT | FREE AREA | MATERIAL | FINISH | NOTES: |
|------|-----------|---------|-------|--------|-----------|----------|--------|---------|
| L-1 | GREENHECK | ESD-403 | 36" | 30" | 3.5 SQFT | ALUMINUM | KYNAR | 1, 2, 3 |
| L-2 | GREENHECK | ESD-403 | 36" | 30" | 3.5 SQFT | ALUMINUM | KYNAR | 1, 2, 3 |
| | | | | | | | | |

NOTES:
1. PROVIDE ALUMINUM BIRDSCREEN.
2. PRE-FINISHED LOUVER, COLOR TO BE SELECTED BY ARCHITECT.
3. PROVIDE INSTALLATION HARDWARE AS REQUIRED.

INFRARED TUBE HEATER SCHEDULE

| MARK | MFR. | MODEL | TUBE LENGTH | GAS HEATING INPUT MBH | ELECTRICAL | | WEIGHT | NOTES: |
|------|----------------|---------|-------------|-----------------------|------------|---------|--------|--------|
| | | | | | AMP/HP | VOLT/PH | | |
| IH-1 | ROBERTS GORDON | CTH3-80 | 30' | 80 | 5 AMP | 115 / 1 | 200 | ALL |
| IH-2 | ROBERTS GORDON | CTH3-80 | 30' | 80 | 5 AMP | 115 / 1 | 200 | ALL |
| | | | | | | | | |

NOTES:
1. PROVIDE COMPLETE RADIANT SYSTEM W/ CONTROLS.
2. PROVIDE SEISMIC RESTRAINT PER MANUFACTURERS' RECOMMENDATIONS.
3. LOW VOLTAGE THERMOSTAT IN VENTED METAL ENCLOSURE.

ENERGY RECOVERY VENTILATOR SCHEDULE

| MARK | MAKE | MODEL | TYPE | SUPPLY | | EXHAUST | | HEAT EXCHANGER | | HEAT | | | ELECTRICAL | | WGT. | NOTES |
|-------|-----------|-----------|---------|--------|------|---------|------|----------------|----------------|-------|--------|-----|-------------|---------|------|-------|
| | | | | CFM | ESP | CFM | ESP | MATERIAL | HVI ASRE @ 32F | INPUT | OUTPUT | EFF | MCA | VOLT/PH | LBS | |
| ERV-1 | PANASONIC | FV-10VEC2 | CEILING | 100 | 0.25 | 50 | 0.25 | CORE | 76.0% | NA | NA | --- | 100 (WATTS) | 120/1 | 100 | ALL |
| | | | | | | | | | | | | | | | | |

NOTES:
1. ECM MOTORS, DIRECT DRIVE
2. MERV 8 SUPPLY AND EXHAUST FILTERS
3. HANGING NEOPRENE ISOLATION.
4. INTERNAL .5 INCH INSULATION LINING.
5. INTERNAL MOTORIZED INSULATED LOW LEAK SUPPLY AND EXHAUST DAMPERS
6. MANUFACTURER'S ONBOARD CONTROLS
7. CONTRACTOR VERIFY AIRFLOW CONFIGURATION, PRIOR TO ORDERING
A. RUNS CONTINUOUSLY

FAN SCHEDULE

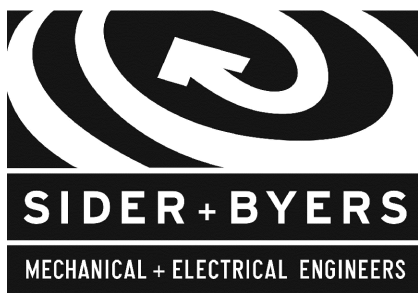
| MARK | SERVES | MAKE | MODEL | TYPE | CFM | ESP INCH WC | RPM | BHP | HP (WATTS) | ELEC VOLT/PH | WT. LBS | MAX SOUND | NOTES: |
|--------------|----------------------|-----------|----------|----------|-----------|-------------|------|------|------------|--------------|---------|-----------|-----------|
| BEF | MAINTENANCE BAY | GREENHECK | G-200-VG | ROOF | 3500 | 0.5 | 820 | 0.66 | 1.0 | 120/1 | 300 | 61 DBA | A, 1-4 |
| VEF | BAY VEHICLE EXHAUST | PLYMOVENT | TEV-585 | SWSI | BY VENDOR | - | - | - | 7.5 | 208/3 | 200 | 106 LWA | B, 5-7 |
| DSTF-1,2,3,4 | BAY DESTRATIFICATION | AIRIUS | A-25-EC | AIR PEAR | 620 | N/A | 1700 | N/A | 30 WATT | 120/1 | 10 | 62 LWA | C |
| EF-1 | COMPRESSOR RM. EXH. | GREENHECK | SQ-80-VG | INLINE | 200 | 0.25 | 1209 | 0.03 | 1/10 | 120/1 | 100 | 45 DBA | D,1,5,8,9 |

NOTES:
1. ECM MOTOR AND FAN SPEED CONTROL
2. FACTORY INSULATED CURB W/ SEAL, MATCH ROOF SLOPE
3. ALUMINUM BIRD SCREEN
4. MOTORIZED SHUTOFF DAMPER, CLASS 1A
5. BACKDRAFT DAMPER
6. PROVIDE COMPLETE FACTORY CONTROLS. START UP AND TESTING
7. FINAL FAN SELECTION AND DESIGN BY PLYMOVENT
8. HANGING NEOPRENE ISOLATION
9. INLET GUARD
A. RUNS ON CO / NO2 SENSOR AND WALL SWITCH. SEE CONTROL DIAGRAM.
B. PLYMOVENT CONTROL PANEL BY PLYMOVENT
C. MANUFACTURER'S WALL EC SPEED CONTROL
D. RUNS CONTINUOUSLY

SPLIT-SYSTEM HEAT PUMP SCHEDULE

| INDOOR UNIT | | | | | | | | | | | | | | | | OUTDOOR UNIT | | | | | | | | | | NOTES: |
|-------------|--------|------------------|----------------|--------------|-------------|------------|--------------|-------------|----------------|-----------|--------------------------------|------------|-----|-----------------------|-----------------|--------------|------------------|----------------|------|------|------------|-----|-----|-----------------------|-----------------|---------|
| MARK | SERVES | MAKE | MODEL | SUPPLY | | | COOLING | | | | HEATING MBH OUTPUT @ 20 OAT | ELECTRICAL | | SOUND LEVEL dBA | OP. WT. LBS. | MARK | MAKE | MODEL | SEER | HSPF | ELECTRICAL | | | SOUND LEVEL dBA | OP. WT. LBS. | |
| | | | | TOTAL CFM | ESP W.C. | OSA CFM | TOTAL MBH | SENS MBH | EAT DB / WB | OAT DB | | VOLT / PH | MCA | | | | | | | | VOLT / PH | MCA | MOP | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HP-1 | OFFICE | TRANE-MITSUBISHI | NTXCKS15A112AA | 405 | N/A | -- | 14.1 | 10.6 | 75 / 62.5 | 85 | 11.9 | 208 / 1 | 0.4 | 39 | 50 | CU-1 | TRANE-MITSUBISHI | NTXSKS15A112AA | 19.8 | 11.2 | 208/1 | 10 | 18 | 51 | 120 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | A,2,3,4 |

NOTES:
1. PROVIDE MANUFACTURER'S JOINTS AND PIPE SIZING PER MANUFACTURER'S GUIDELINES.
2. INTEGRAL CONDENSATE PUMP
3. ECONOMIZER EXCEPTION #1, WSEC C403.5
4. FACTORY PROVIDED WASHABLE FILTER.
A. DELUXE MA TAR-40MAAU REMOTE CONTROLLER.

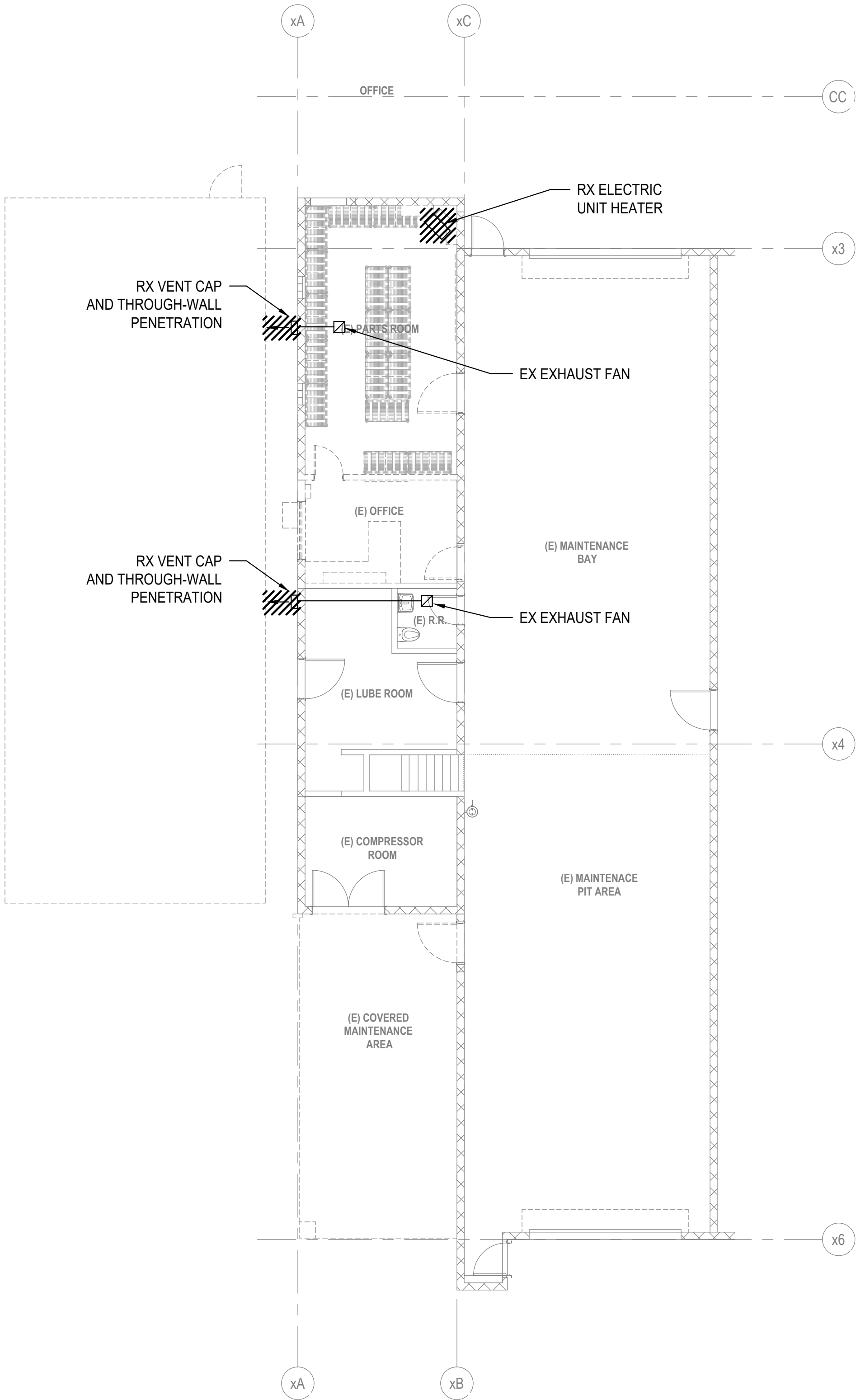


REVISION SCHEDULE

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SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272



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

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|------------|-----------|
| PROJECT # | 22041 |
| BID SET | |
| ISSUE DATE | 3/22/2024 |

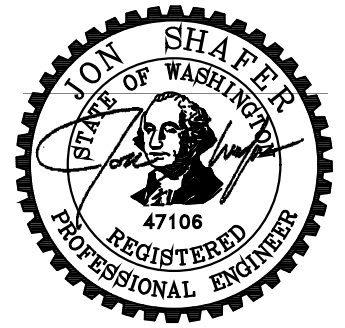
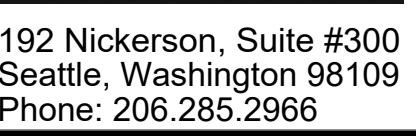
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AHJ APPROVAL STAMP

DEMOLITION FLOOR
PLAN

SHEET #

M20.01



SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE

163 VILLAGE COURT
MONROE, WA 98272

BID SET

REVISION SCHEDULE

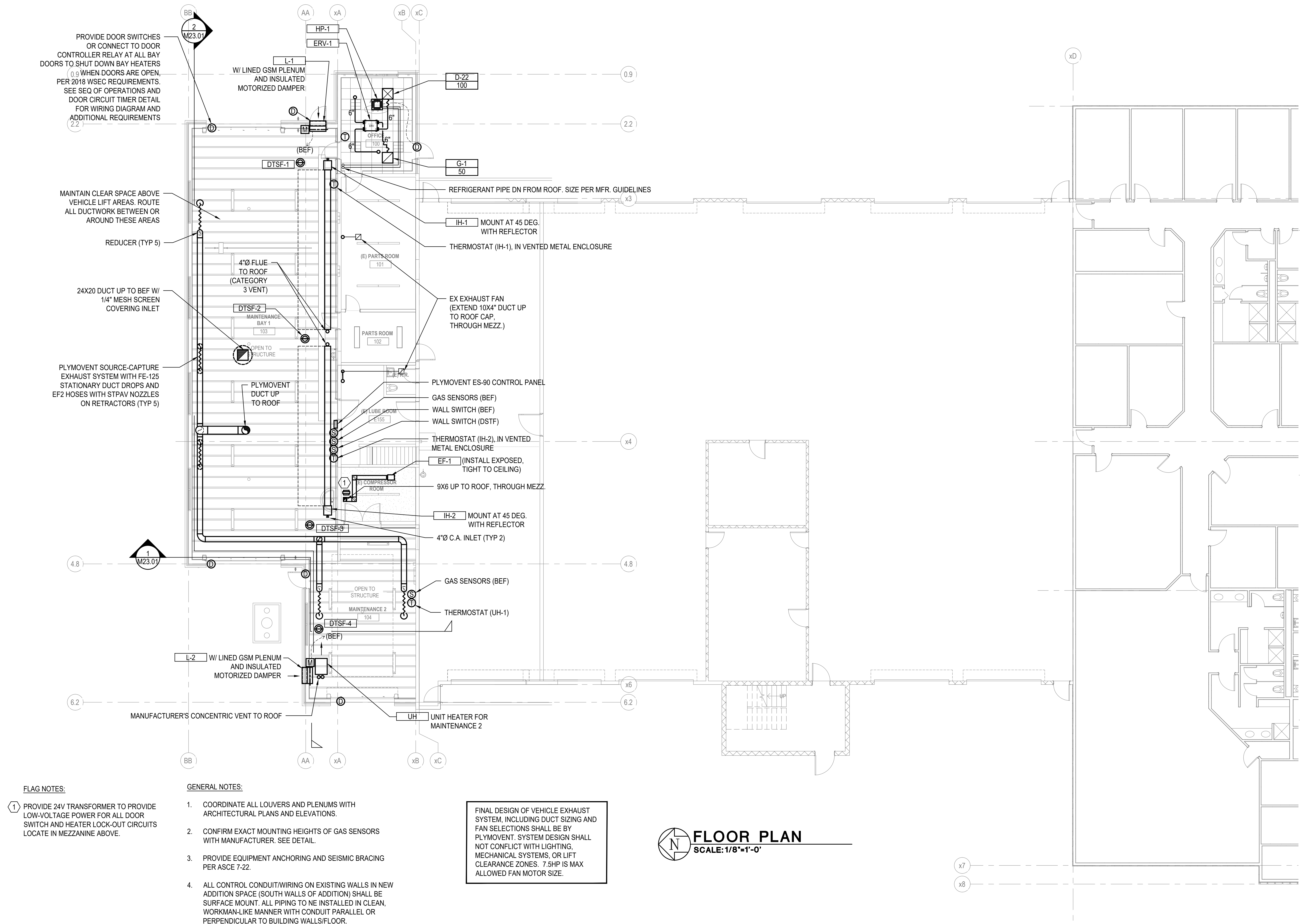
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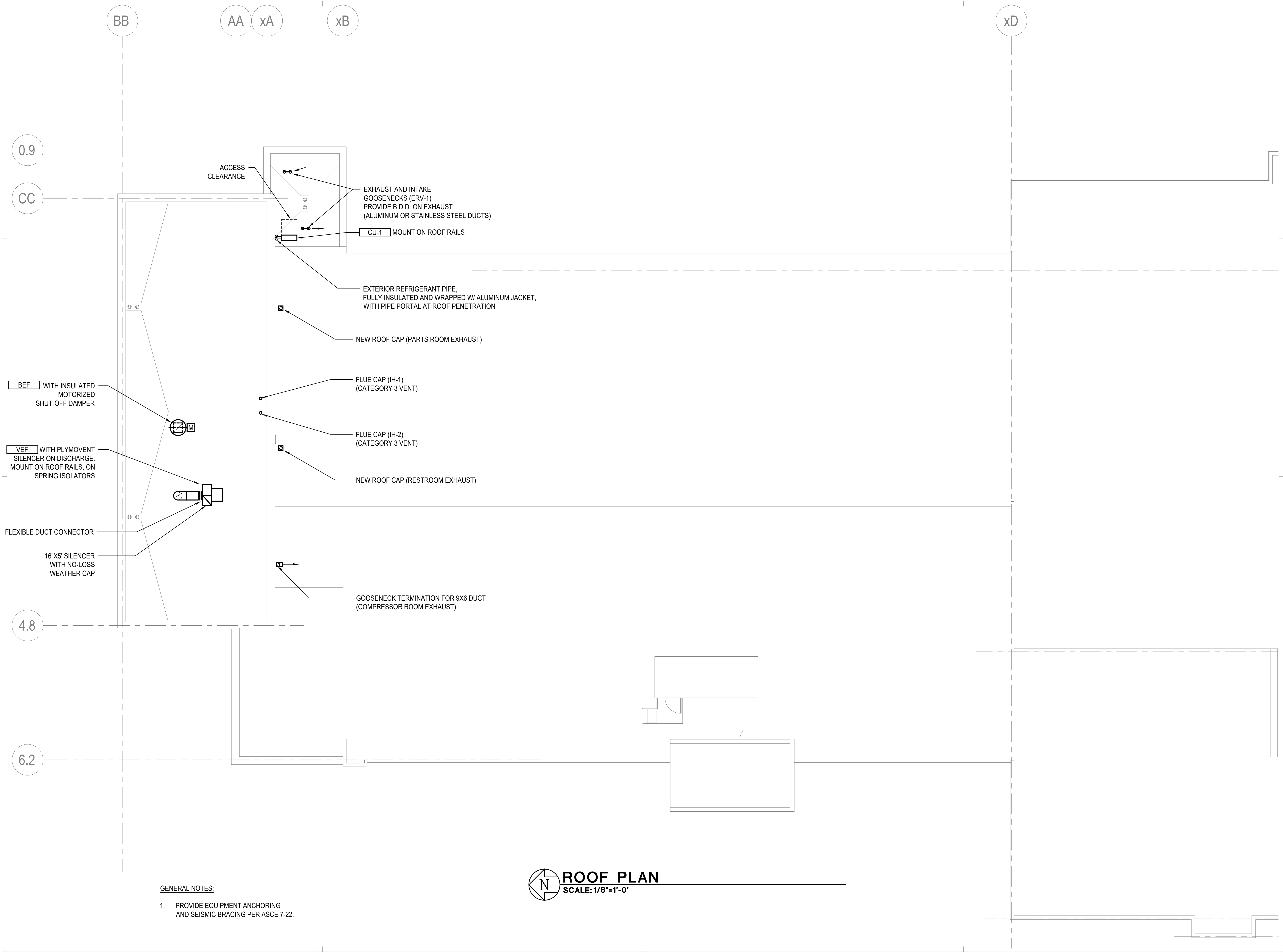
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FLOOR PLAN

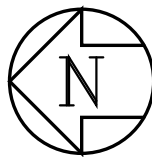
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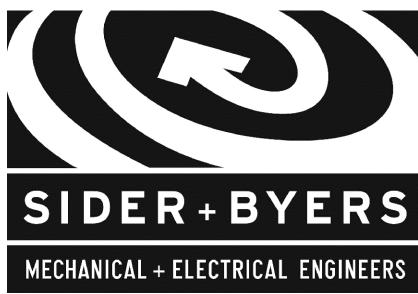


- GENERAL NOTES:
1. PROVIDE EQUIPMENT ANCHORING AND SEISMIC BRACING PER ASCE 7-22.



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

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SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

PROJECT # 22041

BID SET

ISSUE DATE 3/22/2024

| REVISION SCHEDULE | |
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ROOF PLAN

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MECHANICAL + ELECTRICAL ENGINEERS

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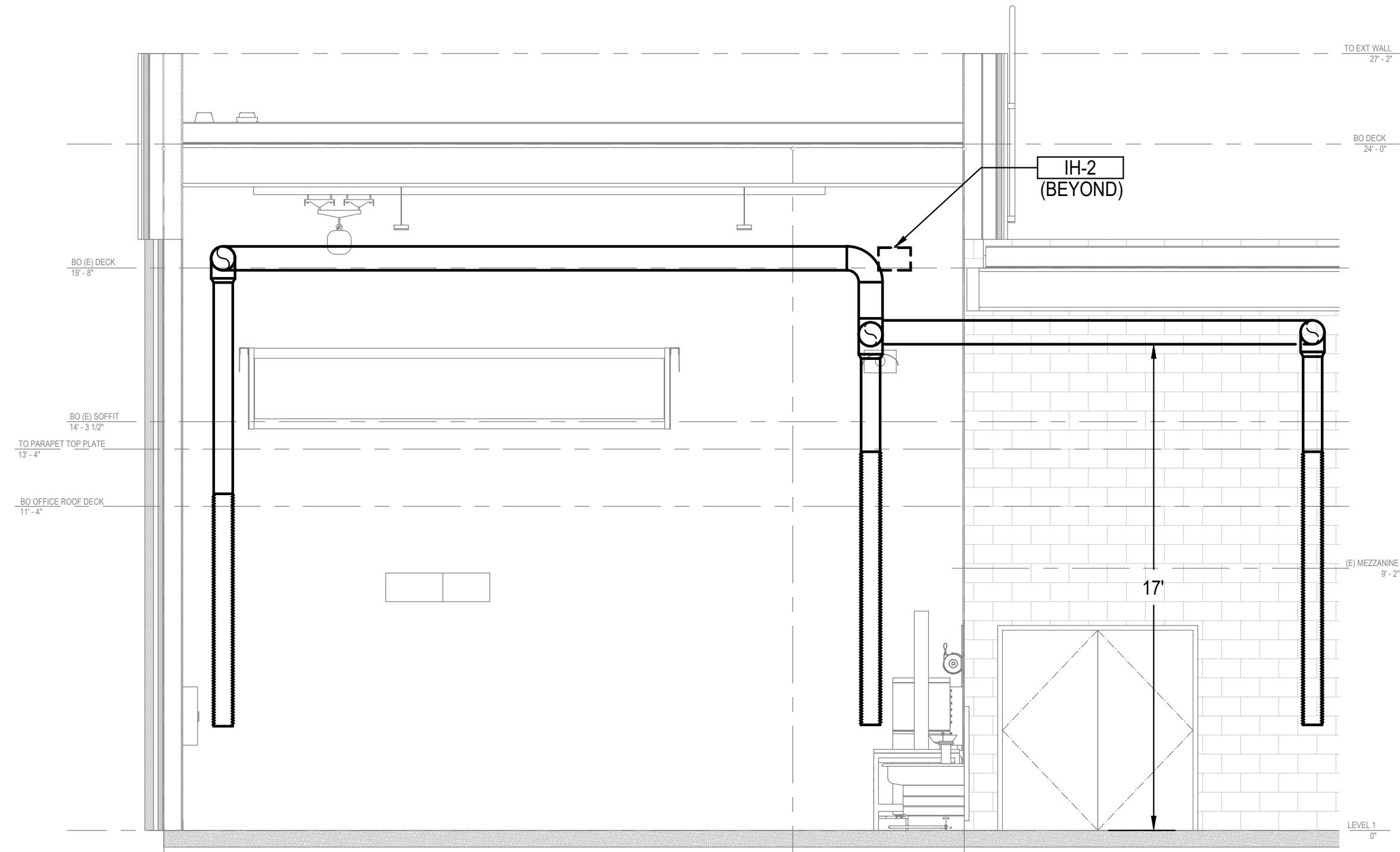
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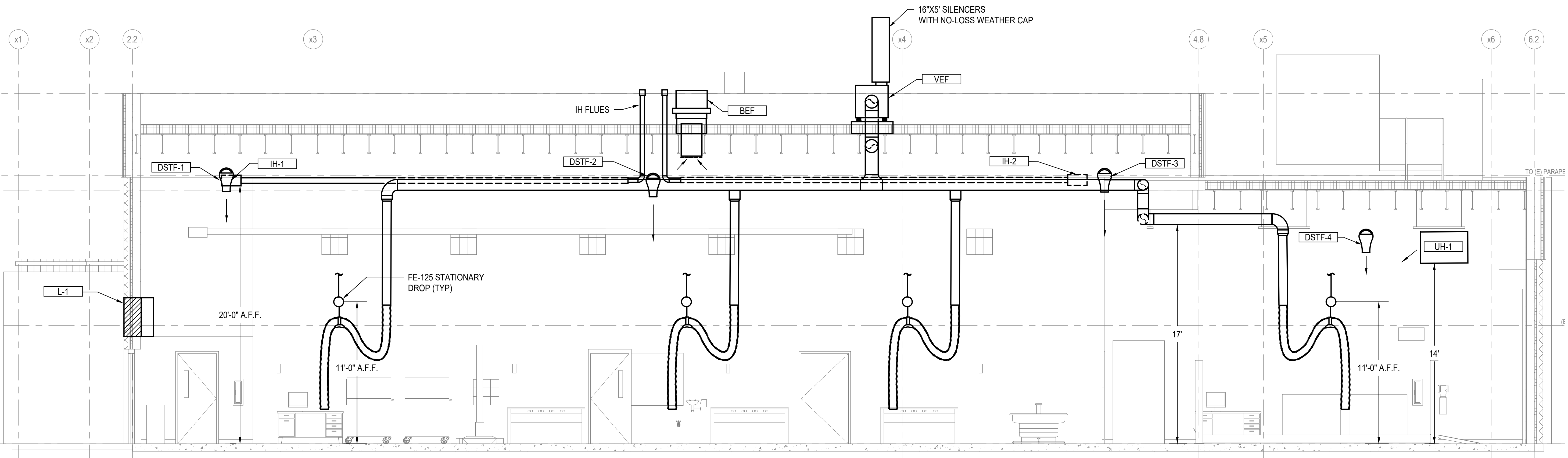
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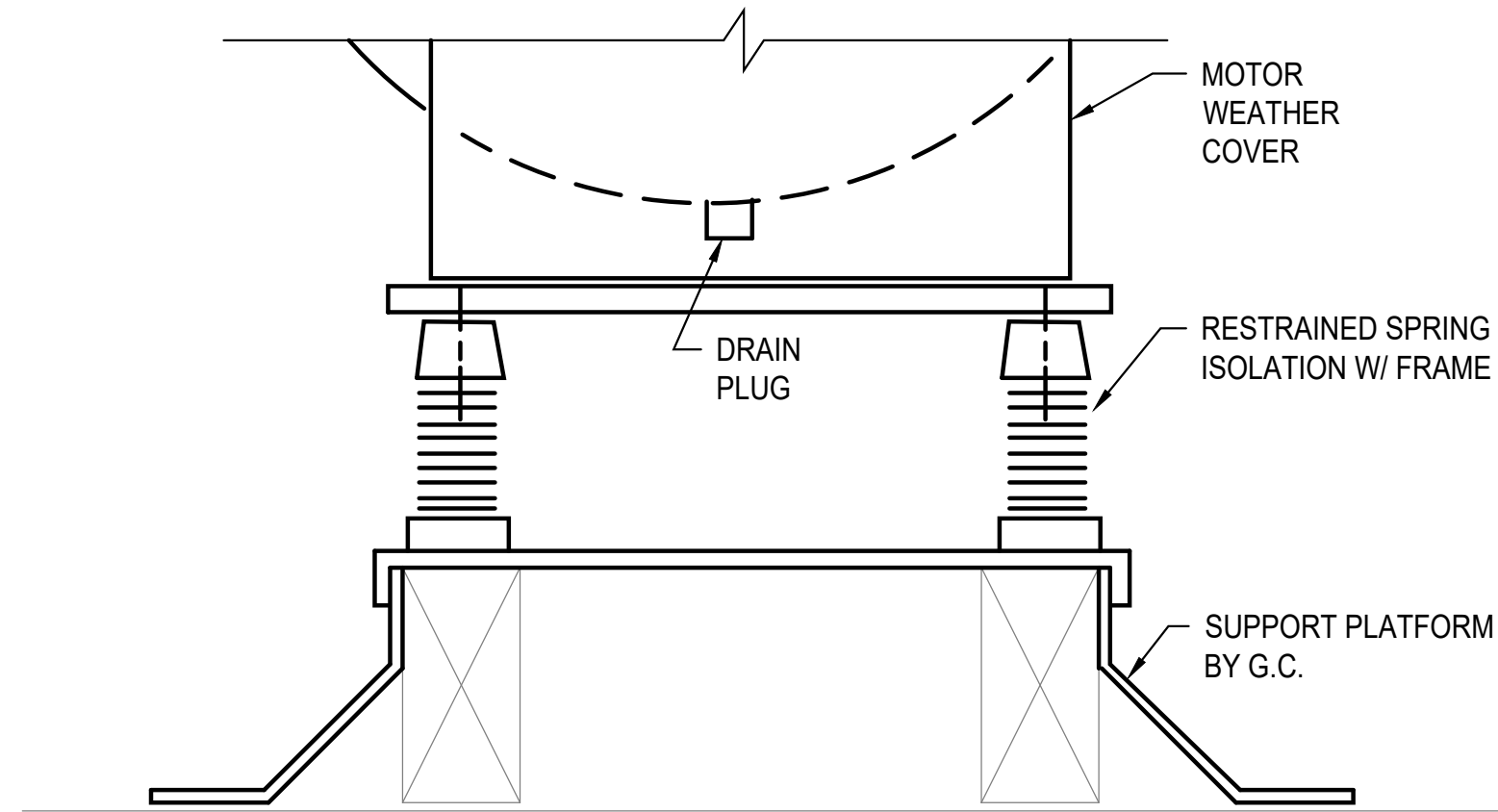
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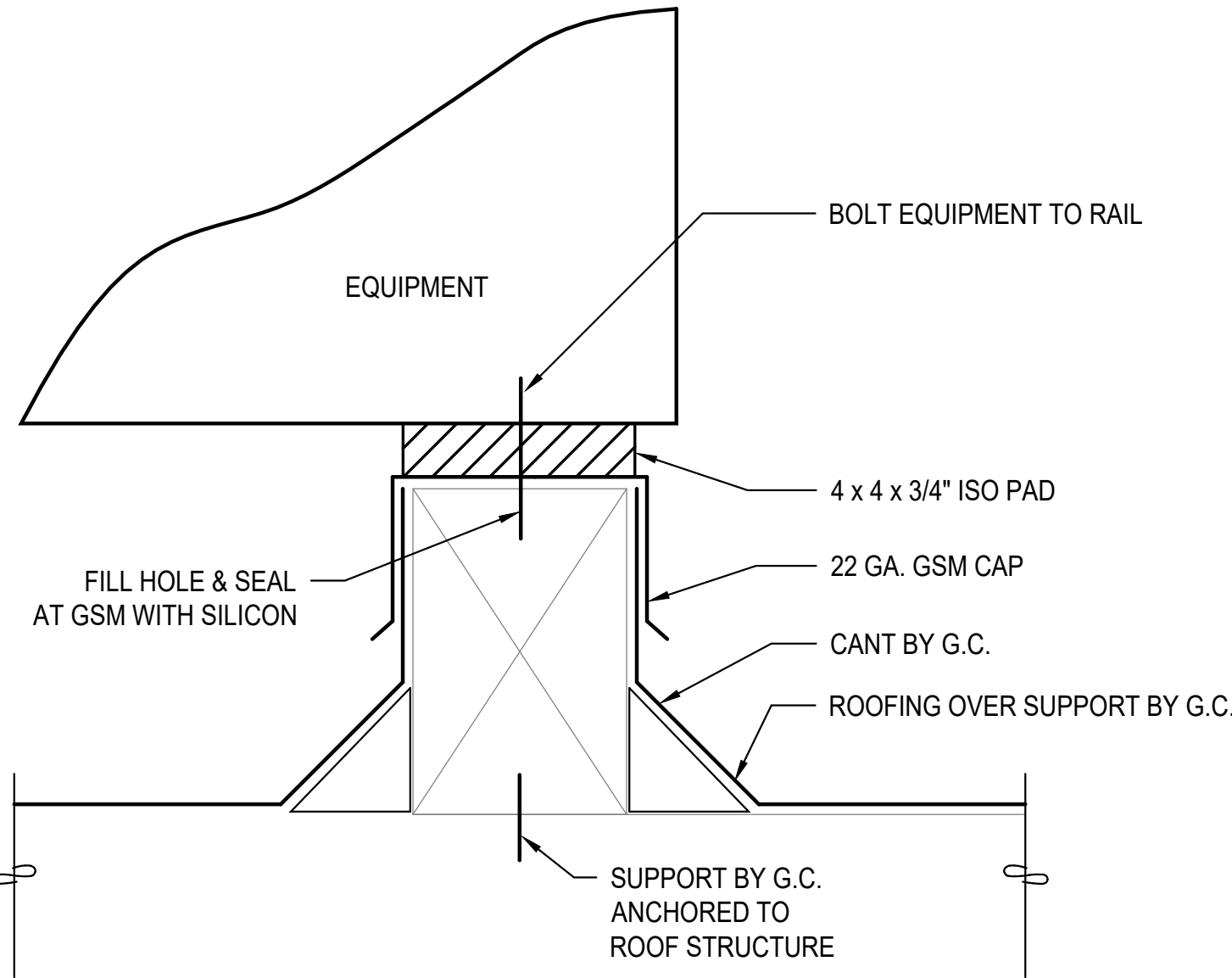
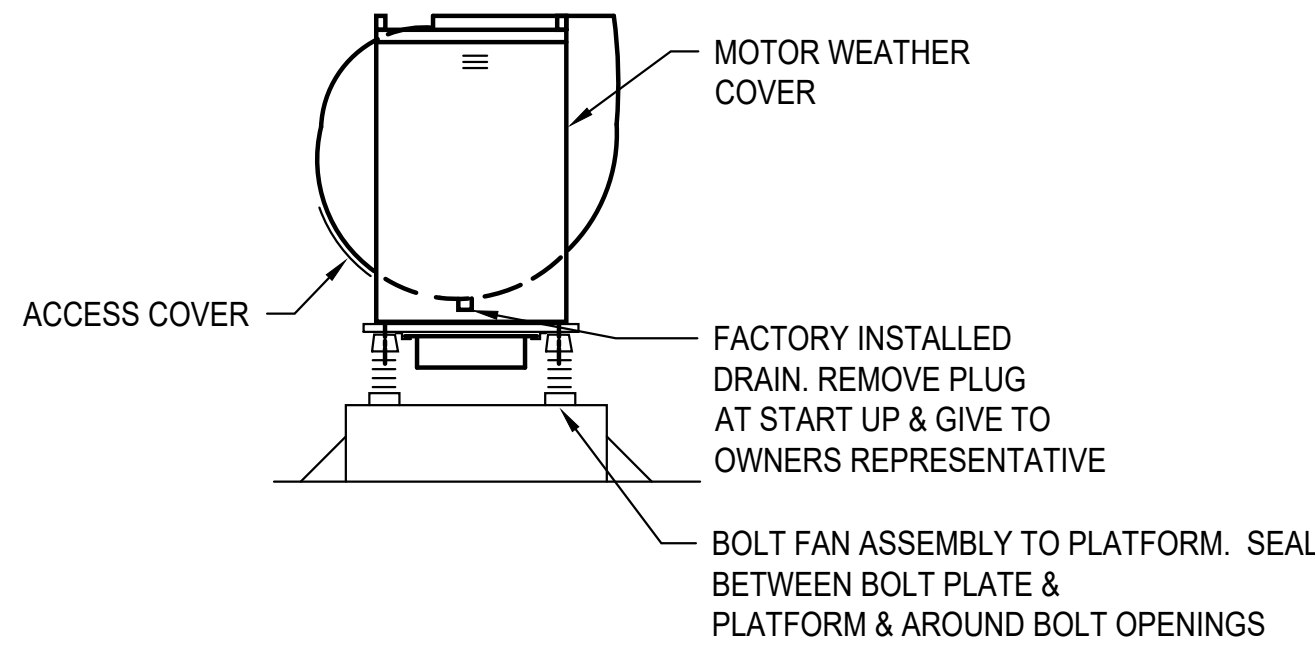
1 SECTION FACING EAST
M23.01 1/4"=1'-0"



2 SECTION FACING SOUTH
M23.01 1/4"=1'-0"



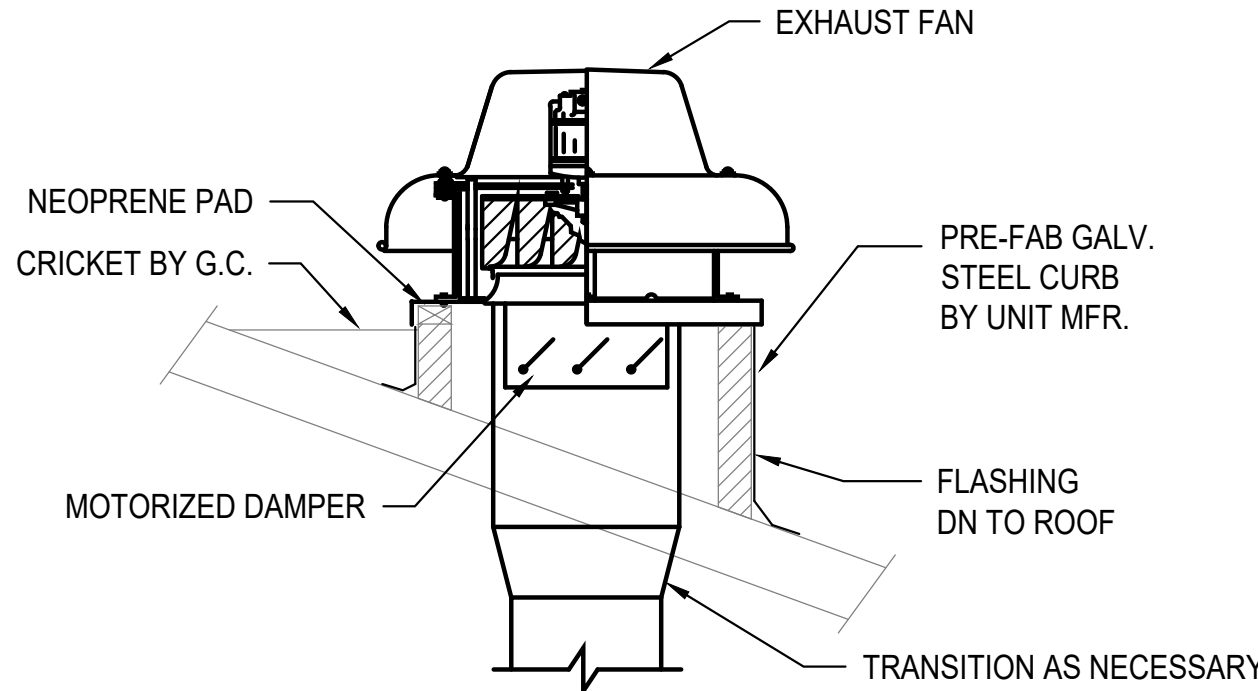
1 UTILITY SET EXHAUST FAN DETAIL
M30.01 N.T.S.



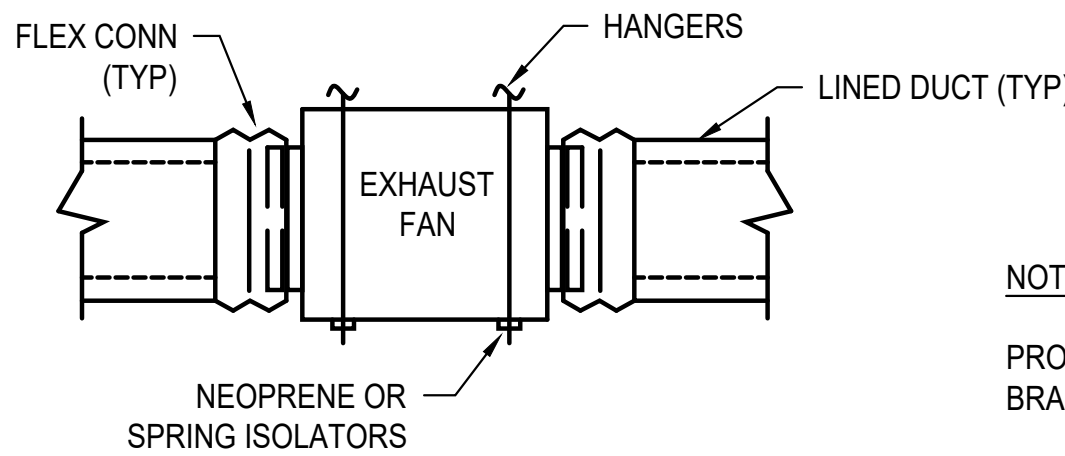
2 RAIL SUPPORT DETAIL
M30.01 Scale: NONE

DETAIL TYPICAL FOR UTILITY FAN AND CONDENSING UNIT SUPPORT. DUCT SUPPORT SIMILAR.

NOTE:
MECH. CONTRACTOR TO HIRE THIRD PARTY STRUCTURAL ENGINEER TO PROVIDE EXACT NUMBER AND SIZE OF BOLTS/FASTENERS AND PROVIDE EQUIPMENT SEISMIC CALCULATIONS.

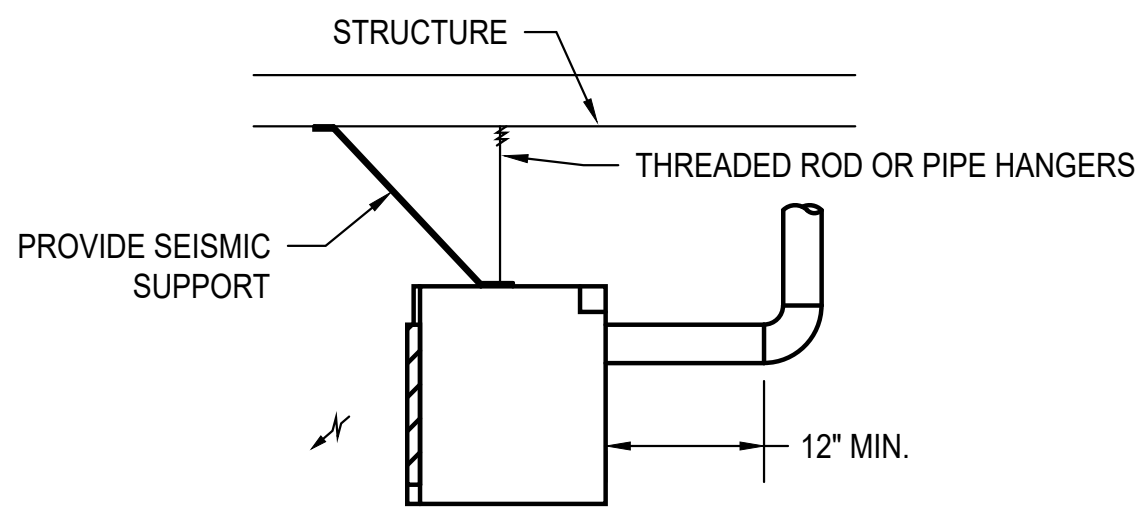


3 ROOF EXHAUST FAN DETAIL
M30.01 Scale: NONE

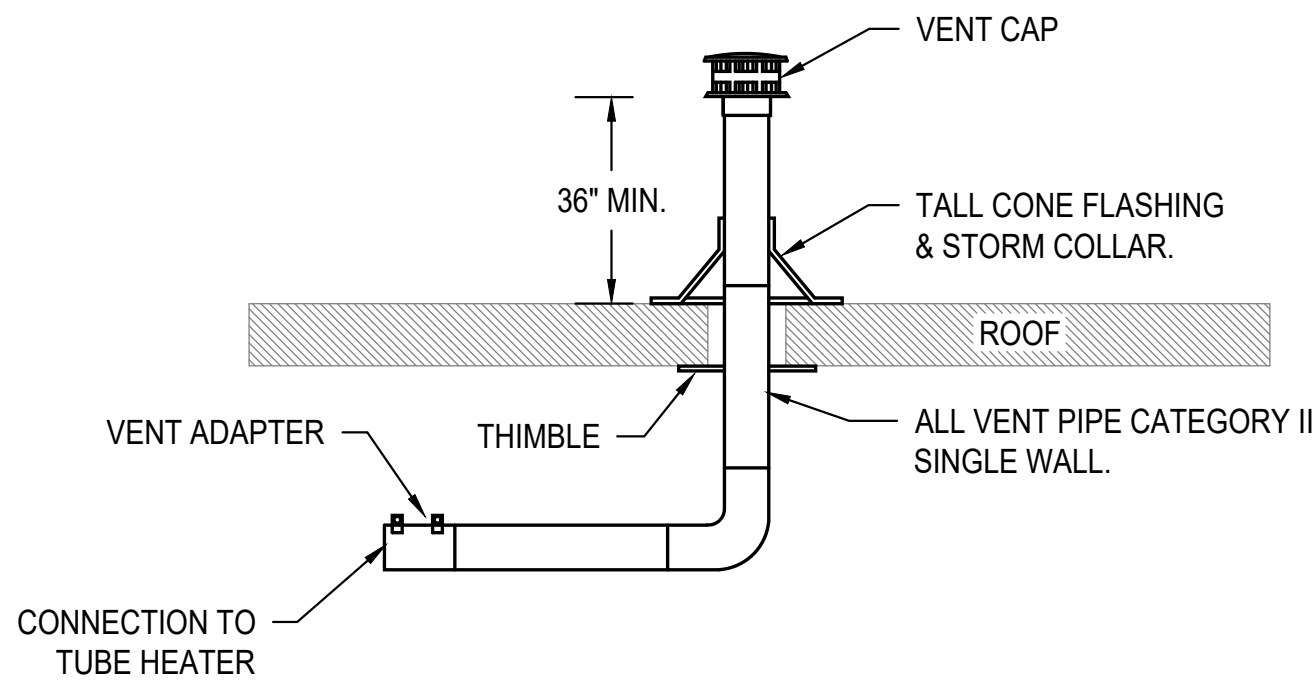


NOTE:
PROVIDE SEISMIC BRACING

4 INLINE EXHAUST FAN DETAIL
M30.01 Scale: NONE

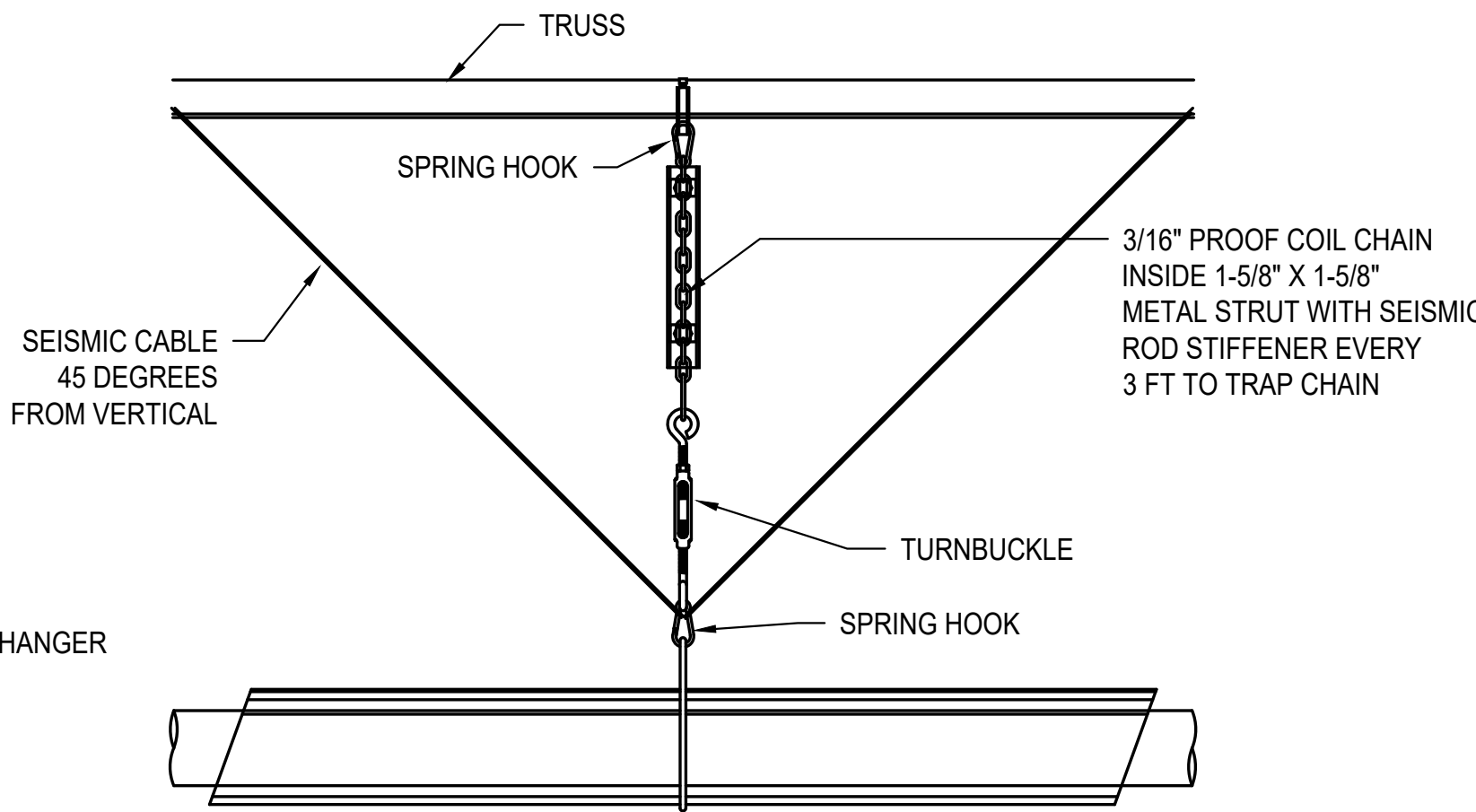
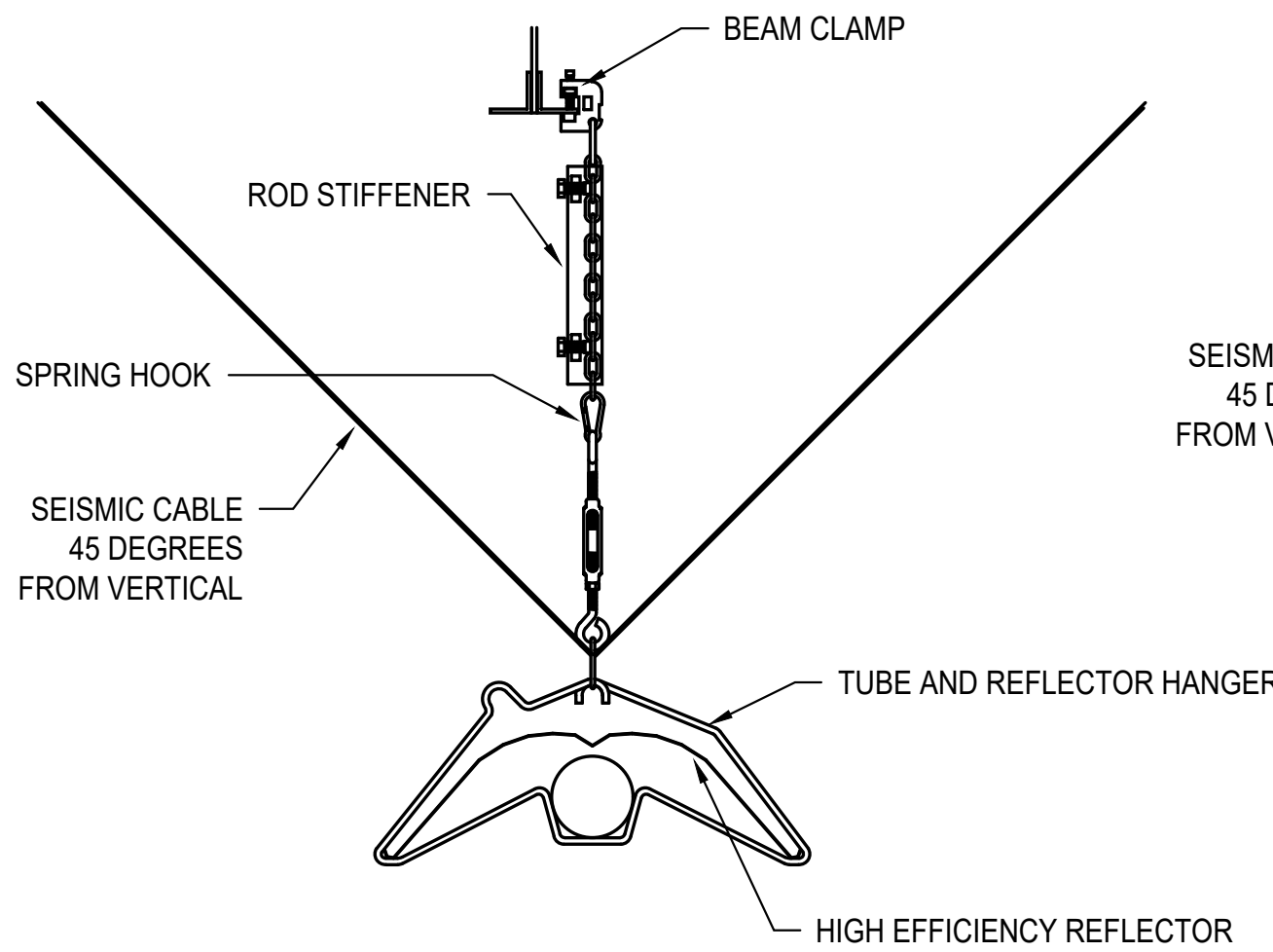


5 UNIT HEATER DETAIL
M30.01 N.T.S.



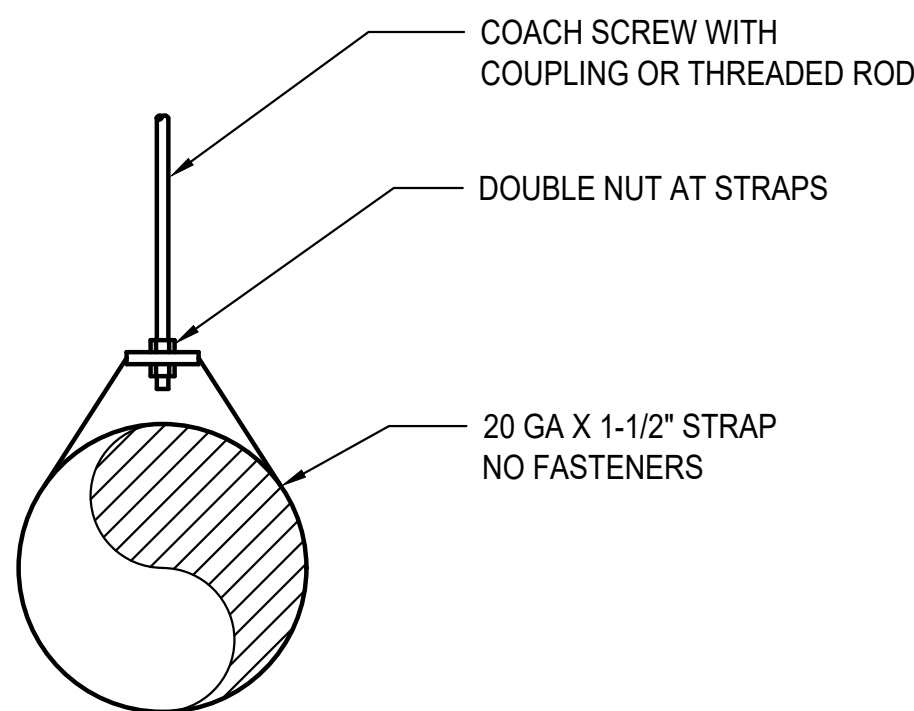
- NOTES:
- SEAL ALL JOINTS WITH HIGH TEMPERATURE SILICONE SEALANT APPROVED FOR AT LEAST 550°F. THE INSTALLER MUST PERFORM A LEAK TEST ON THE COMPLETE VENTING SYSTEM. A SOLUTION OF SOAP AND WATER SHOULD BE USED TO TEST THE VENTING SYSTEM.
 - MAINTAIN CLEARANCE TO COMBUSTIBLES FROM VENT PIPING.
 - ENSURE TUBE HEATER IS SLOPPED AT 1/2" PER 20' TOWARDS FLUE / AWAY FROM BURNER.

7 INFRARED HEATER VENTING DETAIL
M30.01 N.T.S.



NOTE:
SEE MANUFACTURER'S INSTALLATION MANUAL FOR SPECIFIC REQUIREMENTS.

8 INFRARED TUBE HEATER HANGING DETAIL
M30.01 N.T.S.



6 EXPOSED SPIRAL DUCT HANGING DETAIL
M30.01 Scale: NONE

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SNOHOMISH REGIONAL FIRE & RESCUE
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MONROE, WA 98272

PROJECT # 22041

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ISSUE DATE 3/22/2024

REVISION SCHEDULE

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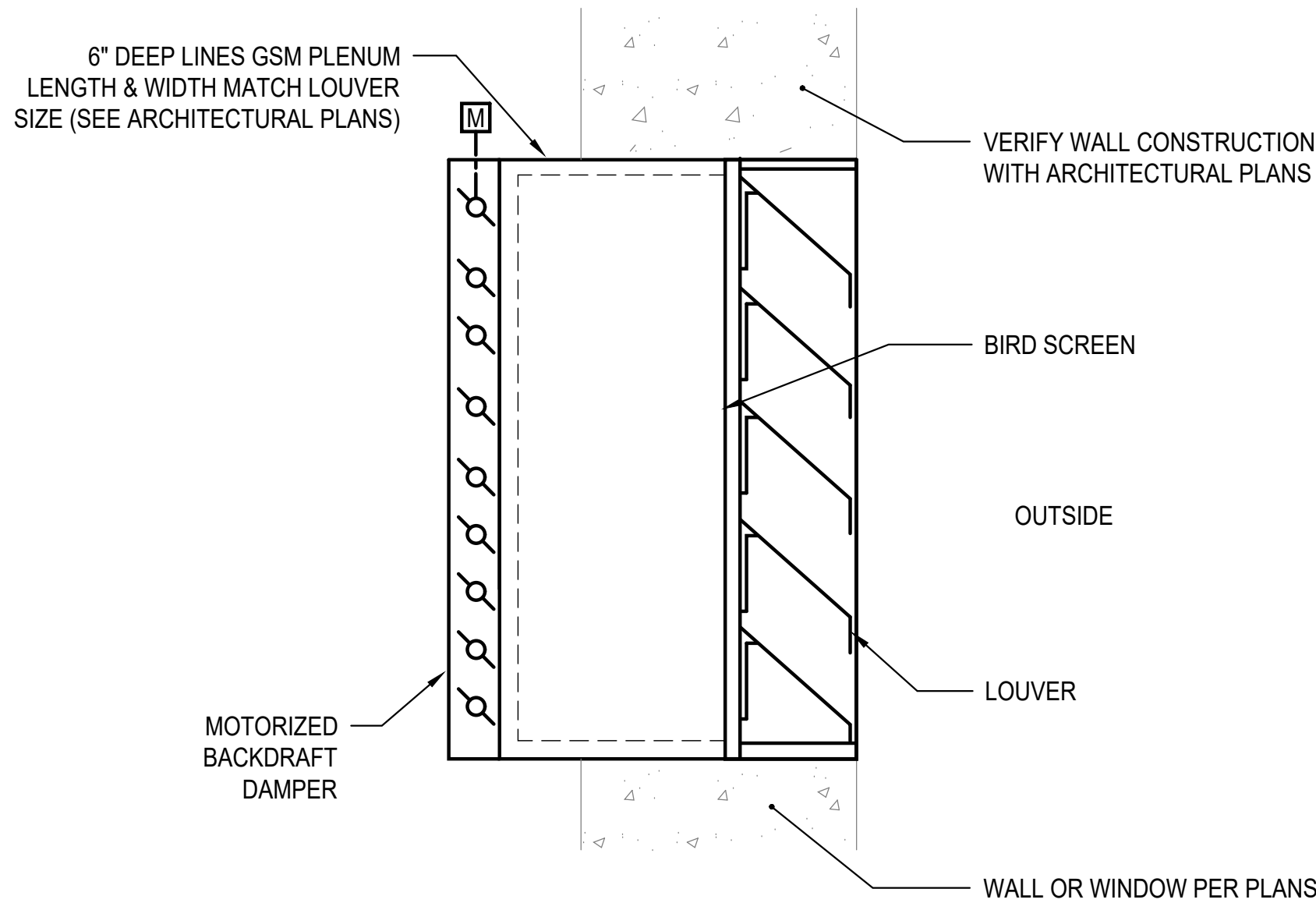
DETAILS

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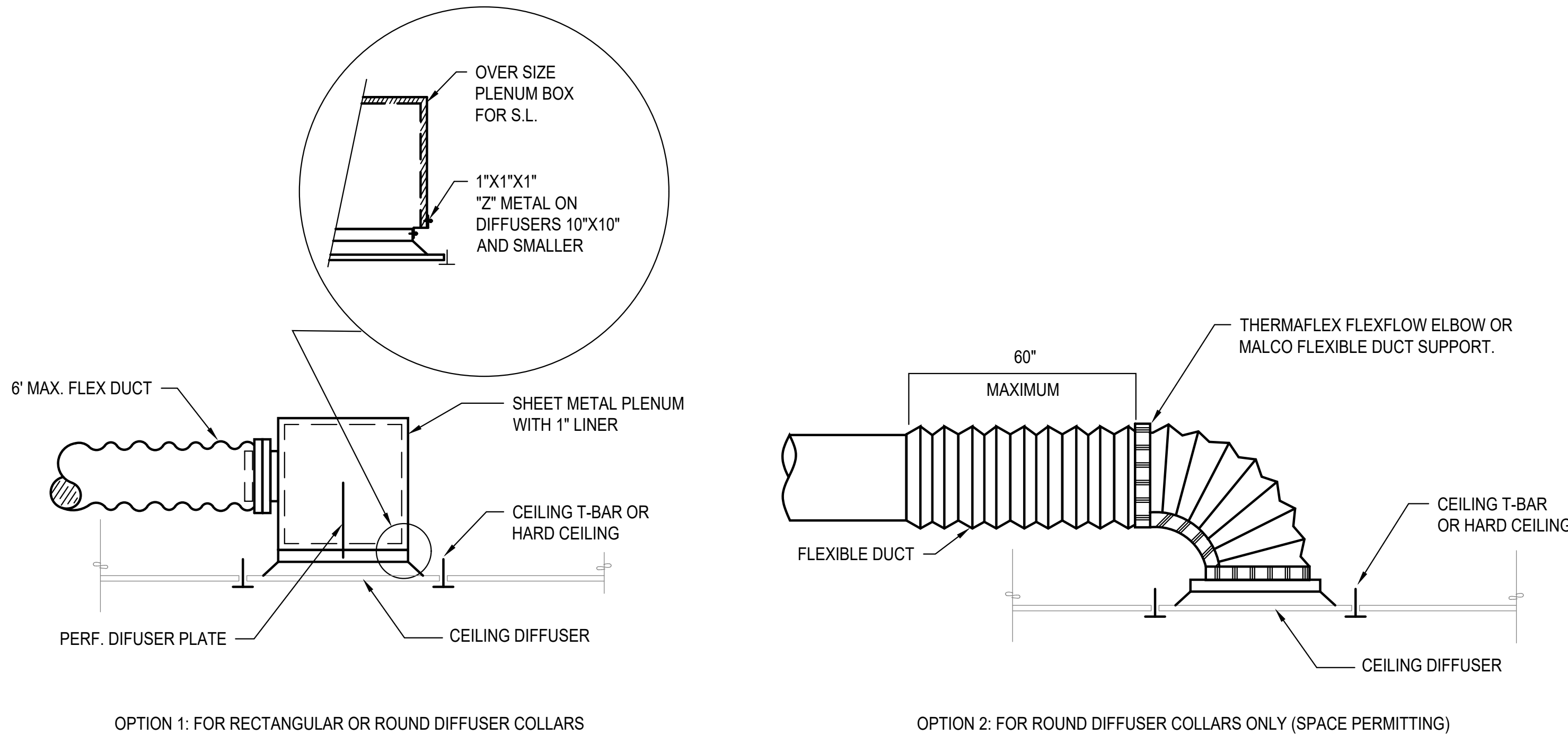
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DETAILS

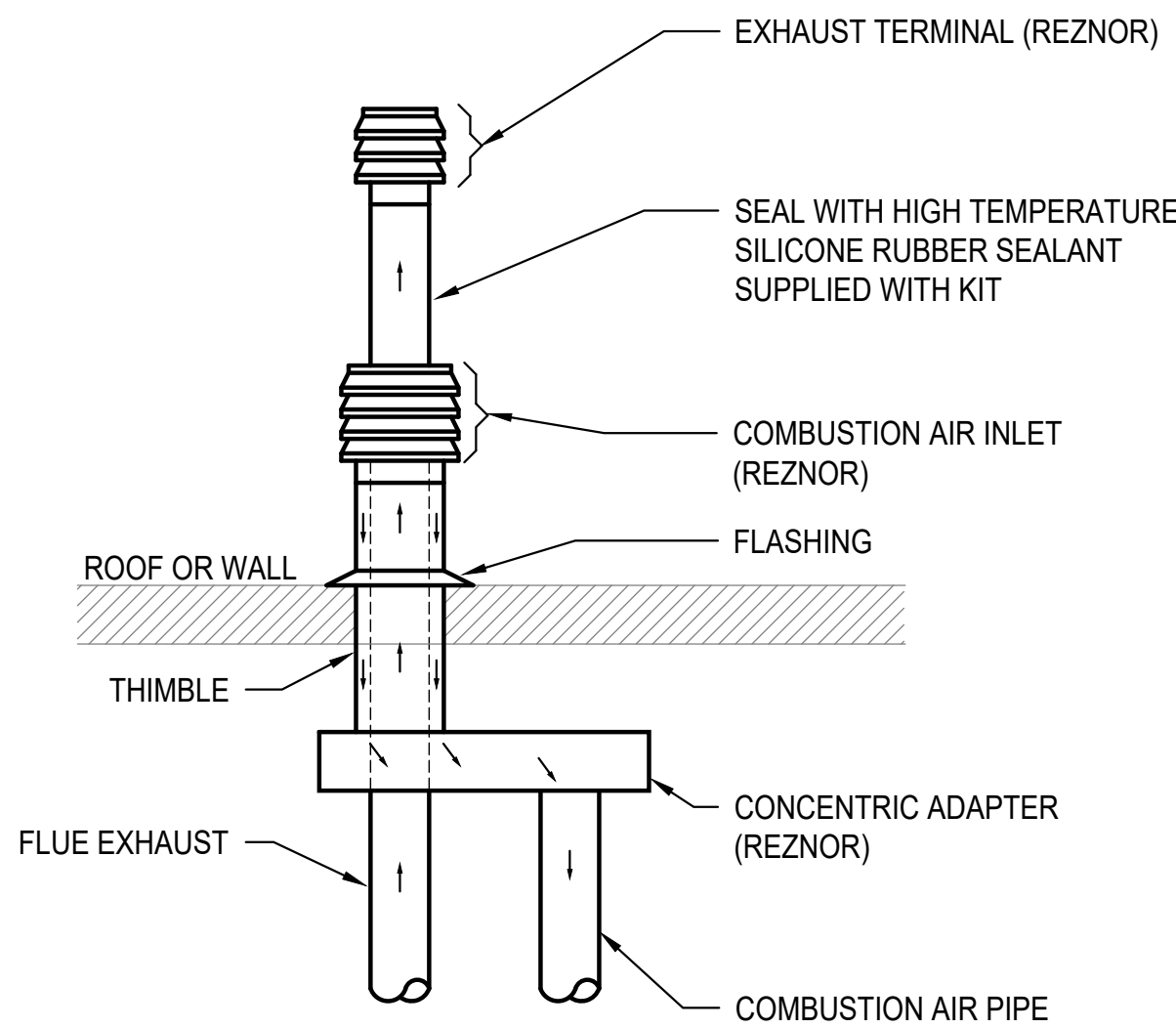


1 LOUVER DETAIL
M30.02 N.T.S.

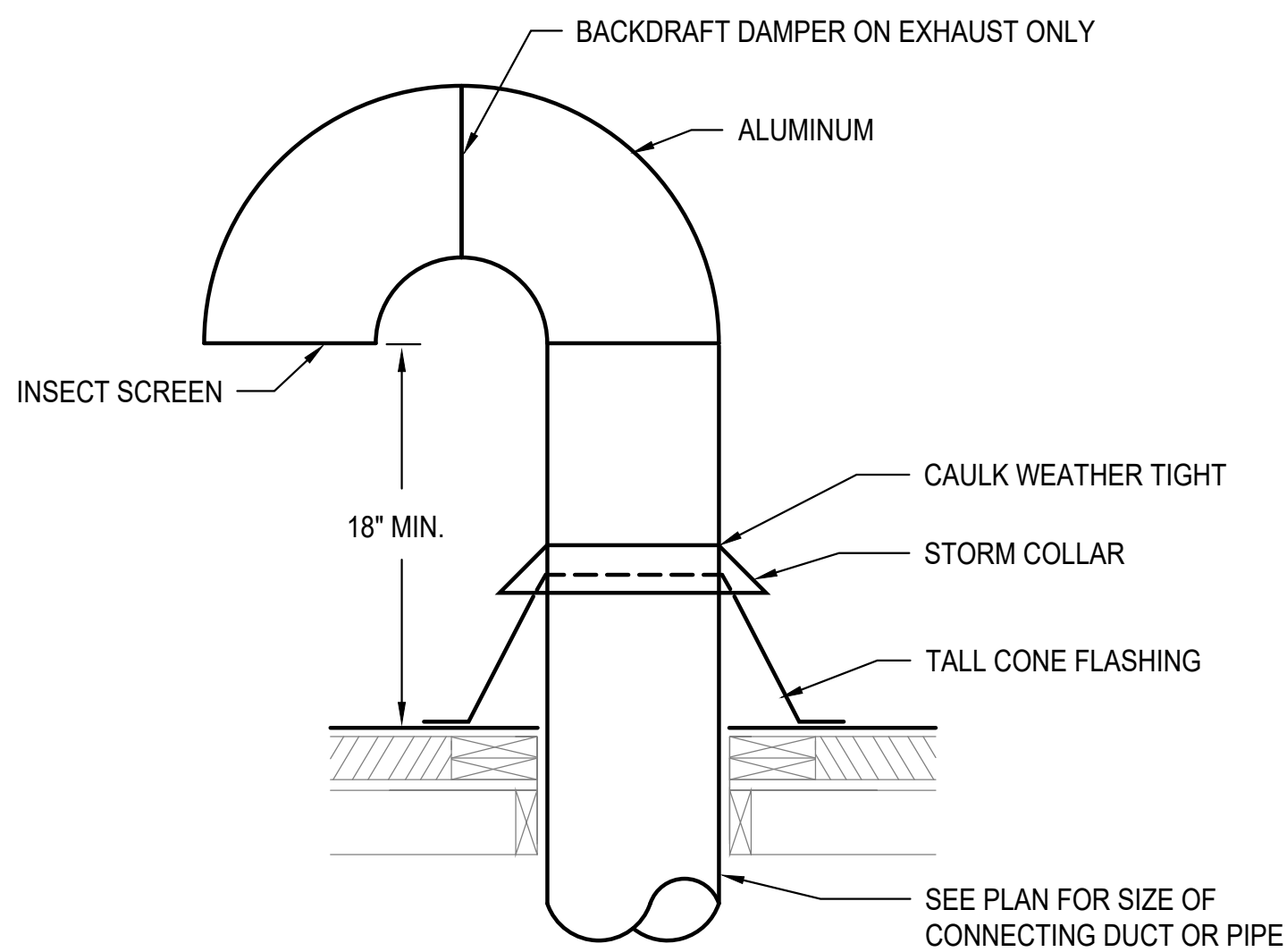


- NOTES:
- SEE ARCHITECTURAL PLANS FOR CEILING TYPES.
 - SUPPLY SHOWN, DETAIL WITHOUT PERF PLATE IS TYPICAL FOR CEILING RETURN OR EXHAUST GRILLE INSTALLATION.

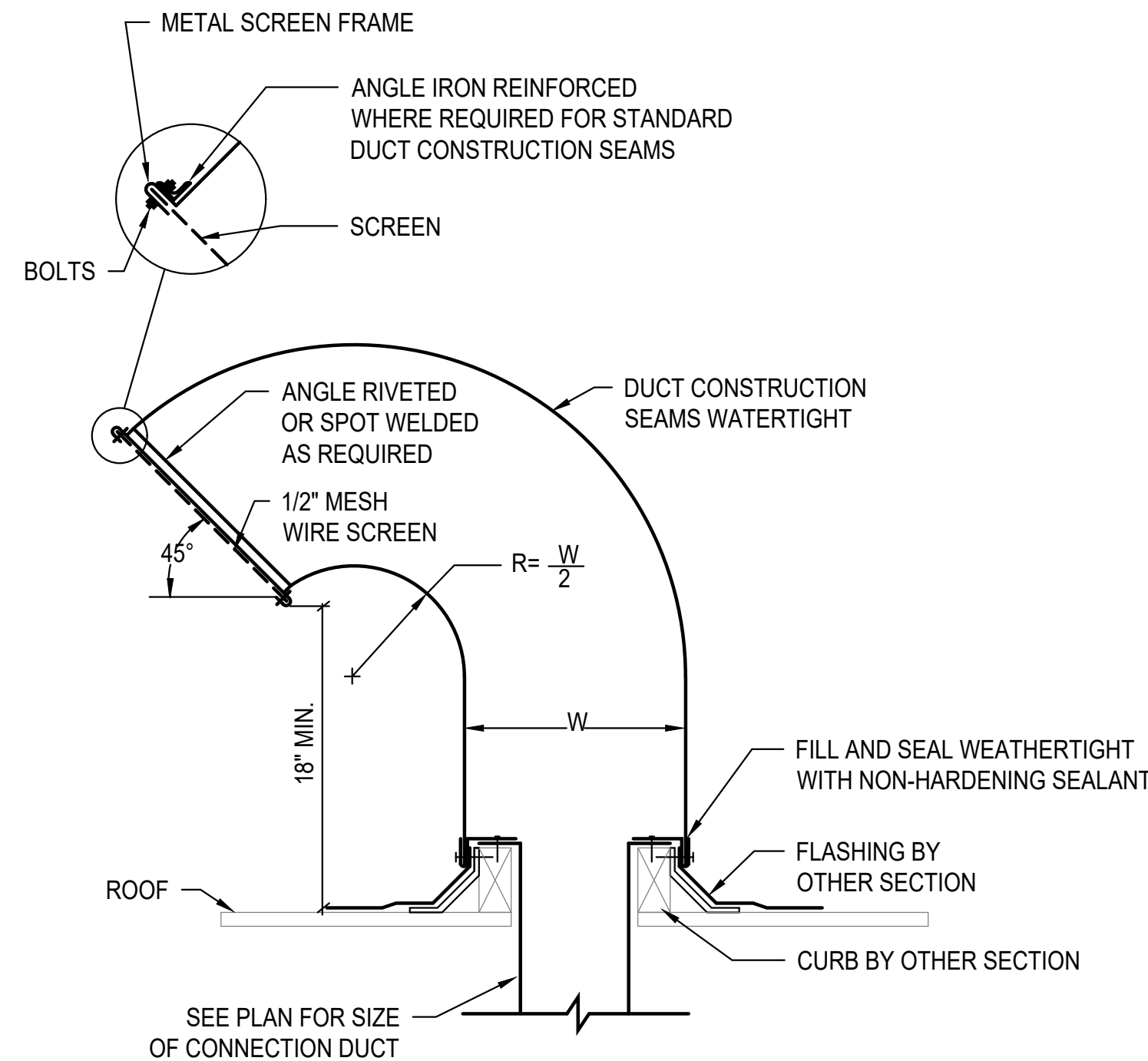
**2 TYPICAL DIFFUSER DETAIL
CEILING INSTALLATION**
M30.02 Scale: NONE



3 CONCENTRIC VENT DETAIL
M30.02 N.T.S.



4 ROUND GOOSENECK DETAIL
M30.02 N.T.S.



5 RECTANGULAR GOOSENECK
M30.02 N.T.S.

ABBREVIATIONS

REFERENCE DESIGN CODES

| | |
|----------|--------------------------------------|
| ACT | ACOUSTICAL CEILING TILE |
| ADA | AMERICANS WITH DISABILITIES ACT |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| ALT | ALTERNATE |
| AP | ACCESS PANEL |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL/ARCHITECT |
| AS | AIR SEPARATOR |
| AUX | AUXILIARY |
| | |
| BFF | BELOW FINISHED FLOOR |
| BFG | BELOW FINISHED GRADE |
| BHP | BRAKE HORSE POWER |
| BLDG | BUILDING |
| BOP | BOTTOM OF PIPE |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BRITISH THERMAL UNIT PER HOUR |
| | |
| CA | COMBUSTION AIR |
| CLG | CEILING |
| CMU | CONCRETE MASONRY UNIT |
| CO | CLEANOUT |
| COND | CONDENSATE |
| CW | COLD WATER |
| CX | CONNECT TO EXISTING |
| | |
| dB | DECIBEL |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY |
| DDCV | DOUBLE DETECTOR CHECK VALVE |
| DDCVA | DOUBLE DETECTOR CHECK VAVLE ASSEMBLY |
| DF | DRINKING FOUNTAIN |
| DFU | DRAINAGE FIXTURE UNIT |
| DHW | DOMESTIC HOT WATER |
| DHWC | DOMESTIC HOT WATER RECIRCULATION |
| Ø OR DIA | DIAMETER |
| DN | DOWN |
| DWG(S) | DRAWING(S) |
| DWV | DRAIN, WASTE, VENT |
| | |
| EA | EACH |
| EEW | EMERGENCY EYEWASH |
| EFF | EFFICIENCY |
| ELEV | ELEVATION |
| EQUIP | EQUIPMENT |
| ES | EMERGENCY SHOWER |
| ET | EXPANSION TANK |
| EX | EXISTING/EXISTING TO REMAIN |
| EXP | EXPANSION |
| | |
| FC | FAIL CLOSED |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| FDC | FIRE DEPARTMENT CONNECTION |
| FF | FINISHED FLOOR |
| FLA | FULL LOAD AMPS |
| FM | FORCE MAIN |
| FO | FAIL OPEN |
| FP | FIRE PROTECTION |
| FFM | FEET PER MINUTE |
| FPS | FEET PER SECOND |
| FS | FLOOR SINK |
| FSZV | FIRE SPRINKLER ZONE VALVE ASSEMBLY |
| FT | FEET/FOOT |
| FTG | FOOTING |
| FV | FLUSH VALVE |
| | |
| G | NATURAL GAS |
| GA | GAUGE |
| GAL | GALLON |
| G.C. | GENERAL CONTRACTOR |
| GCO | GRADE CLEANOUT |
| GD | GARAGE DRAIN |
| GPF | GALLONS PER FLUSH |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GW | GREASE WASTE |
| | |
| H | HEIGHT |
| HB | HOSE BIBB |
| HBVB | HOSE BIBB VACUUM BREAKER |
| HD | HEAD |
| HP | HORSEPOWER |
| HS | HAND SINK |
| HW | HOT WATER |
| HX | HEAT EXCHANGER |
| | |
| IE | INVERT ELEVATION |
| IN | INCH/INCHES |
| | |
| KW | KILOWATT/KILOWATTS |
| | |
| LAV | LAVATORY |
| LBS | POUNDS |
| LF | LINEAL FOOT |
| LTG | LIGHTING |
| LWT | LEAVING WATER TEMPERATURE |

| | |
|----------|--------------------------------------|
| BBH | 1000 BRITISH THERMAL UNITS PER HOUR |
| BED | MEDIUM |
| MEP | MECHANICAL, ELECTRICAL, PLUMBING |
| MEZZ | MEZZANINE |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| | |
| N/A | NOT APPLICABLE |
| NC | NORMALLY CLOSED |
| NEG | NEGATIVE |
| NIC | NOT IN CONTRACT |
| NOM | NOMINAL |
| NPC | NON-POTABLE COLD WATER |
| NPCW | NON POTABLE COLD WATER |
| NPH | NON-POTABLE HOT WATER |
| NPHR | NON-POTABLE HOT WATER RETURN |
| NPT | NATIONAL PIPE THREAD |
| NTS | NOT TO SCALE |
| | |
| OD | OUTSIDE DIAMETER/OVERFLOW DRAIN |
| OFCI | OWNER FURNISHED CONTRACTOR INSTALLED |
| OFOI | OWNER FURNISHED OWNER INSTALLED |
| ORD | OVERFLOW ROOF DRAIN |
| ORL | OVERFLOW RAINWATER LEADER |
| | |
| ΔP | PRESSURE DIFFERENTIAL |
| | |
| PD | PLANTER DRAIN; PRESSURE DROP |
| PERF | PERFORATED |
| PH | PHASE |
| PIV | POST INDICATOR VALVE |
| PLBG | PLUMBING |
| PRESS | PRESSURE |
| PRV | PRESSURE REDUCING VALVE |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PSIG | POUNDS PER INCH GAUGE |
| | |
| QTY | QUANTITY |
| | |
| RD | ROOF DRAIN |
| REQD | REQUIRED |
| RL | RAIN WATER LEADER |
| RM | ROOM |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| RPM | REVOLUTIONS PER MINUTE |
| RLX | RELOCATE EXISTING |
| RV | RELIEF VALVE |
| RX | REMOVE EXISTING |
| | |
| S | SINK |
| S | STORM |
| SCFM | STANDARD CUBIC FEET PER MINUT |
| SD | STORM DRAIN |
| SF | SQUARE FOOT |
| SFU | SUPPLY FIXTURE UNIT |
| SH | SHOWER |
| S.O.V. | SHUTOFF VALVE |
| SPEC | SPECIFICATION |
| S, OR SS | STAINLESS STEEL |
| STD | STANDARD |
| SYM | SYMBOL |

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COVER SHEET

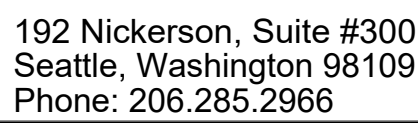
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| <u>MARK</u> | <u>ITEM</u> | <u>MFR: MODEL</u> | <u>DESCRIPTION</u> |
|-------------|--------------------------------|----------------------------|---|
| S-1 | SINK | BRADLEY: WF2704 | 54" SEMI-CIRCULAR, STAINLESS STEEL WASHFOUNTAIN. PROVIDE STAINLESS STEEL BACKSPASH, STD MOUNTING HEIGHT, FOOT ACTIVATION. PROVIDE WITHOUT SOAP OR TOWEL DISPENSER. |
| WH | WATER HEATER | BRADFORD WHITE: RE330S6 | 30 GALLON UPRIGHT ELECTRIC WATER HEATER. 3000 W, NON-SIMULTANEOUS ELEMENTS, 14 GPH RECOVERY. 208V, 1 PHASE. |
| ET | DOMESTIC EXPANSION TANK | AMTROL: ST-12 | STEEL CONST. W/INTERNAL DIAPHRAGM 11" DIA. X 15" HIGH. |
| RD | ROOF DRAIN | ZURN: Z-100-C-R | 15" DIAMETER CAST IRON BODY, 3" PIPE SIZE, ALUMINUM DOME, UNDER-DECK CLAMP. |
| OD | ROOF DRAIN | ZURN: Z-100-C-R-W2 | 15" DIAMETER CAST IRON BODY, 3" PIPE SIZE, ALUMINUM DOME, UNDER-DECK CLAMP, 2" HIGH DAM. |
| GD | GARAGE DRAIN | JOSAM: 32200-SD-81 | 4" OUTLET, C.I. BODY, 12" DIA. COATED CAST IRON STRAINER, SPECIAL DUTY GRATE, SLOTTED CAST IRON BUCKET REFER TO FLOOR DRAIN DETAIL FOR DRAIN CONST. &/OR COVERING. |
| HB-1 | HOSE BIBB (LEVER HANDLE) | WOODFORD: 40HT-LH | BRASS CONST., 3/4" HOSED END, VAC. BKR., HALF TURN LEVER HANDLE, CHROME PLATED. |
| EW | EMERGENCY EYE WASH | HAWS: 7360BT- 7460BT | WALL MOUNTED EYEWASH STATION, STAINLESS STEEL BOWL. |
| | MIXING VALVE | AXION 9201 EW | THERMOSTATIC MIXING VALVE, MAX 10 GPM. |
| | DUST COVER | 9102 | STAINLESS STEEL DUST COVER TO PROTECT EYEWASH HEADS AND BOWL. |
| HR | WATER HOSE REEL | REELCRAFT: CA33112 L | HAND CRANK HOSE REEL ON MOUNTING CHANNEL. PROVIDE WITH 75 FEET OF 3/4" HOSE & WALL MOUNTING RAIL. |

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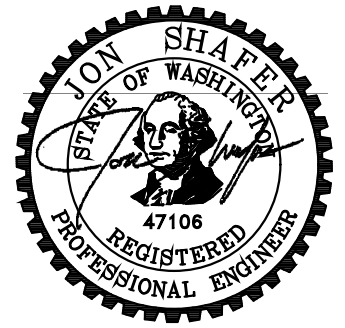
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NOTES AND SCHEDULES

P00.02



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REVISION SCHEDULE

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DEMOLITION FLOOR
PLAN

SHEET #

P20.01



DEMOLITION FLOOR PLAN

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



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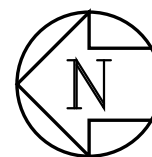
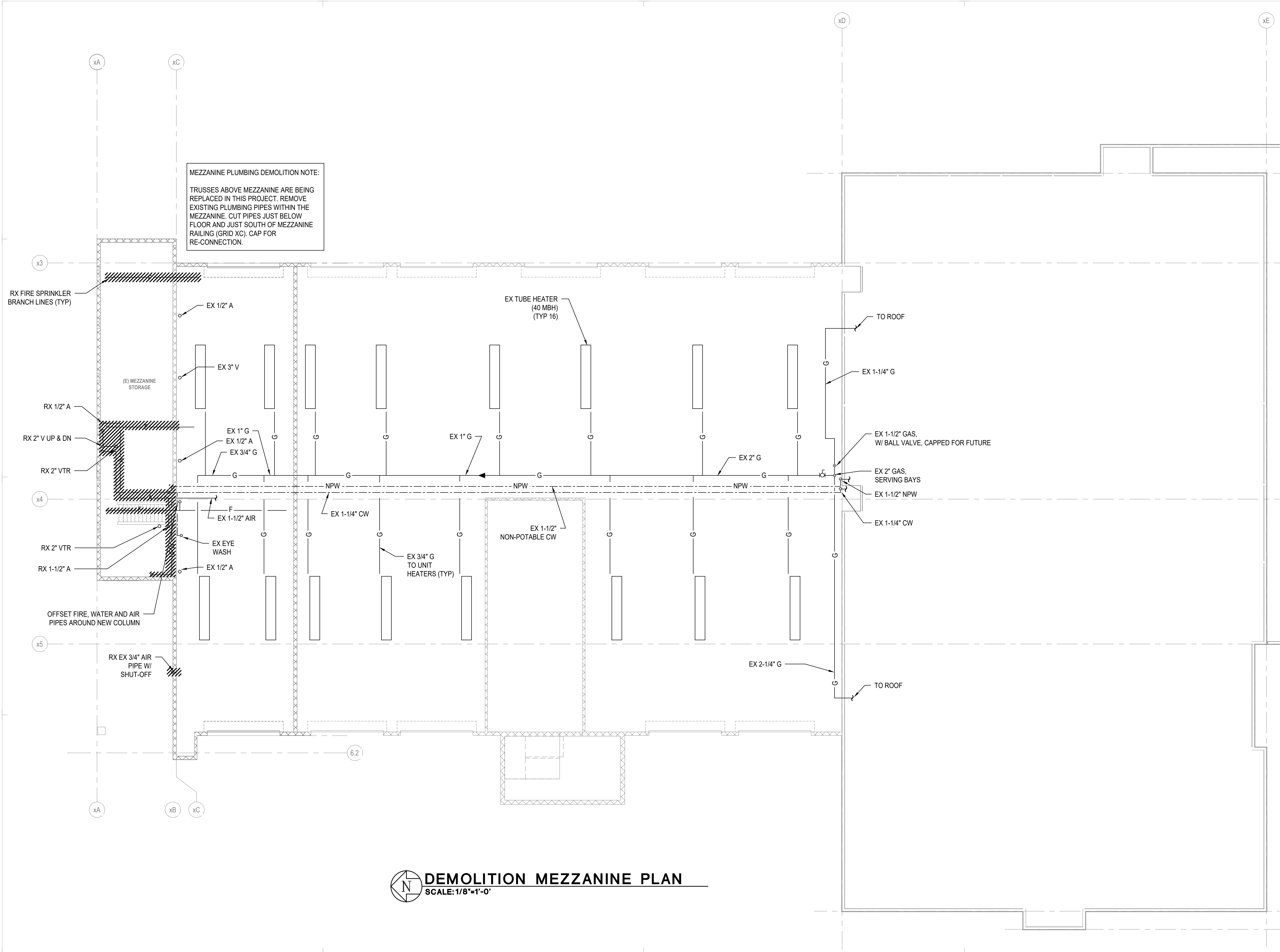
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DEMOLITION MEZZANINE
PLAN

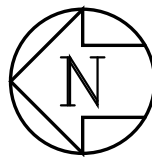
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DEMOLITION MEZZANINE PLAN


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



DEMOLITION ROOF PLAN

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

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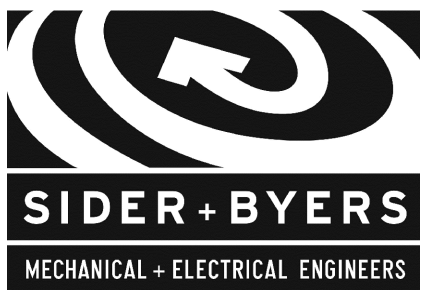
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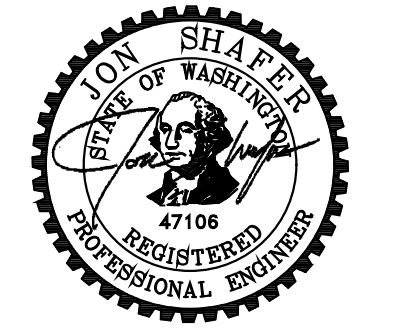
DEMOLITION ROOF PLAN

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P20.03



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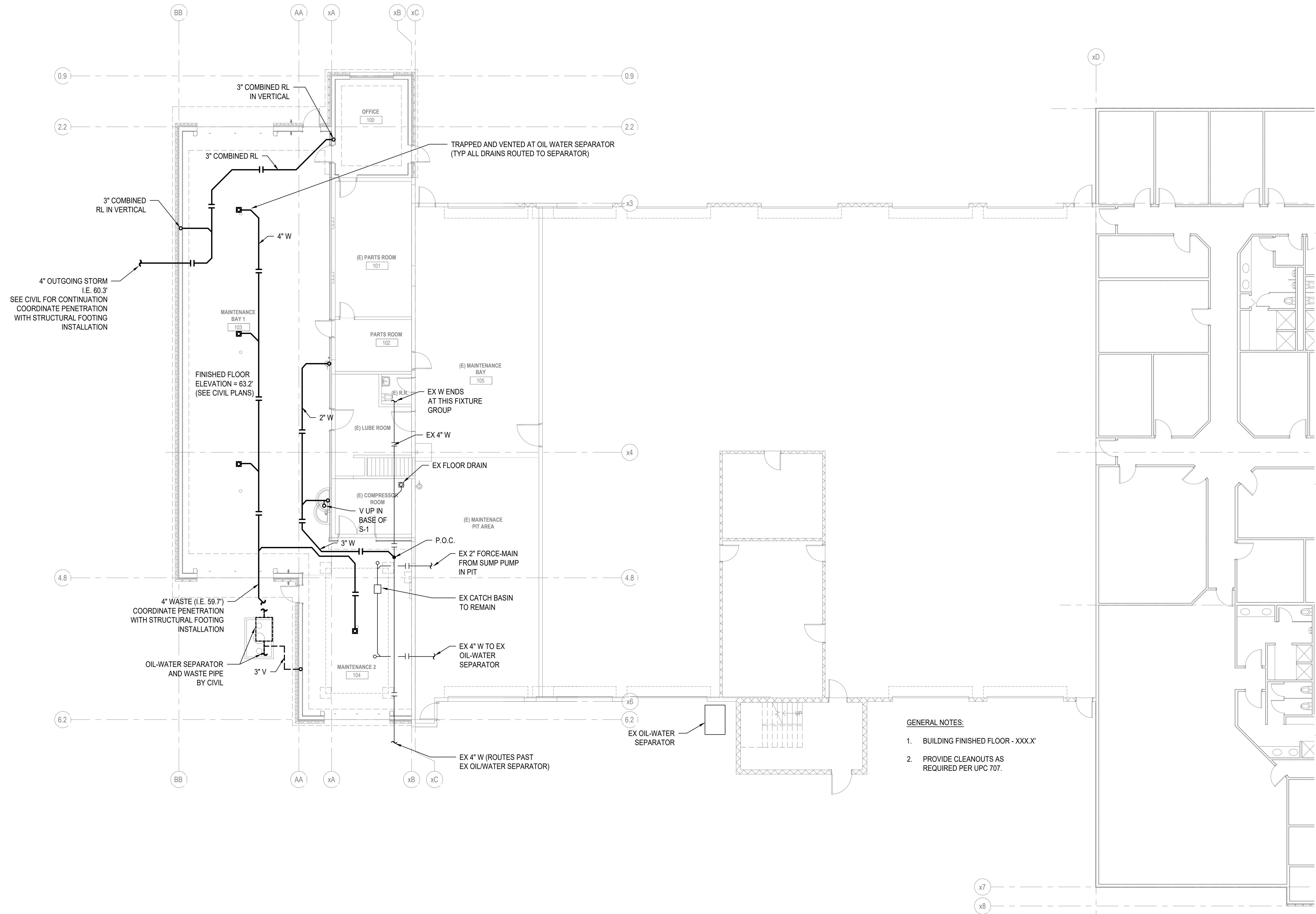
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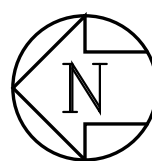
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FOUNDATION PLAN

SHEET #

P22.00



 **FOUNDATION PLAN**
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
- BUILDING FINISHED FLOOR - XXX'X'
 - PROVIDE CLEANOUTS AS REQUIRED PER UPC 707.

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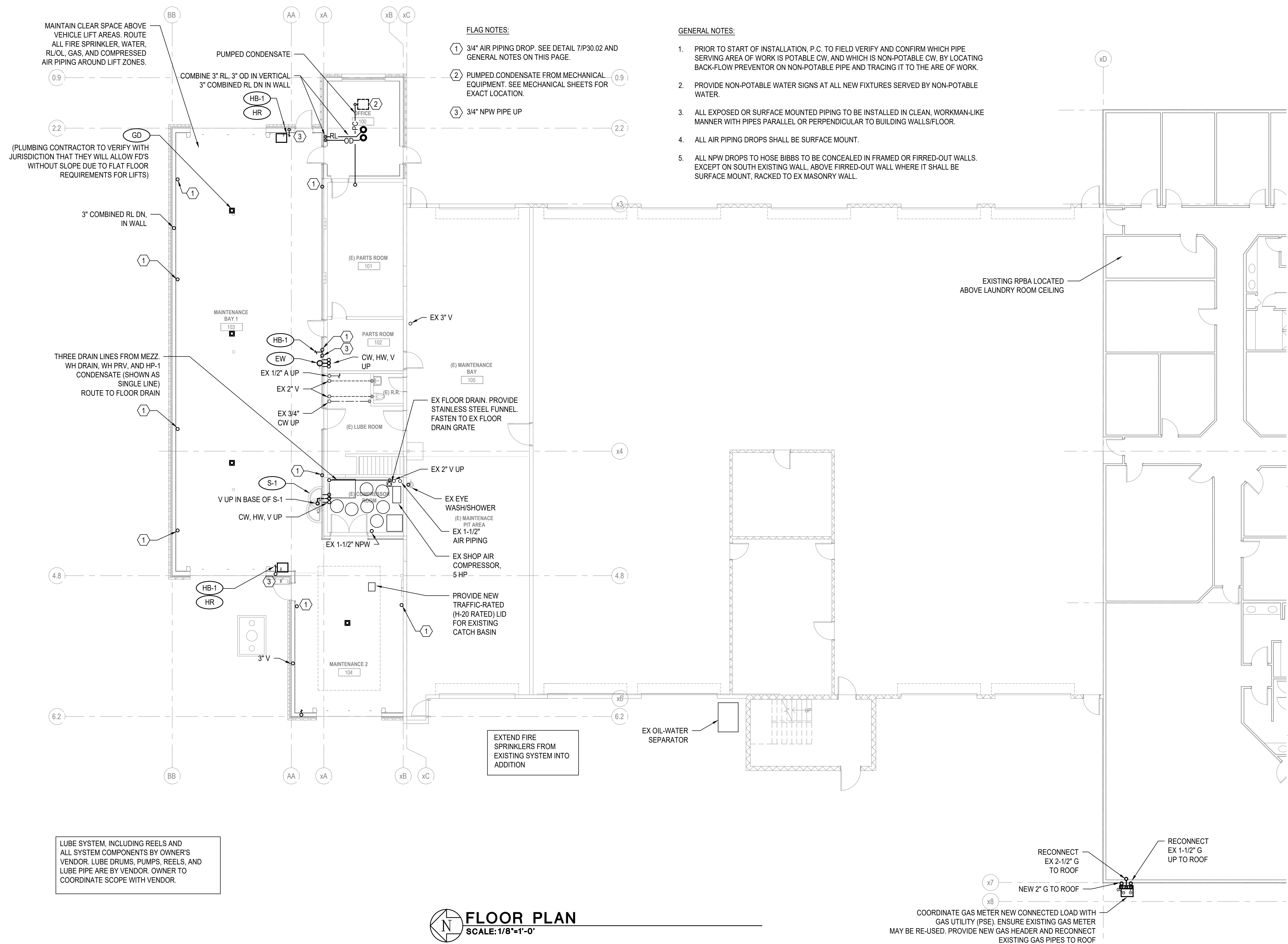
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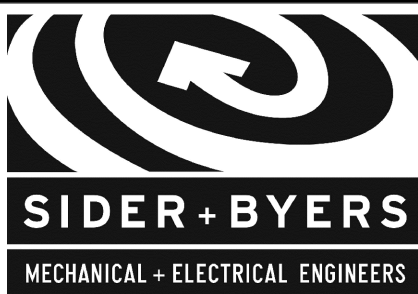
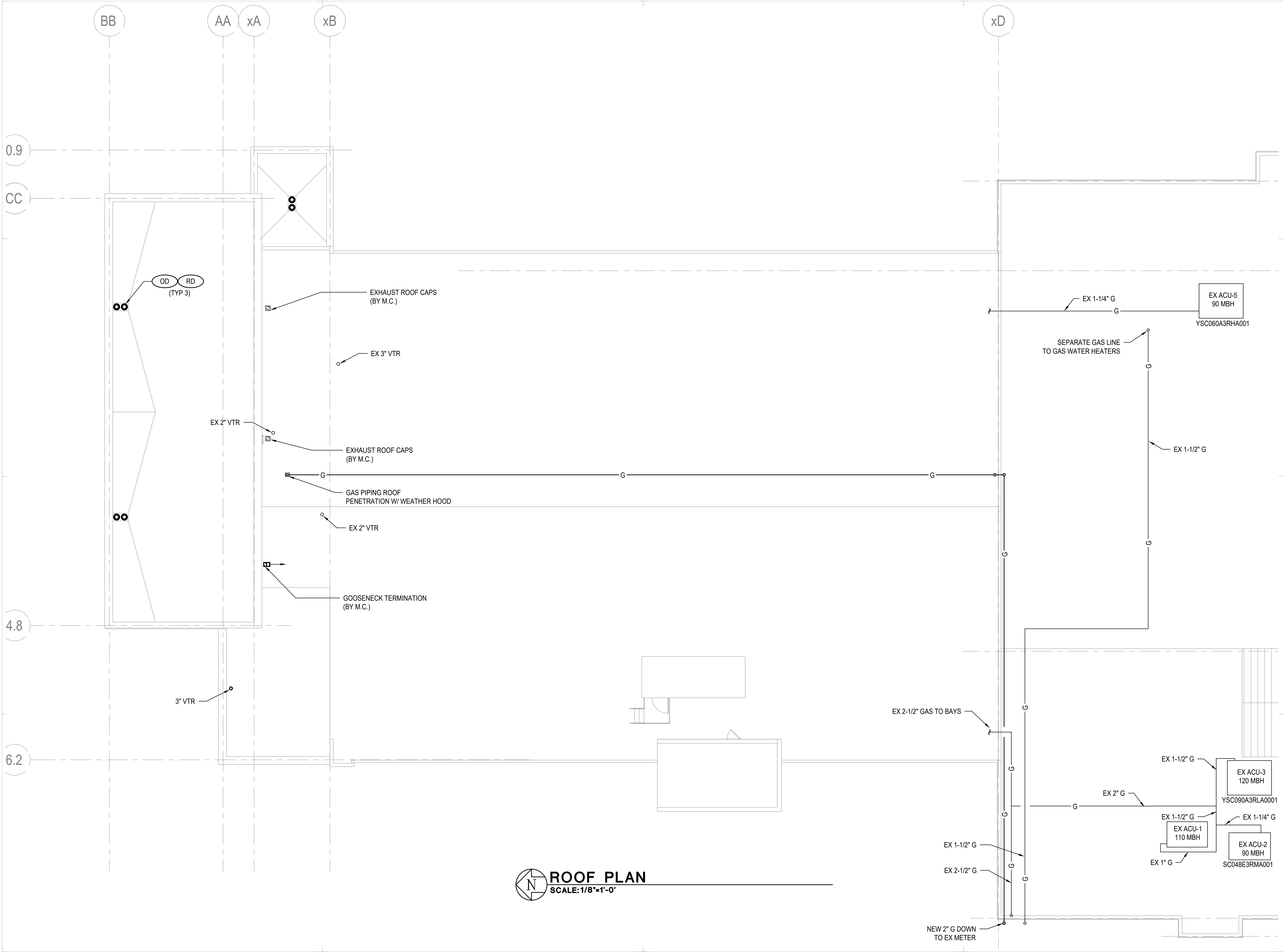
AHJ APPROVAL STAMP

FLOOR PLAN

SHEET #

P22.01





SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

PROJECT # 22041

BID SET

ISSUE DATE 3/22/2024

| REVISION SCHEDULE | |
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AHJ APPROVAL STAMP

ROOF PLAN

SHEET #

P22.03

SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

PROJECT # 22041

BID SET

ISSUE DATE 3/22/2024

REVISION SCHEDULE

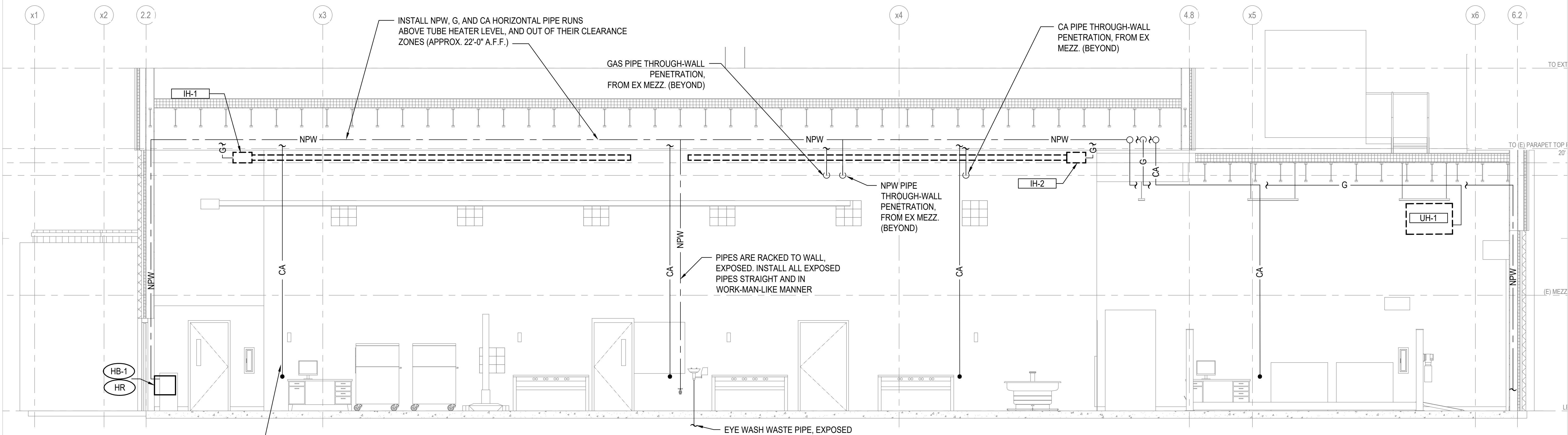
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AHJ APPROVAL STAMP

PLUMBING SECTIONS

SHEET #

P23.01

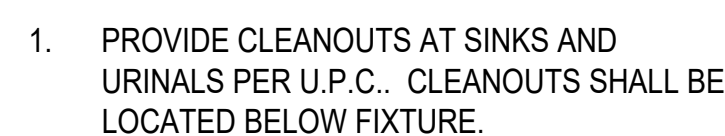


1 SECTION FACING SOUTH
P23.01 1/4"=1'-0"

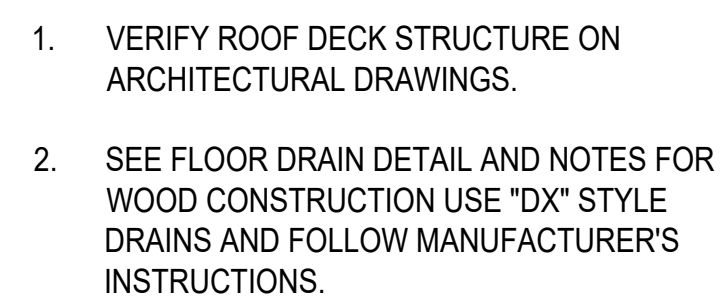


1. VERIFY FLOORING CONSTRUCTION BEFORE ORDERING DRAINS.
2. FLOOR DRAINS SHALL BE FLUSH TO 1/4" BELOW FINISHED FLOOR. FLOOR SINKS SHALL BE 1/2" ABOVE TO 1/4" BELOW FINISHED FLOOR. VERIFY WITH LOCAL PLUMBING INSPECTOR.

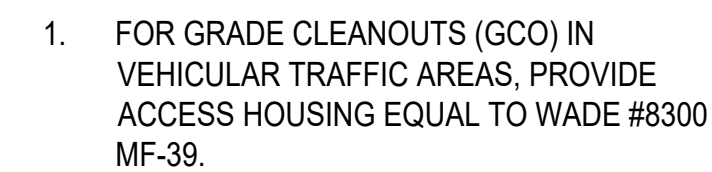
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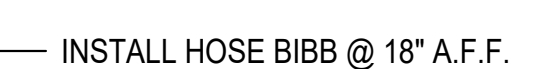
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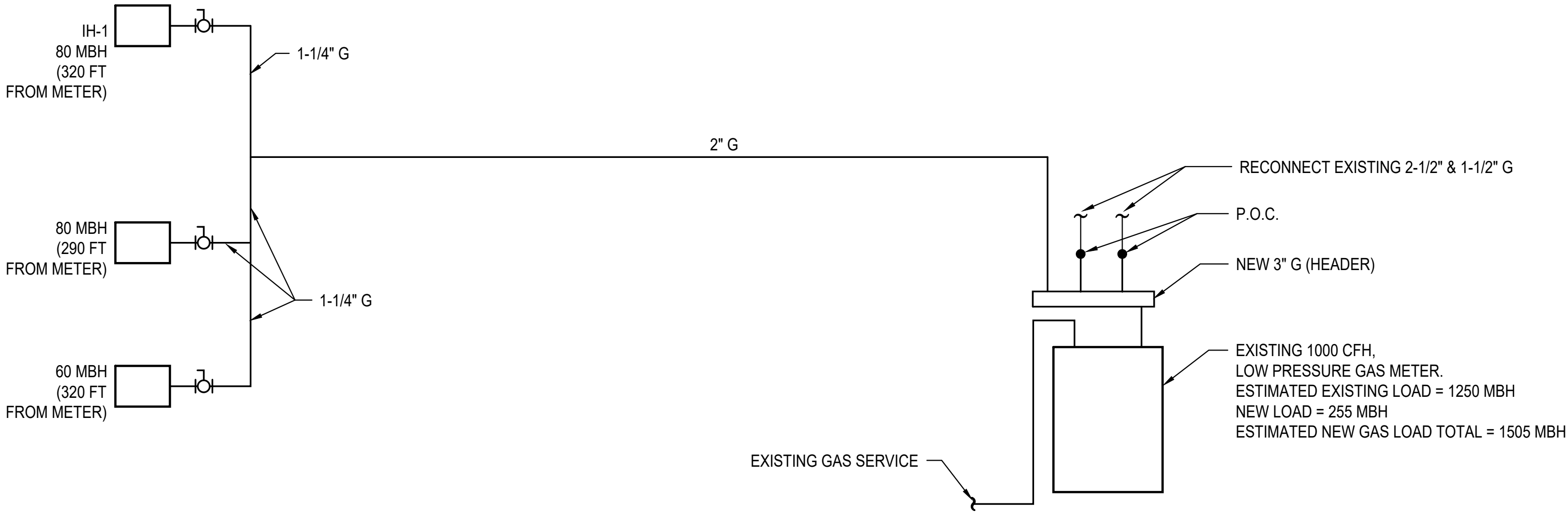
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P30.03

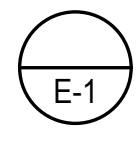


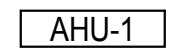
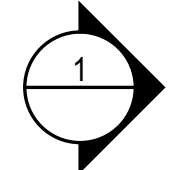
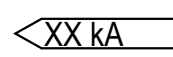






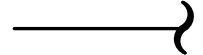
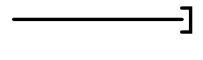
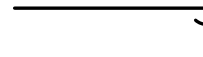
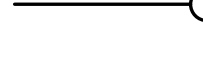
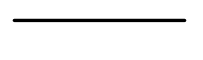
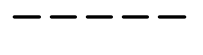
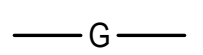
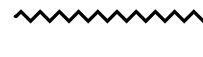

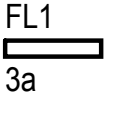
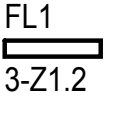
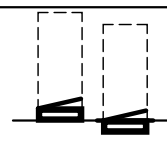
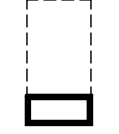




















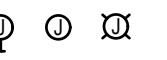




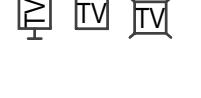
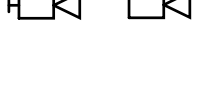
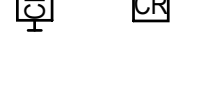
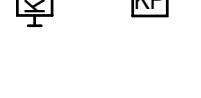


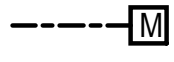







GAS RISER DIAGRAM

N.T.S.

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| PROJECT # | 22041 |
| BID SET | |
| ISSUE DATE | 3/22/2024 |
| REVISION SCHEDULE | |
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DETAILS

ELECTRICAL SYMBOLS LEGEND

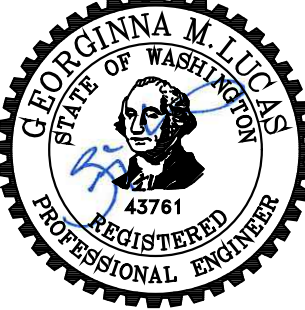
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|---|--|---|
| <p>REFERENCE SYMBOLS</p> <div>  <div> <p>DETAIL NUMBER SHEET</p> </div> </div> <div>  <div> <p>FLAG NOTE</p> </div> </div> <div>  <div> <p>REVISION TAG</p> </div> </div> <div>  <div> <p>MECHANICAL EQUIPMENT</p> </div> </div> <div>  <div> <p>SECTION NUMBER SHEET NUMBER</p> </div> </div> <div>  <div> <p>FAULT CURRENT TAG</p> </div> </div> <p>FIRE ALARM SYMBOLS</p> <div>  <div> <p>OR</p> <p>COMBINATION SMOKE/FIRE DAMPER</p> </div> </div> <div>  <div> <p>FIRE ALARM CONTROL PANEL</p> </div> </div> <div>  <div> <p>FIRE ALARM REMOTE ANUNCIATOR</p> </div> </div> <div>  <div> <p>FIRE ALARM STROBE LIGHT</p> </div> </div> <div>  <div> <p>FIRE ALARM SMOKE DETECTOR</p> </div> </div> <div>  <div> <p>FIRE ALARM COMBINATION SMOKE DETECTOR / CARBON MONOXIDE ALARM</p> </div> </div> <p>WIRING SYMBOLS</p> <div>  <div> <p>BREAK (CONTINUATION)</p> </div> </div> <div>  <div> <p>CAP</p> </div> </div> <div>  <div> <p>STUB DOWN</p> </div> </div> <div>  <div> <p>STUB UP</p> </div> </div> <div>  <div> <p>CONDUIT / CABLING CONCEALED IN CEILING OR WALL</p> </div> </div> <div>  <div> <p>CONDUIT / CABLING CONCEALED UNDERGROUND OR IN CEILING SPACE OF LEVEL BELOW</p> </div> </div> <div>  <div> <p>GROUNDING CONDUCTOR(S) PER CODE</p> </div> </div> <div>  <div> <p>FLEXIBLE CONDUIT</p> </div> </div> <p>LUMINAIRE SYMBOLS</p> <div>  <div> <p>SHADING AND/ OR "EM" INDICATES EMERGENCY EGRESS LUMINAIRES</p> </div> </div> <div> <div>   </div> <div> <p><u>TYPICAL LUMINAIRE ANNOTATIONS:</u></p> <p>FL1 = LUMINAIRE TYPE</p> <p>3 = CIRCUIT NUMBER</p> <p>c = SWITCH LEG</p> <p>Z1.2 = CONTROL ZONE</p> </div> </div> | <p>POWER SYSTEMS SYMBOLS</p> <div>  <div> <p>PANELBOARD: SURFACE, FLUSH MOUNTED. DASHED LINE = CLEARANCE (TYPICAL)</p> </div> </div> <div>  <div> <p>ELECTRICAL DISTRIBUTION EQUIPMENT. SEE PLANS FOR TYPE, DIMENSIONS, NAME, ETC. DASHED LINE = CLEARANCE (TYPICAL)</p> </div> </div> <div>  <div> <p>CONNECTION TO EQUIPMENT BY OTHERS</p> </div> </div> <div>  <div> <p>CONNECTION TO MOTOR</p> </div> </div> <div>  <div> <p>DISCONNECT SWITCH, FUSED</p> </div> </div> <div>  <div> <p>DISCONNECT SWITCH, CB</p> </div> </div> <div>  <div> <p>DISCONNECT SWITCH</p> </div> </div> <div>  <div> <p>VARIABLE FREQUENCY DRIVE</p> </div> </div> <div>  <div> <p>EMERGENCY POWER OFF BUTTON</p> </div> </div> <div>  <div> <p>GROUND BAR</p> </div> </div> <div>  <div> <p>GROUND ROD</p> </div> </div> <div>  <div> <p>JUNCTION BOX: WALL, FLOOR AND CEILING MTD</p> </div> </div> <div>  <div> <p>RECEPTACLE, DUPLEX: WALL, FLOOR AND CLG MTD; PARALLEL SHADED = HALF-SWITCHED</p> </div> </div> <div>  <div> <p>RECEPTACLE, DUPLEX: WALL MTD ABOVE BACKSPLASH, GFCI-TYPE</p> </div> </div> <div>  <div> <p>RECEPTACLE, DOUBLE DUPLEX: WALL, FLOOR AND CLG MTD; PARALLEL SHADED = HALF-SWITCHED</p> </div> </div> <div>  <div> <p>RECEPTACLE, DOUBLE DUPLEX: WALL MTD ABOVE BACKSPLASH, GFCI-TYPE</p> </div> </div> <div>  <div> <p>RECEPTACLE, SIMPLEX: WALL, FLOOR AND CLG MTD</p> </div> </div> <div>  <div> <p>RECEPTACLE, SIMPLEX: WALL MTD ABOVE BACKSPLASH, GFCI-TYPE</p> </div> </div> <div>  <div> <p>SPECIALTY RECEPTACLE: WALL, FLOOR AND CLG MTD. NEMA TYPE AS INDICATED ON PLANS.</p> </div> </div> <div> <p><u>TYPICAL DEVICE ANNOTATIONS:</u></p> <p>ON ALTERNATE POWER: 700, 701 AND 702 SYSTEMS PER NEC</p> </div> <div>  <div> <p>WEATHERPROOF</p> </div> </div> <div>  <div> <p>GFCI TYPE</p> </div> </div> <p>LOW VOLTAGE SYSTEMS SYMBOLS</p> <div>  <div> <p>PUSHBUTTON. WALL-MOUNTED.</p> </div> </div> <div>  <div> <p>JUNCTION BOX: WALL, FLOOR AND CEILING MTD</p> </div> </div> <div>  <div> <p>COMBINATION RF COAX / PHONE OUTLET WALL, FLOOR AND CEILING MTD</p> </div> </div> <div>  <div> <p>COMBINATION DATA / PHONE OUTLET WALL, FLOOR AND CEILING MTD</p> </div> </div> <div>  <div> <p>DATA OUTLET WALL, FLOOR AND CEILING MTD</p> </div> </div> <div>  <div> <p>PHONE OUTLET WALL, FLOOR AND CEILING MTD</p> </div> </div> <div>  <div> <p>RF COAX CABLE OUTLET WALL, FLOOR AND CEILING MTD</p> </div> </div> <div>  <div> <p>CCTV SECURITY CAMERA; FIXED WALL AND CEILING MTD</p> </div> </div> <div>  <div> <p>CARD / FOB READER WALL/ MULLION AND BOLLARD MTD</p> </div> </div> <div>  <div> <p>KEYPAD WALL/ MULLION AND BOLLARD MTD</p> </div> </div> <div>  <div> <p>SECURITY DOOR POSITION MONITOR</p> </div> </div> <div>  <div> <p>ELECTRIC STRIKE</p> </div> </div> | <p>CONTROL SYMBOLS</p> <div>  <div> <p>MOTORIZED CONTROL DAMPER</p> </div> </div> <div>  <div> <p>THERMOSTAT</p> </div> </div> <div>  <div> <p>WALL SWITCH / LOW VOLTAGE WALL STATION. SUPERScript INDICATES SWITCH TYPE (BELOW). SUBSCRIPT INDICATES SWITCHLEGS / RELAYS CONTROLLED; FOR MULTI-POLE WALL STATIONS, CONTROL FOR EACH POLE SEPARATED BY COMMA (I.E. SWITCHLEGS a AND b CONTROLLED BY ONE POLE, c ANOTHER).</p> </div> </div> <div>  <div> <p>OR</p> <p>OVERRIDE SWITCH FOR CENTRAL TIME SWEEP SYSTEM, TYPICAL</p> </div> </div> <div>  <div> <p>WALL DIMMER LINE VOLTAGE, 1-POLE</p> </div> </div> <div>  <div> <p>WALL SWITCH, LINE VOLTAGE, 1-POLE</p> </div> </div> <div>  <div> <p>WALL SWITCH, LINE VOLTAGE, 3-WAY</p> </div> </div> <div>  <div> <p>WALL SWITCH, LINE VOLTAGE, 4-WAY</p> </div> </div> <div> </div> |
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ABBREVIATIONS

| | | | |
|----------|--|------------|----------------------------------|
| AMP | AMPERES | LBS | POUNDS |
| AB | ABOVE BACKSPASH | LCP | LIGHTING CONTROL PANEL |
| AC | ALTERNATING CURRENT | LCZ | LIGHTING CONTROL ZONE |
| ACT | ACOUSTICAL CEILING TILE | LF | LINEAL FOOT |
| ADA | AMERICANS WITH DISABILITIES ACT | LRA | LOCKED ROTOR AMPS |
| ADJ | ADJUSTABLE | LRT | LIGHTING |
| AF | AMPERE RATING OF FUSE OR CB FRAME | | |
| AFF | ABOVE FINISHED FLOOR | MAX | MAXIMUM |
| AFG | ABOVE FINISHED GRADE | MCA | MINIMUM CIRCUIT AMPACITY |
| AIC | AMPERE INTERRUPTING CAPACITY, | MED | MEDIUM |
| | AMPERE INTERRUPTING RATING | MEP | MECHANICAL, ELECTRICAL |
| AL | ALUMINUM (ALLOY) | | & PLUMBING |
| ALT | ALTERNATE | | & PLUMBING |
| APPROX | APPROXIMATE | MEZZ | MEZZANINE |
| ARCH | ARCHITECTURAL/ARCHITECT | MIN | MINIMUM OR MINUTE |
| AS | AMPERE RATING OF SWITCH | MISC | MISCELLANEOUS |
| AT | CB TRIP SETTING (AMPS) | MLO | MAN LUGS ONLY |
| ATS | AUTOMATIC TRANSFER SWITCH | MNT | MOUNTED |
| AUTO | AUTOMATIC | MOCP | MAXIMUM OVERCURRENT PROTECTION |
| AUX | AUXILIARY | | |
| AWG | AMERICAN WIRE GAUGE | N/A | NOT APPLICABLE |
| | | N | NEUTRAL |
| BFF | BELOW FINISHED FLOOR | NC | NORMALLY CLOSED |
| BHP | BRAKE HORSE POWER | NEC | NATIONAL ELECTRICAL CODE |
| BLDG | BUILDING | -, NEG | NEGATIVE |
| | | NEMA | NATIONAL ELECTRICAL MANUFACTURER |
| C | CONDUIT | | ASSOCIATION |
| CB | CIRCUIT BREAKER | NIC | NOT IN CONTRACT |
| CFM | CUBIC FEET PER MINUTE | NL | NIGHT LIGHT (UNSWITCHED) |
| CKT | CIRCUIT | NO | NORMALLY OPEN |
| CLG | CEILING | NOM | NOMINAL |
| CO | CARBON MONOXIDE | NPT | NATIONAL PIPE THREAD |
| CO2 | CARBON DIOXIDE | NTS | NOT TO SCALE |
| CONN | CONNECTED | (N) | NEW LOAD / EQUIPMENT |
| CT | CURRENT TRANSFORMER | | |
| CU | COPPER | OC | ON CENTER |
| | | OCC | OCCUPANCY |
| (D) | DEMOLISH | OD | OUTSIDE DIAMETER |
| dB | DECIBEL | OS | OCCUPANCY SENSOR |
| DC | DIRECT CURRENT | | |
| °OR DEG. | DEGREE | P | POLE |
| DIA | DIAMETER | PC | PHOTOCELL |
| DISC | DISCONNECT | PERF | PERFORATED |
| DIST | DISTRIBUTION | Φ OR PH | PHASE |
| DIV | DIVISION | PNL | PANELBOARD |
| DN | DOWN | POC | POINT OF CONNECTION |
| DP | DISTRIBUTION PANEL | PSF | POUNDS PER SQUARE FOOT |
| DWG(S) | DRAWING(S) | PSI | POUNDS PER SQUARE INCH |
| DZ | DAYLIGHT CONTROL ZONE (LIGHTING) | | |
| | | QTY | QUANTITY |
| EA | EACH | | |
| EM | EMERGENCY (700 SYSTEM) | REQ | REQUIRED |
| EMT | ELECTRICAL METALLIC TUBING | RL | RELOCATE EXISTING |
| EF | EXHAUST FAN | RM | ROOM |
| EWC | ELECTRIC WATER COOLER | RMC | RIGID METALLIC CONDUIT |
| EWH | ELECTRIC WATER HEATER | RNC | RIGID NON-METALLIC CONDUIT (PVC) |
| EX | EXISTINGEXISTING TO REMAIN | RPM | REVOLUTIONS PER MINUTE |
| | | RTU | ROOF TOP UNIT |
| FA | FIRE ALARM | RV | RELIEF VALVE |
| FACP | FIRE ALARM CONTROL PANEL | RX | REMOVE EXISTING |
| FARA | FIRE ALARM REMOTE ANUNCIATOR | | |
| FC | FOOTCANDLES | SA | SUPPLY AIR |
| FF | FINISHED FLOOR | SD | SMOKE DETECTOR |
| FLA | FULL LOAD AMPS | SF | SQUARE FOOT |
| FLEX | FLEXIBLE | SPEC | SURGE PROTECTION DEVICE |
| FP | FIRE PROTECTION | | SPECIFICATION |
| FPM | FEET PER MINUTE | S/S, OR SS | STAINLESS STEEL |
| FPS | FEET PER SECOND | STD | STANDARD |
| FSD | FIRE SMOKE DAMPER | SWBD | SWITCHBOARD |
| FT | FEET/FOOT | | |
| FTG | FOOTING | T&P | TEMPERATURE AND PRESSURE |
| FOIC | FURNISHED BY OWNER | | RELIEF VALVE |
| | INSTALLED BY CONTRACTOR | TBD | TO BE DETERMINED |
| FOIO | FURNISHED BY OWNER | TC | TIMECLOCK |
| | INSTALLED BY OWNER | TEL | TELEPHONE |
| | | TELECOM | TELECOMMUNICATIONS |
| G, GND | GROUND | TEMP | TEMPERATURE |
| GA | GAUGE | TOB | TOP OF BEAM |
| GAL | GALLON | TOC | TOP OF CONCRETE |
| GALV | GALVANIZED | TOD | TOP OF DECK |
| GC | GENERAL CONTRACTOR | TOJ | TOP OF JOIST |
| GEN | GENERATOR | TOS | TOP OF SLAB/TOP OF STEEL |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER | T&P | TEMPERATURE & PRESSURE |
| GFP | GROUND FAULT PROTECTION | TSP | TOTAL STATIC PRESSURE |
| GRC | GALVANIZED RIGID STEEL CONDUIT | TPY | TYPICAL |
| | | | |
| H | HEIGHT | UL | UNDERWRITERS LABORATORY |
| HP | HORSEPOWER | UNO | UNLESS NOTED OTHERWISE |
| HTR | HEATER | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| HVAC | HEATING VENTILATING AND AIR CONDITIONING | UTR | UP THROUGH ROOF |
| | | | |
| HV | HOT WATER | V | VOLT |
| HX | HEAT EXCHANGER | VA | VOLT AMPS |
| HZ | HERTZ | VERT | VERTICAL |
| | | VFD | VARIABLE FREQUENCY DRIVE |
| | | VOL | VOLUME |
| ID | INSIDE DIAMETER/DIMENSION | | |
| IESNA | ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA | W | WATT |
| IG | ISOLATED GROUND | W/ | WITH |
| IMC | INTERMEDIATE METAL CONDUIT | WIN | WITHIN |
| IN | INCHINCHES | W/O | WITHOUT |
| | | WP | WEATHERPROOF |
| KCMIL | THOUSAND CIRCULAR MILS | WT | WEIGHT |
| KO | KNOCK OUT | | |
| KW | KILOWATT/KILOWATTS | XFR | TRANSFORMER |
| KWH | KILOWATT HOUR(S) | | |
| KVA | KILOVOLT AMPS | | |

DRAWING LIST

| | |
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| E00.01 | COVER SHEET |
| E00.02 | PROJECT NOTES |
| E00.03 | ONE-LINE DIAGRAM & LOAD CALC'S |
| E00.04 | EQUIPMENT AND PANEL SCHEDULES |
| E00.05 | LIGHTING SCHEDULES |
| E10.01 | SITE PLAN - ELECTRICAL |
| E10.05 | ALTERNATE #1: CARPORT - ELECTRICAL SCOPE |
| E20.01 | DEMOLITION FLOOR PLAN |
| E20.02 | DEMOLITION MEZZANINE PLAN |
| E21.01 | POWER FLOOR PLAN |
| E22.02 | MECHANICAL POWER FLOOR PLAN |
| E22.03 | MECHANICAL POWER ROOF PLAN |
| E23.01 | LOW VOLTAGE SYSTEMS FLOOR PLAN |
| E30.01 | LIGHTING PLAN |

PROJECT # 22041BID SET

ISSUE DATE 3/22/2024

[illegible]

HJ APPROVAL STAMP

ENERGY CODE NOTES

3. SEE THE LUMINAIRE SCHEDULE AND THE LIGHTING PLANS FOR LIGHTING AND LIGHTING CONTROL REQUIREMENTS. SYSTEMS SHALL MEET THE REQUIREMENTS OF C405.2 AND C405.4 AS NOTED ON SHEET E33.01.
2. OCCUPANCY SENSORS SHALL FAIL ON AND AUTOMATICALLY TURN OFF LUMINAIRES IN THEIR COVERAGE AREA WITHIN 15 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE UNLESS NOTED OTHERWISE ON THE PLANS. SEE LIGHTING CONTROL SCHEDULES FOR ADDITIONAL FUNCTIONALITY REQUIREMENTS.
3. EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER SIDE.
4. ALL NEW LUMINAIRES BEING INSTALLED IN THE ADDITION SPACES ARE TO BE LED SOURCE AND QUALIFY AS HIGH-EFFICACY BY THE ENERGY CODE.
5. LUMINAIRES IN ALL DAYLIGHT ZONES AS DEFINED BY THE ENERGY CODE SHALL BE PROVIDED WITH DIMMING CAPABILITIES. LUMINAIRES WITHIN THE PRIMARY AND SECONDARY DAYLIGHT ZONES SHALL AUTOMATICALLY DIM IN RESPONSE TO AVAILABLE DAYLIGHT PER CODE REQUIREMENTS.
6. LUMINAIRES IN THE PRIMARY AND SECONDARY DAYLIGHT ZONES SHALL BE CONTROLLED INDEPENDENTLY OF EACH OTHER AND OF NON-DAYLIGHT AREAS; SEE LIGHTING PLANS FOR SPECIFIC CONTROL REQUIREMENTS FOR EACH SPACE. LUMINAIRES IN TOPLIGHT DAYLIGHT ZONES SHALL BE CONTROL SEPARATELY FROM LUMINAIRES IN SIDELIGHT DAYLIGHT ZONES.
7. DAYLIGHT RESPONSIVE CONTROLS WITHIN EACH SPACE SHALL BE CONFIGURED TO COMPLETELY SHUT OFF ALL CONTROLLED LIGHTS EACH THAT ZONE AND SO THAT THEY CAN BE CALIBRATED FROM WITHIN THAT SPACE BY AUTHORIZED PERSONNEL, CALIBRATION MECHANISMS SHALL BE READILY ACCESSIBLE.
8. DAYLIGHT RESPONSIVE CONTROLS SHALL INCORPORATE TIME-DELAY CIRCUITS TO PREVENT CYCLING OF LIGHT LEVEL CHANGES OF LESS THAN THREE MINUTES.
9. A SINGLE DAYLIGHT RESPONSIVE CONTROL SHALL NOT CONTROL AN AREA LARGER THAN 2,500 SQUARE FEET.
10. OCCUPANT OVERRIDE OF DAYLIGHT DIMMING CONTROLS IS NOT PERMITTED OTHER THAN TO REDUCE LIGHT OUTPUT FROM THE LEVEL ESTABLISHED BY THE DAYLIGHTING CONTROLS.
11. LUMINAIRES SERVING THE EXIT ACCESS AND PROVIDING MEANS OF EGRESS ILLUMINATION REQUIRED BY THE IBC SHALL BE CONTROLLED BY A COMBINATION OF LISTED EMERGENCY RELAY AND OCCUPANCY SENSORS OR SIGNAL FROM ANOTHER BUILDING CONTROL SYSTEM THAT AUTOMATICALLY SHUTS OFF THE LIGHTING WHEN THE AREAS SERVED BY THAT ILLUMINATION ARE UNOCCUPIED. SEE LIGHTING PLANS.
12. EXTERIOR LUMINAIRES MOUNTED DIRECTLY TO THE BUILDING SHALL BE CONNECTED TO THE EXISTING LIGHTING CONTROL SYSTEM IN ORDER TO OPERATE IN UNISON WITH THE EXISTING EXTERIOR LIGHTING. SEE THE LIGHTING PLANS FOR SPECIFIC CONTROL REQUIREMENTS.
13. EXTERIOR LUMINAIRES THAT ARE INTENDED TO LIGHT THE BUILDING FACADE OR LANDSCAPE SHALL HAVE CONTROLS THAT AUTOMATICALLY SHUT OFF THE LIGHTING AS A FUNCTION OF DAWN / DUSK AND A SET OPENING AND CLOSING TIME.
14. EXTERIOR LUMINAIRES OTHER THAN BUILDING FACADE AND LANDSCAPE LIGHTING AND LIGHTING FOR COVERED VEHICLE ENTRANCES OR EXITS FROM BUILDINGS OR PARKING STRUCTURES SHALL HAVE CONTROLS CONFIGURED TO AUTOMATICALLY REDUCE CONNECTED LIGHTING POWER BY AT LEAST 30 PERCENT FROM NO LATER THAN MIDNIGHT TO 6AM OR FROM ONE HOUR AFTER BUSINESS CLOSING TO ONE HOUR BEFORE BUSINESS OPENING OR DURING ANY PERIOD WHEN NO ACTIVITY HAS BEEN DETECTED FOR A PERIOD OF NO LONGER THAN 15 MINUTES.
15. THE TOTAL VOLTAGE DROP ACROSS THE COMBINATION OF FEEDERS AND BRANCH CIRCUITS SHALL NOT EXCEED 5% PER THE REQUIREMENTS OF THE 2018 ENERGY CODE.
16. ELECTRICAL TRANSFORMERS, EXCEPT THOSE MEETING EXCLUSION REQUIREMENTS OF C405.6, SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLE C405.6 IN THE WASHINGTON STATE ENERGY CODE AS TESTED AND RATED IN ACCORDANCE WITH THE TEST PROCEDURE LISTED IN DOE 10 CFR 431.
17. ALL ELECTRIC MOTORS SHALL MEET THE EFFICIENCY REQUIREMENTS OF TABLES C405.8(1) THROUGH C405.8(4) IN THE WASHINGTON STATE ENERGY CODE. FAN MOTORS 1/12 HP UP TO 1 HP SHALL BE ECM PER C405.8.
18. AT LEAST 50% OF ALL 125V, 15- AND 20-AMP RECEPTACLE INSTALLED IN PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING, BREAK ROOMS, INDIVIDUAL WORKSTATIONS AND CLASSROOMS (INCLUDING THOSE INSTALLED IN MODULAR PARTITIONS AND MODULAR OFFICE WORKSTATION SYSTEMS) SHALL BE CONTROLLED AS REQUIRED BY SECTION C405.10 OF THE WASHINGTON STATE ENERGY CODE. SEE LIGHTING AND RECEPTACLE CONTROL SHEET AND POWER PLANS FOR ADDITIONAL INFORMATION.
19. THE LIGHTING & RECEPTACLE CONTROLS SHALL BE COMMISSIONED PER THESE DRAWINGS, THE PROJECT SPECIFICATIONS, AND FACTORY REQUIREMENTS

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LOW VOLTAGE SYSTEMS NOTES

1. SEE GENERAL PROJECT NOTES, THIS DRAWING, PRELIMINARY DESIGN DRAWINGS AND PERFORMANCE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 2. ALL LOW VOLTAGE SYSTEMS, INCLUDING FIRE ALARM, ARE TO BE DESIGNED BY THE DESIGN-BUILD SUBCONTRACTORS. ANY DEVICES AND EQUIPMENT INDICATED ON THESE PLANS ARE PRELIMINARY FOR SPACE PLANNING PURPOSES ONLY. SEE NOTES THIS DRAWING, PRELIMINARY SYSTEMS PLAN, AND PERFORMANCE SPECIFICATIONS FOR INFORMATION AND REQUIREMENTS.
 3. LOW VOLTAGE SYSTEMS FOR THE PROJECT SHALL INCLUDE EXTENDING THE EXISTING BUILDING SYSTEMS TO SERVE THE NEW MAINTENANCE BAY ADDITION. THOSE LOW VOLTAGE SYSTEMS INCLUDE: FIRE ALARM, ACCESS CONTROL SYSTEM, WIRELESS NETWORK IN ALL COMMON AND OFFICE AREAS, AND TELECOM SYSTEMS. SEE PERFORMANCE SPECIFICATIONS AND PRELIMINARY SYSTEMS PLANS FOR ADDITIONAL INFORMATION.
 4. FIRE ALARM SYSTEM IS EXISTING AND TO BE EXPANDED INTO THE NEW ADDITION AREAS OF THE PROJECT. THE SYSTEM EXPANSION IS TO BE DESIGNED, SUBMITTED FOR PLAN REVIEW, PERMITTED AND INSTALLED BY A FIRE ALARM CONTRACTOR HIRED UNDER THE SCOPE OF THIS PROJECT. THE DESIGN-BUILD FIRE ALARM CONTRACTOR SHALL DESIGN AND PROVIDE COMPLETE AND FULLY OPERATIONAL FIRE ALARM SYSTEM MEETING THE REQUIREMENTS OF CODE, THE LOCAL AHJ AND THE FIRE MARSHAL. ANY DEVICES SHOWN ON THE ELECTRICAL DRAWINGS ARE SCHEMATIC FOR COORDINATION PURPOSES ONLY. SEE THE PERFORMANCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE FIRE ALARM CONTRACTORS SHALL MAKE ALL REQUIRED SUBMISSIONS TO THE AUTHORITIES HAVING JURISDICTION FOR PLAN REVIEW, PERMITS AND APPROVAL OF ALL FIRE ALARM SYSTEMS AND SHALL PAY ALL FEES ASSOCIATED WITH THESE SUBMISSIONS AND OBTAINING THE REQUIRED PERMIT(S). THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND PROVIDING SYSTEMS THAT MEET ALL REQUIREMENTS OF CODE AND THE LOCAL AHJ. ALL ADDITIONS, REVISIONS, RESUBMITTALS, ETC REQUIRED TO OBTAIN AHJ APPROVAL SHALL BE CARRIED OUT BY THE FIRE ALARM CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. PROVIDE A COPY OF THE FINAL APPROVED DRAWINGS WITH THE LOCAL AHJ'S APPROVAL STAMP TO THE OWNER FOR THEIR RECORDS.

THE FIRE ALARM CONTRACTORS SHALL MAKE ALL REQUIRED SUBMISSIONS TO THE AUTHORITIES HAVING JURISDICTION FOR PLAN REVIEW, PERMITS AND APPROVAL OF ALL FIRE ALARM SYSTEMS AND SHALL PAY ALL FEES ASSOCIATED WITH THESE SUBMISSIONS AND OBTAINING THE REQUIRED PERMIT(S). THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND PROVIDING SYSTEMS THAT MEET ALL REQUIREMENTS OF CODE AND THE LOCAL AHJ. ALL ADDITIONS, REVISIONS, RESUBMITTALS, ETC REQUIRED TO OBTAIN AHJ APPROVAL SHALL BE CARRIED OUT BY THE FIRE ALARM CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. PROVIDE A COPY OF THE FINAL APPROVED DRAWINGS WITH THE LOCAL AHJ'S APPROVAL STAMP TO THE OWNER FOR THEIR RECORDS.

3. NO ALERTING OR RADIO SYSTEM COMPONENTS ARE REQUIRED IN THE NEW MAINTENANCE BAY ADDITION.
8. ALL OTHER LOW VOLTAGE SYSTEMS (TELECOM, ACCESS CONTROL, ETC.) ARE EXISTING AND TO BE EXPANDED INTO THE NEW ADDITION AREAS OF THE PROJECT. THE SYSTEM EXPANSION(S) ARE TO BE DESIGNED AND INSTALLED BY A LOW VOLTAGE DESIGN-BUILD CONTRACTOR HIRED BY THE ELECTRICAL CONTRACTOR. THE DESIGN-BUILD LOW VOLTAGE CONTRACTOR SHALL DESIGN AND PROVIDE COMPLETE AND FULLY OPERATIONAL LOW VOLTAGE SYSTEMS PER THE REQUIREMENTS OF THE OWNER, THE LOCAL A/HJ AND THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL PARTS AND PIECES REQUIRED FOR THESE LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO RACKS, PATCH PANELS, ROUTERS, SWITCHES, WIRELESS ACCESS POINTS, PATCH CABLES, ETC. SEE THE PERFORMANCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. WIRELESS ACCESS POINTS ARE TO BE PROVIDED BY THE LOW VOLTAGE CONTRACTOR TO PROVIDE COMPLETE WIFI COVERAGE FOR THE NEW MAINTENANCE BAY AND OFFICE AREA OF THE PROJECT ADDITION. COORDINATE WITH THE OWNER TO UNDERSTAND THE EXISTING WIFI SYSTEM AND PROVIDE NECESSARY EXPANSION COMPONENTS IN ORDER TO EXTEND THE EXISTING SYSTEM INTO THE NEW ADDITION AREA.
10. ALL VOICE/DATA SYSTEM DESIGN SHALL BE PERFORMED BY A BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD) OR BY A DESIGN ENGINEER AT LEAST FIVE YEARS OF EXPERIENCE ON PROJECTS WITH SIMILAR SYSTEMS AND SCOPES. THE CONTRACTOR SHALL PROVIDE PROOF OF CERTIFICATION FOR THE SYSTEMS TO BE INSTALLED IN THE PROJECT AND THE CABLING, TERMINATIONS, AND EQUIPMENT PROPOSED FOR THE PROJECT.
11. ALL LOW VOLTAGE CABLING AND EQUIPMENT INSTALLATION AND TESTING SHALL BE PERFORMED BY A CERTIFIED INSTALLER. THE CONTRACTOR SHALL PROVIDE PROOF OF CERTIFICATION FOR THE SYSTEMS TO BE INSTALLED IN THE PROJECT AND THE CABLING, TERMINATIONS, AND EQUIPMENT PROPOSED FOR THE PROJECT.
12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE TELECOM AND CATV SERVICE TO THE BUILDING AND PROVIDE THE REQUIRED INFRASTRUCTURE FROM THE TELECOM PROVIDER'S SERVICE POINTS TO THE DEMARC LOCATION. SEE PLANS FOR ADDITIONAL INFORMATION. ALL UTILITY INFRASTRUCTURE SHALL MEET THE UTILITY SERVICE PROVIDER'S REQUIREMENTS.
13. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL INFRASTRUCTURE (LINE VOLTAGE POWER, CONDUITS WITH PULLSTRINGS, BACKBOXES, EQUIPMENT RACKS, ETC) FOR ALL LOW VOLTAGE SYSTEMS. PRELIMINARY SYSTEMS PLAN PROVIDED IN THIS BID SET ARE FOR BIDDING PURPOSES ONLY. THE ELECTRICAL CONTRACTOR SHALL CONFIRM ACTUAL DEVICE LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH THE DESIGN-BUILD LOW VOLTAGE CONTRACTOR AT THE START OF CONSTRUCTION.
14. BACK-TO-BACK DEVICES ARE NOT ALLOWED; INSTALL IN SEPARATE STUD CAVITIES. INSTALL PUTTY PADS ON ALL BOXES INSTALLED IN PARTY OR CORRIDOR WALLS.
15. THE CONTRACTORS SHALL COMPLETELY MOCK-UP THE MAINTENANCE AND OFFICE AREAS OF THE PROJECT ADDITION BY MARKING THE INTENDED LOCATIONS OF ALL EQUIPMENT AND DEVICES (LOAD CENTERS, MEDIA BOXES, LUMINAIRES, SWITCHES, RECEPTACLES, CATV AND TELECOM OUTLETS, THERMOSTATS, HEATERS/ HVAC EQUIPMENT, ETC.) BEFORE STARTING INSTALLATION OF EQUIPMENT AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL WALK THROUGH ALL MOCKED-UP AREAS WITH THE OWNER, ARCHITECT, AND GENERAL CONTRACTOR TO RECEIVE APPROVAL FOR ALL LOCATIONS. THE ELECTRICAL CONTRACTOR SHALL RELOCATE EQUIPMENT AND DEVICES IN THE MOCK-UPS PER THE OWNER AND ARCHITECT'S INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL RELOCATE ANY EQUIPMENT AND DEVICES INSTALLED PRIOR TO THE APPROVAL OF THE MOCKED-UP AREAS BY THE ARCHITECT AND OWNER AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
16. THE TELECOM SYSTEM WIRING SHALL MEET TIA PERFORMANCE CRITERIA FOR CATEGORY 6.

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GENERAL PROJECT NOTES

3. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING, DEVICE LOCATIONS, ETC. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND PROVIDE COMPLETE AND FULLY OPERATIONAL LOW VOLTAGE SYSTEMS THAT MEET ALL REQUIREMENTS OF THE OWNER, CODE AND THE LOCAL AHJ AND THE CONTRACT DOCUMENTS.
2. WHERE THE DRAWINGS CALL OUT FOR THE CONTRACTOR TO FIELD VERIFY AND / OR COORDINATE LOCATIONS AND REQUIREMENTS THIS VERIFICATION / COORDINATION IS TO BE COMPLETED PRIOR TO ANY EQUIPMENT, DEVICES, SUPPORTS, CONDUITS, ETC ARE INSTALLED / ROUGHED-IN. ANY EQUIPMENT, DEVICES, SUPPORTS, CONDUITS, ETC. INSTALLED AT LOCATIONS UNACCEPTABLE TO THE DESIGN TEAM (EITHER FOR AESTHETICS OR FUNCTIONALITY) DUE TO THE CONTRACTOR FAILING TO FIELD VERIFY / COORDINATE SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
3. MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION (WITH STATE AND LOCAL AMENDMENTS) OF THE NATIONAL ELECTRICAL CODE, WASHINGTON STATE ENERGY CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, INTERNATIONAL MECHANICAL CODE, UNIFORM PLUMBING CODE, THE AMERICANS WITH DISABILITY ACT AND LOCAL CODES AND ORDINANCES.
4. CONFIRM ALL LOCATIONS AND QUANTITIES WITH THE OWNER AND ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
5. CONTRACTOR TO MAINTAIN THE FIRE RATING OF ANY FIRE-RATED WALLS AND FLOORS. ALL FLOOR PENETRATIONS TO BE FINISHED TO A SMOOTH SURFACE.
6. INSTALL ALL EQUIPMENT PER CODE AND MANUFACTURER'S INSTRUCTIONS; THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE MECHANICAL/PLUMBING EQUIPMENT COORDINATION SCHEDULE FOR CONNECTION REQUIREMENTS FOR SPECIFIC MECHANICAL AND PLUMBING EQUIPMENT. SEE THE PANEL SCHEDULES AND FEEDER AND BRANCH CIRCUIT SCHEDULES FOR CIRCUIT SIZES.
7. ALL ELECTRICAL DEVICES AND EQUIPMENT (LUMINAIRES, CONDUIT AND CABLEING, ETC) SHALL BE INDEPENDENTLY SUPPORTED (I.E. DO NOT SUPPORT LUMINAIRES FROM MECHANICAL EQUIPMENT, ETC), PROVIDE SUPPORTS PER CODE AND AHJ REQUIREMENTS.
8. ALL UTILITY INFRASTRUCTURE (POWER AND TELECOM) SHALL MEET THE UTILITY SERVICE PROVIDERS' REQUIREMENTS.
9. ALL NEW RACEWAYS AND CABLEING SHALL BE INSTALLED CONCEALED WHEREVER POSSIBLE. AT OPEN CEILING AREAS, CONTRACTOR MUST PROVIDE CONDUCTORS / CABLEING IN CONDUIT. COORDINATE THE ROUTING OF THE CONDUIT AT OPEN CEILING AREAS WITH THE ARCHITECT. ALL CONDUIT AND CABLEING SHALL BE INSTALLED PARALLEL WITH BUILDING LINES. THE CONTRACTORS SHALL COORDINATE WITH THE CEILING TYPES IN ALL ROOMS AND ENSURE THAT ALL JUNCTION BOXES ARE ACCESSIBLE AFTER THE WORK OF ALL TRADES IS COMPLETE. JUNCTION BOXES SHALL NOT BE LOCATED ON HARD CEILINGS OR IN WALLS IN "FRONT OF HOUSE" SPACES WITHOUT PRIOR APPROVAL FROM ARCHITECT.
10. COORDINATE CONDUIT AND CABLEING ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS. ROUTE CONDUIT AS TO MINIMIZE PENETRATIONS THROUGH PARTITIONS.
11. COORDINATE THE EXACT LOCATIONS OF CEILING MOUNTED DEVICES WITH ALL OTHER TRADES. OCCUPANCY / VACANCY SENSORS SHALL BE INSTALLED AT LEAST 8-FT OR THE MANUFACTURER'S RECOMMENDED DISTANCE FROM ALL HVAC EXHAUST DIFFUSERS. LOCATE PHOTO CELLS PER MANUFACTURER'S INSTRUCTIONS.
12. COORDINATE THE LOCATIONS OF ALL WALL-MOUNTED DEVICES (OCCUPANCY SENSOR SWITCHES, LOW VOLTAGE WALL STATIONS, THERMOSTATS, ETC) WITH LOCATIONS AND SWINGS OF DOORS. DO NOT LOCATE DEVICES SUCH THAT THEY WILL BE BEHIND ANY DOOR WHEN THAT DOOR IS OPEN WITHOUT PRIOR APPROVAL OF THE ARCHITECT.
13. BACK-TO-BACK DEVICES ARE NOT ALLOWED; INSTALL IN SEPARATE STUD CAVITIES. INSTALL PUTTY PADS ON ALL BOXES INSTALLED IN PARTY OR CORRIDOR WALLS.
14. THE ELECTRICAL CONTRACTOR SHALL PERFORM COORDINATION, SHORT-CIRCUIT / FAULT CURRENT AND ARC FLASH STUDIES FOR THE PROJECT PER THE ACTUAL INTENDED INSTALLATION (FINAL GEAR SELECTION, ACTUAL FEEDER LENGTHS, ETC). STUDIES SHALL BE SUBMITTED TO THE ENGINEER WITH THE GEAR SUBMITTAL FOR REVIEW. FINAL STUDIES SHALL BE STAMPED BY AN ELECTRICAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF WASHINGTON AND SHALL BE SUBMITTED TO THE LOCAL AHJ. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FLASH LABELS ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT PER CODE AND AHJ REQUIREMENTS. SEE THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
15. LIGHTING CONTROL COORDINATION MEETING: THE ELECTRICAL CONTRACTOR SHALL COORDINATE A LIGHTING CONTROL COORDINATION MEETING WITH THE OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR AND AN AUTHORIZED SERVICE REPRESENTATIVE OF THE INTENDED LIGHTING CONTROL SYSTEM FOR THE PROJECT TO DISCUSS THE LIGHTING CONTROL INTENT FOR THE PROJECT. THIS MEETING SHALL OCCUR AT LEAST TEN (10) WORKING DAYS PRIOR TO SUBMITTING THE LIGHTING CONTROL SUBMITTAL. THE LIGHTING CONTROL SUBMITTAL SHALL REFLECT THE DECISIONS MADE DURING THIS MEETING.
16. THE CONTRACTORS SHALL MARK LOCATIONS OF ALL DEVICES AND EQUIPMENT (LOAD CENTERS, MEDIA BOXES, LUMINAIRES, SWITCHES, RECEPTACLES, CATV AND TELECOM OUTLETS, THERMOSTATS, HEATERS/HVAC EQUIPMENT, ETC) IN THE MAINTENANCE BAY AREAS OF THE PROJECT. BEFORE STARTING INSTALLATION OF EQUIPMENT AND DEVICES, THE ELECTRICAL CONTRACTOR SHALL WALK THROUGH ALL MOCKED-UP AREAS WITH THE OWNER, ARCHITECT, AND GENERAL CONTRACTOR TO RECEIVE APPROVAL FOR ALL LOCATIONS. THE ELECTRICAL CONTRACTOR SHALL RELOCATE EQUIPMENT AND DEVICES IN THE MOCK-UPS PER THE OWNER AND ARCHITECT'S INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL RELOCATE ANY EQUIPMENT AND DEVICES INSTALLED PRIOR TO THE APPROVAL OF THE MOCKED-UP AREAS BY THE ARCHITECT AND OWNER AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
17. ALL LOW VOLTAGE SYSTEMS, INCLUDING FIRE ALARM, ARE DESIGN BUILD. ANY DEVICES AND EQUIPMENT INDICATED ON THESE PLANS ARE PRELIMINARY FOR SPACE PLANNING PURPOSES ONLY.
18. THE DESIGN-BUILD LOW VOLTAGE CONTRACTOR SHALL DESIGN AND PROVIDE COMPLETE AND FULLY OPERATIONAL LOW VOLTAGE SYSTEMS PER THE REQUIREMENTS OF THE OWNER, THE LOCAL AHJ AND THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL PARTS AND PIECES REQUIRED FOR THESE LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO RACKS, PATCH PANELS, ROUTERS, WIRELESS ACCESS POINTS, PATCH CABLES, ETC. SEE THE PERFORMANCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. LOW VOLTAGE SYSTEMS INCLUDE THE FOLLOWING: TELECOM, WIFI NETWORKS, ACCESS CONTROL, AND FIRE ALARM. SEE ELECTRICAL DRAWINGS AND DIVISION 28, 27 AND 28 SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
19. THE TELECOM SYSTEM WIRING SHALL MEET TIA PERFORMANCE CRITERIA FOR CATEGORY 6.
20. WIRELESS ACCESS POINTS ARE TO BE PROVIDED BY THE LOW VOLTAGE CONTRACTOR TO PROVIDE COMPLETE WIFI COVERAGE FOR THE NEW MAINTENANCE BAYS AND OFFICE AREA OF THE PROJECT ADDITION. COORDINATE WITH THE OWNER TO UNDERSTAND THE EXISTING WIFI SYSTEM AND PROVIDE NECESSARY EXPANSION OF THE EXISTING SYSTEM INTO THE NEW ADDITION AREA.
21. THE DESIGN-BUILD FIRE ALARM CONTRACTOR SHALL DESIGN, SUBMIT FOR PLAN REVIEW, PERMIT AND PROVIDE COMPLETE AND FULLY OPERATIONAL FIRE ALARM SYSTEM MEETING THE REQUIREMENTS OF CODE, THE LOCAL AHJ AND THE FIRE MARSHAL. ANY DEVICES SHOWN ON THE ELECTRICAL DRAWINGS ARE SCHEMATIC FOR COORDINATION PURPOSES ONLY. SEE THE PERFORMANCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
22. THE ELECTRICAL AND FIRE ALARM CONTRACTORS SHALL MAKE ALL REQUIRED SUBMISSIONS TO THE AUTHORITIES HAVING JURISDICTION FOR PLAN REVIEW, PERMITS AND APPROVAL OF ALL ELECTRICAL AND FIRE ALARM SYSTEMS AND SHALL PAY ALL FEES ASSOCIATED WITH THESE SUBMISSIONS AND OBTAINING THE REQUIRED PERMIT(S). THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND PROVIDING SYSTEMS THAT MEET ALL REQUIREMENTS OF CODE AND THE LOCAL AHJ. ALL ADDITIONS, REVISIONS, RESUBMITTALS, ETC. REQUIRED TO OBTAIN AHJ APPROVAL SHALL BE CARRIED OUT BY THE FIRE ALARM CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. PROVIDE A COPY OF THE FINAL APPROVED DRAWINGS WITH THE LOCAL AHJ'S APPROVAL STAMP TO THE OWNER FOR THEIR RECORDS.
23. WHERE "PROVIDE" IS NOTED ANYWHERE IN THE DRAWINGS AND / OR SPECIFICATIONS, THE CONTRACTOR SHALL ASSUME THAT THEY ARE BEING DIRECTED TO PROVIDE AND INSTALL THE REFERENCED EQUIPMENT, DEVICES, SUPPORTS, ETC UNLESS SPECIFICALLY NOTED OTHERWISE. ALL EQUIPMENT, DEVICES, SUPPORTS, ETC ARE TO BE INSTALLED PER CODE/AHJ REQUIREMENTS AND MANUFACTURER INSTRUCTIONS.

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DEMOLITION NOTES

1. THE EXISTING BUILDING IS TO REMAIN FULLY OCCUPIED DURING CONSTRUCTION. ANY ELECTRICAL WORK THAT WILL REQUIRE THE TEMPORARY INTERRUPTION OF THE POWER TO ANY PORTION OF THE BUILDING SHALL BE PRE-SCHEDULED WITH THE OWNER AND ARCHITECT AT LEAST FIFTEEN WORKING DAYS PRIOR TO STARTING SAID WORK. THE CONTRACTOR SHALL NOT INTERRUPT POWER TO ANY PORTION OF THE BUILDING WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER.
2. PLEASE NOTE, ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS
3. EXISTING CIRCUITING, WHERE SHOWN, IS BASED ON AVAILABLE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING INSTALLATIONS AND UPDATE AS-BUILT DRAWINGS ACCORDINGLY.
4. FOR EXISTING EQUIPMENT TO BE DEMOLISHED, REMOVE ALL ASSOCIATED ELECTRICAL DISCONNECTS, CONDUIT, CONDUCTORS, AND CABLING BACK TO PANELBOARD FOR EQUIPMENT ON DEDICATED CIRCUITS. IF DEMOLITION BACK TO THE PANELBOARD IS CREATES IMPACT IN UNALTERED SPACES. DEMO BACK TO THE FURTHEST JUNCTION BOX AND MAKE ALL REMAINING CABLING/CONDUIT SAFE. WHERE ADDITIONAL EQUIPMENT TO REMAIN OR BE RE-USED SHALL HAVE EQUIPMENT TO BE DEMOLISHED, REMOVE ELECTRICAL DISCONNECT AND WIRING ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED AND REWORK CIRCUIT WIRING AS REQUIRED TO MAINTAIN POWER TO EQUIPMENT TO REMAIN OR BE REPLACED
5. WHERE RENOVATION WORK INTERFERES WITH EXISTING CIRCUITS OR EQUIPMENT NOT TO BE DEMOLISHED, REWORK OR RELOCATE EXISTING CIRCUITS AND EQUIPMENT AS REQUIRED TO MAINTAIN POWER TO THEM. REFER ALL CONFLICTS TO THE ARCHITECT AND ENGINEER
6. REMOVE EXISTING BRANCH CIRCUIT CONDUCTORS, CONDUITS AND CABLING ASSOCIATED WITH EXISTING EQUIPMENT AND DEVICES TO BE DEMOLISHED BACK TO THE NEAREST ACTIVE DEVICE THAT IS TO REMAIN. MAKE-SAFE CONDUCTORS AND CAP-OFF CONDUIT AS REQUIRED.
7. WHERE EXISTING BRANCH CIRCUITS ARE TO BE RE-USED THE CONDUCTORS, CONDUIT OR CABLES OF THE ORIGINAL CIRCUIT ARE TO REMAIN AND BE RE-USED IF POSSIBLE. DOWNSTREAM BRANCH CIRCUIT CONDUCTORS, CONDUIT OR CABLES SERVING EXISTING TO BE DEMOLISHED EQUIPMENT OR DEVICES IS TO BE REMOVED. THE CONTRACTOR SHALL VERIFY THAT EXISTING CONDUCTORS TO BE RE-USED ARE IN GOOD CONDITION AND RATED FOR 90-DEGREES C
8. ALL REMOVED ELECTRICAL MATERIALS NOT TO BE RE-USED SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE.
9. COORDINATE STORAGE LOCATION AND PROTECTION OF EQUIPMENT TO BE RE-USED WITH THE OWNER
10. DAMAGE TO EQUIPMENT, DEVICES, ETC TO REMAIN CAUSED BY THE CONTRACTOR SHALL BE REPLACED, REPAIRED AND RESTORED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. WORK SHALL BE COMPLETED TO THE COMPLETE SATISFACTION OF THE OWNER.

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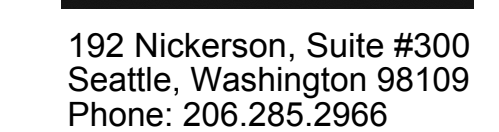
SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
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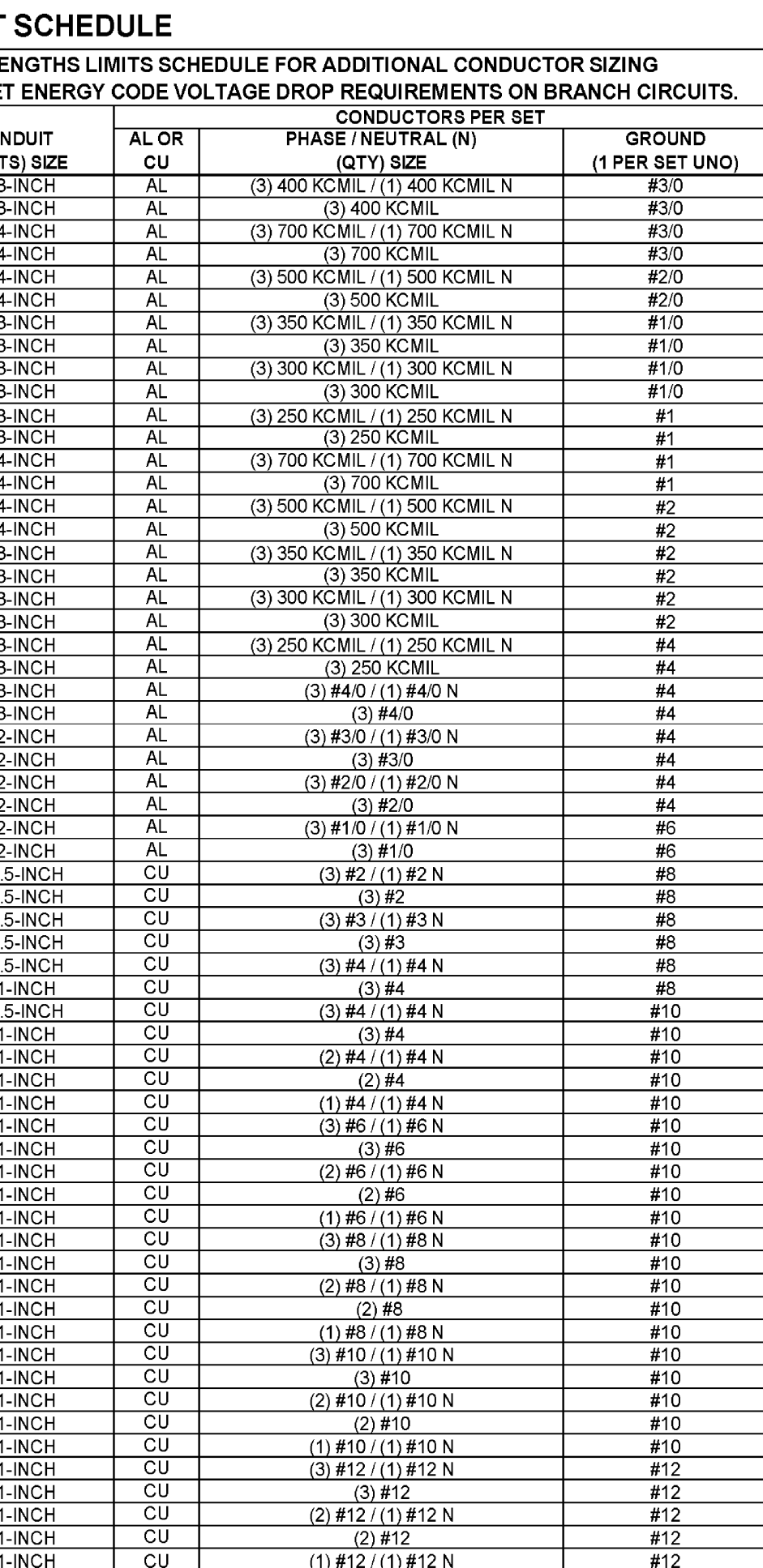
PROJECT NOTES

SHEET #

E00.02

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SHEET



SUMMARY AND POTENTIAL PROJECT SCOPE

A 30-DAY METERING EXERCISE WAS PERFORMED DURING JANUARY 2023 TO DETERMINE THE EXISTING BUILDINGS ENERGY USAGE. DURING THE 30 DAY DEMAND LOAD METERING, EVERY PANELBOARD, SERVED FROM THE MAIN DISTRIBUTION PANEL, WAS METERED TO DETERMINE HOW THE POWER WAS BEING CONSUMED ACROSS THE BUILDING. SEE THE ADJACENT LOAD CALC TABLE FOR THE DETAILS OF EACH PANEL USAGE.

TOTAL BUILDING SERVICE:
PER THE DEMAND METERING DATA AND NEC LOAD CALC'S, THE BUILDING HAS ROUGHLY 235 AMPS OF SPARE CAPACITY ON THE EXISTING 800 AMP UTILITY SERVICE. THIS SPARE CAPACITY IS ADEQUATE FOR THE MAINTENANCE BAY EXPANSION, ALLOWING THE MAIN ELECTRICAL SERVICE TO REMAIN AS IS.

PANEL 4 CAPACITY:
PER THE METERING DATA, PANEL 4 IS CURRENTLY CONSUMING ROUGHLY 105 AMPS AND DOES NOT HAVE ADDITIONAL CAPACITY TO SERVE THE NEW MAINTENANCE BAY EXPANSION.

ELECTRICAL DISTRIBUTION REVISIONS:

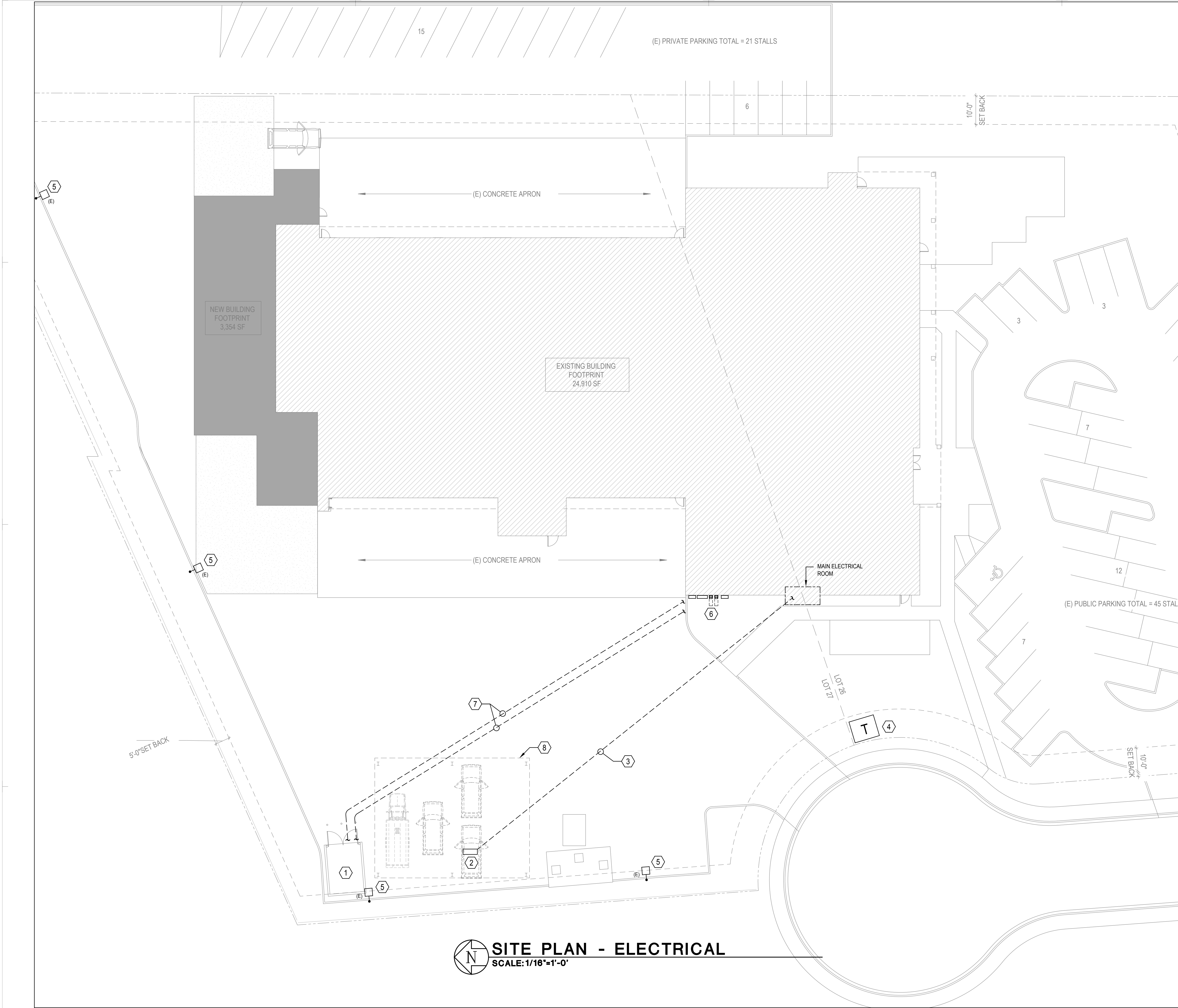
- EXISTING PANEL 4 (200AMP CAPACITY) WILL BE REPLACED WITH A LARGER 400AMP PANEL, WHICH WILL THEN SERVE THE NEW 200AMP PANEL REQUIRED FOR THE MAINTENANCE BAY EXPANSION.
- PROVIDE NEW 400AMP FEEDER FROM MAIN DISTRIBUTION PANEL OUT TO PANEL 4 LOCATION IN APP BAY.
- PROVIDE NEW 200AMP FEEDER FROM NEW PANEL 4 OUT TO NEW MAINTENANCE BAY AND CONNECT TO NEW PANEL 6.
- REPLACE EXISTING PANEL S WITH NEW EXTERIOR RATED LOAD CENTER (ALTERNATE #1 SCOPE OF WORK)

ALL ELECTRICAL GEAR AND FEEDERS SHOWN
ARE EXISTING UNLESS NOTED OTHERWISE.

FLAG NOTES :

1. ALL EXISTING ELECTRICAL EQUIPMENT TO REMAIN, UNLESS NOTED OTHERWISE.
2. THE EXISTING LOAD CENTER LOCATED ON THE NORTH EXTERIOR WALL AND IT'S FEEDER, SERVING THE MAINTENANCE TENT, ARE TO BE DEMO'D.
3. EXISTING 200AMP PANEL 4 IS TO BE REPLACED 'LIKE FOR LIKE' WITH A NEW 400AMP PANELBOARD. EXTEND AND REROUTE ALL EXISTING TO REMAIN BRANCH CIRCUITS AS REQUIRED TO RECONNECT TO NEW PANELBOARD. CONTRACTOR TO VERIFY ALL EXISTING CIRCUIT CONNECTIONS AND PROVIDE UPDATED PANEL SCHEDULE AT PROJECT COMPLETION.
4. EXISTING 200A FEEDER TO PANEL 4 IS TO BE DISCONNECTED FROM BOTH THE MSB AND THE PANEL LOCATION IN THE APP BAY. DEMOLISH AND REMOVE CONDUCTOR & CONDUIT WITHIN THE EQUIPMENT ENCLOSURES OR ABOVE THE APP BAY FLOOR. THE CONDUCTORS ARE ALLOWED TO BE ABANDONED BELOW GRADE IN PLACE WHEN CONDUIT IS CAPPED OFF AND MADE SAFE.
5. EXISTING 200AMP BREAKER, IN MSB, SERVING PANEL 4 IS TO BE REMOVED FROM MSB. PROVIDE BLANK COVER PLATE IN PLACE OF THE BREAKER.
6. PROVIDE NEW 400AMP, 3PH BREAKER IN EXISTING MDP AND RUN NEW 400AMP FEEDER OUT TO PANEL 4 LOCATION IN THE APP BAY. THE INTENDED ROUTING OF THE FEEDER IS TO RUN VERTICALLY OUT OF THE MAIN DISTRIBUTION PANEL, EXIT THE ELECTRICAL ROOM CEILING AND ADMIN AREA ROOF. ONCE ON THE EXTERIOR, THE FEEDER RUNS ALONG THE LOW ROOF (OF THE ADMIN AREA) BEFORE RE-ENTERING THE BUILDING INTERIOR VIA THE SOUTH WALL OF THE TALLER APP BAY CEILING AREA. PROVIDE RMC CONDUIT FOR EXTERIOR LOCATIONS TO PREVENT UV DAMAGE. SEAL ALL EXTERIOR WALL AND ROOF PENETRATIONS.
7. PROVIDE NEW 200AMP FEEDER FROM PANEL 4 OUT TO NEW PANEL 6 LOCATION IN THE NEW APP BAY.
8. PROVIDE NEW, 2-SECTION, SURFACE MOUNTED 200AMP, 3-PHASE PANELBOARD IN NEW APP BAY. VERIFY EXACT LOCATION WITH ARCHITECT AND OWNER.
9. ALTERNATE #1: EXISTING PANEL 'S' (MOUNTED TO A CONEX BOX ON WEST EDGE OF THE PARKING LOT) IS TO BE DEMOLISHED AND REPLACED WITH NEW UNDER THE ALTERNATE #1 CARPORT SCOPE OF WORK. SEE SHEET E10.05 FOR MORE DETAILS.

ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS.



GENERAL NOTES:

- A. ALL EXTERIOR / SITE LIGHTING FIXTURES TO HAVE AUTOMATIC ON/OFF CONTROL VIA BUILDING CONTROLS TIME CLOCK OR LOCAL PHOTOCELL
- B. ALL EXTERIOR LIGHTING FIXTURES TO COMPLY WITH DARK SKY REQUIREMENTS TO LIMIT GLARE AND UP-LIGHT. FIXTURE ARE PLACED IN LOCATIONS TO PREVENT LIGHT TRESPASS INTO ADJACENT PROPERTIES. IF CONTRACTOR PROPOSES SUBSTITUTE FIXTURES, THEY ARE RESPONSIBLE FOR PROVIDING PHOTOMETRIC CALC'S SHOWING THE LIGHT TRESPASS REQUIREMENTS ARE BEING ACHIEVED.
- C. SEE SHEET E33.01 FOR ALL BUILDING MOUNTED LIGHTING FIXTURES (NEW AND EXISTING)
- D. MAINTAIN EXISTING BRANCH CIRCUITRY AND CONTROLS TO ALL EXISTING TO REMAIN EXTERIOR LIGHT FIXTURES.

FLAG NOTES (X) :

- 1. EXISTING GENERATOR TO REMAIN. CONTRACTOR TO LOCATE AND PROTECT GENERATOR FEEDERS DURING CONSTRUCTION. IF CONFLICTS OCCUR COORDINATE WITH ARCHITECT / DESIGN TEAM, AND RE-ROUTE FEEDERS AS NEEDED.
- 2. EXISTING LOAD CENTER MOUNTED TO CONEX BOX LOCATED IN THE PARKING LOT. LOAD CENTER TO BE DEMOLISHED AND REPLACED UNDER SCOPE OF ALTERNATE #1. SEE SHEET E10.05 FOR MORE DETAILS.
- 3. SCHEMATIC ROUTING OF EXISTING UNDERGROUND FEEDER FROM MAIN ELECTRICAL ROOM OUT TO LOAD CENTER ON CONEX BOX. ACTUAL FEEDER ROUTING IS UNKNOWN. CONTRACTOR TO PERFORM LOCATES PRIOR TO ANY SITE WORK.
- 4. EXISTING SNOHOMISH PUD TRANSFORMER TO REMAIN.
- 5. EXISTING PARKING LOT POLE LIGHTS TO REMAIN.
- 6. EXTERIOR LOCATION OF: GENERATOR DISCONNECT SWITCHES, CELL TOWER SERVICE DISCONNECT SWITCH, ELECTRICAL SERVICE METERS. ALL EQUIPMENT IS TO REMAIN. CELL TOWER SHALL NOT LOSE POWER OR CONNECTIVITY AT ANY POINT OF CONSTRUCTION WITHOUT PRIOR CONSENT AND COORDINATION WITH CELL TOWER PROVIDER.
- 7. ESTIMATED UNDERGROUND ROUTING OF GENERATOR FEEDERS TO BUILDING. CONTRACTOR TO PERFORM LOCATES PRIOR TO ANY SITE WORK.
- 8. ALTERNATE #1: NEW CARPORT WITH ASSOCIATED POWER AND LIGHTING. SEE SHEET E10.05 FOR ADDITIONAL SCOPE DETAILS

ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS.



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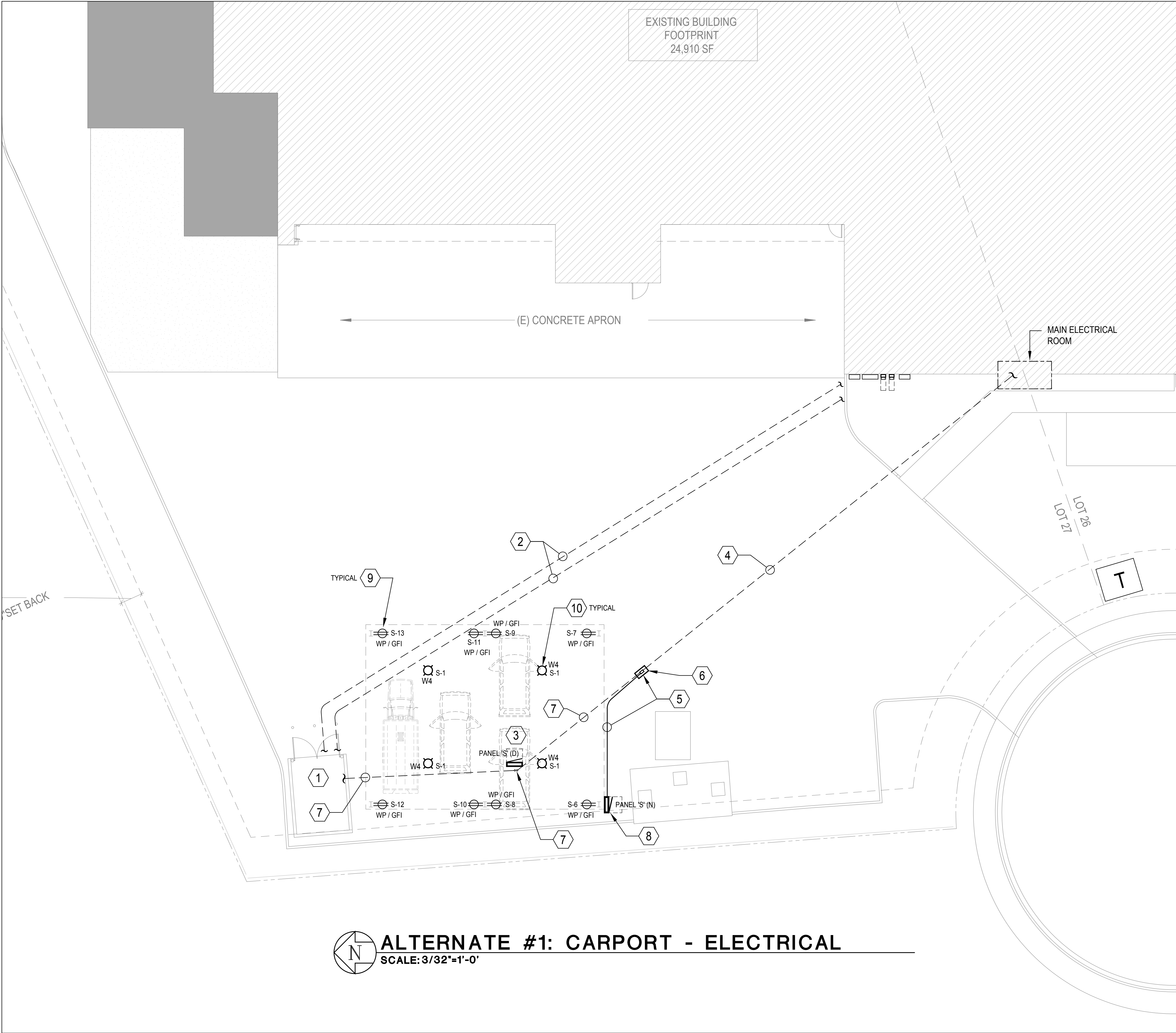
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SITE PLAN - ELECTRICAL

SHEET #

E10.01



REFER TO ARCHITECTURAL DRAWINGS AND DIVISION 1 SPECIFICATIONS FOR DETAILS ON PROJECT SCOPE, BIDDING REQUIREMENTS AND ALL OTHER INFORMATION REGARDING ALTERNATE SCOPES WITHIN THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE ARCHITECT / OWNER TO UNDERSTAND THE ALTERNATE PACKAGE(S) AND BID THEM ACCORDING TO THE PROJECT DIRECTIVES.

GENERAL NOTES:

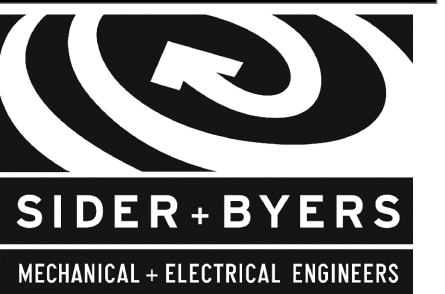
- PRIOR TO ANY SITE WORK, CONTRACTOR IS TO PERFORM LOCATES AND COORDINATE ALL SITE INVESTIGATION FINDINGS DIRECTLY WITH ALL SITE TRADES (GC, ARCHITECT, CIVIL, STRUCTURAL) IN ORDER TO CREATE A FULL TEAM UNDERSTANDING OF THE EXISTING SITE CONDITIONS.
- ALL TRENCHING / EXCAVATION, BACKFILL, AND PAVING REQUIRED BY THE ELECTRICAL SCOPE IS TO BE EXECUTED BY THE GENERAL CONTRACTOR.
- EXISTING LOAD CENTER, PANEL S, IS ESTIMATED TO HAVE A CAPACITY OF 60AMPS AT 208V/1PH, BEING SERVED FROM PANEL P3 IN THE MAIN ELECTRICAL ROOM. CONTRACTOR TO VERIFY SYSTEM CAPACITY AND DETAILS.
- ALL EXISTING BRANCH CIRCUITS FED FROM EXISTING PANEL S ARE TO BE DEMOLISHED.
- ALL NEW SITE POWER DEVICES TO BE EXTERIOR RATED, WITH GFCI PROTECTION AND LOCATED IN A WHILE-IN-USE WEATHERPROOF BOX WITH LOCKABLE COVER.

FLAG NOTES (X) :

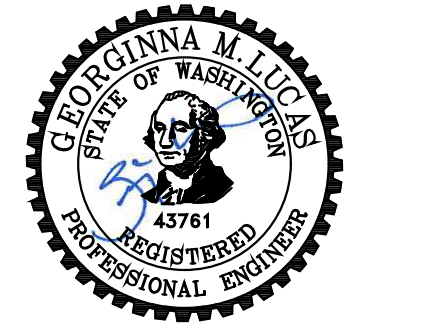
- EXISTING GENERATOR TO REMAIN.
- ESTIMATED UNDERGROUND ROUTING OF GENERATOR FEEDERS TO BUILDING. FEEDERS ARE TO REMAIN PROTECTED AND FULLY FUNCTIONAL THROUGHOUT ALL CONSTRUCTION SCOPES. CONTRACTOR TO PERFORM LOCATES AND POTHOLE TO CONFIRM EXACT LOCATION PRIOR TO ANY SITE WORK AND EXCAVATION / INSTALLATION OF CARPORT FOOTINGS. ALERT ARCHITECT AND ENGINEER IF ANY CONFLICTS ARE FOUND BETWEEN EXISTING CONDITIONS AND ANTICIPATED PROJECT SCOPE.
- EXISTING EXTERIOR RATED LOAD CENTER (PANEL S), MOUNTED TO CONEX BOX IN PARKING AREA, IS TO BE DEMOLISHED. DEMOLISH ALL BRANCH CIRCUITRY BEING FED OUT OF PANEL S. A NEW LOAD CENTER IS TO BE INSTALLED IN A NEW LOCATION TO SERVE NEW CARPORT LOADS. SEE FLAG NOTE 8 FOR REPLACEMENT DETAILS. CONFIRM ALL EXISTING CONDITIONS IN THE AREA AND SERVING THE LOAD CENTER PRIOR TO ANY WORK IN THIS AREA.
- SCHEMATIC UNDERGROUND ROUTING OF FEEDER OUT TO EXISTING PANEL S, FROM PANEL P3 IN MAIN ELECTRICAL ROOM. ACTUAL FEEDER ROUTING IS UNKNOWN. CONTRACTOR TO PERFORM LOCATES TO VERIFY FEEDER ROUTING PRIOR TO ANY SITE WORK.
- EXISTING UNDERGROUND FEEDER TO BE INTERCEPTED, ROUGHLY IN THIS AREA, AND REROUTED TO THE NEW LOAD CENTER MOUNTING LOCATION ON CARPORT STRUCTURE. CONTRACTOR TO PROVIDE NEW CONDUIT FROM INTERCEPT POINT TO NEW PANEL LOCATION.
- AT INTERCEPT POINT, E.C. TO SPLICE EXISTING FEEDER WITH NEW AS NEEDED, AND ALLOWED BY CODE, TO REACH NEW LOAD CENTER LOCATION. PROVIDE TRAFFIC RATED JUNCTION BOX FOR ACCESS TO FEEDER SPLICE. ASSUME 18"x24" JUNCTION BOX FOR BID PURPOSES.
- EXISTING FEEDER CONDUITS STUBBED UP AT CONEX BOX TO BE DEMOLISHED ABOVE GRADE. EXISTING FEEDER TO MAIN ELECTRICAL ROOM TO BE ABANDONED IN PLACE BETWEEN CONEX BOX AND NEW INTERCEPT POINT. EXISTING CONDUIT FROM CONEX BOX TO GENERATOR TO BE CUT OFF, CAPPED BELOW GRADE, AND MARKED.
- PROVIDE NEW 100AMP, 120/208V, 1-PHASE LOAD CENTER, IN NEMA 3R EXTERIOR RATED ENCLOSURE, TO SERVE NEW CARPORT LOADS. MOUNT LOAD CENTER TO UNI-STRUT ASSEMBLY MOUNTED TO NEW STRUCTURAL POSTS OF THE NEW CARPORT. LOCATE IN AN AREA OUT OF TYPICAL VEHICLE TRAVEL AND CONFIRM WITH OWNER & ARCHITECT PRIOR TO ROUGH-IN. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- PROVIDE NEW DUPLEX RECEPTACLES, FED FROM NEW PANEL S, FOR SHORE POWER VEHICLE CONNECTIONS. RECEPTACLES TO BE MOUNTED TO STRUCTURAL STEEL COLUMNS, AT LEAST 12-INCHES ABOVE THE CONCRETE BASE TRANSITION.
- NEW SURFACE MOUNTED PARKING GARAGE STYLE FIXTURES AT NEW CARPORT. FIXTURES TO BE WET LOCATION RATED WITH INTEGRAL PHOTOCELL AND MOTION SENSOR. FIXTURES TO HAVE AUTO ON/OFF BASED ON PHOTOCELL AND BI-LEVEL DIMMING DOWN TO 30% OUTPUT WHEN THE CARPORT IS UNOCCUPIED. PROVIDE FIXTURE WITH MOUNTING BRACKET CAPABLE OF ACCOMMODATING A SLOPPED CEILING CONFIGURATION.

ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS.

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AHJ APPROVAL STAMP

ALTERNATE #1:
CARPORT -
ELECTRICAL SCOPE

SHEET #

E10.05

GENERAL NOTES:

- A. UNLESS NOTES OTHERWISE, ALL EXISTING DEVICES ON THE MAIN FLOOR ARE EXISTING TO REMAIN. DEVICES NOTES WITH '(D)' ARE TO BE DEMOLISHED.
- B. MAINTAIN ALL EXISTING BRANCH CIRCUIT CONTINUITY UNLESS NOTED TO BE DEMOLISHED.

FLAG NOTES (X):

1. DEMOLISH EXTERIOR MOUNTED LOAD CENTER AND SPECIALTY RECEPTACLE AT NORTH-WEST CORNER OF BUILDING. SEE SHEET E20.02 FOR INFORMATION ON DEMOLISHING BOTH FEEDERS.
2. DEMOLISH GROUND BARS AND CABLING CONNECTED TO EXTERIOR LOAD CENTER BEING DEMOLISHED.
3. EXISTING SURFACE MOUNTED CONDUIT TO BE REROUTED AROUND NEW STRUCTURAL COLUMN BEING INSTALLED. VERIFY EXACT LOCATION AND ROUTING NEEDS WITH ARCHITECT AND STRUCTURAL. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED.
4. DEMOLISH EXISTING EXTERIOR DEVICES (LIGHT SWITCH, RECEPTACLE, ENTRY ACCESS KEYPAD) WHERE NEW MAINTENANCE BAY WILL BE CONSTRUCTED.
5. DISCONNECT FROM BREAKER AND DEMOLISH EXISTING BRANCH CIRCUITRY & CONTROLS WIRING FOR THE PARTS ROOM UNIT HEATER BEING DEMO'D.
6. EXISTING LIGHT SWITCH AT PARTS ROOM ENTRY DOOR TO BE REMOVED. PROVIDE NEW BLANK COVER PLATE FOR EXISTING OUTLET BOX. EXISTING CONTROL WIRING IS TO BE MAINTAINED AND RECONFIGURED FOR NEW SWITCH LOCATIONS IN MODIFIED PARTS ROOM. SEE SHEET E33.01 FOR MORE DETAILS.

ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS.

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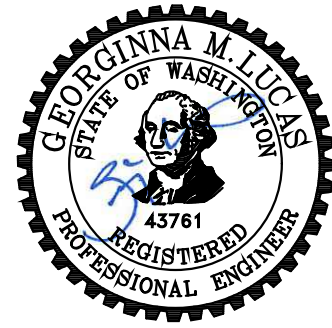
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MECHANICAL + ELECTRICAL ENGINEERS

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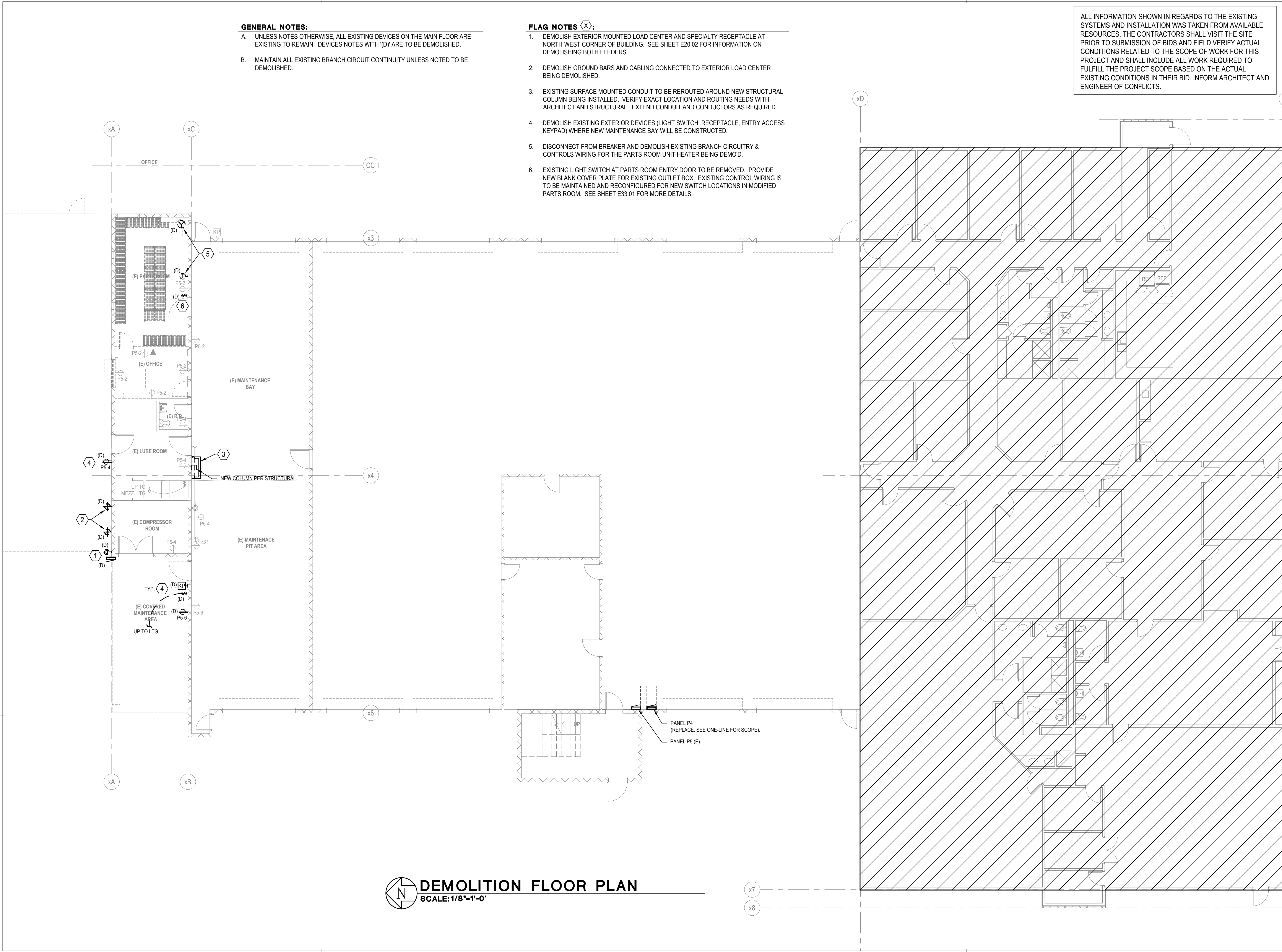
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AHJ APPROVAL STAMP

DEMOLITION FLOOR
PLAN

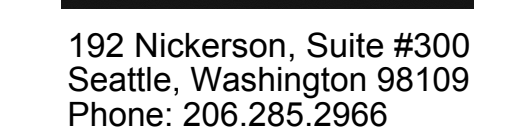
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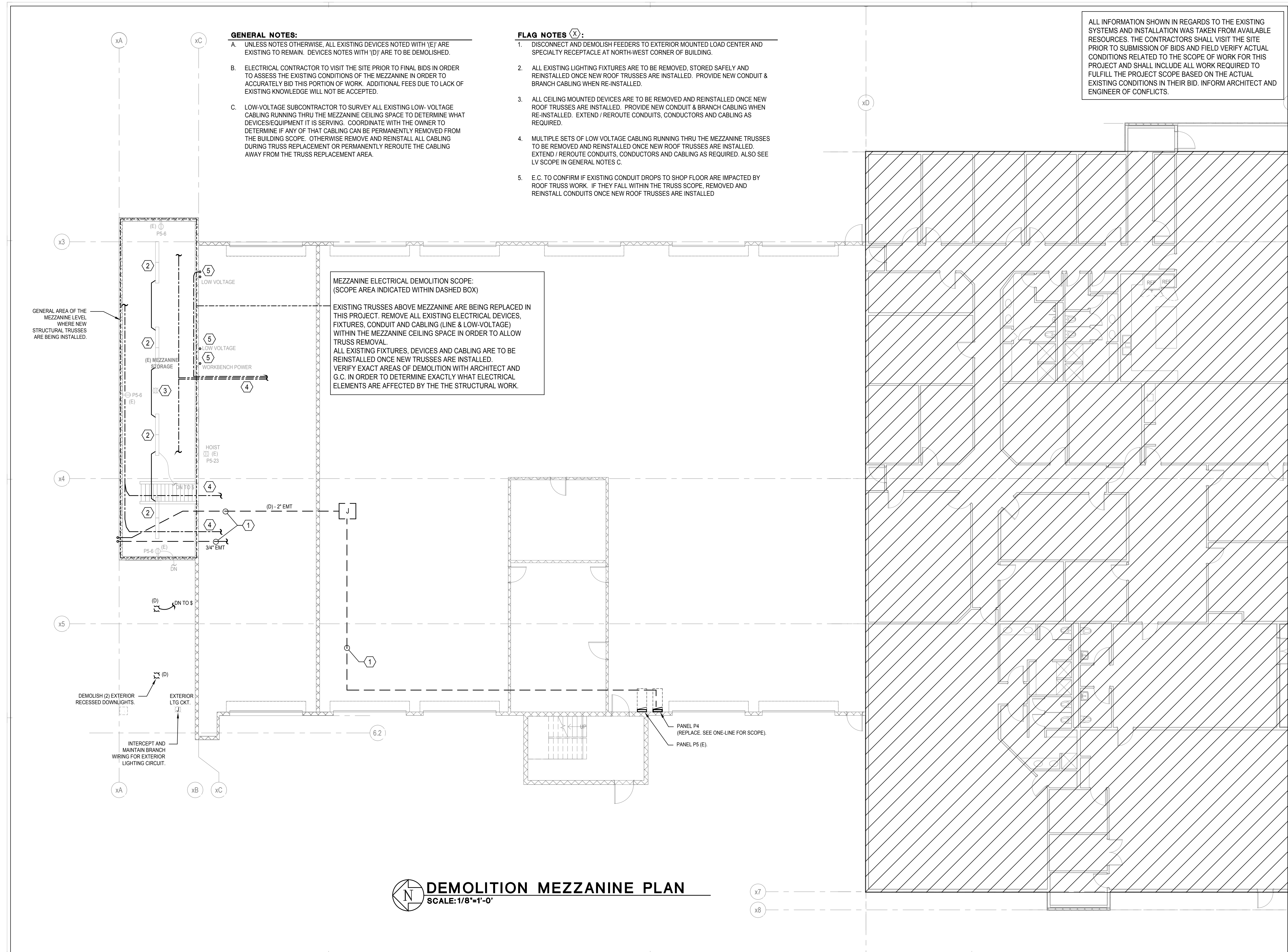


DEMOLITION FLOOR PLAN

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



E20.02





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AHJ APPROVAL STAMP

POWER FLOOR PLAN

SHEET #

E22.01

GENERAL NOTES:

- A. UNLESS NOTES OTHERWISE, ALL EXISTING DEVICES ON THE MAIN FLOOR ARE EXISTING TO REMAIN. DEVICES NOTES WITH 'D)' ARE TO BE DEMOLISHED.
- B. CONTRACTOR TO VERIFY ALL SURFACE MOUNTED CONDUIT ROUTING WITH THE ARCHITECT PRIOR TO ROUGH-IN & INSTALL. CONDUIT TO BE ROUTED PARALLEL WITH BUILDING LINES AND IN A GOOD WORK LIKE MANOR.
- C. VERIFY ALL POWER DEVICE LOCATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS.

FLAG NOTES (X):

1. PROVIDE POWER AND DISCONNECT FOR MOTORIZED GARAGE DOORS. DOORS PROVIDED WITH CONTROL PANELS AND REMOTE PUSHBUTTON OPERATORS BY OTHERS. ELECTRICAL CONTRACTOR TO INSTALL AND CONNECT COMPLETE DOORS AND DOOR OPERATORS PER CODE AND MANUFACTURER'S INSTRUCTIONS; SEE FLAG NOTE #2 FOR CONTROL PANEL LOCATIONS. FIELD VERIFY EXACT CONNECTION LOCATIONS AND REQUIREMENTS WITH EQUIPMENT PROVIDER AND ARCHITECT.

PROVIDE ONE 3/4-INCH CONDUIT WITH PULLSTRING FROM EACH CONTROL PANEL TO THE ASSOCIATED REMOTE OPERATOR. PROVIDE ONE 1-INCH CONDUIT WITH PULLSTRING FROM THE DOOR CONTROL BOX TO THE GARAGE DOOR MOTOR LOCATION; PROVIDE BUSHINGS AT EACH CONDUIT END. CONFIRM EXACT LOCATIONS AND CONDUIT REQUIREMENTS WITH ARCHITECT AND DOOR INSTALLER.

2. ELECTRICAL CONTRACTOR TO INSTALL WALL-MOUNT CONTROL BOXES FOR (3) MAINTENANCE BAY ROLL UP GARAGE DOORS. COORDINATE INSTALLATION WITH ARCHITECT AND STRUCTURAL. CONFIRM EXACT LOCATION AND QUANTITY OF CONTROLLERS WITH ARCHITECT. CONTROL BOXES PROVIDED BY GARAGE DOOR MANUFACTURER, INSTALLED AND CONNECTED COMPLETE BY ELECTRICAL CONTRACTOR PER CODE AND MANUFACTURER'S INSTRUCTIONS. PROVIDE DISCONNECT PER CODE REQUIREMENTS. COORDINATE INSTALLATION WITH ALL OTHER TRADES; MAINTAIN REQUIRED CLEARANCES

3. CONTROLLED RECEPTACLES PER WSEC: 50% OF THE RECEPTACLES IN NEW ENCLOSED OFFICE ARE TO BE AUTOMATICALLY CONTROLLED AS PER ENERGY CODE REQUIREMENTS. UNLESS NOTED OTHERWISE, RECEPTACLES ARE TO BE HALF-SWITCHED WITH THE TOP OUTLET AUTOMATICALLY SWITCHED VIA THE LIGHTING CONTROL SYSTEM IN THE ROOM. AUTOMATICALLY CONTROLLED RECEPTACLES ARE TO HAVE MANUFACTURER-INSTALLED ENGRAVED LABELING IDENTIFYING THE SWITCHED OUTLETS AT EACH LOCATION

4. GFCI PROTECTION FOR EQUIPMENT MAINTENANCE RECEPTACLE PER NEC 210.8(E) PROVIDED VIA GFCI-TYPE BREAKERS ON CIRCUITS SERVING RECEPTACLES IN AREAS NOTED. SEE PANEL SCHEDULES. OTHER AREAS ARE PROVIDED WITH GFCI TYPE RECEPTACLES FOR EQUIPMENT MAINTENANCE.

5. PROVIDE SPECIALTY RECEPTACLE FOR HETRA LIFT (BASIS OF DESIGN: NEMA L15-30R). CONNECT COMPLETE PER CODE REQUIREMENTS AND EQUIPMENT MANUFACTURERS INSTRUCTIONS. FIELD VERIFY EXACT LOCATIONS AND EQUIPMENT CONNECTION REQUIREMENTS WITH OWNER.

6. PROVIDE SPECIALTY RECEPTACLE FOR WELDER (BASIS OF DESIGN: NEMA 10-30R). CONNECT COMPLETE PER CODE REQUIREMENTS AND EQUIPMENT MANUFACTURERS INSTRUCTIONS. FIELD VERIFY EXACT LOCATIONS AND EQUIPMENT CONNECTION REQUIREMENTS WITH OWNER.

NEW 200AMP FEEDER FROM PANEL P4 TO NEW PANEL P6 LOCATION IN SHOP ADDITION. ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE EXACT ROUTING WITH ALL OTHER TRADES AND SHALL NOT MAKE ANY WALL PENETRATIONS WITHOUT PRIOR APPROVAL.

NEW 400AMP FEEDER FROM MAIN ELECTRICAL ROOM TO APP BAY LOCATION OF PANEL P4. SEE ROUTING DIRECTION ON E0.3 ONE-LINE. ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE EXACT ROUTING WITH ALL OTHER TRADES.

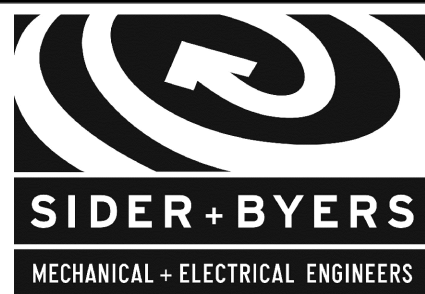
PANEL P4 (NEW).

PANEL P5 (E).

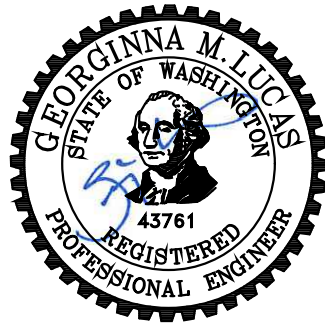


POWER FLOOR PLAN

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



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AHJ APPROVAL STAMP

MECHANICAL POWER
FLOOR PLAN

SHEET #

E22.02

GENERAL NOTES:

- A. INSTALL GFCI PROTECTED RECEPTACLES WITHIN 25-FOET OF ALL MECHANICAL EQUIPMENT FOR MAINTENANCE. FIELD VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.
- B. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR TO VERIFY THE ELECTRICAL LOADSAND CONNECTION REQUIREMENTS FOR ALL HVAC, PLUMBING, AND ASSOCIATED EQUIPMENT BASED ON THE APPROVED EQUIPMENT SUBMITTALS. MAKE ALL NECESSARY CHANGES TO THE SERVING CIRCUIT BREAKERS AND CABLING TO ACCOMMODATE THE APPROVED MECHANICAL EQUIPMENT.
- C. PROVIDE MOTOR STARTERS AT ALL REQUIRED MECHANICAL FANS OR MOTORS. COORDINATE WITH M.C. TO DETERMINE QUANTITIES AND LOCATIONS.

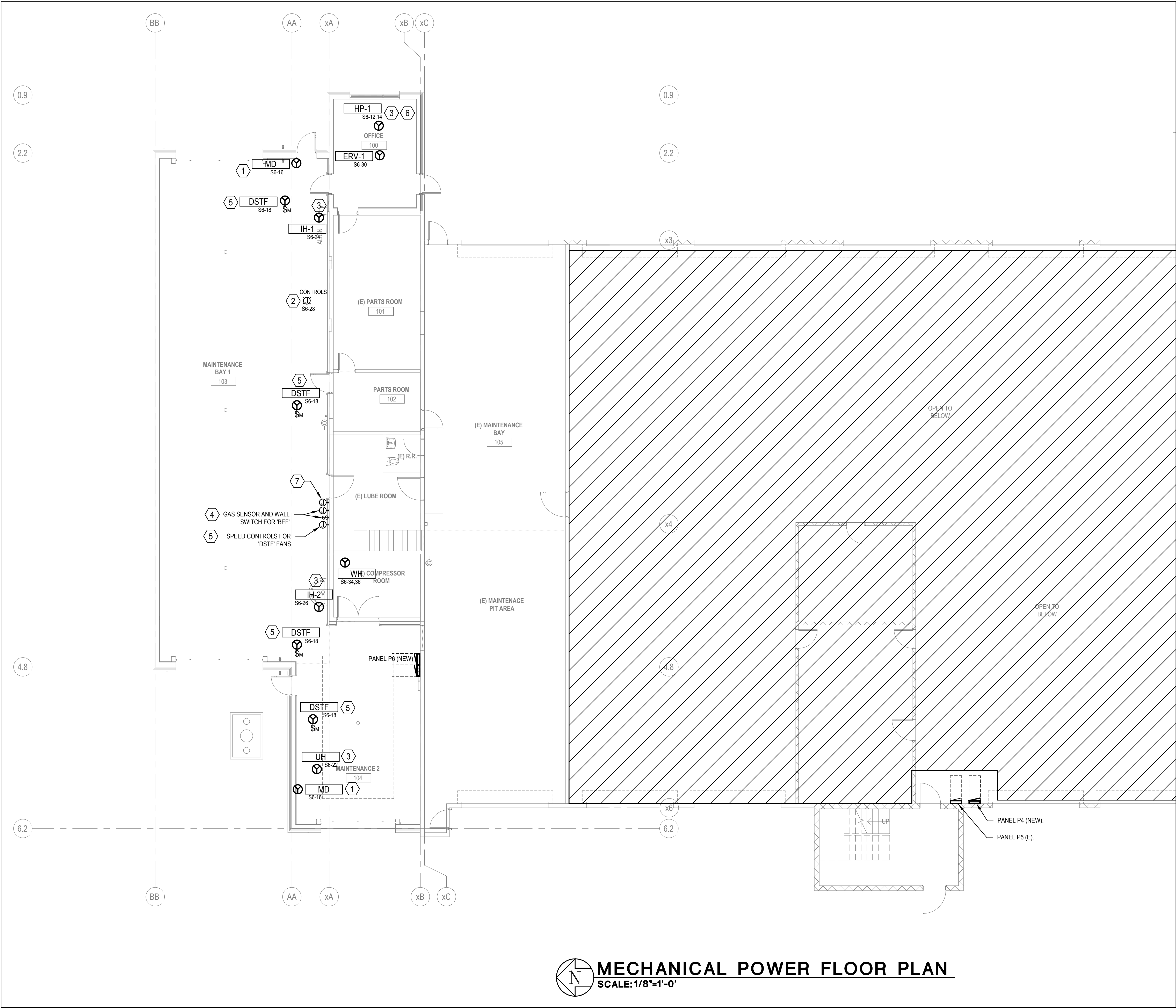
FLAG NOTES (X) :

1. MOTORIZED DAMPERS TO BE INTERLOCKED WITH EXHAUST FAN 'BEF'. CONNECT COMPLETE PER CODE AND MANUFACTURER INSTRUCTIONS. COORDINATE CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
2. PROVIDE 120V POWER AND DISCONNECT TO 24V CONTROLS TRANSFORMER PROVIDED BY MECHANICAL CONTRACTOR. FIELD VERIFY LOCATION AND CONNECTION REQUIREMENT WITH MECHANICAL CONTRACTOR.
3. CIRCUITS FOR HVAC HEATING AND/ OR COOLING EQUIPMENT SERVING ROOMS WITH EXTERIOR DOORS TO BE ROUTED THROUGH DOOR CONTROL RELAYS (PROVIDED BY THE MECHANICAL CONTRACTOR, INSTALLED AND CONNECTED COMPLETE PER CODE AND MANUFACTURER'S REQUIREMENTS) TO AUTOMATICALLY SHUT OFF WHEN EXTERIOR DOORS ARE OPEN PER REQUIREMENTS OF ENERGY CODE. SEE DETAIL #1 ON M30.04 AND COORDINATE CONNECTION REQUIREMENTS AND LOCATIONS WITH MECHANICAL CONTRACTOR.
4. PROVIDE LINE VOLTAGE WIRING BETWEEN EXHAUST FAN ON ROOF AND ITS VARIOUS SENSOR AND CONTROLS (i.e. TIMER SWITCH, GAS SENSOR, ETC) AS REQUIRED. SEE CONTROL WIRING DIAGRAM ON SHEET M30.04 AND COORDINATE CONNECTION REQUIREMENTS AND LOCATIONS WITH MECHANICAL CONTRACTOR.
5. PROVIDE CONNECTION AND DISCONNECT AT DSTF FANS. PROVIDE LINE VOLTAGE WIRING TO WALL MOUNTED SPEED CONTROL SWITCH AS REQUIRED BY MANUFACTURER. COORDINATE CONNECTION REQUIREMENTS AND LOCATIONS WITH MECHANICAL CONTRACTOR.
6. UNIT PROVIDED WITH INTEGRAL CONDENSATE PUMP. PROVIDE ANY LINE VOLTAGE WIRING BETWEEN PUMP AND UNIT AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.
7. APPROXIMATE LOCATION FOR VEHICLE EXHAUST SYSTEM CONTROL PANEL PROVIDED BY OTHERS. INSTALLED AND CONNECTED COMPLETE BY THE ELECTRICAL CONTRACTOR PER CODE AND MANUFACTURER'S INSTRUCTIONS. VERIFY MANUFACTURER'S WIRING REQUIREMENTS PRIOR TO ROUGH-IN. FIELD VERIFY LOCATION WITH SYSTEM PROVIDER AND ARCHITECT.

ELECTRICAL CONTRACTOR TO ALSO PROVIDE ONE 1-INCH CONDUIT WITH PULLSTRING FROM THE FAN ON THE ROOF TO THE SYSTEM CONTROL PANEL FOR CONTROL/ LOW VOLTAGE POWER CABLING.

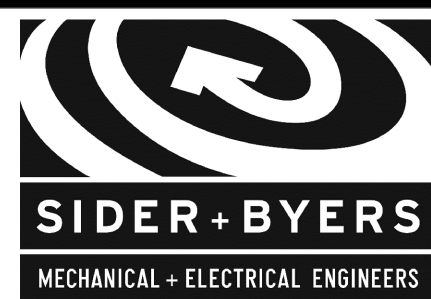
LOW VOLTAGE CONTRACTOR TO PROVIDE CABLING FROM THE VFD DRIVE TO THE CONTROL PANEL; CONFIRM REQUIREMENTS WITH SYSTEM PROVIDER AND GENERAL CONTRACTOR. FOR BID PURPOSES ONLY, ASSUME ONE 18 GAUGE 4-WIRE CABLE.

ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS.



MECHANICAL POWER FLOOR PLAN

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



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Phone: 206.285.2966



SRFR 31 - SHOP ADDITION
SNOHOMISH REGIONAL FIRE & RESCUE
163 VILLAGE COURT
MONROE, WA 98272

PROJECT # 22041

BID SET

ISSUE DATE 3/22/2024

REVISION SCHEDULE

| NO. | DESCRIPTION | DATE |
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AHJ APPROVAL STAMP

MECHANICAL POWER
ROOF PLAN

SHEET #

E22.03

GENERAL NOTES:

- A. INSTALL GFCI PROTECTED RECEPTACLES WITHIN 25-FEET OF ALL MECHANICAL EQUIPMENT FOR MAINTENANCE. FIELD VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.
- B. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR TO VERIFY THE ELECTRICAL LOADS AND CONNECTION REQUIREMENTS FOR ALL HVAC, PLUMBING, AND ASSOCIATED EQUIPMENT BASED ON THE APPROVED EQUIPMENT SUBMITTALS. MAKE ALL NECESSARY CHANGES TO THE SERVING CIRCUIT BREAKERS AND CABLING TO ACCOMMODATE THE APPROVED MECHANICAL EQUIPMENT.
- C. PROVIDE MOTOR STARTERS AT ALL REQUIRED MECHANICAL FANS OR MOTORS. COORDINATE WITH M.C. TO DETERMINE QUANTITIES AND LOCATIONS.

FLAG NOTES (X) :

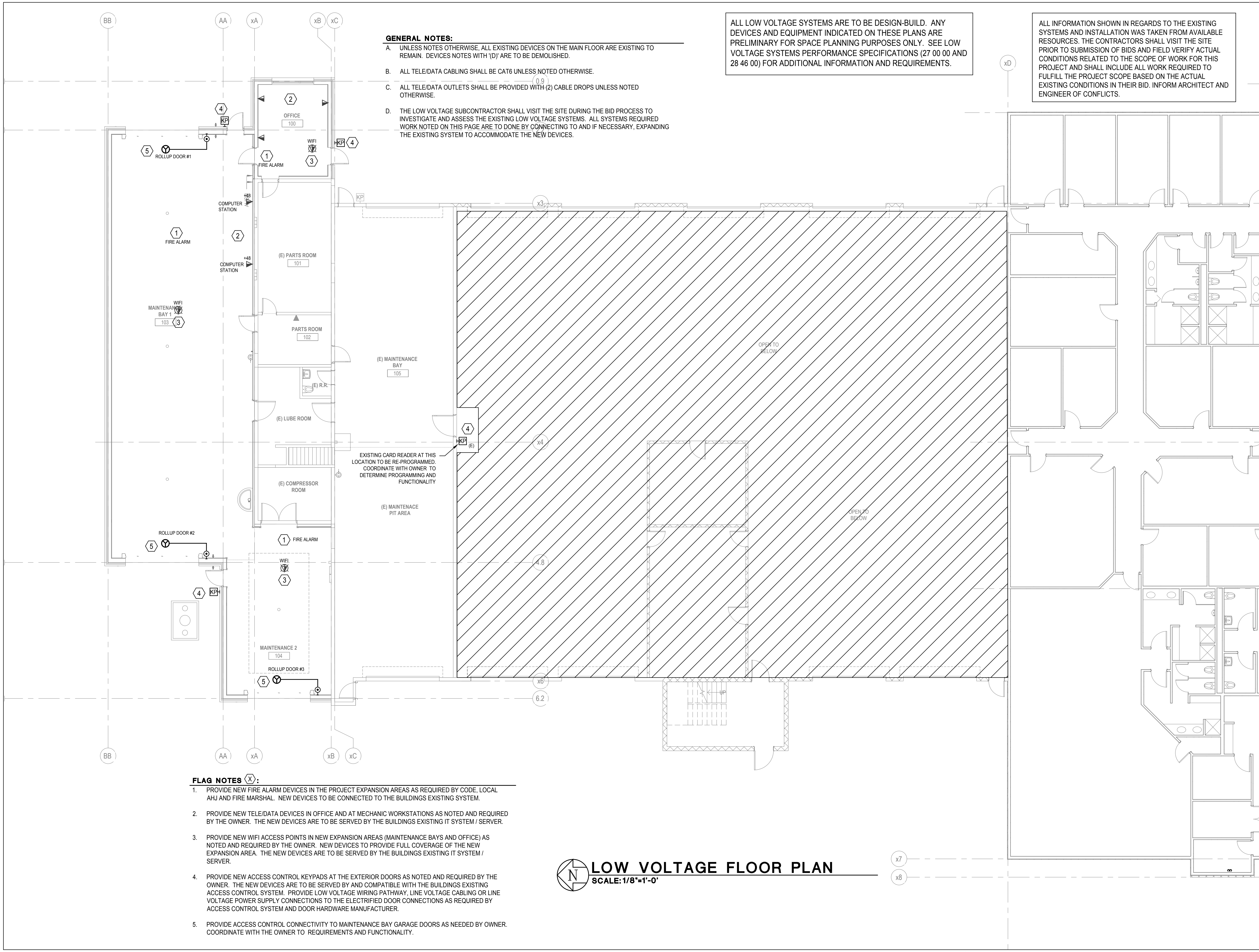
1. MOTORIZED DAMPERS, ON MAIN LEVEL, TO BE INTERLOCKED WITH EXHAUST FAN 'BEF'. SEE E22.02. CONNECT COMPLETE PER CODE AND MANUFACTURER INSTRUCTIONS. COORDINATE CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
2. PROVIDE POWER CONNECTION AND DISCONNECT FOR VEHICLE EXHAUST SYSTEM FAN. ELECTRICAL CONTRACTOR TO PROVIDE SUPPORTS AND INSTALL SYSTEM COMPONENTS (SUCH AS VFD, ETC.) AS NECESSARY PER CODE AND MANUFACTURER'S REQUIREMENTS. FIELD VERIFY INSTALLATION REQUIREMENTS, WIRING CONFIGURATION AND LOCATIONS WITH SYSTEM PROVIDER. ADVISE ENGINEER OF CONFLICTS.

ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS.



MECHANICAL POWER ROOF PLAN

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



- GENERAL NOTES:**
- A. UNLESS NOTES OTHERWISE, ALL EXISTING DEVICES ON THE MAIN FLOOR ARE EXISTING TO REMAIN. DEVICES NOTES WITH '(D)' ARE TO BE DEMOLISHED.
 - B. ALL TELE/DATA CABLING SHALL BE CAT6 UNLESS NOTED OTHERWISE.
 - C. ALL TELE/DATA OUTLETS SHALL BE PROVIDED WITH (2) CABLE DROPS UNLESS NOTED OTHERWISE.
 - D. THE LOW VOLTAGE SUBCONTRACTOR SHALL VISIT THE SITE DURING THE BID PROCESS TO INVESTIGATE AND ASSESS THE EXISTING LOW VOLTAGE SYSTEMS. ALL SYSTEMS REQUIRED WORK NOTED ON THIS PAGE ARE TO BE DONE BY CONNECTING TO AND IF NECESSARY, EXPANDING THE EXISTING SYSTEM TO ACCOMMODATE THE NEW DEVICES.

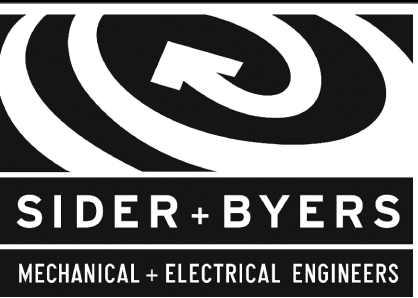
ALL LOW VOLTAGE SYSTEMS ARE TO BE DESIGN-BUILD. ANY DEVICES AND EQUIPMENT INDICATED ON THESE PLANS ARE PRELIMINARY FOR SPACE PLANNING PURPOSES ONLY. SEE LOW VOLTAGE SYSTEMS PERFORMANCE SPECIFICATIONS (27 00 00 AND 28 46 00) FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS.

- FLAG NOTES (X):**
- 1. PROVIDE NEW FIRE ALARM DEVICES IN THE PROJECT EXPANSION AREAS AS REQUIRED BY CODE, LOCAL AHJ AND FIRE MARSHAL. NEW DEVICES TO BE CONNECTED TO THE BUILDINGS EXISTING SYSTEM.
 - 2. PROVIDE NEW TELE/DATA DEVICES IN OFFICE AND AT MECHANIC WORKSTATIONS AS NOTED AND REQUIRED BY THE OWNER. THE NEW DEVICES ARE TO BE SERVED BY THE BUILDINGS EXISTING IT SYSTEM / SERVER.
 - 3. PROVIDE NEW WIFI ACCESS POINTS IN NEW EXPANSION AREAS (MAINTENANCE BAYS AND OFFICE) AS NOTED AND REQUIRED BY THE OWNER. NEW DEVICES TO PROVIDE FULL COVERAGE OF THE NEW EXPANSION AREA. THE NEW DEVICES ARE TO BE SERVED BY THE BUILDINGS EXISTING IT SYSTEM / SERVER.
 - 4. PROVIDE NEW ACCESS CONTROL KEYPADS AT THE EXTERIOR DOORS AS NOTED AND REQUIRED BY THE OWNER. THE NEW DEVICES ARE TO BE SERVED BY AND COMPATIBLE WITH THE BUILDINGS EXISTING ACCESS CONTROL SYSTEM. PROVIDE LOW VOLTAGE WIRING PATHWAY, LINE VOLTAGE CABLING OR LINE VOLTAGE POWER SUPPLY CONNECTIONS TO THE ELECTRIFIED DOOR CONNECTIONS AS REQUIRED BY ACCESS CONTROL SYSTEM AND DOOR HARDWARE MANUFACTURER.
 - 5. PROVIDE ACCESS CONTROL CONNECTIVITY TO MAINTENANCE BAY GARAGE DOORS AS NEEDED BY OWNER. COORDINATE WITH THE OWNER TO REQUIREMENTS AND FUNCTIONALITY.



LOW VOLTAGE FLOOR PLAN
SCALE: 1/8"=1'-0"



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AHJ APPROVAL STAMP

LOW-VOLTAGE SYSTEMS
FLOOR PLAN

SHEET #

E23.01

[illegible]

SHEET #

- A. ALL EXTERIOR / SITE LIGHTING FIXTURES TO HAVE AUTOMATIC ON/OFF CONTROL VIA BUILDING CONTROLS TIME CLOCK OR LOCAL PHOTOCELL
- B. ALL EXTERIOR LIGHTING FIXTURES TO COMPLY WITH DARK SKY REQUIREMENTS TO LIMIT GLARE AND UP-LIGHT. FIXTURE ARE PLACED IN LOCATIONS TO PREVENT LIGHT TRESPASS INTO ADJACENT PROPERTIES.
- C. MAINTAIN EXISTING BRANCH CIRCUITRY AND CONTROLS TO ALL EXISTING TO REMAIN EXTERIOR LIGHT FIXTURES.
- D. EXISTING LIGHTING CONTROLS IN APP AND MAINTENANCE BAYS ARE LUTRON.
- E. FIXTURE MOUNTING HEIGHTS:
 TYPE L1: 19-FEET AFF
 TYPE L2: 7.5- FEET AFF
 TYPE W1 & W2: 14- FEET AFF

1. EXISTING EXTERIOR APP BAY DOWNLIGHTS TO REMAIN.
2. EXISTING LIGHTING FIXTURES, BRANCH CIRCUITRY AND CONTROLS TO REMAIN IN THIS SPACE.
3. NEW EXTERIOR, BUILDING MOUNTED, AREA LIGHTS FOR THE NEW MAINTENANCE BAYS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. EXISTING LIGHTING CIRCUIT FOR EXTERIOR FIXTURES, WITH AUTOMATIC TIME CLOCK CONTROL, TO BE EXTENDED TO NEW MAINTENANCE BAY FIXTURES SO THEY OPERATE IN UNISON WITH EXISTING APP BAY LIGHTS.
5. PROVIDE NEW 3-WAY LINE VOLTAGE SWITCHING FOR CONTROL OF THE EXISTING FIXTURES IN THE PARTS ROOMS DUE TO NEW ENTRY DOOR LOCATIONS.

- THE EXISTING MAIN BUILDING LIGHTING CONTROLS SYSTEM IS TO REMAIN IN PLACE AND UNALTERED.
- THE NEW EXTERIOR LIGHT FIXTURES WILL BE CONNECTED TO THE EXISTING EXTERIOR LIGHTING CIRCUIT AND CONTROLS SWITCHLEG TO PROVIDE AUTOMATICALLY ACTIVATED ON/OFF TIME CLOCK CONTROL OF THE NEW LIGHTS PER PROGRAMMED BUILDING HOURS.
- THE NEW ENCLOSED OFFICE WILL HAVE A LOCAL VACANCY SENSOR FOR AUTOMATIC OFF AND WALL SWITCHES FOR MANUAL ACTIVATION OF FIXTURES. THE VACANCY SENSOR WILL ALSO PROVIDE ON/OFF CONTROL OF THE SWITCHED RECEPTACLES (SEE SHEET E22.01). A LOCAL PHOTOCCELL WILL PROVIDE AUTOMATIC DIMMING OF FIXTURES LOCATED IN THE INDICATED DAYLIGHT ZONES.
- THE NEW MAINTENANCE BAY AREAS WILL BE PROVIDED WITH LOCAL MANUAL WALL SWITCHES FOR ON/OFF CONTROL OF THE LIGHTING FIXTURES.
- THE MAINTENANCE BAY WILL HAVE INDUSTRIAL VEHICLE MECHANIC WORK OCCURRING AT ALL TIMES AND DUE TO WORKER SAFETY AUTOMATIC ON/OFF AND DAYLIGHT DIMMING WILL NOT BE REQUIRED FOR THIS SPACE, PER WSEC SECTION 405.2 EXEMPTION #4.

ALL INFORMATION SHOWN IN REGARDS TO THE EXISTING SYSTEMS AND INSTALLATION WAS TAKEN FROM AVAILABLE RESOURCES. THE CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS AND FIELD VERIFY ACTUAL CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT AND SHALL INCLUDE ALL WORK REQUIRED TO FULFILL THE PROJECT SCOPE BASED ON THE ACTUAL EXISTING CONDITIONS IN THEIR BID. INFORM ARCHITECT AND ENGINEER OF CONFLICTS.

