MERAMEC AMBULANCE DISTRICT - STATION NO. 4

385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

BIDDING / PERMIT DOCUMENTS

10/16/2026



ARCHITECTURAL

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143 WEST CLINTON PLACE
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CIVIL

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ST. LOUIS, MO 63127
T: 314-729-1400
www.cedc.net

STRUCTURAL

KPFF
1630 DES PERES RD. SUITE 100
ST. LOUIS, MO 63131
T: 314-835-0524
www.kpff.com

MEP/FP

HORNER & SHIFRIN
401 D. 18TH ST, SUITE 400
ST. LOUIS, MO 63103
T: 314-531-4321
www.hornershifrin.com

OWNER

MERAMEC AMBULANCE DIST.
3279 HIGHWAY 100
VILLA RIDGE, MO 63089
T: 636-451-5816

OWNER REPRESENTATIVE

NAVIGATE BUILDING SOLUTIONS
8419 MANCHESTER ROAD
ST. LOUIS, MO 63144
T: 314-710-3040
www.navigatebuildingsolutions.com

PROJECT ADDRESS

MERAMEC EMS - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

PROJECT LOCATION



STATE MAP

MO



SHEET INDEX

SHEET NUMBER	SHEET NAME	PERMIT DOCUMENTS: 4/13/2026	PERMIT DOCS - REVISED: 10/02/2026	PLAN REVIEW CORRECTIONS: 10/15/2026	BIDDING DOCUMENTS: 10/16/2026
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C3.0	EXISTING CONDITIONS & FACILITIES REMOVAL PLAN	■	■		■
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STATE OF MISSOURI
ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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[Consultants]

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/13/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
A	10/15/2026	PLAN REVIEW CORRECTIONS
	10/16/2026	BIDDING DOCUMENTS

COVER SHEET

Project No.
25083

Sheet No.
G001

Date
10/16/2026

10/16/2026 2:33:22 PM
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SITE IMPROVEMENT PLANS

for

MERAMEC AMBULANCE DISTRICT - STATION NO. 4

PART OF THE SOUTHEAST 1/4 IN SECTION 24
& PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 IN SECTION 25
& PART OF SPRUCE TREE ACRES PB.M PG.33
ALL IN TOWNSHIP 44 NORTH RANGE 2 EAST OF THE 5TH PRINCIPAL MERIDIAN
FRANKLIN COUNTY, MISSOURI

LEGEND

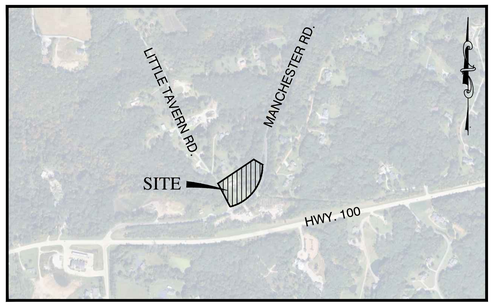
EXISTING CONTOURS
PROPOSED CONTOURS
EXISTING STORM SEWER
PROPOSED STORM SEWER
EXISTING SANITARY SEWER
PROPOSED SANITARY SEWER
RIGHT-OF-WAY
EASEMENT
CENTERLINE
EXISTING TREE
EXISTING SPOT ELEVATION
PROPOSED SPOT ELEVATION
SWALE
TO BE REMOVED
TO BE REMOVED & RELOCATED
TO BE USED IN PLACE
ADJUST TO GRADE
BACK OF CURB
FACE OF CURB
WATER MAIN
GAS MAIN
UNDERGROUND TELEPHONE
OVERHEAD WIRE
UNDERGROUND ELECTRIC
SILTATION CONTROL
FIRE HYDRANT
POWER POLE
WATER VALVE
LIGHT STANDARD

ABBREVIATIONS

N	NORTH
S	SOUTH
E	EAST
W	WEST
EX.	EXISTING
PR.	PROPOSED
CONC	CONCRETE
ASPH	ASPHALT
PB	PLAT BOOK
DB	DEED BOOK
PG	PAGE
SF	SQUARE FEET
AC	ACRES
ELEV	ELEVATION
FF	FINISH FLOOR
FL	FLOWLINE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
STM	STORM
SAN	SANITARY
(S)	SAVE
(R)	REMOVE
(T.B.R.)	TO BE REMOVED
(U.I.P.)	USE IN PLACE

SYMBOLS

WATER MANHOLE WMH
TELEPHONE MANHOLE TMH
BRUSH & SHRUB LINE
BOLLARD
SIGN
ELECTRIC YARD LIGHT
BORING LOCATION
MAIL BOX MB
ELECTRIC BOX EB
CLEAN OUT CO
GAS VALVE GV
GAS METER GM
GAS DRIP GD



LOCATION MAP
N.T.S.

PROPERTY DATA

OWNER	= MERAMEC AMBULANCE DISTRICT
SITE ADDRESS	= 385 OLD MANCHESTER RD. PACIFIC, MISSOURI 63069
LOC. #	= 08-6-24.0-0-000-040.100 & 18-1-12.0-0-000-015.000 & 18-6-13.0-0-015-001.100
SITE ACREAGE	= 181,102 SQ. FT. (4.16± AC)
SCHOOL DISTRICT	= MERAMEC VALLEY R-III
ZONING	= W

UTILITIES & AGENCIES

ELECTRIC COMPANY = AMEREN UE
500 E. INDEPENDENCE
UNION, MO 63084
PH. (636) 583-7144
ATTN: MARY O'LOUGHLIN

PHONE COMPANY = AT&T
164 CRESTWOOD PLAZA, SUITE 200
ST. LOUIS, MO 63126
PH. (314) 963-3846
ATTN: ENGINEERING

HIGHWAY DEPT. = FRANKLIN COUNTY HIGHWAY DEPARTMENT
400 E LOCUST
ROOM 003A
UNION, MO. 63084
PHONE: (636) 583-6361
JIM GRUTSCH, HIGHWAY ADMINISTRATOR
JGRUTSCH@FRANKLINMO.GOV

WATER COMPANY = NO PUBLIC WATER

SEWER COMPANY = NO PUBLIC SEWER

CABLE = CHARTER COMMUNICATIONS
MAPPING & DESIGN DEPARTMENT
941 CHARTER COMMONS
TOWN & COUNTRY, MO 63017
PH. (636) 220-2174

FIRE DISTRICT = BOLES FIRE PROTECTION DISTRICT
2731 HIGHWAY T
LABADIE, MO 63055
PH. (636) 742-2515
WWW.BOLESFIREDISTRICT.ORG
ATTN: JIM CASEY, FIRE CHIEF

SITE BENCHMARK

FINISH FLOOR OF MAIN BUILDING AS SHOWN ON THIS SURVEY = FF: 813.65'

FLOOD ZONE NOTES

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY DOES NOT LIE WITHIN ANY SPECIAL FLOOD ZONE AREAS ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL NUMBER 29071C0215E AND COMMUNITY NUMBER 290493 (FRANKLIN COUNTY UNINCORPORATED AREAS) WHICH BEARS AN EFFECTIVE DATE OF 6/5/2020. THE PROPERTY LIES WITHIN UNSHADED ZONE X (AREAS DETERMINED TO BE OUTSIDE 500 YEAR FLOOD PLAIN).

LEGAL DESCRIPTION

PARCEL 1:
ALL THAT PART OF THE SOUTHEAST QUARTER IN SECTION TWENTY-FOUR (24) LYING WEST OF MISSOURI STATE HIGHWAY NO. 100, NORTHEAST OF LITTLE TAVERN COUNTRY ROAD AND SOUTH OF LOT ONE (1) OF SPRUCE TREE ACRES, A SUBDIVISION AS PER PLAT OF RECORD IN PLAT BOOK M PAGE 33 IN THE OFFICE OF THE RECORDER OF DEEDS.

ALL THE PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER IN SECTION TWENTY-FIVE (25), LYING WEST OF MISSOURI STATE HIGHWAY NO. 100 AND NORTHEAST OF LITTLE TAVERN COUNTRY ROAD.

ALL IN TOWNSHIP FORTY-FOUR (44) NORTH, RANGE TWO (2) EAST OF THE 5TH P.M.

STORMWATER NOTE

DISTURBED AREA= 0.88 AC

0.88 AC < 1.0 AC LAND DISTURBANCE PER FRANKLIN COUNTY LAND USE REGULATIONS, ARTICLE 20, SECTION 360B & 363B, DETENTION IS NOT REQUIRED, MODNR PERMIT IS NOT REQUIRED.

SHEET INDEX

C1.0	TITLE SHEET
C2.0	SPECIFICATION SHEET
C3.0	EXISTING CONDITIONS & FACILITIES REMOVAL PLAN
C4.0	SITE AND GRADING PLAN
C5.0	SITE GEOMETRY AND UTILITY PLAN
C6.0	SEWER PROFILES & DETAILS
C7.0	SITE DETAILS
C8.0	DRAINAGE AREA PLAN
C9.0	STORMWATER POLLUTION PREVENTION PLAN
C9.1	STORMWATER POLLUTION PREVENTION PLAN DETAILS

NOTE:
CIVIL ENGINEERING DESIGN CONSULTANTS, INC. AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS, METHODS & MATERIALS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CIVIL ENGINEERING DESIGN CONSULTANTS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

UTILITY NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND , THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

NOTE TO CONTRACTOR:
CONTRACTOR/SUBCONTRACTOR SHALL INVESTIGATE, ASCERTAIN AND CONFORM TO ANY AND ALL PERMIT REQUIREMENTS OF THE (ANY) VARIOUS AFFECTED UTILITY COMPANIES AND/OR REGULATORY AGENCIES WITH REGARDS TO MAKING CONNECTIONS TO, OR CROSSINGS OF THEIR FACILITIES; WORKING WITHIN THEIR RIGHT-OF-WAY OR EASEMENTS; INSPECTIONS AND ASSOCIATED MONETARY CHARGES; AND/OR SPECIAL BACKFILL REQUIREMENTS. SUCH INVESTIGATION TO INCLUDE BUT NOT LIMITED TO THE MAKING OF NECESSARY APPLICATIONS AND PAYMENTS OF ALL REQUIRED FEES.

THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS OR PROFILES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO VERIFY THE FIELD LOCATIONS, ANTICIPATED CLEARANCES AND THE EXISTENCE OF ANY FACILITIES NOT SHOWN HEREON, AS PART OF THE INVESTIGATIONS IN THE PARAGRAPH ABOVE.

THE DEMOLITION PLAN IS FOR ILLUSTRATION OF THE GENERAL DEMOLITION ANTICIPATED FOR THIS PARTICULAR SITE. THE DEMOLITION PLAN DOES NOT REPRESENT ALL CONDITIONS THAT MAY BE ENCOUNTERED DURING DEMOLITION/CONSTRUCTION. THE CONTRACTOR SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH THE SITE AND THE DEMOLITION/CONSTRUCTION REQUIREMENTS PRIOR TO BIDDING. THE INTENT OF THE DEMOLITION IS TO PROVIDE A CLEAN STABLE SITE, READY FOR CONSTRUCTION OF THE PROJECT IN CONFORMANCE WITH THE CONSTRUCTION PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS THAT ARE IN KEEPING WITH THIS INTENT.

COUNTY APPROVAL OF ANY CONSTRUCTION SITE PLANS DOES NOT MEAN THAT ANY BUILDING CAN BE CONSTRUCTED ON THE LOTS WITHOUT MEETING THE BUILDING SETBACKS AS REQUIRED BY THE ZONING CODES.

ALL INSTALLATIONS AND CONSTRUCTION SHALL CONFORM TO THE APPROVED ENGINEERING DRAWINGS. HOWEVER, IF THE DEVELOPER CHOOSES TO MAKE MINOR MODIFICATIONS IN DESIGN AND/OR SPECIFICATIONS DURING CONSTRUCTION, THEY SHALL MAKE SUCH CHANGES AT THEIR OWN RISK, WITHOUT ANY ASSURANCE THAT THE COUNTY ENGINEER WILL APPROVE THE COMPLETED INSTALLATION OR CONSTRUCTION.

IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO NOTIFY THE COUNTY ENGINEER OF ANY CHANGES FROM THE APPROVED DRAWINGS. THE DEVELOPER MAY BE REQUIRED TO CORRECT THE INSTALLED IMPROVEMENT SO AS TO CONFORM TO THE APPROVED ENGINEERING DRAWINGS. THE DEVELOPER MAY REQUEST A LETTER FROM THE CONSTRUCTION INSPECTION DIVISION REGARDING ANY FIELD CHANGES APPROVED BY THE COUNTY INSPECTOR.

LIGHTING VALUES WILL BE REVIEWED ON SITE PRIOR TO THE FINAL OCCUPANCY INSPECTION.

NOTE:

THE UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SOURCES AND THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE ACTUAL LOCATIONS OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THIS DRAWING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO GRADING OR CONSTRUCTION OF IMPROVEMENTS.

Call BEFORE you DIG
TOLL FREE
1-800-DIG-RITE
MISSOURI ONE-CALL SYSTEM, INC.

PREPARED FOR:
ARCHIMAGES, INC.
143 WEST CLINTON PLACE
ST. LOUIS, MISSOURI 63122
(314) 965-7445

PREPARED BY:
CEDC CIVIL ENGINEERING DESIGN CONSULTANTS
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314.729.1400
Fax: 314.729.1404
www.cedc.net

STATE OF MISSOURI
BRANDON ASHER HARP
NUMBER E-28650
PROFESSIONAL ENGINEER
10/16/26

BRANDON A. HARP, P.E. E-28650
PROFESSIONAL ENGINEER
CEDC LICENSE NO.: 2003004674

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PACIFIC MO 63069

No.	Date	Revision
	04/15/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

TITLE SHEET

Project No.
CEDC 2621

C1.0

Date
10/16/2026

GENERAL NOTES

1.) ANY UTILITIES SHOWN HAVE BEEN LOCATED FROM AVAILABLE RECORDS. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. THE CONTRACTOR SHALL BE ON RECORD WITH THE MISSOURI ONE CALL SYSTEM. ALL PROPOSED UTILITIES SHALL BE UNDERGROUND.

2.) BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY MARLER SURVEYING COMPANY.

3.) ALL ON-SITE MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF FRANKLIN COUNTY HIGHWAY DEPARTMENT AND MODOT.

4.) ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED BY FRANKLIN COUNTY.

5.) PRIOR TO BEGINNING ANY WORK ON THE SITE, THE SUBCONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.

6.) ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS. ALL IMPORT SOILS TO BE PRE-APPROVED BY THE SOILS ENGINEER PRIOR TO IMPORT.

7.) CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS AT ALL TIMES.

8.) ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH FRANKLIN COUNTY.

9.) REFER TO LANDSCAPE DRAWINGS FOR VEGETATION PROPOSED FOR ALL DISTURBED AREAS.

10.) SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ADAA GUIDELINES AND THE INFORMATION ON THE PLANS, THE ADAA GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION.

11.) NO GRADE SHALL EXCEED 3:1 SLOPE UNLESS APPROVED BY GEOTECHNICAL ENGINEER

12.) ALL LANDSCAPED AREAS TO BE FILLED WITH A MINIMUM OF 6" OF CLEAN TOPSOIL. TOPSOIL REQUIRED TO BE APPROVED BY THE SOILS ENGINEER PRIOR TO IMPORT AND PLACEMENT.

13.) ALL LANDSCAPED AREAS DISTURBED BY OFF-SITE WORK SHALL BE IMMEDIATELY SEEDED OR SODDED AS DIRECTED BY FRANKLIN COUNTY HIGHWAY DEPARTMENT.

14.) ADEQUATE TEMPORARY OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES SHALL BE PROVIDED. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEES' VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS CLEAN OF DEBRIS AT ALL TIMES.

15.) SAFETY NOTICE TO CONTRACTOR PRACTICES: THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

16.) ALL PUBLIC ROADS MUST BE KEPT CLEAR OF MUD AND DEBRIS AT ALL TIMES. FAILURE TO DO SO WILL BE CAUSE FOR THE CITY TO SUSPEND WORK.

17.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RAZING AND REMOVAL OF EXISTING STRUCTURES, INCLUDING FOUNDATIONS, RELATED UTILITIES, PAVING, UNDERGROUND FACILITIES AND ANY OTHER EXISTING IMPROVEMENTS.

18.) THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO ADJACENT PROPERTIES DURING ALL PHASES OF THE CONSTRUCTION.

19.) ALL WORK SHALL BE BE COORDINATED WITH THE OWNER'S GEOTECHNICAL TESTING AGENCY.

20.) THIS DEVELOPMENT SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH IN THE ORDINANCES BY FRANKLIN COUNTY AND THE STATE OF MISSOURI.

GEOTECHNICAL'S ENGINEER STATEMENT

THIS PLAN HAS BEEN REVIEWED BY THE UNDERSIGNED REGARDING COMPLIANCE WITH SITE DEVELOPMENT ISSUES WITH RESPECT TO THE GEOTECHNICAL RECOMMENDATIONS AND CONSIDERATIONS CONTAINED IN OUR GEOTECHNICAL REPORT FOR THE PROJECT DATED NOVEMBER 2025. IT IS OUR PROFESSIONAL OPINION THAT THE EARTH SLOPES AND GRADES SHOWN ARE IN COMPLIANCE WITH A MAXIMUM SLOPE OF 3 HORIZONTAL TO 1 VERTICAL, AND GENERALLY SUITABLE FOR THE PLANNED DEVELOPMENT. WE MUST BE INVOLVED DURING THE CONSTRUCTION PHASE TO DETERMINE THAT SUBSURFACE CONDITIONS ARE AS ANTICIPATED AND THAT RECOMMENDATIONS RELATIVE TO CONSTRUCTION ARE IMPLEMENTED AND DOCUMENTED.

SCI ENGINEERING, INC.

TIMOTHY BARRETT, PE, D.GE.
MISSOURI NUMBER
DATE: _____

EARTHWORK NOTES

BULK CUT 1815 +/- CUBIC YARD
BULK FILL 313 +/- CUBIC YARD (INCLUDES 15% FOR SHRINKAGE)

THE CALCULATED EARTHWORK QUANTITIES SHOULD BE REGARDED AS AN ESTIMATE OF THE BULK MOVEMENT AND/OR REDISTRIBUTION OF SOILS FOR THE SUBJECT PROPERTY. THE CALCULATED QUANTITIES ARE INTENDED FOR GENERAL USE, AND SHOULD BE USED AS A COMPARISON WITH THE QUANTITIES CALCULATED BY THE EARTHWORK SUBCONTRACTOR. THE ENGINEER ASSUMES NO LIABILITY FOR COST OVERRUNS DUE TO EXCESS EXCAVATED MATERIALS OR FILL SHORTAGES. THE EARTHWORK CONTRACTOR IS REQUIRED TO PREPARE THEIR OWN ESTIMATE AND ANY DISCREPANCIES WITH THE RESULTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

THE EARTHWORK QUANTITIES ESTIMATED FOR THE SUBJECT SITE ARE BASED UPON HORIZONTAL AND VERTICAL LOCATION OF THE IMPROVEMENTS AS PROPOSED ON THE SITE ENGINEERING PLANS PREPARED BY CIVIL ENGINEERING DESIGN CONSULTANTS, INC.

THE ENGINEER'S ESTIMATE DOES NOT INCLUDE ANY OF THE FOLLOWING ITEMS PERTAINING TO EARTHWORK QUANTITIES THAT MAY BE NECESSARY FOR COMPLETION OF THE PROJECT:
A.) MISCELLANEOUS UNDERGROUND CONDUITS AND MANHOLES
B.) SEWER LINES AND WATER MAINS TWELVE INCHES OR LESS IN DIAMETER.
C.) STORM & SANITARY SEWER STRUCTURES EXCAVATION.
D.) UTILITY AND/OR LIGHT STANDARD BASES
E.) FOOTINGS AND FOUNDATION EXCAVATION.

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACTUAL SIZE OF THE FIELD EXCAVATIONS MADE FOR THE INSTALLATION OF UNDERGROUND STRUCTURES, AND THEREFORE, THE ACTUAL EARTHWORK QUANTITIES MAY VARY FROM THE THESE ESTIMATED QUANTITIES. THE ENGINEER ALSO ASSUMES NO RESPONSIBILITY FOR COSTS INCURRED DUE TO THE REMOVAL OF UNSUITABLE MATERIAL WHICH MUST BE REMOVED FROM THE SITE.

ALL AREAS OF FILL SHALL BE COMPLETED BEFORE ANY SOILS ARE REMOVED FROM SITE.
ASSUMPTIONS:
1.) IT IS ASSUMED THAT THE TOPSOIL WILL BE REUSED ON-SITE WITHIN LANDSCAPING AREAS AND WILL NOT BE HAULED OFF.
2.) SUBGRADE FOR BUILDING PAD – ASSUMED 8"
3.) SUBGRADE FOR PAVEMENT SECTIONS – ASSUMED 11"
4.) ASSUMED 15% SHRINKAGE FACTOR

GENERAL:

1. INCLUDE IN THE BASE BID SOIL REMEDIATION BELOW THE BUILDING PAD AND ALL FOOTINGS PER RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. INCLUDE REMEDIATION TO DEPTHS OF 3' BELOW THE BOTTOM OF FLOOR SLAB, 2' BELOW BOTTOM OF PERIMETER BUILDING FOOTINGS AND EXTENDING 2' BEYOND THE EDGE OF THE BUILDING AREA. INCLUDE IMPORT/PLACEMENT/COMPACTION OF ENGINEERED FILL (1" MINUS CRUSHED LIMESTONE) AND HAUL OFF OF UNSUITABLE MATERIAL. INCLUDE RECOMPACTION AS DIRECTED BY THE MATERIALS TESTING AGENCY AT THE BOTTOM OF FOOTINGS FOLLOWING FOOTING EXCAVATION INTO THE GRANULAR REMEDIATION MATERIAL.
2. INCLUDE IN THE BASE BID REMOVAL OF 12" OF SOILS BELOW PAVEMENT SUBGRADE. TREAT WITH LIME, REPLACE AND RECOMPACT SOIL. REFER TO THE GEOTECHNICAL REPORT FOR RECOMMENDED LIME CONCENTRATIONS.
3. IF THE TESTING AND INSPECTIONS AGENT DETERMINES THAT MORE OR LESS REMEDIATION IS NEEDED THAN WHAT IS INCLUDED ABOVE, THE DIFFERENCE SHALL BE ADDRESSED WITH AN ADD OR CREDIT CHANGE ORDER USING THE UNIT PRICES IN ON THE SUPPLEMENTAL BID INFORMATION FORM. IN SUCH CASE, UNIT QUANTITIES MUST BE TRACKED BY THE CONTRACTOR AND CONFIRMED BY THE MATERIALS TESTING AND INSPECTIONS AGENCY.
4. NO CHANGE ORDERS WILL BE AWARDED FOR ADDITIONAL FORMING OR ADDITIONAL CONCRETE IN OVER EXCAVATED FOOTINGS. NO CHANGE ORDERS WILL BE AWARDED FOR ADDITIONAL FORMING OF FOOTINGS WHERE GEOTECHNICAL BORINGS INDICATE THE EXISTENCE OF ROCK AT FOOTING DEPTHS.

GRADING NOTES

1. NOTIFY FRANKLIN COUNTY DEPARTMENT OF PUBLIC WORKS 48 HOURS PRIOR TO THE COMMENCEMENT OF GRADING AND/OR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS. CONTRACTOR SHALL KEEP ROAD CLEAR OF MUD AND DEBRIS.
3. THE STREETS SURROUNDING THIS DEVELOPMENT AND ANY STREET USED FOR CONSTRUCTION ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
4. EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY AND ADEQUATE VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.
5. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY FRANKLIN COUNTY.
6. TEMPORARY SILTATION CONTROL MEASURES (STRUCTURAL) SHALL BE MAINTAINED UNTIL VEGETATIVE COVER IS ESTABLISHED AT A SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON THE SITE.
7. WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
8. WHEN CLEARING AND/OR GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 14 DAYS, ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO RETAIN SOIL MATERIALS ON SITE. PROTECTIVE MEASURES MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS. SUCH AS PERMANENT SEEDING, PERIODIC WETTING, MULCHING, OR OTHER SUITABLE MEANS.
9. IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.
10. ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENT) SHALL BE SEEDED/SODDED.
11. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENT WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE SILTATION FENCE.
12. ALL TRASH AND DEBRIS ON-SITE, EITHER OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE.
13. ANY WELLS, CISTERNS AND/OR SPRINGS, WHICH MAY EXIST ON THIS PROPERTY, SHOULD BE LOCATED AND SEALED IN A MANNER ACCEPTABLE TO FRANKLIN COUNTY AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.
14. ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE (33%), UNLESS SPECIFICALLY APPROVED OTHERWISE.
15. STORM WATER PIPES, OUTLETS, AND CHANNELS SHALL BE PROTECTED BY SILT OF WASTE AND SLIT AT ALL TIMES PRIOR TO FINAL BARRIERS AND KEPT FREE SURFACE STABILIZATION AND/OR PAVING.
16. NO CONSTRUCTION PARKING SHALL BE PERMITTED ON OLD MANCHESTER RD.
17. NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OR ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PUBLIC OR PRIVATE STREET OR PROPERTY FROM SETTLING, CRACKING OR OTHER DAMAGE.
18. GRADED AREAS THAT ARE TO REMAIN BARE FOR OVER 2 WEEKS SHALL BE SEEDED AND MULCHED. (DNR REQUIREMENT).
19. ALL EROSION CONTROL SYSTEMS ARE TO BE INSPECTED AND CORRECTED WEEKLY, ESPECIALLY WITHIN 48 HOURS OF ANY RAINSTORM RESULTING IN ONE-HALF INCH OF RAIN OR MORE. ANY SILT OR DEBRIS LEAVING THE SITE AND AFFECTING PUBLIC RIGHTS-OF-WAYS OR STORM WATER DRAINAGE FACILITIES SHALL BE CLEANED UP WITHIN 24 HOURS OF THE END OF THE STORM.
20. ALL FILL PLACED UNDER PROPOSED STORM AND SANITARY SEWER, PROPOSED ROADS, AND/OR PAVED AREAS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 100% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ALL FILL PLACED IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS. NOTE THAT THE MOISTURE CONTENT OF THE SOIL IN THE FILL AREAS IS TO CORRESPOND TO THE COMPACTIVE EFFORT AS DEFINED BY THE STANDARD OR MODIFIED PROCTOR TEST. OPTIMUM MOISTURE CONTENT SHALL BE DETERMINED USING THE SAME TEST THAT WAS USED FOR COMPACTION. SOIL COMPACTION CURVES SHALL BE SUBMITTED TO FRANKLIN COUNTY PRIOR TO THE PLACEMENT OF FILL. PROOF ROLLING MAY BE REQUIRED TO VERIFY SOIL STABILITY AT THE DISCRETION OF FRANKLIN COUNTY.
21. THE PERMITTEE SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE PERMITTEE SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, STAKED STRAW BALES AND/OR SILTATION FABRIC FENCES (POSSIBLE METHODS ARE DETAILED IN THE PLAN). CONTROL SHALL COMMENCE WITH GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY FRANKLIN COUNTY. THE PERMITTEE'S RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. FRANKLIN COUNTY MAY AT THEIR OPTION DIRECT THE PERMITTEE IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILT OR MUD IN NEW OR EXISTING PAVEMENT SHALL BE REMOVED IMMEDIATELY. ANY DEPOSITING OF SILT OR MUD IN NEW OR EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF FRANKLIN COUNTY.
22. ALL LOW PLACES WHETHER ON-SITE OF OFF-SITE SHALL BE GRADED TO ALLOW DRAINAGE. THIS CAN BE ACCOMPLISHED WITH TEMPORARY DITCHES. ANY OFF-SITE DRAINAGE EASEMENTS WILL BE ACQUIRED BEFORE GRADING BEGINS.

HYDROSEEDING NOTES

DESCRIPTION. THE WORK COVERED BY THIS SECTION CONSISTS OF FURNISHING, SOWNG, AND ESTABLISHING AN ACCEPTABLE GROWTH OF GRASS FROM SPECIFIED SEEDS ON DESIGNATED PROJECT AREAS BY HYDRAULICALLY SOWNG OF THE SEEDS AND HYDRAULICALLY MULCHING THE SEEDED AREAS.

BASIC WORK CONSISTS OF GROUND PREPARATION; FURNISHING AND INCORPORATION OF FERTILIZER; THE FURNISHING AND SOWNG OF THE SEEDS DURING THE DESIGNATED SOWNG SEASON, THE FURNISHING AND APPLICATION OF MULCHING MATERIAL AND ADHESIVE. THE FURNISHING AND APPLICATION OF WATER AS NECESSARY TO ESTABLISH AND MAINTAIN THE GRASS DURING THE PERIOD OF THE CONTRACT.

MATERIALS.

SEED. SEEDS SHALL MEET THE REQUIREMENTS OF MODOT

MULCH. MULCH SHALL BE DESIGNATED AS CLASS A MULCH. THE MULCH SHALL CONSIST OF WOOD CELLULOSE FIBER OR NATURAL WOOD FIBER THAT IS SPECIALLY PREPARED AND CONTAINS CLEAN WHOLE CUT CHIPS. IT SHALL BE PROCESSED IN SUCH A MANNER THAT IT WILL CONTAIN NO GROWTH OR GERMINATION INHIBITING FACTORS AND SHALL BE DYED AND APPROPRIATE COLOR TO FACILITATE A UNIFORM SPREAD BY VISUAL INSPECTION. IT SHALL BE MANUFACTURED IN SUCH A MANNER THAT AFTER ADDITION AND AGITATION IN SLURRY TANKS WITH FERTILIZERS, GRASS SEEDS, WATER AND OTHER APPROVED ADDITIVES, THE FIBERS IN THE MATERIAL WILL BECOME UNIFORMLY SUSPENDED TO FORM A HOMOGENOUS SLURRY; AND THAT WHEN HYDRAULICALLY SPRAYED ON THE GROUND, THE MATERIAL WILL FORM A BLOTTER LIKE GROUND COVER IMPREGNATED UNIFORMLY WITH GRASS SEED; AND WHICH AFTER APPLICATION WILL ALLOW THE ABSORPTION OF MOISTURE AND ALLOW RAINFALL OR MECHANICAL WATERING TO PERCOLATE TO THE UNDERLYING SOIL.

ADHESIVE. AN ORGANIC TACKIFIER ADHESIVE APPLICABLE TO HYDROSEEDING SHALL BE INCORPORATED IN THE MIXTURE AND APPLIED FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS BASED ON DEGREE OF SLOPE.

CONSTRUCTION REQUIREMENTS.

GENERAL.

ADHESIVE, FERTILIZER, AND MULCH SHALL BE APPLIED AS A PART OF THE HYDROSEEDING MIXTURE INCORPORATED IN AND APPLIED WITH THE WATER-SEED MIXTURE.

EQUIPMENT. EQUIPMENT FOR APPLYING SEED BY THE HYDROSEEDING METHOD SHALL BE DESIGNED FOR THIS PURPOSE AND SHALL BE CAPABLE OF PUMPING A MULCH-WATER-SEED-FERTILIZER-ADHESIVE MIXTURE UNIFORMLY OVER THE AREA TO BE SEEDED. POWER DRIVEN AGITATORS SHALL BE PROVIDED TO KEEP THE MIXTURE UNIFORM DURING THE APPLICATION.

APPLICATION. AFTER COMPLETION OF GROUND PREPARATION, THE SEED MIXTURE SHALL BE APPLIED BY APPROVED EQUIPMENT IN SUCH A MANNER THAT THE SEED WILL BE DISPERSED AT THE RATES SPECIFIED IN. MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 2000 POUNDS PER ACRE.

FERTILIZER SHALL BE APPLIED HYDRAULICALLY AS A PART OF THE HYDROSEEDING MIXTURE AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

CONTRACTOR SHALL EXERCISE SPECIAL CARE TO PREVENT THE HYDROSEEDING MIXTURE FROM BEING SPRAYED ONTO ANY HARDSCAPE AREAS INCLUDING BUT NOT LIMITED TO CONCRETE WALKS, FENCES, WALLS, BUILDINGS, ASPHALT PAVING, PLAY GROUND EQUIPMENT OR VEHICLES AROUND THE CONSTRUCTION SITE. ANY HYDROSEEDING MIXTURE SPRAYED ONTO THESE SURFACES SHALL BE REMOVED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

CARE DURING CONSTRUCTION. THE CONTRACTOR SHALL WATER, AND OTHERWISE PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL THE CONTRACT IS ACCEPTED. DAMAGE BY EITHER PEDESTRIAN, VEHICULAR TRAFFIC OR OTHER CAUSES SHALL BE REPAIRED BY THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH AND MAINTAIN A SATISFACTORY STAND OF GRASS PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. MAINTENANCE/REPAIR SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.

STORM SEWER NOTES

1. ALL CONCRETE PIPE SHALL BE REINFORCED AND CONFORM TO A.S.T.M. DESIGNATION C76-80 CLASS III UNLESS NOTED.
2. ALL SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH FRANKLIN COUNTY STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES.
3. TYPE "C" BEDDING PER FRANKLIN COUNTY IS REQUIRED FOR PIPES IN ROCK.
4. ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE GRANULARLY FILLED WITH 3/4" MINUS CRUSHED LIMESTONE ONLY. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH FRANKLIN COUNTY STANDARDS.
5. ALL TRENCH BACKFILLS UNDER PAVEMENT WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILLED. TRENCH BACKFILLS UNDER PAVED AREAS, OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILL IN LIEU OF THE EARTH BACKFILL COMPACTED TO 95 PERCENT OF THE STANDARD AASHTO T-99 COMPACTION TEST A.S.T.M. D-698.
6. JETTING IS NOT AN ACCEPTABLE METHOD OF ACHIEVING BACKFILL COMPACTION. ALL BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO AT LEAST 95 PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY.
7. FOR SEWER PIPE (STORM, SANITARY AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO FRANKLIN COUNTY INSPECTOR UPON REQUEST.

   FIELD SURVEYED VERIFICATION MUST BE MADE UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE WHICH IS FLATTER THAN THE DESIGN GRADE BY MORE THAN 0.1%. SEWERS WITH GRADES GREATER THAN THE DESIGN SLOPE MAY BE LEFT IN PLACE, PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT GRADE.

   FRANKLIN COUNTY ALSO RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE ANY SEWER (AT ANY TIME PRIOR TO CONSTRUCTION APPROVAL) FOR WHICH THE AS-BUILT GRADE DOES NOT COMPLY WITH THE GRADE TOLERANCE STATED IN THE ABOVE PARAGRAPH.

   THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE OR ASSOCIATED APPURTENANCES.
8. ADJUSTMENT OF MANHOLE TO GRADE:
   IF A MANHOLE IS TO BE RAISED: MANHOLES MAY BE RAISED USING COURSES OF BRICK OR APPROVED GRADE RING(S), PROVIDED THE TOTAL ADJUSTMENT OF THE MANHOLE DOES NOT EXCEED 12-INCHES (INCLUDING THE EXISTING RINGS OR COURSES OF BRICK). FOR MANHOLES WHICH WILL EXCEED THE MAXIMUM OF 12-INCHES, THE TRANSITION SECTION OF THE STRUCTURE SHALL BE REMOVED AND THE BOTTOM SECTION RAISED USING THE SAME MATERIAL AS THE EXISTING STRUCTURE.

   IF A MANHOLE IS TO BE LOWERED:
   MANHOLES MAY BE LOWERED BY REMOVING THE TRANSITION SECTION, AND LOWERING THE EXISTING BOTTOM SECTION BY SAWCUTTING THE EXISTING CAST-IN-PLACE CONCRETE, REMOVING THE REQUIRED COURSES OF BRICK, OR REMOVING THE PRECAST RISER SECTION AS APPROPRIATE.
9. IF STORM AND SANITARY SEWERS ARE PARALLEL AND IN THE SAME TRENCH, THE UPPER PIPE SHALL BE PLACED ON A SHELF AND THE LOWER PIPE SHALL BE BEDDED IN COMPACTED GRANULAR FILL TO THE FLOW LINE OF THE UPPER PIPE.

SANITARY SEWER NOTES

1. ALL SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH FRANKLIN COUNTY PWSD #1
2. 6" AND 8" LATERALS CONSTRUCTED OF PVC S.D.R.-35 THICKWALL PIPE, A.S.T.M. D-3034.
3. 6" AND 8" LATERAL JOINTS TO CONFORM TO A.S.T.M. STANDARD S.D.R.-35 THICKWALL COMPRESSION JOINT FOR PVC.
4. ALL MANHOLE FRAMES AND COVERS SHALL BE FRANKLIN COUNTY STANDARD FRAME AND COVER.
5. ALL LATERAL SEWER CONSTRUCTION METHODS TO CONFORM TO LATEST STANDARDS AND SPECIFICATIONS OF THE FRANKLIN COUNTY PLUMBING CODE.
6. ALL TRENCHES UNDER AREAS TO BE PAVED SHALL BE GRANULARLY FILLED WITH 3/4" CRUSHED LIMESTONE. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH FRANKLIN COUNTY STANDARDS.
7. CONTRACTOR TO START LAYING PIPE AT DOWNSTREAM MANHOLE AND WORK UPSTREAM.
8. CLEANOUTS SHALL BE LOCATED AT ALL HORIZONTAL AND VERTICAL CHANGES IN DIRECTION OF SANITARY LATERALS AND ANY SANITARY LATERAL 100 FEET OR LONGER.
9. TYPE "C" BEDDING PER FRANKLIN COUNTY STANDARDS REQUIRED FOR PIPES IN ROCK.
10. VERTICAL CLEARANCE BETWEEN SEWER AND WATER MAINS SHALL BE A MINIMUM OF 24".
11. ALL TRENCH BACKFILLS UNDER PAVEMENT WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILLED. TRENCH BACKFILLS UNDER PAVED AREAS, OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILL IN LIEU OF THE EARTH BACKFILL COMPACTED TO 95 PERCENT OF THE STANDARD AASHTO T-99 COMPACTION TEST A.S.T.M. D-698.
12. JETTING IS NOT AN ACCEPTABLE METHOD OF ACHIEVING BACKFILL COMPACTION. ALL BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO AT LEAST 95 PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY.
13. FOR SEWER PIPE (STORM, SANITARY AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO FRANKLIN COUNTY INSPECTOR UPON REQUEST.

    FIELD SURVEYED VERIFICATION MUST BE MADE UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE WHICH IS FLATTER THAN THE DESIGN GRADE BY MORE THAN 0.1%. SEWERS WITH GRADES GREATER THAN THE DESIGN SLOPE MAY BE LEFT IN PLACE, PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT GRADE.

    FRANKLIN COUNTY ALSO RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE ANY SEWER (AT ANY TIME PRIOR TO CONSTRUCTION APPROVAL) FOR WHICH THE AS-BUILT GRADE DOES NOT COMPLY WITH THE GRADE TOLERANCE STATED IN THE ABOVE PARAGRAPH.

    THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE OR ASSOCIATED APPURTENANCES.
14. ADJUSTMENT OF MANHOLE TO GRADE:
    If a manhole is to be raised: Manholes may be raised using courses of brick or approved grade ring(s), provided the total adjustment of the manhole does not exceed 12-inches (including the existing rings or courses of brick). For manholes which will exceed the maximum of 12-inches, the transition section of the structure shall be removed and the bottom section raised using the same material as the existing structure.

    If a manhole is to be lowered: manholes may be lowered by removing the transition section, and lowering the existing bottom section by sawcutting the existing cast-in-place concrete, removing the required courses of brick, or removing the precast riser section as appropriate.
15. MAINTENANCE OF THE SEWERS DESIGNATED AS "PUBLIC" SHALL BE THE RESPONSIBILITY OF FRANKLIN COUNTY UPON DEDICATION OF THE SEWERS TO THE DISTRICT.
16. FOUNDATION DRAINS, IF INSTALLED, SHALL NOT CONNECT TO THE SANITARY SEWER.
17. IF STORM AND SANITARY SEWERS ARE PARALLEL AND IN THE SAME TRENCH, THE UPPER PIPE SHALL BE PLACED ON A SHELF AND THE LOWER PIPE SHALL BE BEDDED IN COMPACTED GRANULAR FILL TO THE FLOW LIN

SCHEDULE "B" TITLE EXCEPTION NOTES

THIS SURVEY IS BASED ON A INFORMATIONAL TITLE REPORT PREPARED BY ST. LOUIS TITLE COMPANY, FILE NO.STL25O5974-MM, DATED JULY 28, 2025 AT 8:00 A.M. ITEMS NOT LISTED BELOW ARE STANDARD EXCEPTIONS AND/OR ARE NOT MATTERS OR ISSUES THAT PERTAIN TO THIS SURVEY.

2. RIGHT OF WAY AND EASEMENT FOR THE PURPOSES OF CONSTRUCTION AND MAINTENANCE OF A STATE HIGHWAY GRANTED TO THE STATE OF MISSOURI, ACCORDING TO INSTRUMENT RECORDED IN BOOK 95 PAGE 474. AFFECTS SUBJECT PROPERTY, LIES WITHIN STATE RIGHT-OF-WAY, PLANS FROM MISSOURI DEPARTMENT OF TRANSPORTATION WERE NOT PROVIDED TO THE LAND SURVEYOR.

3. RIGHTS OF THE PUBLIC AND OTHERS IN AND TO ANY PORTION OF THE SUBJECT LAND LYING WITHIN THE AREA COMMONLY KNOWN AS LITTLE TAVERN COUNTY ROAD.
AFFECTS SUBJECT PROPERTY, LIES WITHIN RIGHT-OF-WAY OF LITTLE TAVERN COUNTY ROAD. LITTLE TAVERN COUNTY ROAD IS 30' WIDE PER. THE CURRENT FRANKLIN COUNTY ASSESSOR MAPS. ROADWAY WIDTH IS SUBJECT TO FRANKLIN COUNTY PLANNING AND ZONING AND FRANKLIN COUNTY ROAD DEPARTMENT.

4. RIGHTS OF THE PUBLIC AND OTHERS IN AND TO ANY PORTION OF THE SUBJECT LAND LYING WITHIN THE AREA COMMONLY KNOWN AS MANCHESTER ROAD.
AFFECTS SUBJECT PROPERTY, LIES WITHIN RIGHT-OF-WAY OF MANCHESTER ROAD ALSO KNOWN AS OLD 66.

NOTES:

1. FRANKLIN COUNTY HIGHWAY DEPARTMENT PERMIT REQUIRED FOR ALL WORK IN RIGHT-OF-WAY.
2. FRANKLIN COUNTY HIGHWAY DEPARTMENT FOR PERMIT FOR WORK IN MANCHESTER ROAD RIGHT OF WAY.

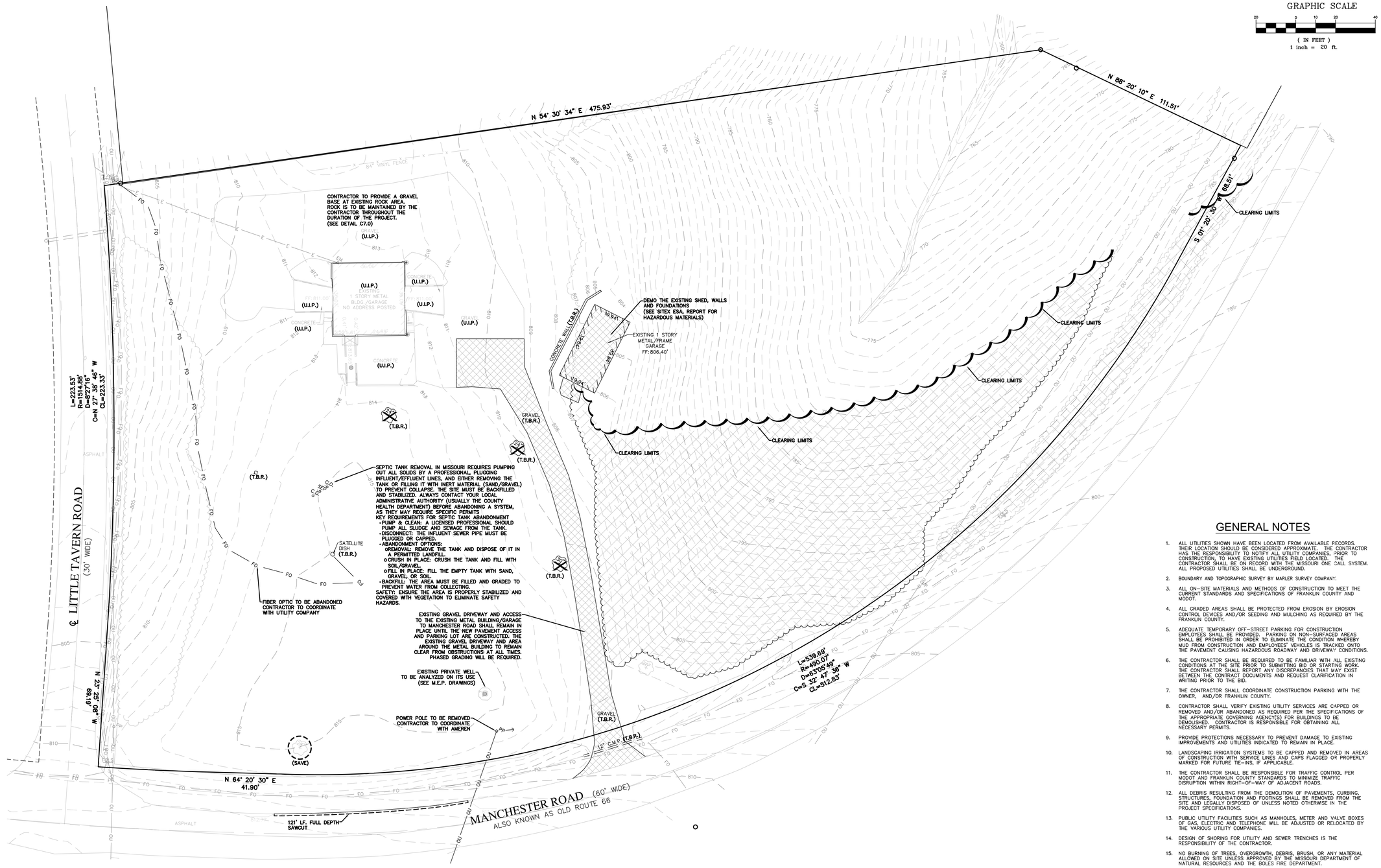
LEGEND

- PAVEMENT REMOVAL
- WOODLAND REMOVAL
- (T.B.R.) TREE TO BE REMOVED
- (SAVE) TREES TO BE PROTECTED

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



GENERAL NOTES

1. ALL UTILITIES SHOWN HAVE BEEN LOCATED FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. THE CONTRACTOR SHALL BE ON RECORD WITH THE MISSOURI ONE CALL SYSTEM. ALL PROPOSED UTILITIES SHALL BE UNDERGROUND.
2. BOUNDARY AND TOPOGRAPHIC SURVEY BY MARLER SURVEY COMPANY.
3. ALL ON-SITE MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF FRANKLIN COUNTY AND MODOT.
4. ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED BY THE FRANKLIN COUNTY.
5. ADEQUATE TEMPORARY OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES SHALL BE PROVIDED. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEES' VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.
6. THE CONTRACTOR SHALL BE REQUIRED TO BE FAMILIAR WITH ALL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING BID OR STARTING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES THAT MAY EXIST BETWEEN THE CONTRACT DOCUMENTS AND REQUEST CLARIFICATION IN WRITING PRIOR TO THE BID.
7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION PARKING WITH THE OWNER, AND/OR FRANKLIN COUNTY.
8. CONTRACTOR SHALL VERIFY EXISTING UTILITY SERVICES ARE CAPPED OR REMOVED AND/OR ABANDONED AS REQUIRED PER THE SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCY(S) FOR BUILDINGS TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
9. PROVIDE PROTECTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES INDICATED TO REMAIN IN PLACE.
10. LANDSCAPING IRRIGATION SYSTEMS TO BE CAPPED AND REMOVED IN AREAS OF CONSTRUCTION WITH SERVICE LINES AND CAPS FLAGGED OR PROPERLY MARKED FOR FUTURE TIE-INS, IF APPLICABLE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL PER MODOT AND FRANKLIN COUNTY STANDARDS TO MINIMIZE TRAFFIC DISRUPTION WITHIN RIGHT-OF-WAY OF ADJACENT ROADS.
12. ALL DEBRIS RESULTING FROM THE DEMOLITION OF PAVEMENTS, CURBING, STRUCTURES, FOUNDATION AND FOOTINGS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS.
13. PUBLIC UTILITY FACILITIES SUCH AS MANHOLES, METER AND VALVE BOXES OF GAS, ELECTRIC AND TELEPHONE WILL BE ADJUSTED OR RELOCATED BY THE VARIOUS UTILITY COMPANIES.
14. DESIGN OF SHORING FOR UTILITY AND SEWER TRENCHES IS THE RESPONSIBILITY OF THE CONTRACTOR.
15. NO BURNING OF TREES, OVERGROWTH, DEBRIS, BRUSH, OR ANY MATERIAL ALLOWED ON SITE UNLESS APPROVED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES AND THE BOLES FIRE DEPARTMENT.
16. CONTRACTOR'S SURVEYOR REQUIRED TO ESTABLISH NEW SITE BENCHMARK IF EXISTING BENCHMARK IS DISTURBED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
17. ANY WORK THAT OCCURS WITHIN THE RIGHT-OF-WAY REQUIRES A PERMIT FROM MODOT OR FRANKLIN COUNTY. NO WORK SHALL PROCEED WITHIN THE RIGHT-OF-WAY UNTIL THE APPROPRIATE PERMITS ARE OBTAINED.
18. REMOVE AND REPLACE SIDEWALK OR CURB & GUTTER TO THE NEXT JOINT.
19. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION.

STATE OF MISSOURI
BRANDON ASHER HARP
NUMBER E-28650
PROFESSIONAL ENGINEER
BRANDON A. HARP, P.E. E-28650
PROFESSIONAL ENGINEER
CEDC LICENSE NO.: 2003004674

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Proposed:
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC MO 63069

No.	Date	Revision
1	04/07/2026	PERMIT DOCUMENTS
2	10/02/2026	PERMIT DOCUMENTS - REVISED
3	10/16/2026	BIDDING DOCUMENTS

EXISTING CONDITIONS & FACILITIES REMOVAL PLAN

Project No.
CEDC 2621

C3.0

Date
10/16/2026

NOTES:

1. FRANKLIN COUNTY HIGHWAY DEPARTMENT PERMIT REQUIRED FOR ALL WORK IN RIGHT-OF-WAY.
2. FRANKLIN COUNTY HIGHWAY DEPARTMENT FOR PERMIT FOR WORK IN MANCHESTER ROAD RIGHT OF WAY.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

N 54° 30' 34" E 475.93'

N 88° 20' 10" E 111.51'

S 01° 29' 30" W 68.51'

L=223.53'
R=1514.88'
D=8°27'16"
C=N 27° 38' 46" W
CL=223.33'

N 23° 25' 06" W 69.16'

N 64° 20' 30" E 41.90'

L=539.69'
R=490.07'
D=63°05'49"
C=S 32° 47' 36" W
CL=512.63'

℄ LITTLE TAVERN ROAD (30' WIDE)

MANCHESTER ROAD (60' WIDE)
ALSO KNOWN AS OLD ROUTE 66

EXISTING 1 STORY METAL BLDG./GARAGE NO ADDRESS POSTED
FF=811.00'

PROPOSED AMBULANCE HOUSE
FF=814.00
5,300± S.F.
12 PARKING SPACES

10

2

Ⓐ FL=799.50

Ⓑ SAN. C.O. TOP=807.50 FL=802.00 FL=804.50

SEPTIC TANK (DESIGN BUILD BY GENERAL CONTRACTOR)

SEPTIC FIELD TO BE DESIGN BUILD AND PERMITTED BY GENERAL CONTRACTOR

Ⓒ WYE FL=808.61 6" SCH. 40 PVC

Ⓓ SAN. C.O. TOP=813.24 FL=809.51

CONNECT D.S. (SEE ARCHITECTURAL PLANS FOR DOWNSPOUT BOOTS)

Ⓔ SAN. C.O. TOP=813.61 FL=809.82

GREASE INTERCEPTOR (SEE M.E.P. FOR DETAILS)

Ⓕ SAN. C.O. TOP=813.90 FL=810.06

Ⓖ SAN. C.O. TOP=813.90 FL=810.38

Ⓗ TAILSTAKE FL=810.50

Ⓘ SAN. C.O. TOP=813.90 FL=810.40

Ⓙ TAILSTAKE FL=810.50

6" PVC ST

6" SCH. 40 PVC SS

LIGHT STONE REVETMENT 2'Wx4'Lx2'D

E.O.P. FL=809.00

DOWNSPOUT SPLASH BLOCK (SEE DTAIL ON SHEET 'C6.0)

NO UTILITIES WITHIN THIS ISLAND

EOP 811.75

CONCRETE

GRAVEL

ASPHALT

84" VINYL FENCE

MANCHESTER ROAD

ELEV: 812.95 | 40.00' | ELEV: 812.60

R.O.W.

ELEV: 812.77 | ELEV: 812.85 | 812.70 | ELEV: 811.95 | ELEV: 811.79

R30.00' | R25.00'

8" CONCRETE IN R.O.W.

812.59

ENTRANCE WARPING
SCALE: 1" = 10'

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STATE OF MISSOURI

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PACIFIC MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

SITE AND GRADING PLAN

Project No.
CEDC 2621

C4.0

Date
10/16/2026

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

BID ITEMS

BASE BID ITEMS

- HEAVY DUTY CONCRETE PAVEMENT FOR DRIVES
- LIGHT DUTY CONCRETE PAVEMENT FOR PARKING STALLS
- MONOLITHIC CURB AND WALK
- 6" BARRIER CURB AT INTERIOR ISLAND AND BACK OF BUILDING
- NO CURB AT EDGE OF PAVEMENT
- AT GARAGE ENTRANCE AND EXIT, TAPER CURB DOWN TO 0" AT BUILDING
- AT ADA RAMP, END NO CURB

ALTERNATE #1 BID ITEMS

- HEAVY DUTY ASPHALT PAVEMENT FOR DRIVES
- LIGHT DUTY ASPHALT PAVEMENT FOR PARKING STALLS
- MONOLITHIC CURB AND WALK
- 6" VERTICAL CURB AT INTERIOR ISLAND AND BACK OF BUILDING
- FLUSH CURB AT EDGE OF PAVEMENT
- AT GARAGE ENTRANCE AND EXIT, TAPER CURB DOWN TO 0" AT BUILDING
- AT ADA RAMP, END FLUSH CURB

ALL DISTURBED AREAS SHALL RECEIVE SOD AND HYDROSEED

Once sod and hydroseed has been installed, GC will be responsible to water a half inch a day in the morning for three weeks or until the hydroseed germinates and the sob begins to take root. During summer or warmer months, the sod/hydroseed should be watered a second time in the afternoon as well. This would not be the full half inch, but enough to make moist again.

NOTES:

1. FRANKLIN COUNTY HIGHWAY DEPARTMENT PERMIT REQUIRED FOR ALL WORK IN RIGHT-OF-WAY.
2. FRANKLIN COUNTY HIGHWAY DEPARTMENT FOR PERMIT FOR WORK IN MANCHESTER ROAD RIGHT OF WAY.

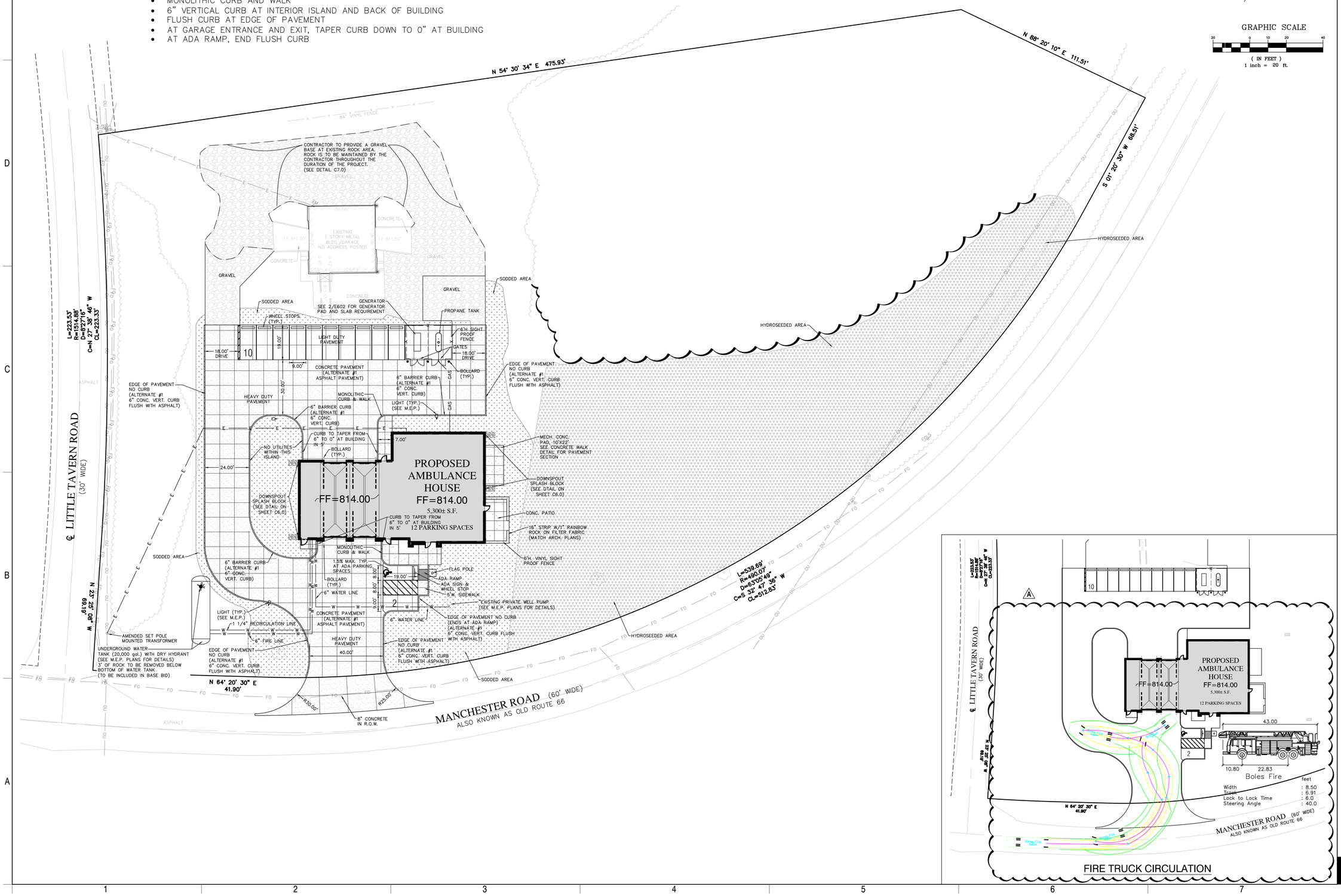
LEGEND

- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- GRAVEL
- SODDED AREA
- HYDROSEEDED AREA

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



FIRE TRUCK CIRCULATION

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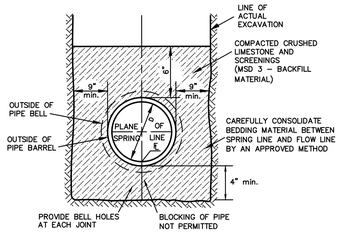
No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/15/2026	PLAN REVIEW CORRECTIONS
A	10/16/2026	BIDDING DOCUMENTS

SITE GEOMETRY AND UTILITY PLAN

Project No.
CEDC 2621

C5.0

Date
10/16/2026

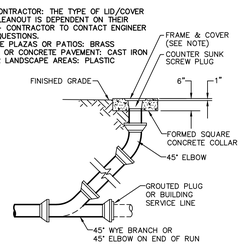


PIPE BEDDING CLASS "C"

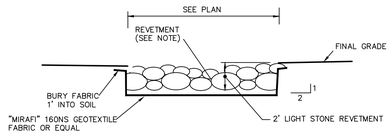
(FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE)

PIPE BEDDING DETAILS

NOTE TO CONTRACTOR: THE TYPE OF LID/COVER FOR THE CLEANOUT IS DEPENDENT ON THEIR LOCATION – CONTRACTOR TO CONTACT ENGINEER WITH ANY QUESTIONS.
- CONCRETE PLAZAS OR PATIOS: BRASS
- ASPHALT OR CONCRETE PAVEMENT: CAST IRON
- LAWN OR LANDSCAPE AREAS: PLASTIC



SEWER CLEANOUT DETAIL

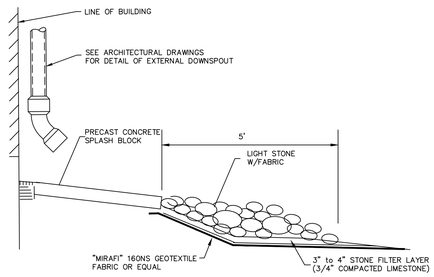


NOTES:

1. *STONE FOR LIGHT STONE REVETMENT SHALL BE AT LEAST 6 INCH TO 8 INCH DIAMETER.*
2. *TOP OF REVETMENT TO BE PLACED TO MATCH PROPOSED GRADE AND NOT PLACED ON TOP OF PROPOSED GRADE.*

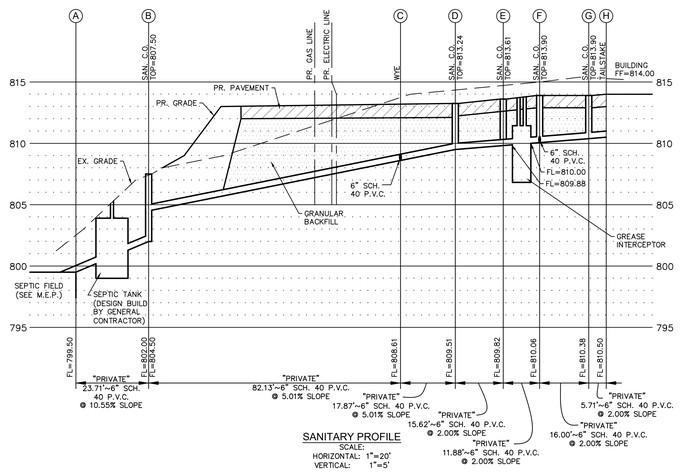
LIGHT STONE REVETMENT DETAIL

(FOR LOCATIONS SEE PLANS)



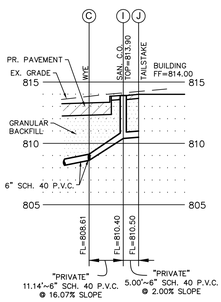
ROCK BLANKET AT SPLASH BLOCK DETAIL

NOT TO SCALE



SANITARY PROFILE

SCALE:
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'



SANITARY PROFILE

SCALE:
HORIZONTAL: 1"=20'
VERTICAL: 1"=5'

STATE OF MISSOURI
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No.	Date	Revision
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	10/16/2026	BIDDING DOCUMENTS

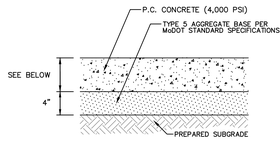
SEWER PROFILES & DETAILS

Project No.
CEDC 2621

C6.0

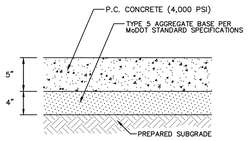
Date
10/16/2026

NOTE:
THE PAVEMENT SECTION SHOWN SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE GEOTECHNICAL ENGINEER, PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE PAVEMENT SECTION WITH THE GEOTECHNICAL ENGINEER.

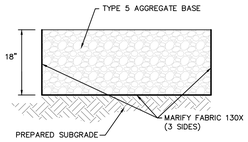


6" – DRIVE LANES
8" – FRANKLIN COUNTY R.O.W. AND TRASH PAD

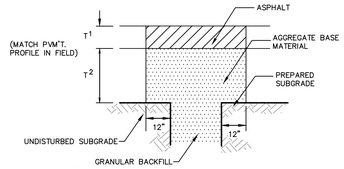
(BASE BID)
CONCRETE PAVEMENT
HEAVY DUTY
DETAIL
(N.T.S.)



(BASE BID)
CONCRETE PAVEMENT
LIGHT DUTY
DETAIL
(N.T.S.)



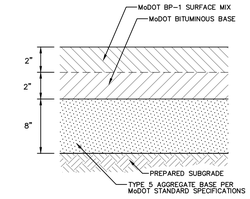
GRAVEL



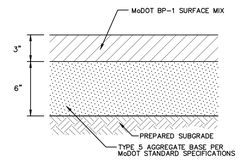
NOTE:
SAW CUT PERIMETER OF PATCH AND EXCAVATE EXISTING PAVEMENT SECTION TO SOUND BASE. EXCAVATE RECTANGULAR OR TRAPEZOIDAL PATCHES, EXTENDING 12 INCHES INTO ADJACENT SOUND PAVEMENT, UNLESS OTHERWISE INDICATED. CUT EXCAVATION FACES VERTICALLY. REMOVE EXCAVATED MATERIAL. RECOMPACT EXISTING UNBOUND AGGREGATE BASE COURSE TO FORM NEW SUBGRADE.

NEW PAVEMENT SHALL MATCH THE EXISTING PAVEMENT TYPE AND THICKNESS

PATCHING ASPHALT
TRENCH/PAVEMENT
(N.T.S.)

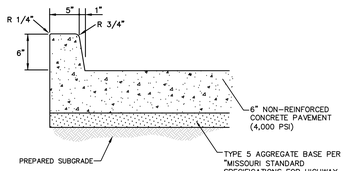


(ALTERNATE #1)
ASPHALT PAVEMENT
HEAVY DUTY
DETAIL
(N.T.S.)

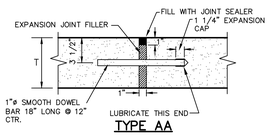


(ALTERNATE #1)
ASPHALT PAVEMENT
LIGHT DUTY
DETAIL
(N.T.S.)

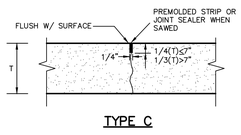
NOTES:
1. REFER TO SITE PLAN FOR AREAS OF PAVEMENT TYPE AND THICKNESS.
2. EXPANSION MATERIAL SHALL BE INSTALLED EVERY 20' IN CURB. EXPANSION MATERIAL SHALL BE OF A TYPE EQUAL TO THE ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM C 175 FOR EXTERIOR WORK. EXPANSION MATERIAL SHALL EXTEND FULL DEPTH OF CURB AND GUTTER, LESS 1/4" AT TOP OF CONCRETE.
3. CURBS TO BE PROVIDED WITH SAW CUT OR TOOLED JOINT AT 10' INTERVALS.
4. JOINTS AND SAW CUTS TO BE SEALED WITH LIMESTONE COLORED SEALANT.
5. TYPE 5 AGGREGATE REFERS TO MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS



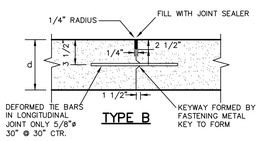
(BASE BID)
BARRIER CURBING DETAIL



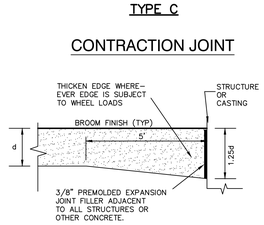
EXPANSION JOINT



CONTRACTION JOINT



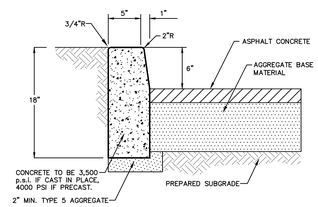
CONSTRUCTION JOINT



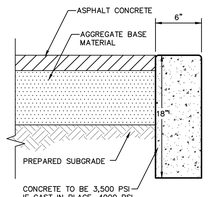
ISOLATION JOINT

CONCRETE INSTALLATION NOTES:

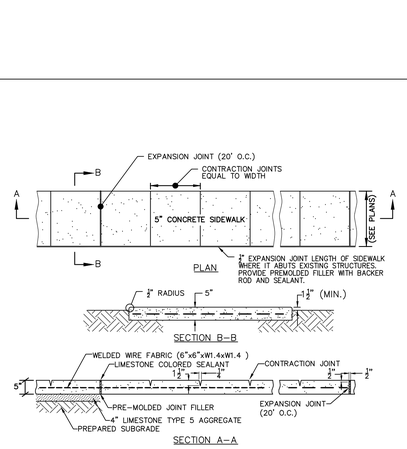
1. CONSTRUCTION JOINTS ARE REQUIRED BETWEEN ALL POURS SEPARATED BY MORE THAN 30 MINUTES TIME.
2. PLACE LONGITUDINAL CONSTRUCTION JOINT AT CENTERLINE OF ROADWAYS WHEN PAVEMENT IS WIDER THAN 12'.
3. MAXIMUM OF EIGHT FEET (8') SPACING BETWEEN CONTROL JOINTS FOR 5" THICK PAVEMENT; FOURTEEN FEET (14') FOR 7" THICK PAVEMENT; FIFTEEN FEET (15') FOR 8" THICK PAVEMENT.
4. FILL JOINTS TO WITHIN 1/8" OF SURFACE WITH JOINT SEALER.
5. JOINTS TO BE SEALED WITH LIMESTONE COLORED SEALANT.
6. WHEN A JOINT FALLS WITHIN 5' OF A MANHOLE, LIGHT POLE BASE, OR OTHER STRUCTURE, SHORTEN ONE OR MORE PANELS ON EITHER SIDE OF STRUCTURE TO ALLOW CONTROL JOINTS TO FALL AT STRUCTURE.



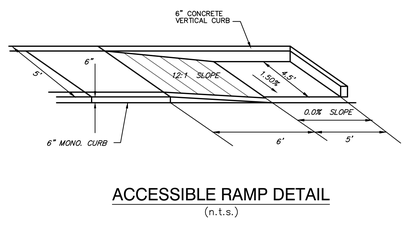
(ALTERNATE #1)
CONCRETE VERTICAL CURB
DETAIL NOT FOR USE IN RIGHT-OF-WAY



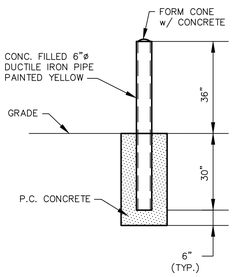
(ALTERNATE #1)
FLUSH CURB
(NOT FOR USE IN RIGHT-OF-WAY)



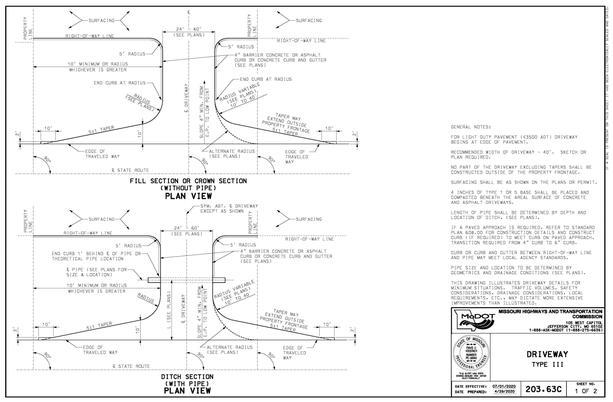
DETAIL OF CONCRETE SIDEWALK



ACCESSIBLE RAMP DETAIL
(n.t.s.)



BOLLARD DETAIL
N.T.S.



GENERAL NOTES:

FOR LIGHT DUTY PAVEMENT, I-43500 ADT) DRIVEWAY BEGINS AT EDGE OF PAVEMENT).

RECOMMENDED WIDTH OF DRIVEWAY = 40'. SKETCH OR PLAN REQUIRED.

NO PART OF THE DRIVEWAY EXCLUDING TAPERS SHALL BE CONSTRUCTED OUTSIDE OF THE PROPERTY FRONTAGE.

SURFACING SHALL BE AS SHOWN ON THE PLANS OR PERMIT.

4 INCHES OF TYPE 1 OR 5 BASE SHALL BE PLACED AND COMPACTED UNDER ALL ANGLE SURFACE OF CONCRETE AND ASPHALT DRIVEWAYS.

LENGTH OF PIPE SHALL BE DETERMINED BY DEPTH AND LOCATION OF DITCH. (SEE PLANS).

IF A PAVED APPROACH IS REQUIRED, REFER TO STANDARD PLAN 609.00 FOR CONSTRUCTION DETAILS AND CONSTRUCT TRANSITION FROM 4" CURB TO 6" CURB. CONSTRUCT APPROACH-TRANSITION REQUIRED FROM 4" CURB TO 6" CURB.

CURB ON CURB AND GUTTER BETWEEN RIGHT-OF-WAY LINE AND PIPE MAY MEET LOCAL AGENCY STANDARDS.

PIPE SIZE AND LOCATION TO BE DETERMINED BY GEOMETRICS AND DRAINAGE CONDITIONS (SEE PLANS).

THIS DRAWING ILLUSTRATES DRIVEWAY DETAILS FOR MINIMUM SITUATIONS. TRAFFIC VOLUMES, SAFETY CONSIDERATIONS, OR OTHER SPECIAL CONDITIONS MAY REQUIRE IMPROVEMENTS TO EXCEED MINIMUM REQUIREMENTS. ETC., MAY DICTATE WORK EXTENDING IMPROVEMENTS THAN ILLUSTRATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DRIVEWAY
TYPE III

DATE EFFECTIVE: 07/01/2020
DATE REVISED: 4/28/2020

203.63C

SHEET NO. 1 OF 2

616.8-3 (TA-3) Shoulder Work on Two-Lane Highways with Edgelines - MT

SPEED	SIGN SPACING (ft.) Undivided (S)	SIGN SPACING (ft.) Divided (S)	TAPER LENGTH (ft.) Shoulder[1] (T1)	TAPER LENGTH (ft.) Lane[1] (T2)	OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.) Tapers	CHANNELIZER SPACING (ft.) Buffer/ Work Area s
0-35	200	-	70	-	250	35	50
40-45	350	-	150	-	360	40	100
50-55	500	-	185	-	495	50	100
60-70	1000	-	235	-	730	60	100

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2 Lane taper length based on 12 ft. (standard lane width) offset.

ROADWAY TYPE	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' Portable 7' Post	1 Mi.
RURAL UNDIVIDED	1' Portable 9' Post	3 Mi.

Channelizer · Sign · Truck or Trailer Mounted Arrow Panel · Protective Vehicle · Truck Mounted Attenuator (TMA) · Work Space

In addition to shoulder work, this typical application is applicable to work beyond shoulder where vehicles and equipment are parked on the shoulder.

A protective vehicle **shall** be used while work is in progress. The protective vehicle **should** be equipped with a TMA and positioned at least 150 ft. in advance of the work space.

If encroachment onto driving surface occurs and there is not 10 ft. of driving surface available for the lane of traffic, that traffic lane **shall** be closed. Refer to appropriate lane closure typical applications.

If an arrow panel is used for an operation on the shoulder, the caution mode **shall** be displayed.

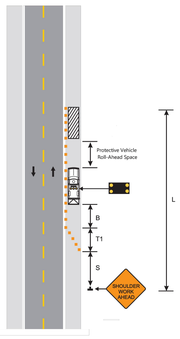
For short duration or mobile operations, signs, channelization devices, and protective vehicles **may** be reduced or eliminated if a work vehicle with activated rotating lights or strobe lights is used. However, if limited sight distance exists, a protective vehicle **should** be used. This protective vehicle **should** be equipped with a TMA and truck mounted flashing arrow panel and positioned at least 150 ft. in advance of the work space or work vehicle, as applicable. If a protective vehicle is used, a vehicle mounted sign **shall** be mounted at a recommended height of 48 in. above the road surface.

For work beyond shoulder, where vehicles and equipment are parked on the shoulder, the protective vehicle **may** be eliminated if a work vehicle with activated rotating lights or strobe lights is used.

Vehicle hazard warning signals **shall** not be used instead of the vehicle's rotating lights or strobe lights.

Additional warning signs **shall** be erected at each intersection with another state highway within the work zone. Upon the discretion of the supervisor, additional warning signs **may** be erected at other intersections within the work zone.

Other appropriate signs **may** be used in lieu of SHOULDER WORK AHEAD sign.



TA-3 11/13

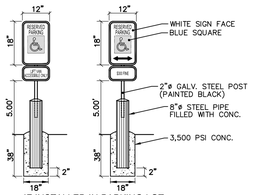
PAINTED STRIPE
SIGN
PAINTED STRIPE
20.0'
2' - 5"
10.0' 10.0' 10.0'
(SEE PLANS)
2% MAX SLOPE WITHIN ADA STALLS AND ACCESS AISLES

NOTE:
ADA GRAPHIC SHALL BE WHITE OR PER LOCAL CODE

PAVEMENT MARKING

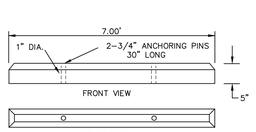
NOTE:
ADA STRIPING & GRAPHIC SHALL BE WHITE OR PER LOCAL CODE

TYPICAL PARKING STALLS

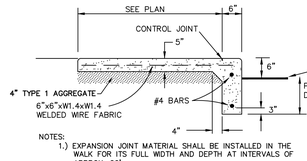


ACCESSIBLE PARKING SIGN

- STANDARD SIGN FACE, STANDARD HIGHWAY DEPARTMENT OR CITY STREET DEPARTMENT GAUGE
- LETTERS AND BORDERS ARE GREEN
- HANDICAP LOGO SQUARE IS BLUE
- SIGN FACE IS WHITE
- SET BOTTOM OF "FINE" SIGN 60" A.F.G.



CONCRETE WHEELSTOP
N.T.S.



NOTES:
1.) EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN THE WALK FOR ITS FULL WIDTH AND DEPTH AT INTERVALS OF APPROX. 20'.
2.) CONTROL JOINTS SHALL BE INSTALLED AT INTERVALS OF 1.0 TIMES ITS WIDTH.
3.) JOINTS TO BE SEALED WITH LIMESTONE COLORED SEALANT.

MONOLITHIC SIDEWALK/CURB DETAIL
(SIDEWALK AT BUILDING)

BRANDON ASHER HARP NUMBER E-28650 PROFESSIONAL ENGINEER
BRANDON A. HARP, P.E. E–28650
PROFESSIONAL ENGINEER
CEDC LICENSE NO.: 2003004674

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CEDC CIVIL ENGINEERING DESIGN CONSULTANTS
10820 Sunset Office Drive Suite 200 Saint Louis, Missouri 63127 314.729.1400 Fax 314.729.1404 www.cedc.net

Proposed:
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC MO 63069

No.	Date	Revision
1	04/15/2026	PERMIT DOCUMENTS
2	10/02/2026	PERMIT DOCUMENTS - REVISED
3	10/16/2026	BIDDING DOCUMENTS

SITE DETAILS

Project No.
CEDC 2621

C7.0

Date
10/16/2026

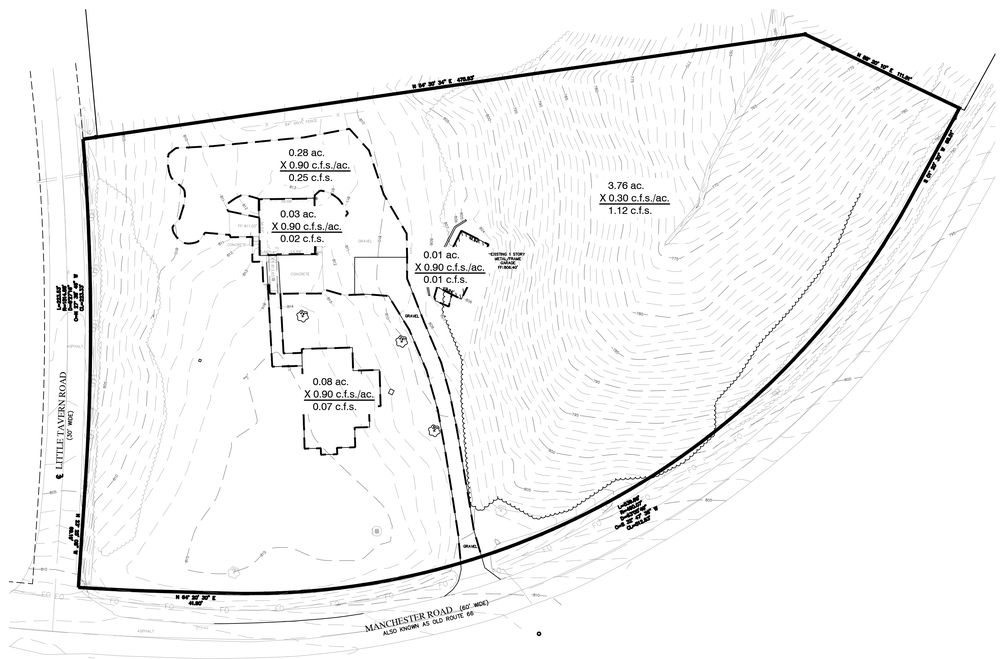
GRAPHIC SCALE

40 0 20 40 80

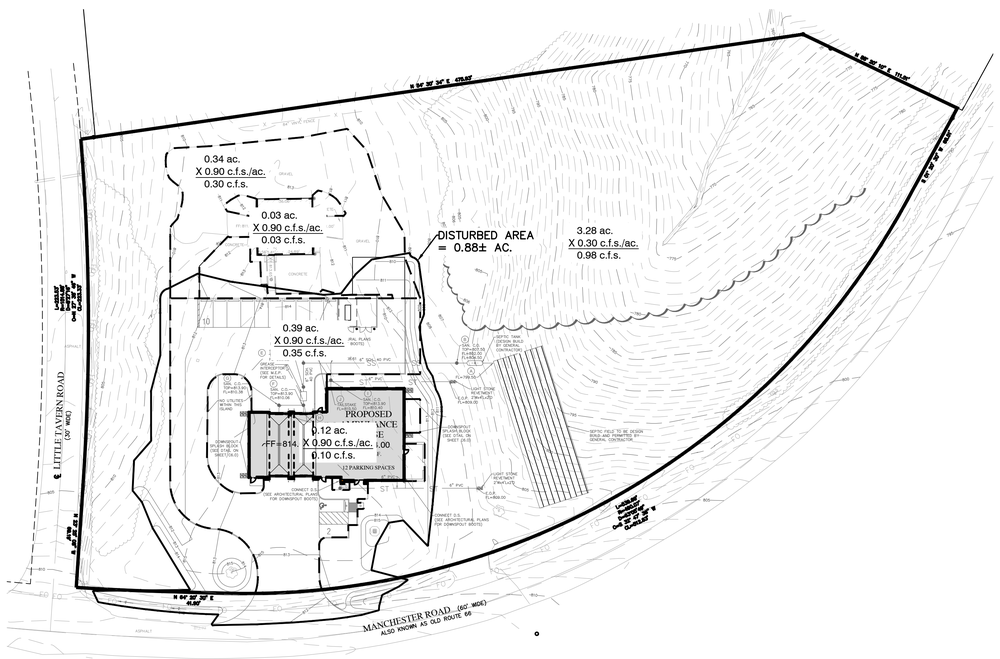
(IN FEET)
1 inch = 40 ft.

Differential Runoff Calculations

T=20 MIN.									
EXISTING CONDITIONS									
Frequency	A	B	m	PERVIOUS (C)	IMPERVIOUS (C)	INTESITY	AREA PERVIOUS	AREA IMPERVIOUS	Q
2.00	56.91	11.80	0.84	0.30	0.90	3.11	3.76	0.40	4.63
25.00	85.91	13.49	0.80	0.30	0.90	5.18	3.76	0.40	7.70
100.00	74.36	11.37	0.72	0.30	0.90	6.22	3.76	0.40	9.26
PROPOSED CONDITIONS									
Frequency	A	B	m	PERVIOUS	IMPERVIOUS	INTESITY	AREA PERVIOUS	AREA IMPERVIOUS	Q
2.00	56.91	11.80	0.84	0.30	0.90	3.11	3.28	0.88	5.53
25.00	85.91	13.49	0.80	0.30	0.90	5.18	3.28	0.88	9.20
100.00	74.36	11.37	0.72	0.30	0.90	6.22	3.28	0.88	11.05
Differntial Runoff									
Frequency	C.F.S.								
2.00	0.90								
25.00	1.49								
100.00	1.79								



EXISTING DRAINAGE AREA



PROPOSED DRAINAGE AREA

DISTURBED AREA = 0.88 AC

BRANDON ASHER HARP
NUMBER E-28650
PROFESSIONAL ENGINEER
STATE OF MISSOURI

BRANDON A. HARP, P.E. E-28650
PROFESSIONAL ENGINEER
CEDC LICENSE NO.: 2003004674

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www.cedc.net

Proposed:
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC MO 63069

No.	Date	Revision
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	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

DRAINAGE AREA PLANS

Project No.
CEDC 2621

C8.0

Date
10/16/2026

EROSION CONTROL LEGEND

SYMBOL	B.M.P.
SF	SILT FENCE
CE	CONSTRUCTION ENTRANCE
CP	CONSTRUCTION PARKING

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

N 54° 30' 34" E 475.93'

N 88° 20' 10" E 111.51'

S 01° 20' 30" W 68.51'

L=539.69'
R=490.07'
D=63°05'49"
C=S 32° 47' 36" W
CL=512.83'

L=223.53'
R=1514.88'
D=8°27'16"
C=N 27° 38' 46" W
CL=223.33'

N 50° 25' 08" W 69.19'

N 64° 20' 30" E 41.90'

℄ LITTLE TAVERN ROAD (30' WIDE)

MANCHESTER ROAD (60' WIDE)
ALSO KNOWN AS OLD ROUTE 66

PROPOSED AMBULANCE HOUSE
FF=814.00
5,300± S.F.
12 PARKING SPACES

FF=814.00

EXISTING 1 STORY METAL BLDG./GARAGE NO ADDRESS POSTED
FF=811.00

CONSTRUCTION PARKING

WASHDOWN STATION

SEPTIC TANK (DESIGN BUILD BY GENERAL CONTRACTOR)

SEPTIC FIELD TO BE DESIGN BUILD AND PERMITTED BY GENERAL CONTRACTOR

LIGHT STONE REVETMENT 2'Wx4'Lx2'D

E.O.P. FL=809.00

84" VINYL FENCE

GRAVEL

CONCRETE

ASPHALT

SAN. C.O. TOP=813.24 FL=809.51

SAN. C.O. TOP=813.61 FL=809.82

GREASE INTERCEPTOR (SEE M.E.P. FOR DETAILS)

SAN. C.O. TOP=813.90 FL=810.38

SAN. C.O. TOP=813.90 FL=810.06

SAN. C.O. TOP=813.90 FL=810.40

TAILSTAKE FL=810.50

WYE FL=808.61 6" SCH. 40 PVC

4" SCH. 40 PVC

6" PVC

SAN. C.O. TOP=807.50 FL=802.00 FL=804.50

FL=799.50

CONNECT D.S. (SEE ARCHITECTURAL PLANS FOR DOWNSPOUT BOOTS)

BRANDON ASHER HARP
NUMBER E-28650
PROFESSIONAL ENGINEER
STATE OF MISSOURI

BRANDON A. HARP, P.E. E-28650
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CEDC LICENSE NO.: 2003004674

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MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC MO 63069

No.	Date	Revision
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	10/16/2026	BIDDING DOCUMENTS

STORMWATER POLLUTION PREVENTION PLAN

Project No.
CEDC 2621

C9.0

Date
10/16/2026

GENERAL NOTES

1.) SITE OWNER: MERAMEC AMBULANCE DISTRICT

EMERGENCY CONTACT T.B.D.

2.) SITE ADDRESS: 385 OLD MANCHESTER RD., PACIFIC, MO
NATURE OF LAND DISTURBANCE AT SITE CONSISTS OF NEW BUILDING AND PARKING LOT, VEHICLE AND PEDESTRIAN CIRCULATION AREAS, AND STORM WATER MANAGEMENT IMPROVEMENTS.

3.) ALL FILL OR BACKFILL OPERATIONS SHALL BE EXECUTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUITABILITY AND ASCERTAIN COMPLIANCE WITH SPECIFICATION REQUIREMENTS OF ALL MATERIALS TO BE USED AS FILLS.

4.) ACCORDING TO THE UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY, THE FOLLOWING SOILS ARE LOCATED ON-SITE:

50008 KESWICK SILT LOAM, 5 TO 9 PERCENT SLOPES, ERODED (HYDROLOGIC SOIL GROUP D)

60126 HATTON SILT LOAM, 2 TO 5 PERCENT SLOPES (HYDROLOGIC SOIL GROUP D)

5.) TOTAL LAND ESTIMATED TO BE DISTURBED = 0.88 AC.±

6.) EARTHWORK QUANTITIES
BULK CUT 1815 +/- CUBIC YARD
BULK FILL 513 +/- CUBIC YARD (INCLUDES 15 PERCENT FOR SHRINKAGE)

(SEE EARTHWORK NOTES ON SHEET C2).

7.) THE LAND DISTURBANCE PERMIT HOLDER SHALL PROVIDE A QUALIFIED PROFESSIONAL (SPECIAL INSPECTOR) TO CONDUCT REGULAR INSPECTIONS OF LAND DISTURBANCE SITES, INCLUDING ALL EROSION AND SEDIMENT AND OTHER POLLUTANT CONTROL MEASURES, OUTFALL, AND OFF-SITE RECEIVING WATERS IN ACCORDANCE WITH THE INSPECTION SCHEDULE OUTLINED IN THE APPROVED SWPPP.

REGULAR INSPECTIONS MUST BE CONDUCTED AND REPORTED AT LEAST ONCE PER WEEK. IN ADDITION, SPECIAL INSPECTIONS MUST BE CONDUCTED AND REPORTED WITHIN 48 HOURS OF A RAINFALL EVENT THAT CAUSES STORM WATER RUNOFF ON SITE, AND AS RELATED TO OTHER SPECIAL LAND DISTURBANCE CONCERNS. **NOTE: GENERAL CONTRACTOR SHALL NOTIFY SPECIAL INSPECTOR ON THE SAME DAY (DURING BUSINESS HOURS) WHEN STORMWATER RUNOFF OCCURS ON CONSTRUCTION SITE. IF STORMWATER RUNOFF OCCURS AFTER BUSINESS HOURS, THE GENERAL CONTRACTOR SHALL NOTIFY THE INSPECTOR ON THE NEXT BUSINESS DAY.**

ALL INSPECTIONS SHALL BE DOCUMENTED IN WRITTEN FORM ON WEEKLY REPORTS WITH COPIES AVAILABLE TO BE SUBMITTED TO THE DEPARTMENT(S) OF PUBLIC WORKS UPON REQUEST. PERMIT-HOLDER INSPECTION REPORTS MUST INCLUDE THE FOLLOWING MINIMUM INFORMATION:

1. INSPECTOR'S NAME AND SIGNATURE
2. DATE OF INSPECTION
3. OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE BMP'S
4. ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES
5. A LISTING OF AREAS WHERE LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED

THE PERMIT HOLDER SHALL NOTIFY THE SITE CONTRACTOR(S) RESPONSIBLE FOR ANY DEFICIENCIES IDENTIFIED SO THAT DEFICIENCIES CAN BE CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE WEEKLY INSPECTION REPORT. IF WEATHER CONDITIONS MAKE IT IMPOSSIBLE TO CORRECT THE PROBLEM WITHIN SEVEN CALENDAR DAYS, A DETAILED REPORT OF THE PROBLEM (INCLUDING PICTURES) SHALL BE FILED WITH THE REGULAR INSPECTION REPORTS.

THE SPECIAL INSPECTOR SHOULD HAVE A COPY OF THE CURRENT SWPPP WITH DRAWINGS AND SPECIFICATIONS FOR ALL PRACTICES WHILE ON SITE AND DURING ALL INSPECTIONS. INSPECTIONS SHALL INCLUDE EXAMINING ALL EROSION AND SEDIMENT AND OTHER POLLUTANT CONTROL MEASURES, OUTFALLS, AND OFF-SITE RECEIVING WATERS IN ACCORDANCE WITH THE INSPECTION SCHEDULE OUTLINED IN THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP). REMEMBER TO INSPECT ALL ASPECTS OF COMPLIANCE WITH THE CITY, COUNTY AND STATE LAND DISTURBANCE PERMIT TO WHICH THE SITE MIGHT BE SUBJECT TO. THIS WILL INCLUDE ALL PAPERWORK, UPDATES AND MAINTENANCE OF THE SWPPP OR EROSION AND SEDIMENT CONTROL DOCUMENTS, PUBLIC POSTING SIGNAGE AND BMP's. DO NOT FORGET THE GOOD HOUSEKEEPING PRACTICES REQUIRED FOR TRASH DUMPSTERS, DESIGNATED CONCRETE WASHOUT AREAS, PORTABLE TOILETS, PETROLEUM AND OTHER CHEMICAL STORAGE AREAS, ETC. WHENEVER AN INSPECTION NOTES A DEFICIENCY, VERIFY DURING THE NEXT INSPECTION THAT CORRECTIONS WERE MADE AND NOTE WHEN EACH PREVIOUSLY NOTED DEFICIENCY WAS REPAIRED.

INSPECTIONS MUST BE SCHEDULED AT LEAST ONCE PER WEEK. WHEN RAINFALL CAUSES STORM WATER RUNOFF TO LEAVE THE SITE, THE BMP MUST BE INSPECTED WITHIN 48 HOURS AFTER THE RAIN EVENT HAS CEASED DURING A NORMAL WORKDAY AND WITHIN 72 HOURS ON THE NEXT BUSINESS DAY IF THE RAIN EVENT CEASES DURING A NON-WORKDAY SUCH AS ON WEEKENDS AND HOLIDAYS. THE TOTAL RAINFALL MEASURED FOR THAT DAY MUST BE RECORDED ON THE INSPECTION REPORT. A PROPERLY MAINTAINED RAIN GAUGE MUST BE KEPT ON SITE OR THE STORM EVENT INFORMATION MUST BE OBTAINED FROM A WEATHER STATION THAT IS REPRESENTATIVE OF THE SITE LOCATION. THE PURPOSE OF SUCH INSPECTIONS WILL BE TO ENSURE PROPER INSTALLATION, OPERATION AND MAINTENANCE OF BEST MANAGEMENT PRACTICES (BMP's) AND TO DETERMINE THE OVERALL EFFECTIVENESS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND THE NEED FOR ADDITIONAL CONTROL MEASURES. ALL INSPECTIONS SHALL BE DOCUMENTED IN WRITTEN FORM ON WEEKLY AND AFTER-RAIN REPORTS WITH COPIES AVAILABLE FOR SUBMISSION WEEKLY TO THE DEPARTMENT OF PUBLIC WORKS UPON REQUEST. (ALL INSPECTION REPORTS SHALL BE PREPARED ON THE FORMS PRESCRIBED BY THE FRANKLIN COUNTY).

8.) THE PURPOSE OF THE SPECIAL INSPECTOR IS TO ENSURE PROPER INSTALLATION, OPERATION NAND MAINTENANCE OF BMP'S AND TO DETERMINE THE OVERALL EFFECTIVENESS OF THE SWPPP AS WELL AS THE NEED FOR ADDITIONAL CONTROL MEASURES TO THE FRANKLIN COUNTY. THE MAJOR LAND DISTURBANCE (MLD) PERMIT HOLDER AND HIS SPECIAL INSPECTOR SHALL ALSO BE RESPONSIBLE TO:

a. NOTIFY THE SITE CONTRACTOR(S) RESPONSIBLE FOR ANY DEFICIENCIES IDENTIFIED SO THAT DEFICIENCIES CAN BE CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE WEEKLY INSPECTION REPORT. SUCH WEEKLY INSPECTION REPORTS SHALL IDENTIFY DEFICIENCIES AS WELL AS PROGRESS IN CORRECTING DEFICIENCIES.
b. NOTIFY ALL CONTRACTORS AND OTHER ENTITIES (INCLUDING UTILITY CREWS, COUNTY EMPLOYEES, OR THEIR AGENTS) THAT WILL PERFORM WORK AT THE SITE, OF THE EXISTENCE OF THE SWPPP AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN WHILE ON SITE TO MINIMIZE THE POTENTIAL FOR EROSION AND THE POTENTIAL FOR DAMAGING ANY BMP'S.
c. DETERMINE THE NEED FOR AND ESTABLISH TRAINING PROGRAMS TO ENSURE THAT ALL SITE WORKERS HAVE BEEN TRAINED, AT A MINIMUM, IN EROSION CONTROL, MATERIAL HANDLING AND STORAGE, AND HOUSEKEEPING.
d. PROVIDE COPIES OF THE SWPPP TO ALL PARTIES WHO ARE RESPONSIBLE FOR INSTALLATION, OPERATION OR MAINTENANCE OF ANY BMP'S.
e. MAINTAIN A CURRENT COPY OF THE SWPPP AND PERMIT INSPECTION CARD ON THE SITE AT ALL TIMES AND MADE AVAILABLE UPON REQUEST. IF CONDITIONS ARE NOT FAVORABLE TO MAINTAIN A CURRENT COPY OF THE SWPPP ON SITE, INSTALL A SIGN AT THE ENTRANCE TO THE SITE, PLAINLY VISIBLE TO THE TRAVELING PUBLIC LISTING INFORMATION PERTINENT TO THE SWPPP'S LOCATION AND THE 24 HOURS A DAY / 7 DAYS PER WEEK PHONE NUMBER OF THE PERSON IN CHARGE OF THE SWPPP.
f. TO OBTAIN INSPECTIONS, A PERMIT HOLDER SHALL NOTIFY THE DEPARTMENT(S) OF PUBLIC WORKS OR HIGHWAYS AND TRAFFIC AS APPLICABLE, AT LEAST TWO WORKING DAYS BEFORE THE FOLLOWING:
a) START OF CONSTRUCTION b) INSTALLATION OF SEDIMENT AND EROSION MEASURES
c) COMPLETION OF SITE CLEARING d) COMPLETION OF ROUGH GRADING e) COMPLETION OF FINAL GRADING f) CLOSE OF THE CONSTRUCTION SEASON g) COMPLETION OF FINAL LANDSCAPING

9.) PRIOR TO ANY MAJOR LAND DISTURBANCE ACTIVITY, A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES WILL BE REQUIRED.

10.) CONSTRUCTION SCHEDULE (TENTATIVE) – (STARTING DATE _____)
Dec Jan Feb Mar Apr May Jun Jul Aug Sep Nov Oct

SEDIM./EROSION CONTROL INSTALL
SITE GRADING
SEDIMENT/EROSION CONTROL MAINT.
BUILDING CONSTRUCTION
SEWER CONSTRUCTION
PAVING/CURBS/SEWERS etc.
PERMANENT VEGETATION
REMOVAL OF TEMP EROSION MEASURES

11.) **DESCRIPTION OF B.M.P.'s (INTERIM & PERMANENT STABILIZATION PRACTICES/SCHEDULE)**
a. CONTRACTOR SHALL ESTABLISH PERIMETER SILTATION CONTROL PRIOR TO ANY CONSTRUCTION ACTIVITIES. AREAS REQUIRING MINOR CLEARING &/OR GRADING PRIOR TO INSTALLATION OF SILTATION CONTROL SHALL BE COMPLETED IN A TIMELY MANNER AND SILTATION CONTROL ESTABLISHED IMMEDIATELY FOLLOWING
b. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE THE ACCESS AREAS INTERSECT WITH PUBLIC ACCESS WAYS. DURING MUDDY CONDITIONS, DRIVERS OF VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE ROADWAY. WHERE SEDIMENT IS TRANSPORTED ONTO PUBLIC ACCESS WAYS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROAD BY SHOVELING OR SWEEPING. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
c. UPON COMMENCEMENT OF INITIAL CLEARING AND GRUBBING OPERATIONS, AS WELL AS FUTURE GRADING OPERATIONS, TOPSOIL MUST BE STRIPPED FROM GRADED AREAS AND STOCKPILED FOR USE IN FINAL GRADING AND/OR EXCESS REMOVAL. THE STOCKPILES WILL BE KEPT ON SITE BUT MUST STAY CLEAR OF ALL CONSTRUCTION ACTIVITY. THE STOCKPILE WILL BE STABILIZED WITH TEMPORARY VEGETATION TO PREVENT SOIL LOSS AND SEDIMENT TRANSPORT FROM THE STOCKPILE ITSELF UNTIL NEEDED.
d. TEMPORARY ROADS SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHALL NOT EXCEED 10 PERCENT SLOPE.
e. CONTRACTOR SHALL CLEAR AND GRUB THOSE AREAS OF THE SITE SCHEDULED FOR CONSTRUCTION. AREAS NOT SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL NOT BE CLEARED OF ESTABLISHED VEGETATION UNTIL REQUIRED. REMAINDER OF SITE SHALL BE GRADED, AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SILTATION CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
f. STORM DRAINS SHALL BE INSTALLED AS EARLY AS POSSIBLE, PROVIDED THE INSTALLATION DOES NOT CONFLICT WITH OTHER CONSTRUCTION ACTIVITIES. SILT FENCE SHALL BE PLACED AT EACH INLET IMMEDIATELY, UPON COMPLETION OF CONSTRUCTION OF EACH INLET. INLETS MAY BE UTILIZED FOR STORMWATER CONTROL DURING CONSTRUCTION WITH THE SILT FENCE AND EROSION CONTROL MEASURES IN PLACE.
g. ALL PROPOSED TURF AREAS, ONCE CONSTRUCTED TO FINAL GRADE SHALL BE SEEDED/ SODDED WITHIN 5 DAYS AFTER FINAL GRADING OF THE SITE WHERE SHOWN ON THE PLAN. SHOULD WEATHER CAUSE DELAYS IN EARTHWORK OPERATIONS, ADDITIONAL SILTATION CONTROL MEASURES MAY BE REQUIRED.
h. TEMPORARY STABILIZATION SHALL TAKE PLACE WHERE SOIL DISTURBING ACTIVITIES WILL CEASE ON ANY PORTION OF THE SITE AND ARE NOT PLANNED TO RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. TEMPORARY STABILIZATION MUST BE INITIATED IMMEDIATELY UPON KNOWING THE DURATION IS MORE THAN 14 DAYS. TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS. IF SLOPES IN AN AREA ARE GREATER THAN 3:1 (3 FT. HORIZONTAL TO 1 FT. VERTICAL) OR IF THE SLOPE IS GREATER THAN 3% AND GREATER THAN 150 FEET IN LENGTH, THEN THE PERMITTEE MUST ESTABLISH TEMPORARY STABILIZATION WITHIN 7 DAYS OF CEASING OPERATION ON THAT PART OF THE SITE. FINAL STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY AND COMPLETED WITHIN 7 CALENDAR DAYS WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE. ALLOWANCES TO THE 7 DAY COMPLETION PERIOD FOR TEMPORARY AND FINAL STABILIZATION MAY BE MADE DUE TO WEATHER OR EQUIPMENT MALFUNCTIONS. THE USE OF ALLOWANCES SHALL BE DOCUMENTED.
i. ANY DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING PER SPECIFICATIONS WITHIN 5 DAYS. IF SEASONAL CONDITIONS PROHIBIT SEEDING, MULCHING OR MATTING SHALL BE USED.
j. INSPECTION OF SILTATION CONTROL DEVICES SHALL TAKE PLACE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF ANY HEAVY RAIN EVENT. ANY SILTATION CONTROL IN NEED OF REPAIR SHALL OCCUR IMMEDIATELY.
k. ALL GRADING OPERATIONS ARE SUBJECT TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT IF ONE HAS BEEN PREPARED FOR THIS PROJECT.
l. SEDIMENTATION CONTROLS SHALL ONLY BE REMOVED AFTER THE SITE IS COMPLETELY STABILIZED, VEGETATION IS WELL ESTABLISHED, AND ALL PAVEMENT AREAS ARE INSTALLED.
m. THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN, AND REMOVE A PUBLIC NOTIFICATION SIGN

12.) PLANNED RESPONSE TO LOSS OF CONTAINED SEDIMENT
a. B.M.P.'s SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY, AS REQUIRED, TO STABILIZE SITE AND CONTAIN SEDIMENT LADEN RUNOFF. OFFSITE AREAS SHALL BE REVIEWED FOR EXTENT OF IMPACT FROM B.M.P. FAILURE. PERMIT HOLDER SHALL BE REQUIRED TO PROVIDE DOCUMENTATION OF THE B.M.P. MEASURES INSTALLED AND SCHEDULED MAINTENANCE AND REPAIRS. DOCUMENTATION OF ACTIONS AND MANDATORY REPORTING ARE REQUIRED TO BE PROVIDED TO FRANKLIN COUNTY DEPARTMENT OF PUBLIC WORKS.
b. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ADDITIONAL B.M.P. MEASURES BEYOND THOSE SHOWN IF CONDITIONS DICTATE OR CURRENT MEASURES ARE INSUFFICIENT.

13.) DESCRIPTION OF PERMANENT B.M.P.'s TO REMAIN AFTER CONSTRUCTION
a. TURF AREAS – TURF AREAS SHALL BE MAINTAINED TO INSURE SITE AREAS REMAIN STABILIZED UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
b. PAVED AREAS AND WALKWAYS – AREAS SUBJECT TO FOOT AND VEHICLE TRAFFIC SHALL BE PAVED AND KEPT IN GOOD REPAIR FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES. MAINTENANCE SHALL BE THE OWNER'S RESPONSIBILITY.

14.) NON-STORMWATER DISCHARGES
NON-STORMWATER DISCHARGES INCLUDE CONSTRUCTION WASHDOWN AREAS AND CONCRETE WASHOUT AREAS. CONTRACTOR SHALL USE EVERY EFFORT TO MINIMIZE UPSTREAM RUNOFF FROM ENTERING THESE AREAS. TEMPORARY BERMS SHALL BE USED TO ASSIST IN CONTAINING RUNOFF.

15.) TABLE OF BEST MANAGEMENT PRACTICE

ITEM	STATUS
SILT FENCE	TEMPORARY
INLET PROTECTION	TEMPORARY
WASHDOWN AREA	TEMPORARY
CONSTRUCTION ENTRANCE	TEMPORARY
AREA TO BE SEEDED/SODDED	PERMANENT
CONSTRUCTION PARKING	PERMANENT
CONCRETE WASHOUT	TEMPORARY

TEMPORARY BMP'S TO RE REMOVED ONLY AFTER ALL UPSTREAM TRIBUTARY AREAS HAVE BEEN COMPLETELY STABILIZED.

16.) ANY LAND CLEARING, CONSTRUCTION, OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN, AND THE PERSON ISSUED A LAND DISTURBANCE PERMIT ASSUMES AND ACKNOWLEDGES RESPONSIBILITY FOR COMPLIANCE WITH THE FRANKLIN COUNTY LAND DISTURBANCE CODE AND THE APPROVED STORM WATER POLLUTION PLAN AT THE SITE OF THE PERMITTED ACTIVITY.

17.) **DESCRIPTION OF B.M.P.'s TO PREVENT POTENTIAL POLLUTANTS**
(CONSTRUCTION WASTES, TOXIC OR HAZARDOUS SUBSTANCES, PETROLEUM PRODUCTS, PESTICIDES, HERBICIDES, SITE LITTER, SANITARY WASTES, ETC.)

a. SOLID NON-HAZARDOUS CONSTRUCTION WASTE – DISPOSE OF IN TRASH DUMPSTERS OR APPROVED EQUIVALENT IN A LOCATION APPROVED BY THE OWNER. POTENTIALLY SOLUBLE OR LEACHABLE SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS. SOLID WASTE SHALL BE PROPERLY DISPOSED OF OFF-SITE ON A REGULAR BASIS.
b. HAZARDOUS WASTE – HAZARDOUS WASTE SHALL BE SEGREGATED FROM NON-HAZARDOUS CONSTRUCTION SITE DEBRIS. LIQUID OR SEMI-LIQUID HAZARDOUS WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS (CLOSED DRUMS OR SIMILAR) AND SHALL BE KEPT UNDER COVER. GRANULAR, SOLUBLE OR LEACHABLE HAZARDOUS WASTE MATERIALS SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS. THE OWNER SHALL PROPERLY APPROVE ANY HAZARDOUS WASTE STORAGE AREA LOCATIONS.
c. HAZARDOUS WASTE SHALL BE PROPERLY DISPOSED OF OFF-SITE ON A REGULAR BASIS BY A REPUTABLE, LICENSED HAZARDOUS WASTE HAULER.
d. IT IS NOT THE INTENT OF THIS SWPPP TO SUPERSEDE OR REPLACE NORMAL SITE ASSESSMENT AND REMEDIATION PROCEDURES CONCERNING HAZARDOUS MATERIALS. SIGNIFICANT SPILLS AND/OR CONTAMINATION WARRANT AN IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS. SUSPECTED JOB SITE CONTAMINATION SHOULD IMMEDIATELY BE REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE MEASURES TAKEN.
e. FRESH CONCRETE WASTE AND CONCRETE EQUIPMENT WASHDOWNS SHALL BE CONTAINED AND SHALL BE STORED AWAY FROM DRAINAGE DITCHES, SWALES AND DRAINAGE STRUCTURES. WHERE APPROPRIATE, CONTAINMENT BERMS SHALL BE PLACED AROUND WASTE STORAGE AREAS.
f. ON-SITE FUELING FACILITIES ARE REQUIRED TO ADHERE TO ALL APPLICABLE FEDERAL AND STATE REGULATIONS CONCERNING STORAGE AND DISPENSERS.
g. THE CONTRACTOR/PERMITEE IS RESPONSIBLE FOR PROVIDING SANITARY FACILITIES APPROPRIATE TO THE NUMBER OF EMPLOYEES ON THE SITE. SANITARY/SEPTIC WASTE MANAGEMENT PRACTICES ARE TO BE IMPLEMENTED ON ALL CONSTRUCTION SITES THAT USE TEMPORARY OR PORTABLE SANITARY/SEPTIC WASTE SYSTEMS. SANITARY WASTE MAY ONLY BE DISPOSED OF IN ACCORDANCE WITH THE MISSOURI CLEAN WATER LAW. WASTEWATER SHALL NOT BE DISCHARGED ONTO OR BURIED WITHIN THE CONSTRUCTION SITE.

NO TEMPORARY TOILET FACILITIES SHALL BE PLACED WITHIN 50 FEET OF A WATER COURSE (WET OR DRY) OR A STORM SEWER INLET. AVOID LOCATING SANITARY FACILITIES ON AN IMPERVIOUS SURFACE. SECONDARY CONTAINMENT MAY BE REQUIRED FOR SANITARY FACILITIES LOCATED ON IMPERVIOUS SURFACES. THE TEMPORARY TOILET FACILITIES SHALL BE MONITORED TO PREVENT LEAKAGE. IF THE TEMPORARY TOILET FACILITY TIPS OVER DUE TO VANDALISM OR STORMS, ETC., IT SHALL BE SET UPRIGHT IMMEDIATELY UPON DISCOVERY AND ANY MATERIAL THAT LEAKED OR SPILLED SHALL BE CONTAINED AND CLEANED UP. REPEATED TIP OVER'S MAY BE CAUSE TO STAKE OR TIE THE TEMPORARY TOILET FACILITIES IN THE UPRIGHT POSITION.

A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR SHALL COLLECT ALL SANITARY WASTE FROM THE TEMPORARY TOILET FACILITY ON A REGULAR BASIS. INSPECT ALL SANITARY WASTE MANAGEMENT DEVICES WEEKLY AND AFTER EACH RAINFALL EVENT THAT RESULTS IN STORMWATER RUNOFF. ANTICIPATE FLUCTUATIONS IN FACILITY USAGE BASED ON THE NUMBER AND LOCATION OF CONCURRENT CONSTRUCTION ACTIVITIES AS WELL AS VARIATIONS IN THE TOTAL NUMBER OF WORKERS PRESENT ON THE SITE. RE-LOCATE FACILITIES, ADD UNITS, OR INCREASE THE FREQUENCY OF MAINTENANCE CALLS TO WASTE HAULERS AS NECESSARY TO MAKE SURE THE UNITS ARE CONVENIENT FOR USE AND DO NOT OVERFILL.

18.) INDUSTRIAL ACTIVITIES SUCH AS CONCRETE OR ASPHALT BATCH PLANTS ARE NOT ANTICIPATED FOR THIS DEVELOPMENT.

19.) THE CONTRACTOR SHALL REFER TO THE MOST CURRENT EDITION OF ST. LOUIS COUNTY'S MODEL BEST MANAGEMENT PRACTICES (BMP) FOR LAND DISTURBANCE SEDIMENT AND EROSION CONTROL HANDBOOK FOR DETAILS AND SPECIFICATIONS.

20.) SEDIMENT SHALL BE WASHED FROM ALL VEHICLES AT WASH DOWN STATION PRIOR TO LEAVING THE SITE. NO TRACKING OF MUD ONTO PUBLIC ROADS SHALL BE ALLOWED.

21.) LIST OF EPA ALLOWABLE NON-STORM WATER DISCHARGES (JAN. 2011). THE FOLLOWING NON-STORM WATER DISCHARGES ARE AUTHORIZED BY THE EPA PROVIDED IT HAS BEEN DETERMINED BY THE PERMITTEE THAT THEY ARE NOT SIGNIFICANT CONTRIBUTORS OF POLLUTANTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4). IMPLEMENTATION OF POLLUTION PREVENTION MEASURES FOR NON-STORM WATER DISCHARGES IS REQUIRED FOR SIGNIFICANT CONTRIBUTORS.

a.) WATER LINE FLUSHING
b.) LANDSCAPE IRRIGATION
c.) DIVERTED STREAM FLOWS
d.) RISING GROUND WATERS
e.) UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20))
f.) UNCONTAMINATED PUMPED GROUND WATER
g.) DISCHARGE FROM POTABLE WATER SOURCES
h.) FOUNDATION DRAINS
i.) AIR CONDITIONING CONDENSATION
j.) IRRIGATION WATER, SPRINGS
k.) WATER FROM CRAWL SPACE PUMPS
l.) FOOTING DRAINS
m.) LAWN WATERING
n.) INDIVIDUAL RESIDENT CAR WASHING
o.) FLOW FROM RIPARIAN HABITATS & WETLANDS
p.) DECHLORINATED SWIMMING POOL DISCHARGE
q.) STREET WASH WATER
r.) RESIDENTIAL BUILDING WASH WATERS (WITHOUT DETERGENTS)

NO SIGNIFICANT CONTRIBUTORS OF NON-STORM WATER DISCHARGES ARE ANTICIPATED FOR THIS PROJECT.

22.) ANTICIPATED DEWATERING METHODS (SUBJECT TO CONTRACTOR'S ANTICIPATED MEANS & METHODS)
a.) CONTRACTOR TO USE CARE WHEN PUMPING WATER FROM CONSTRUCTION EXCAVATIONS AND ATTENTION MUST BE PAID TO THE FINAL DESTINATION OF THIS WATER. SEDIMENT CONTAINED IN THE WATER MUST FIRST BE REMOVED. ONCE IT IS PUMPED OUT OF THE EXCAVATION, THIS WATER MUST THEN BE PREVENTED FROM ERODING SOIL.
b.) AN OIL/WATER SEPARATOR OR OTHER SUITABLE FILTRATION METHOD WILL BE REQUIRED PRIOR TO DISCHARGE IF THE COLLECTED WATER HAS BEEN CONTAMINATED WITH PETROLEUM PRODUCTS, OIL OR GREASE. A LICENSED TRANSPORTER WILL BE REQUIRED TO BOTH CONTAIN AND TO TRANSPORT THE COLLECTED WATER AWAY FROM THE CONSTRUCTION SITE IF IT HAS BEEN CONTAMINATED WITH HAZARDOUS OR TOXIC CHEMICALS. IN THE CASE OF CONTAMINATED WATER BEING TRUCKED FROM THE CONSTRUCTION SITE, THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL AGENCIES MUST BE ADHERED TO.
c.) THE DEWATERING METHODS OF EXCAVATED AREAS ANTICIPATED TO BE USED TO REMOVE WATER FROM THE CONSTRUCTION SITE ARE THE FOLLOWING:
1. BUCKET CONNECTED TO SPECIFIC PIECES OF CONSTRUCTION EQUIPMENT TO MECHANICALLY SCOOP THE WATER FROM THE EXCAVATIONS
2. PUMPING OR SIPHONING WATER FROM THE COLLECTION SITES
3. THE USE OF A GRAVITY DRAIN THROUGH CHANNELS

23.) ALL STATE AND COUNTY LAND DISTURBANCE PERMITS, BMP INSPECTION REPORTS AND RELATED DOCUMENTATION SHALL BE KEPT ON-SITE WITH THE SWPPP PLANS.

24.) NO EVIDENCE OF SINKHOLES, SPRINGS, SEEPS OR KARST FEATURES WERE IDENTIFIED ON THE SUBJECT SITE OR WITHIN THE PROJECT AREA.

25.) NO WETLANDS AREAS WERE IDENTIFIED ONSITE PER THE NATIONAL WETLANDS INVENTORY MAP.

CONSTRUCTION ENTRANCE

PHYSICAL DESCRIPTION - A stabilized entrance to a construction site designed to minimize the amount of sediment tracked from the site on vehicles and equipment. Stabilization generally consists of aggregate over geogrid and geosynthetic material. Mud and sediment fall off of tires as they travel along the stabilized entrance; however, additional measures in the form of a washdown area should also be included on site. The stabilized entrance also distributes the axle load of vehicles over a larger area; thereby mitigating the rutting impact vehicles normally have on unpaved areas. See additional information in the "Construction Site Access Requirements" section of this manual.

WHERE BMP IS TO BE INSTALLED - At locations where it is safe for construction vehicles and equipment to access existing streets – preferably at location of future streets or drives.

CONDITIONS FOR EFFECTIVE USE OF BMPs

Drainage: Ditches or pipes, if needed, sized for 15 year, 20 minute storm; HGL 6" below surface of entrance

WHEN BMP IS TO BE INSTALLED - First order of work, along with washdown area, prior to vehicles or equipment accessing unpaved areas.

INSTALLATION / CONSTRUCTION PROCEDURES

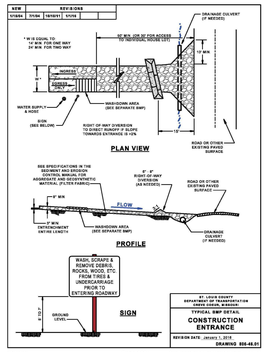
- ✓ Grade and compact area of construction entrance.
- ✓ Install culvert under entrance if needed to maintain positive drainage.
- ✓ Place geosynthetic material next to compacted soil, lay geogrid on top of this, and cover with aggregate, forming diversion across entrance if needed to direct runoff away from roadway.
- ✓ See Washdown Station BMP for additional steps.

O&M PROCEDURES:

- ✓ Immediately remove any mud or debris tracked onto paved surfaces.
- ✓ Remove sediment and clods of dirt from construction entrance continuously.
- ✓ Replace rock if necessary to maintain clean surface.
- ✓ Repair settled areas.

SITE CONDITIONS FOR REMOVAL - Remove when vehicles and equipment will no longer access unpaved areas.

TYPICAL DETAIL - 806-46.01



WASHDOWN STATION

PHYSICAL DESCRIPTION - An area located at construction entrances designed to wash sediment from the tires and undercarriage of exiting vehicles and prevent sediment from being tracked onto existing roadways.

WHERE BMP IS TO BE INSTALLED - Across or immediately adjacent to exit paths from unpaved construction sites.

CONDITIONS FOR EFFECTIVE USE OF BMPs

Drainage: Downstream BMPs sized to treat dirty runoff from washdown station

WHEN BMP IS TO BE INSTALLED - First order of work, along with construction entrance, prior to vehicles or equipment accessing unpaved areas.

INSTALLATION/CONSTRUCTION PROCEDURES

- ✓ Grade and compact area for drainage under washdown pad.
- ✓ Install steel-ribbed patio on frame or other support to allow a 2" drain space.
- ✓ Grade and vegetate downstream BMPs (V-ditch shown on detail).
- ✓ Install water supply and hose.
- ✓ Post sign in advance of station indicating that all exiting vehicles and equipment must use station prior to exiting site.

O&M PROCEDURES:

- ✓ Remove sediment daily.
- ✓ Repair settled areas.
- ✓ Replace rock if necessary to maintain clean surface.

**SITE CONDIT

ARCHITECTURAL ABBREVIATIONS

&	AND
<	ANGLE
@	AT
AACP	ACOUSTICAL CEILING PANEL
AB	ANCHOR BOLT
ACCS PL	ACCESS PANEL
ACOUS, ACS	ACOUSTIC(AL)
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN, ADHESIVE
ADDL	ADDITIONAL
ADJ	ADJUSTABLE, ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFS	ABOVE FINISH SLAB
AGGRE	AGGREGATE
ALT	ALTERNATE
ALUM, AL	ALUMINIUM
AND	ANODIZED
APPROX	APPROXIMAGE(LY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AVG	AVERAGE

BB	BULLETIN BOARD
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLK, BLKG	BLOCK, BLOCKING
BM	BENCHMARK
BMD	BOTTOM OF METAL DECK
BO	BOTTOM OF. BY OTHERS
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING SYSTEM

[	CHANNEL
CAB	CABINET
CB	CATCH BASIN,
CCR	CARD CONTROL READER
CCT	CUBICLE CURTIAIN TRACK
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT, CEMENTITIOUS
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED-CONTRACTOR INSTALLED
CG	CORNER GUARD
CH BD	CHALKBOARD
CI	CAST IRON
CJ	CONTROL JOINT
CL, ℄	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRUGATED, CORRIDOR
CPT	CARPET
CRSC	COLD ROLLED STEEL CHANNEL
CSK	COUNTERSUNK
CSP	COMBINATION STANDPIPE
CSWK	CASEWORK
CT	CERAMIC TILE
CU	CUBIC
CW	COLD WATER

D	DEPTH
DBL	DOUBLE
DBL ACT	DOUBLE ACTING
DEG	DEGREE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DIM PT	DIMENTION POINT
DISP	DISPENSER
DIST	DISTANCE
DK	DECK
DN	DOWN
DR	DRAIN, DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DT	DRAPERY TRACK
DTL	DETAIL
DW	DISHWASHER
DWG, DWGS	DRAWING, DRAWINGS

E	EAST
EA	EACH
EDR	EQUIMPENT DRAWING
EG	EDGE GUARD
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EMER	EMERGENCY
ENGR	ENGINEER
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EPB	ELECTRICAL PANEL BOARD
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQLS P	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESCAL	ESCALATOR
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATED
EXH	EXHAUST
EXIST, (E)	EXISTING
EXP	EXPANSION JOINT
EXT	EXTERIOR
EX-BR	EXISTING BRICK

F	FACE TO FACE
FA	FIRE ALARM
FAS	FIRE ALARM STATION
FB	FLAT BAR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FF	FINISH FACE
FG	FINISH GRADE
FHC	FIRE HOSE CABINET
FHFEC	FIRE HOSE / FIRE EXTINGUSHER CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FHY	FIRE HYDRANT
FIN	FINISH, FINISHED
FLAM	FLAMMABLE
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FACE OF
FRT	FIRE RETARDANT TREATMENT
FRZ	FREEZER
FSB	FOLDING SHOWER BENCH
FSTNR	FASTENER
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FXTR	FIXTURE

G	GAS
GA	GAUGE, GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GLU LAM	GLUE LAMINATED
GLZ	GLAZING
GR	GRADE, GRADING
GVL	GRAVEL
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER

H	HIGH
HB	HOSE BIB
HC	HOLLOW CORE
HD	HEAD
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HGT, HT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HSKP	HOUSEKEEPING
HVAC	HEATING-VENTILATION-AIR CONDITIONING
HW	HOT WATER

ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
IVT	INTRAVENOUS TRACK

JAN	JANITOR
JST	JOIST
JT	JOINT

KG	KILOGRAM
KIT	KITCHEN
KPL	KICK PLATE
KS	KNEE SPACE

L	LENGTH, LONG
LAB	LABORATORY
LAM	LAMINATE, LAMINATION
LAV	LAVATORY
LB	POUND
LED	LIGHT EMITTING DIODE
LF	LINEAR FOOT
LG	LENGTH
LIN	LINEAR
LL	LEAD LINED
LPT	LOW POINT
LT	LIGHT
LT WT	LIGHT WEIGHT
LTG	LIGHTING
LVR	LOUVER

M	METERS
MACH	MACHINE
MATL	MATERIAL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MEDICINE CABINET
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MET, MTL	METAL
MEMB	MEMBRANE
MFR, MFGR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MM	MILLIMETERS
MO	MASONRY OPENING
MOD	MODULE, MODULAR
MTD	MOUNTED
MTG	MOUNTING
MULL	MULLION
MVBL	MOVEABLE
MW	MICROWAVE

(N)	NEW
N	NORTH
NA, N/A	NOT APPLICABLE
NAT	NATURAL
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
NW	NORTHWEST

OC	ON CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISH-CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED-OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OVHD	OVERHEAD
OZ	OUNCE

PA	PUBLIC ADDRESS
PART	PARTIAL
PBD	PARTICLEBOARD
PBX	PRIVATE TELEPHONE EXCHANGE
PCF	POUNDS PER CUBIC FOOT
PCI	POUNDS PER CUBIC INCH
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNL BD	PANEL BOARD
PNT, P	PAINT
PORT	PORTABLE
PP	PUSH PLATE
PPM	PARTS PER MILLION
PR	PAIR
PRCST	PRECAST
PREP	PREPARATION
PREFAB	PREFABRICATION
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PT, PTD	PAINT, PAINTED
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER

QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY

R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RD	ROOF DRAIN
RECT	RECTANGULAR
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE(D)(ING)(MENT)
REQD	REQUIRED
REQT	REQUIREMENT
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RF	RESILIENT FLOORING
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWL	RAIN WATER LEADER

S	SOUTH
SA	SUPPLY AIR
SB	SPLASHBLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SD	STORM DRAIN
SECT	SECTION
SEG	SEGMENT
SEP	SEPARATION, SEPARATE
SEP JT	SEPARATION JOINT
SHT	SHEET, SHEETING
SHWR	SHOWER
SHV	SHELVES, SHELVING
SIM	SIMILAR
SK	SINK
SMS	SHEET METAL SCREW
SP	SPACE, SPACED, SPACING
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SS	SANITARY SEWER
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STS	SELF-TAPPING STEEL
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SVCE	SERVICE
SYMM	SYMMETRICAL
SYST	SYSTEM

T	TREAD
T&B	TOP AND BOTTOM
T&G	TOUNGE AND GROOVE
TC	TOP OF CONCRETE, TOP OF CURB
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
THERM	THERMAL
THK	THICK, THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TMPD GL	TEMPERED GLASS
TO	TOP OF
TOR	TOP OF RAILING
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TPH	TOILET PAPER HOLDER
TRANS	TRANSPARENT
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
TW	TOP OF WALL

UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY

VAC	VACUUM
VB	VALVE BOX
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIT	VITREOUS
VP	VENT PIPE
VOL	VOLUME
VWC	VINYL WALL COVERING

W	WEST
WI	WITH
W/W	WALL TO WALL
WAINS	WAINSCOT
WC	WATER CLOSET, WALL COVERING
WD	WOOD
WDW	WINDOW
WGL	WIRE GLASS
WCHR	WHEELCHAIR
WM	WIRE MESH
WO	WHERE OCCURS
W/O	WITHOUT
WP	WATERPROOF
WPT	WORKING POINT
WR	WATER RESISTANT
WSCT	WAINSCOT
WSP	WET STANDPIPE
WT	WEIGHT
WTHPRF	WEATHERPROOF
WTRPRF	WATERPROOF
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

XFMR	TRANSFORMER

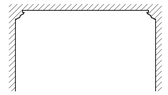
YD	YARD
YR	YEAR

ARCHITECTURAL DIMENSIONING CONVENTIONS

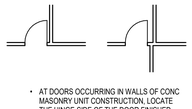
1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN," DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN (OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED) ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, CONFIGURATION DETAILS, AND SPECIFICATIONS. SEE THE NOTES BELOW FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.
3. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS:
   A. DIMENSIONS UTILIZING THE "CENTERLINE" SYMBOL ARE MEASURED TO:
      - STRUCTURAL OR DIMENSIONAL GRID LINES
      - CENTERLINE OF CONCRETE OR CONC MASONRY UNIT WALLS (EXCLUSIVE OF FURRING OR APPLIED FINISHES HAVING THICKNESS). REFER TO THE ARCH PLANS AND SECTIONS, THE STRUCT DRAWINGS, OR PARTITION SCHEDULE TO DETERMINE THE THICKNESS OF CONCRETE OR CONC MASONRY UNIT WALLS.
      - CENTERLINE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AT PARTITIONS FRAMED WITH METAL STUDS. REFER TO "PARTITION SCHEDULE" TO DETERMINE THICKNESS OF EACH PARTITION TYPE.
      - CENTERLINE OF DOOR, WINDOW, OR LOUVER OPENING.
      - CENTERLINE OF EQUIPMENT OR FURNISHING.
      - CENTERLINE OF OTHER FEATURES AS INDICATED.
   B. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE CENTERLINE DIMENSION.
   C. DIMENSIONS UTILIZING THE "FACE OF" SYMBOL ARE MEASURED TO
      - FACE OF CONCRETE OR CONC MASONRY UNIT WALL (EXCLUSIVE OF APPLIED FINISHES HAVING THICKNESS OR FURRING WHICH MAY BE ADDED TO THE FACE OF SUCH WALLS).
      - FACE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALL) AS DEFINED BY THE PARTITION SCHEDULE. UNLESS NOTED AS A "FACE OF FINISH" OR "CLEAR" DIMENSION (SEE NOTE 'E' BELOW), DIMENSIONS ARE NOT MEASURED TO THE FACE OF APPLIED FINISH. REFER TO THE "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
      - INSIDE EDGE OF FINISHED DOOR OPENING. REFER TO THE DOOR SCHEDULE FOR ADDITIONAL DIMENSIONAL INFORMATION.
   D. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE "FACE OF" DIMENSION.
   E. WHERE "FACE OF FINISH" OR "CLEAR" DIMENSIONS ARE SPECIFICALLY NOTED, THE DIM IS MEASURED TO:
      - FINISH FACES AT THE MOST NARROW OR CONSTRICTED POINTS OF SECTION WHERE DIMENSION IS SHOWN. WHEN THE DIMENSION OCCURS ACROSS AN OPEN SPACE. THIS CASE, A "FACE OF FINISH" DIMENSION IS EQUIVALENT TO A "CLEAR" DIMENSION.
      - FINISH FACES AT THE WIDEST OR MOST EXPANSIVE POINTS OF THE SECTION THE DIMENSION IS SHOWN WHEN THE DIMENSION OCCURS ACROSS AN OBJECT OR GROUP OF OBJECTS.
   F. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO:
      - EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT APPLIED FINISH MEASURED AT THE PLANE OF THE CEILING.

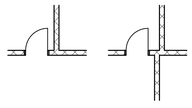
NOTE NO 3 CONTINUED:

- CAUTION: DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR (EXCEPT AS INDICATED BY "FOF" OR "CLEAR") BY THE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONTRACTOR MUST ADJUST, AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT PLANE OF THE CEILING.



4. WHERE DIMENSIONS ARE NOT PROVIDED ON FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, **IN ORDER**, TO DETERMINE THE LOCATION OF DOOR OPENINGS:
   A. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO THE SECTIONS, ELEVATIONS, DETAILS, AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.
   B. WHERE THE HINGE-SIDE OF A DOOR IS SHOWN ADJACENT TO A WALL - OR WALLS - PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS:
      - AT DOORS OCCURRING IN METAL FRAMED GYPSUM BOARD PARTITIONS, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 4 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.



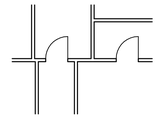


- AT DOORS OCCURRING IN WALLS OF CONC MASONRY UNIT CONSTRUCTION, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 10 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.

NOTE NO 4 CONTINUED:

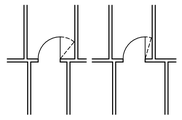
C. WHERE DOOR OCCURS NOT ADJACENT TO A PERPENDICULAR WALL AND EITHER "DIM E" OR "DIM F" IN DIAGRAM BELOW IS 16'-0" OR LESS, LOCATE DOOR UTILIZING THE FOLLOWING MINIMUM DIMENSIONS:

- DIMENSION A = 18 INCHES MIN
- DIMENSION B = 12 INCHES MIN
- DIMENSION C = DOOR WIDTH + 2 INCHES MINIMUM
- DIMENSION D = 4 INCHES MIN AT METAL FRAMED GYP BD PARTITIONS OR - EVEN MULTIPLE OF 1/2 CMU MODULE PLUS 2 INCHES AT CONC MASONRY UNIT WALLS
- DIMENSIONS E AND F = AS SHOWN ON PLANS
- DIMENSION G = 36 INCHES MIN
- DIMENSION H = 60 INCHES MIN

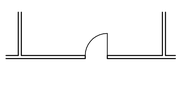


- IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C" OR "DIM B" EQUALS "DIM D".

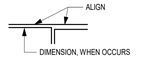
D. IF "DIM E" IN DIAGRAMS BELOW IS LESS THAN THE SUM OF 2 TIMES THE DOOR WIDTH PLUS 20 INCHES, LOCATE DOOR SO THAT MINIMUMS STATED BY NOTE NO 4C ABOVE FOR "DIM A", "DIM B", AND "DIM D" ARE MET - MAXIMIZING "DIM A" AND MINIMIZING "DIM D" TO THE EXTENT POSSIBLE



E. WHERE DOOR IS SHOWN LOCATED IN A LARGE EXPANSE OF OPEN WALL (DIM E" AND "DIM F" IN DIAGRAM BELOW BOTH EXCEED 16'-0"), PLACE DOOR AT APPROXIMATE LOCATION SHOWN ON THE PLANS. WHERE DOOR OCCURS IN CMU WALL, PLACE DOOR AT APPROXIMATE LOCATION SHOWN WHILE MINIMIZING "CUT" OR PARTIAL CMU MODULES ADJACENT TO THE JAMBS.

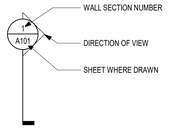


5. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED.

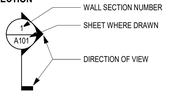


TYPICAL ARCHITECTURAL REFERENCE SYMBOLS

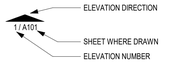
WALL SECTION



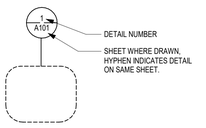
BUILDING SECTION



EXTERIOR ELEVATION



DETAIL REFERENCE



SECTION DETAIL REFERENCE



INTERIOR ELEVATION REFERENCE



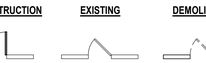
PARTITION TYPE IDENTIFICATION MARK



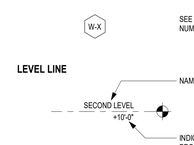
EQUIPMENT/ACCESSORY IDENTIFICATION MARK



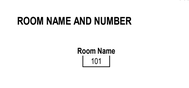
DOOR IDENTIFICATION MARK



WINDOW AND LOUVER TYPE MARK



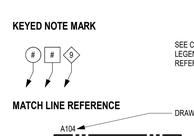
LEVEL LINE



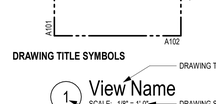
ROOM NAME AND NUMBER



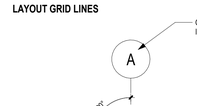
REVISION EXTENT



KEYED NOTE MARK



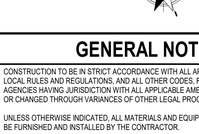
MATCH LINE REFERENCE



DRAWING TITLE SYMBOLS



LAYOUT GRID LINES



NORTH ARROW REFERENCE

TYPICAL RULES FOR DETERMINING REFLECTED CEILING PLAN LOCATIONS, DIMENSIONS, AND CONFIGURATIONS

GENERAL NOTES

A. THE A-SERIES DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS. THE A-SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE **EXCEPTION:** DIMENSIONED LOCATIONS SHOWN ON ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:
   1. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.
   2. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIABLE SPACE FOR WHICH ARCH SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK, AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON REFLECTED CEILING PLANS OF THE PROJECT.

C. THE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE THE DIMENSIONED LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. APPLY THE RULES ON THIS SHEET - **IN ORDER** - TO DETERMINE THE LOCATION OF EXPOSED PART OF THE WORK.
   1. WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED.
   2. IF NOT SHOWN, OR IF SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE RULE.

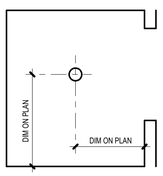
D. REFER TO THE "ARCHITECTURAL GENERAL NOTES" FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.

E. FOR MANY SPACES, THE ARCHITECTURAL REFLECTED CEILING PLANS ESTABLISH AN IDEAL PATTERN FOR LOCATING SPRINKLER HEADS. IN SPACES WHERE HEADS ARE SHOWN, FOLLOW PATTERN ESTABLISHED BY THE DRAWINGS. WHERE ADDL HEADS ARE REQUIRED TO CONFORM WITH CODE, PROVIDE HEADS IN GENERAL CONFORMITY WITH PATTERN ESTABLISHED BY THE DRAWINGS.

F. IN SPACES WHERE SPRINKLER HEADS ARE NOT SHOWN BY THE ARCHITECTURAL REFLECTED CEILING PLANS, PROVIDE HEADS AS REQUIRED BY CODE.

RULE 1

WHEN COMPLETELY DIMENSIONED ON REFLECTED CEILING PLAN

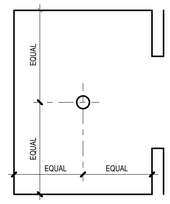


LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY A REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL.

SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS, ELEVATIONS, OR DETAILS TAKE PRECEDENCE OVER TYPICAL LOCATION RULES.

RULE 2

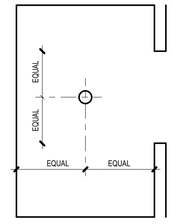
WHEN NOT DIMENSIONED BUT SHOWN CENTERED



LOCATE ITEMS CENTERED IN SPACE (OR CEILING PLANE) WHEN SHOWN (BUT NOT DIMENSIONED) VISUALLY AT APPROXIMATE CENTER OF SPACE.

RULE 3

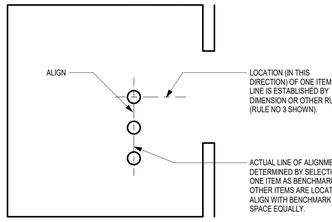
WHEN OFF-CENTER IN SPACE BUT CENTERED ON ADJACENT FEATURE



LOCATE ITEMS CENTERED ON ADJACENT OPENING OR FEATURE WHEN SHOWN (BUT NOT DIMENSIONED) OFF-CENTER IN OVERALL SPACE BUT CENTERED AGAINST ADJACENT FEATURE.

RULE 4

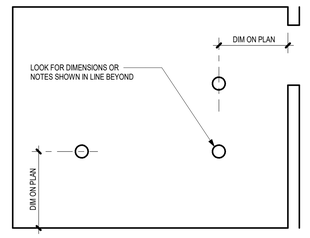
WHEN ALIGNED WITH OTHER FEATURES



LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) ALIGNED WITH ADJACENT ITEMS FOR WHICH DIMENSIONS OR RULES ARE PROVIDED. VISUAL ALIGNMENT IS CRITICAL. THE CONTRACTOR SHALL SELECT ONE ITEM IN EACH LINE (ON BASIS OF TOLERANCES, SEQUENCE OF CONSTRUCTION, TRADE, OR OTHER CRITERIA) TO SERVE AS THE BENCHMARK FOR EACH ALIGNMENT.

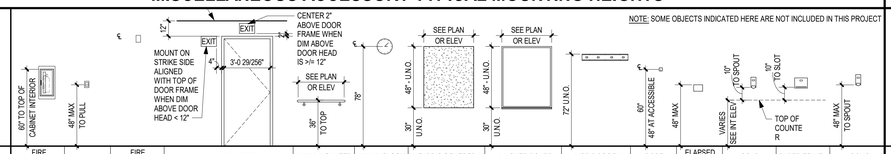
RULE 5

ALIGN WITH FEATURES SHOWN DIMENSIONED ELSEWHERE IN SPACE


DIM ON PLAN
LOOK FOR DIMENSIONS OR NOTES SHOWN IN LINE

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

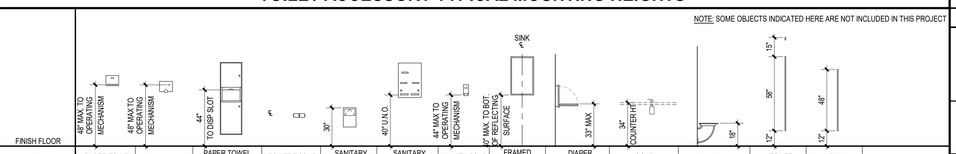
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	FIRE EXTINGUISHER CABINET	MANUAL FIRE PULL	FIRE STROBE/LIGHT/ AUDIBLE ALARM	WALL MOUNTED EXIT SIGN	WALL MOUNTED HANDRAIL	WALL CLOCK	FABRIC COVERED TACK BOARD	MARKER BOARD	MOP & BROOM HOLDER	ROBE HOOK	ELAPSED TIME CLOCK	SOAP DISPENSER	PAPER TOWEL DISPENSER	ALCOHOL DISPENSER
COMMENTS	SEMI RECESSED	SURFACE MOUNTED	SURFACE MOUNTED	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

TOILET ACCESSORY TYPICAL MOUNTING HEIGHTS

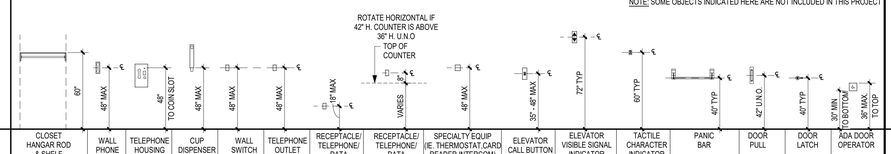
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	PAPER TOWEL DISPENSER	POWER HAND DRYER	PAPER TOWEL DISPENSER & TRASH RECEPTACLE SEMI RECESSED	TOILET TISSUE DISPENSER	SANITARY NAPKIN DISPOSAL	SANITARY NAPKIN DISPENSER	VANITY SOAP DISPENSER	FRAMED VANITY MIRROR	DIAPER CHANGING STATION	SOAP DISPENSER	FOLDING SHOWER SEAT	TOILET PARTITION	URINAL SCREEN
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	RECESSED & SURFACE	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	COUNTERTOP MOUNTED	SURFACE MOUNTED	WALL MOUNTED	WALL MOUNTED

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

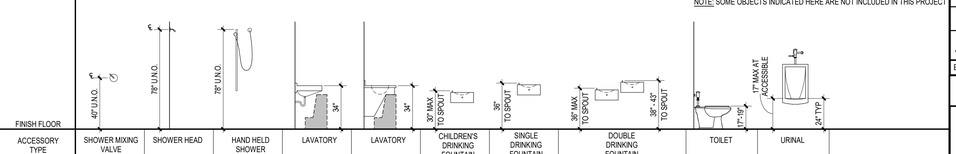
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	CLOSET HANGAR ROD & SHELF	WALL PHONE	TELEPHONE HOUSING	CUP DISPENSER	WALL SWITCH	TELEPHONE OUTLET	RECEPTACLE/ TELEPHONE/ DATA	RECEPTACLE/ TELEPHONE/ DATA	SPECIALTY EQUIP (E. THERMOSTAT, CARD READER,INTERCOM)	ELEVATOR CALL BUTTON	ELEVATOR VISIBLE SIGNAL INDICATOR	TACTILE CHARACTER INDICATOR	PANIC BAR	DOOR PULL	DOOR LATCH	ADA DOOR OPERATOR
COMMENTS	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	VARIES

PLUMBING FIXTURE TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	SHOWER MIXING VALVE	SHOWER HEAD	HAND HELD SHOWER	LAVATORY	LAVATORY	CHILDREN'S DRINKING FOUNTAIN	SINGLE DRINKING FOUNTAIN	DOUBLE DRINKING FOUNTAIN	TOILET	URINAL
COMMENTS	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	COUNTER MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL/FLOOR MOUNTED	WALL MOUNTED

GRAB BAR TYPICAL MOUNTING HEIGHTS & TOILET ACCESSORY PLANS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



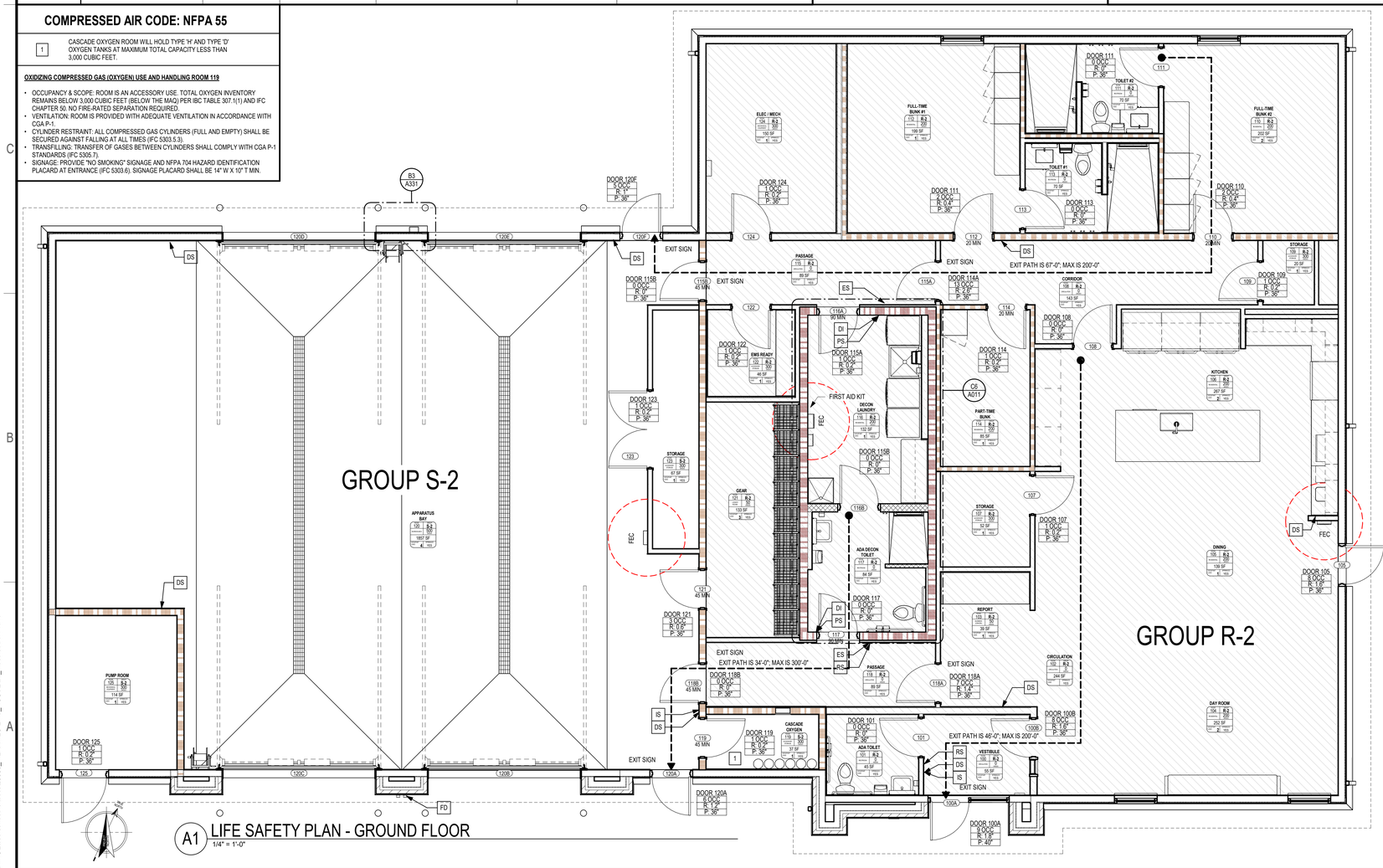
ACCESSORY TYPE	ADA TOILET GRAB BAR	SHOWER STALL GRAB BAR	ROLL-IN SHOWER STALL GRAB BAR	TYPICAL ACCESSORIES AT ACCESSIBLE TOILET	REQUIRED FRONT APPROACH KNEE CLEARANCE	OBSTRUCTED FORWARD REACH	UNOBSTRUCTED FORWARD/SIDE REACH
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	NOTE: SANITARY NAPKIN DISPOSAL AT WOMEN'S & UNISEX ONLY	TYPICAL AT ALL VANITIES, DRINKING FOUNTAINS, ETC.	ADA REACH RANGES	

COMPRESSED AIR CODE: NFPA 55

1 CASCADE OXYGEN ROOM WILL HOLD TYPE 'H' AND TYPE 'D' OXYGEN TANKS AT MAXIMUM TOTAL CAPACITY LESS THAN 3,000 CUBIC FEET.

OXIDIZING COMPRESSED GAS (OXYGEN) USE AND HANDLING ROOM 119

- OCCUPANCY & SCOPE: ROOM IS AN ACCESSORY USE. TOTAL OXYGEN INVENTORY REMAINS BELOW 3,000 CUBIC FEET (BELOW THE MAQ) PER IBC TABLE 307.1(1) AND IFC CHAPTER 50. NO FIRE-RATED SEPARATION REQUIRED.
- VENTILATION: ROOM IS PROVIDED WITH ADEQUATE VENTILATION IN ACCORDANCE WITH CGA P-1.
- CYLINDER RESTRAINT: ALL COMPRESSED GAS CYLINDERS (FULL AND EMPTY) SHALL BE SECURED AGAINST FALLING AT ALL TIMES (IFC 5303.5.3).
- TRANSFILLING: TRANSFER OF GASES BETWEEN CYLINDERS SHALL COMPLY WITH CGA P-1 STANDARDS (IFC 5305.7).
- SIGNAGE: PROVIDE "NO SMOKING" SIGNAGE AND NFPA 704 HAZARD IDENTIFICATION PLACARD AT ENTRANCE (IFC 5303.6). SIGNAGE PLACARD SHALL BE 14" W X 10" T MIN.



A1 LIFE SAFETY PLAN - GROUND FLOOR
1/4" = 1'-0"

ACCESSORY & FIXTURE MOUNTING GENERAL NOTES

1. NOT ALL ACCESSORIES OR FIXTURES SHOWN HERE MAY BE USED IN THIS PROJECT.
2. APPLY TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.
3. PROVIDE FIRE-TREATED WOOD BLOCKING OR STEEL SHEET BACKING AS APPROPRIATE FOR THE CONSTRUCTION TYPE AND ACCESSORY INSTALLATION REQUIREMENTS.
4. BLOCKING TO BE INSTALLED AT ALL GRAB BAR LOCATIONS.
5. SOLID WOOD BLOCKING SHALL BE LET-IN AND/OR OVERLAID AND SECURELY ANCHORED TO STUDS. BLOCKING MUST FIT SNUGLY AND FILL THE DESIGNATED SPACE.
6. GRAB BARS ARE TO BE MOUNTED WITH CONCEALED FASTENERS TO BLOCKING IN WALL. BLOCKING SHALL SUPPORT 800 LB STATIC LOAD AND 1,000 LB DYNAMIC LOAD. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. ALL EXPOSED WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.

OCCUPANCY GROUP

ICC 500 STORM SHELTER = 155 SF USEABLE

RESIDENTIAL GROUP 'R-2' = 2,819 SF

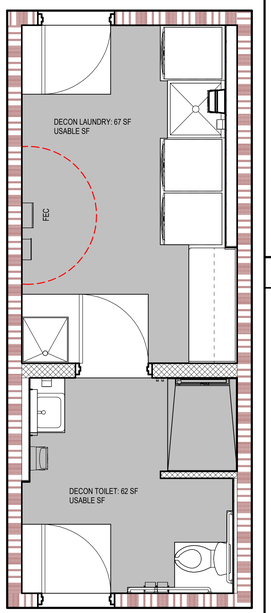
STORAGE GROUP 'S-2' = 1,805 SF

SIGNAGE LEGEND

MARK	DESCRIPTION
DI	DESIGN INFORMATION SIGNAGE: "COMMUNITY STORM SHELTER; DESIGN OCCUPANT CAPACITY: 38; DESIGN WIND SPEED 250 MPH; 2020 ICC500; (GENERAL CONTRACTOR): MOUNT AT 60" AFF TO C.L.; 3" RAISED LETTERING ON CONTRASTING BACKGROUND; PROVIDE BRAILLE BELOW.
DS	DIRECTIONAL SIGNAGE: (PATH OF TRAVEL TO STORM SHELTER); MOUNT AT 60" AFF TO C.L.; 3" RAISED LETTING ON CONTRASTING BACKGROUND; PROVIDE BRAILLE BELOW.
ES	ENTRY SIGNAGE: "COMMUNITY TORNADO SHELTER"; MOUNT AT 60" AFF TO C.L.; 3" RAISED LETTERING ON CONTRASTING BACKGROUND; PROVIDE BRAILLE BELOW
IS	IDENTIFYING SIGN: (GENERAL LOCATION OF STORM SHELTER AREA AND ACCESSWAYS)
PS	PERIMETER SIGNAGE: "NOTICE: NOW LEAVING TORNADO SHELTER"; MOUNT AT 60" AFF TO C.L.; 3" RAISED LETTERING ON CONTRASTING BACKGROUND; PROVIDE BRAILLE BELOW.
RS	RESTROOM SIGNAGE: "RESTROOM"; MOUNT AT 60" AFF TO C.L.; 3" RAISED LETTERING ON CONTRASTING BACKGROUND; PROVIDE BRAILLE BELOW
FD	FDC SIGNAGE: "FDC" MOUNTED ABOVE THE FIRE DEPARTMENT CONNECTION

WALL TYPE LEGEND

- 2 HOUR FIRE PARTITION
- 1 HOUR FIRE PARTITION
- 1/2 HOUR FIRE PARTITION
- CMU PARTITION
- NEW PARTITION



C6 STORM SHELTER
3/8" = 1'-0"

LIFE SAFETY PLAN LEGEND

SYMBOL	DESCRIPTION
ROOM / XXX X / AREA / X XX	ROOM OCCUPANCY LOAD TAG OCCUPANCY CLASSIFICATION MAX. FLOOR AREA ALLOWANCES PER OCCUPANT ROOM AREA (SQUARE FEET) WIDTH OCCUPANCY LOAD INDICATES SPACE IS SPRINKLERED (YES/NO)
XXXX / XX OCC / R: XX" / P: XX"	DOOR EGRESS TAG # OF OCCUPANTS ALLOWED TO EGRESS THRU OPENING PER CODE WIDTH REQUIRED WIDTH PROVIDED
F.E.	FIRE EXTINGUISHER ON WALL MOUNTED BRACKET.
F.E.C.	FIRE EXTINGUISHER IN CABINET.
	EXIT SIGN - SEE ELECTRICAL DRAWINGS.
	EXIT SIGN WITH EMERGENCY LIGHTS - SEE ELECTRICAL DRAWINGS.
	EMERGENCY LIGHT - SEE ELECTRICAL DRAWINGS.
6'-6"	EGRESS PATH DISTANCE OF PATH

EMERGENCY LIGHTS ARE LOCATED OVER ALL EXTERIOR EXIT DOORS - SEE ELEC. DRAWINGS.

CODE INFORMATION

PROJECT DESCRIPTION

NEW CONSTRUCTION - SPRINKLED
CONSTRUCTION TYPE V-B

NEW CONSTRUCTION OF A ONE-STORY BUILDING AND INTERIOR WORK. THE NEW BUILDING WILL INCLUDE TWO APPARATUS BAYS AND EMS HOUSE WITH DORMITORIES & KITCHEN.

APPLICABLE CODES

BUILDING CODE:	2024 INTERNATIONAL BUILDING CODE
ENERGY CODE:	2021 INTERNATIONAL ENERGY CONSERVATION CODE
MECHANICAL CODE :	2021 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE:	2018 INTERNATIONAL PLUMBING CODE
ELECTRICAL CODE:	2020 NATIONAL ELECTRIC CODE
FUEL & GAS CODE:	2021 INTERNATIONAL FUEL GAS CODE
LIFE SAFETY:	2024 NFPA 101 LIFE SAFETY CODE
FIRE CODE:	2024 INTERNATIONAL FIRE CODE
AMERICAN WITH DISABILITY ACT:	2017 ICC/ANSI A117.1 ACCESSIBILITY CODE (ASSUMED)

ALLOWABLE BUILDING HEIGHTS & AREAS

- USE GROUP: R-2 (PER IBC SECTION 310.3); S-2 (PER IBC SECTION 311.3)
- CONSTRUCTION TYPE: V-B (PER IBC SECTION 602.2)

ALLOWABLE STORIES (PER IBC TABLE 504.4):	ACTUAL STORIES
OCCUPANCIES: R-2 - 5	1
S-2 - 4	2

ALLOWABLE AREA (PER IBC TABLE 506.2):	ACTUAL AREA
OCCUPANCIES: R-2 - 16,000 SF	2,819 SF
S-2 - 26,000 SF	2,135 SF

ALLOWABLE HEIGHT (PER IBC TABLE 504.3):	ACTUAL HEIGHT
OCCUPANCIES: R-2 - 55'	25'
S-2 - 55'	25'

FIRE RESISTANCE RATING REQUIREMENTS

TYPE IIB CONSTRUCTION

STRUCTURAL FRAME:	0 HR
BEARING WALLS EXTERIOR:	0 HR
BEARING WALLS INTERIOR:	0 HR
NON-BEARING WALL & PARTITION INTERIOR:	0 HR
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS:	0 HR
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS:	0 HR

MEANS OF EGRESS

OCCUPANT LOADS: (IBC TABLE 1004.5)
NEW BUILDING
200 SF PER OCCUPANT (R-2 - RESIDENTIAL)
300 SF PER OCCUPANT (S-2 - LOW-HAZARD)

2,819 SF / 200 = 15 'R-2' OCCUPANTS
2,135 SF / 300 = 8 'S-2' OCCUPANTS
TOTAL: 23 OCCUPANTS

EXIT TRAVEL DISTANCE: (IBC TABLE 1017.2)
(R-2) 200 FT MAX (WITHOUT SPRINKLER SYSTEM)
(S-2) 300 FT MAX (WITHOUT SPRINKLER SYSTEM)

CORRIDOR RATING: (IBC TABLE 1020.1)
1 WITHOUT SPRINKLER SYSTEM

EXIT REQUIREMENTS: (IBC TABLE 1006.3.2)
2 REQUIRED
4 PROVIDED

PLUMBING REQUIREMENTS

'R-2' USE GROUP (IBC TABLE 2902.1)

1 PER 10	WATER CLOSETS (MALE)	8/10 = 1 WC
1 PER 10	WATER CLOSETS (FEMALE)	8/10 = 1 WC
1 PER 10	LAVATORIES (MALE)	8/10 = 1 LAV
1 PER 10	LAVATORIES (FEMALE)	8/10 = 1 LAV
1 PER 8	BATHS / SHOWERS (MALE)	8/8 = 1 SHOWERS
1 PER 8	BATHS / SHOWERS (FEMALE)	8/8 = 1 SHOWERS
1 PER 100	DRINKING FOUNTAINS	16/100 = 1 FOUNTAIN
1	SERVICE SINK	= 1 SERVICE SINK

'R-2' TOTAL OCCUPANTS = 15

'S-2' USE GROUP (IBC TABLE 2902.1)

1 PER 100	WATER CLOSETS (MALE)	4/100 = 1 WC
1 PER 100	WATER CLOSETS (FEMALE)	4/100 = 1 WC
1 PER 100	LAVATORIES (MALE)	4/100 = 1 LAV
1 PER 100	LAVATORIES (FEMALE)	4/100 = 1 LAV
1 PER 1000	DRINKING FOUNTAINS	8/1000 = 1 FOUNTAIN
1	SERVICE SINK	= 1 SERVICE SINK

'S-2' TOTAL OCCUPANTS = 8

TOTAL FIXTURES REQUIRED: 4 WC (2M/2F), 4 LAV (2M/2F), 2 SHOWERS (1M/1F)
1 DRINKING FOUNTAIN, 1 SERVICE SINK

TOTAL FIXTURES PROVIDED: 4 WC, 4 LAV, 3 SHOWERS, 0 DRINKING FOUNTAIN*
1 SERVICE SINK

*THIS FACILITY IS NOT OPEN TO THE PUBLIC AND HAS LOW OCCUPANCY DUE TO ROTATING SHIFTS. A DRINKING FOUNTAIN HAS NOT PROVIDED FOR THIS FACILITY.

STORM SHELTER: 2020 ICC 500

TOTAL FACILITY ACTUAL OCCUPANTS : 33 OCC (AS STORM SHELTER)

TRAVEL DISTANCE TO ICC 500 TORNADO SHELTER:
1000' MAX RECOMMENDED
60' - 0" MAX PROVIDED (FROM APP BAY)

ICC500 501.1.1 OCCUPANT DENSITY: STANDING: 1 OCCUPANT PER 5 SF

ROOM	USEABLE AREA	OCCUPANTS
DECON TOILET	62 SF	13
DECON LAUNDRY	+ 67 SF	+ 14
	131 SF	27

TOTAL USEABLE SF = 155 SF
WHEELCHAIRS: 1:200 OCCUPANTS = 131/200 = 1 OCCUPANTS
WHEELCHAIR SF: 10 SF / OCC. = 1 X 10 = 10 SF
W/O WHEELCHAIR: 131 SF / 5 SF = 27 OCCUPANTS
WITH WHEELCHAIR: 10 SF = 1 OCCUPANT DD

TOTAL STORM SHELTER OCCUPANTS = 26 OCCUPANTS

ICC500 503.1, 503.2, 503.3, 803.4: LOCATIONS OF ICC500 COMPLIANT DOORS NOTED ON STORM SHELTER PLAN AND DOOR SCHEDULE. SEE DOOR HARDWARE AND DOOR SPECIFICATIONS FOR LATCHING AND IMPACT REQUIREMENTS.

ICC500 504, 508: SEE SIGNAGE PLANS AND LIFE SAFETY PLANS
ICC500 601.1: 2 HR FIRE BARRIER WHERE ABUTTING BUILDING
ICC500 602.1: (1) FIRE EXTINGUISHER REQUIRED; (1) PROVIDED
ICC500 702.3: 1 TOILETS FOR FIRST 50 OCCUPANTS; 42/50 = 1 WC REQ'D; (1) PROVIDED
ICC500 702.3: LAVATORY NOT REQUIRED IF <50 OCCUPANTS
ICC500 702.9: (1) FIRST AID KIT PROVIDED (ANSI/SEAI Z308.1) CLASS A

STORM SHELTER SITE

1. STORM SHELTER HAS NOT BEEN DESIGNED WITHIN AN AREA ON THE SITE SUSCEPTIBLE TO FLOODING.
2. STORM SHELTER HAS NOT BEEN DESIGNED WITHIN AN AREA PROXIMITY TO HAZARDOUS MATERIAL.
3. STORM SHELTER IS LOCATED OUTSIDE A HIGH RISK FLOOD HAZARD AREA.

STATE OF MISSOURI ROY A. MANGAN NUMBER A-6661 ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
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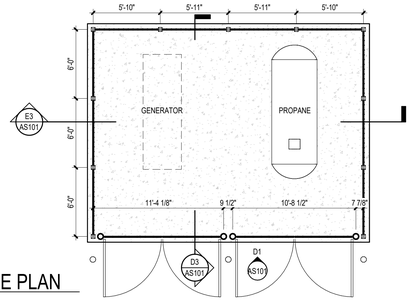
PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
1	04/25/2026	PERMIT DOCUMENTS
2	10/02/2026	PERMIT DOCUMENTS - REVISED
3	10/16/2026	BIDDING DOCUMENTS

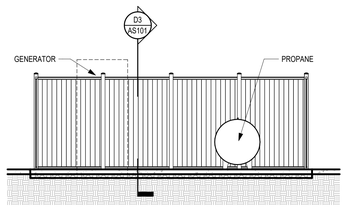
LIFE SAFETY PLAN

Project No. 25083
Sheet No. A011
Date 10/16/2026

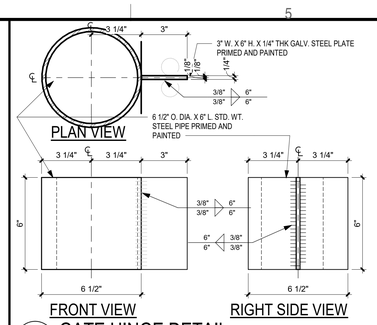
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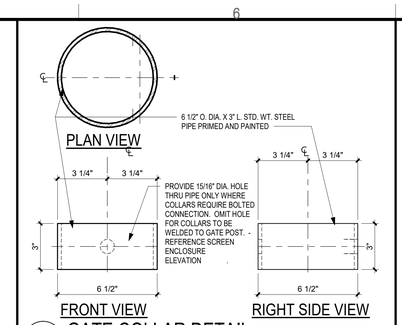
E1 UTILITY ENCLOSURE PLAN
3/16" = 1'-0"



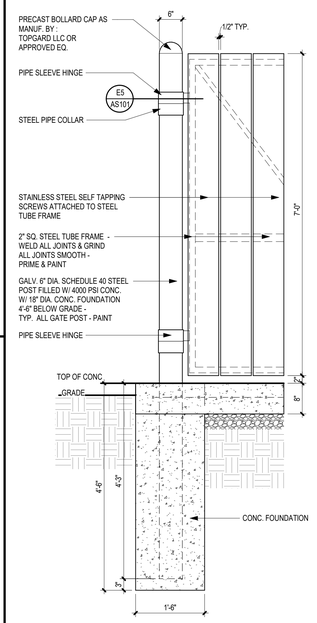
E3 UTILITY ENCLOSURE SECTION FRONT
3/16" = 1'-0"



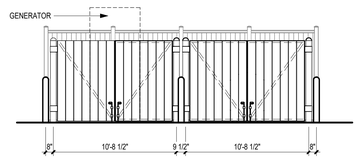
E5 GATE HINGE DETAIL
3" = 1'-0"



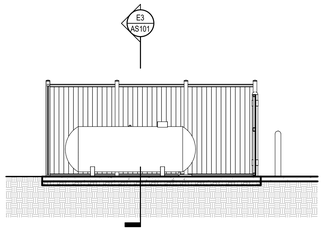
E6 GATE COLLAR DETAIL
3" = 1'-0"



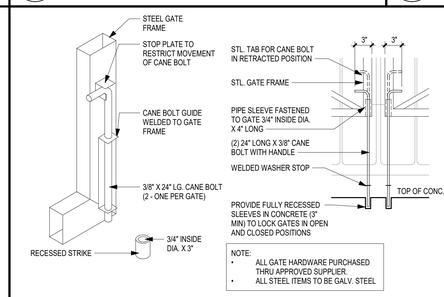
D7 GATE POST DETAIL
3/4" = 1'-0"



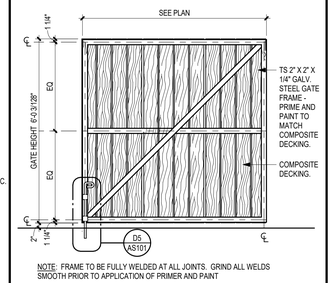
D1 SITE ENCLOSURE ELEVATION FRONT
3/16" = 1'-0"



D3 UTILITY ENCLOSURE SECTION SIDE
3/16" = 1'-0"

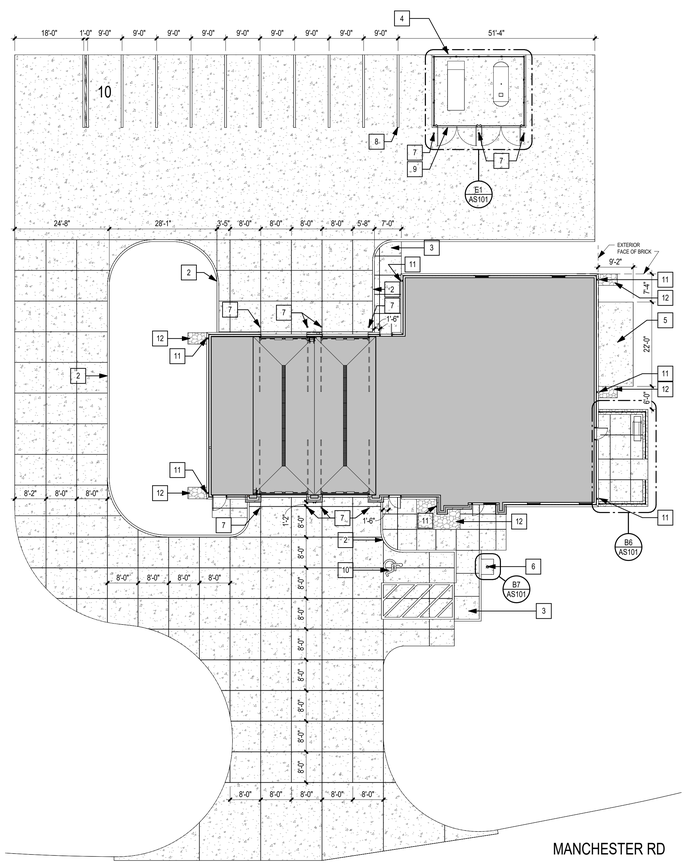


D5 CANE BOLT DETAIL
1/2" = 1'-0"



NOTE: FRAME TO BE FULLY WELDED AT ALL JOINTS. GRIND ALL WELDS SMOOTH PRIOR TO APPLICATION OF PRIMER AND PAINT

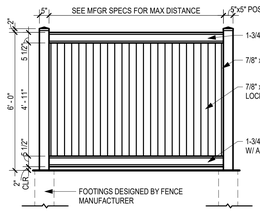
D6 GATE ELEVATION DETAIL
1/2" = 1'-0"



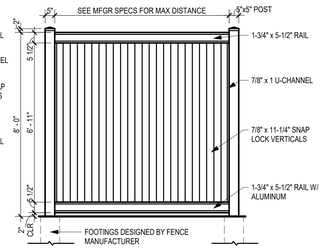
A1 ARCHITECTURAL SITE PLAN
1/16" = 1'-0"

KEYED NOTES ARCH. SITE PLAN

MARK	DESCRIPTION
2	CONCRETE CURB. TYPICAL - SEE CIVIL DWGS
3	5' WIDE (MIN.) CONCRETE SIDEWALK & ACCESSIBLE RAMPS @ DRIVES - TYP. SEE CIVIL DWGS
4	CONCRETE PAD FOR BACKUP GENERATOR - SEE ELEC. DWGS - VERIFY ACTUAL PAD SIZE & REQUIREMENTS W/ GENERATOR MANFR PRIOR TO INSTALLATION
5	CONCRETE PAD W/ DRAINS FOR MECH EQUIPT - SEE MECH. DWGS. FOR LAYOUT & MANUFACTURERS' REQUIREMENTS FOR CONCRETE PAD SIZING
6	FLAG POLE - SEE CIVIL & ELEC DWGS. COORDINATE LOCATION W/ NEW & EXISTING UTILITIES
7	SITE BOLLARD
8	PARKING STRIPING - SEE CIVIL DWGS
9	UTILITY SITE ENCLOSURE. - SEE ASSOCIATED DETAILS
10	ADA PARKING STALL SIGN - SEE CIVIL DWGS
11	4" W x 3" D PRE-FINISHED METAL DOWNSPOUT. SEE APPLICABLE DETAILS AND REFERENCE EXTERIOR BUILDING MATERIALS LEGEND.
12	DECORATIVE LANDSCAPE BEACH PEBBLE (1"-2") OVER HEAVY-DUTY COMMERCIAL-GRADE LANDSCAPE FABRIC, PINNED W/ METAL LANDSCAPE STAPLES.



PATIO ENCLOSURE ELEVATION



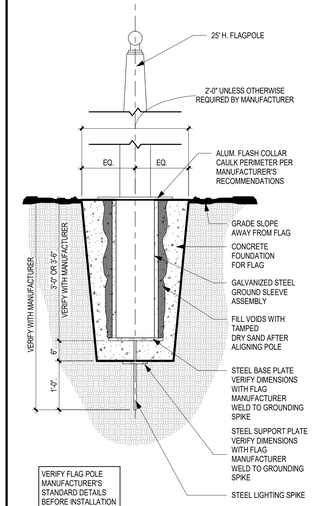
UTILITY ENCLOSURE ELEVATION

A4 VINYL FENCE ELEVATION DETAILS
3/8" = 1'-0"

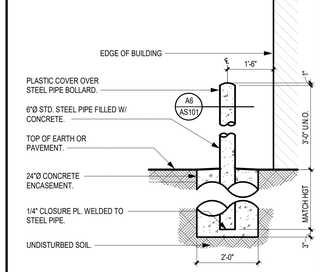
A6 BOLLARD PLAN DETAIL (TYP)
1/2" = 1'-0"

FINISHED EDGE OF DOOR OPENING
KEEP BOLLOARD 1" OUT PASS THE FINISHED EDGE OF DOOR OPENING
1"
2"
1'-6"
EDGE OF BUILDING
6" Ø STD. STEEL PIPE FILLED W/ CONCRETE. PAINT EXPOSED STEEL PIPE AND CONC. CAP YELLOW.

NOTE : PIPE GUARD SUPPLIED BY STEEL CONTRACTOR & INSTALLED BY G.C. - G.C. TO PROTECT TRANSFORMERS, WALL VALVES, METERS, HYDRANTS & OTHER STRUCTURES AS REQ'D. PIPE GUARDS TO BE INSTALLED UPON COMPLETION OF ITEMS TO BE PROTECTED.



B7 FLAGPOLE BASE DETAIL
3/4" = 1'-0"



A7 BOLLARD SECTION DTL (TYP)
1/2" = 1'-0"

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STATE OF MISSOURI
ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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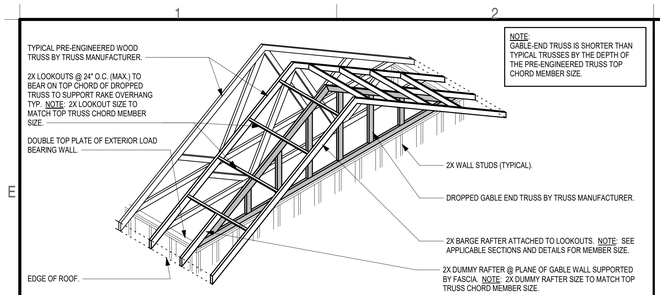
PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Revision	Date
	PERMIT DOCUMENTS	04/15/2026
	PERMIT DOCUMENTS - REVISED	10/02/2026
	BIDDING DOCUMENTS	10/16/2026

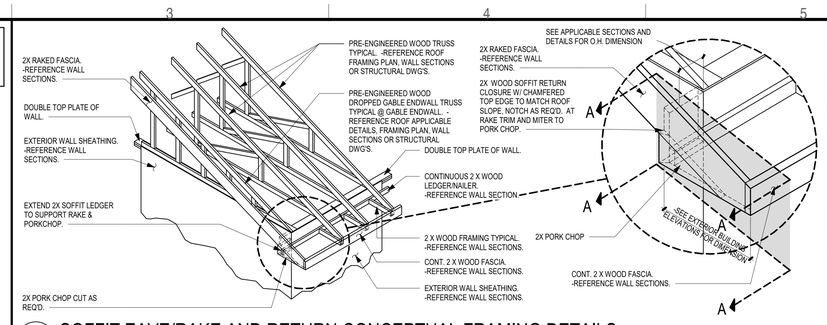
ARCHITECTURAL SITE PLAN

Project No. 25083
Sheet No. AS101
Date 10/16/2026

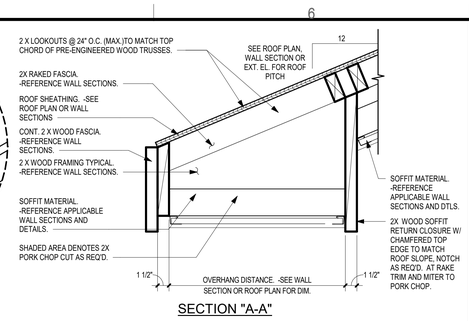
10/16/2026 2:33:38 PM
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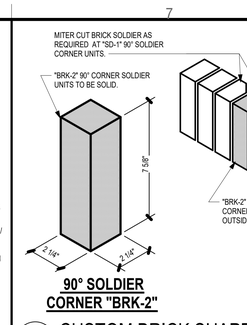
E1 FRAMING SCHEMATIC - DROPPED GABLE ENDWALL TRUSS DETAIL
1/2" = 1'-0"



E3 SOFFIT EAVE/RAKE AND RETURN CONCEPTUAL FRAMING DETAILS
1 1/2" = 1'-0"

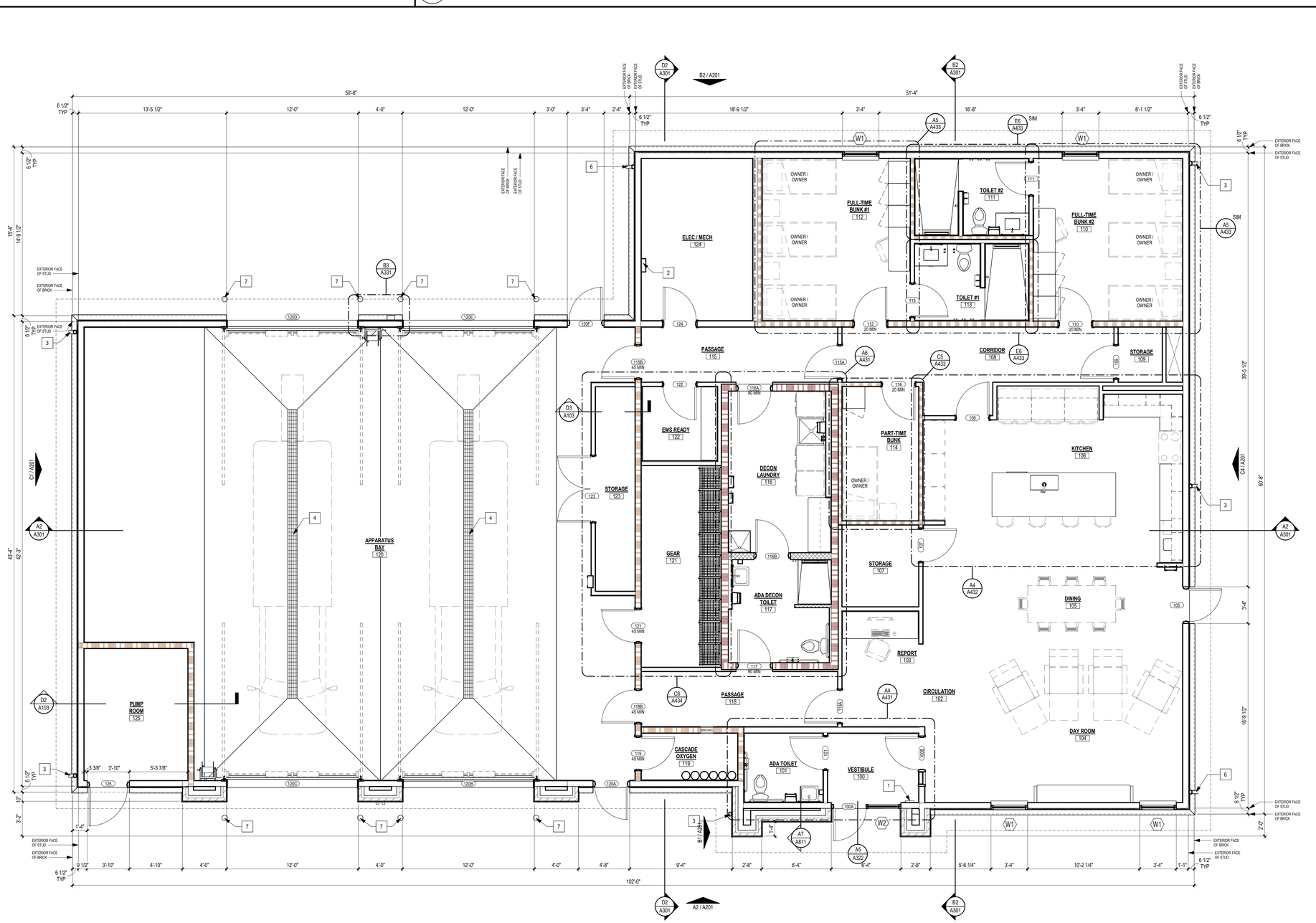


SECTION "A-A"



90° SOLDIER CORNER "BRK-2"

E7 CUSTOM BRICK SHAPES
3" = 1'-0"



A1 DIMENSION FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL CASEWORK, SHELVING, AND EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS. ANY WOOD BLOCKING SHALL BE FIRE TREATED.
3. ALL DIMENSIONS ARE TO THE FINISH FACE OF PARTITIONS AND PERIMETER WALLS UNLESS NOTED OTHERWISE.
4. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS SCHEDULED IN THE FINISH FLOOR PLAN.
5. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
6. INTENT OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK IS REFLECTED ON THE DRAWINGS. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR FULL EXTENT OF WORK.
7. PROVIDE 5/8" THK. MOLD & MOISTURE RESISTANT GYPSUM WALL BOARD TO ALL APPARATUS BAY WALLS AND BEHIND WET AREAS WHERE CEMENTITIOUS BACKER BOARD DOES NOT OCCUR.

KEYED NOTES FLOOR PLAN

MARK	DESCRIPTION
1	FIRE ALARM ANNUNCIATOR PANEL
2	MAIN FIRE ALARM PANEL
3	DOWNSPOUT ONTO SPLASH BLOCK
4	TRENCH DRAIN - SEE PLUMBING DRAWINGS
6	DOWNSPOUT THAT TIES INTO STORM DRAIN
7	SITE BOLLARD

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STATE OF MISSOURI ROY A. MANGAN NUMBER A-6661 ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

[Consultants]

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	10/16/2026	PERMIT DOCUMENTS
	10/13/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

OVERALL FLOOR PLAN

Project No. 25083
Sheet No. A101
Date 10/16/2026

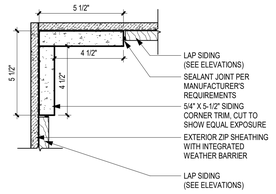
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FLOOR PLAN GENERAL NOTES

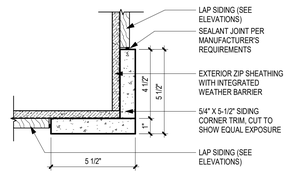
1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL CASEWORK, SHELVING, AND EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS. ANY WOOD BLOCKING SHALL BE FIRE TREATED.
3. ALL DIMENSIONS ARE TO THE FINISH FACE OF PARTITIONS AND PERIMETER WALLS UNLESS NOTED OTHERWISE.
4. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS SCHEDULED IN THE FINISH FLOOR PLAN.
5. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
6. INTENT OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK IS REFLECTED ON THE DRAWINGS. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR FULL EXTENT OF WORK.
7. PROVIDE 5/8" THK. MOLD & MOISTURE RESISTANT GYPSUM WALL BOARD TO ALL APPARATUS BAY WALLS AND BEHIND WET AREAS WHERE CEMENTITIOUS BACKER BOARD DOES NOT OCCUR.

KEYED NOTES FLOOR PLAN

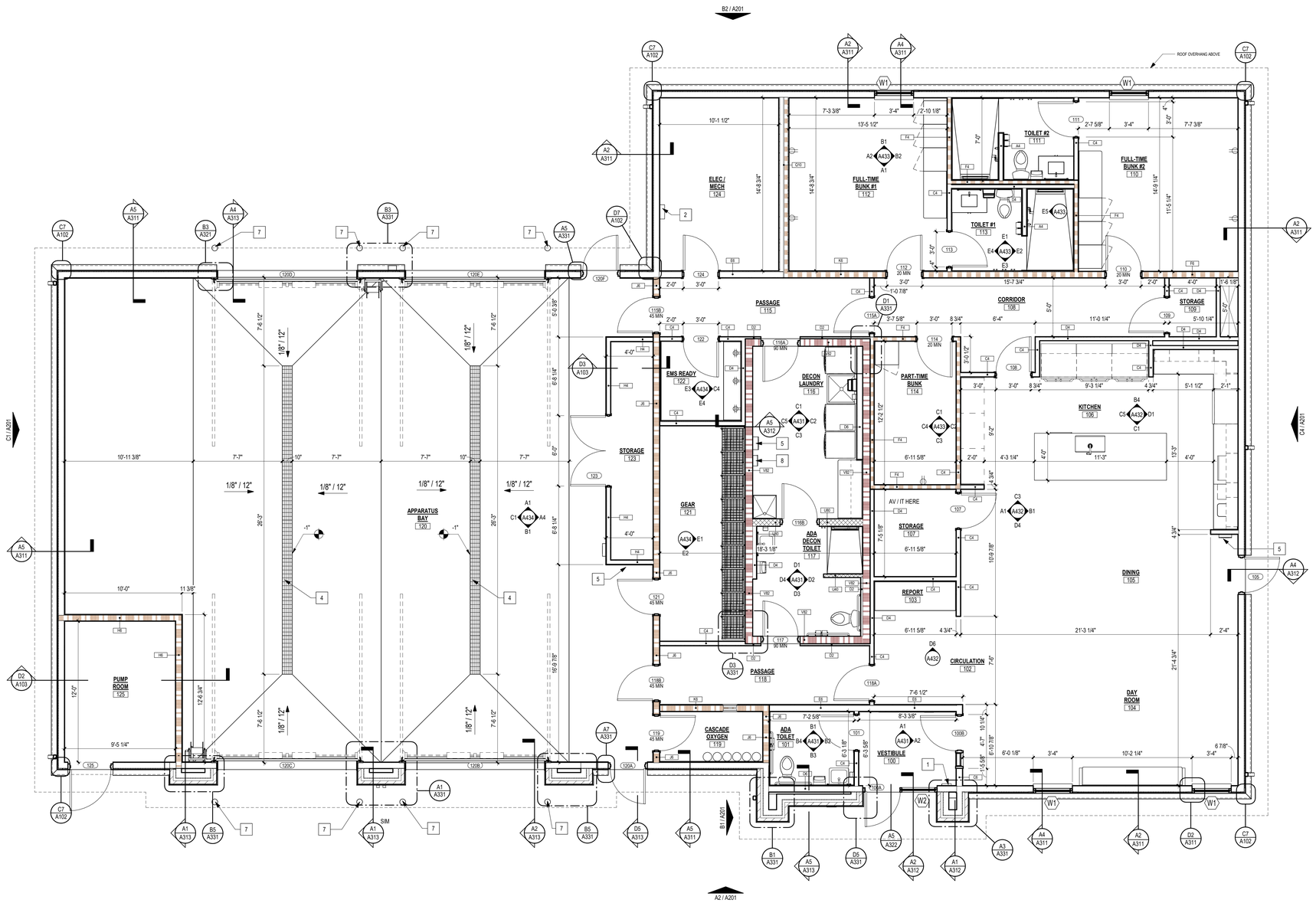
MARK	DESCRIPTION
1	FIRE ALARM ANNUNCIATOR PANEL
2	MAIN FIRE ALARM PANEL
4	TRENCH DRAIN - SEE PLUMBING DRAWINGS
5	FIRE EXTINGUISHER
7	SITE BOLLARD
8	FIRST AID KIT



D7 TYPICAL CEMENT BOARD INTERIOR CORNER DETAIL
3" = 1'-0"



C7 TYPICAL CEMENT BOARD EXTERIOR CORNER DETAIL
3" = 1'-0"



A1 ANNOTED FLOOR PLAN
1/4" = 1'-0"

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STATE OF MISSOURI
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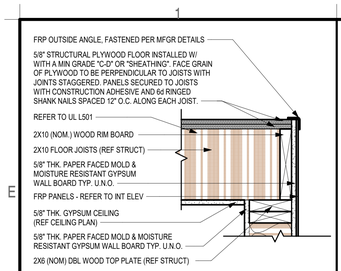
No.	Revision	Date
1	PERMIT DOCUMENTS	10/02/2026
2	PERMIT DOCUMENTS - REVISED	10/02/2026
3	BIDDING DOCUMENTS	10/16/2026

ANNOTATED FLOOR PLAN

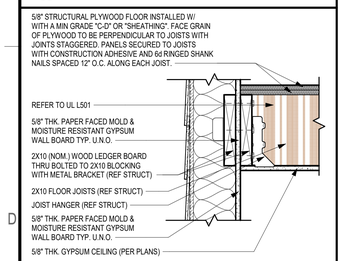
Project No. 25083
Sheet No. A102
Date 10/16/2026

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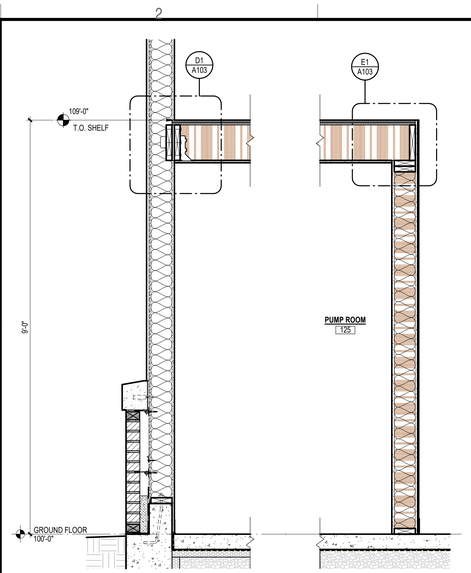
SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 1" 6" 3" 0
SCALE: 1" = 1'-0" 2" 1" 6" 0
SCALE: 3/4" = 1'-0" 3" 2" 1" 0
SCALE: 1/2" = 1'-0" 4" 2" 1" 0
SCALE: 3/8" = 1'-0" 8" 4" 2" 0
SCALE: 1/4" = 1'-0" 8" 4" 2" 0
SCALE: 1/8" = 1'-0" 16" 8" 4" 0
SCALE: 3/32" = 1'-0" 24" 16" 8" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0



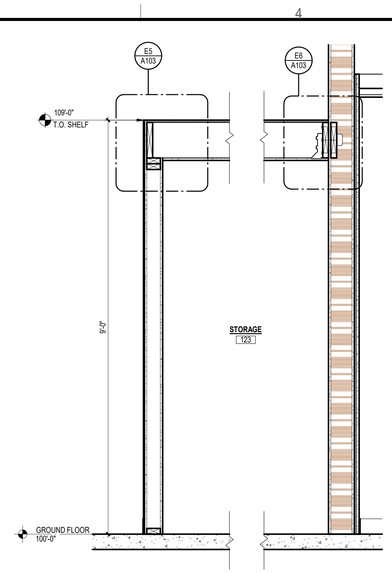
E1 PUMP ROOM CORNER DTL
1 1/2" = 1'-0"



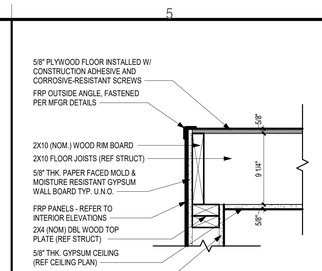
D1 PUMP ROOM WALL DTL
1 1/2" = 1'-0"



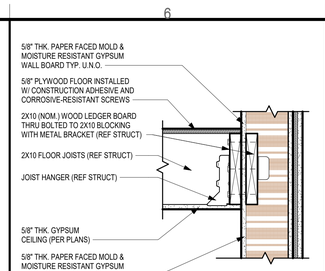
D2 SECTION THRU PUMP ROOM
3/4" = 1'-0"



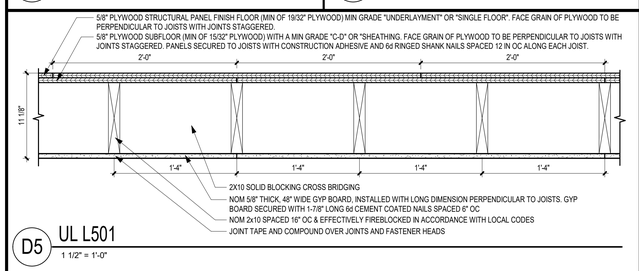
D3 SECTION THRU PLYWOOD SHELF
3/4" = 1'-0"



E5 PLYWOOD SHELF CORNER DTL
1 1/2" = 1'-0"



E6 PLYWOOD SHELF WALL DTL
1 1/2" = 1'-0"



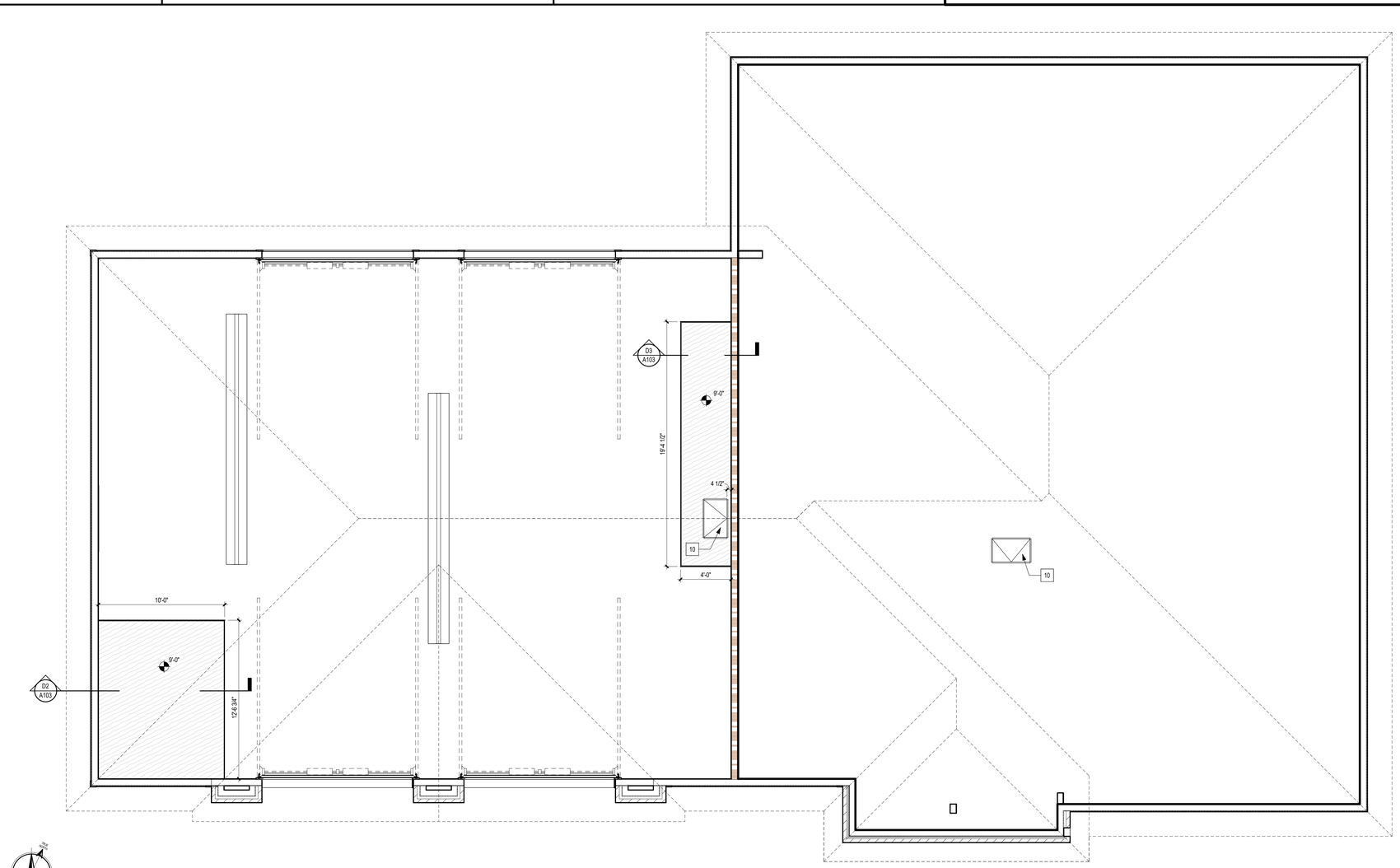
D5 UL L501
1 1/2" = 1'-0"

CEILING PLAN GENERAL NOTES

1. INSTALL ACOUSTIC SOUND BATT INSULATION OVER ALL PARTITIONS ABOVE CEILING TO 24" EA. SIDE OF PARTITION, TYP.
2. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.
3. LIGHT FIXTURES, EXIT SIGNS, FIRE STROBES/CHIMES, ETC. TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
4. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN A RETURN AIR PLENUM.
5. ALL CEILING, BULKHEAD, AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
6. PAINT ALL GYPSUM BOARD SOFFITS AND CEILINGS. REFERENCE REFLECTED CEILING PLAN.
7. ALL FLOATING "CLOUD" CEILINGS ARE TO BE HUNG WITH AIRCRAFT CABLE (NO EXCEPTIONS) IF APPLICABLE TO THIS PROJECT.
8. SUPPLY AND INSTALL SOUND BOOTS ON ALL DIFFUSERS OPEN TO THE CEILING PLENUM, TYP.
9. SHOULD ANY CONFLICT ARISE BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
10. REFERENCE MECHANICAL DRAWINGS FOR BALANCE OF MECHANICAL INFORMATION (i.e. SUPPLY DIFFUSERS, RETURN AIR GRILLES, ETC.).
11. REFERENCE ELECTRICAL DRAWINGS FOR BALANCE OF LIGHTING INFORMATION. NOTE: ALL FIXTURES LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
12. WHERE SPRINKLERS ARE USED, REFERENCE FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS. THIS DRAWING IS FOR COORDINATION CONCEPTS ONLY. **NOTE:** ALL SPRINKLER HEADS LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
13. WHERE SPRINKLER SYSTEMS ARE USED PROVIDE CONCEALED WHITE SPRINKLERS AT ALL GYPSUM BOARD CEILINGS AND SOFFITS UNLESS NOTED OTHERWISE
14. FIRE PROTECTION DESIGN-BUILD CONTRACTOR TO REWORK EXISTING/INSTALL NEW SPRINKLER LINES AND DEVICES IN THE AREA OF WORK TO PROVIDE PROPER COVERAGE PER GOVERNING CODES. SPRINKLER HEADS TO MATCH BUILDING STANDARD. VERIFY WORK REQUIRED.
15. PROVIDE 5/8" THK. MOLD & MOISTURE RESISTANT GYPSUM BOARD TO ALL APPARATUS BAY CEILINGS.

KEYED NOTES FLOOR PLAN

MARK	DESCRIPTION
10	22" x 30" ATTIC ACCESS PANEL, LOCATED BETWEEN TRUSSES



A1 OVERALL ATTIC PLAN
1/4" = 1'-0"

STATE OF MISSOURI
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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
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	10/16/2026	BIDDING DOCUMENTS

OVERALL ATTIC PLAN

Project No. 25083

Sheet No. A103

Date 10/16/2026

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SEISMIC BRACING NOTES:

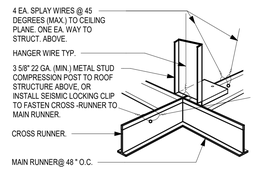
1. ALL SUSPENSION SYSTEM COMPONENTS TO PROVIDED FROM A SINGLE ICC-ES APPROVED MANUFACTURER.
2. ALL BRACING WIRE TO BE ATTACHED PARALLEL TO THE COMPONENT AND AT MAX. OF 45 DEGREES TO THE PLANE OF THE CEILING.
3. ALL BRACING WIRES TO BE TAUT AND TIED BOTH ENDS W/ A MIN. OF 3 TURNS.
4. SECURE ALL WIRES TO STRUCTURE ABOVE. DO NOT SECURE TO PIPES,DUCTS, CONDUITS, ETC.
5. RING NAILS SHALL BE INSTALLED AT ALL COMPONENT INTERSECTIONS W/ THE HORIZONTAL STRUT AT UNATTACHED WALLS.
6. THE HORIZONTAL SPACER BAR SHALL RUN CONTINUOUS AT ALL PERIMETERS NOT ATTACHED TO THE WALL ANGLE.
7. INSTALLATION MUST CONFORM TO CISCA RECOMMENDATIONS.
8. MIN. HEAVY DUTY GRID SYSTEM.
9. SEE CEILING SYSTEM SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
10. WHERE WIRE MUST BEAR AGAINST PIPES AND DUCTS, APPLY TAPE TO PIPES AND DUCTS.
11. SEISMICALLY BRACE LIGHT FIXTURES, DIFFUSERS, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
12. WALL ANGLE TO BE MIN. 7/8"x 7/8" OR 15/16" X15/16" AND PROVIDE ICC-ES APPROVED SEISMIC CLIP IN ALL ROOM AREAS.

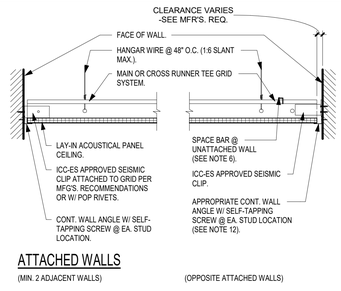
NOTE:
COMPLY WITH IBC 2009 SECTION 1613 (CATEGORY D) AND CISCA RECOMMENDATIONS FOR DIRECT HUNG ACOUSTICAL TILE AND LAY IN PANELS. NOTE THAT THE FOLLOWING DOES NOT APPLY TO CEILING AREAS OFF 1445F OR LESS SURROUNDED BY PARTITIONS THAT CONNECT DIRECTLY TO THE STRUCTURE ABOVE. NOTE THAT REQUIREMENTS FOR SECSMIC DESIGN D PROHIBIT THE USE OF POWER DRIVER FASTENERS FOR BRACING COMPONENTS PULL OUT TESTING OF FASTENERS IS REQUIRED.

NOTE:
PANEL POINTS OCCUR 6'-0" (MAX.) FROM PERIMETER AND 12'-0" O.C. EACH WAY.

ALL SEISMIC RESTRAINT BRACING SHALL COMPLY WITH ASTM E 580.

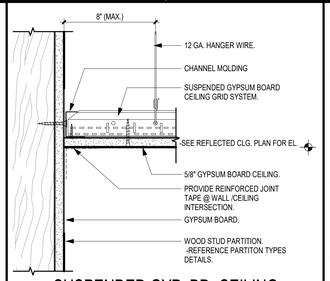
APPROVED ICC-ES MANUFACTURER'S AMD TESTS:
ARMSTRONG - ICC ESR-1308
CHICAGO METALLIC - ICC ESR=2728
USG - ICC ESXR-1222





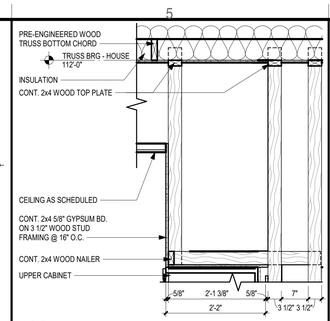
ATTACHED WALLS
(MIN. 2 ADJACENT WALLS) (OPPOSITE ATTACHED WALLS)

E1 TYPICAL SEISMIC RESTRAINT DETAIL FOR ACOUSTICAL LAY-IN CEILINGS AT ZONES D, E, AND F
N.T.S.

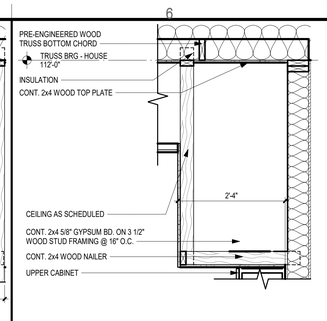


E4 SUSPENDED GYP. BD. CEILING DETAIL @ GYP. BD. PARTITION
3" = 1'-0"

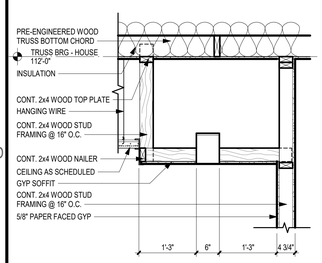
09.50.00. 12 SUS GYP CLG DET _WD S_ 1W X 1H



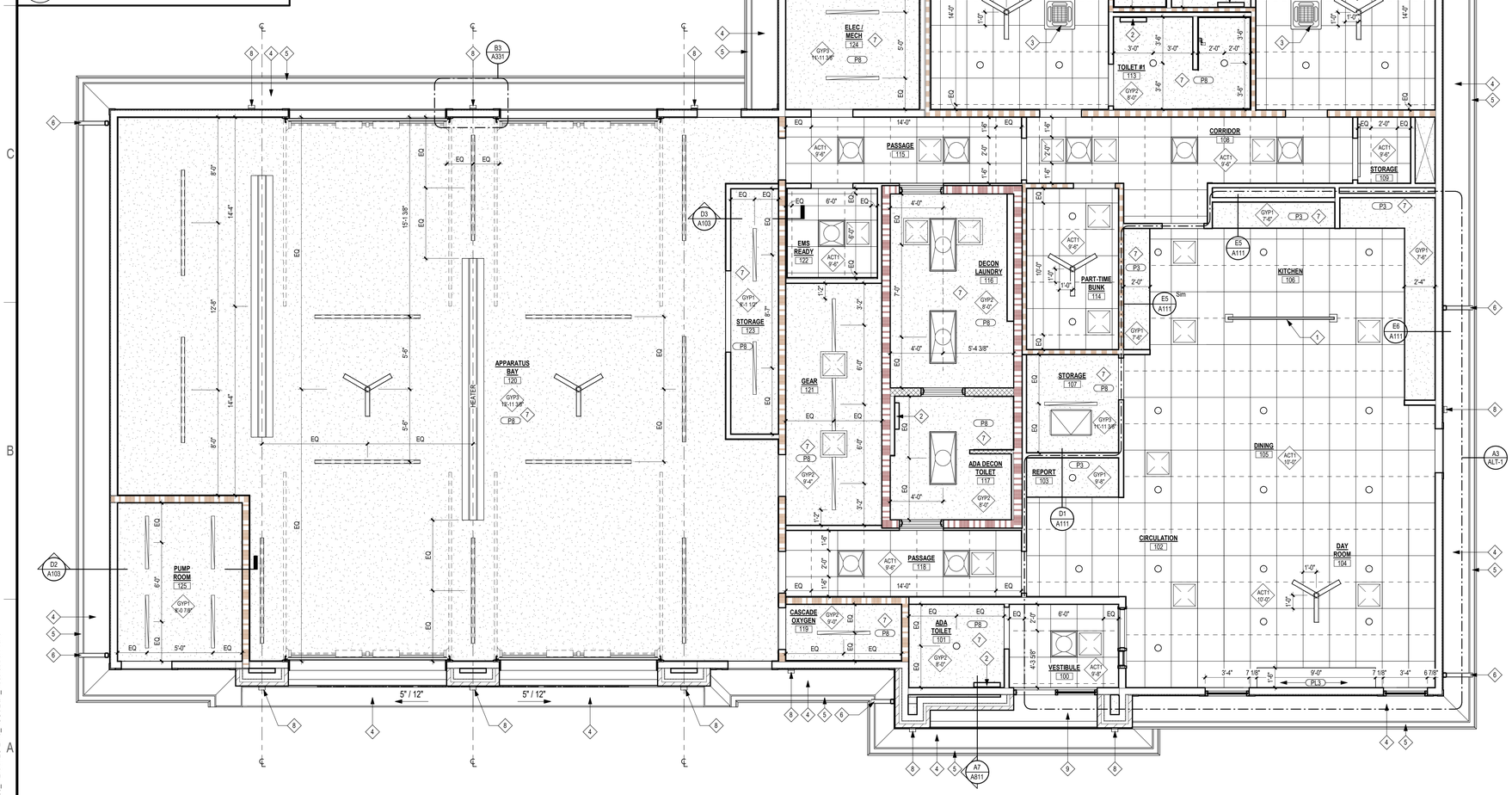
E5 KITCHEN DEEP SOFFIT DETAIL
3/4" = 1'-0"



E6 KITCHEN SMALL SOFFIT DETAIL
3/4" = 1'-0"



D1 REPORT SOFFIT DETAIL
3/4" = 1'-0"



A1 REFLECTED CEILING PLAN
1/4" = 1'-0"

CEILING PLAN GENERAL NOTES

1. INSTALL ACOUSTIC SOUND BATT INSULATION OVER ALL PARTITIONS ABOVE CEILING TO 24" EA. SIDE OF PARTITION, TYP.
2. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.
3. LIGHT FIXTURES, EXIT SIGNS, FIRE STROBES/CHIMES, ETC. TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
4. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN A RETURN AIR PLENUM.
5. ALL CEILING, BULKHEAD, AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
6. PAINT ALL GYPSUM BOARD SOFFITS AND CEILINGS. REFERENCE REFLECTED CEILING PLAN.
7. ALL FLOATING "CLOUD" CEILINGS ARE TO BE HUNG WITH AIRCRAFT CABLE (NO EXCEPTIONS) IF APPLICABLE TO THIS PROJECT.
8. SUPPLY AND INSTALL SOUND BOOTS ON ALL DIFFUSERS OPEN TO THE CEILING PLENUM, TYP.
9. SHOULD ANY CONFLICT ARISE BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
10. REFERENCE MECHANICAL DRAWINGS FOR BALANCE OF MECHANICAL INFORMATION (i.e. SUPPLY DIFFUSERS, RETURN AIR GRILLES, ETC.).
11. REFERENCE ELECTRICAL DRAWINGS FOR BALANCE OF LIGHTING INFORMATION. NOTE: ALL FIXTURES LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
12. WHERE SPRINKLERS ARE USED, REFERENCE FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS. THIS DRAWING IS FOR COORDINATION CONCEPTS ONLY. **NOTE:** ALL SPRINKLER HEADS LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
13. WHERE SPRINKLER SYSTEMS ARE USED PROVIDE CONCEALED WHITE SPRINKLERS AT ALL GYPSUM BOARD CEILINGS AND SOFFITS UNLESS NOTED OTHERWISE
14. FIRE PROTECTION DESIGN-BUILD CONTRACTOR TO REWORK EXISTING/INSTALL NEW SPRINKLER LINES AND DEVICES IN THE AREA OF WORK TO PROVIDE PROPER COVERAGE PER GOVERNING CODES. SPRINKLER HEADS TO MATCH BUILDING STANDARD. VERIFY WORK REQUIRED.
15. PROVIDE 5/8" THK. MOLD & MOISTURE RESISTANT GYPSUM BOARD TO ALL APPARATUS BAY CEILINGS.

CEILING PLAN LEGEND

NOTES:
- SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.

	SECOND LOOK (SIMULATED 2'X2' PANEL) 2' X 4' LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM.
	PAINTED SUSPENDED 5/8" FLAT GYPSUM BOARD CEILING ON METAL SUSPENSION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
	RECESSED LAY-IN LIGHT FIXTURE 2' x 2' OR 2' x 4' AS SHOWN
	SURFACE MOUNTED LINEAR LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	CEILING MOUNTED FAN
ACT1	SECOND LOOK (SIMULATED 2'X2' PANEL) 2' X 4' LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM.
GYP1	PAINTED 5/8" FLAT GYPSUM BOARD CEILING ON 2X WOOD FRAMING. PROVIDE APPLICABLE DRAFT & FIRE STOPPING AS REQUIRED.
GYP2	PAINTED SUSPENDED 5/8" FLAT GYPSUM BOARD CEILING ON METAL SUSPENSION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
GYP3	PAINTED 5/8" FLAT GYPSUM BOARD CEILING DIRECT CONNECTED TO BOTTOM CHORD OF TRUSS.
P3	PAINT – GYP BD. CEILINGS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, FLAT COLOR: SW7005 PURE WHITE
P4	PAINT – WALLS – ACCENT WALL OFFICE & BUNKS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, EGGSHELL COLOR: SW7018 DOVETAIL
P8	PAINT – APP BAY CLGS, DECON CLGS MFGR: SHERWIN WILLIAMS SERIES: EPOXY, FINISH: SEMI GLOSS COLOR: SW7005 PURE WHITE

KEYED NOTES REF. CLG. PLAN

MARK	DESCRIPTION
1	SUSPENDED LINEAR PENDANT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
2	WALL MOUNTED LIGHT SCONCE - REFER ELECTRICAL
3	4-WAY CEILING CASSETTE- REFER MEP
4	VENTEDSOFFIT PANELS (24" WIDE)
5	6" W x 6" H PRE-FINISHED METAL GUTTER, OCOEE PROFILE. SEE APPLICABLE DETAILS AND REFERENCE EXTERIOR BUILDING MATERIALS LEGEND.
6	4" W x 3" D PRE-FINISHED METAL DOWNSPOUT. SEE APPLICABLE DETAILS AND REFERENCE EXTERIOR BUILDING MATERIALS LEGEND.
7	GYP BOARD CEILINGS, PAINT COLOR AS INDICATED
8	EXTERIOR WALL LIGHT - SEE ELEVATION FOR MOUNTING HEIGHT
9	SOF-2 UNVENTED SOFFIT PANELS

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Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

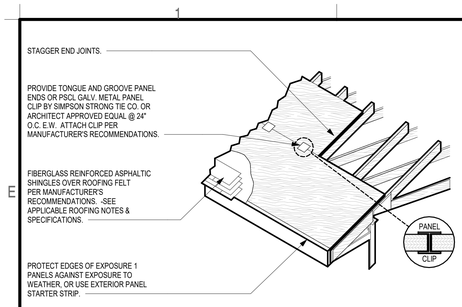
No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

OVERALL CEILING PLAN & DETAILS

Project No. 25083
Sheet No. A111
Date 10/16/2026

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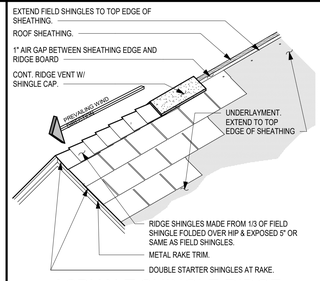
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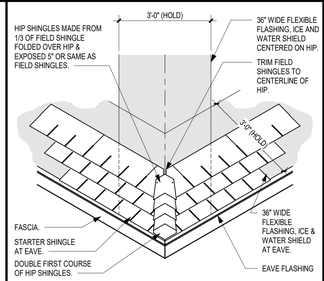
E1 SCHEMATIC ROOFING DETAIL
N.T.S

NOTES:

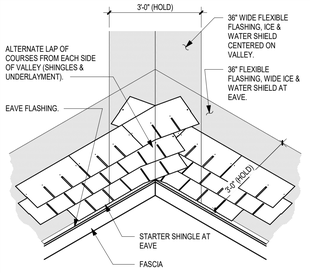
1. COVER SHEATHING AS SOON AS POSSIBLE WITH ROOFING FELT FOR EXTRA PROTECTION AGAINST EXCESSIVE MOISTURE PRIOR TO ROOFING APPLICATION.
2. FOR PITCHED ROOFS, PLACE SCREENED SURFACE OR SIDE WITH SKID-RESISTANT COATING UP IF OSB PANELS ARE USED IN LIEU OF PLYWOOD. KEEP ROOF SURFACE FREE OF DIRT, SAWDUST AND DEBRIS, AND WEAR SKID-RESISTANT SHOES WHEN INSTALLING ROOF SHEATHING.
3. FOR BUILDINGS WITH CONVENTIONALLY FRAMED ROOFS (TRUSSES OR RAFTERS), LIMIT THE LENGTH OF CONTINUOUS SECTIONS OF ROOF AREA TO 80 FEET MAXIMUM DURING CONSTRUCTION, TO ALLOW FOR ACCUMULATED EXPANSION IN WET WEATHER CONDITIONS. OMIT ROOF SHEATHING PANELS IN EACH COURSE OF SHEATHING BETWEEN SECTIONS, AND INSTALL "FILL-IN" PANELS LATER TO COMPLETE ROOFDECK INSTALLATION PRIOR TO APPLYING ROOFING.
4. WHEN USING ROOF CLIPS ALLOW AN 1/8" GAP BETWEEN CAP AT ALL EDGE AND END JOINTS UNLESS OTHERWISE INDICATED BY PANEL MANUFACTURER



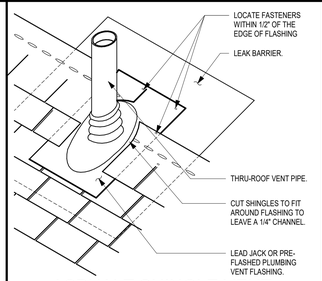
E3 ASPHALT SHINGLE RIDGE FLASHING DETAIL
N.T.S.



E4 ASPHALT SHINGLE HIP FLASHING DETAIL
N.T.S.



E5 ASPHALT SHINGLE VALLEY FLASHING DETAIL
N.T.S.



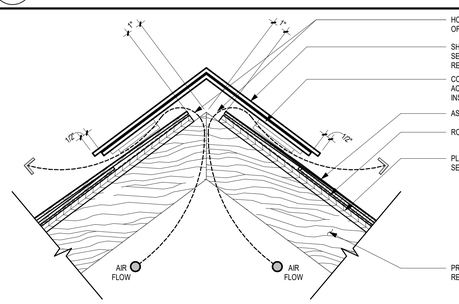
E6 ASPHALT SHINGLE VENT PENETRATION FLASHING DET
N.T.S.

ROOF PLAN GENERAL NOTES

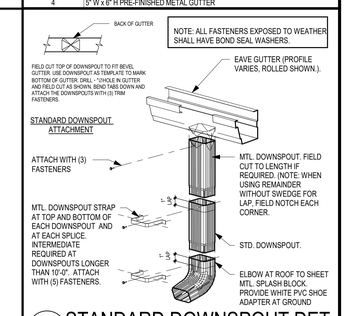
1. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL PENETRATIONS WITH ALL MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AND TRADES.
2. CONTRACTOR SHALL COORDINATE LOCATION OF DOWNSPOUTS WITH CIVIL PLANS.
3. IN THE EVENT OF CONFLICT, ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER CIVIL DRAWINGS FOR LOCATION AND QUANTITY OF DOWNSPOUTS.
4. REFER TO STRUCTURAL DRAWINGS FOR MINIMUM ROOF SHEATHING REQUIREMENTS.
5. SEE APPLICABLE UL ASSEMBLIES AS DESCRIBED ELSEWHERE IN THESE DRAWINGS FOR REQUIREMENTS DESCRIBED THEREIN. UL REQUIREMENTS OR DETAILING SHALL TAKE PRECEDENCE SHOULD ANY DISCREPANCIES ARISE.
6. GENERAL CONTRACTOR SHALL ENSURE DESIGN VENTILATION REQUIREMENT DESCRIBED HEREIN TO BE MET IF SUBSTITUTIONS OF MATERIAL TYPES AND QUANTITIES ARE SUBMITTED AND APPROVED BY THE ARCHITECT. GC ASSUMES RESPONSIBILITY FOR TYPE, LOCATION, ARRANGEMENT AND QUANTITIES FOR MEETING THESE REQUIREMENTS.
7. SEE REFLECTED CEILING PLAN FOR EXTENT OF SOFFIT AREAS. GC TO PROVIDE LAYOUT OF SOFFIT AREA FOR INTAKE AIR, SIZED AND EQUALLY DISTRIBUTED PER CALCULATIONS DESCRIBED ELSEWHERE IN THESE DOCUMENTS.UMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES ROOF PLAN

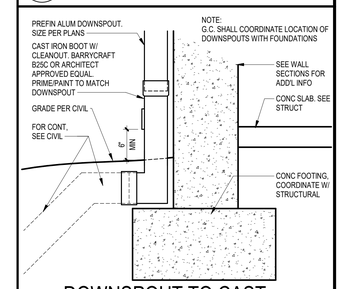
MARK	DESCRIPTION
1	24" DIAMETER STATIC ATTIC ROOF VENT.
2	CONTINUOUS 11" W. CORA-V-VENT RIDGE VENT V600 WITH CAP SHINGLES, OR ARCHITECT APPROVED EQUAL
3	FIBERGLASS ASPHALT SHINGLES
4	5" W x 6" H PRE-FINISHED METAL GUTTER



D1 RIDGE VENT DETAIL FOR ASPHALT SHINGLE ROOFS
3" = 1'-0"



D7 STANDARD DOWNSPOUT DET.
N.T.S.
07.71.23.01 MTL GUTTER DET



C7 DOWNSPOUT TO CAST IRON BOOT DET.
N.T.S.

ATTIC VENTILATION CALCULATIONS

ATTIC & ROOF VENT CALCULATIONS (IBC SECTION 1203.2 - 1/150 FACTOR)
AREA = 5,945 SF

VENTILATION FACTOR - 1 SF / 150 SF - 5945/150 = 39.6 SF OR 5,703 SQ. IN. OF FREE AREA
60/40 SPLIT INTAKE/EXHAUST

60% AREA AT EAVES - REQUIRED AREA = 23.8 SF (3,427 SQ. IN.)
40% AREA AT RIDGE - REQUIRED AREA = 15.8 SF (2,275 SQ. IN.)

FREE AREA AT RIDGE (EXHAUST) 40%

RIDGE VENTS - 103' @ 18.3 SQ. IN./LINEAR FOOT = 1,880 SQ. IN.
BOX VENTS - (4) @ 130 SQ. IN./UNIT = 520 SQ. IN.
TOTAL @ RIDGE = 2,400 SQ. IN.

FREE AREA AT SOFFIT (INTAKE) 60%

BUILDING PERIMETER = APPROX. 328'
NOTE: CONTRACTOR TO PROVIDE & INSTALL APPROXIMATELY 360 LINEAL FEET OF VENTED SOFFIT PANEL AT EAVES, DISTRIBUTED ALONG ENTIRE PERIMETER OF BUILDING = 10 SQ. IN. / LINEAL FOOT.
PROVIDE BUG SCREEN ON INNER SURFACE.

360' x 10 SQ. IN./LINEAL FOOT - EAVES = 3,600 SQ. IN.

TOTALS
RIDGE - 2,400 SQ. IN. / 6,000 = 40 % (RIDGE)
EAVES - 3,600 SQ. IN. / 6,000 = 60 % (EAVES)

ROOF DRAINAGE CALCULATIONS

SQUARE FOOTAGE OF TOTAL ROOF = 5,945 SF

SMACNA TABLE 1.1
SLOPE 5/12 = 1.05 FACTOR

5952 x 1.05 = 6,250

6250 / 7 = 893 SF/DOWNSPOUT

SMACNA TABLE 1.2
893 / 170 = 5.3 SQ. IN. MIN. AREA PER DOWNSPOUT

3" x 4" RECTANGULAR DOWNSPOUTS USED (12 SQ. IN. EACH) - COMPLIES

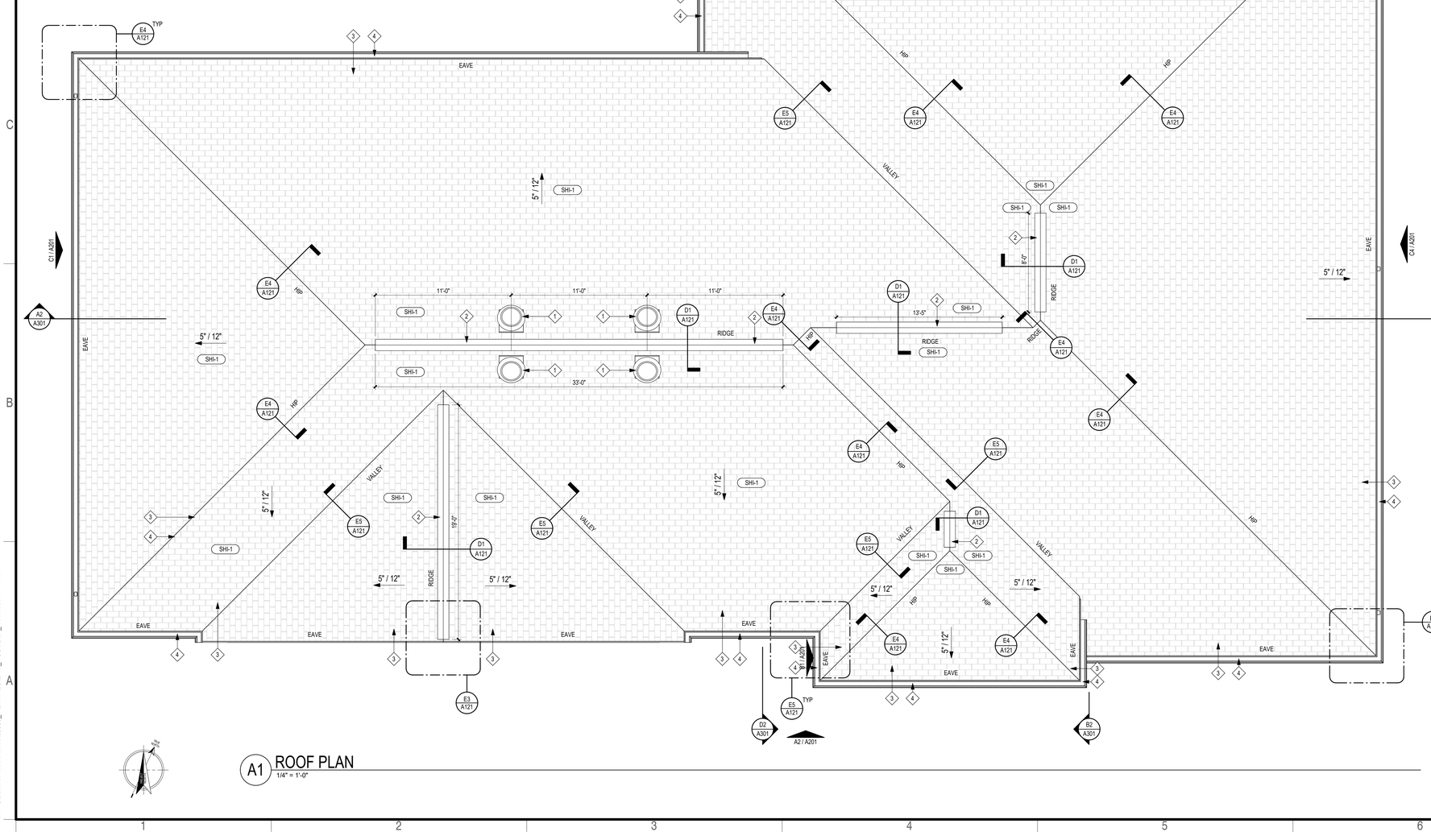
ANOTHER WAY TO CALCULATE:

SQUARE FOOTAGE OF TOTAL ROOF = 6,250 SF

R = RAINFALL INTENSITY = 4.0" PER HOUR
A = ROOF AREA = 6,250 SF
GPM = R x A x 0.0104
4.0 x 6250 x 0.0104 = 260 GPM

D = DOWNSPOUT = 7
GPM/D = GPM PER DOWNSPOUT
260/7 = 37.1 GPM - COMPLIES

DOWNSPOUT SIZE = 4" x 3"



A1 ROOF PLAN
1/4" = 1'-0"

ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
365 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	04/22/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

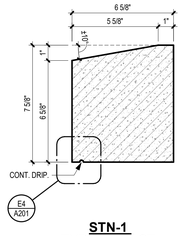
ROOF PLAN & DETAILS

Project No.
25083

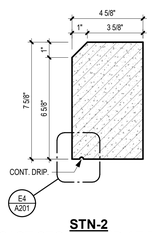
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Date
10/16/2026

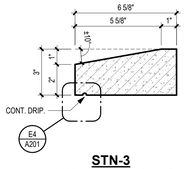
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STN-1
TYPICAL CAST STONE BAND



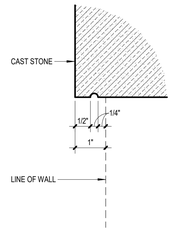
STN-2
CAST STONE BAND AT FULL HT. BRICK VENEER WALLS



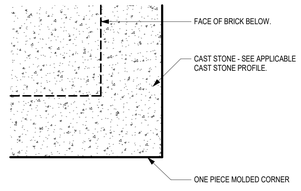
STN-3
CAST STONE BAND @ ENTRY TOWER

E1 TYPICAL CAST STONE PROFILES
3" = 1'-0"

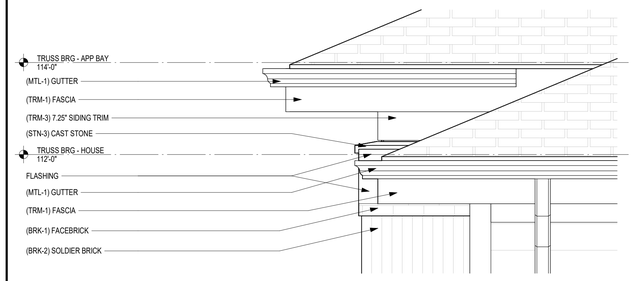
CAST STONE MFR. TO COORDINATE STONE ANCHORS AND METHODS WITH MASON.



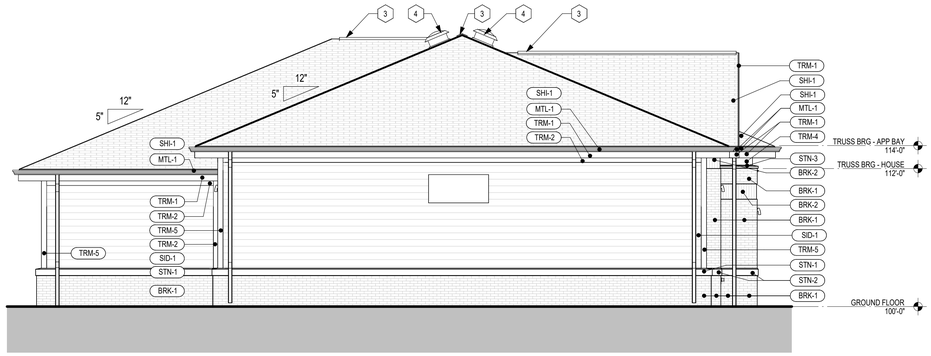
E4 TYPICAL CAST STONE DRIP
HALF SCALE



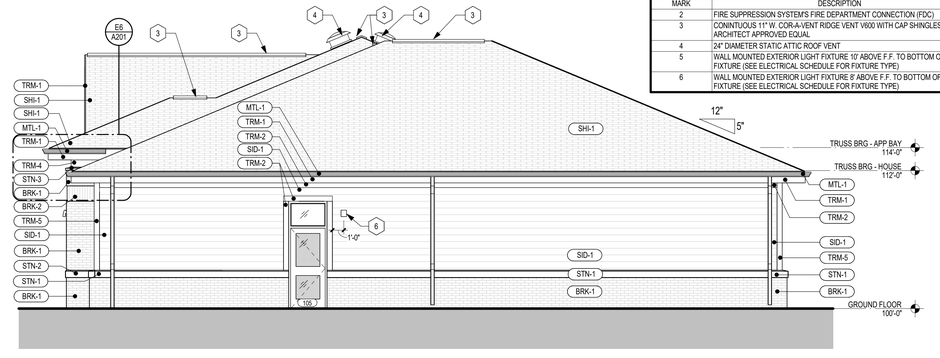
E5 TYPICAL CAST STONE CORNER DET.
3" = 1'-0"



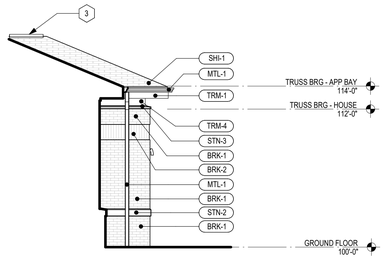
E6 FLASHING ROOF DETAIL
3/4" = 1'-0"



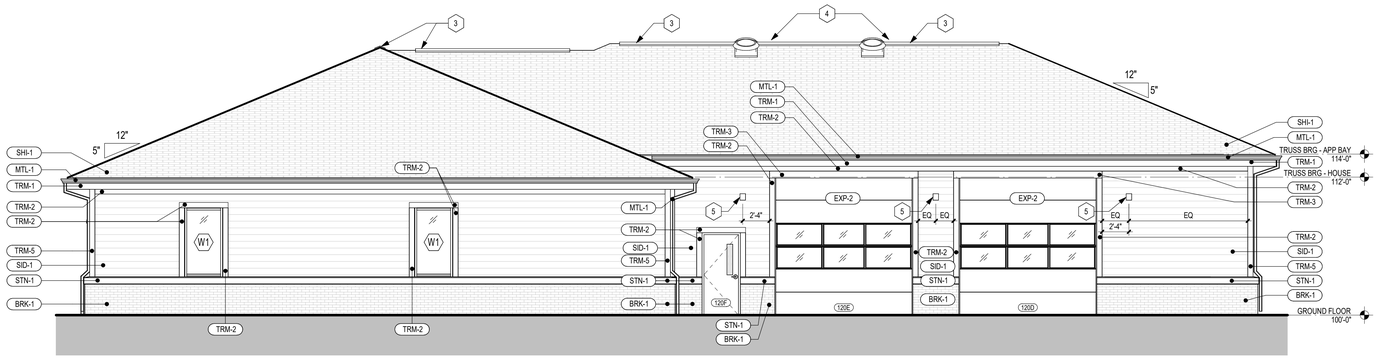
C1 WEST ELEVATION
3/16" = 1'-0"



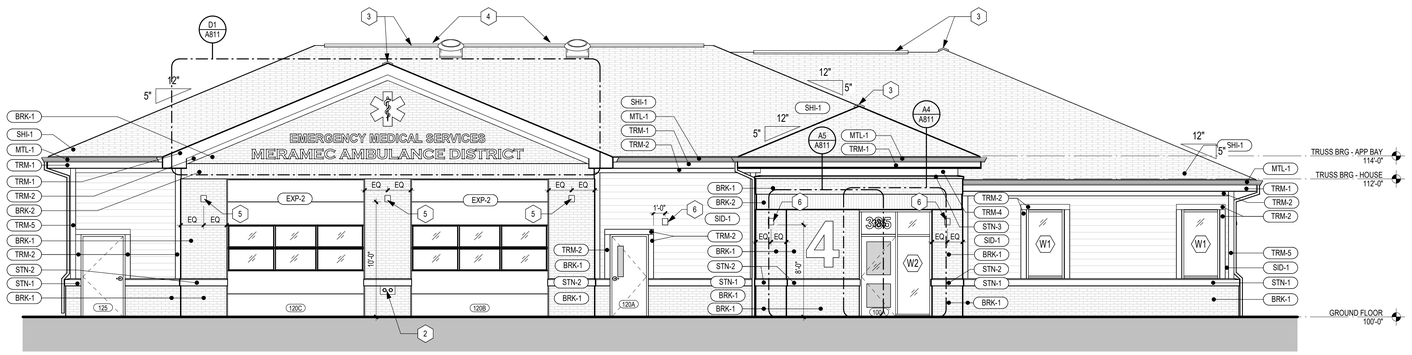
C4 EAST ELEVATION
3/16" = 1'-0"



B1 PARTIAL WEST ELEVATION
3/16" = 1'-0"



B2 NORTH ELEVATION
3/16" = 1'-0"



A2 SOUTH ELEVATION
3/16" = 1'-0"

KEYED NOTES EXTERIOR ELEV.

MARK	DESCRIPTION
2	FIRE SUPPRESSION SYSTEM'S FIRE DEPARTMENT CONNECTION (FDC)
3	CONINTUOUS 11" W. CORA-VENT RIDGE VENT V600 WITH CAP SHINGLES OR ARCHITECT APPROVED EQUAL
4	24" DIAMETER STATIC ATTIC ROOF VENT
5	WALL MOUNTED EXTERIOR LIGHT FIXTURE 10' ABOVE F.F. TO BOTTOM OF FIXTURE (SEE ELECTRICAL SCHEDULE FOR FIXTURE TYPE)
6	WALL MOUNTED EXTERIOR LIGHT FIXTURE 8' ABOVE F.F. TO BOTTOM OF FIXTURE (SEE ELECTRICAL SCHEDULE FOR FIXTURE TYPE)

EXT. ELEVATION GEN. NOTES

1. PROJECT NOTES ON SHEET A001 APPLY TO ALL SHEETS.
2. HEIGHTS OF WALLS REFERENCED ARE FROM FINISH FLOOR 100'-0".
3. SEE ROOF PLAN FOR ITEMS LOCATED ON THE ROOF - NOT SHOWN IN ELEVATIONS.
4. SEE MEPFP DRAWINGS FOR ALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION ITEMS.
5. WHERE GUTTERS ARE INDICATED, GUTTERS SHALL BE PRE-FINISHED METAL. PLUMBING CONTRACTOR TO VERIFY IF SIZE IS ADEQUATE.
6. WHERE DOWNSPOUTS INDICATED, GUTTERS SHALL BE PRE-FINISHED METAL WITH BRACKETS TOP AND BOTTOM OR 8'-0" O.C. MAX. PLUMBING CONTRACTOR TO VERIFY IF SIZE IS ADEQUATE. SEE EXTERIOR ELEVATIONS FOR LOCATIONS.
7. METAL COPING / FASCIAS SHALL BE PRE-FINISHED METAL. INTERSECTION SHAPES SHALL BE MITERED, WELDED AND FINISHED TO HAVE A MONOLITHIC APPEARANCE UNLESS OTHERWISE INDICATED.
8. PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS, e.g. BRICK TO FLASHING, CMU TO FLASHING, WINDOWS / DOORS TO BRICK / CMU .

EXT. BLDG. MTLS. LEGEND

#	MARK	DESCRIPTION
	BRK-1	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: RUNNING BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS: 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
	BRK-2	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: SOLDIER ACCENT STACK BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
	EXP-1	**EXTERIOR PAINT**: EXTERIOR HOLLOW FRAMES & INSUL. H.M. DOORS **MANUFACTURER**: SHERWIN WILLIAMS **SPECIAL INSTRUCTIONS**: ALL SURFACES SHALL BE CLEANED. IF SHEEN IS PRESENT, SURFACE SHALL BE SANDED DOWN FOR MECHANICAL ADHESION. **PRIME COAT:** B51W1150 EXTREME BOND **2 -COAT FINISH**: TWO FINISH COATS B53W2251 PRO-INDUSTRIAL WATER-BASED ALKYD URETHANE ENAMEL, LOW SHEEN. **COLOR**: SW 2849 WESTCHESTER GRAY.
	EXP-2	**EXTERIOR PAINT**: OVERHEAD DOORS **MANUFACTURER**: WAYNE DALTON **BASE BID COLOR**: WHITE POWDER COAT FINISH **ALTERNATE COLOR**: RAL 5003 SAPPHIRE BLUE
	MTL-1	**GUTTERS & DOWNSPOUTS** **BASIS OF DESIGN:** McELROY **COLOR:** REGAL WHITE **TEXTURE:** PREFINISHED **PROFILE:** OGEE **SIZE**: 6" W x 5" H GUTTERS, 4" L x 3" W DOWNSPOUTS
	SHI-1	**FIBERGLASS ASPHALT SHINGLES** **BASIS OF DESIGN**: OWENS CORNING **SERIES**: DURATION **COLOR**: SIERRA GRAY
	SID-1	**EXTERIOR LAP SIDING**: **PRODUCT**: LAP SIDING (SEE SPECIFICATIONS) **COLOR**: TIMBER BARK GRAY **TEXTURE**: CEDAR **SIZE**: 7" EXPOSURE
	SOF-1	**EXTERIOR VENTED SOFFIT**: **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. VENTED
	SOF-2	**EXTERIOR NON-VENTED SOFFIT**: **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. NON-VENTED
	STF-1	**STOREFRONT & GLAZING** **BASIS OF DESIGN**: YKK ARCHITECTURAL PRODUCTS **PRODUCT:** YES 45 TU, 2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. **FINISH**: YKYN BLACK ANODIZED PLUS **GLAZING** : 1 " INSULATED GLASS VITRO SOLARBAN 60 (2) + CLEAR. - REFERENCE GLAZING SCHEDULE AND ARCHITECTURAL SPECS.
	STN-1	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
	STN-2	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
	STN-3	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
	TRM-1	**FASCIA**: **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 11.25" WIDE
	TRM-2	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE
	TRM-3	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 7.25" WIDE
	TRM-4	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 9.25" WIDE
	TRM-5	**SIDING CORNER TRIM**: OUTSIDE CORNER **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE CORNER

STATE OF MISSOURI
ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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[Consultants]

PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Revision	Date
	PERMIT DOCUMENTS	10/02/2026
	PERMIT DOCUMENTS - REVISED	10/10/2026
	BIDDING DOCUMENTS	10/16/2026

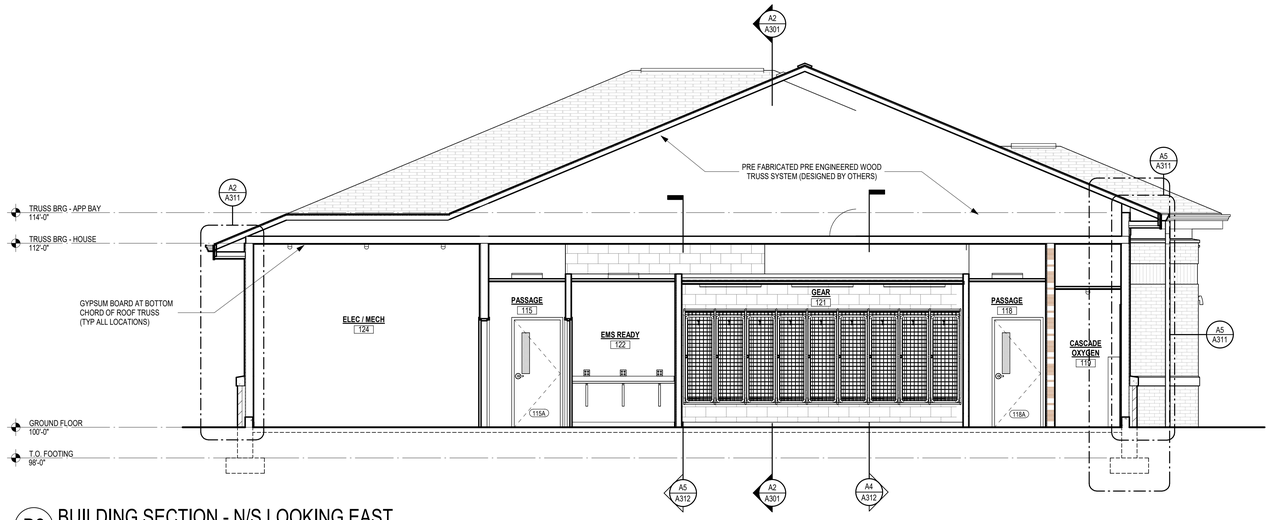
EXTERIOR ELEVATIONS

Project No. 25083

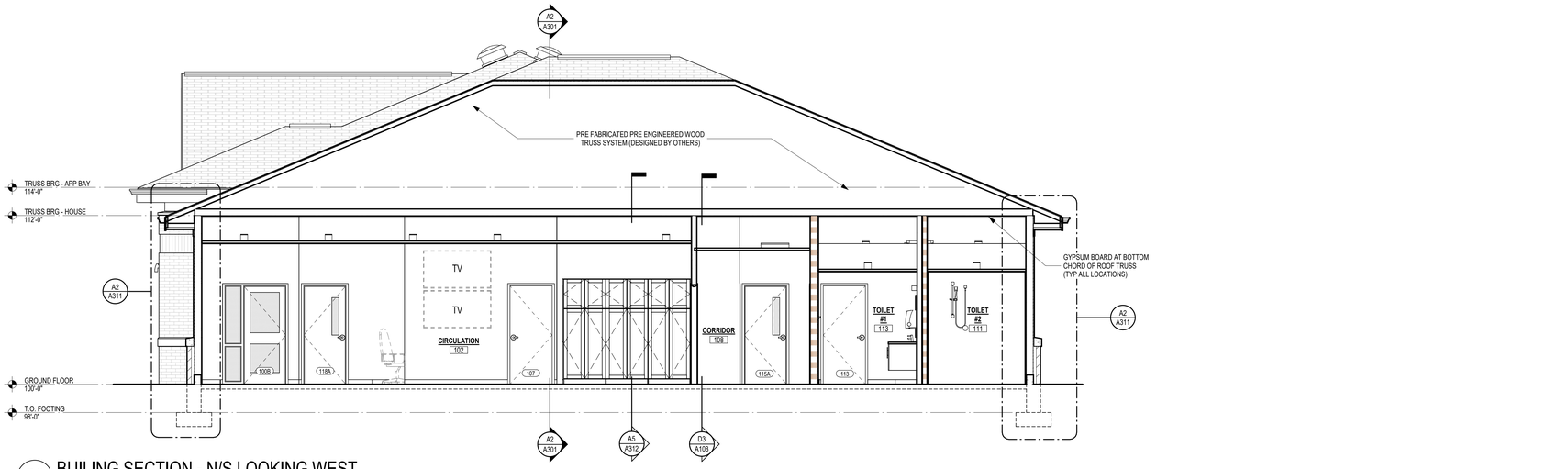
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Date 10/16/2026

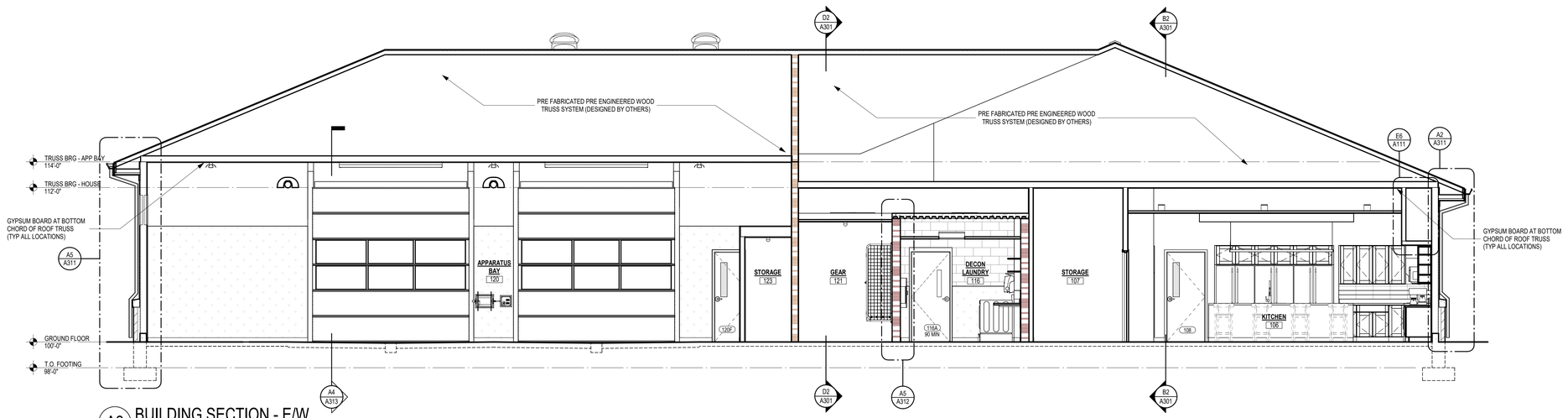
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D2 BUILDING SECTION - N/S LOOKING EAST
1/4" = 1'-0"



B2 BUILING SECTION - N/S LOOKING WEST
1/4" = 1'-0"



A2 BUILDING SECTION - E/W
1/4" = 1'-0"

ROY A. MANGAN
NUMBER A-6661
ARCHITECT
STATE OF MISSOURI
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
1	04/17/2026	PERMIT DOCUMENTS
2	10/02/2026	PERMIT DOCUMENTS - REVISED
3	10/16/2026	BIDDING DOCUMENTS

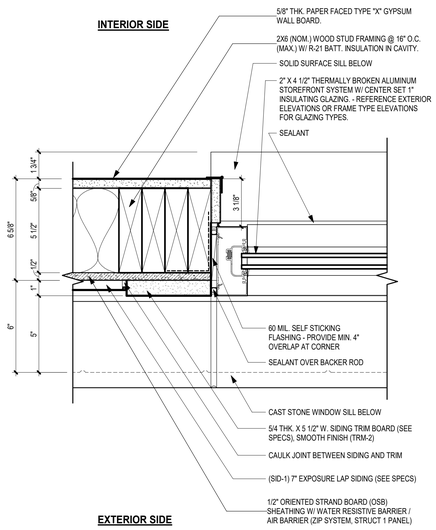
BUILDING SECTIONS

Project No.
25083

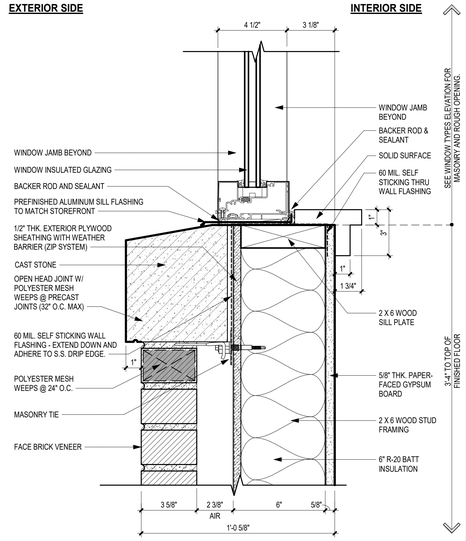
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A301

Date
10/16/2026

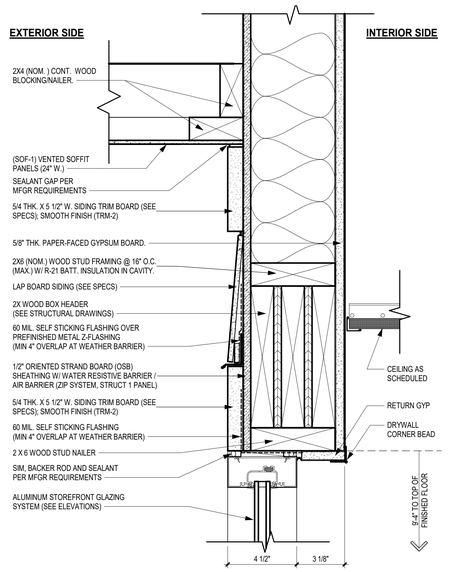
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D2 WINDOW JAMB AT BRICK / SIDING DETAIL
3" = 1'-0"

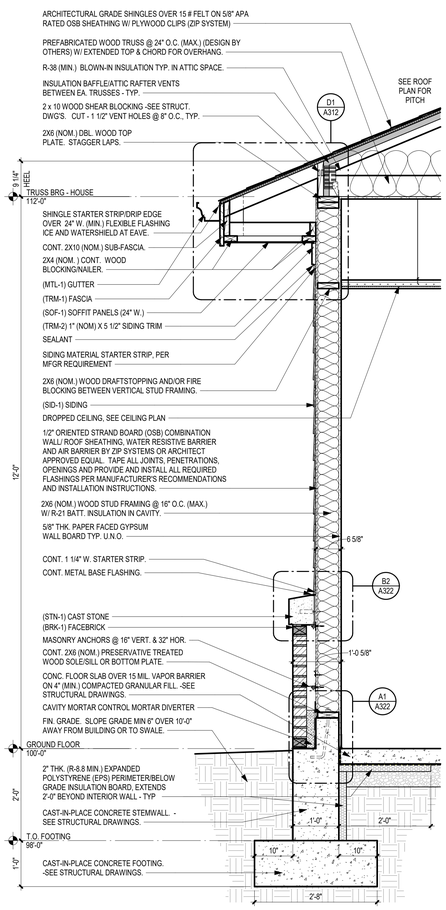


D4 WINDOW SILL AT BRICK DETAIL
3" = 1'-0"

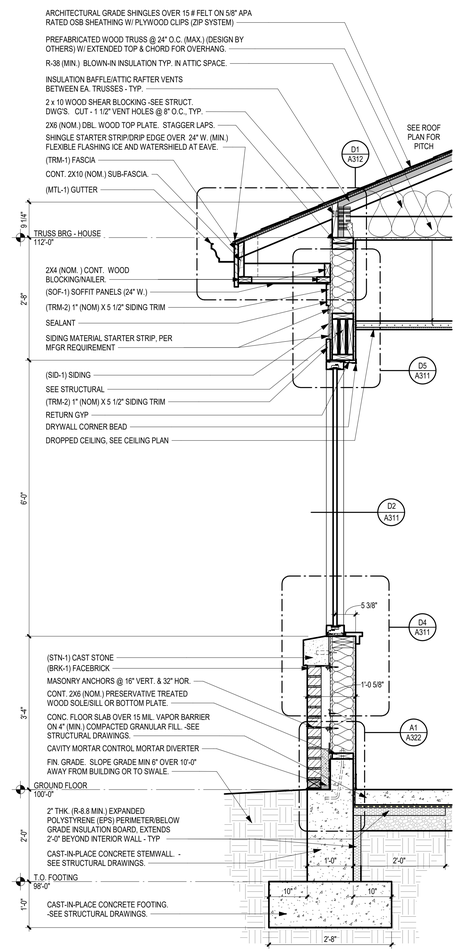


D5 WINDOW HEAD AT SIDING DETAIL
3" = 1'-0"

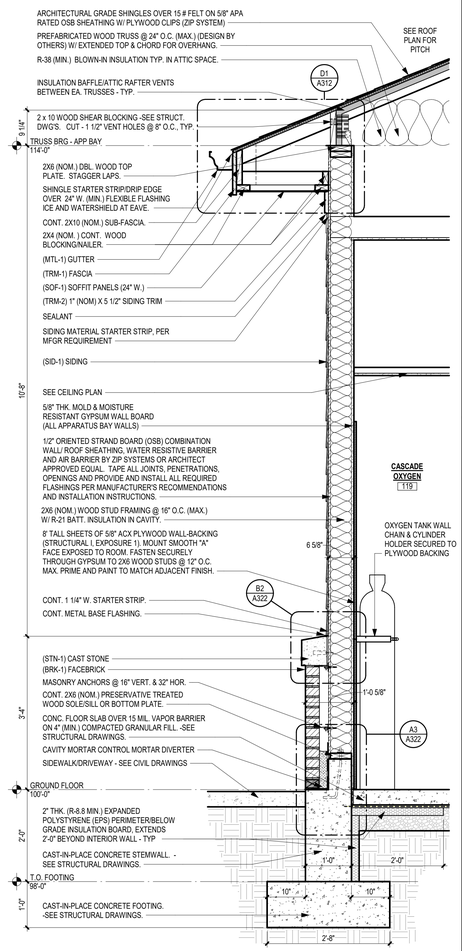
#	EXT. BLDG. MTLS. LEGEND
MARK	DESCRIPTION
BRK-1	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: RUNNING BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS: 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
BRK-2	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: SOLDIER ACCENT STACK BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
EXP-1	**EXTERIOR PAINT**: EXTERIOR HOLLOW FRAMES & INSUL. H.M. DOORS **MANUFACTURER**: SHERWIN WILLIAMS **SPECIAL INSTRUCTIONS**: ALL SURFACES SHALL BE CLEANED. IF SHEEN IS PRESENT, SURFACE SHALL BE SANDED DOWN FOR MECHANICAL ADHESION. **PRIME COAT**: B51W1150 EXTREME BOND **2 -COAT FINISH**: TWO FINISH COATS B53W2251 PRO-INDUSTRIAL WATER-BASED ALKYD URETHANE ENAMEL, LOW SHEEN. **COLOR**: SW 2849 WESTCHESTER GRAY.
EXP-2	**EXTERIOR PAINT**: OVERHEAD DOORS **MANUFACTURER**: WAYNE DALTON **BASE BD COLOR**: WHITE POWDER COAT FINISH **ALTERNATE COLOR**: RAL 5003 SAPPHIRE BLUE
MTL-1	**GUTTERS & DOWNSPOUTS** **BASIS OF DESIGN:** McELROY **COLOR:** REGAL WHITE **TEXTURE:** PREFINISHED **PROFILE:** OGEE **SIZE:** 6" W x 5" H GUTTERS, 4" L x 3" W DOWNSPOUTS
SHI-1	**FIBERGLASS ASPHALT SHINGLES** **BASIS OF DESIGN**: OWENS CORNING **SERIES**: DURATION **COLOR**: SIERRA GRAY
SID-1	**EXTERIOR LAP SIDING**: **PRODUCT**: LAP SIDING (SEE SPECIFICATIONS) **COLOR**: TIMBER BARK GRAY **TEXTURE**: CEDAR **SIZE**: 7" EXPOSURE
SOF-1	**EXTERIOR VENTED SOFFIT**: **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. VENTED
SOF-2	**EXTERIOR NON-VENTED SOFFIT**: **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. NON-VENTED
STF-1	**STOREFRONT & GLAZING** **BASIS OF DESIGN**: YKK ARCHITECTURAL PRODUCTS **PRODUCT:** YES 45 TU, 2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. **FINISH**: YK1N BLACK ANODIZED PLUS **GLAZING** : 1 " INSULATED GLASS VITRO SOLARBAN 60 (2) + CLEAR. - REFERENCE GLAZING SCHEDULE AND ARCHITECTURAL SPECS.
STN-1	**CAST STONE:** CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-2	**CAST STONE:** CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-3	**CAST STONE:** CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
TRM-1	**FASCIA:** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 11.25" WIDE
TRM-2	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE
TRM-3	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 7.25" WIDE
TRM-4	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 9.25" WIDE
TRM-5	**SIDING CORNER TRIM**: OUTSIDE CORNER **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE CORNER



A2 TYP WALL SECTION (HOUSE/ADMIN)
3/4" = 1'-0"



A4 TYP WALL SECTION (AT WINDOW)
3/4" = 1'-0"



A5 TYP WALL SECTION (BAY)
3/4" = 1'-0"

STATE OF MISSOURI
ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
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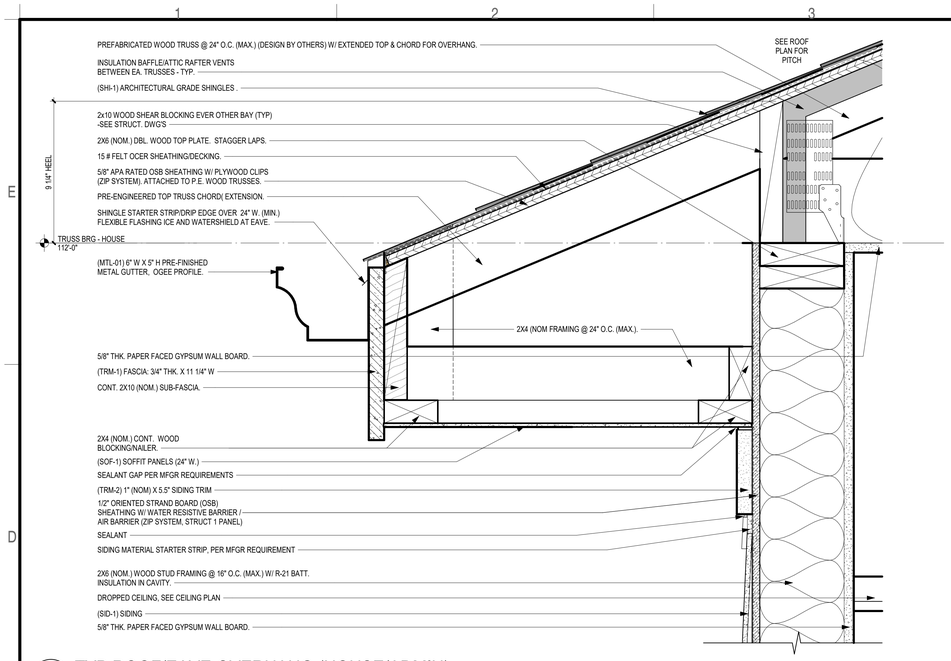
PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Revision	Date
	PERMIT DOCUMENTS	10/02/2026
	PERMIT DOCUMENTS - REVISED	10/02/2026
	BIDDING DOCUMENTS	10/16/2026

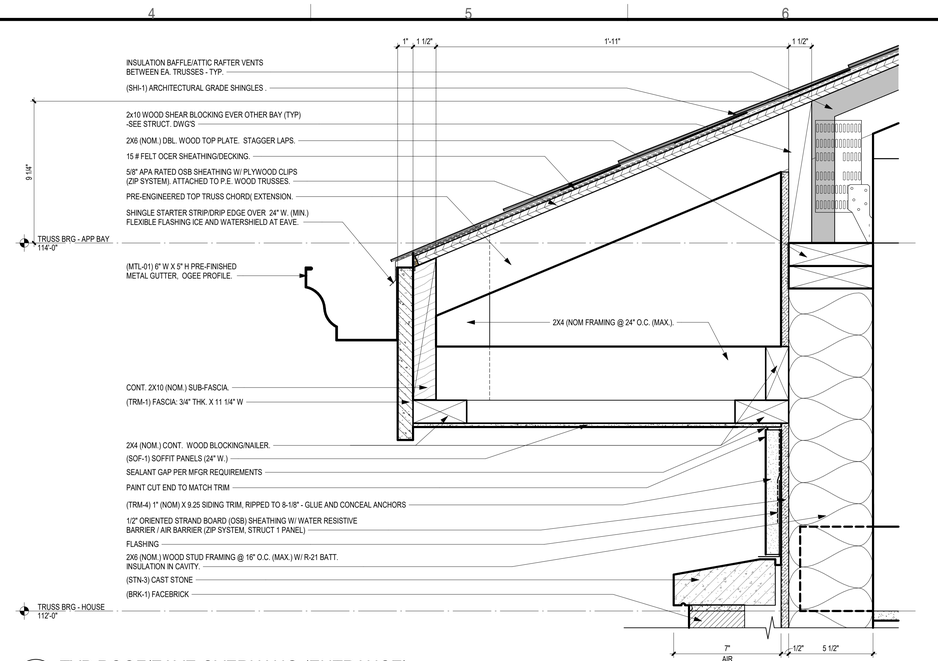
WALL SECTIONS

Project No. 25083
Sheet No. A311
Date 10/16/2026

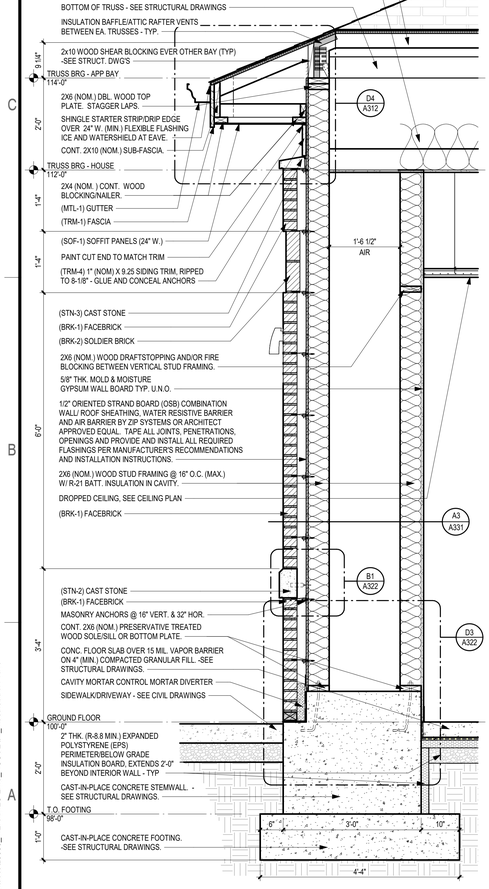
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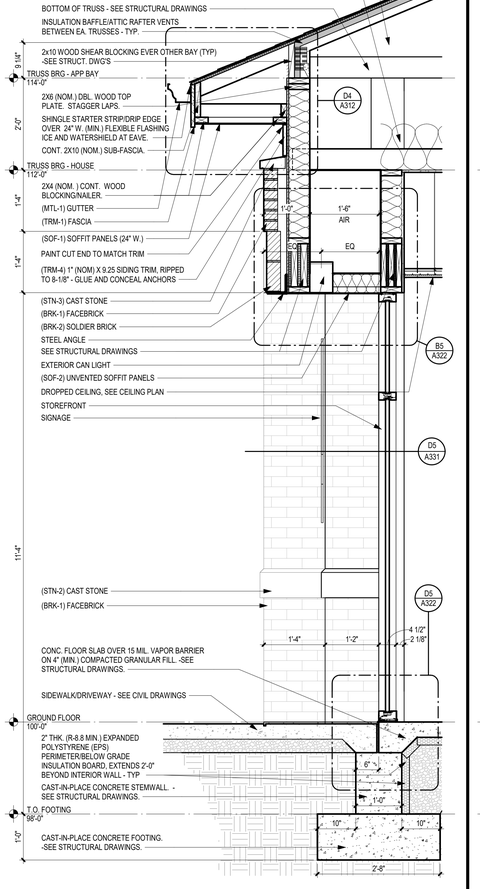
D1 TYP ROOF/EAVE OVERHANG (HOUSE/ADMIN)
3" = 1'-0"



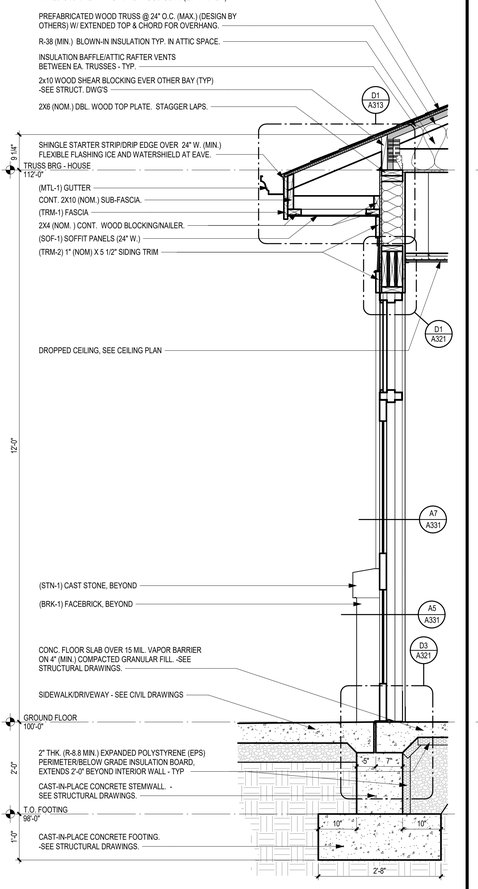
D4 TYP ROOF/EAVE OVERHANG (ENTRANCE)
3" = 1'-0"



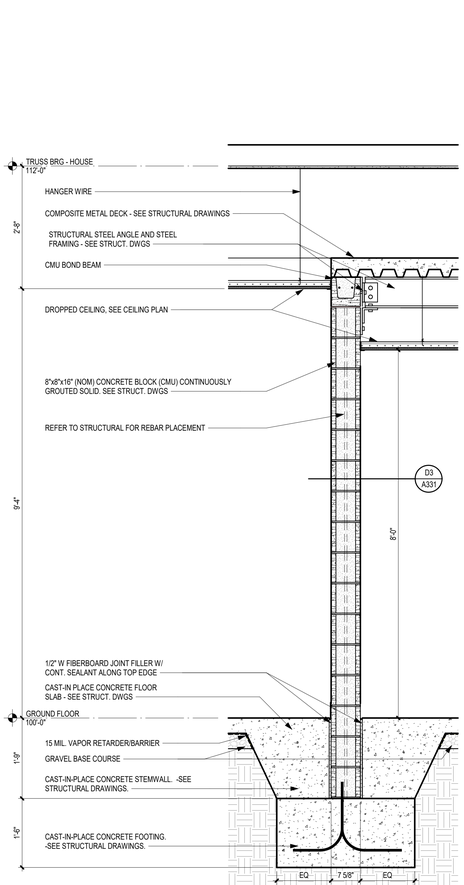
A1 TYP WALL SECTION (PILASTER)
3/4" = 1'-0"



A2 TYP WALL SECTION (ENTRANCE STOREFRONT)
3/4" = 1'-0"



A4 TYP WALL SECTION (STOREFRONT)
3/4" = 1'-0"



A5 TYP WALL SECTION (DECON)
3/4" = 1'-0"

EXT. BLDG. MTLS. LEGEND

MARK	DESCRIPTION
BRK-1	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: RUNNING BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS: 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
BRK-2	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: SOLDIER ACCENT STACK BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
EXP-1	**EXTERIOR PAINT**: EXTERIOR HOLLOW FRAMES & INSUL. H.M. DOORS **MANUFACTURER**: SHERWIN WILLIAMS **SPECIAL INSTRUCTIONS**: ALL SURFACES SHALL BE CLEANED. IF SHEEN IS PRESENT, SURFACE SHALL BE SANDED DOWN FOR MECHANICAL ADHESION. **PRIME COAT**: B51W1150 EXTREME BOND **2 -COAT FINISH**: TWO FINISH COATS B53W2251 PRO-INDUSTRIAL WATER-BASED ALKYD URETHANE ENAMEL, LOW SHEEN. **COLOR**: SW 2849 WESTCHESTER GRAY.
EXP-2	**EXTERIOR PAINT**: OVERHEAD DOORS **MANUFACTURER**: WAYNE DALTON **BASE BID COLOR**: WHITE POWDER COAT FINISH **ALTERNATE COLOR**: RAL 5003 SAPPHIRE BLUE
MTL-1	**GUTTERS & DOWNSPOUTS** **BASIS OF DESIGN:** McELROY **COLOR:** REGAL WHITE **TEXTURE:** PREFINISHED **PROFILE:** OGEE **SIZE:** 6" W x 5" H GUTTERS, 4" L x 3" W DOWNSPOUTS
SHI-1	**FIBERGLASS ASPHALT SHINGLES** **BASIS OF DESIGN:** OWENS CORNING **SERIES**: DURATION **COLOR**: SIERRA GRAY
SID-1	**EXTERIOR LAP SIDING** **PRODUCT:** LAP SIDING (SEE SPECIFICATIONS) **COLOR**: TIMBER BARK GRAY **TEXTURE**: CEDAR **SIZE**: 7" EXPOSURE
SOF-1	**EXTERIOR VENTED SOFFIT:** **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. VENTED
SOF-2	**EXTERIOR NON-VENTED SOFFIT:** **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. NON-VENTED
STF-1	**STOREFRONT & GLAZING** **BASIS OF DESIGN**: YKK ARCHITECTURAL PRODUCTS **PRODUCT:** YES 45 TU, 2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. **FINISH**: YK1N BLACK ANODIZED PLUS **GLAZING**: 1 " INSULATED GLASS VITRO SOLARBAN 60 (2) + CLEAR. - REFERENCE GLAZING SCHEDULE AND ARCHITECTURAL SPECS.
STN-1	**CAST STONE:** CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-2	**CAST STONE:** CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-3	**CAST STONE:** CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
TRM-1	**FASCIA:** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 11.25" WIDE
TRM-2	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE
TRM-3	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 7.25" WIDE
TRM-4	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 9.25" WIDE
TRM-5	**SIDING CORNER TRIM**: OUTSIDE CORNER **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE CORNER

STATE OF MISSOURI — ROY A. MANGAN — NUMBER A-6661 — ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/22/2026	PERMIT DOCUMENTS
	10/1/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

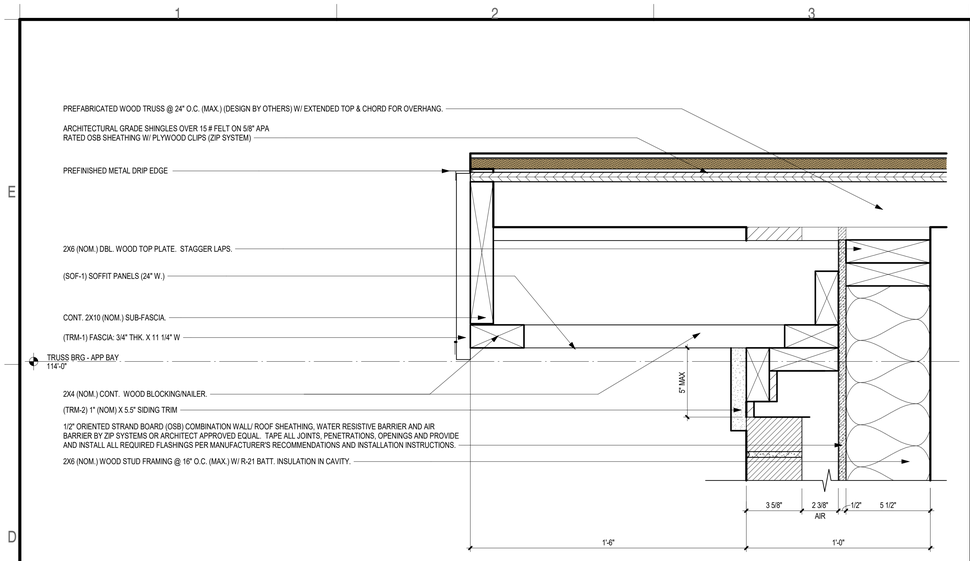
WALL SECTIONS

Project No. 25083

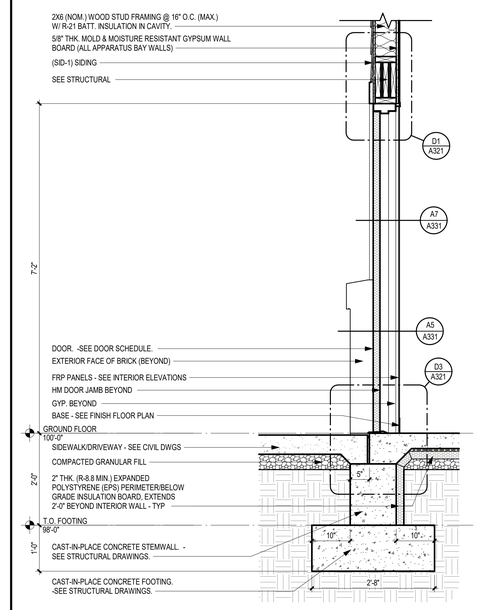
Sheet No. A312

Date 10/16/2026

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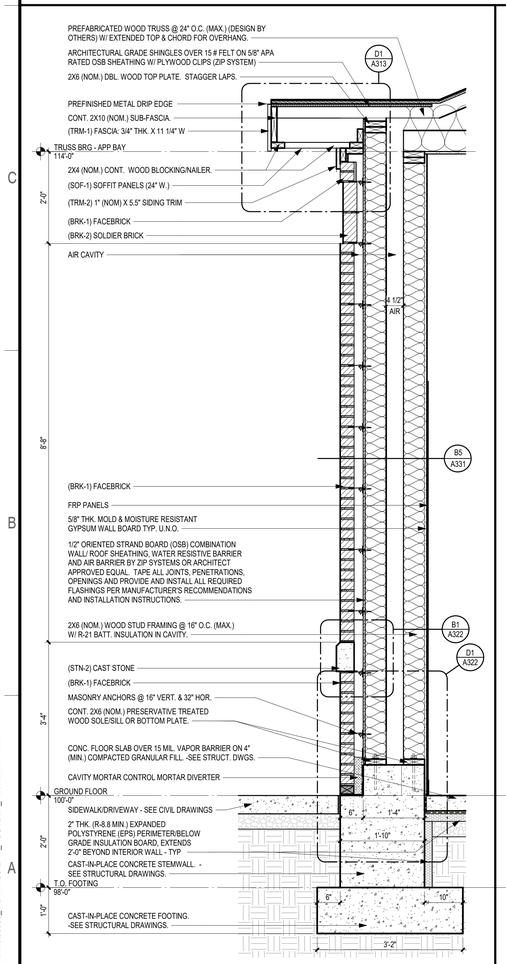


D1 TYP ROOF/EAVE OVERHANG (APP BAY AT SLOPE)
3" = 1'-0"

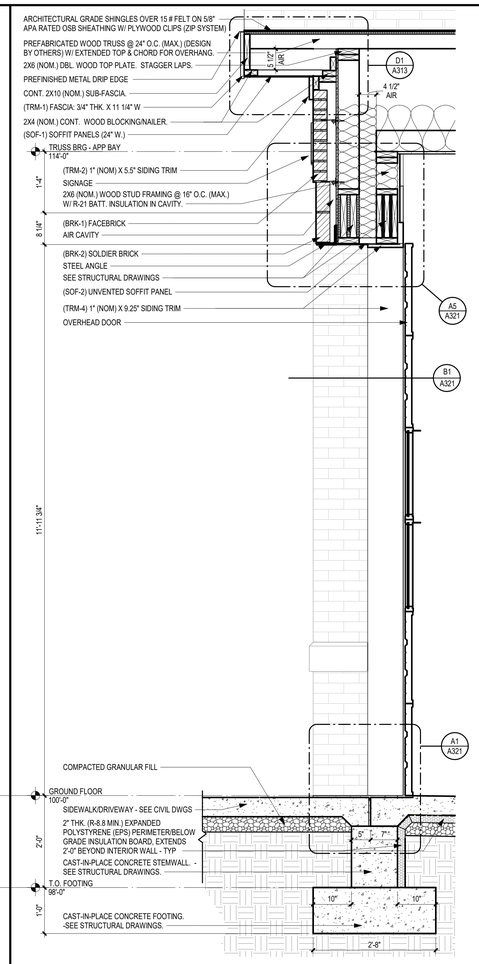


D5 TYP WALL SECTION (HM APP BAY DOOR)
3/4" = 1'-0"

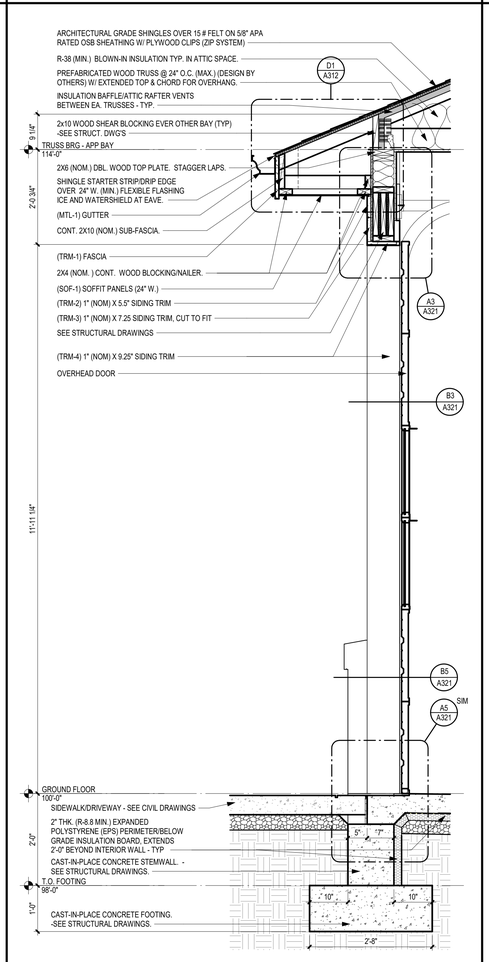
#	EXT. BLDG. MTLS. LEGEND
MARK	DESCRIPTION
BRK-1	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: RUNNING BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS: 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
BRK-2	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: SOLDIER ACCENT STACK BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
EXP-1	**EXTERIOR PAINT**: EXTERIOR HOLLOW FRAMES & INSUL. H.M. DOORS **MANUFACTURER**: SHERWIN WILLIAMS **SPECIAL INSTRUCTIONS**: ALL SURFACES SHALL BE CLEANED. IF SHEEN IS PRESENT, SURFACE SHALL BE SANDED DOWN FOR MECHANICAL ADHESION. **PRIME COAT**: B51W1150 EXTREME BOND **2 -COAT FINISH**: TWO FINISH COATS B53W2251 PRO-INDUSTRIAL WATER-BASED ALKYD URETHANE ENAMEL, LOW SHEEN. **COLOR**: SW 2849 WESTCHESTER GRAY.
EXP-2	**EXTERIOR PAINT**: OVERHEAD DOORS **MANUFACTURER**: WAYNE DALTON **BASE BID COLOR**: WHITE POWDER COAT FINISH **ALTERNATE COLOR**: RAL 5003 SAPPHIRE BLUE
MTL-1	**GUTTERS & DOWNSPOUTS** **BASIS OF DESIGN:** McELROY **COLOR:** REGAL WHITE **TEXTURE**: PREFINISHED **PROFILE:** OGEE **SIZE:** 6" W x 5" H GUTTERS, 4" L x 3" W DOWNSPOUTS
SHI-1	**FIBERGLASS ASPHALT SHINGLES** **BASIS OF DESIGN**: OWENS CORNING **SERIES**: DURATION **COLOR**: SIERRA GRAY
SID-1	**EXTERIOR LAP SIDING** **PRODUCT**: LAP SIDING (SEE SPECIFICATIONS) **COLOR**: TIMBER BARK GRAY **TEXTURE**: CEDAR **SIZE**: 7" EXPOSURE
SOF-1	**EXTERIOR VENTED SOFFIT:** **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. VENTED
SOF-2	**EXTERIOR NON-VENTED SOFFIT:** **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. NON-VENTED
STF-1	**STOREFRONT & GLAZING** **BASIS OF DESIGN**: YKK ARCHITECTURAL PRODUCTS **PRODUCT:** YES 45 TU, 2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. **FINISH**: YKK1N BLACK ANODIZED PLUS **GLAZING**: 1 " INSULATED GLASS VITRO SOLARBAN 60 (2) + CLEAR. - REFERENCE GLAZING SCHEDULE AND ARCHITECTURAL SPECS.
STN-1	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-2	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-3	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
TRM-1	**FASCIA:** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 11.25" WIDE
TRM-2	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE
TRM-3	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 7.25" WIDE
TRM-4	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 9.25" WIDE
TRM-5	**SIDING CORNER TRIM**: OUTSIDE CORNER **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE CORNER



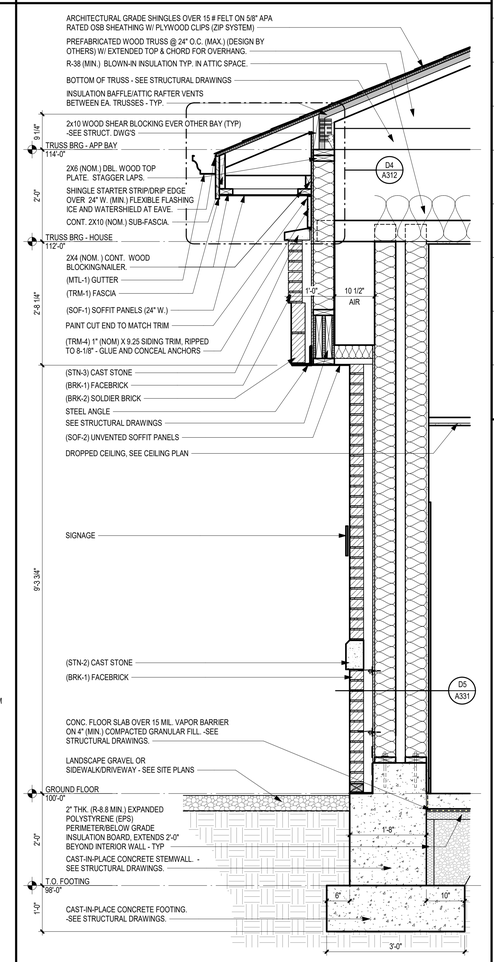
A1 TYP WALL SECTION (APP BAY COLUMN)
3/4" = 1'-0"



A2 TYP WALL SECTION (APP BAY COLUMN DOOR)
3/4" = 1'-0"



A4 TYP WALL SECTION (APP BAY DOOR)
3/4" = 1'-0"



A5 TYP WALL SECTION (ENTRANCE DOUBLE WALL)
3/4" = 1'-0"

ROY A. MARGAN NUMBER A-6661 ARCHITECT
Roy A. Margan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

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	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

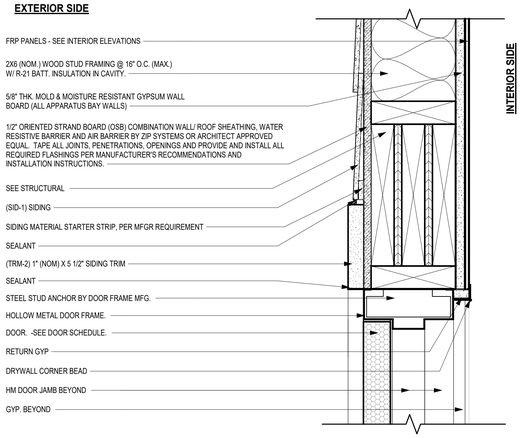
WALL SECTIONS

Project No. 25083

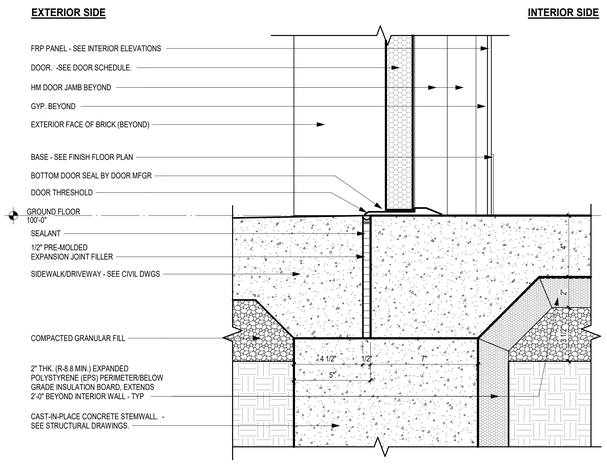
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Date 10/16/2026

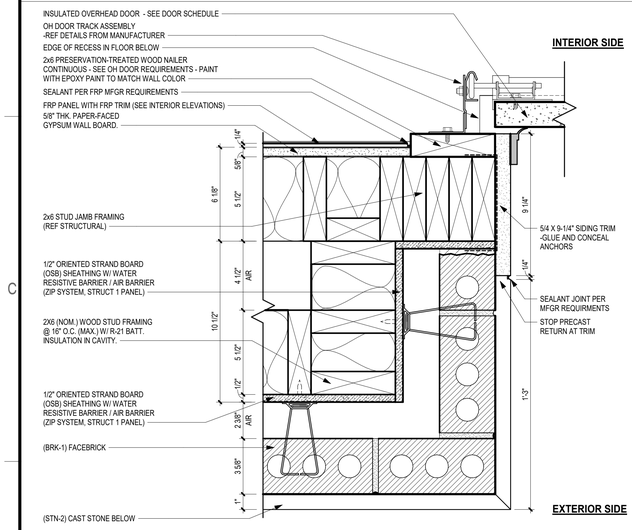
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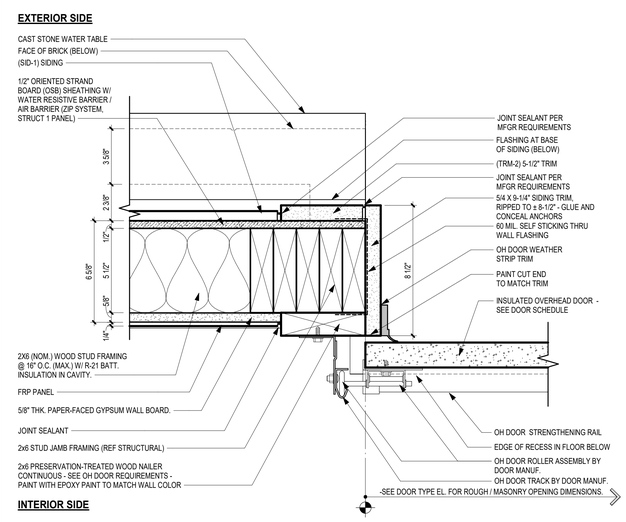
D1 HOLLOW METAL EXTERIOR DOOR HEAD DETAIL
3" = 1'-0"



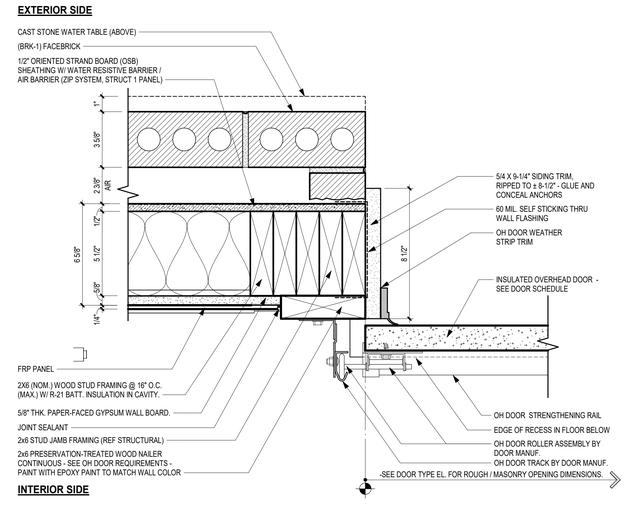
D3 HOLLOW METAL EXTERIOR DOOR SILL DETAIL
3" = 1'-0"



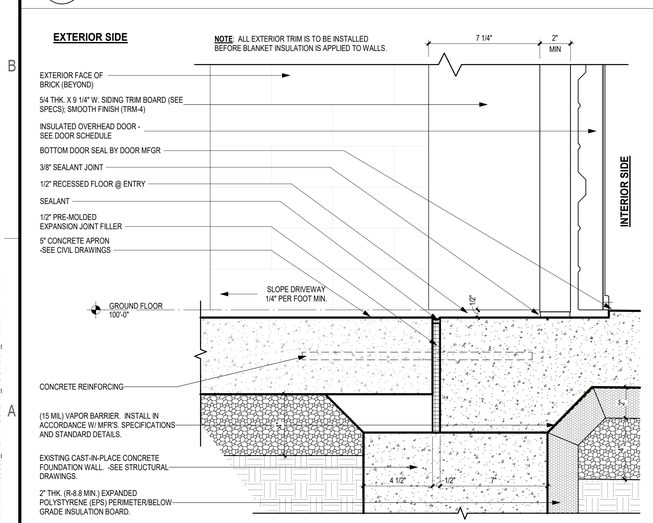
B1 PLAN DETAIL - OVERHEAD FRONT DOOR JAMB @ BRICK
3" = 1'-0"



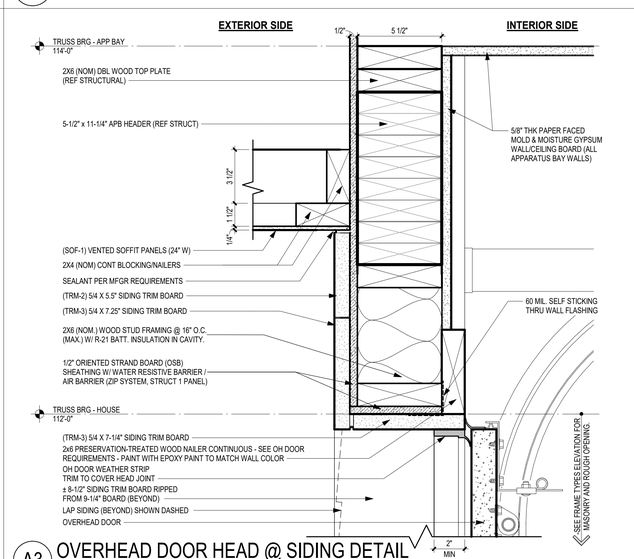
B3 PLAN DETAIL - OVERHEAD BACK DOOR JAMB @ SIDING
3" = 1'-0"



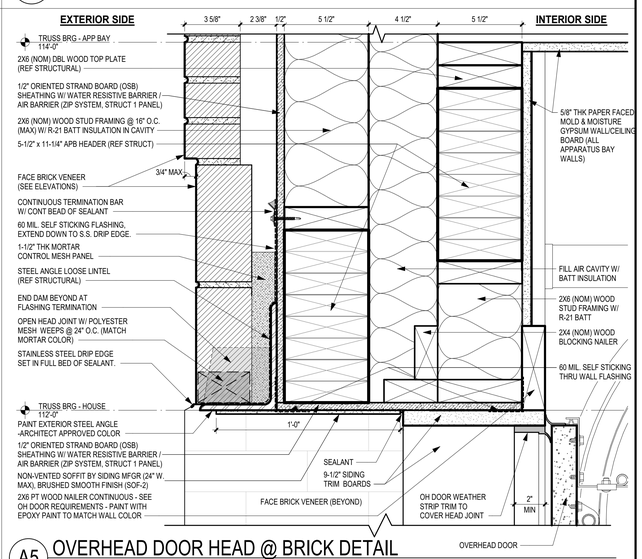
B5 PLAN DETAIL - OVERHEAD BACK DOOR JAMB @ BRICK
3" = 1'-0"



A1 OVERHEAD DOOR SILL @ BRICK DETAIL
3" = 1'-0"



A3 OVERHEAD DOOR HEAD @ SIDING DETAIL
3" = 1'-0"



A5 OVERHEAD DOOR HEAD @ BRICK DETAIL
3" = 1'-0"

STATE OF MISSOURI
ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	04/22/2026	PERMIT DOCUMENTS
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	10/16/2026	BIDDING DOCUMENTS

OVERHEAD & HM DOOR DETAILS

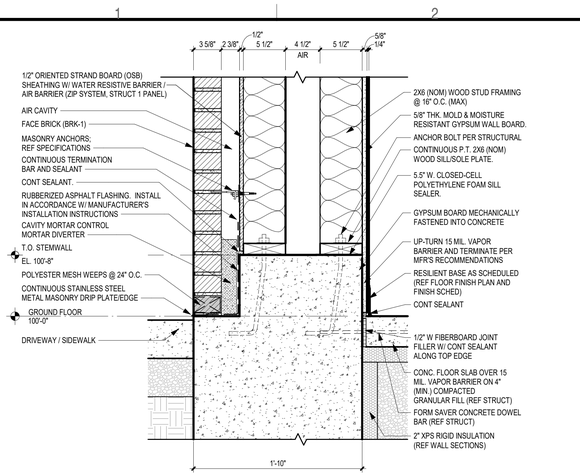
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Sheet No. A321

Date 10/16/2026

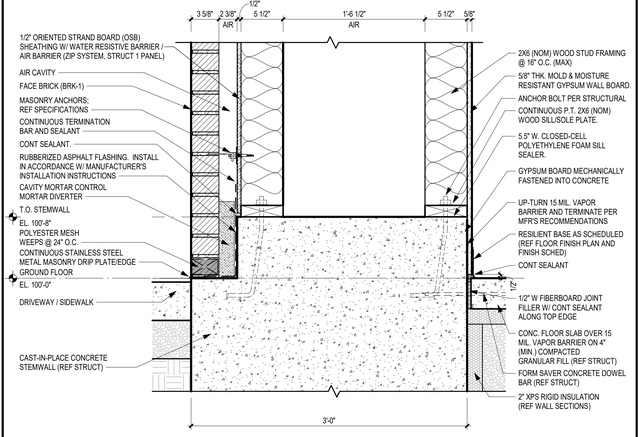
SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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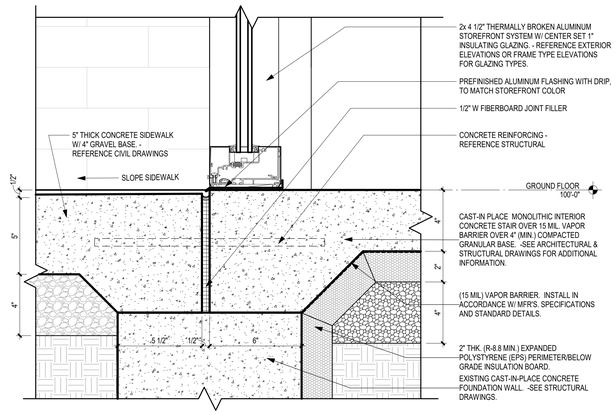
D1 TYP WALL SECTION DETAIL (APP BAY COLUMN)

1 1/2" = 1'-0"



D3 TYP WALL SECTION DETAIL (PILASTER)

1 1/2" = 1'-0"

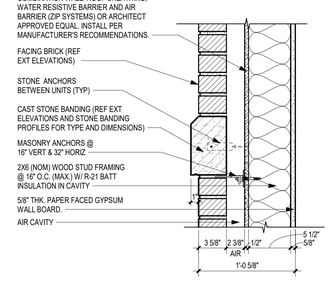


D5 TYP WALL SECTION DETAIL (STOREFRONT)

3" = 1'-0"

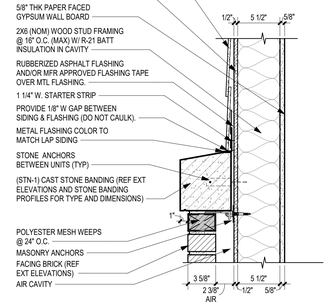
EXT. BLDG. MTLS. LEGEND

# MARK	DESCRIPTION
BRK-1	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: RUNNING BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS: 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
BRK-2	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: SOLDIER ACCENT STACK BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
EXP-1	**EXTERIOR PAINT**: EXTERIOR HOLLOW FRAMES & INSUL. H.M. DOORS **MANUFACTURER**: SHERWIN WILLIAMS **SPECIAL INSTRUCTIONS**: ALL SURFACES SHALL BE CLEANED. IF SHEEN IS PRESENT, SURFACE SHALL BE SANDED DOWN FOR MECHANICAL ADHESION. **PRIME COAT**: B51W1150 EXTREME BOND **2 -COAT FINISH**: TWO FINISH COATS B53W2251 PRO-INDUSTRIAL WATER-BASED ALKYD URETHANE ENAMEL, LOW SHEEN. **COLOR**: SW 2849 WESTCHESTER GRAY.
EXP-2	**EXTERIOR PAINT**: OVERHEAD DOORS **MANUFACTURER**: WAYNE DALTON **BASE BID COLOR**: WHITE POWDER COAT FINISH **ALTERNATE COLOR**: RAL 5003 SAPPHIRE BLUE
MTL-1	**GUTTERS & DOWNSPOUTS** **BASIS OF DESIGN:** McELROY **COLOR:** REGAL WHITE **TEXTURE:** PREFINISHED **PROFILE:** OGEE **SIZE:** 6" W x 5" H GUTTERS, 4" L x 3" W DOWNSPOUTS
SHI-1	**FIBERGLASS ASPHALT SHINGLES** **BASIS OF DESIGN**: OWENS CORNING **SERIES**: DURATION **COLOR**: SIERRA GRAY
SID-1	**EXTERIOR LAP SIDING** **PRODUCT**: LAP SIDING (SEE SPECIFICATIONS) **COLOR**: TIMBER BARK GRAY **TEXTURE**: CEDAR **SIZE**: 7" EXPOSURE
SOF-1	**EXTERIOR VENTED SOFFIT**: **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. VENTED
SOF-2	**EXTERIOR NON-VENTED SOFFIT**: **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. NON-VENTED
STF-1	**STOREFRONT & GLAZING** **BASIS OF DESIGN**: YKK ARCHITECTURAL PRODUCTS **PRODUCT:** YES 45 TU, 2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. **FINISH**: YK1N BLACK ANODIZED PLUS **GLAZING**: 1 " INSULATED GLASS VITRO SOLARBAN 60 (2) + CLEAR. - REFERENCE GLAZING SCHEDULE AND ARCHITECTURAL SPECS.
STN-1	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-2	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-3	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
TRM-1	**FASCIA:** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 11.25" WIDE
TRM-2	**SIDING TRIM**: **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE
TRM-3	**SIDING TRIM**: **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 7.25" WIDE
TRM-4	**SIDING TRIM**: **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 9.25" WIDE
TRM-5	**SIDING CORNER TRIM**: OUTSIDE CORNER **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE CORNER



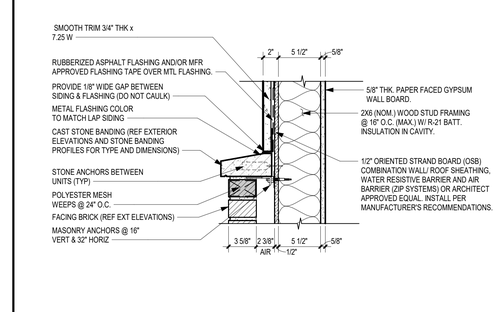
B1 TYP CS TO MASONRY DTL

1 1/2" = 1'-0"



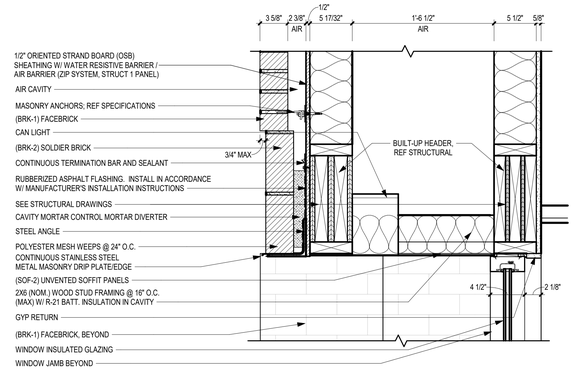
B2 TYP SIDING TO MASONRY DTL

1 1/2" = 1'-0"



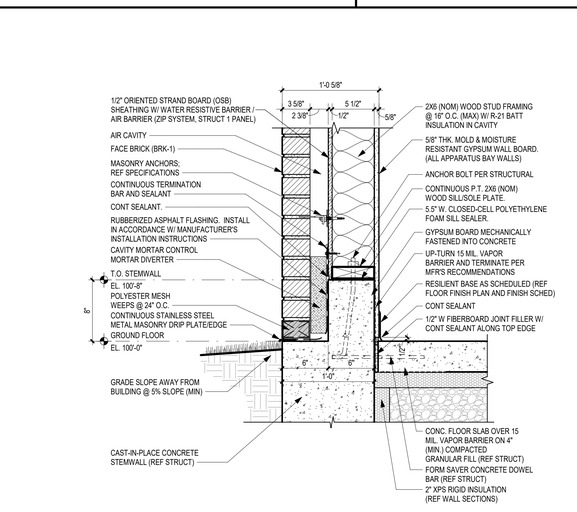
B3 TYP CAST STONE CAP DETAIL @ ENTRANCE

1 1/2" = 1'-0"



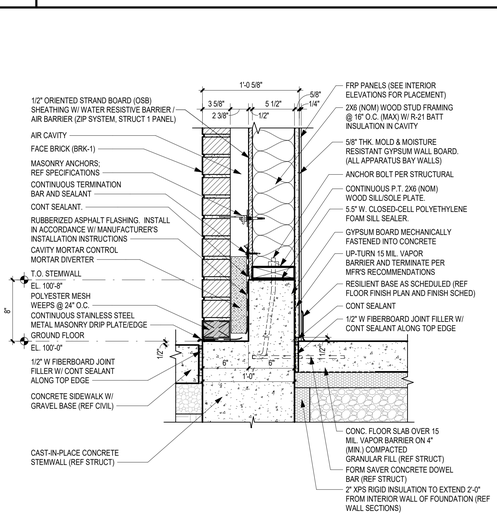
B5 SECTION DETAIL

1 1/2" = 1'-0"



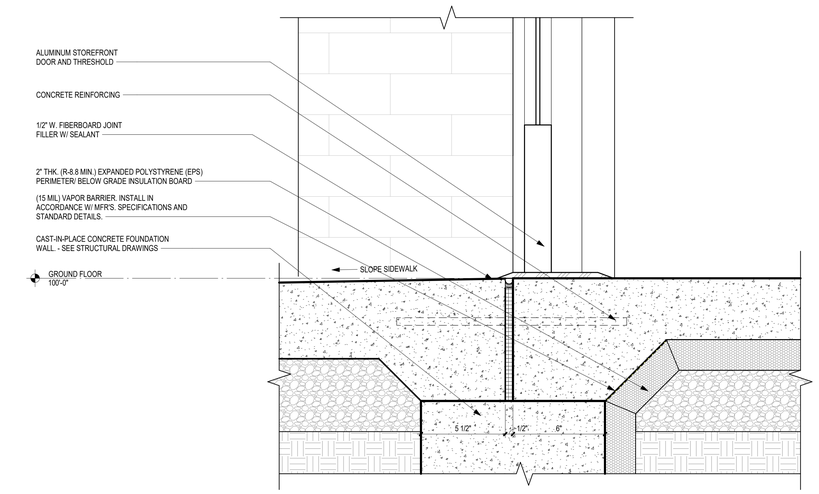
A1 TYP BASE OF WALL DETAIL (HOUSE / ADMIN)

1 1/2" = 1'-0"



A3 TYP BASE OF WALL DETAIL (APP BAY)

1 1/2" = 1'-0"



A5 TYP STOREFRONT SILL @ DOOR

3" = 1'-0"

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STATE OF MISSOURI — ROY A. MARGAN — NUMBER A-6661 — ARCHITECT

Roy A. Margan 10/16/2026

MO Architect License No: A-6661
Expires: 12/31/2026

[Consultants]

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

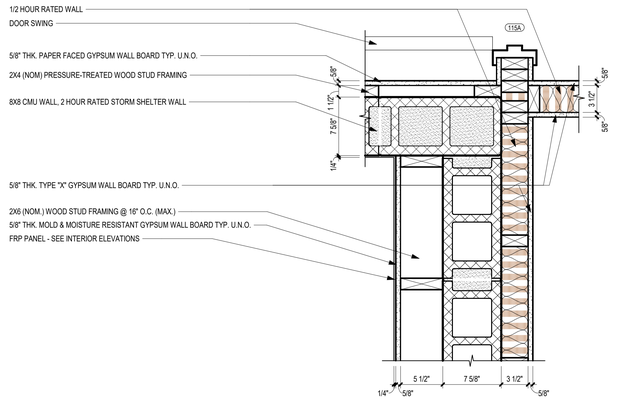
SECTION DETAILS

Project No. 25083

Sheet No. A322

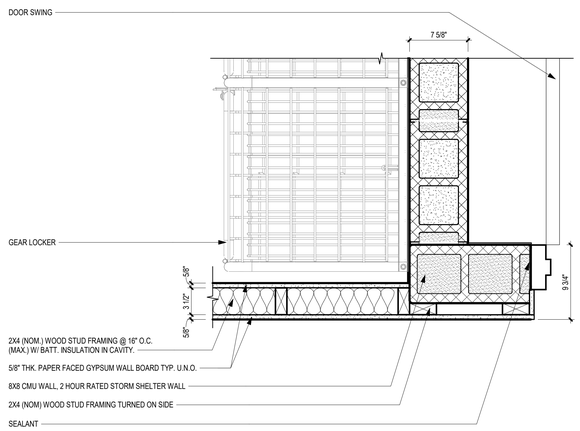
Date 10/16/2026

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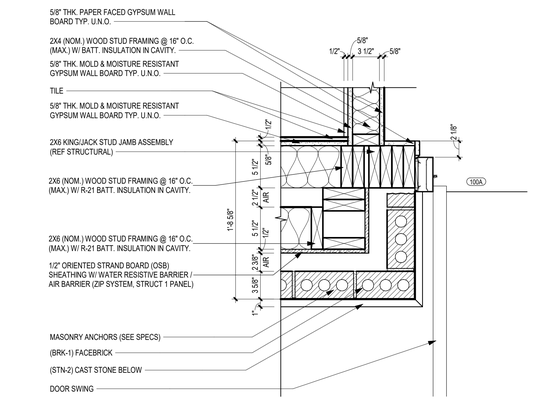
D1 PLAN DETAIL - DECON & BUNKS

1 1/2" = 1'-0"



D3 PLAN DETAIL - DECON & GEAR

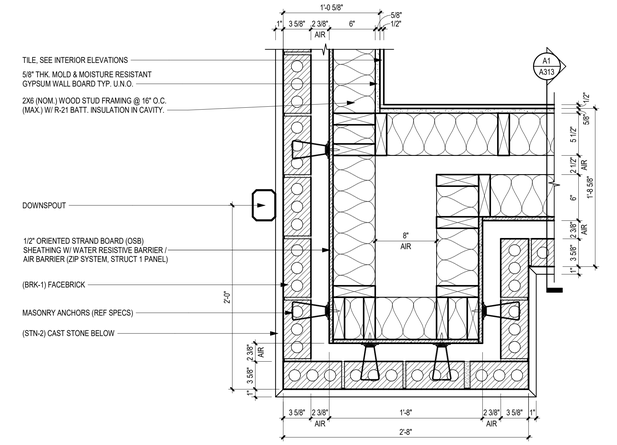
1 1/2" = 1'-0"



D5 PLAN DETAIL - STOREFRONT JAMB

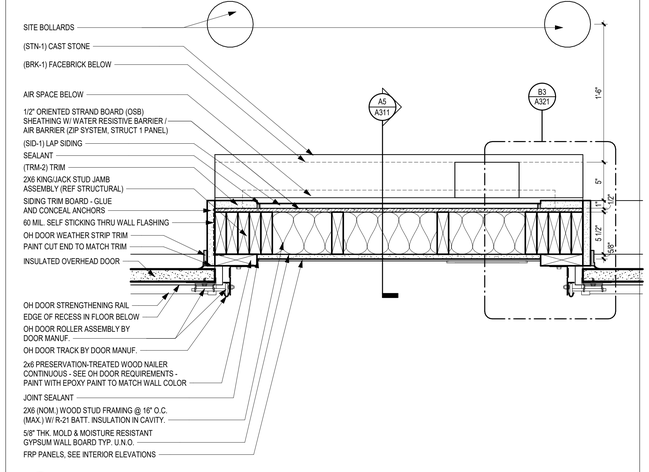
1 1/2" = 1'-0"

#	EXT. BLDG. MTLS. LEGEND
MARK	DESCRIPTION
BRK-1	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: RUNNING BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS: 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
BRK-2	**CLAY FACE BRICK VENEER** **BASIS OF DESIGN**: HEBRON BRICK CO. **COLOR**: SLATE GRAY. **SIZE**: MODULAR (3 5/8" X 2 1/4" X 7 5/8") **BOND**: SOLDIER ACCENT STACK BOND **MORTAR**: SGS 60H WHITE **DISTRIBUTED BY**: MIDWEST BLOCK & BRICK **CONTACT:** CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL.
EXP-1	**EXTERIOR PAINT**: EXTERIOR HOLLOW FRAMES & INSUL. H.M. DOORS **MANUFACTURER**: SHERWIN WILLIAMS **SPECIAL INSTRUCTIONS**: ALL SURFACES SHALL BE CLEANED. IF SHEEN IS PRESENT, SURFACE SHALL BE SANDED DOWN FOR MECHANICAL ADHESION. **PRIME COAT**: B51W1150 EXTREME BOND **2 -COAT FINISH**: TWO FINISH COATS B53W2251 PRO-INDUSTRIAL WATER-BASED ALKYD URETHANE ENAMEL, LOW SHEEN. **COLOR**: SW 2849 WESTCHESTER GRAY.
EXP-2	**EXTERIOR PAINT**: OVERHEAD DOORS **MANUFACTURER**: WAYNE DALTON **BASE BID COLOR**: WHITE POWDER COAT FINISH **ALTERNATE COLOR**: RAL 5003 SAPPHIRE BLUE
MTL-1	**GUTTERS & DOWNSPOUTS** **BASIS OF DESIGN:** McELROY **COLOR:** REGAL WHITE **TEXTURE:** PREFINISHED **PROFILE:** OGEE **SIZE:** 6" W x 5" H GUTTERS, 4" L x 3" W DOWNSPOUTS
SHI-1	**FIBERGLASS ASPHALT SHINGLES** **BASIS OF DESIGN**: OWENS CORNING **SERIES**: DURATION **COLOR**: SIERRA GRAY
SID-1	**EXTERIOR LAP SIDING** **PRODUCT**: LAP SIDING (SEE SPECIFICATIONS) **COLOR**: TIMBER BARK GRAY **TEXTURE**: CEDAR **SIZE**: 7" EXPOSURE
SOF-1	**EXTERIOR VENTED SOFFIT**: **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. VENTED
SOF-2	**EXTERIOR NON-VENTED SOFFIT**: **PRODUCT**: SOFFIT BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. NON-VENTED
STF-1	**STOREFRONT & GLAZING** **BASIS OF DESIGN**: YKK ARCHITECTURAL PRODUCTS **PRODUCT:** YES 45 TU, 2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM. **FINISH**: YK1N BLACK ANODIZED PLUS **GLAZING**: 1 " INSULATED GLASS VITRO SOLARBAN 60 (2) + CLEAR. - REFERENCE GLAZING SCHEDULE AND ARCHITECTURAL SPECS.
STN-1	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-2	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
STN-3	**CAST STONE**: CAPS AND/OR LEDGE STONES **BASIS OF DESIGN**: MARCSTONE, **STYLE**: QUARRY SELECT **COLOR**: INDIANA GRAY 4025, **MORTAR**: SGS 60H WHITE. **SIZE/PATTERN:** REFER TO CAST STONE PROFILES
TRM-1	**FASCIA:** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 11.25" WIDE
TRM-2	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE
TRM-3	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 9.25" WIDE
TRM-4	**SIDING TRIM** **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE CORNER
TRM-5	**SIDING CORNER TRIM**: OUTSIDE CORNER **PRODUCT**: TRIM BY SIDING MFGR (SEE SPECIFICATIONS) **COLOR**: ARCTIC WHITE. **TEXTURE**: BRUSHED SMOOTH **SIZE**: 5/4 THK X 5.50" WIDE CORNER



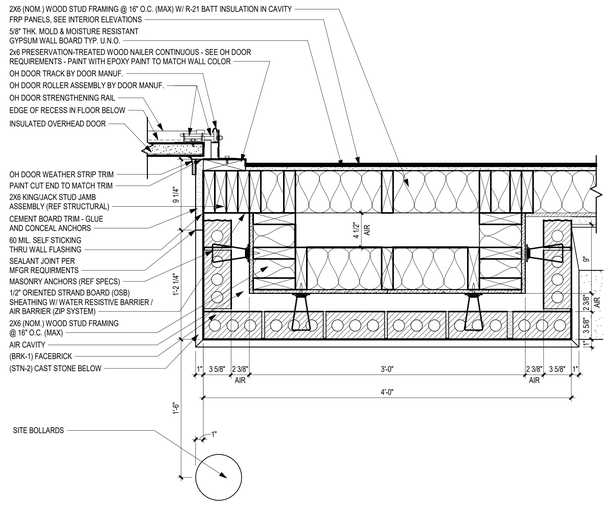
B1 PLAN DETAIL - ENTRANCE PILASTER 1

1 1/2" = 1'-0"



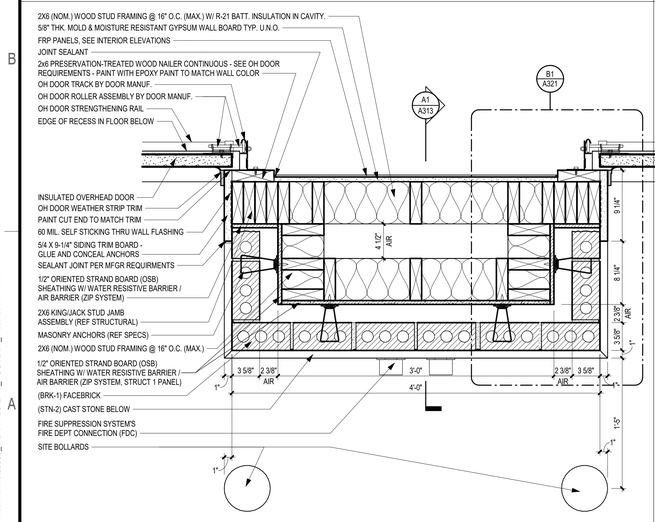
B3 PLAN DETAIL - APP BAY BACK EXTERIOR WALL

1 1/2" = 1'-0"



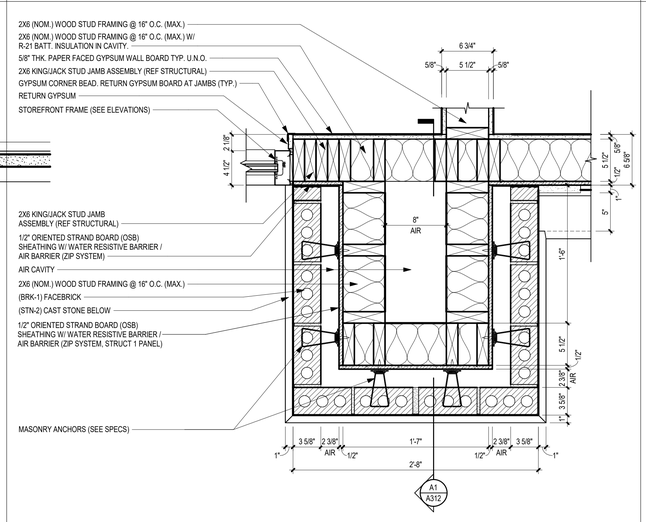
B5 PLAN DETAIL - APP BAY PILASTER 2

1 1/2" = 1'-0"



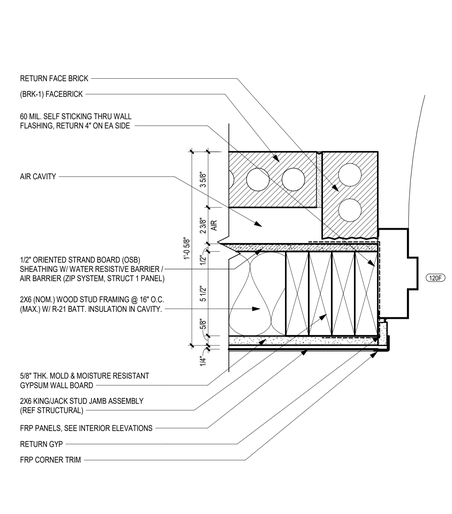
A1 PLAN DETAIL - APP BAY PILASTER 1

1 1/2" = 1'-0"



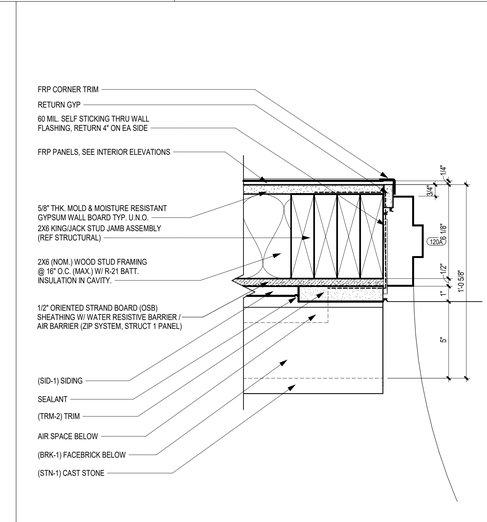
A3 PLAN DETAIL - ENTRANCE PILASTER 2

1 1/2" = 1'-0"



A5 PLAN DETAIL - EXT DOOR JAMB @ BRICK

3" = 1'-0"



A7 PLAN DETAIL - EXT DOOR JAMB @ SIDING

3" = 1'-0"

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STATE OF MISSOURI — ROY A. MANGAN — NUMBER A-6661 — REGISTERED ARCHITECT

Roy A. Mangan 10/16/2026

MO Architect License No: A-6661
Expires: 12/31/2026

[Consultants]

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Revision	Date
	PERMIT DOCUMENTS	08/15/2025
	PERMIT DOCUMENTS - REVISED	10/02/2025
	BIDDING DOCUMENTS	10/16/2026

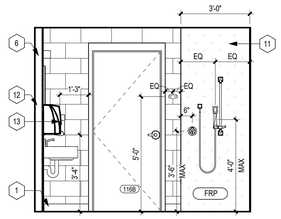
PLAN DETAILS

Project No. 25083

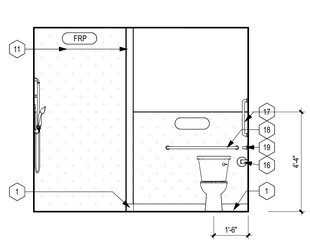
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Date 10/16/2026

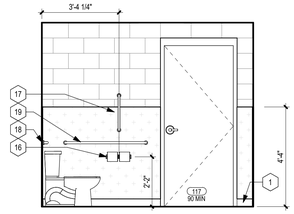
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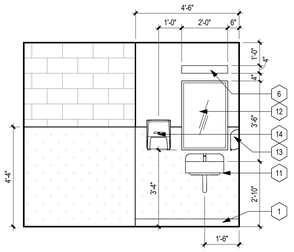
D1 DECON TOILET - NORTH
3/8" = 1'-0"



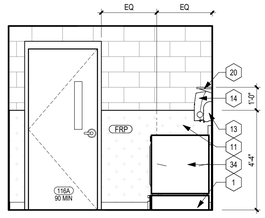
D2 DECON TOILET - EAST
3/8" = 1'-0"



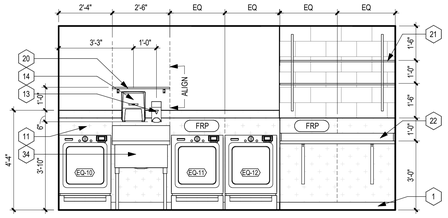
D3 DECON TOILET - SOUTH
3/8" = 1'-0"



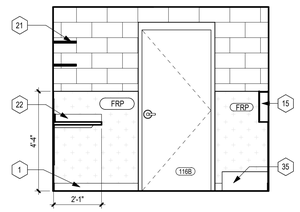
D4 DECON TOILET - WEST
3/8" = 1'-0"



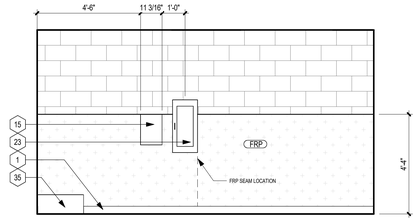
C1 DECON LAUNDRY - NORTH
3/8" = 1'-0"



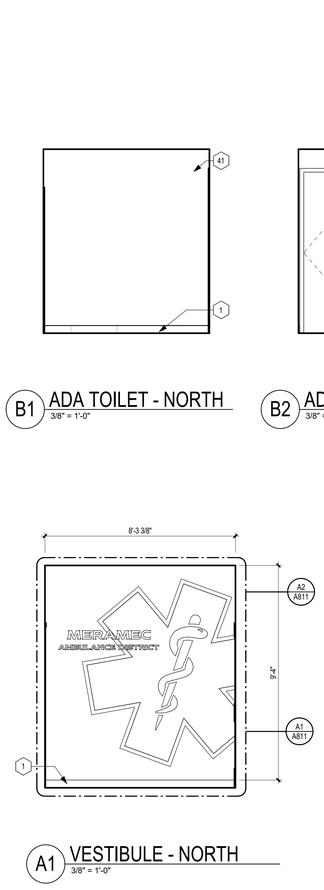
C2 DECON LAUNDRY - EAST
3/8" = 1'-0"



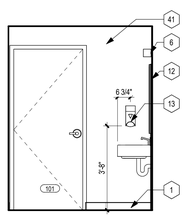
C3 DECON LAUNDRY - SOUTH
3/8" = 1'-0"



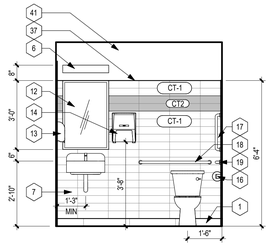
C5 DECON LAUNDRY - WEST
3/8" = 1'-0"



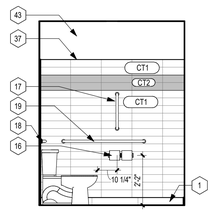
B1 ADA TOILET - NORTH
3/8" = 1'-0"



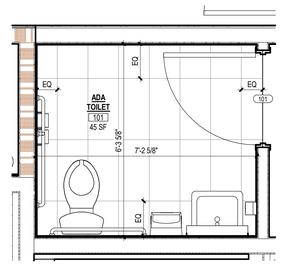
B2 ADA TOILET - EAST
3/8" = 1'-0"



B3 ADA TOILET - SOUTH
3/8" = 1'-0"

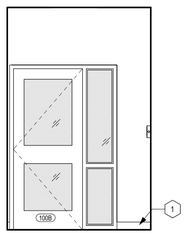


B4 ADA TOILET - WEST
3/8" = 1'-0"

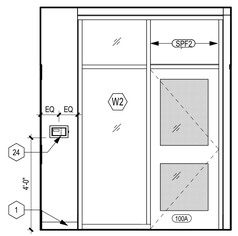


B5 ADA TOILET FLOOR TILE PATTERN
1/2" = 1'-0"

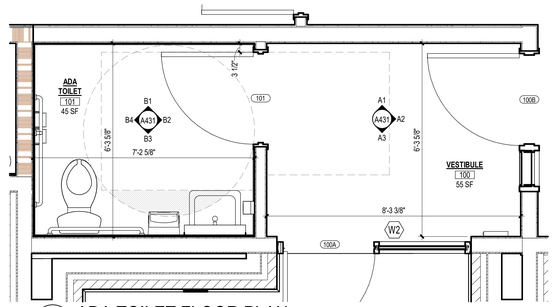
A1 VESTIBULE - NORTH
3/8" = 1'-0"



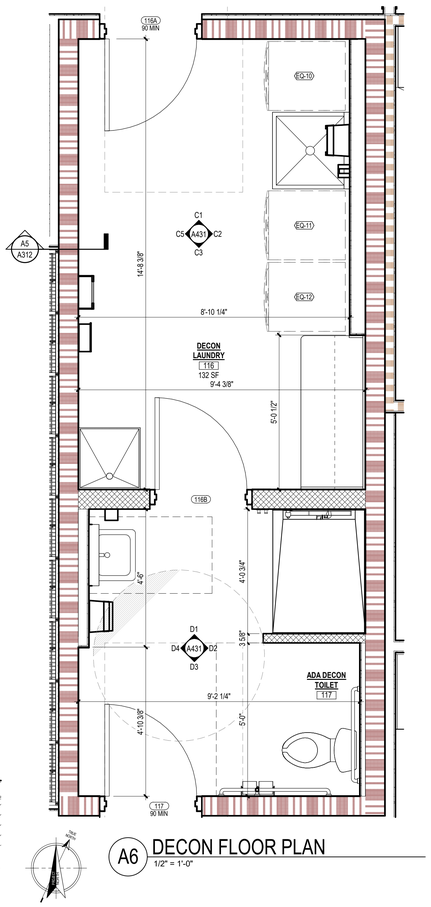
A2 VESTIBULE - EAST
3/8" = 1'-0"



A3 VESTIBULE - SOUTH
3/8" = 1'-0"



A4 ADA TOILET FLOOR PLAN
1/2" = 1'-0"



A6 DECON FLOOR PLAN
1/2" = 1'-0"

KEYED NOTES INT. ELEV.

MARK	DESCRIPTION
1	BASE AS SCHEDULED , SEE FINISH FLOOR PLAN
6	WALL MOUNTED LIGHT SCONCE, REFERENCE ELECTRICAL
7	CERAMIC TILE WAINSCOT HEIGHT AS INDICATED, PAINT ABOVE. SEE FINISH SCHEDULE. PROVIDE CONCEALED SHIM AT MIRROR SO THAT IT SITS LEVEL AND SMOOTH WITH FACE OF TILE.
11	FRP WAINSCOT SEAM LOCATON AS INDICATED, FULL HEIGHT FRP PANELS IN THE SHOWER. INCLUDE ALL TRIM CAPS AND CORNER TRIM. SEAL ENTIRE PERIMETER WITH CLEAR SEALANT.
12	24x36" MIRROR
13	TOUCHLESS SOAP DISPENSER
14	SURFACE-MOUNTED ROLL PAPER TOWEL DISPENSER
15	FIRST AID
16	DOUBLE ROLL TOILET PAPER DISPENSER
17	18" VERTICAL GRAB BAR
18	36" HORIZONTAL GRAB BAR
19	42" HORIZONTAL GRAB BAR
20	STAINLESS STEEL SHELF
21	PLASTIC LAMINATE SHELVES
22	SOLID SURFACE COUNTERTOP & 4"H BACKSPLASH, WATERFALL THE TOP DOWN TO COFFEE BAR KITCHEN LOCATION
23	FIRE EXTINGUISHER - SEE SPECS FOR MOUNTING / PARTITION TYPE
24	FIRE ALARM ANNUNCIATOR PANEL
34	UTILITY SINK, SEE PLUMBING
35	MOP SINK, SEE PLUMBING
37	METAL STRIP ABOVE TILE
41	5/8" THK MOLD & MOISTURE RESISTANT GYPSUM WALL BOARD (TYPICAL ALL KITCHENS & BATHROOMS & APP BAY U.N.O.)
43	5/8" THK MOLD & MOISTURE RESISTANT AND TYPE "X" GYPSUM WALL BOARD (TYPICAL RATED APP BAY WALLS U.N.O.)

EQUIPMENT SCHEDULE

MARK	QTY	DESCRIPTION	SUPPLY / INSTALL BY
EQ-1	1	36" WIDE ELECTRIC RANGE	OWNER / CONTRACTOR
EQ-2	1	36" WIDE VENT HOOD W/ OPTIONAL STRAIGHT DECORATIVE DUCT WRAPPER (SHROUD) -REF MEP	CONTRACTOR / CONTRACTOR
EQ-3	1	DISHWASHER	OWNER / CONTRACTOR
EQ-4	1	COFFEE MACHINE	OWNER / OWNER
EQ-5	3	36" WIDE FRENCH DOOR REFRIDGERATOR	OWNER / CONTRACTOR
EQ-6	1	99" TV MONITOR, GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-7	2	65" TV MONITOR, GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-8	1	COUNTERTOP STYLE MICROWAVE	OWNER / OWNER
EQ-9	2	HOSE REEL - SEE PLUMBING	CONTRACTOR / CONTRACTOR
EQ-10	1	WASHER - DIRTY	OWNER / CONTRACTOR
EQ-11	1	WASHER	OWNER / CONTRACTOR
EQ-12	1	DRYER	OWNER / CONTRACTOR
EQ-13	2	48" TV MONITOR, W/ WALL MOUNTED EXTENDABLEARM (24" MIN) TV BRACKET (BY OWNER) - GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-14	1	8-BURNER GRILL	OWNER / OWNER

STATE OF MISSOURI
ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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[Consultants]

PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

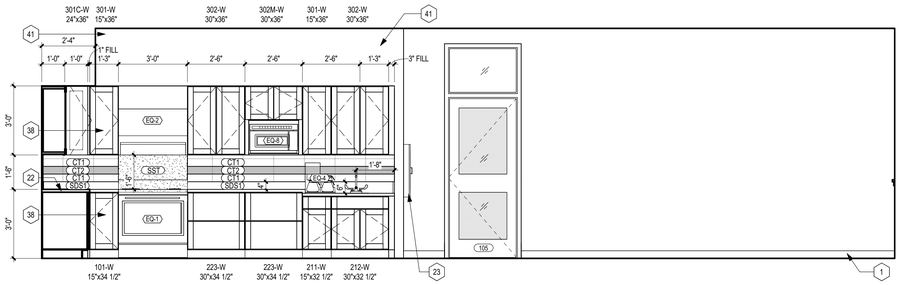
INTERIOR ELEVATIONS DECON

Project No.
25083

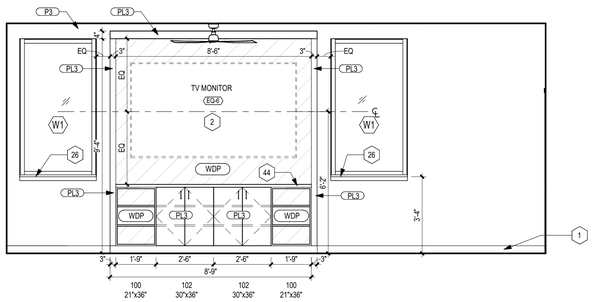
Sheet No.
A431

Date
10/16/2026

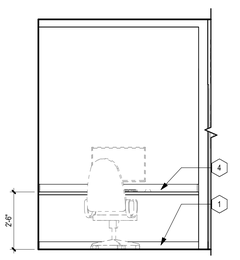
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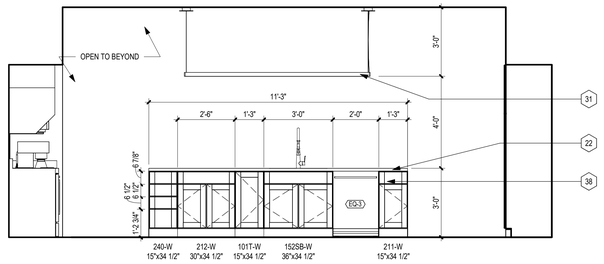
D1 KITCHEN & DAY ROOM - EAST VIEW 2
3/8" = 1'-0"



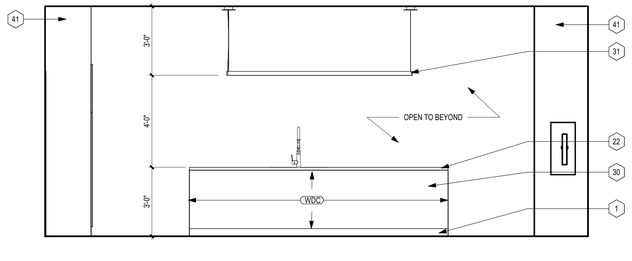
D4 DAY ROOM - SOUTH
3/8" = 1'-0"



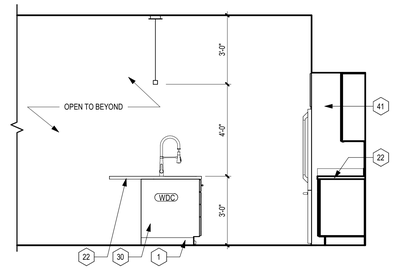
D6 REPORT - NORTH
3/8" = 1'-0"



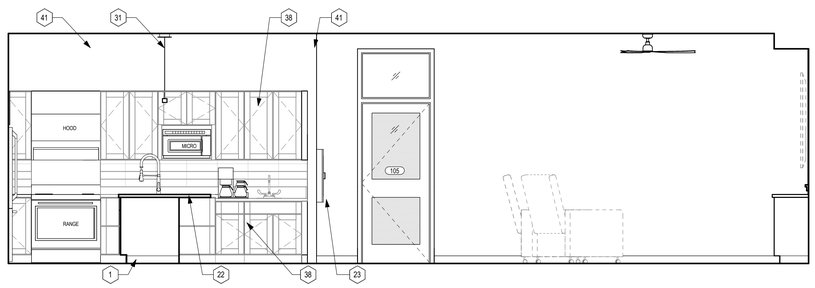
C1 KITCHEN - SOUTH
3/8" = 1'-0"



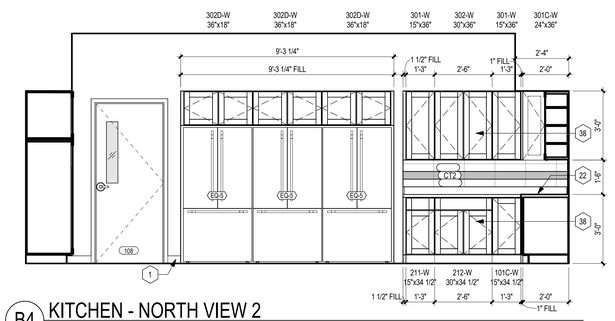
C3 KITCHEN - NORTH VIEW 1
3/8" = 1'-0"



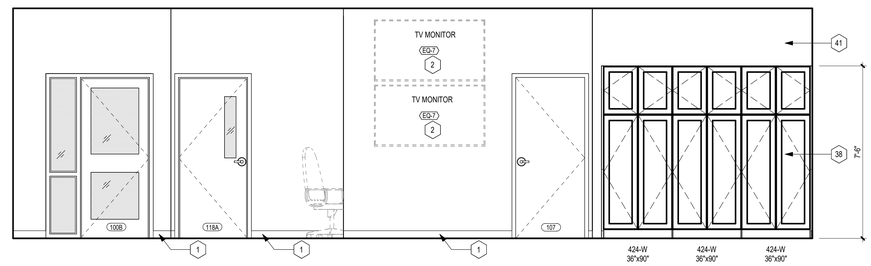
C5 KITCHEN - WEST
3/8" = 1'-0"



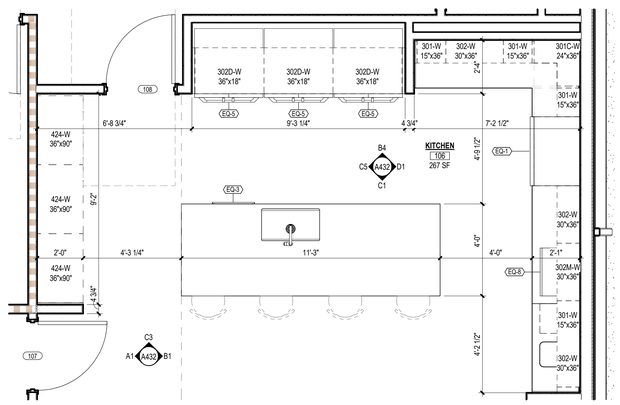
B1 KITCHEN & DAY ROOM - EAST VIEW 1
3/8" = 1'-0"



B4 KITCHEN - NORTH VIEW 2
3/8" = 1'-0"



A1 REPORT & KITCHEN - WEST
3/8" = 1'-0"



A4 KITCHEN & DAY ROOM FLOOR PLAN
3/8" = 1'-0"

KEYED NOTES INT. ELEV.

MARK	DESCRIPTION
1	BASE AS SCHEDULED , SEE FINISH FLOOR PLAN
2	PROVIDE BLOCKING AT ALL MONITOR LOCATIONS
4	25"D PLASTIC LAMINATE COUNTER, 4"H BACKSPLASH AND METAL UNDER COUNTER SUPPORT BRACKETS AS INDICATED. AT EXTERIOR WINDOW LOCATIONS RIP THE BACKSPLASH DOWN TO FIT BELOW WINDOW SILLS, SEE FINISH SCHEDULE
22	SOLID SURFACE COUNTERTOP & 4"H BACKSPLASH, WATERFALL THE TOP DOWN TO COFFEE BAR KITCHEN LOCATION
23	FIRE EXTINGUISHER - SEE SPECS FOR MOUNTING / PARTITION TYPE
26	SOLID SURFACE WINDOW SILLS TYP, NOTE DEPTHS VARY - SEE FINISH SCHED.
30	WOOD PANELING ALL SIDES OF ISLAND, 1" WOOD ENDCAPS AND CORNER GUARDS STAINED TO MATCH WOOD CABINETRY WDC. SEE FINISH SCHEDULE
31	SUSPENDED LINEAR PENDANT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
38	CUSTOM WOOD CABINETRY WALL, BASE, ISLAND & PANTRIES, SEE FINISH SCHEDULE
41	5/8" THK MOLD & MOISTURE RESISTANT GYPSUM WALL BOARD (TYPICAL ALL KITCHENS & BATHROOMS & APP BAY U.N.O.)
44	SOLID SURFACE COUNTERTOP

EQUIPMENT SCHEDULE

MARK	QTY	DESCRIPTION	SUPPLY / INSTALL BY
EQ-1	1	36" WIDE ELECTRIC RANGE	OWNER / CONTRACTOR
EQ-2	1	36" WIDE VENT HOOD W/ OPTIONAL STRAIGHT DECORATIVE DUCT WRAPPER (SHROUD) -REF MEP	CONTRACTOR / CONTRACTOR
EQ-3	1	DISHWASHER	OWNER / CONTRACTOR
EQ-4	1	COFFEE MACHINE	OWNER / OWNER
EQ-5	3	36" WIDE FRENCH DOOR REFRIDGERATOR	OWNER / CONTRACTOR
EQ-6	1	98" TV MONITOR, GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-7	2	65" TV MONITOR, GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-8	1	COUNTERTOP STYLE MICROWAVE	OWNER / OWNER
EQ-9	2	HOSE REEL - SEE PLUMBING	CONTRACTOR / CONTRACTOR
EQ-10	1	WASHER - DIRTY	OWNER / CONTRACTOR
EQ-11	1	WASHER	OWNER / CONTRACTOR
EQ-12	1	DRYER	OWNER / CONTRACTOR
EQ-13	2	48" TV MONITOR, W/ WALL MOUNTED EXTENDABLEARM (24" MIN) TV BRACKET (BY OWNER) - GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-14	1	8-BURNER GRILL	OWNER / OWNER

STATE OF MISSOURI
ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

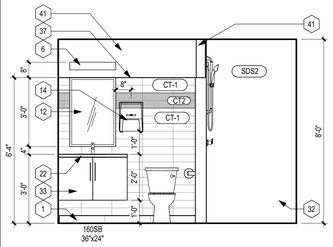
No.	Date	Revision
	04/15/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

INTERIOR ELEVATIONS KITCHEN

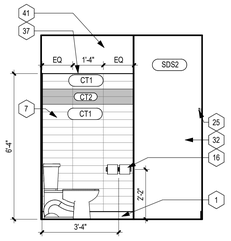
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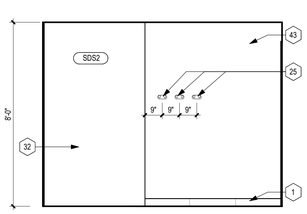
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SCALE: 3/4" = 1'-0" 2" 1' 6" 0
SCALE: 3/8" = 1'-0" 4" 2" 0
SCALE: 1/4" = 1'-0" 8" 4" 2" 0
SCALE: 1/8" = 1'-0" 16" 8" 4" 0
SCALE: 3/32" = 1'-0" 24" 16" 8" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0
SCALE: 1/2" = 1'-0" 2" 1" 0



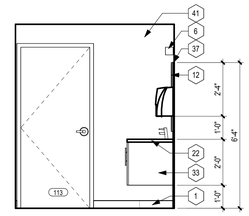
E1 TOILET 1 - NORTH
3/8" = 1'-0"



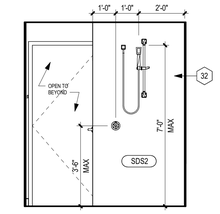
E2 TOILET 1 - EAST
3/8" = 1'-0"



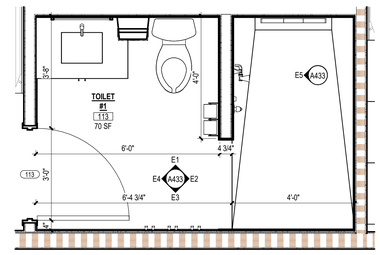
E3 TOILET 1 - SOUTH
3/8" = 1'-0"



E4 TOILET 1 - WEST
3/8" = 1'-0"



E5 TOILET 1 - PARTIAL WEST
3/8" = 1'-0"



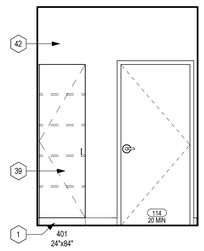
E6 TOILET 1 FLOOR PLAN
1/2" = 1'-0"

KEYED NOTES INT. ELEV.

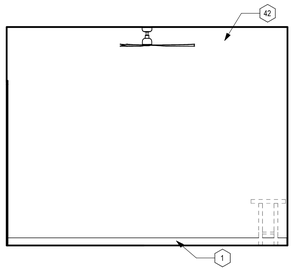
MARK	DESCRIPTION
1	BASE AS SCHEDULED , SEE FINISH FLOOR PLAN
2	PROVIDE BLOCKING AT ALL MONITOR LOCATIONS
5	MANUAL BLACKOUT WINDOW SHADE, TYP. SEE FINISH SCHEDULE
6	WALL MOUNTED LIGHT SCONCE. REFERENCE ELECTRICAL
7	CERAMIC TILE WAINSCOT HEIGHT AS INDICATED, PAINT ABOVE, SEE FINISH SCHEDULE. PROVIDE CONCEALED SHIM AT MIRROR SO THAT IT SITS LEVEL AND SMOOTH WITH FACE OF TILE.
12	24x36" MIRROR
14	SURFACE-MOUNTED ROLL PAPER TOWEL DISPENSER
16	DOUBLE ROLL TOILET PAPER DISPENSER
22	SOLID SURFACE COUNTERTOP & 4"H BACKSPLASH, WATERFALL THE TOP DOWN TO COFFEE BAR KITCHEN LOCATION
25	WALL HOOK
26	SOLID SURFACE WINDOW SILLS TYP. NOTE DEPTHS VARY - SEE FINISH SCHED.
32	SOLID SURFACE SHOWER SURROUNDS FULL HEIGHT
33	SOLID PHENOLIC FLOATING VANITY CABINET WITH SOLID SURFACE COUNTERTOP AND UNDERMOUNT SINK, SEE PLUMBING
37	METAL STRIP ABOVE TILE
39	CUSTOM BUILT IN WARDROBE UNITS, SEE FINISH SCHEDULE.
40	TYPICAL BUNKROOM DESK; 24" DEEP LAMINATE WORKSURFACE (RADIUS OUTSIDE CORNER) WITH 4" H BACKSPLASH, CONNECTED TO CASEWORK SIDE WALL AND CONNECTED TO BACK WALL STUDS WITH ANGLED SUPPORT BRACKETS. PROVIDE BLOCKING WHERE NEEDED.
41	5/8" THK MOLD & MOISTURE RESISTANT GYPSUM WALL BOARD (TYPICAL ALL KITCHENS & BATHROOMS & APP BAY U.N.O.)
42	5/8" THK TYPE "X" GYPSUM WALL BOARD (TYPICAL RATED WALLS U.N.O.)
43	5/8" THK MOLD & MOISTURE RESISTANT AND TYPE "X" GYPSUM WALL BOARD (TYPICAL RATED APP BAY WALLS U.N.O.)

EQUIPMENT SCHEDULE

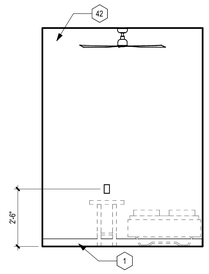
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EQ-13	2	48" TV MONITOR, W/ WALL MOUNTED EXTENDABLEARM (24" MIN) TV BRACKET (BY OWNER) - GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-14	1	8-BURNER GRILL	OWNER / OWNER



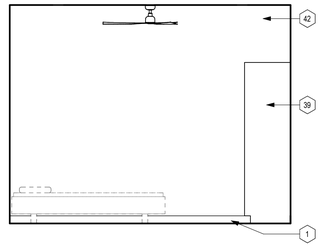
C1 PART TIME BUNK - NORTH
3/8" = 1'-0"



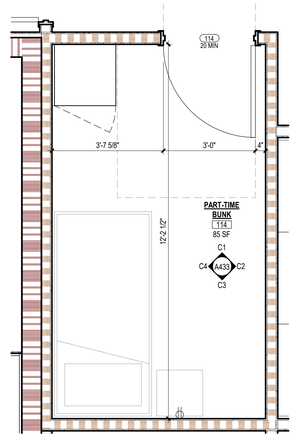
C2 PART TIME BUNK - EAST
3/8" = 1'-0"



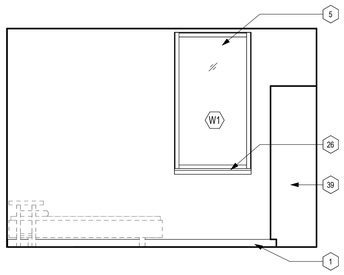
C3 PART TIME BUNK - SOUTH
3/8" = 1'-0"



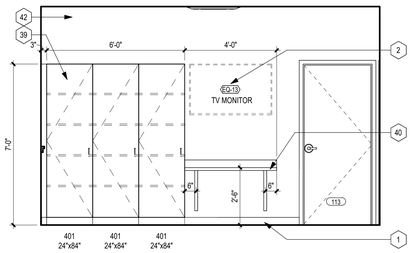
C4 PART TIME BUNK - WEST
3/8" = 1'-0"



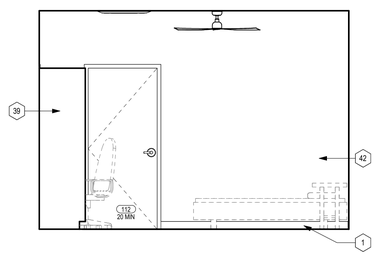
C5 PART TIME BUNK FLOOR PLAN
1/2" = 1'-0"



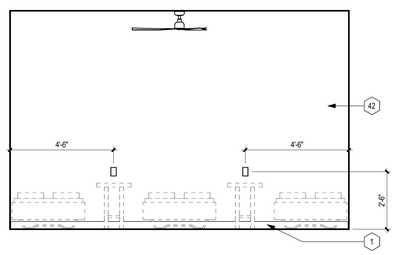
B1 FULL TIME BUNK - NORTH
3/8" = 1'-0"



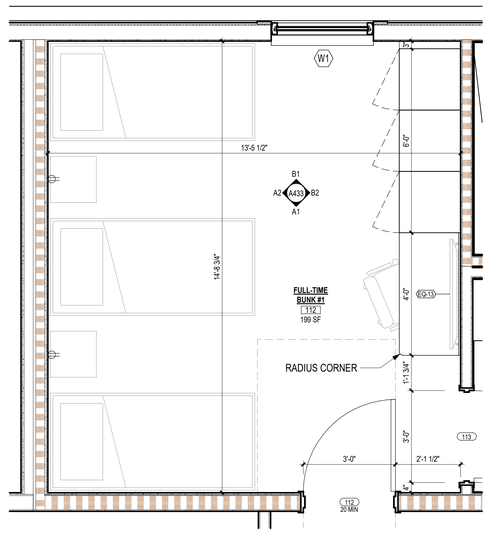
B2 FULL TIME BUNK - EAST
3/8" = 1'-0"



A1 FULL TIME BUNK - SOUTH
3/8" = 1'-0"



A2 FULL TIME BUNK - WEST
3/8" = 1'-0"



A5 BUNKROOM #1 FLOOR PLAN
1/2" = 1'-0"

ROY A. MANGAN
NUMBER A-6661
ARCHITECT
STATE OF MISSOURI
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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DISTRICT - STATION NO. 4
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PACIFIC, MO 63069

No.	Date	Revision
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	10/16/2026	BIDDING DOCUMENTS

INTERIOR ELEVATIONS BUNKS

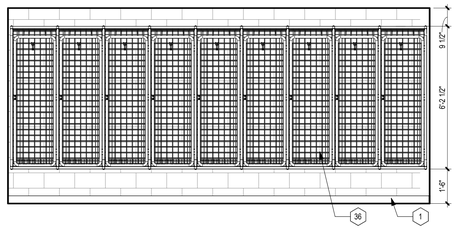
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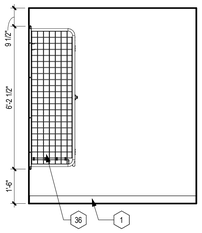
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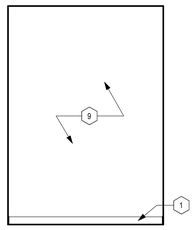
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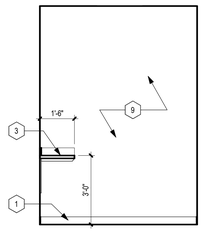
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3/8" = 1'-0"



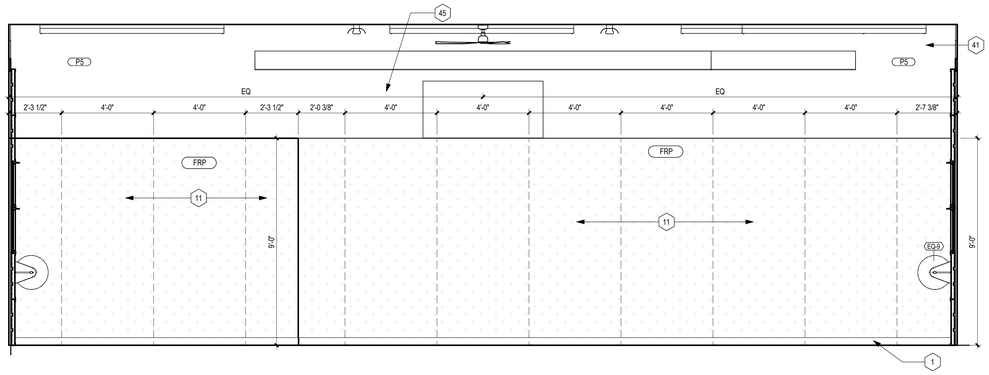
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3/8" = 1'-0"



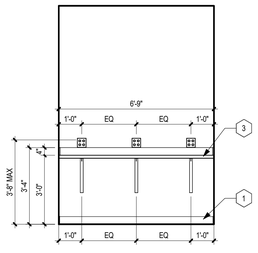
E3 EMS READY - WEST
3/8" = 1'-0"



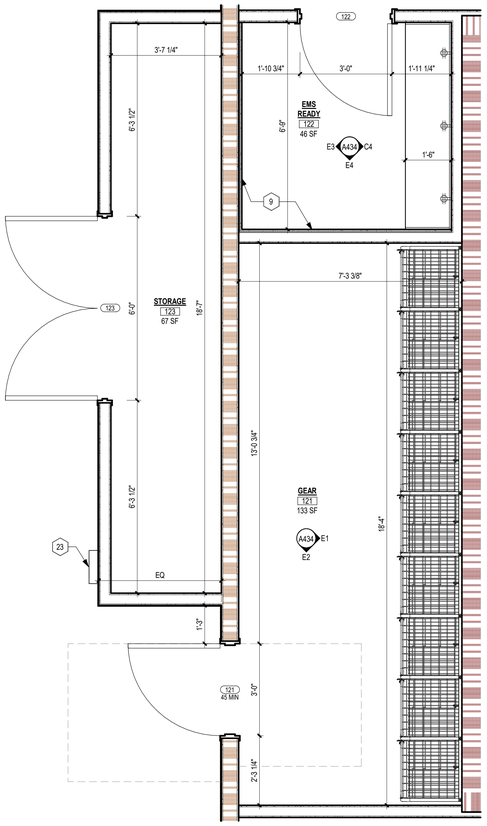
E4 EMS READY - SOUTH
3/8" = 1'-0"



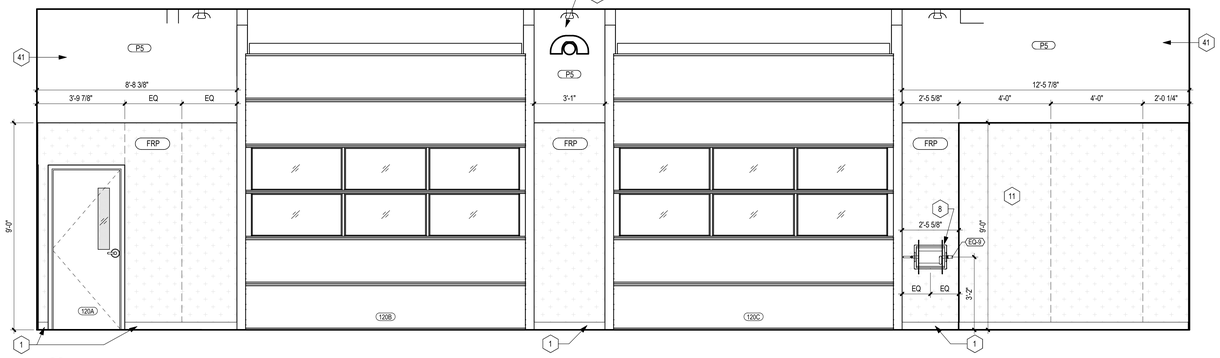
C1 APP BAY - WEST
3/8" = 1'-0"



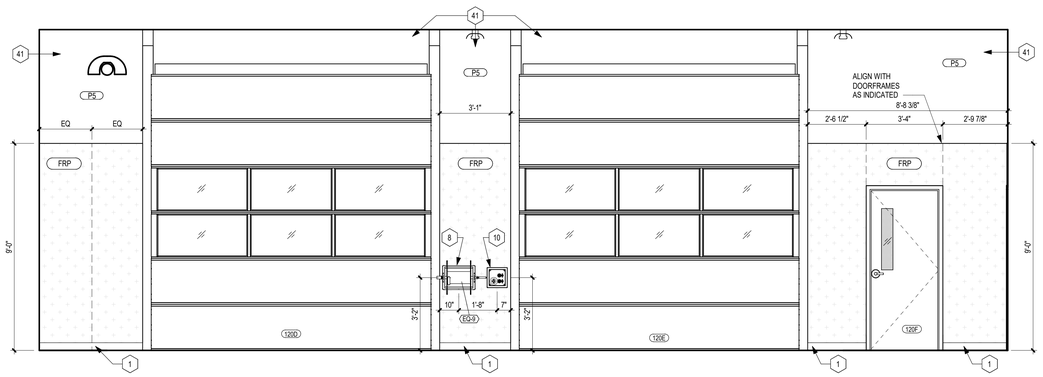
C4 EMS READY - EAST
3/8" = 1'-0"



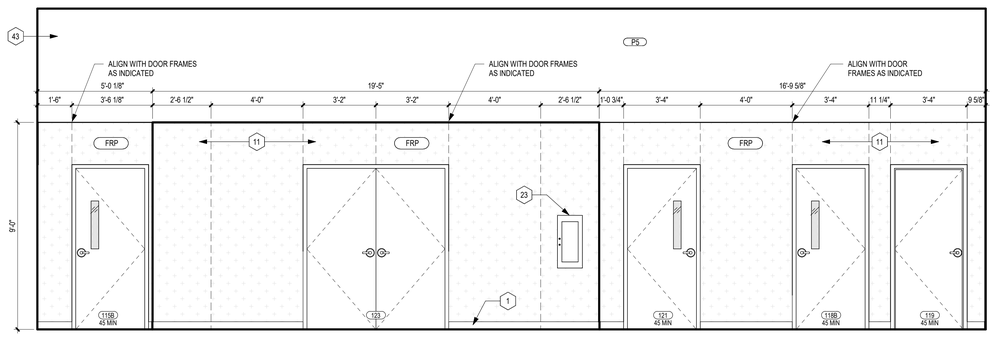
C6 GEAR FLOOR PLAN
1/2" = 1'-0"



B1 APP BAY - SOUTH
3/8" = 1'-0"



A1 APP BAY - NORTH
3/8" = 1'-0"



A4 APP BAY - EAST
3/8" = 1'-0"

KEYED NOTES INT. ELEV.

MARK	DESCRIPTION
1	BASE AS SCHEDULED , SEE FINISH FLOOR PLAN
3	16"D PLASTIC LAMINATE COUNTER, 4"H BACKSPLASH AND METAL UNDER COUNTER SUPPORT BRACKETS AS INDICATED. AT EXTERIOR WINDOW LOCATIONS RIP THE BACKSPLASH DOWN TO FIT BELOW WINDOW SILLS, SEE FINISH SCHEDULE
8	WALL MOUNTED HOSE REEL, REFERENCE PLUMBING DRAWINGS.
9	BIN WALL BY OWNER, CONTRACTOR TO PROVIDE 5/8" PLYWOOD BLOCKING BEHIND GYPSUM BOARD, FROM FLOOR TO 8'-0" HT. PROVIDE TWO LAYERS OF 5/8" GYPSUM ABOVE PLYWOOD TO FINISH WALL FLUSH.
10	HOSE BIBB WALL BOX
11	FRP WAINSCOT SEAM LOCATON AS INDICATED. FULL HEIGHT FRP PANELS IN THE SHOWER. INCLUDE ALL TRIM CAPS AND CORNER TRIM. SEAL ENTIRE PERIMETER WITH CLEAR SEALANT.
23	FIRE EXTINGUISHER - SEE SPECS FOR MOUNTING / PARTITION TYPE
36	PROVIDE & INSTALL GEAR GRID, QUANTITY AS INDICATED, BLUE COLOR-SUBMIT STANDARD COLOR CHART FOR APPROVAL.
41	5/8" THK MOLD & MOISTURE RESISTANT GYPSUM WALL BOARD (TYPICAL ALL KITCHENS & BATHROOMS & APP BAY U.N.O.)
43	5/8" THK MOLD & MOISTURE RESISTANT AND TYPE "X" GYPSUM WALL BOARD (TYPICAL RATED APP BAY WALLS U.N.O.)
45	DAMPER GRILL

EQUIPMENT SCHEDULE

MARK	QTY	DESCRIPTION	SUPPLY / INSTALL BY
EQ-1	1	36" WIDE ELECTRIC RANGE	OWNER / CONTRACTOR
EQ-2	1	36" WIDE VENT HOOD W/ OPTIONAL STRAIGHT DECORATIVE DUCT WRAPPER (SHROUD) -REF MEP	CONTRACTOR / CONTRACTOR
EQ-3	1	DISHWASHER	OWNER / CONTRACTOR
EQ-4	1	COFFEE MACHINE	OWNER / OWNER
EQ-5	3	36" WIDE FRENCH DOOR REFRIDGERATOR	OWNER / CONTRACTOR
EQ-6	1	98" TV MONITOR, GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-7	2	65" TV MONITOR, GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-8	1	COUNTERTOP STYLE MICROWAVE	OWNER / OWNER
EQ-9	2	HOSE REEL - SEE PLUMBING	CONTRACTOR / CONTRACTOR
EQ-10	1	WASHER - DIRTY	OWNER / CONTRACTOR
EQ-11	1	WASHER	OWNER / CONTRACTOR
EQ-12	1	DRYER	OWNER / CONTRACTOR
EQ-13	2	49" TV MONITOR, W/ WALL MOUNTED EXTENDABLEARM (24" MIN) TV BRACKET (BY OWNER) - GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-14	1	8-BURNER GRILL	OWNER / OWNER

STATE OF MISSOURI
ROY A. MANGAN
LICENSED
NUMBER
A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Revision	Date
	04/10/2026 PERMIT DOCUMENTS	
	10/02/2026 PERMIT DOCUMENTS - REVISED	
	10/16/2026 BIDDING DOCUMENTS	

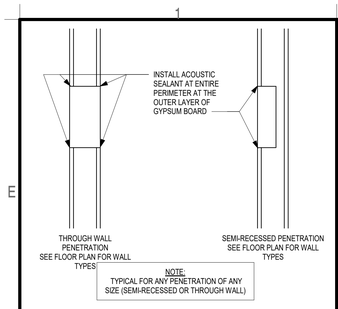
INTERIOR ELEVATIONS APP BAY

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25083

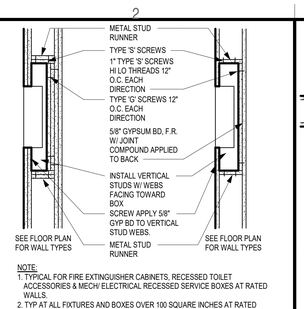
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10/16/2026

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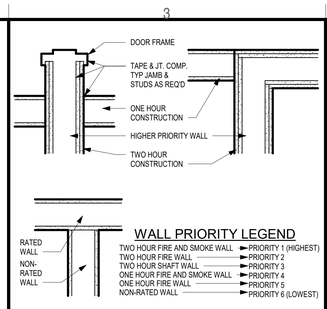


E1 ACOUSTIC WALL FIXTURE/BOX
N.T.S.

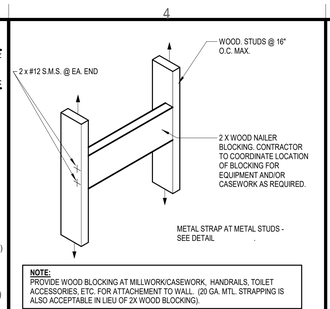


NOTE:
1. TYPICAL FOR FIRE EXTINGUISHER CABINETS, RECESSED TOILET ACCESSORIES & MECH/ ELECTRICAL RECESSED SERVICE BOXES AT RATED WALLS.
2. TYP AT ALL FIXTURES AND BOXES OVER 100 SQUARE INCHES AT RATED WALLS.

E2 RATED WALL FIXTURE/BOX RECESS
N.T.S.

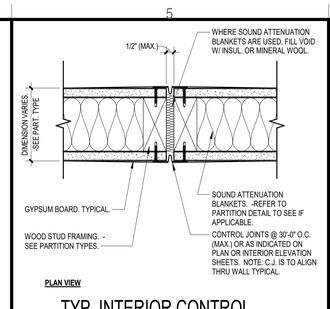


E3 WALL PRIORITIES (RATED WALLS)
N.T.S.



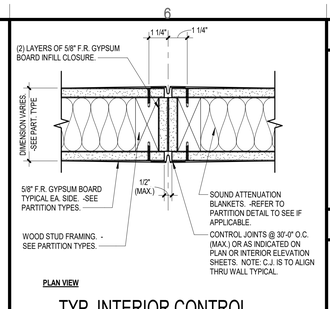
NOTE:
PROVIDE WOOD BLOCKING AT MILLWORK/CASEWORK, HANDRAILS, TOILET ACCESSORIES, ETC. FOR ATTACHEMENT TO WALL. (20 GA. MTL. STRAPPING IS ALSO ACCEPTABLE IN LIEU OF 2X WOOD BLOCKING).

E4 TYPICAL WALL BACKING DETAIL
N.T.S.



PLAN VIEW

E5 TYP. INTERIOR CONTROL JOINT (NON-RATED) "CJ-01"
3" = 1'-0"



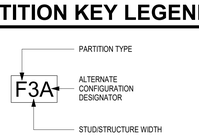
PLAN VIEW

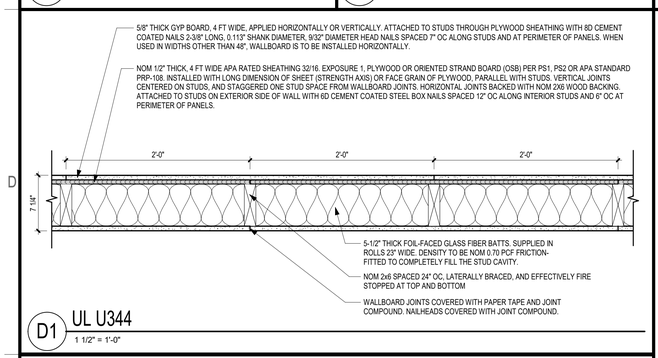
E6 TYP. INTERIOR CONTROL JOINT (1 HR. RATED) "CJ-02"
3" = 1'-0"

GENERAL PART TYPE NOTES

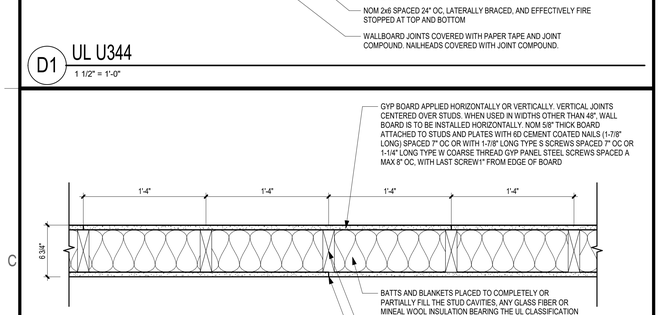
1. INSTALL DEFLECTION TRACK AT TOP OF ALL FULL HEIGHT WALLS.
2. INSTALL MOISTURE RESISTANT GYPSUM BOARD AT ALL WALLS ADJACENT TO WATER.
3. PROVIDE STENCILED OR STICKER RATING IDENTIFICATION OF EACH RATED PARTITION AT 10'-0" ON CENTER (MINIMUM ONCE PER ROOM) ABOVE THE CEILING. LETTERING TO BE MINIMUM 1/2" IN HEIGHT AND STATE "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS".
4. SEE DETAILS THIS SHEET FOR RATED WALL INTERSECTION PRIORITY INSTALLATION.
5. SEE DETAILS THIS SHEET FOR DETAILS OF WALL CONSTRUCTION AT BOXES RECESSED IN RATED WALLS.
6. PARTITIONS THAT INCLUDE SOUND INSULATION & SEALANT ARE TO BE CONSIDERED ACOUSTIC PARTITIONS AND USE THE ACOUSTIC TERMINATION DETAILS.
7. RATED DESIGN ASSEMBLIES LISTED ARE BASIS OF DESIGN ONLY. ALTERNATES WILL BE ACCEPTED BASED UPON MATERIALS USED SO LONG THAT THE INDICATED RATING IS MAINTAINED.
8. INSTALL CONTROL JOINTS IN METAL STUD WALLS PER DETAIL
9. S.A.B. = SOUND ATTENUATION BATT INSULATION

PARTITION KEY LEGEND

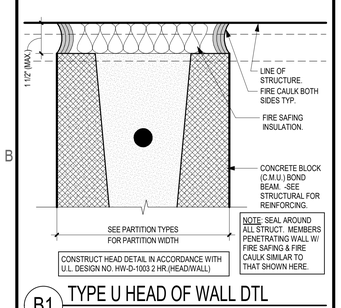




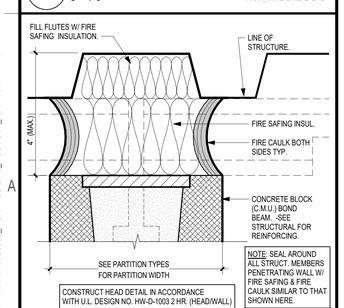
D1 UL U344
1 1/2" = 1'-0"



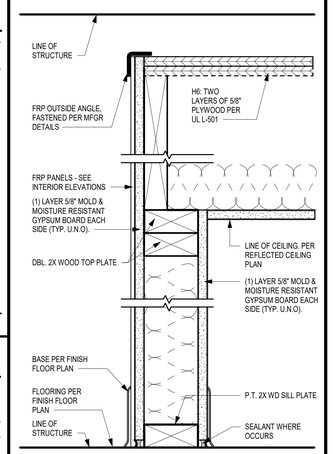
C1 UL U359
1 1/2" = 1'-0"



B1 TYPE U HEAD OF WALL DTL
6" = 1'-0"
PART_TYPE U HEAD DTL



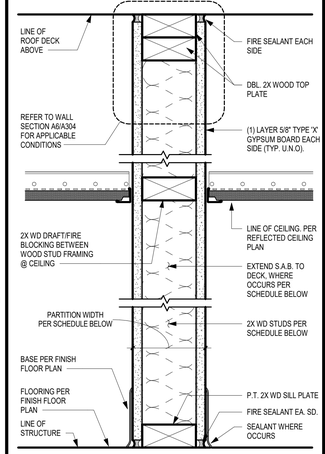
A1 TYPE V HEAD OF WALL DTL
6" = 1'-0"
PART_TYPE V HEAD DTL



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
H4	2X4	4 3/4"	-	-	A
H6	2X4	6 3/4"	5 1/2"	-	A, B, C

FIRE RATING: H6: 1 HOUR
BASIS OF DESIGN: H6: UL U359
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT C. 1-HOUR RATED

H SPECIAL PARTITION
SCALE: 3" = 1'-0"

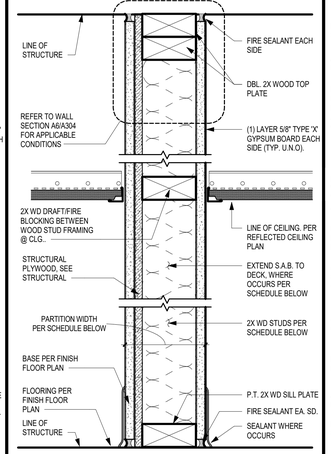


MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
C4	2X4	4 3/4"	3 1/2"	-	A,B
C6	2X6	6 3/4"	5 1/2"	-	A,B

FIRE RATING: N/A
BASIS OF DESIGN: N/A
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT

NOTE: G.C. IS RESPONSIBLE FOR COORDINATION AND INSTALLATION OF ALL REQUIRED DRAFT AND FIRE BLOCKING IN INTERIOR PARTITIONS IN ACCORDANCE W/ THE RECOGNIZED EDITION OF (IBC) THE INTERNATIONAL BUILDING CODE.

C NON-RATED PARTITION
SCALE: 3" = 1'-0"

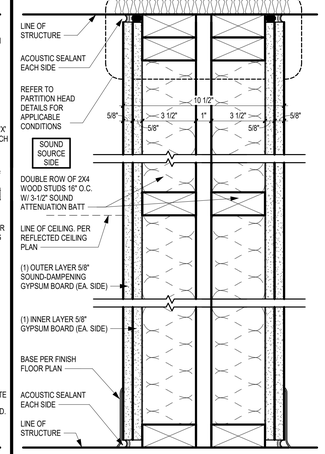


MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
D2	2X2	1 1/2"	1 1/2"	-	A,B
D4	2X4	4 1/8"	3 1/2"	-	A,B
D6	2X6	6 1/8"	5 1/2"	-	A,B

FIRE RATING: N/A
BASIS OF DESIGN: N/A
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT

NOTE: G.C. IS RESPONSIBLE FOR COORDINATION AND INSTALLATION OF ALL REQUIRED DRAFT AND FIRE BLOCKING IN INTERIOR PARTITIONS IN ACCORDANCE W/ THE RECOGNIZED EDITION OF (IBC) THE INTERNATIONAL BUILDING CODE.

D NON-RATED PARTITION
SCALE: 3" = 1'-0"

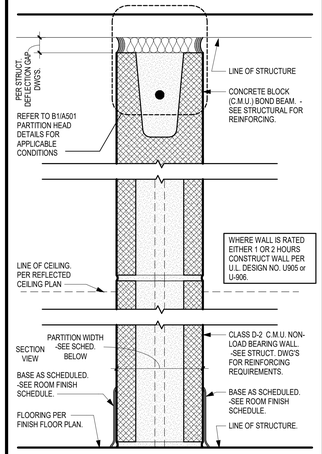


MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
E6	2X6	6 3/4"	5 1/2"	-	A

FIRE RATING: N/A
BASIS OF DESIGN: N/A
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT

NOTE: G.C. IS RESPONSIBLE FOR COORDINATION AND INSTALLATION OF ALL REQUIRED DRAFT AND FIRE BLOCKING IN INTERIOR PARTITIONS IN ACCORDANCE W/ THE RECOGNIZED EDITION OF (IBC) THE INTERNATIONAL BUILDING CODE.

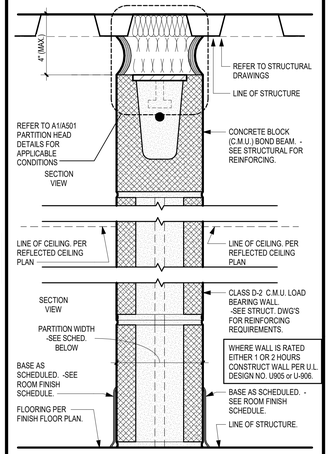
E NON-RATED SHEAR PARTITION
SCALE: 3" = 1'-0"



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
F4	2X4	4 3/4"	3 1/2"	-	A, B
F6	2X6	6 3/4"	5 1/2"	-	A, B

FIRE RATING: 1/2 HOUR
BASIS OF DESIGN: UL U305
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT

F 1/2 HOUR RATED (NON-LOAD BRG.) PARTITION
SCALE: 3" = 1'-0"



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
G4	2X4	4 3/4"	3 1/2"	-	A, B

FIRE RATING: 1/2 HOUR
BASIS OF DESIGN: UL U305
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT

G 1/2 HOUR RATED (NON-LOAD BRG.) PARTITION
SCALE: 3" = 1'-0"

MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
H4	2X4	4 3/4"	-	-	A
H6	2X4	6 3/4"	5 1/2"	-	A, B, C

FIRE RATING: H6: 1 HOUR
BASIS OF DESIGN: H6: UL U359
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT C. 1-HOUR RATED

H SPECIAL PARTITION
SCALE: 3" = 1'-0"

MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
J6	2X6	6 3/4"	5 1/2"	-	A, B

FIRE RATING: 1 HOUR
BASIS OF DESIGN: UL U359
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT

J 1 HOUR RATED LOAD BRG. NON-SHEAR WALL
SCALE: 3" = 1'-0"

MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
K6	2X6	7 1/4"	5 1/2"	-	A, B

FIRE RATING: 1 HOUR
BASIS OF DESIGN: UL U344
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT

K 1 HOUR RATED LOAD BRG. SHEAR WALL
SCALE: 3" = 1'-0"

MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
Q10	6"	10 1/2"	3 1/2"	60+	A, B

FIRE RATING: N/A
BASIS OF DESIGN: N/A
REMARKS: A. STUD SPACING 16" O.C. MAX B. SOUND ATTENUATION BATT

GA FILE NO. WP 3820
ADDED SOUND BOARD AND FIBERGLASS INSULATION BOTH SIDES. 2-HR FIRE, STC 60+

Q FULL HT. ACOUSTIC PART.
SCALE: 3" = 1'-0"

MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
U40	3 5/8"	3 5/8"	-	-	A
U80	7 5/8"	7 5/8"	-	-	A

FIRE RATING: N/A
BASIS OF DESIGN: XXX
REMARKS: A. NON RATED ASSEMBLY B. 1HR RATED C. 2 HR RATED

U C.M.U. NON-LOAD BRG. PART.
SCALE: 3" = 1'-0"

MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
V82	7 5/8"	7 5/8"	-	-	C

FIRE RATING: 2 HOUR
BASIS OF DESIGN: UL U905
REMARKS: A. NON RATED ASSEMBLY B. 1HR RATED C. 2 HR RATED

V INT.MASONRY LOAD BRG. PART.
SCALE: 3" = 1'-0"

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Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
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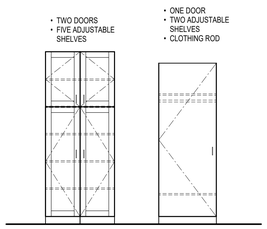
PARTITION TYPES

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Date 10/16/2026

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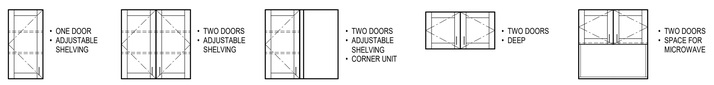
TYPICAL CABINETRY TYPES ELEVATIONS

TALL CABINETS



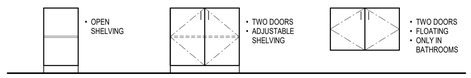
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WOOD WALL HUNG CABINETS



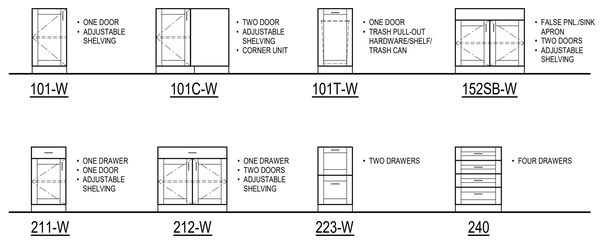
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P-LAM BASE CABINETS



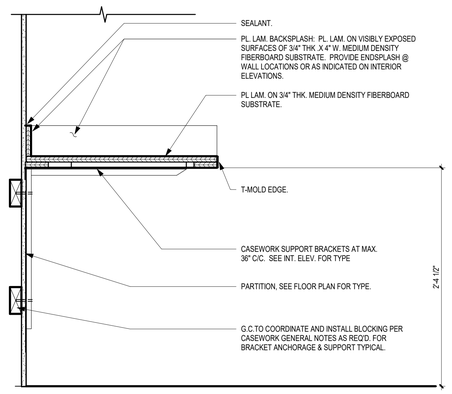
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WOOD BASE CABINETS

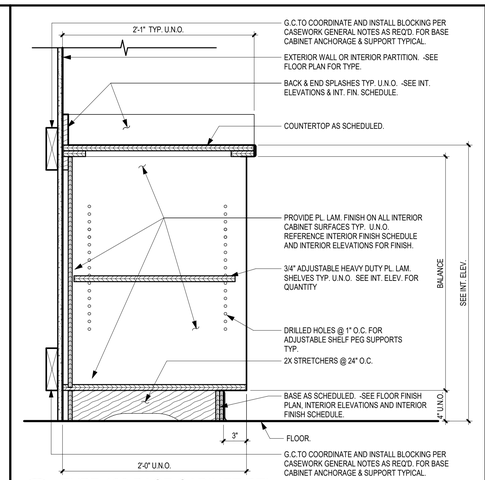


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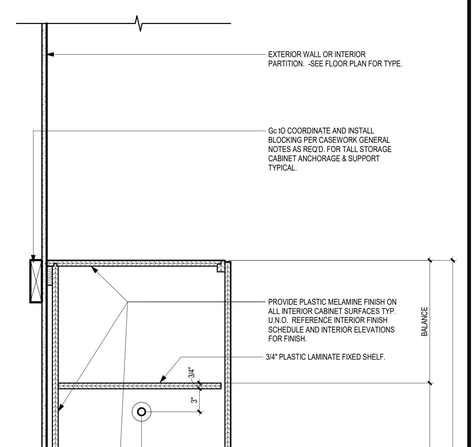
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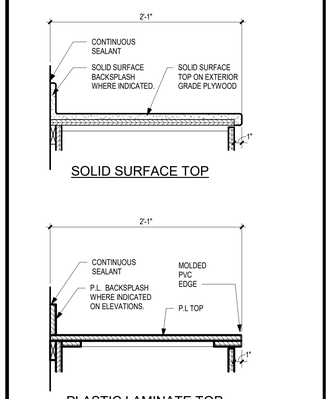
B1 TYP. WALL MOUNTED COUNTERTOP
1 1/2" = 1'-0" CS_TYP. WALL MTD. COUNTERTOP DTL



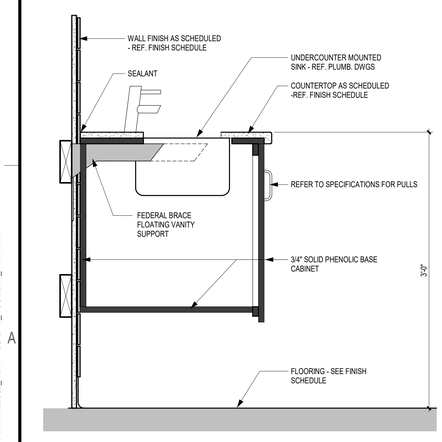
B2 TYPE 100 BASE CABINET DTL
1 1/2" = 1'-0" CS_100 BASE CABINET DTL



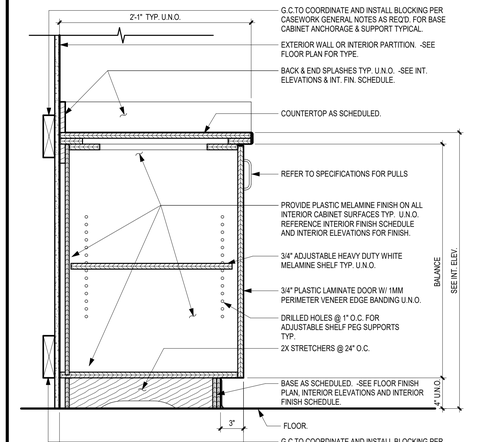
A4 TYPE 501 TALL WARDROBE CABINET DTL
1 1/2" = 1'-0" CS_501 502 TALL WARDROBE CABINET DTL



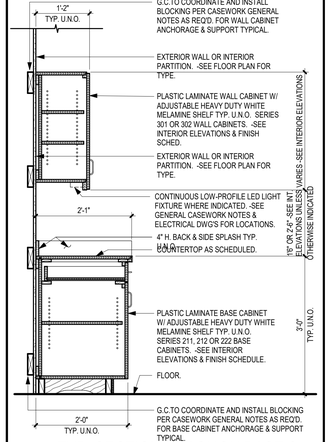
B5 TYP. COUNTERTOP DETAILS
1 1/2" = 1'-0" TYP. COUNTERTOP DETAILS



A1 TYPE 160SB SECTION THRU FLOATING VANITY
1 1/2" = 1'-0" SECTION THRU FLOATING VANITY



A2 TYPE 102 BASE CABINET DTL
1 1/2" = 1'-0" CS_101 102 BASE CABINET DTL



B5 TYP. SECTION THROUGH BASE & WALL CABINET
1 1/2" = 1'-0" CS_TYP. BASE & WALL CAB SECTION

CASEWORK GENERAL NOTES

1. CONTRACTOR TO SUBMIT CASEWORK SHOP DRAWINGS TO DESIGNER FOR APPROVAL PRIOR TO FABRICATION AND ORDERING OF MATERIALS.
2. ALL CASEWORK TO BE CONSTRUCTED PER MOST CURRENT EDITION OF THE NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS PREMIUM GRADE, UNLESS NOTED OTHERWISE.
3. ALL COUNTERTOPS TO HAVE A 4" H. BACKSPLASH AND ENDSPLASHES UNLESS INDICATED OTHERWISE (REFERENCE INTERIOR ELEVATIONS). BACK AND ENDSPLASHES TO BE FULLY BEDDED IN (NON-YELLOWING) CLEAR SILICONE SEALANT TO FULLY SEAL ALL PERIMETER JOINTS. CAULK THE BACK AND ENDSPLASHES WITH CLEAR SEALANT ALONG THE ENTIRE TOP EDGE WHERE SPLASHES ADJOIN WALLS.
4. ALL LAMINATE AND VENEER SHALL BE APPLIED TO SUBSTRATE OF NOT LESS THAN 3/4" THICKNESS.
5. ALL EXPOSED EXTERIOR SURFACES OF CASEWORK TO BE PLASTIC LAMINATE UNLESS NOTED OTHERWISE.
6. AT ALL WET LOCATIONS, WHERE PLASTIC LAMINATE IS SPECIFIED, BOTH COUNTERTOP AND BACKSPLASH ARE TO BE MADE OF MOISTURE RESISTANT PARTICLE BOARD.
7. INTERIOR OF ALL CASEWORK TO BE WHITE MELAMINE UNLESS NOTED OTHERWISE. EXCEPTION: CASEWORK WITH OPEN FRONTS OR GLASS DOORS TO HAVE PLASTIC LAMINATE INTERIOR.
8. CONTRACTOR TO PROVIDE, COORDINATE AND INSTALL ALL REQUIRED BLOCKING FOR CASEWORK.
9. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS FOR CASEWORK PRIOR TO FABRICATION.
10. CONTRACTOR TO VERIFY ALL SEALANT COLORS WITH ARCHITECT PRIOR TO ORDERING AND INSTALLATION.
11. CONTRACTOR SHALL DRILL 2 3/8" DIA. HOLES FOR HAFELE 429.93.XXX GROMMETS THRU COUNTERTOPS AT LOCATIONS AS DIRECTED BY THE OWNER/TENANT. PROVIDE GROMMET COVERS TO MATCH COUNTERTOP COLOR. PROVIDE COLOR SAMPLES OF COUNTERTOP FINISH AND COLORED GROMMET TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
12. CABINET DOOR PULLS TO BE 4" HIGH WIRE PULLS, FINISH TO BE BRUSHED CHROME OR APPROVED EQUAL, UNLESS NOTED OTHERWISE.
13. ALL OUTSIDE CORNERS OF COUNTERTOPS ON PLANS NOT AGAINST AN ADJACENT WALL SHALL HAVE 1-1/2" RADIUS, UNLESS NOTED OTHERWISE.
14. ALL LAMINATE DOORS TO BE FINISHED ON ALL SIDES.
15. ALL COUNTERTOP METAL ANGLE SUPPORT BRACKETS TO BE A&M HARDWARE 21"X21" HYBRID HYB.1.5/21 W/ BLACK POWDER COATED FINISH (OR APPROVED EQUAL) UNLESS NOTED OTHERWISE.
16. ALL UNDER CABINET LIGHTING SHALL BE CONCEALED FROM FRONT AND FINISHED ENDS. FACE OF FRONT LIGHTRAIL SHALL ALIGN FLUSH WITH FRONT FACE OF CABINET BODY. BOTTOM EDGE OF CABINET FINISHED END PANELS SHALL ALIGN WITH BOTTOM EDGE OF LIGHT RAIL. SEE TYPICAL WALL CABINET DETAIL AS NOTED. NO OFFSET LIGHTRAILS ON FRONT OR ENDS OF CABINETS SHALL BE PERMITTED.
17. ALL OUTSIDE CORNERS OF CABINETS, APRONS, LIGHT RAILS, SINK ENCLOSURE PANELS, ETC. SHALL BE ALIGNED TO FORM A 90 DEGREE ANGLE UNLESS NOTED OTHERWISE. NO OFFSET OR STAGGERED CORNERS SHALL BE PERMITTED.
18. THE MAXIMUM PERMITTED GAP BETWEEN ADJACENT DOOR & DRAWER FRONTS FOR FLUSH OVERLAY CABINETS SHALL NOT EXCEED 1/8".ALL FILE DRAWERS SHALL BE SUPPLIED WITH BUILT-IN ADJUSTABLE HANGING FILE FRAME SYSTEM. INCLUDE (1) REMOVABLE INTERMEDIATE RAIL PER DRAWER FOR CONVERTING FROM LETTER TO LATERAL FILES.
19. ALL FINISHED SIDES OF BASE CABINETS SHALL HAVE VINYL BASE APPLIED TO THEM UNLESS NOTED OTHERWISE.
20. FRONT FACE OF ALL PLASTIC LAMINATE PENCIL DRAWER FRONTS SHALL ALIGN WITH FRONT FACE OF ANY ADJACENT PLASTIC LAMINATE APRON.
21. ALL PLASTIC LAMINATE DOOR AND DRAWERS TO RECEIVE 1MM PVC EDGEBAND AND ALL COUNTERTOPS TO RECEIVE T-MOLD EDGEBAND. REFER TO FINISH SCHEDULE FOR EDGEBAND COLORS.
22. PAINT ALL EXPOSED CLEATS BELOW COUNTERS TO MATCH WALL.
23. WHERE CABINET DOORS SWING AGAINTS WALLS, PROVIDE AND INSTALL HINGE RESTRICTOR CLIPS TO PREVENT CABINET HANDLE FROM HITTING WALL WHEN DOOR IS OPENED.
24. WHERE TOP OF WALL CABINETS ARE 18" OR LESS BELOW CEILING, PROVIDE AND INSTALL FILLER PANEL FROM TOP OF CABINETS TO UNDERSIDE OF CEILING. WHERE TOP OF WALL CABINETS ARE GREATER THAN 18" BELOW CEILING, PROVIDE AND INSTALL 30 DEGREE SLOPED PLAM PANEL ON TOP OF WALL CABINETS.

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ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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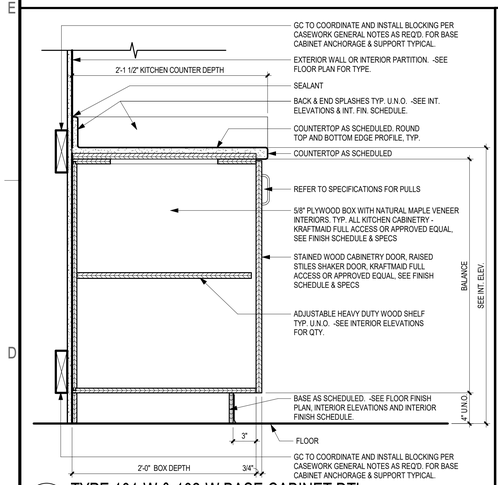
PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

CASEWORK DETAILS

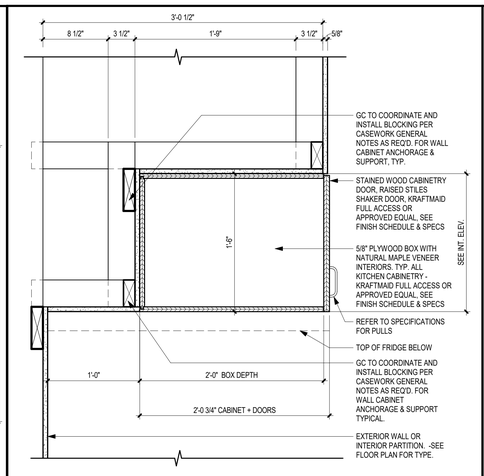
Project No. 25083
Sheet No. A521
Date 10/16/2026

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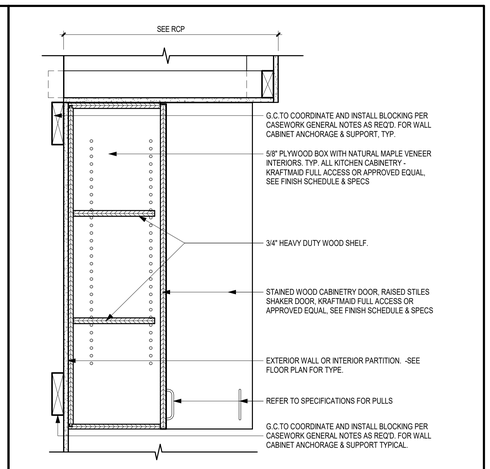
D1 TYPE 101-W & 102-W BASE CABINET DTL

1 1/2" = 1'-0"



D2 TYPE 302D-W WALL CABINET DTL

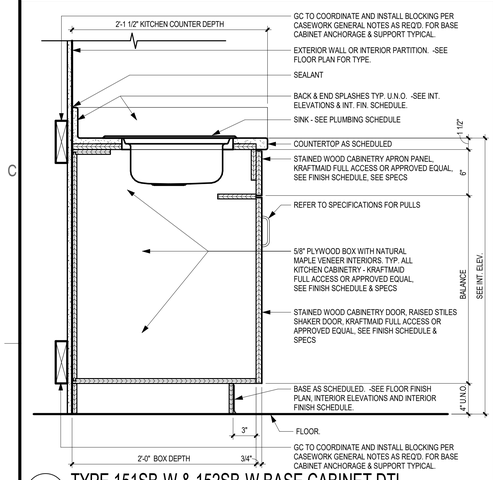
1 1/2" = 1'-0"



D4 TYPE 301C WALL CABINET DTL

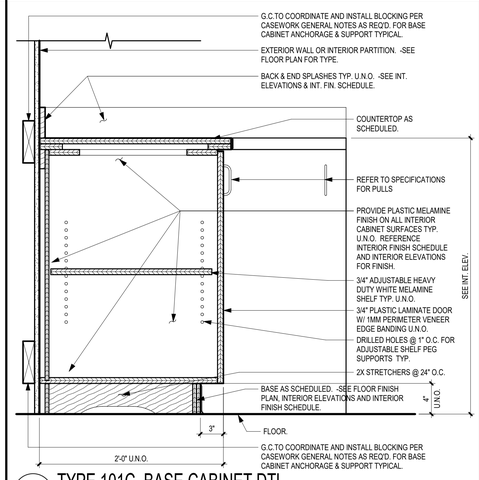
1 1/2" = 1'-0"

CS_301 302 WALL CABINET DTL



B1 TYPE 151SB-W & 152SB-W BASE CABINET DTL

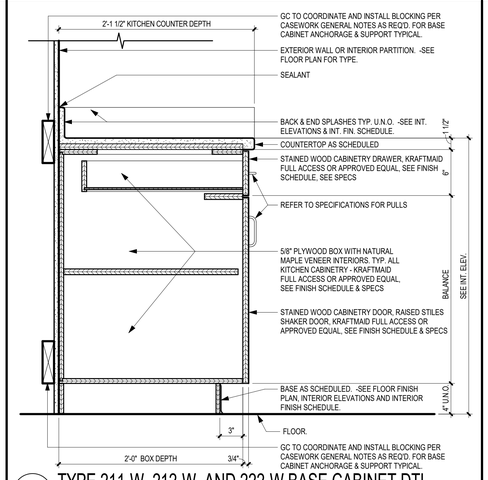
1 1/2" = 1'-0"



B2 TYPE 101C BASE CABINET DTL

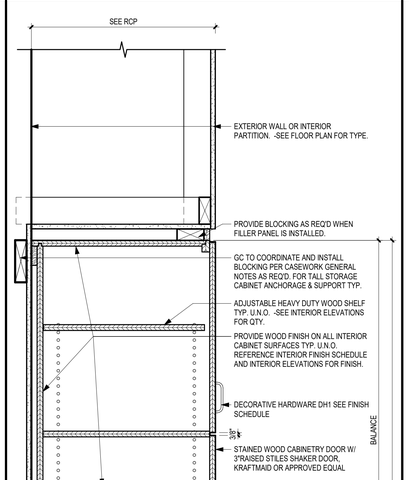
1 1/2" = 1'-0"

CS_101 102 BASE CABINET DTL



B4 TYPE 211-W, 212-W, AND 222-W BASE CABINET DTL

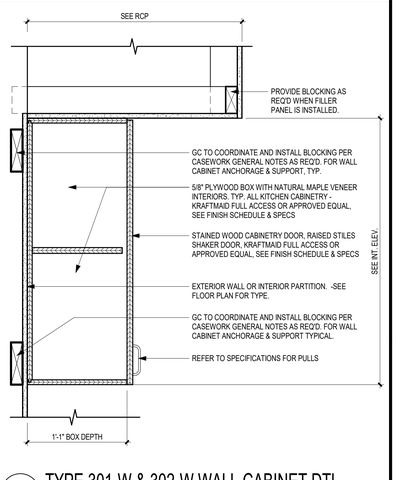
1 1/2" = 1'-0"



A5 TYPE 424-W TALL CABINET DTL

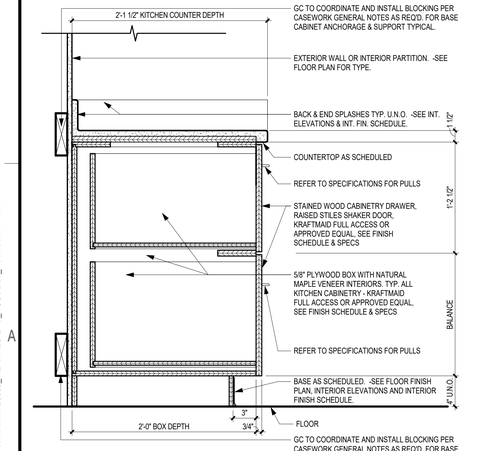
1 1/2" = 1'-0"

CS_424A TALL CABINET DTL



B6 TYPE 301-W & 302-W WALL CABINET DTL

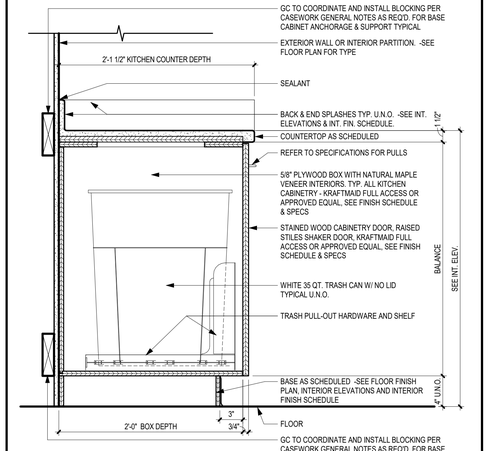
1 1/2" = 1'-0"



A2 TYPE 240 BASE CABINET DETAIL

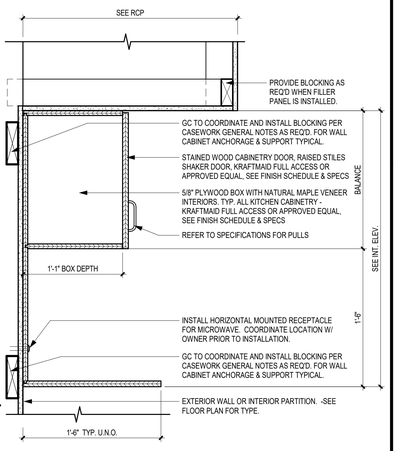
1 1/2" = 1'-0"

CS_240 BASE CABINET DTL



A4 TYPE 101T-W BASE CABINET DETAIL

1 1/2" = 1'-0"



B6 TYPE 301-W & 302-W WALL CABINET DTL

1 1/2" = 1'-0"

A6 TYPE 302M-W WALL CABINET DTL

1 1/2" = 1'-0"

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

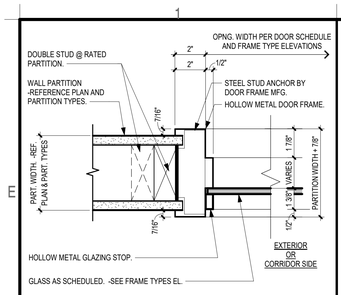
No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	06/22/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

WOOD CASEWORK DETAILS

Project No. 25083

Sheet No. A522

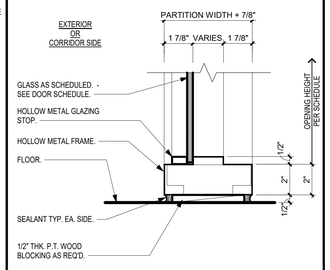
Date 10/16/2026



E1 TYP. HOLLOW METAL FRAME GLAZED JAMB DTL

3" = 1'-0"

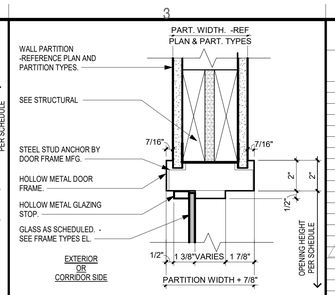
OPNG_HM FRAME 2" GLAZED JAMB DTL



E2 TYP. HOLLOW METAL FRAME GLAZED SILL DTL.

3" = 1'-0"

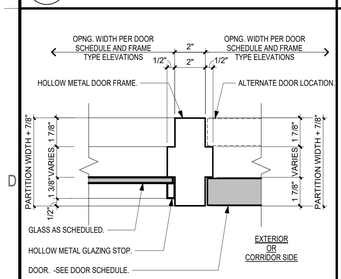
OPNG_HM FRAME 2" GLAZED SILL DTL



E3 TYP. HOLLOW METAL FRAME GLAZED HEAD DTL

3" = 1'-0"

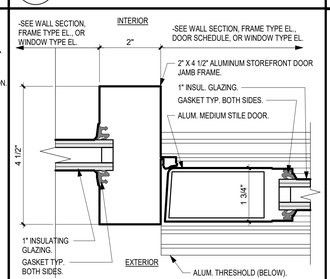
OPNG_HM FRAME 2" GLAZED HEAD DTL



D1 TYP. HOLLOW METAL FRAME DOOR JAMB W/ SIDELITE DTL

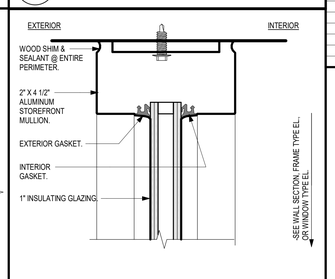
3" = 1'-0"

OPNG_HM FRAME 2 DOOR JAMB @ SIDELITE DTL



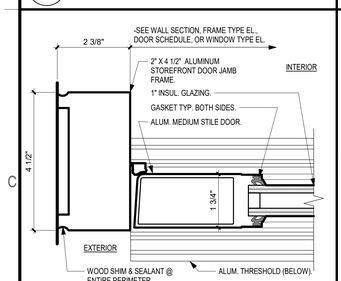
D2 TYPICAL ALUM STOREFRONT 2" DOOR JAMB AT SIDELITE

6" = 1'-0"



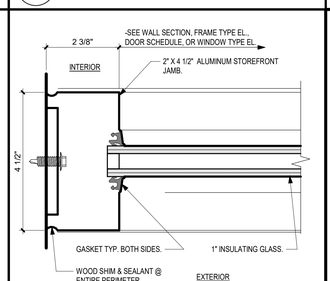
D3 TYPICAL ALUM STOREFRONT 2" DOOR HEAD TERM DETAIL

6" = 1'-0"



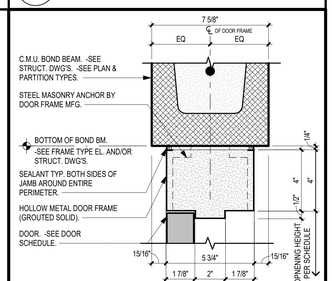
C1 TYPICAL ALUM STOREFRONT 2" DOOR JAMB DETAIL

6" = 1'-0"



C2 TYPICAL ALUM STOREFRONT 2" JAMB TERM DETAIL

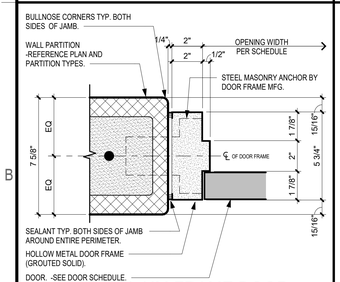
6" = 1'-0"



C3 TYPICAL HM FRAME DOOR HEAD 4" DETAIL AT CMU

3" = 1'-0"

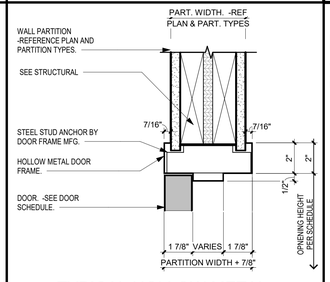
08.11.13.03_LG HM DOOR HEAD DETAIL_CMU



B1 TYPICAL HM FRAME DOOR JAMB DETAIL AT CMU

3" = 1'-0"

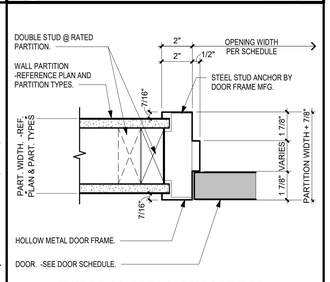
08.11.13.03_LG HM DOOR JAMB DETAIL_CMU



B2 TYPICAL HOLLOW METAL FRAME DOOR HEAD DETAIL

3" = 1'-0"

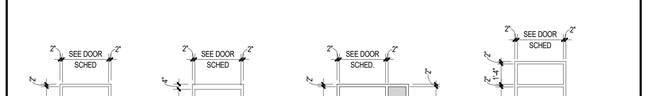
08.11.13.01_LG HM DOOR HEAD DETAIL-WOOD



B3 TYPICAL HOLLOW METAL FRAME DOOR JAMB DETAIL

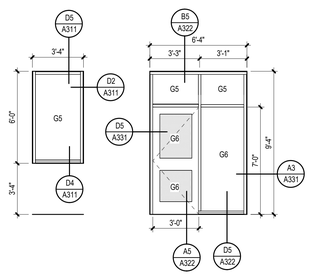
3" = 1'-0"

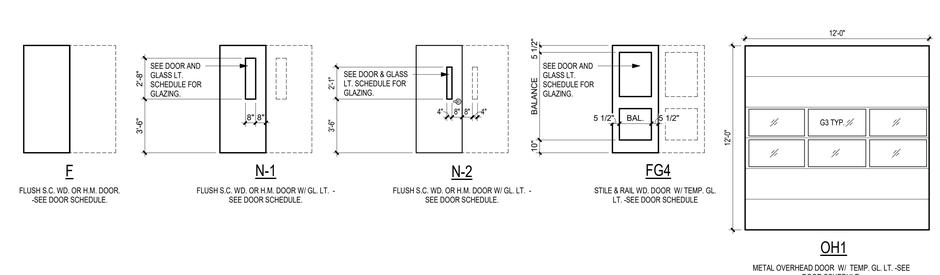
08.11.13.01_LG HM DOOR JAMB DETAIL



A2 HOLLOW METAL FRAME TYPE ELEVATIONS

1/4" = 1'-0"





A5 DOOR TYPES ELEVATIONS

1/4" = 1'-0"

DOOR SCHEDULE

MARK	PAIR	WIDTH	HEIGHT	THICK	FRAME PROPERTIES						DOOR PROPERTIES				Door Fire Rating	HARDWARE GROUP	COMMENTS
					FRAME TYPE	FRAME MATERIAL	FRAME FINISH	SIDELIGHT GLAZING	HEAD	JAMB	TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING			
100A		3'-0"	7'-0"	1 3/4"	W2	ALUM	STF-1	G6	D3/A601	C1/A601	-FG4-	ALUM	STF-1	G6		4-AC1.00	
100B		3'-0"	7'-0"	1 3/4"	F04	HM	P2	G2	B2/A601	D1/A601	-FG4-	WOOD	WD1	G2		4-AC1.02	
101		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-		4-1.00	
105		3'-0"	7'-0"	1 3/4"	F06	HM	EXP-1	G5	E3/A601	B3/A601	-FG4-	INSUL. STEEL	EXP-1	G6		4-4.00	
107		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-		4-6.02	
108		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-N-1-	WOOD	WD1	G2		4-4.01	
109		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-		4-6.02	
110		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-	20 MIN	4-1.03	
111		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-		4-1.04	
112		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-	20 MIN	4-1.03	
113		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-		4-1.04	
114		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-	20 MIN	4-1.02	
115A		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-N-1-	WOOD	WD1	G2		4-5.00	
115B		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-N2-ADA	WOOD	WD1	G2	45 MIN	4-AC1.03	
116A		3'-0"	7'-0"	1 3/4"	F01-M	HM	P2	-	C3/A601	B1/A601	-F-	HM	WD1	-	90 MIN	4-3.00	ICC 500 RATED HARDWARE SET, DOORS & FRAMES
A 116B		3'-0"	7'-0"	1 3/4"	F01-M	HM	P2	-	C3/A601	B1/A601	-F-	HM	WD1	-		4-1.01	
117		3'-0"	7'-0"	1 3/4"	F01-M	HM	P2	-	C3/A601	B1/A601	-F-	HM	WD1	-	90 MIN	4-3.00	ICC 500 RATED HARDWARE SET, DOORS & FRAMES
118A		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-N-1-	WOOD	WD1	G2		4-5.00	
118B		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-N2-ADA	WOOD	WD1	G2	45 MIN	4-AC1.03	
119		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	G2	45 MIN	4-6.00	
120A		3'-0"	7'-0"	1 3/4"	F01	HM	EXP-1	-	D1/A321	A5 & A7/A331	-N-1-	INSUL. STEEL	EXP-1	G6		4-AC1.01	
120B		12'-0"	12'-0"	2"	OVERHEAD	STEEL	EXP-2	-	C5/A321	A5/A321	OH1	INSUL. STEEL	EXP-2	G3		-	
120C		12'-0"	12'-0"	2"	OVERHEAD	STEEL	EXP-2	-	C5/A321	A5/A321	OH1	INSUL. STEEL	EXP-2	G3		-	
120D		12'-0"	12'-0"	2"	OVERHEAD	STEEL	EXP-2	-	C5/A321	A5/A321	OH1	INSUL. STEEL	EXP-2	G3		-	
120E		12'-0"	12'-0"	2"	OVERHEAD	STEEL	EXP-2	-	C5/A321	A5/A321	OH1	INSUL. STEEL	EXP-2	G3		-	
120F		3'-0"	7'-0"	1 3/4"	F01	HM	EXP-1	-	D1/A321	A5 & A7/A331	-N-1-	INSUL. STEEL	EXP-1	G6		4-AC1.01	
121		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-N2-ADA	WOOD	WD1	G2	45 MIN	4-2.01	
122		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-		4-2.00	
123	PR	5'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-		4-6.01	
124		3'-0"	7'-0"	1 3/4"	F01	HM	P2	-	B2/A601	B3/A601	-F-	WOOD	WD1	-		4-6.00	
125		3'-6"	7'-0"	1 3/4"	F01	HM	EXP-1	-	D1/A321	A5 & A7/A331	-F-	INSUL. STEEL	EXP-1	-		4-AC1.01	

ICC 500 STORM SHELTER DOORS (A)

CODE REVIEW FOR DOORS 116A & 117.

PER IBC 2024 SEC. 423.1 AND ICC 500 SEC. 501.3, STORM SHELTER DOOR SWING DIRECTION IS DICTATED BY THE NORMAL OCCUPANCY OF THE SPACE, NOT MAXIMUM SHELTER CAPACITY. BECAUSE THE NORMAL OCCUPANT LOAD OF THIS ROOM IS LESS THAN 50, THE DOOR IS EXPLICITLY PERMITTED TO SWING INWARD PER IBC 2024 SEC. 1010.1.2.1.

NOTE: THE COMPLETE DOOR ASSEMBLY (DOOR, FRAME, AND MULTI-POINT LATCHING HARDWARE) MUST BE FACTORY TESTED, LISTED, AND LABELED SPECIFICALLY FOR AN "IN-SWING" ICC 500 APPLICATION TO WITHSTAND NEGATIVE WIND PRESSURES AND DEBRIS IMPACT REQUIREMENTS. EGRESS HARDWARE SHALL REMAIN OPERABLE FROM THE INSIDE WITHOUT THE USE OF KEYS OR SPECIAL KNOWLEDGE.

GLAZING TYPE SCHEDULE

GLAZING TYPE	DESCRIPTION
-NOTE:	NOT ALL GLASS USED IN PROJECT. REFER TO DOOR SCHEDULE & WINDOW FRAME TYPES
G1	1/4" CLEAR GLAZING
G2	1/4" TEMPERED CLEAR GLAZING
G3	1/2" TEMPERED CLEAR GLAZING
G4	3/16" PREMIUM GRADE FIRE RATED GLASS CERAMIC SAFETY GLAZING
G5	1" INSULATED GLAZING
G6	1" TEMPERED INSULATED GLAZING

STATE OF MISSOURI
ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
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[Consultants]

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	04/12/2026	PERMIT DOCUMENTS
	07/07/2026	PERMIT DOCUMENTS - REVISED
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/15/2026	PLAN REVIEW CORRECTIONS
A	10/16/2026	BIDDING DOCUMENTS

DOOR SCHEDULE & DETAILS

Project No. 25083

Sheet No. A601

Date 10/16/2026

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SCALE: 3" = 1'-0" / SCALE: 1 1/2" = 1'-0" / SCALE: 1" = 1'-0" / SCALE: 3/4" = 1'-0" / SCALE: 1/2" = 1'-0" / SCALE: 3/8" = 1'-0" / SCALE: 1/4" = 1'-0" / SCALE: 1/8" = 1'-0" / SCALE: 3/32" = 1'-0" / SCALE: 1/16" = 1'-0"

MERAMEC EMS HOUSE #4 - INTERIOR FINISH SCHEDULE

ACOUSTICAL CEILINGS

ACT1	ACOUSTICAL CEILING TILES - FIELD MFGR: ARMSTRONG PATTERN: DUNE SECOND LOOK II ANGLED TEGULAR MODEL: 2712 SIZE: 2'-0" X 4'-0", 15/16" GRID COLOR: WHITE CONTACT: ELIZABETH MOON 816.216.2890

BASE

B1	VINYL BASE - FIELD MFGR: TARKETT JOHNSONITE STYLE/SIZE: 4" HIGH COVE PROFILE, 1/8" GAUGE, 4'-0" LENGTHS COLOR: 63 BURNT UMBER

CARPET

CP1	CARPET - ENTRY WALK OFF - VESTIBULE MFGR: TARKETT PATTERN: ASSERTIVE STRIA #04839 COLOR: 26202 STEELWORK, SIZE: 24"x24" INSTALL METHOD: VERTICAL ASHLAR CONTACT: AMY ELLIS 314.348.7677
CP2	NOT USED
CP3	CARPET - BUNKROOMS MFGR: KINETEX -J&J CARPETS PATTERN: SOUNDTRACK 19473018 COLOR: 3018 PLAYLIST, SIZE: 18"X36" INSTALL METHOD: ASHLAR CONTACT: NANCY WASSER 314.502.2325

CERAMIC WALL TILE

CT1	CERAMIC WALL TILE - TLT RM WAINSCOT MFGR: DAL TILE PATTERN: LINEAR GLAZED CERAMIC WALL SUBWAY TILE COLOR: DESERT GRAY X114 GLOSSY, SIZE: 4" X 16" TILE INSTALL METHOD: STACK BOND. USE SCHLUTER SCHIENE TRIM ALL OUTSIDE EXPOSED EDGES, TYP. INSTALL WITH GROUT GT1 CONTACT: TABATHA CURRY 314.687.3960
CT2	CERAMIC WALL TILE - TLT RM ACCENT WALL & RIBBON BREAKRM & KITCHEN MFGR: MSI HIGHLAND PARK PATTERN: LINEAR GLAZED CERAMIC WALL SUBWAY TILE COLOR: BAY BLUE HANDCRAFTED, SIZE: 4" X 12" TILE INSTALL METHOD: STACK BOND. NOTE ACCENT TILE SIZE IS DIFFERENT THAN FIELD SIZE - STAGGER THE TWO HIGH ACCENT COURSE TO NOT ALIGN WITH FIELD TILE BUT STACK BOND THE BLUE TILE USE SCHLUTER SCHIENE TRIM ALL OUTSIDE EXPOSED EDGES, TYP. INSTALL WITH GROUT GT1 CONTACT: JAN BAY 314.327.3314

DECORATIVE HARDWARE

DH1	DECORATIVE HARDWARE - KITCHEN MFGR: AMEROCK STYLE: BLACKROCK CTC: 5-1/16"

FIBERGLASS REINFORCED PANELS

FRP	FRP PANELS - APP BAY MFGR: CRANE COMPOSITES STYLE: GLASBORD W/SURFASEAL, PEBBLE EMBOSSED TEXTURE COLOR: 48 PEARL GRAY, SIZE: 4'X10'-0", CLASS A, GAUGE: 0.09" INCLUDE ALL TRIM CAPS & CORNER BEADS.

GROUT

GT1	WALL GROUT MFGR: MAPEI STYLE: KERAPOXY CQ COLOR: 5027 SILVER NOTE: KNIFE GROUT JOINT
GT2	FLOOR GROUT MFGR: MAPEI STYLE: KERAPOXY CQ COLOR: 5010 BLACK NOIR NOTE: KNIFE GROUT JOINT

LUXURY VINYL TILE

LVT1	LUXURY VINYL TILE MFGR: ALTRO LAVENCIA STYLE: WEAVE LAV33011, SIZE: 12"X24" CONTACT: ERIN FERNANDES 314-276-2196

PAINT

P1	PAINT – WALLS – FIELD COLOR MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, EGGSHELL COLOR: SW9165 GOSSIMER VEIL CONTACT: ERIC BOWRING 314-943-2745
P2	PAINT – DOOR FRAMES INDICATED AS "PAINT" ON DOOR SCHEDULE MFGR: SHERWIN WILLIAMS SERIES: PRECATALYZED WATERBASED EPOXY SINGLE COMPONENT, FINISH: SEMI GLOSS, COLOR: SW7069 IRON ORE
P3	PAINT – GYP BD. CEILINGS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, FLAT COLOR: SW7005 PURE WHITE
P4	PAINT – WALLS – ACCENT WALL BUNKS & VESTIBULE MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, EGGSHELL COLOR: SW6811 HONORABLE BLUE
P5	PAINT – APP BAY ABOVE FRP, DECON MFGR: SHERWIN WILLIAMS SERIES: EPOXY, FINISH: SEMI GLOSS COLOR: SW9165 GOSSIMER VEIL NOTE ALL WALLS WITH EXPOSED CMU BLOCK TO HAVE BLOCK FILLER & PRIMED PRIOR TO PAINTING
P6	NOT USED
P7	PAINT – SAFETY STRIPE APP BAY MFGR: SHERWIN WILLIAMS SERIES: GENERAL POLYMERS SERIES:4844 PACECOTE POLYASOARTIC TOPCOAT COLOR: CUSTOM MATCH SW6911 CONFIDENT YELLOW
P8	PAINT – APP BAY CLGS, DECON CLGS, TLT RM CLGS MFGR: SHERWIN WILLIAMS SERIES: EPOXY, FINISH: SEMI GLOSS COLOR: SW7005 PURE WHITE

PLASTIC LAMINATE

PL3	PLASTIC LAMINATE – DAY ROOM BUILT IN MFGR: FORMICA HPL STYLE: TERRILL 2297-PX PLEX FINISH TYP. INCLUDE MATCHING 1MM PVC EDGEBAND
PL4	PLASTIC LAMINATE - FLOATING VANITY MFGR: FORMICA COMPACT STYLE: 1/2" GAUGE BLACK SOLID PHENOLIC, COLOR: TERRILL 2297-PX PLEX FINISH
PL5	PLASTIC LAMINATE – BUNK ROOM WARDROBES MFGR: FORMICA HPL STYLE: STARCHED PAPERFOLD 8678-58, MATTE TEXTURE TYP. INCLUDE MATCHING 1MM PVC EDGEBAND
PL6	PLASTIC LAMINATE – BUNK ROOM DESK, REPORT DESK MFGR: FORMICA HPL STYLE: SMOKE QUARSTONE 6220-58, MATTE TEXTURE TYP. INCLUDE MATCHING 3MM PVC EDGEBAND

PORCELAIN TILE

PT1	PORCELAIN FLOOR TILE MFGR: LANDMARK CERAMICS STYLE: MILESTONE, COLOR: WEST BLACK SIZE: 12"X24" INSTALL STACK BOND W/KNIFE JOINTS. INCLUDE CRACK ISOLATION MEMBRANE ALL CONTROL JOINTS INSTALL WITH GROUT GT2 CONTACT: JILL PATTERSON VIRGINIA TILE 314-208-7962

SEALED CONCRETE

SC	SEALED CONCRETE FLOOR WITH DENSIFIERS REFER TO ARCHITECTURAL SPECIFICATIONS

SPECIALTY FINISH

SPF1	SPECIALTY FINISH - CUSTOM VINYL WALL APPLIQUES REFER TO VD1, VD2 VD3, STYLE: MULTI-COLOR CUSTOM DESIGNS TO BE DETERMINED BY ARCHITECT. WALL TO BE FINISHED TO LEVEL 5 FINISH PRIOR TO INSTALL. CONTACT: KELLY FORD 636.391.3888
SPF2	SPECIALTY FINISH - CUSTOM VINYL GLASS APPLIQUE - VESTIBULE ADDRESS NUMBERS MFGR: INFINITE OPTIKS QUALITY GLASS STYLE: 8"H WHITE OPAQUE VINYL APPLIQUE, FONT: HELVETTICA BOLD. CONFIRM NUMBERS WITH OWNER. CENTER ON GLASS TRANSOM WINDOW TO BE LEGIBLE FROM THE STREET. PROVIDE MOCKUP FOR APPROVAL CONTACT: KELLY FORD 314.495.5676

SOLID SURFACE

SDS1	SOLID SURFACE - BREAKROOM & KITCHEN COUNTER TOPS & WINDOW SILLS MFGR: WILSONART COLOR: WHITESTONE 9208CS GAUGE:1/2" , EASED EDGES
SDS2	SOLID SURFACE -SHOWER SURROUNDS, END OF WING WALL MFGR: WILSONART SOLID SURFACE COLOR: YUKON RIVERSTONE 9196RS GAUGE: 1/2", SHEET SIZE 30"W X FULL HEIGHT FIELD VERIFY NOTE: JOINT ADHESIVE BUTT-SEAM PANELS, PROVIDE SEAMING DIAGRAM TO DESIGNER FOR APPROVAL. FOLLOW ALL MANUFAC. GUIDELINES FOR INSTALLING WET LOCATION VERTICAL PANELS.
SDS3	SOLID SURFACE - TLT RM VANITY COUNTERTOP MFGR: WILSONART COLOR: MILK GLASS SPECTRA 9077ST GAUGE:1/2" , EASED EDGES

STAINLESS STEEL WALL PANEL

SST	STAINLESS STEEL BACKSPLASH- BEHIND KITCHEN RANGE MFGR: INPRO OR APPROVED EQUAL SIZE: 48"X84" PANEL NOTE: FIELD VERIFY DIMENSION TO MATCH RANGE/HOOD WIDTH, CUT IN FIELD 20 GAUGE, BRUSHED #4 FINISH

TRANSITIONS/FLOORING ACCESSORIES

TR1	TRANSITION CERAMIC TILE & PORCELAIN TILE PERIMETER EDGES MFGR: SCHLUTER PATTERN: SCHIENE, NOTE SIZES VARY FOR FLOOR & WALLS COLOR: SATIN ANODIZED ALUMINUM
TR2	TRANSITION - KINETEX TO LVT MFGR: JOHNSONITE SLIMLINE TRANSTION PATTERN: SLT-63-B COLOR: BURNT UMBER
TR3	TRANSITION - CARPET TO CONCRETE MFGR: JOHNSONITE PATTERN: CTA-63-J COLOR: BURNT UMBER
TR4	TRANSITION LVT TO CONCRETE MFGR: JOHNSONITE SLIMLINE TRANSITION PATTERN: SLT-63 J COLOR: BURNT UMBER
TR5	TRANSITION PORCELAIN TILE TO LVT MFGR: SCHLUTER PATTERN: RENO SLOPED COLOR: SATIN ANODIZED ALUMINUM

VINYL WALL DECALS

VD1	USE FOR VINYL LETTERS AND SNAKE STAFF VINYL GRAPHIC MFGR: ORAFOL SERIES: ORACAL 651 COLOR: #010M - MATTE WHITE
VD2	USE FOR EMS BADGE AND VINYL GRAPHIC STRIPES MFGR: ORAFOL SERIES: ORACAL 651 COLOR: #090 - SILVER GREY
VD3	USE FOR OUTLINE OF EMS BADGE AND VINYL GRAPHIC STRIPES MFGR: ORAFOL SERIES: ORACAL 651 COLOR: #056 - ICE BLUE

WALL PROTECTION

WP1	WALL PROTECTION - CORNER GUARDS MFGR: INPRO STYLE: TAPE ON, 1-1/2"x1-1/2" WING, 4'-0" HEIGHT COLOR: 0387 PEBBLE GRAY CONTACT: ANGIE STONER 314.409.5100

WINDOW TREATMENTS

WT1	WINDOW TREATMENTS - ROLLER SHADES - SOLAR SHADES MFGR: SWF WINDOW FASHIONS STYLE: CROSSHATCH S1000, 3% OPENNESS SHADECLOTH COLOR: CROSSHATCH S300 C8208 EBONY, FASCIA: 875 CLEAR ANODIZED, TRUE PERFORMANCE MANUAL SHADES, INSIDE MOUNT, STAINLESS PULL CHAIN & INCLUDE LONG ENOUGH CHAIN AT HIGH WINDOWS CONTACT: DUSTIN PALMER GOLTERMAN & SABO 314.336.2142 NOTE: WOOD WINDOW SILLS AS PART OF WINDOW SYSTEM
WT2	WINDOW TREATMENTS - ROLLER SHADES - BLACKOUT BUNKRMS/DAY RM MFGR: SWF WINDOW FASHIONS STYLE: ENTERPRISE BLACKOUT SHADECLOTH COLOR: DARK GRAY C1305, FASCIA: 875 CLEAR ANODIZED, TRUE PERFORMANCE MANUAL SHADES, INSIDE MOUNT, STAINLESS PULL CHAIN & INCLUDE LONG ENOUGH CHAIN AT HIGH WINDOWS CONTACT: DUSTIN PALMER GOLTERMAN & SABO 314.336.2142 NOTE: WOOD WINDOW SILLS AS PART OF WINDOW SYSTEM

WOOD

WD1	WOOD DOORS MFGR: VT INDUSTRIES SPECIES: WHITE MAPLE PLAIN SLICED SELECT COLOR: CHOCOLATE CH18

WOOD CABINETRY

WDC	WOOD CABINETRY - KITCHEN MFGR: KRAFTMAID FULL ACCESS LINE OR APPROVED EQUAL SPECIES: WHITE MAPLE PLAIN SLICED SELECT, PLYWOOD CABINET CONSTRUCTION, DOOR STYLE: TRUMBELL FULL OVERLAY COLOR: SELECT FROM MANUFACTURERS STAINED RUNNING LINE INCLUDE MATCHING SOLID WOOD PANEL AND WOOD CORNER GUARDS ON THE BACK OF THE ISLAND KICKPLATE NOTE: INSTALL SOFT CLOSERS ALL DOOR & DRAWER INSTALL WITH DECORATIVE HARDWARE DH1

WOOD PANELING

WDP	WOOD WALL PANELS ENTIRE BACK OF DISPLAY WALL INSTALL ON 45 DEGREE ANGLE CONTACT DESIGNER FOR RENDERING MFGR: MODERN FARMHOUSE SAHARA SAND, MODEL:DMMF-1812 GAUGE: 3/8", PLANK SIZE 6-1/2 WIDE & RL UP TO 75" SPECIES: EUROPEAN OAK, FINISH UV URETHANE CONTACT: AMANDA BOARDWALK HARDWOODS 314-729-1461

KEYED NOTES FINISH FLOOR PLAN

MARK	DESCRIPTION
1	APPARATUS BAY: ALL WALLS 10-0" HIGH WAINSCOT OF FRP. APPLY SEALANT WHERE WALL PANEL MEETS FLOOR, APPLY VINYL BASE ON TOP OF PANEL
2	BUNK ROOM CUSTOM LAMINATE WARDROBE UNITS LOCKERS #1, #2, #3 & PART TIME BUNK: TALL CABINETS PL5 WITH WHITE MELAMINE INTERIORS. PROVIDE HASP LOCKING HARDWARE FOR OWNER PROVIDED PADLOCKS, SEE ELEVATIONS AND DETAILS
3	DECON SHOWER FRP WALLS PANELS FULL HEIGHT, SHOWER PAN IN PRO ADA PRISM SOLID SURFACE ROLL IN SHOWER BASE RECEIVER COLOR: BRIGHT WHITE
4	INDIV. RESTROOM: INSTALL CERAMIC TILE WAINSCOT WET WALL, SIDE WALLS AT TOILET CT1 WITH ACCENT RIBBON CT2, HEIGHT AS INDICATED, TOP CAP & OUTSIDE EDGES TRIM TR1. PAINT ABOVE TILE ALL WALLS. CONCRETE BACKER BOARD AT TILE AND MOISTURE RESISTANT GYP BOARD ALL WALLS & CEILING. REFER TO ELEVATIONS FOR ADD'L INFORMATION
5	SHOWERS: FULL HEIGHT VERTICAL WALL PANELS SDS2 ALL WALLS & OUTSIDE FACE OF WING WALLS. SEAL ALL PERIMETER EDGES W/TRANSLUCENT SEALANT. SHOWER FLOORS: INPRO PRISM SHOWER RECEPTOR, REAR TRENCH DRAIN, STANDARD GRATE DESIGN, ADA THRESHOLD, CUSTOM SIZE, COLOR P9011 BRIGHT WHITE
6	PROVIDE & INSTALL CORNER GUARDS WP1
7	PROVIDE SILICONE SEALANT WHERE BLOCK MEETS SEALED CONCRETE FLOOR. MATCH FLOOR COLOR.
8	KITCHEN BASE & WALL CABINETS AND ISLAND WDC1, COUNTERTOPS, 4"H BACK & SIDE SPLASHES SOLID SURFACE SDS1. CERAMIC TILE BACKSPLASH UNDER CABINETS CT1/2. STAINLESS BACKSPLASH AT RANGE. ISLAND STAINLESS DEEP SINGLE BOWL SINK, UNDERMOUNT STAINLESS SINK AT COFFEE BAR, SEE ELEVATIONS
9	PROVIDE & INSTALL ROLLER SHADE WINDOW TREATMENT, ALL EXTERIOR WINDOWS.
10	PLASTIC LAMINATE BASE CABINETS & WALL CABINETS PL1 AS INDICATED, COUNTERTOP & BACKSPLASH PL2, ANGLED METAL SUPPORT BRACKETS AS REQUIRED SEE ELEVATIONS
11	CUSTOM PLASTIC LAMINATE BOOKCASES PL3 ALL VISIBLE SIDES, BASE CABINETS PL3 WITH BLACK MELAMINE INTERIOR, SOLID SURFACE COUNTERTOP SDS1, WOOD PLANK BACKPANELS WDP AS INDICATED, SEE ELEVATIONS
12	DECON/JANITORS: INSTALL FRP 52" OAH WAINSCOT AROUND ROOM ALL WALLS (48"H FRP INSTALL ALONG TOP OF A 4" H VINYL BASE.) USE ALL COORDINATING PVC TRIM TOP, BOTTOM, & INSIDE CORNER PIECES. CLEAR BEAD OF SEALANT ALONG ALL EDGES OF MOP SINK, SEE ELEVATIONS
13	TOILET VANITIES SOLID SURFACE COUNTERTOP & 4"H BACKSPLASH SDS3 FLOATING BASE CABINET PL4. SEE ELEVATIONS AND DETAILS
14	APPARATUS BAY: PAINTED YELLOW SAFETY YELLOW LINES IN APPARATUS BAY FLOOR & 6" WIDE SAFETY STRIPE AT STEP. OWNER DIRECTED LOCATIONS, OBTAIN PAINT PLAN FROM DESIGNER
15	PREP WALL TO LEVEL 5 FINISH. PROVIDE & INSTALL CUSTOM WALL GRAPHIC ON WALL AS INDICATED. REFER TO ELEVATIONS SIZES VARY.
16	PLASTIC LAMINATE BASE CABINETS & WALL CABINETS PL1 AS INDICATED, COUNTERTOP & BACKSPLASH SOLID SURFACE SDS1, ANGLED METAL SUPPORT BRACKETS AS REQUIRED. SEE ELEVATIONS

INTERIOR FINISH GENERAL NOTES

1. INTERIOR FINISH MATERIALS SHALL COMPLY WITH THE FLAME SPREAD & SMOKE DEVELOPMENT LIMITATION USED IN CHAPTER 8 OF THE INTERNATIONAL BUILDING CODE.
2. ALL INTERIOR WALL COVERINGS MUST COMPLY WITH THE FOLLOWING: CLASS 1, FLAME SPREAD RATING 0-25 ASTM-E-84 PER FINISH SHEET.
3. G.C. TO SUBMIT ALL FINISHES IN MATERIAL SAMPLE FORM TO DESIGNER FOR APPROVAL PRIOR TO ORDER OF MATERIALS - NO INTERNET OR COPY FORM SUBMITTALS WILL BE APPROVED.
4. ALL WALLS TO BE PAINTED P1 AND ALL INTERIOR DOOR FRAMES TO BE PAINTED P2 UNLESS NOTED OTHERWISE. REFER TO FLOOR FINISH PLAN FOR ACCENT PAINT LOCATIONS. ALL PAINTED SURFACES TO RECEIVE (1) PRIME COAT AND A MINIMUM OF (2) FINISH COATS PER PAINT COLOR. DARKER ACCENT COLORS TO RECEIVE (3-4) FINISH COATS FOR OPTIMAL COVERAGE.
5. REFER TO REFLECTED CEILING PLAN FOR CEILING SYSTEM TYPES AND SOFFIT ACCENT PAINT COLOR LOCATIONS. ALL EXPOSED FACES OF SOFFITS TO BE PAINTED INCLUDING UNDERSIDE. ALL GYP. BD. CEILINGS TO BE PAINTED P3 UNLESS NOTED OTHERWISE.
6. REFER TO FLOOR PLAN FOR ADJUSTABLE SHELVING LOCATIONS. ADJUSTABLE SHELVING SHALL BE HEAVY DUTY WHITE MELAMINE SHELVES WITH WHITE PVC EDGES MOUNTED ON WHITE HEAVY DUTY WALL MOUNTED STANDARDS WITH WHITE ADJUSTABLE HEAVY DUTY BRACKETS UNLESS NOTED OTHERWISE.
7. ALL BUILT-IN CASEWORK TO BE VERIFIED AND COORDINATED WITH OWNER. G.C. TO SUBMIT SHOP DRAWINGS TO DESIGNER FOR APPROVAL PRIOR TO ORDER OF MATERIALS.
8. ALL HARDWARE TO BE BRUSHED STAINLESS STEEL FINISH UNLESS NOTED OTHERWISE.
9. ALL FLOORING TO RUN FROM PARTITION TO PARTITION AND CENTER FLOORING IN DOOR OPENINGS AS REQUIRED, TYPICAL THROUGHOUT.
10. PROVIDE APPROPRIATE ADA COMPLIANT TRANSITION/REDUCER STRIPS TO MATCH FLOORING AT ALL FLOORING MATERIAL TRANSITIONS AS NEEDED UNLESS NOTED OTHERWISE.
11. ALL FLOORING PATTERN/GRAIN TO RUN IN THE SAME DIRECTION THROUGHOUT UNLESS NOTED OTHERWISE. SEE FINISH FLOOR PLAN.
12. SEE FINISH FLOOR PLAN FOR WALL PROTECTION LOCATIONS. WAINSCOTS AND CORNER GUARDS WHERE NOTED TO BE INSTALLED SO THAT BOTTOM EDGE ALIGNS WITH TOP EDGE OF SPECIFIED BASE. TYPICAL THROUGHOUT. CHAIR RAIL AND RUB RAIL LOCATIONS AND HEIGHTS TO BE VERIFIED WITH OWNER/TENANT FURNITURE PRIOR TO INSTALLATION.
13. SUBMIT SHOP DRAWINGS FOR ALL WINDOW TREATMENTS TO DESIGNER FOR APPROVAL PRIOR TO ORDER OF MATERIALS.
14. PROVIDE (2) BOXES OF EACH CARPET TILE FOR TENANT'S FUTURE MAINTENANCE.

FINISH PLAN LEGEND

SYMBOL DENOTES:

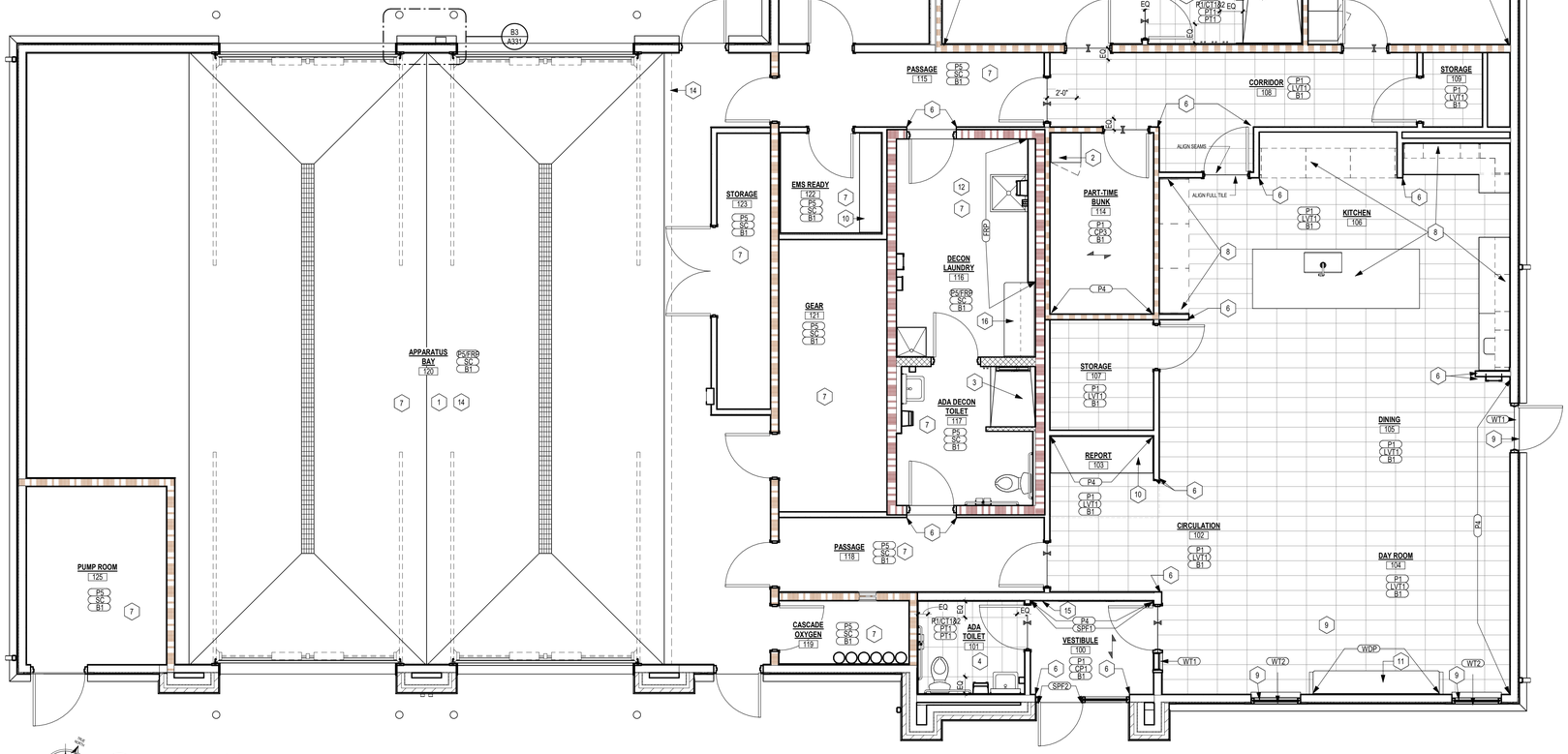
WALL FINISH
FLOOR FINISH
BASE FINISH

FLOOR MATERIAL CHANGE

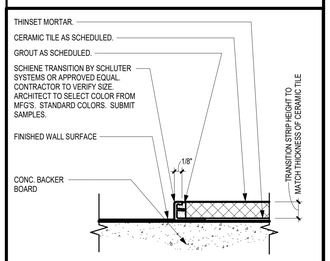
CARPET PATTERN / TILE / LVT DIRECTION

NOTE: * INDICATES THAT FINISH VARIES. REF. ELEVATIONS AND FINISH PLAN FOR ADD'L INFO

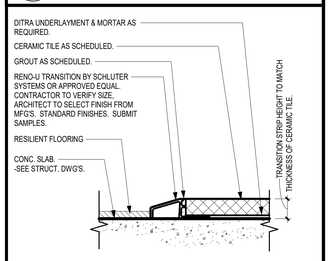
EACH ROOM SHALL HAVE A ROOM FINISH TAG. SEE FLOOR FINISH PLAN. REFER TO FINISH PLAN KEYNOTES FOR CASEWORK FINISHE AND REFLECTED CEILING PLAN FOR CEILING FINISHES.



A2 FINISH FLOOR PLAN
1/4" = 1'-0"



B7 CERAMIC TILE PERIMETER TRANSITION DETAIL "TR1"
FULL SCALE



A7 CERAMIC TILE TO LVT TRANSITION DETAIL "TR4"
FULL SCALE

STATE OF MISSOURI
ROY A. MARGAN
NUMBER A-6661
ARCHITECT
Roy A. Margan 10/16/2026
MO Architect License No: A-6661
Expires: 12/31/2026

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Revision	Date
	04/17/2026 PERMIT DOCUMENTS	
	10/02/2026 PERMIT DOCUMENTS - REVISED	
	10/16/2026 BIDDING DOCUMENTS	

FINISH FLOOR PLAN, FINISH SCHED.

Project No. 25083

Sheet No. A701

Date 10/16/2026

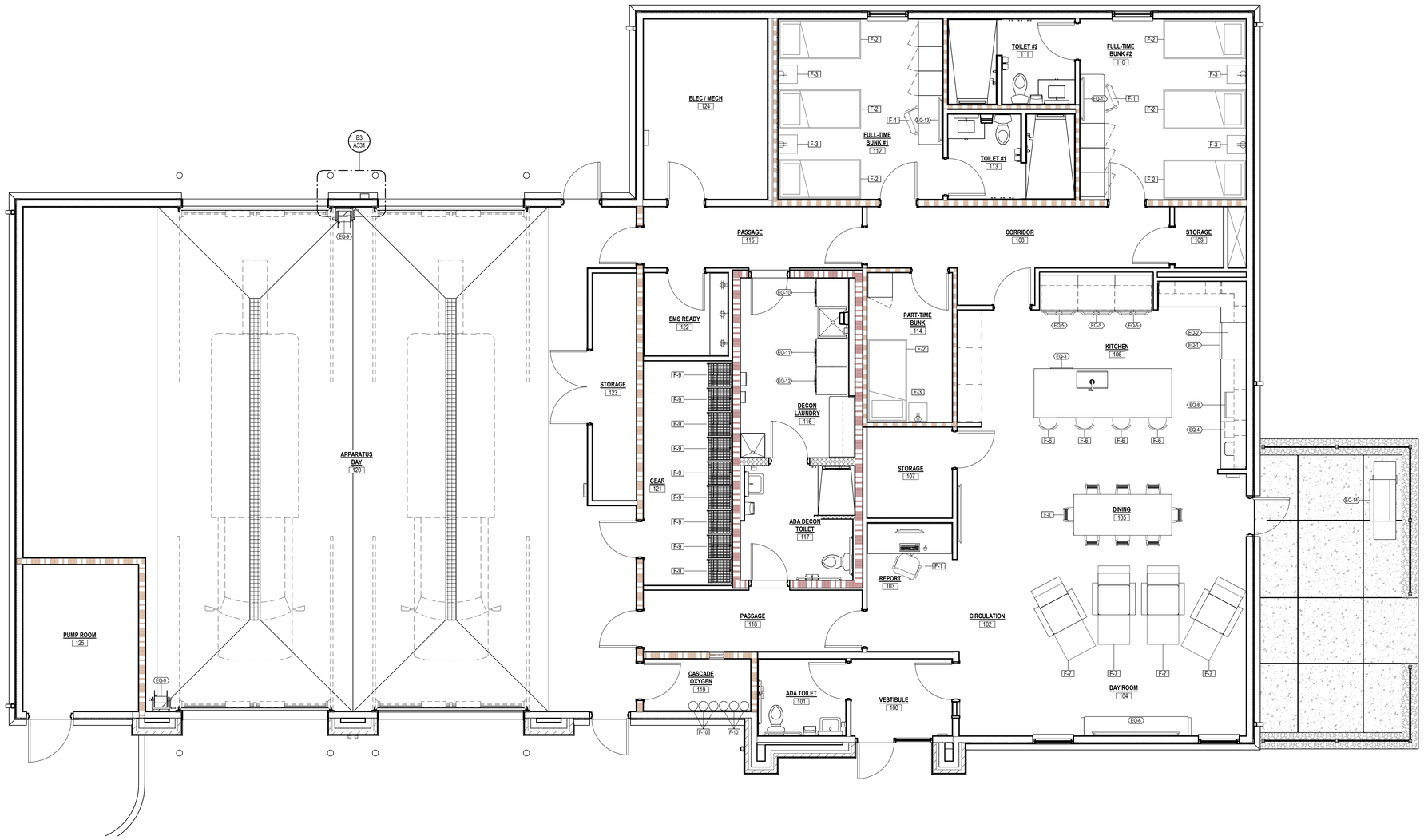
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EQUIPMENT SCHEDULE

MARK	QTY	DESCRIPTION	SUPPLY / INSTALL BY
EQ-1	1	36" WIDE ELECTRIC RANGE	OWNER / CONTRACTOR
EQ-2	1	36" WIDE VENT HOOD W/ OPTIONAL STRAIGHT DECORATIVE DUCT WRAPPER (SHROUD) -REF MEP	CONTRACTOR / CONTRACTOR
EQ-3	1	DISHWASHER	OWNER / CONTRACTOR
EQ-4	1	COFFEE MACHINE	OWNER / OWNER
EQ-5	3	36" WIDE FRENCH DOOR REFRIDGERATOR	OWNER / CONTRACTOR
EQ-6	1	98" TV MONITOR, GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-7	2	65" TV MONITOR, GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-8	1	COUNTERTOP STYLE MICROWAVE	OWNER / OWNER
EQ-9	2	HOSE REEL - SEE PLUMBING	CONTRACTOR / CONTRACTOR
EQ-10	1	WASHER - DIRTY	OWNER / CONTRACTOR
EQ-11	1	WASHER	OWNER / CONTRACTOR
EQ-12	1	DRYER	OWNER / CONTRACTOR
EQ-13	2	48" TV MONITOR, W/ WALL MOUNTED EXTENDABLEARM (24" MIN) TV BRACKET (BY OWNER) - GC TO PROVIDE BLOCKING	OWNER / OWNER
EQ-14	1	8-BURNER GRILL	OWNER / OWNER

FURNITURE SCHEDULE

MARK	QTY	DESCRIPTION	SUPPLY / INSTALL BY
F-1	3	OFFICE CHAIR	OWNER / OWNER
F-2	7	TWIN XL BED	OWNER / OWNER
F-3	5	18" x 18" END TABLE	OWNER / OWNER
F-6	4	COUNTER HEIGHT STOOL NO ARMS	OWNER / OWNER
F-7	4	RECLINER	OWNER / OWNER
F-8	1	ADA DINING TABLE AND 8 CHAIRS	OWNER / OWNER
F-9	9	GEAR LOCKER	OWNER / OWNER
F-10	6	TYPE 'H' OXYGEN TANK - SECURED TO WALL BY CHAIN	OWNER / OWNER



A1 FURNITURE & EQUIPMENT FLOOR PLAN
1/4" = 1'-0"

STATE OF MISSOURI
ROY A. MANGAN
NUMBER A-6661
ARCHITECT
Roy A. Mangan 10/16/2026
MO Architect License No: A-6661
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DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

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		04/14/2026
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	PERMIT DOCUMENTS - REVISED	10/16/2026
	BIDDING DOCUMENTS	

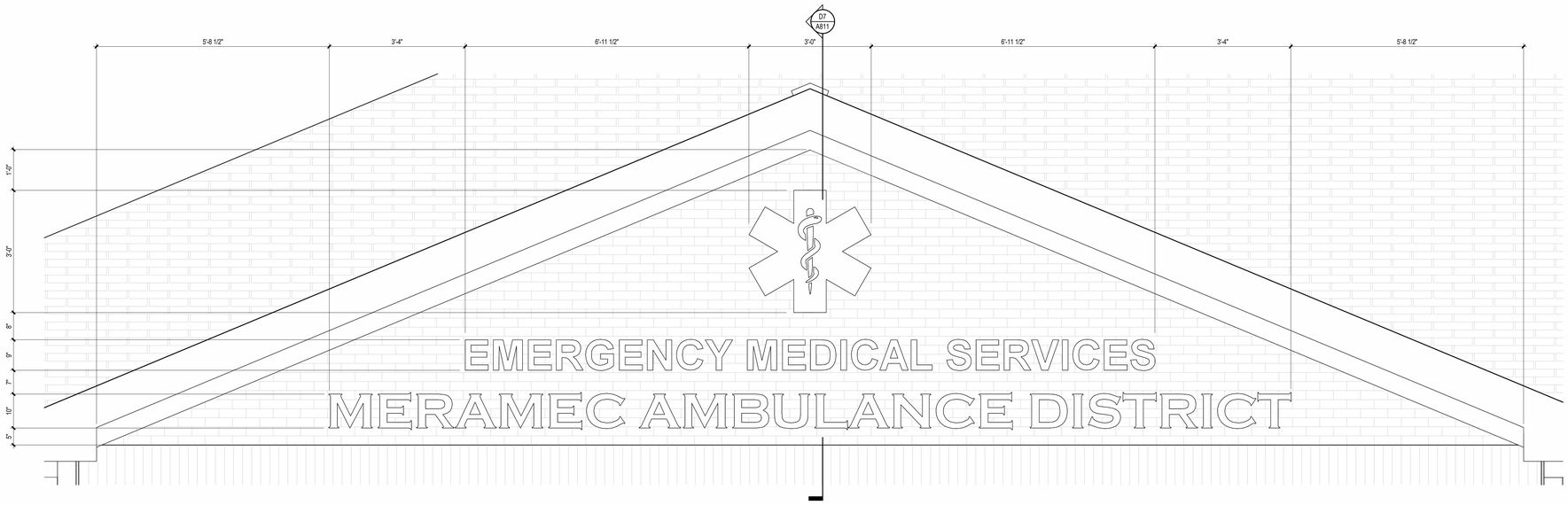
FURNITURE & EQUIPMENT PLAN

Project No.
25083

Sheet No.
A801

Date
10/16/2026

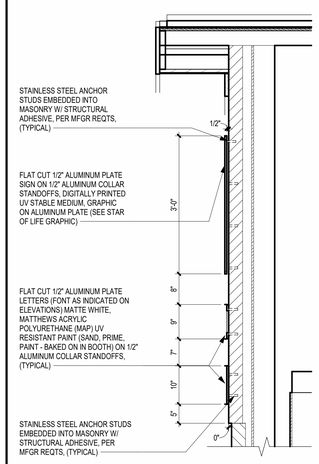
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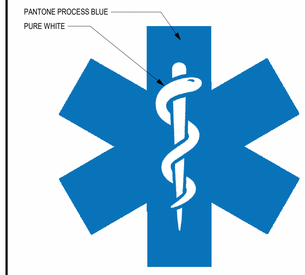
D1 SIGNAGE EXTERIOR - LOGO MARK & FONT TYPE
3/4" = 1'-0"

SIGNAGE GENERAL NOTES

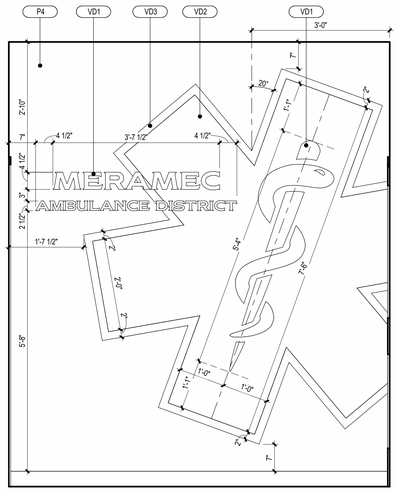
1. ALL SIGNAGE AND GRAPHICS ON SHEET A811 ARE TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
2. REFER TO FINISH SCHEDULE SHEET A701 FOR PRODUCT AND FINISH INFORMATION.



D7 SIGNAGE EXT - MAD EMS SIDE
3/4" = 1'-0"



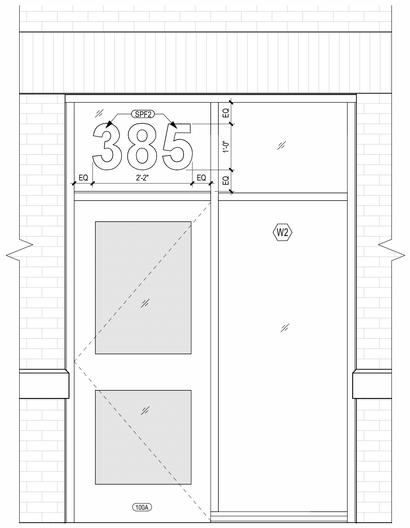
C7 SIGNAGE EXT - STAR OF LIFE
N.T.S.



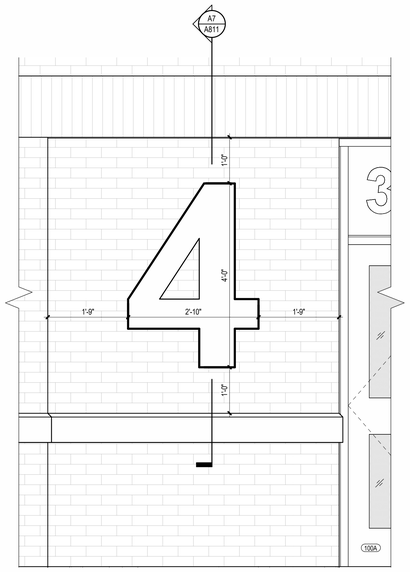
A1 SIGNAGE INT - VESTIBULE VINYL
3/4" = 1'-0"



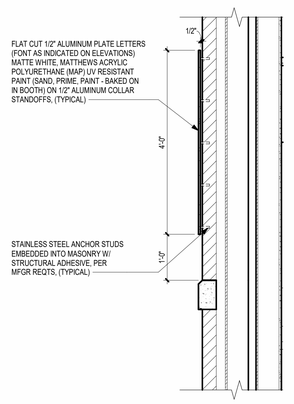
A2 SIGNAGE INT - VESTIBULE VINYL COLOR
3/4" = 1'-0"



A4 SIGNAGE EXTERIOR - ADDRESS NUMBERS
3/4" = 1'-0"



A5 SIGNAGE EXTERIOR - 4
3/4" = 1'-0"



A7 SIGNAGE - 4 SIDE
3/4" = 1'-0"

STATE OF MISSOURI
ROY A. MANGAN
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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	10/7/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

SIGNAGE

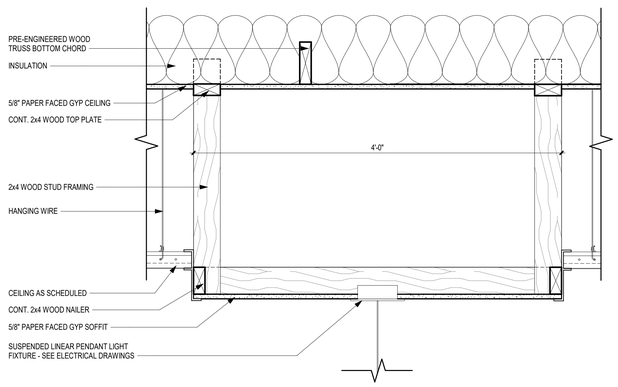
Project No.
25083

Sheet No.
A811

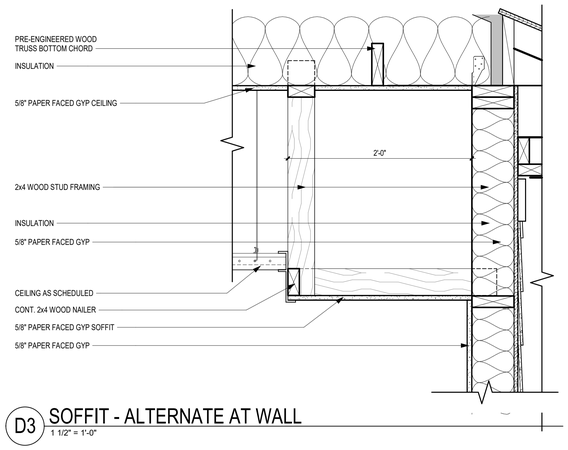
Date
10/16/2026

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"

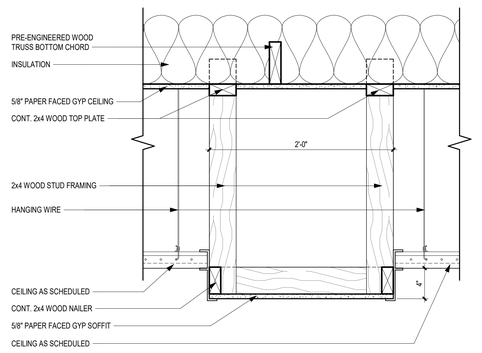
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D1 SOFFIT - ALTERNATE AT KITCHEN
1 1/2" = 1'-0"



D3 SOFFIT - ALTERNATE AT WALL
1 1/2" = 1'-0"



D5 SOFFIT - ALTERNATE AT DAY ROOM
1 1/2" = 1'-0"

CEILING PLAN GENERAL NOTES

1. INSTALL ACOUSTIC SOUND BATT INSULATION OVER ALL PARTITIONS ABOVE CEILING TO 24" EA. SIDE OF PARTITION, TYP.
2. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.
3. LIGHT FIXTURES, EXIT SIGNS, FIRE STROBES/CHIMES, ETC. TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
4. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN A RETURN AIR PLENUM.
5. ALL CEILING, BULKHEAD, AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
6. PAINT ALL GYPSUM BOARD SOFFITS AND CEILINGS. REFERENCE REFLECTED CEILING PLAN.
7. ALL FLOATING "CLOUD" CEILINGS ARE TO BE HUNG WITH AIRCRAFT CABLE (NO EXCEPTIONS) IF APPLICABLE TO THIS PROJECT.
8. SUPPLY AND INSTALL SOUND BOOTS ON ALL DIFFUSERS OPEN TO THE CEILING PLENUM, TYP.
9. SHOULD ANY CONFLICT ARISE BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
10. REFERENCE MECHANICAL DRAWINGS FOR BALANCE OF MECHANICAL INFORMATION (i.e. SUPPLY DIFFUSERS, RETURN AIR GRILLES, ETC.).
11. REFERENCE ELECTRICAL DRAWINGS FOR BALANCE OF LIGHTING INFORMATION. NOTE: ALL FIXTURES LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
12. WHERE SPRINKLERS ARE USED, REFERENCE FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS. THIS DRAWING IS FOR COORDINATION CONCEPTS ONLY. **NOTE**: ALL SPRINKLER HEADS LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
13. WHERE SPRINKLER SYSTEMS ARE USED PROVIDE CONCEALED WHITE SPRINKLERS AT ALL GYPSUM BOARD CEILINGS AND SOFFITS UNLESS NOTED OTHERWISE
14. FIRE PROTECTION DESIGN-BUILD CONTRACTOR TO REWORK EXISTING/INSTALL NEW SPRINKLER LINES AND DEVICES IN THE AREA OF WORK TO PROVIDE PROPER COVERAGE PER GOVERNING CODES. SPRINKLER HEADS TO MATCH BUILDING STANDARD. VERIFY WORK REQUIRED.
15. PROVIDE 5/8" THK. MOLD & MOISTURE RESISTANT GYPSUM BOARD TO ALL APPARATUS BAY CEILINGS.

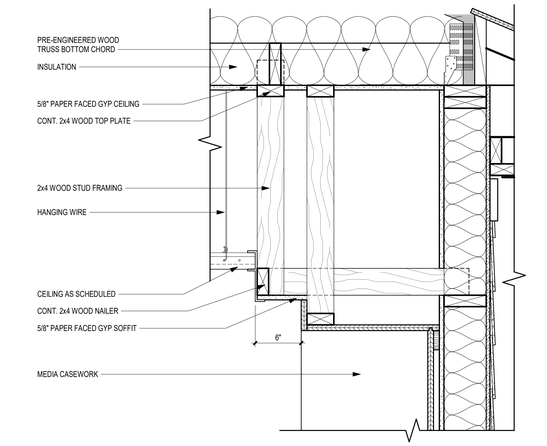
CEILING PLAN LEGEND

NOTES:
* SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.

	SECOND LOOK (SIMULATED 2'X2' PANEL) 2' X 4' LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM.
	PAINTED SUSPENDED 5/8" FLAT GYPSUM BOARD CEILING ON METAL SUSPENSION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
	RECESSED LAY-IN LIGHT FIXTURE 2' x 2' OR 2' x 4' AS SHOWN
	SURFACE MOUNTED LINEAR LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	CEILING MOUNTED FAN
ACT1	SECOND LOOK (SIMULATED 2'X2' PANEL) 2' X 4' LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM.
GYP1	PAINTED 5/8" FLAT GYPSUM BOARD CEILING ON 2X WOOD FRAMING. PROVIDE APPLICABLE DRAFT & FIRE STOPPING AS REQUIRED.
GYP2	PAINTED SUSPENDED 5/8" FLAT GYPSUM BOARD CEILING ON METAL SUSPENSION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
GYP3	PAINTED 5/8" FLAT GYPSUM BOARD CEILING DIRECT CONNECTED TO BOTTOM CHORD OF TRUSS.
P3	PAINT – GYP BD. CEILINGS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, FLAT COLOR: SW7005 PURE WHITE
P4	PAINT – WALLS – ACCENT WALL OFFICE & BUNKS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, EGGSHELL COLOR: SW7018 DOVETAIL
P8	PAINT – APP BAY CLGS, DECON CLGS MFGR: SHERWIN WILLIAMS SERIES: EPOXY, FINISH: SEMI GLOSS COLOR: SW7005 PURE WHITE

ALTERNATE 2 GENERAL NOTES

1. KITCHEN ISLAND AND DAY ROOM SOFFITS ARE THE ONLY ITEMS IN THIS ALTERNATE



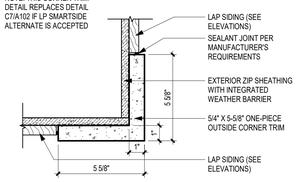
C1 SOFFIT - ALTERNATE AT MEDIA CASEWORK
1 1/2" = 1'-0"

EXT. BUILDING MATERIALS LEGEND: ALTERNATE 4

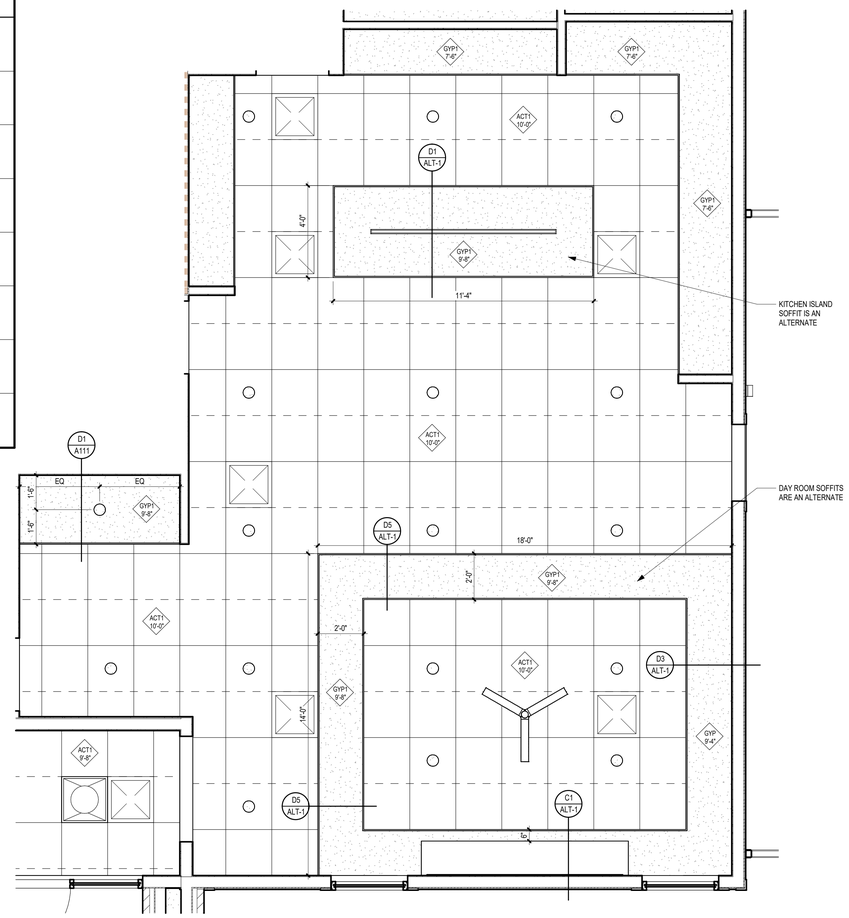
MARK	DESCRIPTION: LP SMARTSIDE SIDING & TRIM
SID-1	**EXTERIOR LAP SIDING**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE LAP SIDING **COLOR**: TUNDRA GRAY (B.O.D.). FINAL SELECTION BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS. **TEXTURE**: CEDAR; **SIZE**: 7.84"
SOF-1	**EXTERIOR VENTED SOFFIT**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE LAP SIDING **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. VENTED
SOF-2	**EXTERIOR NON-VENTED SOFFIT**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE LAP SIDING **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 2'-0" W. TYP U.N.O. NON-VENTED
TRM-1	**FASCIA**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 11.21" WIDE
TRM-2	**SIDING TRIM**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 5.5" WIDE
TRM-3	**SIDING TRIM**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 7.21" WIDE
TRM-4	**SIDING TRIM**: **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 9.25" WIDE
TRM-5	**SIDING CORNER TRIM**: OUTSIDE CORNER **BASIS OF DESIGN**: LP SOLUTIONS, LP SMARTSIDE TRIM, SERIES 540 **COLOR**: SNOWSCAPE WHITE **TEXTURE**: BRUSHED SMOOTH **SIZE**: 0.91" THK X 5.625" WIDE CORNER

ALTERNATE 4:
LP SMARTSIDE
OUTSIDE CORNER TRIM

NOTE: THIS CORNER TRIM DETAIL REPLACES DETAIL C7/A102 IF LP SMARTSIDE ALTERNATE IS ACCEPTED



B1 TYPICAL EXTERIOR OUTSIDE CORNER DETAIL
3" = 1'-0"



A3 ALTERNATE 2 - CEILING PLAN - DAY ROOM / KITCHEN ISLAND
3/8" = 1'-0"

ROY A. MANGAN — STATE OF MISSOURI — LICENSED NUMBER A-6661 — ARCHITECT
Roy A. Mangan 10/16/2026
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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
365 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
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ALTERNATE 2&4 CEILING PLAN & DTLS

Project No. 25083

Sheet No. ALT-1

Date 10/16/2026

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STRUCTURAL GENERAL NOTES

DIVISION 1 - GENERAL REQUIREMENTS

1. CONSTRUCTION MEANS AND METHODS
   A. CONTRACTOR AND SUBS SHALL NOT SCALE DRAWINGS FOR PURPOSES OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES FOUND BETWEEN DISCIPLINES.
   B. CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD OWNER AND STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER OR STRUCTURAL ENGINEER.
   C. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: PROTECTION OF SUBGRADE FROM FREEZING CONDITIONS, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
   D. KPFF CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.
   E. KPFF CONSULTING ENGINEERS SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. KPFF CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.
   F. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS WHICH MAY BE REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DETERMINED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

2. SUBMITTALS
   A. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT.
   B. REPRODUCTION OF STRUCTURAL DRAWINGS SHALL BE IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE.
   C. CAD FILES PREPARED USING kpff STANDARDS MAY BE MADE AVAILABLE TO THE GENERAL CONTRACTOR UPON RECEIPT OF AN EXECUTED CAD FILE TRANSFER AGREEMENT BETWEEN kpff AND THE GENERAL CONTRACTOR. IN THE EVENT CAD FILES ARE MADE AVAILABLE, ONE COPY IN AUTOCAD 2013 FORMAT WILL BE PROVIDED TO THE GENERAL CONTRACTOR EXCLUSIVELY FOR THIS PROJECT AND DISTRIBUTION TO ITS SUBCONTRACTORS WORKING ON THE PROJECT.
   D. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED EQUIPMENT WEIGHTS, OPENING SIZES, AND LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS WITH DOCUMENTS FROM OTHER DISCIPLINES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
   E. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZE, METHOD OF ANCHORAGE, WEIGHT, OPENINGS, AND LOCATIONS OF EQUIPMENT NOT INDICATED ON THE STRUCTURAL DRAWINGS PRIOR TO ORDERING FOR REVIEW BY STRUCTURAL ENGINEER TO DETERMINE ADEQUACY OF THE STRUCTURE.
   F. ALL SUBMITTALS REVIEWED BY STRUCTURAL ENGINEER ARE REVIEWED FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY AND DOES NOT RELIEVE THE FABRICATOR/VENDOR OF RESPONSIBILITY FOR CONFORMANCE WITH DESIGN DRAWINGS AND SPECIFICATIONS, ALL OF WHICH HAVE PRIORITY OVER SUBMITTALS.
   G. SUBMITTALS SHALL BE REVIEWED WITHIN 10WORKING DAYS AFTER BEING RECEIVED BY STRUCTURAL ENGINEER.

3. QUALITY REQUIREMENTS
   A. REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.
   B. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION.
   C. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION OR CODE, WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS, SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO STRUCTURAL ENGINEER OR ANY OF STRUCTURAL ENGINEER'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
   D. ALL OMISSIONS AND CONFLICTS WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
   E. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
   F. SEE DOCUMENTS BY OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC.
   G. NO PIPES, CONDUITS, SLEEVES, DUCTS, CHASES, ETC. SHALL BE PLACED WITHIN STRUCTURAL WALLS, BEAMS, SLABS OR COLUMNS NOR SHALL ANY STRUCTURAL MEMBERS BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY NOTED. NOTIFY STRUCTURAL ENGINEER WHEN DOCUMENTS BY OTHER DISCIPLINES SHOW OPENINGS, POCKETS, CONDUITS, PIPES, SLEEVES, ETC. NOT INDICATED IN THE STRUCTURAL DRAWINGS, BUT ARE LOCATED IN STRUCTURAL MEMBERS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER FOR INSTALLATION OF SUCH PIPES, DUCTS, CHASES, ETC.
   H. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED. WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR CONDITIONS.
   I. THE DESIGN RESPONSIBILITY OF THE ELEMENTS LISTED BELOW IS BEING DELEGATED TO A SPECIALTY STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR. THE DESIGNATED ELEMENTS SHALL BE DESIGNED IN ACCORDANCE WITH THE GOVERNING BUILDING CODE, LOCAL AMENDMENTS, AND SPECIFIC REQUIREMENTS IN THE CONTRACT DOCUMENTS BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS SHALL BE SEALED BY THE RESPONSIBLE LICENSED ENGINEER. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS TO PRIMARY STRUCTURE SHALL BE DESIGNED BY A SPECIALTY STRUCTURAL ENGINEER:
      1. SUPPORT AND SEISMIC BRACING OF MECHANICAL, ELECTRICAL PLUMBING, AND FIRE PROTECTION (M/E/P/FP) SYSTEMS COMPONENTS
      2. STAIRS, HANDRAILS AND GUARDRAILS
      3. PRE-ENGINEERED CANOPIES AND THEIR CONNECTIONS TO SUPPORTING STRUCTURE
      4. LADDERS
      5. PRE-ENGINEERED ROOF TRUSSES

4. STRUCTURAL SPECIAL INSPECTIONS
   A. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE GOVERNING BUILDING CODE AND THE STATEMENT OF SPECIAL INSPECTIONS ON SHEET S103.

5. DESIGN CRITERIA:
   A. THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE ICC INTERNATIONAL BUILDING CODE, 2021 EDITION.
      1. BUILDING RISK CATEGORY IV.
   B. GRAVITY LOADS:
      1. UNIFORM ROOF LIVE LOADS:
         a. LIVE LOAD: 20 PSF
         b. SNOW LOAD:
            1. GROUND SNOW LOAD, P_G: 20 PSF
            2. FLAT ROOF SNOW LOAD, P_f: 24 PSF, MIN
            3. SNOW EXPOSURE FACTOR, C_E: 1.0
            4. SNOW IMPORTANCE FACTOR: 1.2
            5. SNOW THERMAL FACTOR, C_T: 1.0
            6. SNOW DRIFT PLAN: SEE <INSERT CORRECT DETAIL/SHEET NUMBER>
      2. RAIN INTENSITY: 6.82 IN/HR (15 MIN INTENSITY, 100 YEAR) 3.2 IN/HR (60 MIN INTENSITY, 100 YEAR)
      3. UNIFORM FLOOR LIVE LOADS:

UNINHABITABLE ATTICS WITH STORAGE	20 PSF
CATWALKS FOR MAINTENANCE AND SERVICE ACCESS	50 PSF
CORRIDORS - 1ST FLOOR	100 PSF
GYMNASIUM	100 PSF
OFFICES	50 PSF
PUBLIC ROOMS	100 PSF
STAIRS	100 PSF
LIGHT STORAGE	125 PSF

      4. CONCENTRATED FLOOR LIVE LOADS
         a. LOADS ARE DISTRIBUTED OVER AN AREA OF 2-1/2 SQ. FT., UNLESS NOTED OTHERWISE.
            STAIRS 300 LB (OVER 4 SQ. IN.)
      5. CONCENTRATED LATERAL LIVE LOADS
         a. HANDRAIL ASSEMBLIES:
            1. TOP RAIL: 200 LB. OR 50 LB/FT APPLIED NON-CONCURRENTLY IN ANY DIRECTION.
            2. INTERMEDIATE RAILS, BALUSTERS, FILLER PANELS, ETC.: 50 PSF APPLIED NON-CONCURRENTLY WITH THE TOP RAIL LOAD.
         b. VEHICLE BARRIER SYSTEMS: 6,000 LB. APPLIED IN ANY DIRECTION AT 18 INCHES TO 27 INCHES ABOVE THE DRIVING SURFACE.
   C. LATERAL LOADS:
      1. WIND DESIGN DATA
         a. BASIC WIND SPEED:
            1. ULTIMATE DESIGN WIND SPEED, V_{ULT}: 119 MPH
            2. NOMINAL DESIGN WIND SPEED, V_{ASD}: 92 MPH
         b. EXPOSURE: C
         c. ENCLOSURE CLASSIFICATION: ENCLOSED BUILDING
         d. INTERNAL PRESSURE COEFFICIENT: +/-0.18
         e. COMPONENTS AND CLADDING DESIGN WIND PRESSURE IN POUNDS PER SQUARE FOOT (+ WINDWARD PRESSURE / - LEEWARD PRESSURE)

EFFECTIVE WIND AREA

	10 SF	100 SF	500 SF
ZONE 1	+24.4/-43.8	+16.0/-27.2	+16.0/-27.2
ZONE 2e	+24.4/-60.4	+16.0/-39.1	+16.0/-32.7
ZONE 2r	+24.4/-60.4	+16.0/-39.1	+16.0/-32.7
ZONE 3	+24.4/-60.4	+16.0/-39.1	+16.0/-32.7
ZONE 4	+32.7/-35.5	+27.8/-30.6	+24.4/-27.2
ZONE 5	+32.7/-43.8	+27.8/-34.0	+24.4/-27.2

   2. EARTHQUAKE DESIGN DATA
      a. SEISMIC IMPORTANCE FACTOR:1.5
      b. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_{DS}=0.351, S_1=0.144
      c. SITE CLASSIFICATION: C
      d. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_{DS}=0.304, S_{D1}=0.144
      e. SEISMIC DESIGN CATEGORY: D
      f. BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAMED WOOD WALLS WITH WOOD SHEAR PANELS
      g. DESIGN BASE SHEAR: V= 17.3K
      h. SEISMIC RESPONSE COEFFICIENT: C_S= 0.070
      i. RESPONSE MODIFICATION FACTOR, R: 6.5
      j. DEFLECTION AMPLIFICATION FACTOR, C_D: 4
      k. OVERSTRENGTH FACTOR, Ω: 2.5
      l. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
   3. MEP SEISMIC ANCHORAGE
      a. CONTRACTOR SHALL DESIGN AND INSTALL MEP SUPPORTS IN ACCORDANCE WITH THE LATEST LOCAL ORDINANCES AND BUILDING CODE.
      b. POWER ACTUATED FASTENERS INSTALLED IN CONCRETE SHALL NOT BE USED TO RESIST SEISMIC LOADS.

DIVISION 2 - FOUNDATIONS

1. GENERAL
   A. FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY SCI ENGINEERING, INC. DATED NOVEMBER 21, 2025. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE DIFFERENT FROM THOSE ASSUMED IN DESIGN.
      1. PREPARE BUILDING SITE IN ACCORDANCE WITH GEOTECHNICAL AND CIVIL RECOMMENDATIONS AND SPECIFICATIONS. SITE IS UNDERLAIN WITH UNSUITABLE MATERIAL THAT SHALL BE REMEDIATED IN ACCORDANCE WITH GEOTECHNICAL REPORT.
   B. OWNER'S GEOTECHNICAL REPRESENTATIVE SHALL CERTIFY THE BEARING MEDIUM.
   C. EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.
   D. BOTTOM OF EXTERIOR FOUNDATIONS SHALL BE A MINIMUM OF 30 INCHES BELOW THE LOWEST FINISHED ELEVATION FOR FROST PROTECTION.

2. BRACING AND SHORING
   A. FOUNDATION WALLS SHALL BE BRACED LATERALLY UNTIL COMPLETE FLOOR AND ROOF SYSTEMS ARE IN PLACE.
   B. CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER SHALL DESIGN TEMPORARY BRACING FOR BACKFILL AGAINST THE FOUNDATION WALL.
   C. CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER SHALL DESIGN SHORING OF EXISTING CONSTRUCTION.

3. FOOTINGS
   A. INDIVIDUAL SPREAD FOOTINGS AND CONTINUOUS FOOTINGS SHALL BEAR ON AND BE FORMED BY CLEAN, UNDISTURBED, VIRGIN, SUB-SOIL OR COMPACTED ENGINEERED FILL WITH AN ALLOWABLE BEARING PRESSURE OF 3000 PSF AND 2500 PSF, RESPECTIVELY.
      1. NO FOOTING SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW THE BOTTOM OF FOOTING AND REPLACE WITH COMPACTED ENGINEERED FILL.

DIVISION 3 - CONCRETE

1. REINFORCING
   A. GENERAL
      1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT ALLOWED.
      2. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, DEFORMED BARS.
      3. EPOXY-COATED REINFORCING STEEL SHALL BE ASTM A775.
      4. WELDED WIRE REINFORCING SHALL BE ASTM A1064, CONTACT LAP SPLICED 12 INCHES MINIMUM.
      5. ALL REINFORCING BARS SHALL BE DETAILED, FABRICATED, SUPPORTED, AND PLACED IN ACCORDANCE WITH ACI 301 AND CRSI'S "MANUAL OF STANDARD PRACTICE", UNLESS NOTED OTHERWISE.
      6. REINFORCING, INCLUDING DOWELS, SHALL BE SECURELY TIED AND CAST WITH THE LOWER MEMBER. PLACING REINFORCING AFTER CONCRETE HAS BEEN PLACED IS NOT PERMITTED.
      7. FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR APPROVED BY STRUCTURAL ENGINEER.
      8. PROVIDE DOWELS FROM FOUNDATION THE SAME GRADE, SIZE, AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
      9. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS.
      10. ADHESIVE FOR REINFORCING DOWELS INTO EXISTING CONCRETE SHALL BE HILTI HIT-HY 200 V3 SYSTEM (ICC-ESR 4868), MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS UNLESS NOTED OTHERWISE. ALTERNATE WILL BE ACCEPTED ONLY IF A SIGNED AND SEALED ENGINEERING ANALYSIS IS PROVIDED FOR THE ALTERNATE. REINFORCING STEEL USED WITH THE ADHESIVE SYSTEM SHALL CONFORM TO ASTM A615, UNLESS NOTED OTHERWISE. ALL REINFORCING SHALL BE CLEAN, OIL FREE, AND CLEAN OF ALL LOOSE MATERIALS. SEE POST INSTALLED ANCHOR NOTES BELOW FOR ADDITIONAL CONCRETE REQUIREMENTS.
      11. MECHANICAL COUPLERS SHALL BE UNI-AXIAL TYPE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION. SPLICES MADE USING MECHANICAL COUPLERS SHALL BE STAGGERED BY TWICE THE LENGTH OF THE COUPLER.
      12. ALL REINFORCING SHALL BE CONTACT LAP SPLICED OR DOWELED AS FOLLOWS:

#3 BARS	25"	#7 BARS	71"
#4 BARS	33"	#8 BARS	81"
#5 BARS	41"	#9 BARS	91"
#6 BARS	49"	#10 BARS	102"

   B. WALLS
      1. PROVIDE #5 AT 12" O.C. HORIZONTAL AND VERTICAL IN EACH FACE OF ALL WALLS 10" AND THICKER, UNLESS NOTED OTHERWISE.
      2. PROVIDE #5 AT 12" O.C. HORIZONTAL AND VERTICAL AT CENTER OF ALL WALLS 8" AND THINNER, UNLESS NOTED OTHERWISE.
   C. BEAMS
      1. PROVIDE 2-#5 STIRRUP SPACERS IN ALL BEAMS.
   D. SLABS
      1. PROVIDE SLAB BOLSTERS, HIGH CHAIRS, AND #5 SUPPORT BARS AS NECESSARY TO MAINTAIN PROPER PLACEMENT OF REINFORCING.
      2. PROVIDE 2-#5 TOP X 5'-0" DIAGONALS AT CORNERS OF OPENINGS AND RE-ENTRANT CORNERS, UNLESS NOTED OTHERWISE.

2. CAST-IN-PLACE CONCRETE
   A. REINFORCED CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI.
   B. ALL CONCRETE MIX DESIGNS USED IN CONCRETE EXPOSED TO VIEW SHALL BE FREE OF LIGNITE.
   C. ALL CONCRETE TO HAVE THE FOLLOWING UNIT WEIGHTS (+/- 3 PCF): *<COORDINATE THIS SECTION WITH SPECS>*
      1. NORMAL WEIGHT CONCRETE: PLASTIC = 145 PCF
   D. ALL CONCRETE EXPOSED TO FREEZING AND THAWING AND DEICER CHEMICALS SHALL HAVE 6% (+1%/-1.5%) AIR ENTRAINMENT. DO NOT AIR ENTRAIN CONCRETE TO BE TROWEL FINISHED.
   E. PROVIDE CONCRETE COVER FOR REINFORCING AS FOLLOWS:

1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
2. CONCRETE EXPOSED TO EARTH OR WEATHER	2"
3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
a. SLABS AND WALLS	3/4"
b. BEAMS AND COLUMNS	1-1/2"

   F. FOR CONCRETE CAST ON METAL DECK, CONCRETE THICKNESS INDICATED IS NOMINAL. CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FORM ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITY AND SHALL PROVIDE A LEVEL, FINISHED SLAB ELEVATION.
   G. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB-ON-GROUND AS INDICATED IN THE STRUCTURAL DRAWINGS. IF JOINT PATTERN IS NOT INDICATED, PROVIDE JOINTS AT 10 FEET (+/-) IN BOTH DIRECTIONS AND LOCATED TO CONFORM TO BAY SPACING WHEREVER POSSIBLE (AT COLUMN CENTERLINES, HALF BAYS, THIRD BAYS, ETC.)
   H. CONSTRUCTION JOINTS IN WALLS SHALL BE KEYED AND PLACED AT LOCATIONS APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
   I. INTERFACE OF CONSTRUCTION JOINTS SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4". SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED.
   J. RETAINING WALLS WHICH WILL BE EXPOSED TO VIEW SHALL HAVE VERTICAL CONTROL JOINTS PROVIDED AT 10 FEET TO 15 FEET ON CENTER THE FULL LENGTH OF THE WALL.
   K. SEE ARCHITECTURAL DRAWINGS FOR WATERSTOPS.
   L. PROVIDE WATERSTOPS IN BELOW GRADE CONSTRUCTION JOINTS AND AT OTHER LOCATIONS AS INDICATED.
   M. PROVIDE COMPRESSIBLE FILLER AND SEALANT IN SLAB-ON-GROUND AND WALL AND COLUMN INTERFACES THAT ARE NOT DOWELED TOGETHER.
   N. ALL COLUMN POCKETS SHALL BE FILLED WITH CONCRETE AFTER COLUMN IS ERECTED.
   O. NON-STRUCTURAL EMBEDMENTS (CONDUIT, PIPES, SLEEVES, ETC.)WITHIN WALLS, BEAMS, OR SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL EMBEDMENTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI STANDARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
      1. ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
      2. OVERALL OUTSIDE DIMENSION OF EMBEDMENTS SHALL NOT EXCEED 1/3 THE CONCRETE MEMBER THICKNESS UP TO 2 INCH MAXIMUM.
         a. FOR CONCRETE SLABS ON METAL DECK THE MEMBER THICKNESS SHALL BE THE CONTINUOUS SLAB THICKNESS ABOVE THE DECK.
      3. EMBEDMENTS SHALL BE SPACED A MINIMUM OF 6 INCHES ON CENTER.
      4. EMBEDMENTS SHALL NOT ALTER OR DISPLACE REINFORCING.
      5. EMBEDMENTS WITHIN COLUMNS SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE AREA OF THE COLUMN CROSS SECTION.
   P. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADS UNDER EQUIPMENT, UNLESS NOTED OTHERWISE. PADS SHALL EXTEND BEYOND EQUIPMENT 6" NOMINAL ON ALL SIDES. APPLY BONDING AGENT TO EXISTING CONCRETE SLAB PRIOR TO PLACING HOUSEKEEPING PAD. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR EQUIPMENT LOCATIONS.
   Q. AT FLOOR DRAINS, LOCALLY SLOPE FLOOR TOWARDS DRAIN. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR DRAIN LOCATIONS.
   R. UNLESS NOTED OTHERWISE, STRUCTURAL SLABS EXPOSED TO WEATHER SHALL BE SLOPED APPROXIMATELY 1/4 INCH PER FOOT AWAY FROM OCCUPIED SPACE TOWARD FLOOR DRAINS, SCUPPERS, GUTTERS, ETC. FOR EXTERIOR NON-STRUCTURAL FLATWORK (E.G., SIDEWALKS, PAVEMENT) REFERENCE CIVIL DOCUMENTS.
   S. SEE ARCHITECTURAL DOCUMENTS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, ETC. REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.

DIVISION 4 - MASONRY

1. CONCRETE MASONRY
   A. CONCRETE MASONRY UNITS SHALL BE ASTM C90, NORMAL WEIGHT (135 PCF).
   B. PROVIDE CONCRETE UNIT MASONRY THAT DEVELOPS THE FOLLOWING MINIMUM NET-AREA COMPRESSIVE STRENGTH (f'M) AT 28-DAYS: 2000 PSI.
   C. MORTAR SHALL BE OF THE FOLLOWING TYPES:
      1. WALLS BELOW GRADE: TYPE M
      2. BEARING WALLS: TYPE M OR S
   D. GROUT SHALL CONFORM TO ASTM C476. GROUT SHALL BE PROPORTIONED WITH A SLUMP OF 8" TO 11" USING 3/8" NOMINAL MAXIMUM SIZE COARSE AGGREGATE.
   E. GROUT VERTICAL REINFORCED CELLS AND BOND BEAMS SOLID.
   F. INSULATION SHALL NOT BE PERMITTED IN REINFORCED CELLS.
   G. GROUT CONCRETE MASONRY BELOW GRADE SOLID. GROUT CAVITIES OF MULTI-WYTHE WALLS BELOW GRADE.
   H. ALL VERTICAL CELLS TO BE GROUTED SHALL HAVE VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 2" X 3".
   I. GROUT SOLID UNDER BEAMS AND LINTELS FOR FULL HEIGHT OF WALL.
   J. CONDUITS, PIPES, AND SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER.
   K. MAXIMUM AREA OF VERTICAL CONDUITS, PIPES, OR SLEEVES PLACED IN COLUMNS OR PILASTERS SHALL NOT DISPLACE MORE THAN 2 PERCENT OF THE NET CROSS SECTION.

2. REINFORCING
   A. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT ALLOWED.
   B. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, DEFORMED BARS.
   C. JOINT REINFORCING SHALL BE LADDER TYPE CONFORMING TO ASTM A951, WITH PREFABRICATED CORNER AND TEE UNITS AT CORNERS AND INTERSECTIONS.
   D. DOWELS TO SUPPORTING STRUCTURE SHALL BE SAME GRADE, SIZE, AND NUMBER AS VERTICAL REINFORCING.
   E. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS.
   F. VERTICAL REINFORCING SHALL BE CENTERED IN WALL, UNLESS NOTED OTHERWISE.
   G. ALL VERTICAL REINFORCING CENTERED IN CMU SHALL BE CONTACT LAP SPLICED OR DOWELED AS FOLLOWS:

#4 BARS	13"
#5 BARS	20"
#6 BARS	38"
#7 BARS	52"
#8 BARS	72"

   H. ALL OTHER REINFORCING (HORIZONTAL REINFORCING, VERTICAL REINFORCING AT FACE, ETC.) SHALL BE CONTACT LAP SPLICED OR DOWELED AS FOLLOWS:

#4 BARS	30"
#5 BARS	45"
#6 BARS	54"
#7 BARS	63"
#8 BARS	72"

   I. JOINT REINFORCING SHALL BE LAPPED 6".
   J. PROVIDE MASONRY COVER FOR REINFORCING NOT LESS THAN THE FOLLOWING:
      1. MASONRY FACE EXPOSED TO EARTH OR WEATHER 2"
      2. MASONRY NOT EXPOSED TO EARTH OR WEATHER 1-1/2"
   K. REINFORCE CONCRETE MASONRY VERTICALLY AS INDICATED IN THE STRUCTURAL DRAWINGS.
   L. AT INTERIOR NON-LOAD BEARING MASONRY WALL PARTITIONS SHOWN ON ARCHITECTURAL DRAWINGS, REINFORCE CONCRETE MASONRY VERTICALLY WITH #5 REBAR FULL HEIGHT AT 32" O.C.
   M. SPACE JOINT REINFORCEMENT AT 16" O.C. VERTICALLY TYPICAL AND AT 8" O.C. VERTICALLY AT PARAPETS AND AT CANTILEVERED WALLS, UNLESS NOTED OTHERWISE.
   N. REINFORCE BOND BEAMS WITH 2-#5 REBARS CONTINUOUS, UNLESS NOTED OTHERWISE.
   O. PROVIDE #5 REBAR AT ALL SIDES OF OPENINGS, TO EXTEND A MINIMUM OF 30" BEYOND THE OPENING, UNLESS NOTED OTHERWISE.

DIVISION 5 - METALS

1. STRUCTURAL STEEL
   A. GENERAL
      1. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING:
         a. AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
         b. AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
         c. SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS
      2. ALL STEEL PERMANENTLY EXPOSED TO VIEW SHALL BE DESIGNATED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.
      3. ALL EXPOSED EXTERIOR STEEL SHALL BE GALVANIZED.
      4. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE.

a.	W'S, WT'S, C'S, & MC'S	ASTM A992
b.	PLATES & OTHER SHAPES	ASTM A572, GRADE 50
c.	HSS	ASTM A500, GRADE C
d.	PIPE	ASTM A53, GRADE B
e.	BOLTS	ASTM F3125, GRADE A325 HEAVY HEX HEAD OR GRADE F1852 TWIST-OFF, 3/4" DIAMETER (MIN.)
f.	ANCHOR RODS	ASTM F1554, GRADE 36 w/ A36 WASHERS & HEAVY HEX NUTS
g.	THREADED ROD	ASTM A36
h.	HEADED STUDS	AWS D1.1, TYPE B
i.	ELECTRODES	MATCHING STRENGTH, 70 KSI MIN.

      5. GENERAL NOTES FOR STEEL CONNECTIONS SHALL APPLY TO ALL STEEL CONNECTIONS UNLESS NOTED OTHERWISE.
      6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, AND FABRICATION OF ALL STEEL FRAMING CONNECTIONS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
      7. THE CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER SHALL COORDINATE AND REVIEW THE FABRICATOR'S SHOP DRAWINGS FOR CONFORMANCE WITH THEIR CONNECTION DESIGN PRIOR TO

STRUCTURAL GENERAL NOTES CONTINUED

LIST OF ABBREVIATIONS

ABOVE FINISH FLOOR	AFF
ADDITIONAL	ADDNL
ALTERNATE	ALT
ANCHOR, ANCHORAGE	ANCH
ANCHOR ROD	AR
ANTHONY POWER BEAM	APB
APPROXIMATE	APPROX
ARCHITECT	ARCH
ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	AESS
BACK TO BACK	BB
BALANCE	BAL
BASEMENT	BSMT
BEAM	BM
BEARING	BRG
BENT	BT
BETWEEN	BTWN
BLOCKING	BLKG
BOTTOM	BOT
BOTTOM OF	BI
BOTTOM OF CONCRETE	BC
BOTTOM OF METAL DECK	BMD
BOTTOM OF PIER	BP
BOTTOM OF WALL	BW
BRICKLEDGE	BL
BRIDGING	BRDG
BUILDING	BLDG
CAMBER	c OR C
CANTILEVER	CANT
CAST IN PLACE	CIP
CENTER	CTR
CENTER TO CENTER	CC
CENTERLINE	CL
CLEAR	CLR
COLD-FORMED	CF
COLD-FORMED METAL FRAMING	CFMF
COLD-FORMED STEEL	CFS
COLUMN, COLUMNS	COL
COLUMN STRIP	CS
CONCRETE	CONC
CONCRETE MASONRY UNIT	CMU
CONNECT	CONN
CONNECTION	CONX
CONSTRUCTION	CONST
CONSTRUCTION JOINT OR CONTROL JOINT	CJ
CONTINUE, CONTINUOUS	CONT
CONTRACTOR	CONTR
COORDINATE	COORD
CURTAIN WALL	CW
DEAD LOAD	DL
DEGREE	DEG
DETAIL	DTL
DIAGONAL	DIAG
DIAMETER	DIA
DIAMETER OF REBAR	DB
DOWEL	DWL
DOWN	DN
DRAWING	DWG
EACH	EA
EACH END	EE
EACH FACE	EF
EACH SIDE	ES
EACH WAY	EW
ECCENTRICALLY BRACED FRAME	EBF
EDGE NAILING	EN
EDGE OF SLAB	EOS
ELECTRICAL	ELEC
ELEVATION	EL
ELEVATOR	ELEV
EMBEDMENT	EMBED, EMB
ENGINEER	ENG
ENGINEER OF RECORD	EOR
EQUAL	EQ
EXISTING	EXIST OR (E)
EXPANSION	EXP
EXPANSION JOINT	EJ
EXTERIOR	EXT
FABRICATOR	FAB
FACE OF BRICK	FOB
FAR FACE	FF
FAR SIDE	FS
FIELD VERIFY	FV
FINISH, FINISHED	FIN
FINISH FLOOR ELEVATION	FFE
FIRE TREATED	F.T.
FLANGE	FLG
FLOOR	FLR
FLOOR DRAIN	FD
FOOTING	FTG
FOUNDATION	FDN
FUTURE	FUT OR (F)
GALVANIZED	GALV
GAUGE	ga, GA
GENERAL	GEN
GIRDER TRUSS	GT
GLUE-LAMINATED BEAM	GLB
GRADE	GR
GRADE BEAM	GB
HANGER	HGR
HEADED	HD
HEADER	HDR
HEIGHT	HT
HIGH POINT	HP
HOLLOW CLAY TILE	HCT
HOOK	HK
HORIZONTAL	HOR
INFORMATION	INFO
INSIDE DIAMETER	ID
INSIDE FACE	I.F.
INTERIOR	INT
INTERMEDIATE MOMENT FRAME	IMF
JOINT	JT
JOIST	JST
JOIST SUBSTITUTE	JS
KIP, KIPS	k OR K
KNEE BRACE	KB
LAMINATED STRAND LUMBER	LSL
LAMINATED VENEER LUMBER	LVL
LIGHT	LT
LIVE LOAD	LL
LOCATION	LOC
LONG	LG
LONG LEG HORIZONTAL	LLH
LONG LEG OUT	LLO
LONG LEG VERTICAL	LLV
LONG SIDE VERTICAL	LSV
LONG SIDE HORIZONTAL OR LONG SLOTTED HOLE(S)	LSH
LOW POINT	LP
MANUFACTURER	MFR
MASONRY	MAS
MAXIMUM	MAX
MECHANICAL	MECH
MEZZANINE	MEZZ
MIDDLE	MID
MIDDLE STRIP	MS
MINIMUM	MIN
MISCELLANEOUS	MISC
NEAR FACE	NF
NEAR SIDE	NS
NEW	(N)
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
ON CENTER	oc
OPENING	OPNG
OPEN WEB TRUSS	OWT
OPPOSITE	OPP
OPPOSITE HAND	OPPHD
ORDINARY CONCENTRICALLY BRACED FRAME	OCBF
ORDINARY MOMENT FRAME	OMF
OUT TO OUT	OO
OUT OF PLANE	OOP
OUTSIDE DIAMETER	OD
OUTSIDE FACE	O.F.
OVERSIZED HOLE(S)	OVH
PARALLEL STRANDED LUMBER	PSL
PIER CAP, PILE CAP	PC
PILASTER	PIL
PLACES	PLCS
PLATE	PL
PLUMBING	PLMB
PLYWOOD	PLYWD
POINT	PT
POST-TENSIONED	P-T
POUND PER SQUARE FOOT	PSF
POUND PER SQUARE INCH	PSI
POWDER ACTUATED FASTENER	PAF
PRECAST	P/C
PRE-ENGINEERED METAL BUILDING	PEMB
PRE-ENGINEERED WOOD TRUSS	PWT
PREFABRICATED	PREFAB
PRESSURE TREATED LUMBER	PTL
QUANTITY	QTY
RADIUS	RAD
REFER, REFERENCE	REF
REINFORCING OR REINFORCEMENT	REINF
REQUIRED	REQD
ROOF TOP UNIT	RTU
SCHEDULE	SCHED
SECTION	SECT
SEISMIC LOAD RESISTING SYSTEM	SLRS
SHEAR WALL	SW
SHEATHING	SHTHG
SHEET	SHT
SHEET METAL	SHTMTL
SHORT LEG OUT	SLO
SHORT SIDE HORIZONTAL OR SHORT SLOTTED HOLE(S)	SSH
SIMILAR	SIM
SLAB ON GROUND	SOG
SLIP CRITICAL	SC
SPACE	SPA
SPECIAL	SP
SPECIAL CONCENTRICALLY BRACED FRAME	SCBF
SPECIAL MOMENT FRAME	SMF
SPECIFICATIONS	SPEC
SQUARE	SQ
STAINLESS STEEL	SS
STANDARD	STD
STEEL	STL
STIFFENER	STIFF
STRUCTURAL	STRUC
STRUCTURAL ENGINEER OF RECORD	SEOR
SYMMETRICAL	SYM
THICK, THICKNESS	THK OR T
THREAD, THREADED	THD
TIE BEAM	TB
TO BE REMOVED	TBR
TOP & BOTTOM	T&B
TOP OF	T/
TOP OF CONCRETE	TC
TOP OF FOOTING	TF
TOP OF MASONRY	TM
TOP OF PIER, PILASTER	TP
TOP OF PIER CAP, PILE CAP	TPC
TOP OF STEEL	TS
TOP OF WALL	TW
TREAD	T OR TR
TYPICAL	TYP
UNLESS NOTED OTHERWISE	UNO
VERTICAL BRACE	VB
VERTICAL, VERTICALLY	VT OR VERT
VERIFY IN FIELD	VIF
WELDED WIRE REINFORCING	WWR
WINDOW	WDW
WITH	w/
WOOD	WD
WORKING POINT	WP
WATERSTOP, WATERSEAL	WS
X-BRACING	X-BR

DIVISION 6 - WOOD

1. ROUGH CARPENTRY
   A. GENERAL
      1. ALL LIGHT FRAMED WOOD CONSTRUCTION SHALL BE FASTENED IN ACCORDANCE WITH ICC 2021 INTERNATIONAL BUILDING CODE TABLE 2304.10.2 FASTENING SCHEDULE.
      2. ALL LUMBER IN DIRECT CONTACT WITH WATER, SOIL, CONCRETE, MASONRY, OR PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE TREATED LUMBER.
      3. ALL WOOD SHALL BE STORED ON SITE TO PREVENT WARPING, CUPPING, BOWING, CROOKING, AND TWISTING. USE ONLY MATERIAL THAT IS STRAIGHT. ALL WOOD SHALL BE HELD OFF THE GROUND WITH SACRIFICIAL DUNNAGE BLOCKS.
      4. WOOD CONNECTORS SHALL BE INSTALLED TO PREVENT WOOD FROM SPLITTING OR OTHERWISE DAMAGING EITHER MEMBER.
      5. ALL WOOD DENOTED AS REQUIRING FIRE-RESISTIVE TREATMENT SHALL BE PRESSURE TREATED ACCORDING TO AWPA STANDARD REQUIREMENTS. [SEE ARCHITECTURAL DRAWINGS FOR AREAS TO RECEIVE FIRE-RESISTANCE TREATED LUMBER]
      6. STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS BEARING AGAINST WOOD.
      7. ALL MEMBER SIZES GIVEN IN THE DRAWINGS ARE NOMINAL DIMENSIONS.
      8. ALL LUMBER IS TO BE GRADE STAMPED AND IS TO CONTAIN GRADING AGENCY, MILL NUMBER OR NAME, GRADE OF LUMBER, SPECIES OR SPECIES GROUPING OR COMBINATION DESIGNATION, AND RULES UNDER WHICH GRADED, WHERE APPLICABLE.
      9. LUMBER SHALL BE PROTECTED FROM THE ELEMENTS UNTIL SUCH TIME IT IS USED IN CONSTRUCTION.
      10. ALL WALL STUDS, JAMB STUDS, AND BEAM SUPPORT STUDS SHALL HAVE ADEQUATE SOLID MEMBERS PLACED BELOW TO CARRY ALL VERTICAL LOADS TO THE FOUNDATION.
   B. MATERIAL
      1. SAWN LUMBER
         a. SAWN LUMBER SHALL BE GRADE STAMPED VISUALLY GRADED WITH MAXIMUM 19% MOISTURE CONTENT AND SHALL MEET THE MINIMUM STRESS REQUIREMENTS PER NDS-2018 "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" INCLUDING SUPPLEMENT.
         b. ALL MEMBERS SHALL MEET STRENGTH REQUIREMENTS IN NDS-2018 "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".
         c. JOISTS, RAFTERS, NAILERS, AND BEARING PLATES SHALL BE SOUTHERN YELLOW PINE (SYP), NO. 2 OR BETTER, UNLESS NOTED OTHERWISE.
            1. WOOD JOISTS SHALL BEAR ON THE FULL WIDTH OF SUPPORTING MEMBERS (STUD WALLS, BEAMS, NAILERS, ETC.) UNLESS NOTED OTHERWISE.
            2. PROVIDE 1X4 LET-IN BRIDGING, OR CODE APPROVED METAL BRIDGING AT MIDSPAN OF ALL WOOD JOISTS. SPACE LINES OF BRIDGING AT [8'-0" O.C.] MAXIMUM.
         d. BEARING AND SHEAR WALL STUDS SHALL BE SPRUCE-PINE-FIR (SPF) NO. 1/NO. 2 OR BETTER UNLESS NOTED OTHERWISE.
         e. BEARING AND SHEAR WALL TOP AND BOTTOM PLATES SHALL MATCH THE SPECIES AND GRADE OF THE WALL STUDS, UNLESS NOTED OTHERWISE.
         f. REFER TO LOAD-BEARING WALL SCHEDULE FOR WALL STUD SPECIES AND GRADE.
         g. BUILT-UP AND SOLID WOOD POSTS SHALL BE SPRUCE-PINE-FIR (SPF) NO. 1/NO. 2 OR BETTER UNLESS NOTED OTHERWISE.
            1. USE 4X4, 4X6 AND 6X6 COLUMNS AS SHOWN ON PLANS. BUILT-UP SECTIONS OF 2X STUDS SHALL NOT BE SUBSTITUTED FOR SOLID POSTS AND VICE-VERSA.
      2. ENGINEERED LUMBER
         a. ENGINEERED LUMBER SHALL MEET THE REQUIREMENTS OF ASTM D5456-19 "STANDARD SPECIFICATION FOR EVALUATION OF STRUCTURAL COMPOSITE LUMBER PRODUCTS."
         b. ERECTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS SET FORTH BY THE MANUFACTURER.
         c. ENGINEERED LUMBER MUST BE PROTECTED FROM MOISTURE DURING CONSTRUCTION.
         d. PROVIDE STRESS VALUES THAT MEET OR EXCEED THE FOLLOWING:
            1. LAMINATED VENEER LUMBER (LVL): LVL 2.0E

a. MODULUS OF ELASTICITY	2,000,000 PSI
b. FLEXURAL STRESS	2,600 PSI
c. COMPRESSION PERPENDICULAR TO GRAIN	750 PSI
d. COMPRESSION PARALLEL TO GRAIN	2,510 PSI
e. HORIZONTAL SHEAR PARALLEL TO GRAIN	285 PSI
f. TENSION STRESS	1,895 PSI

            2. LAMINATED STRAND LUMBER (LSL): LSL 1.55E

a. SHEAR MODULUS OF ELASTICITY	96,875 PSI
b. MODULUS OF ELASTICITY	1,550,000 PSI
c. FLEXURAL STRESS	2,325 PSI
d. COMPRESSION PERPENDICULAR TO GRAIN	900 PSI
e. COMPRESSION PARALLEL TO GRAIN	2,170 PSI
f. HORIZONTAL SHEAR PARALLEL TO GRAIN	310 PSI

            3. PARALLEL STRAND LUMBER (PSL) BEAM: PSL 2.0E

a. SHEAR MODULUS OF ELASTICITY	125,875 PSI
b. MODULUS OF ELASTICITY	2,000,000 PSI
c. FLEXURAL STRESS	2,900 PSI
d. COMPRESSION PERPENDICULAR TO GRAIN	750 PSI
e. COMPRESSION PARALLEL TO GRAIN	2,900 PSI
f. HORIZONTAL SHEAR PARALLEL TO GRAIN	290 PSI

            4. PARALLEL STRAND LUMBER (PSL) COLUMN: PSL 1.8E

a. SHEAR MODULUS OF ELASTICITY	112,500 PSI
b. MODULUS OF ELASTICITY	1,800,000 PSI
c. FLEXURAL STRESS	2,400 PSI
d. COMPRESSION PERPENDICULAR TO GRAIN	545 PSI
e. COMPRESSION PARALLEL TO GRAIN	2,500 PSI
f. HORIZONTAL SHEAR PARALLEL TO GRAIN	190 PSI

      3. GLUE-LAMINATED LUMBER
         a. GLUE-LAMINATED TIMBERS SHALL BE MANUFACTURED AND IDENTIFIED AS REQUIRED IN ANSI A190.1 AND ASTM D3737. ALL BEAMS SHALL BEAR THE APA/EWS OR AITC TRADEMARK INDICATING CONFORMANCE.
         b. ALLOWABLE STRESS REQUIREMENTS ARE AS FOLLOWS:
            1. EWS 24F-V8 COMBINATION (WESTERN SPECIES)

a. MODULUS OF ELASTICITY	1,800,000 PSI
b. FLEXURAL STRESS	2,400 PSI
c. COMPRESSION PERPENDICULAR TO GRAIN	650 PSI
d. HORIZONTAL SHEAR PARALLEL TO GRAIN	265 PSI

            2. EWS 30F-E2 COMBINATION (SOUTHERN YELLOW PINE)

a. MODULUS OF ELASTICITY	2,100,000 PSI
b. FLEXURAL STRESS	3,000 PSI
c. COMPRESSION PERPENDICULAR TO GRAIN	805 PSI
d. HORIZONTAL SHEAR PARALLEL TO GRAIN	300 PSI

         c. ALL EXPOSED GLULAM MEMBERS SHALL BE ARCHITECTURAL APPEARANCE GRADE AND ALL OTHERS SHALL BE INDUSTRIAL APPEARANCE GRADES OF ANSI A190.1.
         d. TEMPERATURE OF GLUE-LAMINATED TIMBER IS NOT TO EXCEED 150 DEGREES F IN SERVICE.
         e. GLUE-LAMINATED MEMBERS EXPOSED TO MOISTURE SHALL HAVE WET-USE ADHESIVES AND BE TREATED IN ACCORDANCE WITH AWPA STANDARD U1 TO THE REQUIREMENT OF USE CATEGORY 3B (UC3B).
   4. CONNECTORS AND FASTENERS
      a. ALL FASTENERS IN CONTACT WITH PRESSURE TREATED OR FIRE-RETARDANT TREATED LUMBER OR USED IN EXTERIOR CONDITION SHALL BE GALVANIZED OR STAINLESS STEEL.
      b. METAL CONNECTORS AND ASSOCIATED FASTENERS SHALL MEET THE FOLLOWING MINIMUM STANDARDS:

1. CONNECTORS	ASTM A653 G90
2. BOLTS	ASTM A307 (GALV IF REQUIRED)
3. ANCHOR RODS	ASTM F1554 GR36 (GALV IF REQUIRED)
4. NAILS AND STAPLES	ASTM F1667 WITH A153 (GALV IF REQUIRED)

      c. FASTENERS UTILIZING DISSIMILAR MATERIALS ARE PROHIBITED.
      d. POWDER DRIVEN FASTENERS SHALL COMPLY WITH ESR-1539. FASTENER INSTALLATION SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND THE MANUFACTURER'S RECOMMENDATIONS. FASTENER HEADS SHALL BE INSTALLED SO NOMINALLY FLUSH WITH THE OUTER PLY OF THE CONNECTION. SHEATHING AND SUPPORT FRAMING DAMAGED BY OVERDRIVEN FASTENERS SHALL BE REMOVED AND REPLACED.
      e. ALUMINUM FASTENERS AND FLASHING SHALL NOT BE IN CONTACT WITH PRESSURE TREATED LUMBER.
      f. SUBJECT TO COMPLIANCE WITH THE PROJECT REQUIREMENTS, WOOD CONNECTORS, JOIST HANGERS, POST CAPS AND BASES, HOLDOWNS, AND RELATED HARDWARE SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING:
         1. SIMPSON STRONG-TIE COMPANY, INC. PLEASANTON, CA.
         2. MITEK USA, INC. ST. LOUIS, MO.
      g. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S LATEST RECOMMENDATIONS FOR INSTALLATION OF CONNECTION HARDWARE.
      h. ALL BEAMS AND JOISTS NOT BEARING ON SUPPORTING MEMBERS SHALL BE FRAMED WITH SIMPSON JOIST HANGERS OR APPROVED EQUAL. USE TYPE LU FOR SINGLE 2X'S, TYPE LUS FOR DOUBLE 2X'S, AND TYPE ITS FOR TJI'S. THE CONNECTORS SHALL BE INSTALLED USING FASTENERS SUPPLIED BY THE MANUFACTURER AS REQUIRED FOR THE HANGER TYPE.
   5. FIRE-RETARDANT TREATED WOOD
      a. ALL LUMBER, PLYWOOD, AND ENGINEERING WOOD PRODUCTS MARKED AS FIRE-RETARDANT TREATED WOOD (FRTW) IS TO HAVE A FLAME SPREAD RATING OF 25 OR LESS (CLASS A) WHEN TESTED IN ACCORDANCE WITH ASTM E8, "STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS".
      b. TREATMENT SHALL BE PYRO-GUARD® MANUFACTURED BY HOOVER TREATED WOOD PRODUCTS, INC., UNLESS EQUIVALENT SUBSTITUTION IS PROVIDED FOR REVIEW BY ARCH AND EOR.
      c. FRTW SHALL BE PRODUCED IN ACCORDANCE WITH UL EVALUATION REPORT ER7002-02 (UL ER7002-01), LATEST VERSION.
      d. FRTW TO MEET THE PERFORMANCE REQUIREMENTS OF AWPA U1, COMMODITY SPECIFICATION H FOR USE CATEGORY UFCA AND AWPA C20/C27 (TYPE A, HT).
      e. FRTW TO BE LISTED ON THE US DEPARTMENT OF DEFENSE (DOD) QUALIFIED PRODUCTS LIST (QPL) AND MEET THE REQUIREMENTS OF MIL-L-19140-E AS A TYPE 1 FIRE-RETARDANT TREATMENT FOR LUMBER AND PLYWOOD.
      f. TREATMENT TO BE INTERIOR "TYPE A" FIRE-RETARDANT WITH INDIVIDUAL SURFACE BURNING CHARACTERISTICS FOR THE SPECIES AND PRODUCTS LISTED UNDER UL CERTIFICATIONS.
      g. STRUCTURAL PERFORMANCE OF FIRE-RETARDANT TREATED WOOD TO BE TESTED IN ACCORDANCE WITH ASTM D5664 FOR LUMBER AND ASTM D5516 FOR PLYWOOD. EVALUATION OF PLYWOOD DATA TO BE IN ACCORDANCE WITH ASTM D6305. EVALUATION OF LUMBER DATA TO BE IN ACCORDANCE WITH ASTM D6841. THE RESULTING DESIGN VALUE AND SPAN RATING ADJUSTMENTS SHALL BE PUBLISHED IN UL ER7002-01, WHICH INCLUDES EVALUATION OF HIGH TEMPERATURE (HT) STRENGTH TESTING FOR ROOF APPLICATIONS.
      h. FIRE-RETARDANT-TREATED WOOD TO KILN DRIED AFTER TREATMENT (KDAT) TO MAXIMUM MOISTURE CONTENT OF 19% FOR LUMBER AND 15% FOR PLYWOOD.
      i. FRTW SHALL NOT CONTAIN VOC'S, UREA FORMALDEHYDE OR FORMALDEHYDE, HALOGENS, SULFATES, CHLORIDES, OR AMMONIUM PHOSPHATE.
      j. FIRE-RETARDANT TREATED PLYWOOD SHALL BE MANUFACTURED UNDER US PRODUCT STANDARDS - PS 1 OR PS 2. PANELS SHALL HAVE A MINIMUM BOND DURABILITY OF EXPOSURE 1.
      k. GRADE MARKED FRTW SHALL BE MARKED IN ACCORDANCE WITH PS 20.
      l. FIRE-RETARDANT-TREATED WOOD USED IN STRUCTURAL APPLICATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS AND LIMITATIONS LISTED IN UL ER7002-01.
      m. FIRE-RETARDANT-TREATED WOOD SHALL BE INSTALLED IN COMPLIANCE WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES AND PRODUCT RECOMMENDATIONS.
      n. FRTW SHALL NOT BE INSTALLED IN AREAS WHERE, IN SERVICE, IT IS EXPOSED TO PRECIPITATION, DIRECT WETTING, OR CONDENSATION.
      o. AS WITH UNTREATED WOOD, AVOID EXPOSURE TO PRECIPITATION DURING SHIPPING, STORAGE OR INSTALLATION. APPLY A WATER RESISTIVE BARRIER OR UNDERLAYMENT OVER DRY SHEATHING AS SOON AS PRACTICAL TO AVOID PRECIPITATION ON THE PANEL. PANELS THAT GET WET SHOULD BE ALLOWED TO DRY BEFORE COVERING OR BE REPLACED.
   C. PREFABRICATED WOOD OPEN-WEB TRUSSES
      1. PROVIDE WOOD TRUSSES CAPABLE OF WITHSTANDING THE DESIGN LOADS WITHIN THE LIMITS AND UNDER THE CONDITIONS INDICATED. TRUSS DESIGN SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND ANSI/TPI 1-2014 NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.
      2. WOOD TRUSSES SHALL BE OF SAWN LUMBER WITH 2X NOMINAL THICKNESS. TRUSSES OR PORTIONS THEREOF THAT ARE IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED LUMBER.
      3. WOOD TRUSSES SHALL BE DESIGNED FOR GRAVITY LOADS AS INDICATED AND ALL APPLICABLE WIND, SEISMIC, AND SNOW LOADS REQUIRED BY BUILDING CODE [AND NOTED ON PLAN]. LOADS SHALL BE COMBINED PER ASCE 7. TRUSS MEMBER DESIGN SHALL ALSO CONSIDER UNBALANCED SNOW LOAD WITH FULL DEAD LOAD, AS WELL AS FULL DEAD AND SNOW LOAD.
      4. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING:
         a. MINIMUM UNIFORM SUPERIMPOSED DEAD LOAD OF [15] PSF AND LIVE LOAD OF [20] PSF, ON THE TOP CHORD HORIZONTAL PROJECTION, UNLESS NOTED OTHERWISE. ALSO SEE ROOF FRAMING PLANS AND MEP DRAWINGS FOR ADDITIONAL LOADS.
         b. MINIMUM UNIFORM SUPERIMPOSED DEAD LOAD OF [10] PSF ON THE BOTTOM CHORD, UNLESS NOTED OTHERWISE.
         c. [MINIMUM UNIFORM WIND UPLIFT OF [5] PSF.]
         d. SNOW OR LIVE LOAD DEFLECTION OF L/240 OR LESS.
         e. TOTAL LOAD DEFLECTION OF L/180 OR LESS.
      5. TRUSS DESIGN AND SHOP DRAWING PREPARATION SHALL BE SUPERVISED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWING SUBMITTALS SHALL BE SIGNED AND SEALED AND INCLUDE ALL REQUIREMENTS SPECIFIED IN IBC SECTION 2303.4.
      6. FABRICATOR SHALL DETERMINE TRUSS DIAGONAL LOCATIONS. TRUSS CONFIGURATIONS SHOWN ON DRAWINGS ARE DIAGRAMMATIC ONLY. WHERE DUCTING OCCURS IN DEPTH OF TRUSSES, COORDINATE WEB MEMBERS WITH ARCHITECT AND MEP CONTRACTORS. BEARING POINTS SHALL COINCIDE WITH INTERSECTIONS OR DIAGONALS AND CHORDS.
      7. TRUSS DESIGN SHALL INCLUDE ALL BLOCKING, BRIDGING, AND FASTENING REQUIRED TO CARRY SPECIFIED LOADS.
      8. THE MANUFACTURER SHALL PROVIDE ALL TRUSSES AND ACCESSORIES AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND AS REQUIRED FOR A COMPLETE PROJECT.
      9. ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE TRUSS SUPPLIER AND THE SIZE AND TYPE OF CONNECTORS SHALL BE INCLUDED IN THE SHOP DRAWING SUBMITTAL. COORDINATE SIZE, SPECIES AND GRADE OF SUPPORTING CHORD AND WEB MEMBERS WITH THE TRUSS HANGER SELECTED. GENERAL CONTRACTOR TO SUPPLY CONNECTION HARDWARE.
      10. REFER TO ARCHITECTURAL DRAWINGS FOR TOP CHORD SLOPE OF ROOF TRUSSES.
      11. ALL TEMPORARY AND PERMANENT BRACING SHALL BE IN ACCORDANCE WITH THE TPI STANDARDS FOR BRACING. THE BRACING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
      12. ROOF RAFTERS SHALL BE CONNECTED TO SUPPORTING MEMBERS USING JOIST HANGERS AND FRAMING ANCHORS.
      13. TRUSS MANUFACTURER SHALL SUPPLY ALL TRUSSES, HANGERS, BRACING, BRIDGING AND BLOCKING REQUIRED TO COMPLETE THE ROOF TRUSS FRAMING.
      14. GIRDER TRUSSES SHOWN ON DRAWINGS SHALL BE DESIGNED TO CARRY CONCENTRATED REACTIONS FROM SUPPORTED TRUSSES AND FLOOR OR ROOF MEMBERS. REACTIONS SHALL OCCUR AT PANEL POINTS OR THE TRUSS MEMBERS SHALL BE DESIGNED FOR SECONDARY BENDING STRESSES. THE TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE THE REQUIRED CONNECTIONS BETWEEN TRUSSES.
      15. PROVIDE ADDITIONAL BUILT-UP WOOD POST LOCATED DIRECTLY UNDER EACH GIRDER TRUSS BEARING. THE POST SHALL CONSIST OF ONE STUD PER PLY OF GIRDER TRUSS AND STACK THE FULL HEIGHT OF THE BUILDING.
      16. WOOD TRUSSES SHALL BE UNLOADED AND STORED IN BUNDLES IN AN UPRIGHT POSITION OUT OF CONTACT WITH THE GROUND UNTIL READY FOR INSTALLATION. TRUSSES MUST BE PROTECTED FROM MOISTURE DURING CONSTRUCTION.
      17. ANY DAMAGE TO THE TRUSSES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND TRUSS SUPPLIER. FIELD REPAIR AND MODIFICATION OF TRUSSES SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE SUPPLIER, EXCEPT FOR NOMINAL TRIMMING TO CORRECT LENGTH WHERE SUCH TRIMMING WILL NOT IMPAIR THE LOAD CARRYING CAPACITY OF THE TRUSS.
   D. ROOF SHEATHING
      1. ROOF SHEATHING SHALL BE PERFORMANCE CATEGORY 19/32" APA-RATED SHEATHING STRUCTURAL PANEL, 40/20 SPAN RATING (EXPOSURE 1) CONFORMING TO THE REQUIREMENTS FOR ITS TYPE IN DOC PS1 OR PS2. EACH PANEL SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE APA-ENGINEERED WOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF THE PRODUCT STANDARD. APPLICATION AND NAILING OF STRUCTURAL PANELS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE APA- ENGINEERED WOOD ASSOCIATION UNLESS REQUIREMENTS NOTED ON THESE CONTRACT DRAWINGS ARE MORE RESTRICTIVE: H-CLIPS SHALL BE USED TO SUPPORT EDGES OF THE ROOF PANELS BETWEEN TRUSSES, UNLESS BLOCKING IS OTHERWISE REQUIRED OR PROVIDED.
      2. PLYWOOD PANELS SHALL CONSIST OF 5 PLIES.
      3. PANELS SHALL BE ORIENTED WITH THE FACE GRAIN PERPENDICULAR TO THE TRUSS SUPPORTS AND PANEL JOINTS SHALL BE STAGGERED.
      4. PROVIDE 2X BLOCKING AT RIDGE OF TRUSSES EACH SIDE OF RIDGE VENT.
      5. MINIMUM ROOF DIAPHRAGM NAILING SHALL BE AS FOLLOWS:
         a. NAILS USED TO FASTEN THE ROOF SHEATHING SHALL BE COMMON WIRE NAILS.
         b. PANEL EDGES TO RIDGE BLOCKING AND EAVE BLOCKING WITH 10D COMMON WIRE NAILS AT 6" ON CENTER.
         c. PANEL SUPPORTED EDGES TO TRUSSES WITH 10D NAILS AT 6" ON CENTER.
         d. OTHER PANEL INTERMEDIATE SUPPORTS TO FRAMING WITH 10D NAILS AT 12" ON CENTER.
         e. PANEL EDGES TO TRUSSES OVER SHEAR WALLS WITH 10D NAILS AT 4" ON CENTER.
      6. SHEATHING PANELS SHALL NOT BE LESS THAN 4'X8'EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE THE MINIMUM PANEL DIMENSIONS SHALL BE 24" UNLESS ALL EDGES OF THE UNDERSIZED PANELS ARE SUPPORTED BY MINIMUM 2X FRAMING MEMBERS OR SUPPLEMENTAL BLOCKING.
   E. FLOOR SHEATHING
      1. FLOOR SHEATHING SHALL BE PERFORMANCE RATING, 23/32" TONGUE AND GROOVE APA-RATED SHEATHING STRUCTURAL PANEL, [48/24] SPAN RATING (EXPOSURE 1)] CONFORMING TO THE REQUIREMENTS FOR ITS TYPE IN DOC PS1. EACH PANEL SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE APA-ENGINEERED WOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF THE PRODUCT STANDARD. APPLICATION AND NAILING OF STRUCTURAL USE PANELS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE APA-ENGINEERED WOOD ASSOCIATION UNLESS REQUIREMENTS NOTED ON THESE CONTRACT DRAWINGS ARE MORE RESTRICTIVE.
      2. PLYWOOD PANELS SHALL CONSIST OF [5] PLIES.
      3. FLOOR PANELS SHALL BE ORIENTED WITH THE FACE GRAIN PERPENDICULAR TO THE FLOOR JOISTS SUPPORTS AND PANEL JOINTS SHALL BE STAGGERED.
      4. FLOOR SHEATHING SHALL BE GLUED TO ALL SUPPORTS USING COMMERCIAL GRADE ADHESIVE FOR USE WITH SHEATHING CONFORMING TO APA SPECIFICATION AFG-01, APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. APPLY CONTINUOUS BEAD OF GLUE ON FLOOR [I-JOISTS] [TRUSSES] AND CONTINUOUS OR STITCH GLUE IN GROOVE OF TONGUE-AND-GROOVE SHEATHING PANELS.
      5. MINIMUM FLOOR DIAPHRAGM NAILING SHALL BE AS FOLLOWING, UNLESS NOTED OTHERWISE:
         a. NAILS USED TO FASTEN THE FLOOR SHEATHING SHALL BE COMMON WIRE NAILS.
         b. ALL PANEL SUPPORTED EDGES TO FLOOR JOISTS AND RIM JOISTS FASTENED WITH 8D AT 6" ON CENTER.
         c. OTHER PANEL INTERMEDIATE PANEL SUPPORTS WITH [8D][10D] AT [12"] ON CENTER.
      6. INSTALL PLYWOOD WITH 1/8 INCH GAP AT ALL SIDES OF SHEETS AS RECOMMENDED BY THE APA.
      7. SHEATHING PANELS SHALL NOT BE LESS THAN 4'X8'EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE THE MINIMUM PANEL DIMENSIONS SHALL BE 24" UNLESS ALL EDGES OF THE UNDERSIZED PANELS ARE SUPPORTED BY MINIMUM 2X FRAMING MEMBERS OR SUPPLEMENTAL BLOCKING.
   F. LOAD BEARING WALLS
      1. SEE TYPICAL DETAIL ON SHEET S105 FOR LOAD BEARING WALL FRAMING.
      2. PROVIDE 2X6 STUDS FRAMING AT 16" ON CENTER, UNLESS NOTED OTHERWISE.
      3. PROVIDE STUD BLOCKING AT MID-HEIGHT OF WALL UNLESS NOTED OTHERWISE.
      4. PROVIDE SILL PLATES AND DOUBLE TOP PLATES MATCHING STUD SIZE, GRADE AND SPECIES UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR

SPECIAL INSPECTION TABLES

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS

GENERAL
The Owner shall engage and employ a qualified special inspection agency or agencies to conduct special inspections of structural work as required by chapter 17 of the 2021 International Building Code and as delineated below. Agencies that are considered qualified and acceptable to act as special inspectors will be those acceptable to the building official of the jurisdiction that grants the building permit and the owner.

SPECIAL INSPECTION REPORT REQUIREMENTS
Special Inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the Building Official, Owner, Architect, Structural Engineer, and Contractor. Reports shall indicate that the structural work inspected was done in conformance to approved Contract Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official, Owner, Architect, and Structural Engineer prior to the completion of that phase of work. A final report of inspections documenting required special inspections of structural work and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the Owner and the Building Official prior to the start of work.

REQUIRED SPECIAL INSPECTIONS
The following types of structural work require special inspections. Refer to individual Specification Sections for specific testing and inspecting requirements. Continuous inspection is the full-time observation of work by a qualified special inspector who is present in the area where the work is being performed. Periodic special inspection is the part-time or intermittent observation of work by a qualified special inspector who is present in the area where the work has been or is being performed and at the completion of the work.

CONCRETE CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of steel reinforcement, including size, quantity and placement.		X	
2. Reinforcing bar welding:			
a. Verify weldability of reinforcing bars other than ASTM A706.		X	
b. Inspect single-pass fillet welds, maximum 5/16"; and		X	
c. Inspect all other welds.	X		
3. Inspection of anchor rods, headed bolts, headed studs, shear stud shear reinforcing and other embedded items prior to and during placement of concrete.	X		
4. Inspection of anchors installed in hardened concrete.			See "Post Installed Anchors" table
5. Verification of use of required design mixture.		X	
6. Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled to fabricate specimens for strength tests.	X		Frequency of test per specifications.
7. Inspection of concrete placement, including conveying and depositing.	X		
8. Inspection of curing procedures and maintenance of curing temperatures.		X	
9. Inspection of prestressed concrete:			
a. Application of prestressing forces.	X		
b. Grouting of bonded prestressing tendons in the seismic force resisting system.	X		
10. Erection of precast concrete members.		X	
11. Verification of concrete strength before removal of shores and forms from beams and slabs.		X	
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.		X	
13. Verification that approved shop drawings are being used on site.		X	

WOOD CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of field gluing operations of elements of wind and seismic force resisting systems.	X		
2. Verification of nailing, bolting, anchoring and other means of attachment within the wind and seismic force resisting systems.		X	
3. Verification of all other connections.		X	
4. Verification of the use of proper materials. Materials shall be identified by the certifying trade labels or grade stamps.		X	
5. Verification of member sizes. Note any warped, cupped, twisted or damaged members.		X	
6. Verification of the use of treated wood members. In addition, verify connectors used in contact with treated members meet the proper finish requirements.		X	
7. Review of pre-engineered trusses. Note that trusses were fabricated per a certified manufacturer, proper storage methods, bracing installed per approved shop drawings, sheathing attachment and connectors.		X	Additional inspections per "Wood Trusses" table
8. Inspection of fabrication process of other prefabricated wood structural elements and assemblies. Verification of the use of proper materials, member sizes and connections.		X	

WOOD TRUSSES

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspect trusses for damage due to shipping or handling.		X	
2. Temporary erection bracing and connections.		X	
3. Truss-to-truss connections.	X		
4. Truss connections to building supports.		X	
5. Confirm approved shop drawings are being used in field.	X		

WOOD SHEAR WALLS

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspect wall sheathing for damage due to shipping or handling.		X	
2. Sheathing and sill plate nailing.	X		
3. Hold down connection installation.	X		
4. Truss blocking installation above shear walls.		X	

SOILS

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X	
2. Verify excavations are extended to proper depth and have reached proper material.		X	
3. Perform classification and testing of compacted fill materials.		X	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X		
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.		X	

POST INSTALLED ANCHORS TO CONCRETE AND MASONRY

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Use of proper anchor system and manufacturer.		X	
2. Review of installer's qualifications including certification by anchor manufacturer.		X	* See Note 1
3. Anchor installation process as noted in general notes.			* See Note 2
4. Verification of supporting material's condition.		X	
5. Proof testing as outlined in general notes.		X	
6. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X		
7. Mechanical anchors and adhesive anchors not defined in Note 6.		X	

* Remark Notes:
1. Inspector shall be familiar with anchor manufacturer's written installation procedure and ESR report.
2. Refer to manufacturer's ESR for type of inspection periodic vs. continuous.

MASONRY CONSTRUCTION LEVEL B QUALITY ASSURANCE

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.		X	
2. Verification of compressive strength of masonry prior to construction and for every 5,000 square feet during construction.		X	
3. Verification of proportions of materials in premixed or preblended mortar and grout as delivered to the site.		X	
4. As masonry construction begins, verify that the following are in compliance:			
a. Proportions of site-prepared mortar and grout.		X	
b. Placement of masonry units and construction of mortar joints.		X	
c. Location of reinforcement and control joints.		X	
5. Prior to grouting, verify that the following are in compliance:			
a. Grout space.	X		
b. Grade, type and size of reinforcement and anchor bolts.		X	
c. Placement of reinforcement.		X	
d. Proportions of site-prepared grout.		X	
e. Construction of mortar joints.		X	
6. Verify during construction:			
a. Size and location of structural elements.		X	
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	X		
c. Welding of reinforcement (if permitted).	X		
d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)		X	
e. Placement of grout.	X		
7. Preparation of any required grout specimens and/or prisms shall be observed.	X		

SEE STORM SHELTER INFORMATION SHEET FOR ADDITIONAL STORM SHELTER REQUIREMENTS

WELDED STEEL CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	PERFORM FOR EACH STEEL ELEMENT	OBSERVE ON A RANDOM BASIS	
1. Inspection tasks prior to welding:			
a. Welding procedure specifications (WPS) available.	X		
b. Manufacturer certifications for welding consumables available.	X		
c. Material identification (type/grade).		X	
d. Welder identification system.		X	
e. 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)		X	
f. Configuration and finish of access holes.		X	
g. Fit-up of fillet welds: • Dimensions (alignment, gaps at root) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location)		X	
h. Check welding equipment.		X	
2. Inspection tasks during welding:			
a. Use of qualified welders.		X	
b. Control and handling of welding consumables: • Packaging • Exposure control		X	
c. No welding over cracked tack welds.		X	
d. Environmental conditions: • Wind speed within limits • Precipitation and temperature		X	
e. WPS followed: • Settings on welding equipment • Travel speed • Selected welding materials • Shielding gas type/flow rate • Preheat applied • Interpass temperature maintained (min/max) • Proper position (F, V, H, OH)		X	
f. Welding techniques: • Interpass and final cleaning • Each pass within profile limitations • Each pass meets quality requirements		X	
3. Inspection tasks after welding:			
a. Welds cleaned.		X	
b. Size, length and location of welds.	X		
c. Welds meet visual acceptance criteria: • Crack prohibition • Weld/base-metal fusion • Crater cross section • Weld profiles • Weld size • Undercut • Porosity	X		
d. Arc strikes.	X		
e. Visually inspect the web k-area for cracks within 3" of doubler plates, continuity plates and stiffeners welded in the k-area.	X		
f. Placement of reinforcing or contouring fillet welds (if required).	X		
g. Backing removed and weld tabs removed (if required).	X		
h. Repair activities.	X		
i. Document acceptance or rejection of welded joint or member.	X		

COMPOSITE STEEL CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	PERFORM FOR EACH STEEL ELEMENT	OBSERVE ON A RANDOM BASIS	
1. Inspection tasks of steel elements of composite construction prior to concrete placement:			
a. Placement and installation of steel deck.	X		
b. Placement and installation of steel headed stud anchors.	X		
c. Document acceptance or rejection of steel elements.	X		
d. Confirm approved shop drawings are being used in field.	X		

STEEL DECKING CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	PERFORM FOR EACH STEEL ELEMENT	OBSERVE ON A RANDOM BASIS	
1. Inspection or execution tasks prior to deck placement:			
a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness.		X	
b. Document acceptance or rejection of deck & deck accessories.		X	
c. Confirm approved shop drawings are being used in field.	X		
2. Inspection or execution tasks after deck placement:			
a. Verify compliance of deck and all deck accessories installation with construction documents.		X	
b. Verify deck materials are represented by the mill certifications that comply with the construction documents.		X	
c. Document acceptance or rejection of installation of deck and deck accessories.		X	
3. Inspection or execution tasks prior to welding:			
a. Welding procedure specifications (WPS) available.		X	
b. Manufacturer certifications for welding consumables available.		X	
c. Material identification (type/grade).		X	
d. Check welding equipment.		X	
4. Inspection or execution tasks during welding:			
a. Use of qualified welders.		X	
b. Control and handling of welding consumables.		X	
c. Environmental conditions (wind speed, moisture, temperature)		X	
d. WPS followed.		X	
5. Inspection or execution tasks after welding:			
a. Verify size and location of welds, including support, sidelap, and perimeter welds.		X	
b. Welds meet visual acceptance criteria.		X	
c. Verify repair activities.		X	
d. Document acceptance or rejection of welds.		X	
6. Inspection or execution tasks prior to mechanical fastening:			
a. Manufacturer installation instructions available for mechanical fasteners.		X	
b. Proper tools available for fastener installation.		X	
c. Proper storage for mechanical fasteners.		X	
7. Inspection or execution tasks during mechanical fastening:			
a. Fasteners are positioned as required.		X	
b. Fasteners are installed in accordance with manufacturer's instructions.		X	
8. Inspection or execution tasks after mechanical fastening:			
a. Check spacing, type, and installation of support fasteners.		X	
b. Check spacing, type, and installation of sidelap fasteners.		X	
c. Check spacing, type, and installation of perimeter fasteners.		X	
d. Verify repair activities.		X	
e. Document acceptance or rejection of mechanical fasteners.		X	

BOLTED STEEL CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	PERFORM FOR EACH STEEL ELEMENT	OBSERVE ON A RANDOM BASIS	
1. Inspection tasks prior to bolting:			
a. Manufacturer's certifications available for fastener material.	X		
b. Fasteners marked in accordance with ASTM requirements.		X	
c. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane).		X	
d. Proper bolting procedure selected for joint detail.		X	
e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements.		X	
f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used.		X	
g. Proper storage provided for bolts, nuts, washers and other fastener components.		X	
2. Inspection tasks during bolting:			
a. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required.		X	
b. Joint brought to the snug-tight condition prior to the pretensioning operation.		X	
c. Fastener component not turned by the wrench prevented from rotating.		X	
d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges.		X	
3. Inspection tasks after bolting:			
a. Document acceptance or rejection of bolted connections.	X		

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REGISTERED PROFESSIONAL ENGINEER

Jason N Richards 10/16/26

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

SPECIAL INSPECTIONS

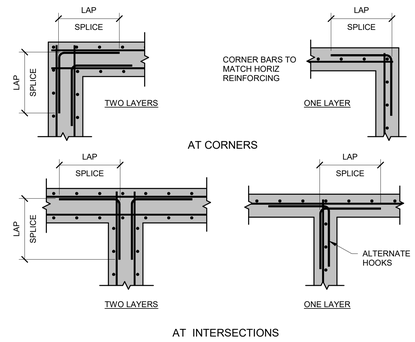
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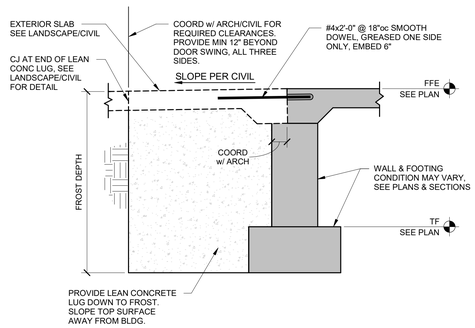
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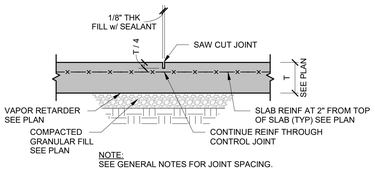
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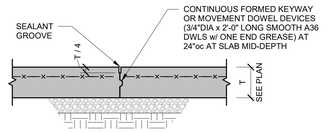
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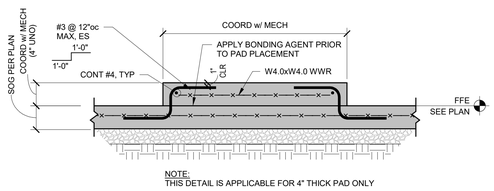
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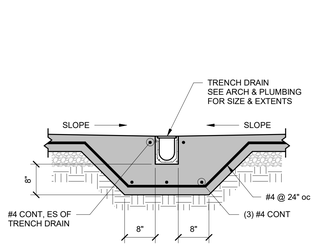
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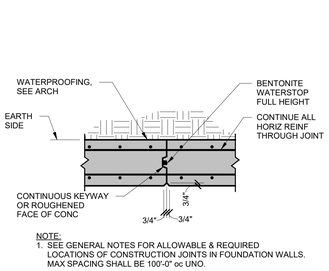
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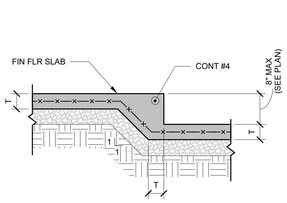
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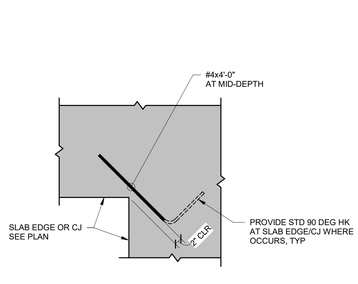
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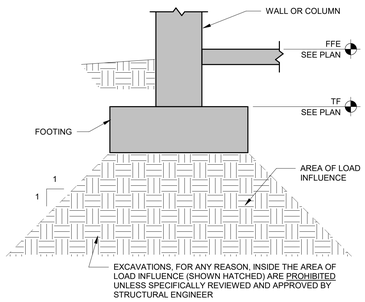
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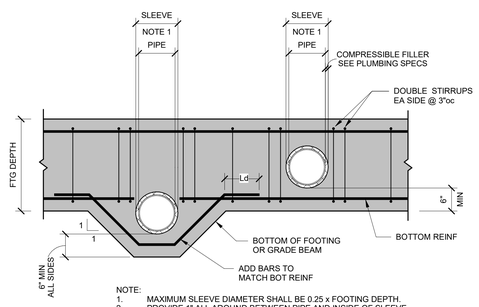
6 S104 TYPICAL DEPRESSION OR STEP IN SLAB ON GROUND DETAIL
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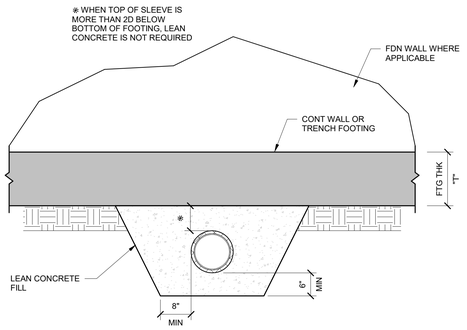
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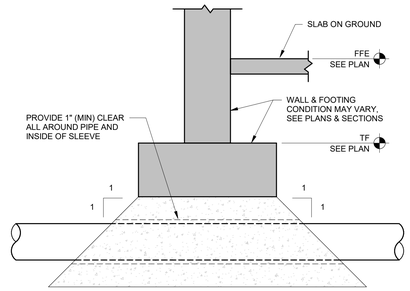
12 S104 TYPICAL PROHIBITED EXCAVATIONS AT FOUNDATION
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11 S104 TYPICAL PIPE SLEEVE THRU FOUNDATION DETAIL
NTS



10 S104 TYPICAL DETAIL WHERE PLUMBING PASSES BELOW CONTINUOUS WALL OR TRENCH FOOTING
NTS



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	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

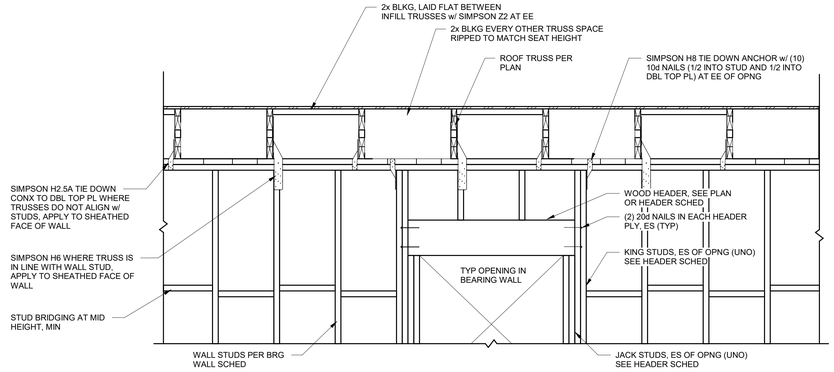
TYPICAL DETAILS

Project No.
2500248

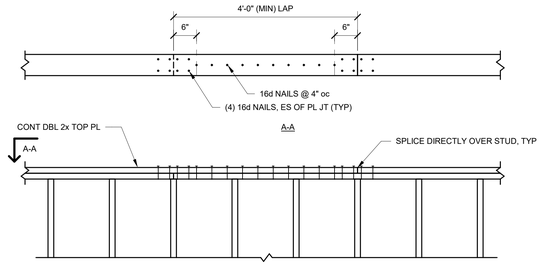
Sheet No.
S104

Date
10/16/2026

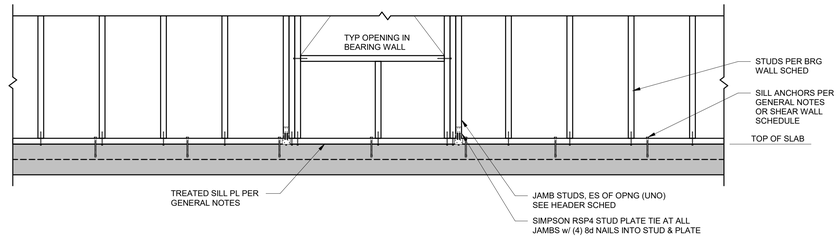
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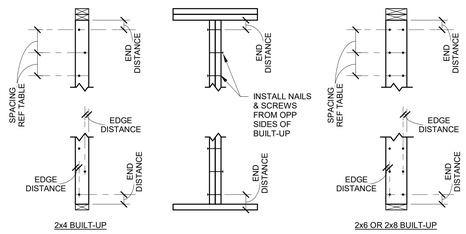
1 S105 TYPICAL BEARING WALL ELEVATION AT ROOF (MULTI-STORY / TRUSSES) FOR TRUSS SEATS LESS THAN 11 1/4"
3/4" = 1'-0"



3 S105 TYPICAL TOP PLATE SPLICE DETAIL
3/4" = 1'-0"



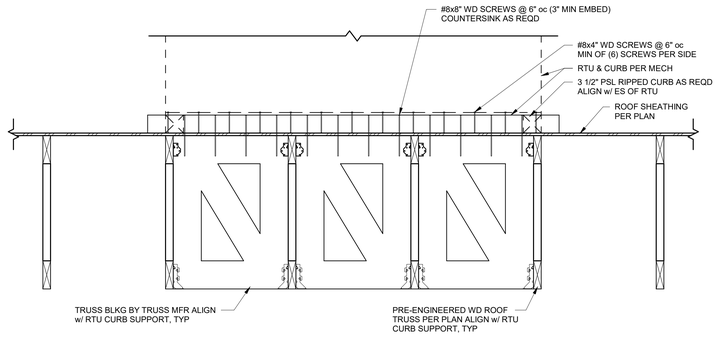
2 S105 TYPICAL BEARING WALL ELEVATION AT BASE
3/4" = 1'-0"



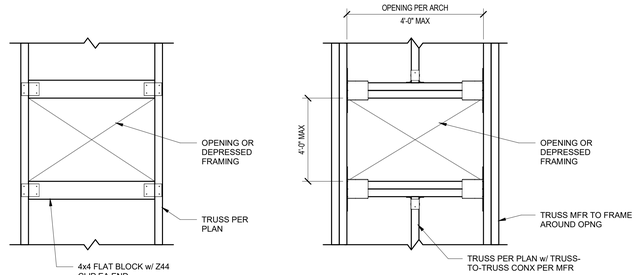
BUILT-UP MEMBER	FASTENER SIZE	MAX FASTENER SPACING	FASTENER END DISTANCE	FASTENER EDGE DISTANCE	ROWS OF FASTENERS
(2) 2x4	10d COMMON NAIL	6"	2 1/2"	1"	1 - STAGGER
(2) 2x4	SIMPSON SDW 0.220" DIA x 3" SCREWS	8"	3 1/2"	1 1/2"	1 - STAGGER
(3) 2x4	30d COMMON NAIL	8"	3 1/2"	1 1/2"	1 - STAGGER
(3) 2x4	SIMPSON SDW 0.220" DIA x 4 3/8" SCREWS	8"	3 1/2"	1 1/2"	1 - STAGGER
(4) 2x4	SIMPSON SDW 0.220" DIA x 6" SCREWS	8"	4"	1 1/2"	1 - STAGGER
(2) 2x6 OR (2) 2x8	10d COMMON NAIL	8"	2 1/2"	1"	2
(2) 2x6 OR (2) 2x8	SIMPSON SDW 0.220" DIA x 3" SCREWS	8"	3 1/2"	1 1/2"	2
(3) 2x6 OR (3) 2x8	30d COMMON NAIL	8"	3 1/2"	1 1/2"	2
(3) 2x6 OR (3) 2x8	SIMPSON SDW 0.220" DIA x 4 3/8" SCREWS	8"	3 1/2"	1 1/2"	2
(4) 2x6 OR (4) 2x8	SIMPSON SDW 0.220" DIA x 6" SCREWS	8"	3 1/2"	1 1/2"	2

NOTES:
1. WALL SHEATHING OR GYP BOARD FASTENERS SHALL BE STAGGERED TO EACH STUD IN BUILT-UP MEMBER.
2. ADJACENT NAILS AND SCREWS SHALL BE INSTALLED FROM OPPOSITE FACES OF THE BUILT-UP MEMBER.
3. BOLTS SHALL HAVE STD CUT WASHERS BTWN WOOD AND BOLT HEAD ND NUT HEAD.
4. FASTENERS SHALL BE SUFFICIENTLY DRIVEN (OR TIGHTENED) TO ENSURE ALL WOOD LAMINATIONS ARE IN FULL CONTACT.

9 S105 TYPICAL BUILT-UP WOOD POST SCHEDULE AND DETAILS
3/4" = 1'-0"



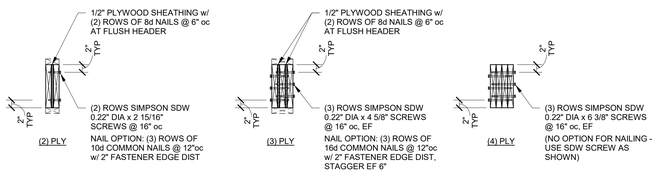
5 S105 TYPICAL DETAIL AT RTU BLOCKING TO TRUSS ROOF FRAMING
1" = 1'-0"



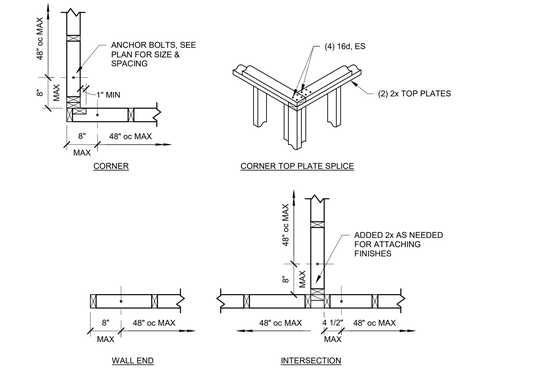
4 S105 TYPICAL TRUSS FRAMED OPENING DETAIL
1" = 1'-0"



7 S105 TYPICAL BUILT-UP MULTI-PLY LVL CONNECTIONS
3/4" = 1'-0"



8 S105 TYPICAL BUILT-UP MULTI-PLY SAWN LUMBER BEAM CONNECTIONS
3/4" = 1'-0"



6 S105 TYPICAL STUD WALL CORNERS, INTERSECTIONS AND ENDS
3/4" = 1'-0"

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
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TYPICAL DETAILS

Project No. 2500248
Sheet No. S105
Date 10/16/2026

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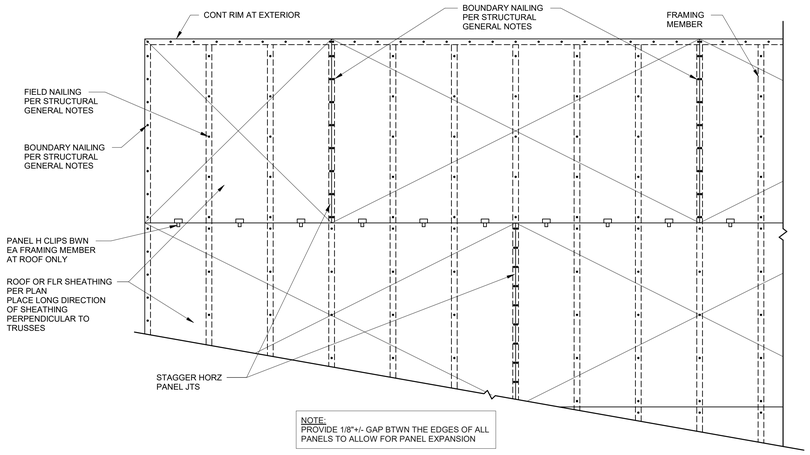
NAIL FASTENING SCHEDULE

LABEL	DESCRIPTION OF BUILDING ELEMENTS	COMMON NAIL	GUN NAIL	SPACING AND LOCATION
	ROOF			
1a	BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	(3) 8d	(3) 3"x0.131"	EACH END, TOE NAIL
1b	BLOCKING BETWEEN RAFTERS OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	(2) 8d	(2) 3"x0.131"	EACH END, TOE NAIL
1c	FLAT BLOCKING TO TRUSS OR WEB FILLER	16d @ 6" oc	3"x0.131" @ 6" oc	FACE NAIL
2	CEILING JOIST TO TOP PLATE	(3) 8d	(3) 3"x0.131"	EACH JOIST, TOE NAIL
3	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST)	(3) 16d	(4) 3"x0.131"	FACE NAIL
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	SEE IBC TABLE 2308.7.3.1	SEE IBC TABLE 2308.7.3.1	FACE NAIL
5	COLLAR TIE TO RAFTER	(3) 10d	(4) 3"x0.131"	FACE NAIL
6	RAFTER OR ROOF TRUSS TO TOP PLATE	(3) 10d	(4) 3"x0.131"	TOE NAIL
7	ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM	(3) 10d	(4) 3"x0.131"	TOE NAIL
	WALL			
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	16d @ 24" oc	3"x0.131" @ 16" oc	FACE NAIL
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d @ 16" oc	3"x0.131" @ 12" oc	FACE NAIL
10	BUILT-UP HEADER (2" TO 2" HEADER)	16d @ 16" oc		EACH EGE, FACE NAIL
11	CONTINUOUS HEADER TO STUD	(4) 8d		TOE NAIL
12	TOP PLATE TO TOP PLATE	16d @ 16" oc	3"x0.131" @ 12" oc	FACE NAIL
13	TOP PLATE TO TOP PLATE, AT END JOINTS	(8) 16d	(12) 3"x0.131"	NOTE 1
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d @ 16" oc	3"x0.131" @ 12" oc	FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	(2) 16d @ 16" oc	(4) 3"x0.131" @ 16" oc	FACE NAIL
16	STUD TO TOP OR BOTTOM PLATE	(4) 8d	(4) 3"x0.131"	TOE NAIL
		(2) 16d	(3) 3"x0.131"	END NAIL
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	(2) 16d	(3) 3"x0.131"	FACE NAIL
18	1" BRACE TO EACH STUD AND PLATE	(2) 8d	(2) 3"x0.131"	FACE NAIL
19	1" x 6" SHEATHING TO EACH BEARING	(2) 8d		FACE NAIL
20	1" x 8" AND WIDER SHEATHING TO EACH BEARING	(3) 8d		FACE NAIL
	FLOOR			
21	JOIST TO SILL, TOP PLATE, OR GIRDER	(3) 8d	(3) 3"x0.131"	TOE NAIL
22	RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d @ 6" oc	3"x0.131" @ 6" oc	TOE NAIL
23	1" x 6" SUBFLOOR OR LESS TO EACH JOIST	(2) 8d		FACE NAIL
24	2" SUBFLOOR TO JOIST OR GIRDER	(2) 16d		FACE NAIL
25	2" PLANKS (PLANK AND BEAM - FLOOR AND FLOOR)	(2) 16d		EACH BEARING, FACE NAIL
26	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d @ 32" oc	3"x0.131" @ 24" oc	NOTE 2
		(2) 20d	(3) 3"x0.131"	ENDS AND AT EACH SPLICE, FACE NAIL
27	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	(3) 16d	(4) 3"x0.131"	EACH JOIST OR RAFTER, FACE NAIL
28	JOIST TO BAND JOIST OR RIM JOIST	(3) 16d	(4) 3"x0.131"	END NAIL
29	BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	(2) 8d	(2) 3"x0.131"	EACH END, TOE NAIL

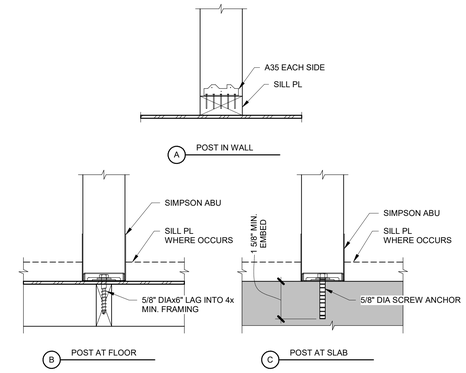
NOTES:
1. WHERE NOTED ABOVE - EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT).
2. WHERE NOTED ABOVE - FACE NAIL AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES.
3. NAILING SPECIFIED ELSEWHERE ON PLANS TAKES PRECEDENCE OVER ABOVE SCHEDULE.
4. NAILING AT CONNECTION HARDWARE TO BE PER MANUFACTURER'S RECOMMENDATIONS.
5. REFER TO 2021 INTERNATIONAL BUILDING CODE TABLE 2305.10.2 FOR CONNECTIONS NOT SHOWN.
6. NAIL CAPACITIES BASED ON A MINIMUM 10xNAIL DIA. PENETRATION, U.N.O.
7.

TYPE	LENGTH	DIAMETER
6d OR 6 COMMON	2"	0.113"
8d OR 8 COMMON	2 1/2"	0.131"
10d OR 10 COMMON	3"	0.148"
12d OR 12 COMMON	3 1/4"	0.148"
16d OR 16 COMMON	3 1/2"	0.162"
20d OR 20 COMMON	4"	0.203"
30d OR 30 COMMON	4 1/2"	0.22"

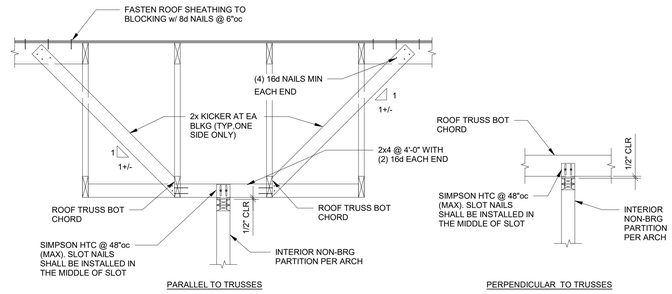
3 / S106 NAIL FASTENING SCHEDULE
3/4" = 1'-0"



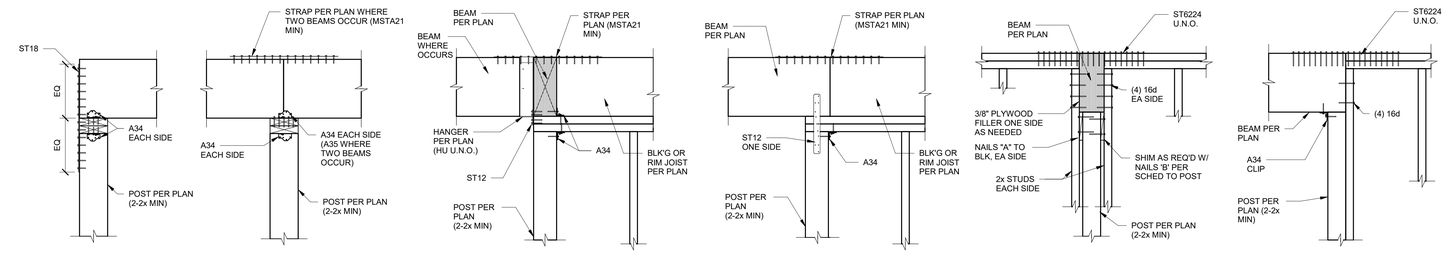
2 / S106 TYPICAL FLOOR OR ROOF DIAPHRAGM NAILING PLAN (UNBLOCKED)
3/4" = 1'-0"



1 / S106 TYPICAL WOOD POST BASE DETAILS
3/4" = 1'-0"



4 / S106 TYPICAL NON-BEARING PARTITION TOP PLATE ANCHORAGE AT ROOF TRUSSES
NTS



A PERP TO EXTERIOR WALL
B PERP TO INTERIOR WALL
C PERP AT WALL END
D PARALLEL AT END WALL
E1 PERP TO WALL FLUSH TO TOP PLATE
E2 PARALLEL AT WALL END FLUSH TO TOP PLATE

5 / S106 BEAM TO WALL OR POST CONNECTION
1" = 1'-0"

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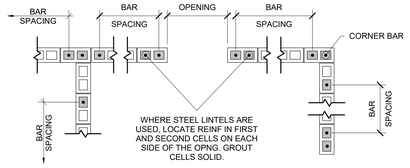
TYPICAL DETAILS

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2500248

Sheet No.
S106

Date
10/16/2026

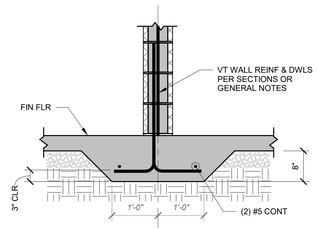
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AT INTERSECTION AT CORNER END

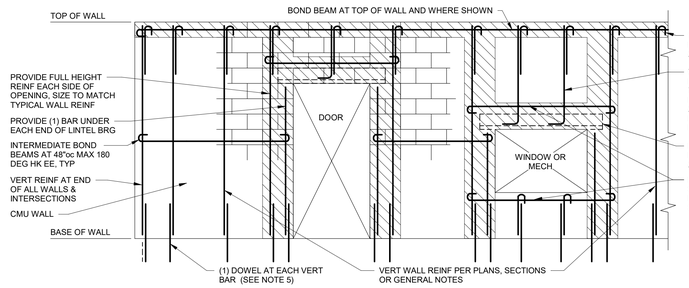
NOTE: SEE PLAN AND DETAILS FOR REINFORCEMENT

3 / S107 TYPICAL CMU WALL REINFORCEMENT PLAN
NTS



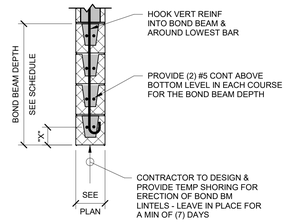
NOTE: SEE ARCH DWGS FOR LOCATION OF NON-BEARING CMU PARTITIONS

2 / S107 TYPICAL THICKENED SLAB AT NON-LOAD BEARING CMU INTERIOR PARTITION
NTS



1. LOCATE REINFORCING AS SHOWN ON TYPICAL CMU WALL REINFORCING DETAIL.
2. FOR HORIZONTAL JOINT REINF AND SPLICES FOR VERT REINF, SEE GENERAL NOTES.
3. SEE ARCH DRAWINGS FOR SIZE AND LOCATION OF NONSTRUCTURAL CMU WALLS NOT SHOWN ON STRUCTURAL DRAWINGS.
4. GROUT CELLS SOLID FULL HEIGHT AT ALL VERTICAL REINFORCING AND AS NOTED IN WALL REINFORCING SCHEDULES.
5. HOOK DOWELS INTO FOUNDATION IF AVAILABLE EMBEDMENT LENGTH IS LESS THAN STRAIGHT BAR DEVELOPMENT LENGTH. CONTRACTOR OPTION: EMBED DOWELS IN EPOXY ADHESIVE PER GENERAL NOTES.
6. SHADED AREAS INDICATE LOCATIONS WHERE PENETRATIONS OF ANY KIND ARE PROHIBITED WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.
7. ALL HORIZONTAL REINFORCEMENT TERMINATE IN 180 DEGREE HOOKS.

1 / S107 TYPICAL CMU WALL REINFORCING ELEVATION - SPECIAL REINF CMU
NTS

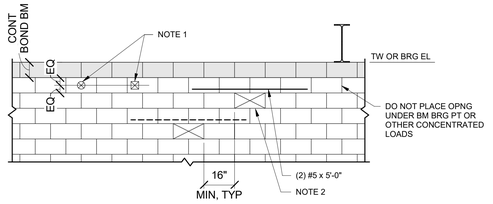


TYPE C

MARK	BEAM SIZE / BOND BEAM DEPTH	CONT PL THK	VERT STIFF PL	TYPE	COVER	BOND BM BOT REINF	COMMENTS
L-1	8" DEEP BOND BEAM	NONE	NONE	C	3"	(2) #5	SEE NOTES 1 & 2
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

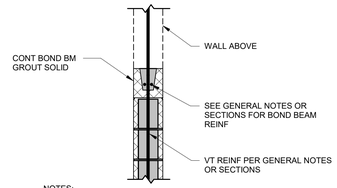
NOTES:
1. EXTEND BOND BEAM REINF 30" PAST OPENING. REINFORCEMENT THAT CANNOT ACHIEVE 30" PAST OPENING SHALL TERMINATE IN 180 DEG HOOK AND EXTEND AT LEAST 18" PAST OPENING. NOTIFY ENGINEER IF THIS CANT BE ACHIEVED.
2. DO NOT INSTALL CONTROL JOINT IN CMU WITHIN BOND BEAM REINF.
3. UNLESS LINTEL BEAM CONNECTS TO A COLUMN, PROVIDE 8" BEARING AT EACH END OF LINTEL, UNO.
4. (E) JAMBS SHALL BE REINFORCED AND GROUTED SOLID.

6 / S107 TYPICAL CMU LINTEL SCHEDULE
NTS



NOTES:
1. ROUND OR SQUARE HOLES NO GREATER THAN 8" MAY BE PLACED ANYWHERE IN UNREINFORCED CELLS AT MID-HEIGHT OF BLOCK. THESE OPENINGS SHALL NOT OCCUR THRU ENDS OF BLOCK AT HEAD JOINT NOR SHALL THEY INTERRUPT ANY VERT OR HORIZ WALL REBAR.
2. ONE FULL BLOCK MAY BE OMITTED FOR AN OPENING IF REINFORCED ABOVE AS SHOWN. ANY VERT OR HORIZ REBAR INTERRUPTED SHALL BE PLACED IN ADJACENT CELLS.
3. REFER TO MEP DWGS FOR SIZE & LOCATION OF ALL MEP WALL PENETRATIONS.
4. THIS DETAIL ONLY APPLIES TO NEW WALL CONSTRUCTION WHERE OPENING IS BUILT w/ WALL.

5 / S107 TYPICAL DETAIL AT SMALL MEP PENETRATIONS THROUGH CMU WALL
NTS



NOTES:
1. BOND BEAMS TO BE LOCATED AT TOPS OF WALLS & LOCATIONS AS INDICATED IN SECTIONS & DETAILS
2. PROVIDE CORNER BARS AT CORNERS AND INTERSECTIONS OF WALLS. CORNER BARS SHALL ACHIEVE LAP SPLICES NOTED IN GENERAL NOTES.
3. EXTEND BOND BEAM AROUND CORNERS WHERE REQUIRED TO ACCOMMODATE CORNER BARS.

4 / S107 TYPICAL CMU BOND BEAM DETAIL
NTS

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SPECIAL INSPECTIONS AT STORM SHELTERS

MASONRY CONSTRUCTION LEVEL C QUALITY ASSURANCE

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.		X	
2. Verification of compressive strength of masonry prior to construction and for every 5,000 square feet during construction.		X	
3. Verification of proportions of materials in premixed or preblended mortar and grout as delivered to the site.		X	
4. As masonry construction begins, verify that the following are in compliance:			
a. Proportions of site-prepared mortar and grout.		X	
b. Placement of masonry units and construction of mortar joints.		X	
c. Location of reinforcement and control joints.	X		
5. Prior to grouting, verify that the following are in compliance:			
a. Grout space.	X		
b. Grade, type and size of reinforcement and anchor bolts.		X	
c. Placement of reinforcement.	X		
d. Proportions of site-prepared grout.		X	
e. Construction of mortar joints.		X	
6. Verify during construction:			
a. Size and location of structural elements.		X	
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	X		
c. Welding of reinforcement (if permitted).	X		
d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)		X	
e. Placement of grout.	X		
7. Preparation of any required grout specimens and/or prisms shall be observed.	X		

CONCRETE CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of steel reinforcement, including size, quantity and placement.	X		
2. Reinforcing bar welding:			
a. Verify weldability of reinforcing bars other than ASTM A706.	X		
b. Inspect single-pass fillet welds, maximum 5/16"; and	X		
c. Inspect all other welds.	X		
3. Inspection of anchor rods, headed bolts, headed studs, shear stud shear reinforcing and other embedded items prior to and during placement of concrete.	X		
4. Inspection of anchors installed in hardened concrete.			See "Post Installed Anchors" table
5. Verification of use of required design mixture.		X	
6. Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled to fabricate specimens for strength tests.	X		Frequency of test per specifications.
7. Inspection of concrete placement, including conveying and depositing.	X		
8. Inspection of curing procedures and maintenance of curing temperatures.		X	
9. Inspection of prestressed concrete:			
a. Application of prestressing forces.	X		
b. Grouting of bonded prestressing tendons in the seismic force resisting system.	X		
10. Erection of precast concrete members.		X	
11. Verification of concrete strength before removal of shores and forms from beams and slabs.		X	
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.		X	
13. Verification that approved shop drawings are being used on site.		X	

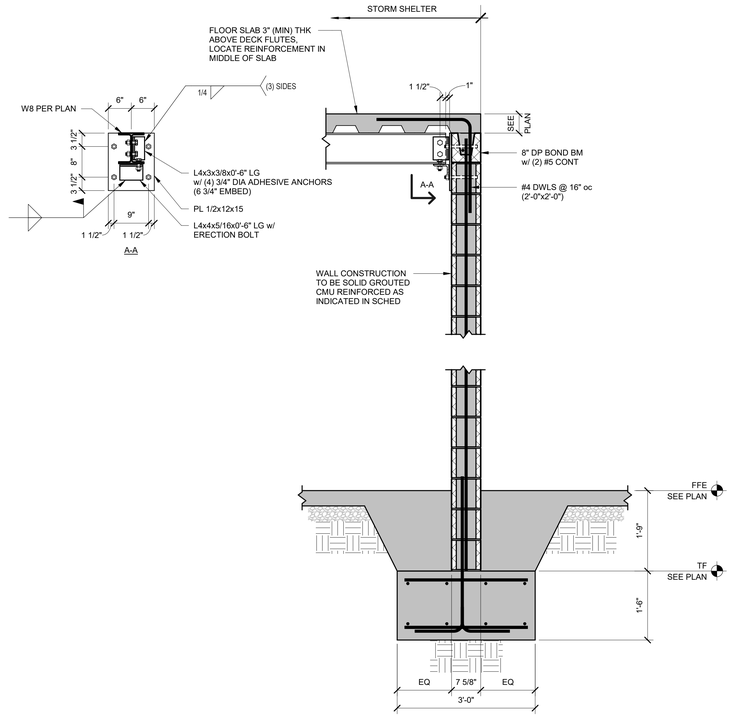
POST INSTALLED ANCHORS TO CONCRETE AND MASONRY

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Use of proper anchor system and manufacturer.	X		
2. Review of installer's qualifications including certification by anchor manufacturer.	X		* See Note 1
3. Anchor installation process as noted in general notes.			* See Note 2
4. Verification of supporting material's condition.	X		
5. Proof testing as outlined in general notes.	X		
6. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X		
7. Mechanical anchors and adhesive anchors not defined in Note 6.	X		

* Remark Notes:
1. Inspector shall be familiar with anchor manufacturer's written installation procedure and ESR report.
2. Refer to manufacturer's ESR for type of inspection periodic vs. continuous.

WIND-RESISTING COMPONENTS

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Roof covering, roof deck and roof framing connections.		X	
2. Exterior wall covering and wall connections to roof and floor diaphragms and framing.		X	



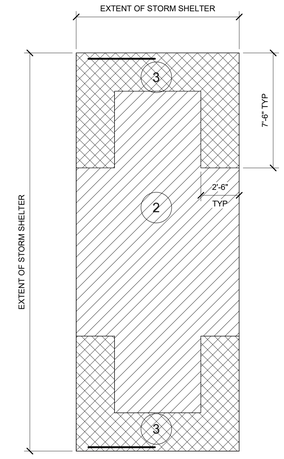
NOTE: FALLING DEBRIS HAZARD INCLUDES DEBRIS IMPACT FACTOR OF 2.0.

2 S108 DEBRIS LOAD ON STORM SHELTER MASONRY WALL SECTION
3/4" = 1'-0"

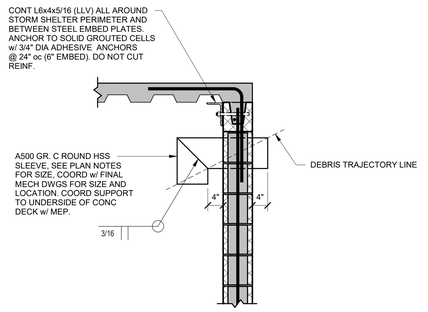
STORM SHELTER WIND LOAD SCHEDULE

MARK	PRESSURE (PSF)	
1	-306	116
2	-387	116
3	-509	116

NOTES:
1. + INDICATES FORCE ACTING TOWARD STRUCTURE.
2. - INDICATES FORCE ACTING AWAY FROM STRUCTURE.
3. ALL LOADS ARE ULTIMATE LEVEL, COMPONENTS AND CLADDING WIND LOADS BASED ON AN EFFECTIVE TRIBUTARY AREA OF 10 SF.



1 S108 STORM SHELTER FRAMING FRAMING PLAN
1/4" = 1'-0"



3 S108 TYPICAL HARDENED DUCT SLEEVE DETAIL AT MASONRY WALL
NTS

GENERAL STORM SHELTER NOTES:

1. STORM SHELTER DESIGNED AS A COMMUNITY TORNADO SHELTER.
2. STORM SHELTER DESIGNED TO THE PROVISIONS OF ICC/NSSA STANDARD FOR DESIGN AND CONSTRUCTION OF STORM SHELTERS ICC 500 - 2020.
3. SHELTER DESIGN WIND SPEED..... 250 MPH
4. WIND EXPOSURE CATEGORY..... C
5. INTERNAL PRESSURE COEFFICIENT..... +/- 0.55
6. TOPOGRAPHIC FACTOR..... Kzt = 1.0
7. DIRECTIONAL FACTOR..... Kd = 1.0
8. MAIN WIND FORCE RESISTING SYSTEM:
   a) REINFORCED MASONRY WALLS
9. DEBRIS IMPACT CRITERIA:
   a) MISSILE SIZE..... 15 LB 2x4
   b) HORIZONTAL MISSILE SPEED.... 67 MPH
   c) VERTICAL MISSILE SPEED..... 100 MPH
10. ALL DOOR, WINDOW, AND OTHER HARDWARE CONNECTIONS SHALL BE DESIGNED BY AND PROVIDED BY THE CONTRACTOR TO MEET ICC-500 REQUIREMENTS
11. IN ADDITION TO THOSE ITEMS LISTED ON SHEETS S101 & S102, CONTINUOUS SPECIAL INSPECTIONS SHALL OCCUR AT ALL ELEMENTS OF THE STORM SHELTER. INCLUDING BUT NOT LIMITED TO:
    a) ALL CONNECTIONS OF STRUCTURAL MEMBERS
    b) ALL DOOR, WINDOW, AND OTHER HARDWARE CONNECTIONS
    c) ALL GROUTING
    d) ALL PLACEMENT OF REINFORCING STEEL IN CMU AND CONCRETE.
    e) ALL WELDING
12. SPECIAL INSPECTOR SHALL PROVIDE WRITTEN REPORTS DETAILING PLACEMENT OF EACH ITEM.
13. ENGINEER OF RECORD SHALL PERFORM (2) FIELD OBSERVATION VISITS TO OBSERVE ANCHORAGE FROM FOUNDATIONS TO MASONRY WALLS AND TOP OF WALL CONNECTIONS TO SHELTER LID SLAB. CONTRACTOR TO NOTIFY EOR OF APPROPRIATE TIME OF VISIT SUCH THAT CONNECTIONS ARE VISIBLE.
14. STORM SHELTER LID DESIGN LOADS
    A. DEAD = 75 PSF
    B. LIVE = 20 PSF (UNINHABITABLE ATTIC STORAGE)
    C. ROOF LIVE = 100 PSF (PER ICC 500)
    D. DEBRIS IMPACT LOAD
       UPPER ROOF = 2 * 20 PSF = 40 PSF
    E. ROOF WIND = PER PLAN
    F. WALL WIND: ZONE 4 = -209.2 PSF / +196.9 PSF
    G. WAL WIND: ZONE 5 = -245.8 PSF / +196.9 PSF

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Revision	Date
	PERMIT DOCUMENTS	04/10/2026
	PERMIT DOCUMENTS - REVISED	08/22/2026
	BIDDING DOCUMENTS	10/16/2026

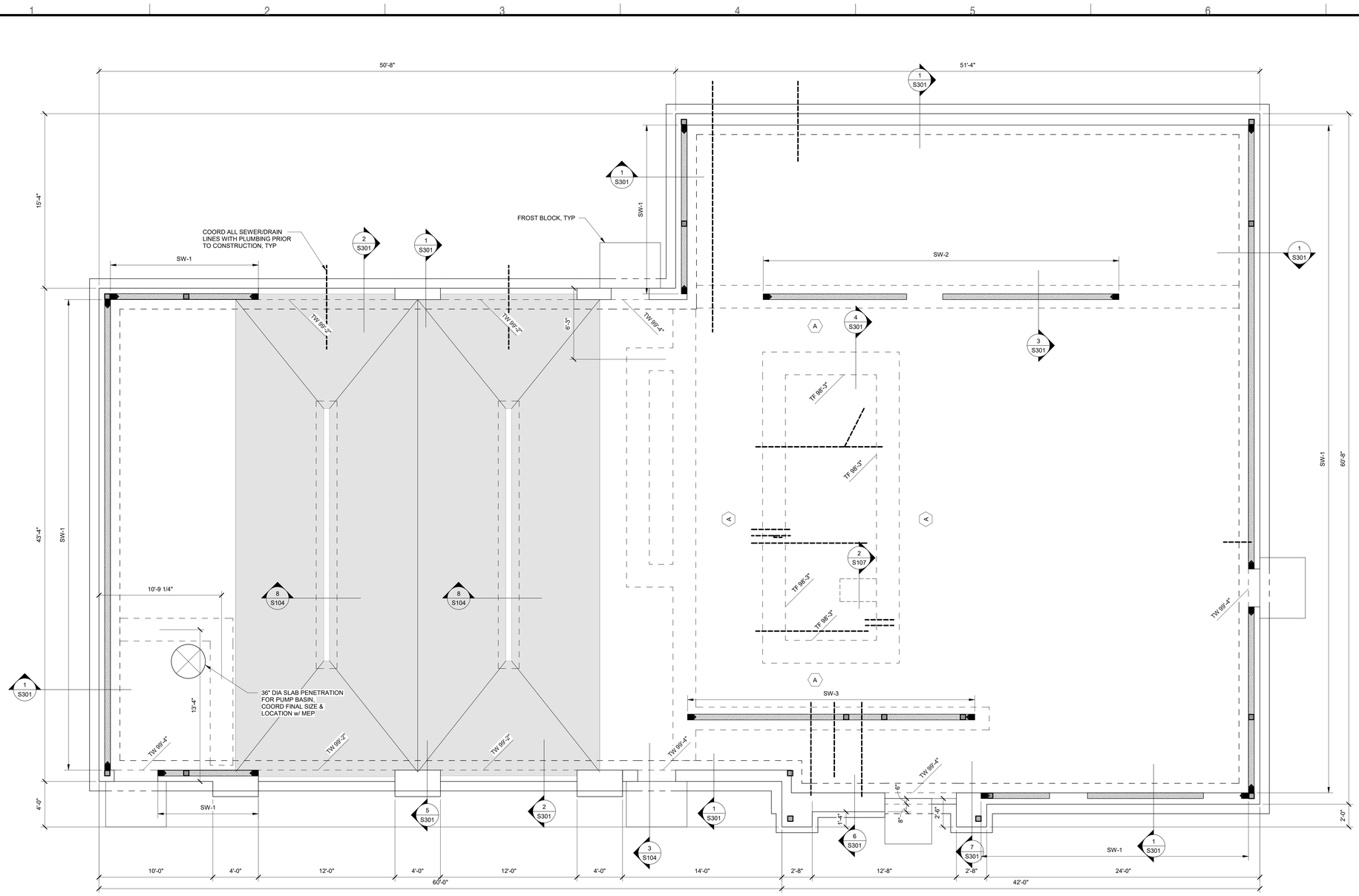
STORM SHELTER LOADING INFORMATION

Project No.
2500248

Sheet No.
S108

Date
10/16/2026

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1 S201 FOUNDATION PLAN
1/4" = 1'-0"

NOTES:
1. FINISHED FLOOR ELEVATION = 100'-0" (USGS [814'-0"), UNO.
2. FLOOR CONSTRUCTION TO BE A 4" CONC SLAB ON GROUND REINFORCED w/ 6x6-W2.1xW2.1 WWR ON 15 MIL VAPOR RETARDER, OVER 4" COMPACTED GRANULAR FILL, UNO.
3. TOP OF FOOTING ELEVATION (TF) = 98'-0", UNO EXTERIOR, TOP OF FOOTING ELEVATION (TF) = 99'-0", UNO INTERIOR.
4. TOP OF FOUNDATION WALL ELEVATION (TW) = 100'-8", UNO.
5. COLUMN FOOTINGS ARE CENTERED EACH WAY ON CENTERLINES, UNO.
6. FOR GENERAL NOTES & TYPICAL DETAILS SEE S100 SERIES SHEETS.

PLAN SYMBOL LEGEND

SHEAR WALL KEY

END CHORD

INDICATES FLOOR CONSTRUCTION TO BE A 5" CONC SLAB ON GROUND REINFORCED w/ 6x6-W2.1xW2.1 WWR ON 15 MIL VAPOR RETARDER, OVER 4" COMPACTED GRANULAR FILL. COORD SLOPES w/ ARCH.

INDICATES 5/8" PLYWOOD SHEATHING ON PRE-ENGINEERED WOOD OVERFRAMING TRUSSES AT 24"oc (MAX) BEARING ON ROOF TRUSSES AT 24"oc. ROOF TRUSSES MUST BE SHEATHED WITH PLYWOOD UNDER OVERFRAMING.

INDICATES MECHANICAL WELL IN ROOF TRUSSES. COORD w/ ARCH.

INDICATES STORAGE ROOM SHELF. CONSTRUCTION TO BE 5/8" PLYWOOD SHEATHING OVER 2x10 JOISTS @ 16" oc. FULL-DEPTH BLOCKING TO BE INSTALLED BETWEEN JOISTS @ MIDSPAN. TOP OF PLYWOOD ELEVATION = 109'-0". COORD w/ ARCH.

INDICATES FRTW PLYWOOD SHEATHING 4'-0" EACH SIDE OF FIREWALL. COORD w/ ARCH.

INDICATES DIRECTION OF FLOOR/DECK SLAB.

CMU WALL SCHEDULE

TYPE	SIZE	VT REINF	HORIZ REINF	REMARKS
A	8"	(1) #5 @ 24" oc	(2) #5 CONT @ 48" oc w/ W1.7 (9 GA) LADDER-TYPE JT REINF @ 16" oc	SPECIAL REINF CMU WALL SEE DETAIL FULLY GROUT ALL CELLS

CENTERED REINFORCEMENT

NOTES:
1. SEE S107 AND S108 FOR TYPICAL MASONRY DETAILS, SPECIAL INSPECTION REQUIREMENTS AND ADDITIONAL STORM SHELTER REQUIREMENTS.
2. VIBRATE GROUT IN MASONRY CELLS.
3. PROVIDE REBAR POSITIONERS TO ENSURE PROPER PLACEMENT OF REINFORCING STEEL.
4. SEE S102 FOR SPECIAL INSPECTION REQUIREMENTS.
5. SEE S108 FOR ADDITIONAL HARDENED STRUCTURE REQUIREMENTS.
6. MASONRY SHALL BE INSTALLED IN A RUNNING BOND PATTERN. SEE ARCH AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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Jason N Richards 10/16/26

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

FOUNDATION PLAN

Project No.
2500248

Sheet No.
S201

Date
10/16/2026

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WOOD HEADER SCHEDULE

INTERIOR WALLS				
SPAN / MARK	SIZE	JACK STUDS	KING STUDS	COMMENTS
0'-0" - 4'-0"*	(3) 2x10 SYP No 1	(2) 2x6	(2) 2x6	
4'-1" TO 7'-0"*	(3) 2x12 SYP No 1	(2) 2x6	(2) 2x6	
EXTERIOR WALLS				
SPAN / MARK	SIZE	JACK STUDS	KING STUDS	COMMENTS
0'-0" - 4'-0"*	(3) 2x10 SYP No 1	(2) 2x6	(2) 2x6	
4'-1" TO 7'-0"*	(3) 2x12 SYP No 1	(2) 2x6	(2) 2x6	
H-1	5 1/4x11 1/4 APB	(3) 2x6	(2) 2x6	
H-2	(2) 1.75x11.25 LVL	(2) 2x6	(2) 2x6	

* INDICATES HEADERS NOT LABELED ON PLAN SHALL BE SPECIFIED BASED ON SPAN LENGTH

NOTES:
1. FASTEN MULTI-PLY SAWN LUMBER BEAMS PER 8 / S105.
2. FASTEN MULTI-PLY LVL BEAMS PER 7 / S105.

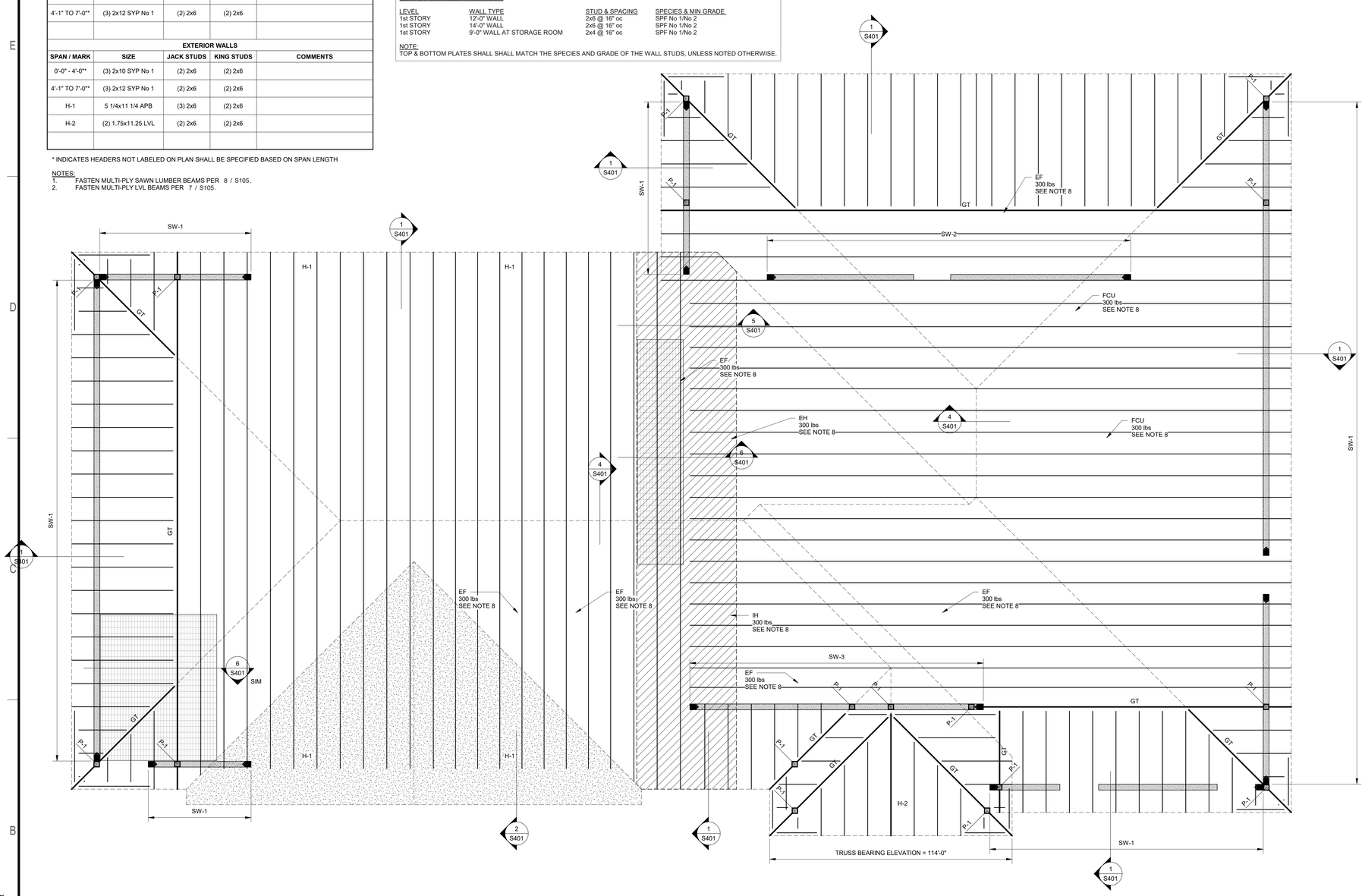
WOOD POST SCHEDULE

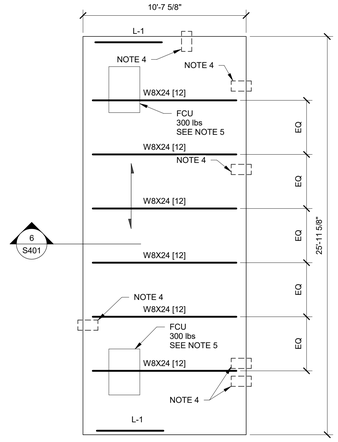
MARK	SIZE	SIMPSON POST BASE	REMARKS
P-1	(3) 2x6		

WOOD BEARING WALL SCHEDULE

LEVEL	WALL TYPE	STUD & SPACING	SPECIES & MIN GRADE
1st STORY	12'-0" WALL	2x6 @ 16" oc	SPF No 1/No 2
1st STORY	14'-0" WALL	2x6 @ 16" oc	SPF No 1/No 2
1st STORY	9'-0" WALL AT STORAGE ROOM	2x4 @ 16" oc	SPF No 1/No 2

NOTE:
TOP & BOTTOM PLATES SHALL SHALL MATCH THE SPECIES AND GRADE OF THE WALL STUDS, UNLESS NOTED OTHERWISE.





2 S202 STORM SHELTER FRAMING FRAMING PLAN
1/4" = 1'-0"

NOTES:
1. TOP OF SLAB ELEVATION IS 109'-0", UNO.
2. SLAB CONSTRUCTION TO BE 3" NORMAL WEIGHT CONCRETE SLAB ON 2" x 20 GA COMPOSITE METAL DECK (5" TOTAL THICKNESS) REINFORCED w/ #4 @ 12" oc, EW. LOCATE BARS IN MIDDLE OF SLAB. SEE GENERAL NOTES FOR DECK ATTACHMENT.
3. FOR GENERAL NOTES & TYPICAL DETAILS SEE S100 SERIES SHEETS.
4. WHERE INDICATED ON PLAN, PROVIDE HARDENED DUCT SLEEVE AT MEP PENETRATION THROUGH CMU WALL. COORDINATE FINAL SIZE AND LOCATION WITH MEP. SEE SECTION 3 / S108 FOR TYPICAL DETAIL.
   HARDENED DUCT SHALL BE SIZED AS FOLLOWS:
   FOR 3" ⌀ DUCTS - HSS5x0.250
   FOR 4" ⌀ DUCTS - HSS6x0.250
   FOR 5" ⌀ DUCTS - HSS8.625x0.250.
5. COORDINATED FINAL EQUIPMENT WEIGHTS AND LOCATIONS w/ MEP.

PLAN SYMBOL LEGEND

SHEAR WALL KEY

END CHORD

INDICATES FLOOR CONSTRUCTION TO BE A 5" CONC SLAB ON GROUND REINFORCED w/ 6x6-W2.1xW2.1 WWR ON 15 MIL VAPOR RETARDER, OVER 4" COMPACTED GRANULAR FILL. COORD SLOPES w/ ARCH.

INDICATES 5/8" PLYWOOD SHEATHING ON PRE-ENGINEERED WOOD OVERFRAMING TRUSSES AT 24"oc (MAX) BEARING ON ROOF TRUSSES AT 24"oc. ROOF TRUSSES MUST BE SHEATHED WITH PLYWOOD UNDER OVERFRAMING.

INDICATES MECHANICAL WELL IN ROOF TRUSSES. COORD w/ ARCH.

INDICATES STORAGE ROOM SHELF. CONSTRUCTION TO BE 5/8" PLYWOOD SHEATHING OVER 2x10 JOISTS @ 16" oc. FULL-DEPTH BLOCKING TO BE INSTALLED BETWEEN JOISTS @ MIDSPAN. TOP OF PLYWOOD ELEVATION = 109'-0". COORD w/ ARCH.

INDICATES FRTW PLYWOOD SHEATHING 4'-0" EACH SIDE OF FIREWALL. COORD w/ ARCH.

INDICATES DIRECTION OF FLOOR/DECK SLAB.

ERECTION OF TRUSSES

1. TEMPORARY AND PERMANENT BRACING OF THE TRUSS MEMBERS IS THE RESPONSIBILITY OF THE ERECTOR.
2. THE GUIDELINES AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING OF ROOF TRUSSES SHOULD BE FOLLOWED ACCORDING TO THE TRUSS PLATE INSTITUTE (TPI).
3. REFER TO APPROVED TRUSS SHOP DRAWINGS FOR ALL REQUIRED PERMANENT BRACING FOR TRUSS MEMBERS.
4. GIRDER TRUSSES CONSISTING OF MULTIPLE PLIES SHALL BE FASTENED TOGETHER ACCORDING TO THE TRUSS DESIGN DRAWINGS PRIOR TO LIFTING AND ERECTING IN PLACE.
5. DO NOT REMOVE THE TEMPORARY BRACING UNTIL SHEATHING AND PERMANENT BRACING ARE IN PLACE.
6. THE REMOVAL OF THE TEMPORARY BRACING SHALL BE IN A SEQUENCE THAT ENSURES THE GENERAL STABILITY OF THE ROOF SYSTEM.

1 S202 ROOF FRAMING PLAN
1/4" = 1'-0"

NOTES:
1. ROOF CONSTRUCTION TO BE 19/32" MIN PLYWOOD SHEATHING (EXPOSURE 1, EXTERIOR GLUE & 4 PLY) OVER PRE-ENGINEERED WOOD TRUSSES @ 24" oc MAX, UNO. ROOF TRUSS DESIGN & LOCATION BY TRUSS MFR. TRUSS MFR TO COORDINATE SLOPES w/ ARCH.
2. TRUSS BEARING ELEVATION = 112'-0", UNO.
3. COORDINATE w/ ARCH FOR DIMENSIONS OF LOAD BRG WALLS & SHEAR WALLS.
4. STRUCTURAL FRAMING INDICATED APPLIES TO WALLS/OPENINGS BELOW, TYP.
5. PROVIDE ROOF TRUSS ABOVE EVERY SHEAR WALL PARALLEL TO TRUSSES. TRUSS TO BE DESIGNED FOR LATERAL LOAD IN COMBINATION WITH GRAVITY LOADS. SEE S500 SERIES SHEETS FOR SHEAR WALL FORCE SCHEDULE.
6. ROOF TRUSS SUPPLIER TO DESIGN FOR ROOF TOP UNITS. COORD w/ MECH & ARCH FOR SIZE(S) & LOCATION(S).
7. FOR GENERAL NOTES & TYPICAL DETAILS SEE S100 SERIES SHEETS.
8. COORDINATED FINAL EQUIPMENT WEIGHTS AND LOCATIONS w/ MEP.

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No.	Date	Revision
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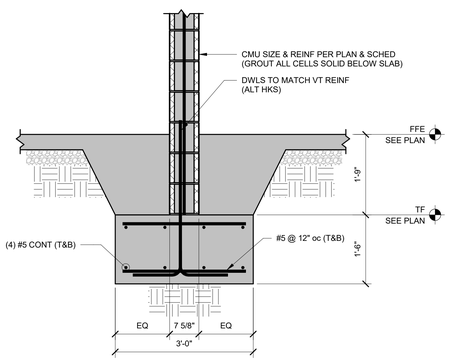
ROOF FRAMING PLAN

Project No.
2500248

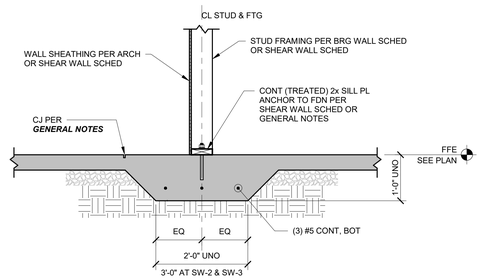
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S202

Date
10/16/2026

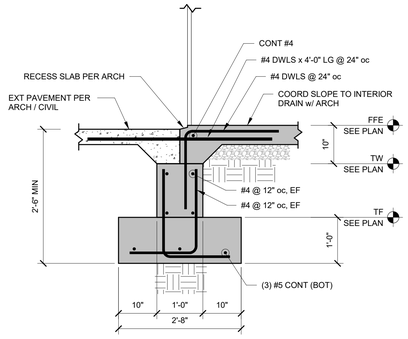
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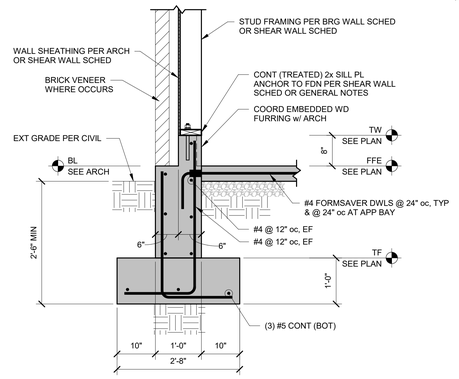
4 S301 INTERIOR CMU BEARING WALL
3/4" = 1'-0"



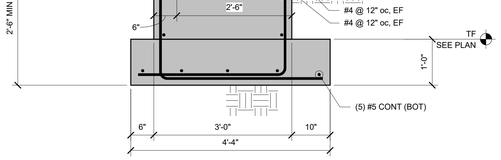
3 S301 INTERIOR FOUNDATION AT SHEAR WALL OR LOAD BRG WALL
3/4" = 1'-0"



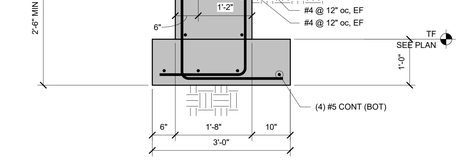
2 S301 SECTION AT OVERHEAD DOORS
3/4" = 1'-0"



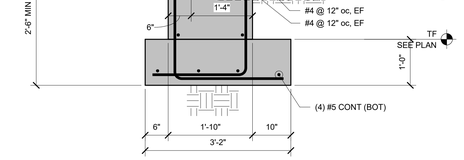
1 S301 EXTERIOR STEM WALL FOUNDATION WITH BRICK
3/4" = 1'-0"



7 S301 SECTION
3/4" = 1'-0"



6 S301 SECTION
3/4" = 1'-0"



5 S301 SECTION BETWEEN BAY DOORS AT SOUTH SIDE
3/4" = 1'-0"

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	04/15/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

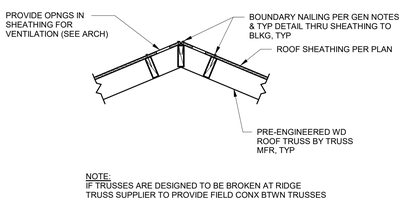
FOUNDATION SECTIONS & DETAILS

Project No.
2500248

Sheet No.
S301

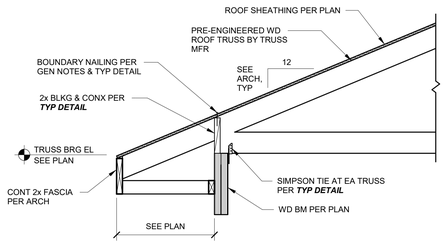
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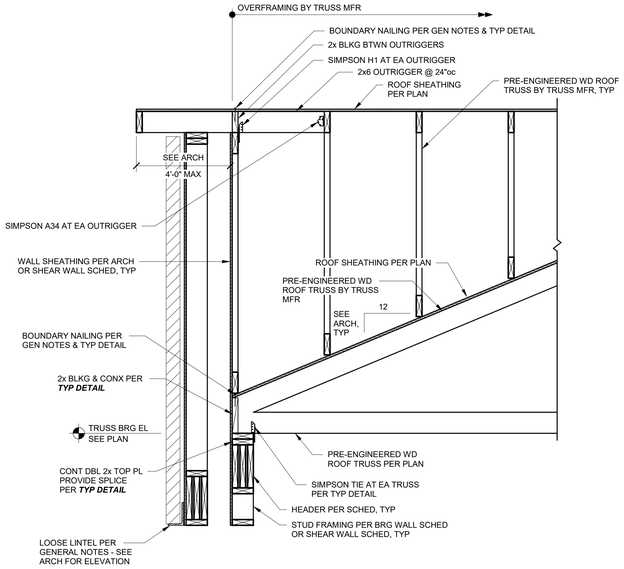


NOTE:
IF TRUSSES ARE DESIGNED TO BE BROKEN AT RIDGE
TRUSS SUPPLIER TO PROVIDE FIELD CONX BTWN TRUSSES

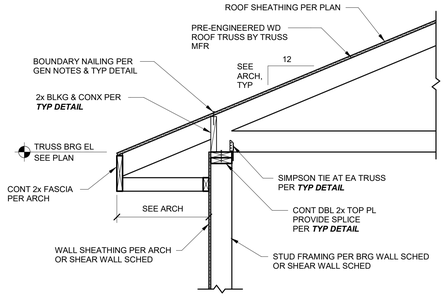
4 S401 ROOF TRUSS RIDGE
3/4" = 1'-0"



3 S401 ROOF TRUSS EXTERIOR AT WOOD BEAM
3/4" = 1'-0"



2 S401 ROOF TRUSS EXTERIOR PERPENDICULAR WITH OVERFRAMING
3/4" = 1'-0"



1 S401 ROOF TRUSS EXTERIOR PERPENDICULAR
3/4" = 1'-0"

6 S401 SECTION
3/4" = 1'-0"

5 S401 SECTION AT FIREWALL
3/4" = 1'-0"

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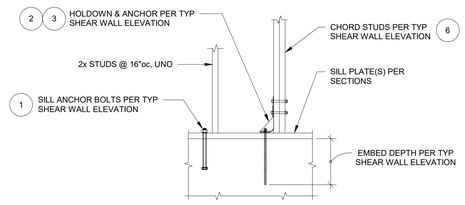
FRAMING SECTIONS & DETAILS

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2500248

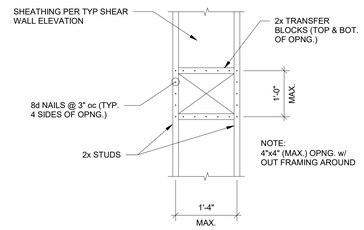
Sheet No.
S401

Date
10/16/2026

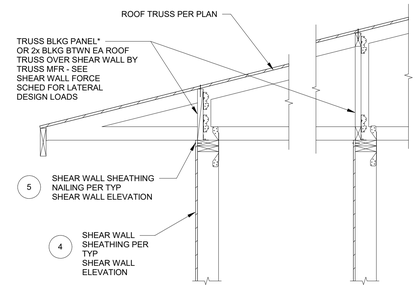
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2 S501 TYPICAL SHEAR WALL HOLD DOWN DETAIL AT FOUNDATION / BASEMENT WALLS
3/4" = 1'-0"

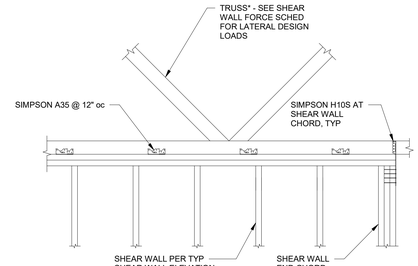


1 S501 TYPICAL DETAIL AT OPENING IN SHEARWALL FOR ELECTRICAL OR PLUMBING
3/4" = 1'-0"



* INDICATES TRUSS MFR TO DESIGN BLKG TRUSSES FOR ROOF LOADS IN ADDITION TO SHEAR WALL FORCE

4 S501 TYPICAL SHEAR WALL AT ROOF (TRUSSES PERPENDICULAR TO SHEAR WALLS)
3/4" = 1'-0"



* INDICATES TRUSS MFR TO DESIGN TRUSS FOR GRAVITY LOADS IN ADDITION TO SHEAR WALL FORCE

3 S501 TYPICAL SHEAR WALL AT ROOF (TRUSSES PARALLEL TO SHEAR WALLS)
3/4" = 1'-0"

SHEAR WALL FORCE SCHEDULE AT ROOF	
SHEAR WALL	SHEAR (PLF)
1	310
2	230
3	210

NOTE: ALL FORCES ARE SERVICE FORCES IN POUNDS PER LINEAR FOOT.

1 ANCHOR RODS, BOTTOM PLATE TO FOUNDATION
(MIN OF 2 BOLTS PER SEGMENT OF FULL HEIGHT SHEATHED WALL)
5/8" DIA HILTI KWIK-HUS EZ (5" NOMINAL EMBED DEPTH MIN) @ 48" oc, UNO - REFER TO SECTIONS FOR BASE CONNECTION

2 HOLD DOWN ANCHOR, HOLD DOWN TO FOUNDATION
SIMPSON SB 5/8" DIA x 24" (18" EMBED) AT SW-1
5/8" DIA ADHESIVE ANCHOR AT SW-2 & SW-3

3 HOLD DOWN
SIMPSON HDUE3, UNO

4 PLYWOOD SHEATHING
15/32" STRUCTURAL I (MIN), UNO

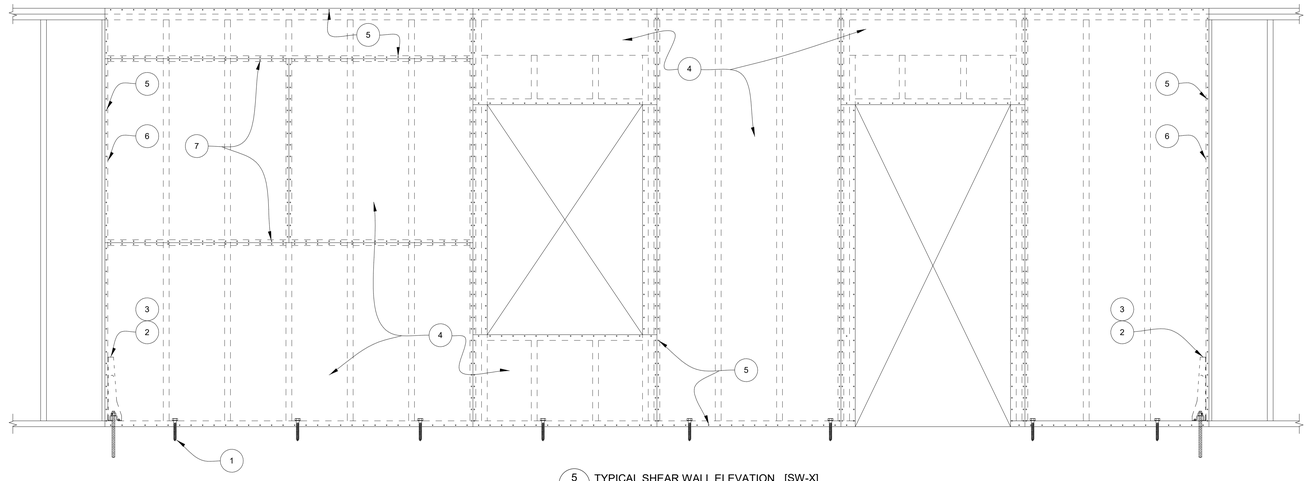
5 SHEATHING NAILING
8d @ 6" oc EDGE NAILING, 8d @ 12" FIELD NAILING, UNO

6 END CHORDS
(2) 2x6, UNO
NOTE: PROVIDE NAILING PER (5) EVEN IF END CHORD DOES NOT OCCUR AT A PANEL EDGE

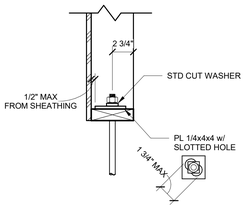
7 2x BLKG TO MATCH WALL STUDS AT SHEATHING PANEL EDGES AS REQD

TYPICAL NOTES:
1. TOP & BOT PLATES AND STUDS TO BE 2x6 SPRUCE-PINE-FIR, NO.1 / NO.2 OR BETTER
2. NAILING OR SCREWING TO CONN HARDWARE TO BE PER MFR RECOMMENDATIONS
3. REFER TO TYP DETAILS FOR BUILT UP STUD CONSTRUCTION
4. NAILING CAPACITIES BASED ON A MIN 12x DIA PENETRATION, UNO

6 S501 TYPICAL SHEAR WALL NOTES
3/4" = 1'-0"



5 S501 TYPICAL SHEAR WALL ELEVATION [SW-X]
3/4" = 1'-0"



7 S501 SHEAR WALL SILL PLATE ANCHOR DETAIL
1 1/2" = 1'-0"

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No.	Revision	Date
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3	BIDDING DOCUMENTS	10/16/2026

SHEAR WALL ELEVATION AND DETAILS

Project No.
2500248

Sheet No.
S501

Date
10/16/2026

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GENERAL SYMBOLS:

- THERMOSTAT
- CARBON MONOXIDE SENSOR
- CARBON DIOXIDE SENSOR
- HUMIDISTAT
- SENSOR (T = TEMPERATURE H = HUMIDITY)
- TYPE OF SERVICE — S = SUPPLY; SCHEDULE — R = RETURN; DEVICE NO — E = EXHAUST; T = TRANSFER
- AIR QUANTITY IN CFM
- KEYED NOTE (NEW CONSTRUCTION OR DEMOLITION)
- REVISION
- INTERFACE, EXISTING TO NEW
- SECTION NUMBER
- SHEET WHERE LOCATED
- EQUIPMENT DESIGNATION
- UNIT NUMBER
- VIEW REFERENCE / VIEW NUMBER / SHEET NUMBER

DUCTWORK SYMBOLS:

- DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (ACTUAL SIZE INDICATED)
- SPIRAL FLAT - OVAL DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (ACTUAL SIZE INDICATED)
- ACCESS PANEL, TOP OR SIDE
- FLEXIBLE DUCT CONNECTION
- CHANGE OF ELEVATION - RISE (R) OR DROP (D)
- TURNING VANES
- LIGHT LINETYPE INDICATES EXISTING ITEMS TO REMAIN
- DASHED LINETYPE INDICATES EXISTING ITEMS TO BE REMOVED
- MOTORIZED DAMPER
- GRAVITY BACK DRAFT
- MANUAL VOLUME DAMPER
- FIRE DAMPER
- SMOKE DAMPER
- FIRE/SMOKE DAMPER
- VENTURI AIR VALVE
- FLEXIBLE DUCT
- SUPPLY AIR SECTION UP
- RETURN AIR SECTION UP
- EXHAUST AIR SECTION UP
- OUTSIDE AIR SECTION UP
- SUPPLY AIR DOWN OR AWAY
- RETURN AIR DOWN OR AWAY
- EXHAUST AIR DOWN OR AWAY
- OUTSIDE AIR DOWN OR AWAY
- SUPPLY AIR FLOW ARROW
- RETURN OR EXHAUST AIR FLOW ARROW
- SUPPLY DIFFUSER, REGISTER OR GRILLE AS SCHEDULED
- RETURN OR EXHAUST GRILLE OR REGISTER AS SCHEDULED
- SLOT DIFFUSER AS SCHEDULED
- SIDEWALL GRILLE OR REGISTER AS SCHEDULED
- ARROWS INDICATE DIRECTION OF AIR DISCHARGE. IF NO ARROWS ARE SHOWN ON PLAN, DEFAULT IS 2-WAY HORIZONTAL FOR SLOT DIFFUSERS, 4-WAY HORIZONTAL FOR SQUARE DIFFUSERS

PIPING SYMBOLS:

CA	COMPRESSED AIR
CHR	CHILLED/HOT WATER RETURN
CHS	CHILLED/HOT WATER SUPPLY
CF	CHEMICAL FEED
GLR	GLYCOL RETURN
GLS	GLYCOL SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAIN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RV	REFRIGERANT VENT
RHG	REFRIGERANT HOT GAS
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
LPR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM SUPPLY
NP	MAKE-UP WATER (NON-POTABLE)
PC	PUMPED CONDENSATE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
G	NATURAL GAS
LP	LIQUEFIED PRETROLEUM

PIPELINE EQUIPMENT:

- BALL VALVE
- BLOWDOWN VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE REGULATING VALVE
- RELIEF VALVE (TEMP/PRESS)
- STOP CHECK VALVE
- PRESSURE TEST VALVE
- SOLENOID VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- TRIPLE DUTY/MULTIPURPOSE VALVE
- FLOW CONTROL VALVE
- LUBRICATED PLUG COCK
- IN-LINE PUMP
- STRAINER
- STRAINER WITH BLOWDOWN
- UNION
- FLANGE
- ECCENTRIC REDUCER/INCREASER
- CONCENTRIC REDUCER/INCREASER
- AIR VENT (M-MANUAL, A-AUTO)
- THERMOMETER W/THERMAL WELL
- PRESSURE GAUGE W/GAUGE COCK
- CAP
- CALIBRATED PLUG VALVE/CIRCUIT SETTER
- FLEXIBLE PIPE COUPLING
- GAUGE COCK
- THERMOSTATIC EXPANSION VALVE
- SIGHT GLASS
- ELBOW DOWN
- ELBOW UP
- TEE DOWN
- TEE UP
- EXPANSION JOINT
- PIPE ANCHOR
- PIPE GUIDE
- PITCH DOWN IN DIRECTION OF ARROW
- PRESSURE/TEMPERATURE TEST PORT
- FLOW ARROW

EQUIPMENT ABBREVIATIONS:

AC	AIR CURTAIN
ACC	AIR COOLED CONDENSER
ACU	AIR CONDITIONING UNIT
AF	AIR FILTER
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
AS	AUTOMATIC SPRINKLER
AV	AUTOMATIC VENT
B	BOILER
BFP	BACKFLOW PREVENTER
BCU	BLOWER COIL UNIT
C	CHILLER
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CFP	CHEMICAL FEED PUMP
CO	CLEANOUT
CP	CONDENSER WATER PUMP
CRP	CONDENSATE RETURN PUMP
CRU	COMPUTER ROOM AIR CONDITIONING UNIT
CT	COOLING TOWER
CTF	COOLING TOWER FILTER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CVAV	CONSTANT VOLUME AIR VALVE
CWP	CHILLED WATER PUMP
DOAS	DEDICATED OUTSIDE AIR SYSTEM
DC	DUCT COIL
DFH	DEAERATING FEEDWATER HEATER
DG	DOOR GRILLE
DP	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EH	EXHAUST HOOD
EJ	EXPANSION JOINT
ER	EXHAUST REGISTER
ERH	ELECTRIC RADIANT HEATER
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EVC	EVAPORATIVE COOLER
FC	FLEXIBLE DUCT CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLDR	FLOOR DRAIN
FS	FLOW SWITCH
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FLASH TANK
FTR	FIN-TUBE RADIATION
FTU	FAN TERMINAL UNIT
FVAV	FAN POWERED VARIABLE AIR VOLUME BOX
FVI	FLOOR VACUUM INLET
GP	GLYCOL PUMP
H	HUMIDIFIER
HC	HEATING COIL
HEV	HOSE END VALVE
HPU	HEAT PUMP UNIT
HRP	HEAT RECOVERY LOOP PUMP
HRU	HEAT RECOVERY UNIT
HWP	HEATING WATER PUMP
HX	HEAT EXCHANGER
IH	INTAKE HOOD
KEH	KITCHEN EXHAUST HOOD
L	LOUVER
LD	LINEAR DIFFUSER
MAU	MAKE-UP AIR UNIT
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MV	MANUAL VENT
OBD	OPPOSED BLADE DAMPER
PA	PIPE ANCHOR
PAC	PACKAGED AIR CONDITIONING UNIT
PBD	PARALLEL BLADE DAMPER
PCWP	PRIMARY CHILLED WATER PUMP
PG	PIPE GUIDE
PHC	PREHEAT COIL
PHWP	PRIMARY HEATING WATER PUMP
PHX	PLATE HEAT EXCHANGER
PI	PRESSURE INDICATOR
PIV	POST INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
RF	RETURN FAN
RG	RETURN GRILLE
RR	RETURN REGISTER
RTU	ROOFTOP UNIT
SAC	SURGICAL AIR COMPRESSOR
SCBA	SELF CONTAINED BREATHING APPARATUS
SCD	SMOKE CONTROL DAMPER
SCWP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SHWP	SECONDARY HEATING WATER PUMP
SMS	SNOW MELTING SYSTEM
SR	SUPPLY REGISTER
ST	STERILIZER
SVV	SAFETY VALVE VENT
TG	TRANSFER GRILLE
TMV	THERMOSTATIC MIXING VALVE
TRC	TERMINAL REHEAT COIL
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME BOX
VD	MANUAL VOLUME DAMPER
VE	VIBRATION ELIMINATOR

GENERAL ABBREVIATIONS:

A	AIR
ACC	ACCESSORIES
AFF	ABOVE FINISHED FLOOR
AI	ANALOG SIGNAL INPUT
AO	ANALOG SIGNAL OUTPUT
APD	AIR PRESSURE DROP
APLV	APPLICATION PART LOAD VALUE
ARCH	ARCHITECTURE / ARCHITECT
AUX	AUXILIARY
AVG	AVERAGE
BDD	BACK DRAFT DAMPER
BFC	BELOW FINISHED CEILING
BHP	BRAKE HORSEPOWER
BI	BINARY SIGNAL INPUT
BM	BEAM
BO	BINARY SIGNAL OUTPUT
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BS	BEAM SPACE
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CCD	CONTROLLED CLOSURE DEVICE
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CL	CENTERLINE
CLG	COOLING DUCT (COLD DUCT)
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CORR	CORRIDOR
CV	CONTROL VALVE
DB	DRY BULB
DBA	A-WEIGHTED DECIBELS
DEFL	DEFLECTION
DEG	DEGREES
DEG F	DEGREES FAHRENHEIT
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DTL	DETAIL
DWG(S)	DRAWING(S)
EA	EXHAUST AIR OR EACH (PER CONTEXT)
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRIC CONTRACTOR
EER	ENERGY EFFICIENT RATIO
EFF	EFFICIENCY
ELEC	ELECTRIC
ELEV	ELEVATION
EOR	ENGINEER OF RECORD
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING AIR WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST, EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FIN	FINISHED
FLR	FLOOR
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FT	FEET
FT-HD	HEAD IN FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H	HEIGHT
HS	HEAD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HTG	HEATING DUCT (HOT DECK)
HVAC	HEATING, VENTILATION AND AIR CONDITION
HW	HOT WATER
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH/INCHES
INDIC	INDICATOR
ISP	INTERNAL STATIC PRESSURE
JS	JOIST SPACE
KEC	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATTS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LB(S)	POUND(S)

GENERAL ABBREVIATIONS:

LF	LINEAR FEET
LS	LIGHT SPACE
LVL	LEVEL
LWT	LEAVING WATER TEMPERATURE
MAN	MANUAL
MAX	MAXIMUM
MBH	THOUSANDS BRITISH THERMAL UNITS PER HOUR
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
NC	NORMALLY CLOSED OR NOISE CRITERIA (PER CONTEXT)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN OR NUMBER (PER CONTEXT)
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NPS	NOMINAL PIPE SIZE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
OT	OIL TRAP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PENT	PENTHOUSE
PH	PHASE
PNEU	PNEUMATIC
PPH	POUNDS PER HOUR
PRESS	PRESSURE
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAD	RADIATED
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAN	SANITARY
SEC'N	SECTION
SENS	SENSIBLE
SF	SQUARE FOOT
SH	SENSIBLE HEAT
SHT	SHEET
SOL	SOLENOID
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DIFFERENTIAL
SPT	STATIC PRESSURE TRANSMITTER
SQ	SQUARE
SST	STAINLESS STEEL
STL	STEEL
STM	STEAM
SW	SOFTENED WATER
T&P	TEMPERATURE AND PRESSURE
TC	TEMPERATURE CONTROL
TD	THERMODYNAMIC
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOT	TOTAL
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDER CUT DOOR
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAC	VACUUM
VB	VACUUM BREAKER
VD	VOLUME DAMPER (MANUAL)
VE	VIBRATION ELIMINATOR OR ISOLATOR
VEL	VELOCITY
VERT	VERTICAL
VOL	VOLUME
VRF	VARIABLE REFRIGERANT FLOW
VTR	VENT THRU ROOF
W	WATT OR WIDTH (PER CONTEXT)
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DIFFERENTIAL
WT	WEIGHT

GENERAL NOTES:

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS AND FIELD OBSERVATIONS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
2. ALL ELBOWS, FITTINGS, ETC. IN PIPING AND DUCTWORK ARE NOT NECESSARILY INDICATED TO CLEAR ALL EXISTING AND NEW JOB OBSTRUCTIONS.
3. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE MECHANICAL WORK, COORDINATION BETWEEN THE VARIOUS TRADES IS OF THE UTMOST IMPORTANCE.
4. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS, OR IS NOT SURE OF THEIR MEANING, THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION, PRIOR TO SUBMITTING THE BID, SINCE THE CONTRACTOR SHALL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL CEILING AIR DEVICE LOCATIONS.
6. REFER TO THE ARCHITECTURAL ELEVATION DRAWINGS FOR LOCATION OF WALL MOUNTED MECHANICAL ITEMS.
7. ROUND AND/OR RECTANGULAR DUCT RUN-OUTS TO AIR DEVICES, SHALL BE SIZED PER THE AIR DEVICE SCHEDULE.
8. DUCT SIZES SHOWN ARE FREE AREA. IF DUCT LINER IS USED, INCREASE THE SHEETMETAL SIZE TO MAINTAIN THE SAME FREE AREA SHOWN ON THE PLANS.
9. LOCATE ALL DUCT BALANCING DAMPERS ABOVE ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS. MINIMUM ACCESS DOOR SIZE SHALL BE 18x18 UNLESS OTHERWISE APPROVED BY ENGINEER.
10. PROVIDE VOLUME DAMPERS IN ACCESSIBLE LOCATION IN BRANCH DUCTWORK FOR ALL SUPPLY, RETURN, AND EXHAUST AIR DEVICES WHETHER SHOWN ON THE DRAWINGS OR NOT. REFER TO THE AIR DEVICE SCHEDULE FOR DEVICES WITH BUILT IN DAMPERS.
11. BLANK-OFF AREAS OF LOUVERS NOT USED WITH 20 GAGE SHEET METAL DOUBLE WALL BLANK-OFF PANEL INSULATED WITH 2" RIGID FIBERBOARD, SEAL AIR TIGHT.
12. INSTALL RIGID 1"x1" GALVANIZED STEEL WIRE MESH AT ALL OPEN ENDED DUCTS IN OCCUPIED AREAS OR EXPOSED TO VIEW.
13. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
14. COORDINATE INSTALLATION OF NEW DUCTWORK AND PIPING WITH EXISTING BUILDING STRUCTURE, DUCTWORK, PIPING, ELECTRICAL CONDUIT, LIGHTING, ETC.
15. INSTALL ALL FLOOR MOUNTED HVAC EQUIPMENT, INCLUDING AHUS, CUS, ETC. ON 4" MINIMUM HEIGHT CONCRETE HOUSEKEEPING PAD. EXTEND PAD MINIMUM 4" BEYOND EQUIPMENT AT ALL SIDES. REFER TO STRUCTURAL PLANS FOR LOCATION.
16. PATCH ALL WALLS, FLOORS, CEILINGS AND ROOFS TO MATCH EXISTING IN ALL CASES WHERE EXISTING WALLS, FLOORS, CEILINGS AND ROOFS REMAIN AND HVAC DEMOLITION IS INDICATED.
17. PROVIDE POSITIVE DRAINAGE OF ALL PLENUMS CONNECTED TO OUTSIDE LOUVERS. WATERPROOF BOTTOM OF PLENUMS. SLOPE PLENUM BOTTOM TO LOUVER OR PROVIDE DRAIN POINTS WITH DISCHARGE TO DRAIN.
18. REFRIGERANT PIPING TO BE SIZED BY THE EQUIPMENT MANUFACTURER.
19. ROUTE CONDENSATE PIPING FROM ALL EQUIPMENT TO NEAREST FLOOR DRAIN UNLESS NOTED OTHERWISE ON THE FLOOR PLANS. DRAINS SHALL BE DWV COPPER IN ALL RETURN AIR PLENUMS AND WHERE HIDDEN IN INACCESSIBLE WALLS, FLOORS, CEILINGS, ETC. UNLESS SPECIFICALLY NOTED OTHERWISE.
20. DETAILS SHOWN IN THESE DRAWINGS APPLY TO INSTALLATIONS INDICATED REGARDLESS AS TO IF THEY ARE SPECIFICALLY REFERENCED ELSE WHERE IN THE DRAWING SET. ANY QUESTIONS ON THEIR APPLICABILITY SHALL BE SENT TO THE ENGINEER PRIOR TO BIDDING.

MECHANICAL SYSTEM COMPONENTS EARTHQUAKE LOAD RESISTANCE

OCCUPANCY CATEGORY (IV) — **SEISMIC DESIGN CATEGORY (D)**

LISTING OF EQUIPMENT & SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY-SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
					ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL SEPARATE PERMIT AND PLANS	
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION		
HAZARDOUS EQUIPMENT AND SYSTEM COMPONENTS Ip=1.5							
OTHER EQUIPMENT & SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF OCCUPANCY CATEGORY IV FACILITIES OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION Ip=1.5							
ROOFTOP; RTU, EF, MUA, AHU, CU > 400 LBS		X	X			X	
ROOFTOP; RTU, EF, MUA, AHU, CU <= 400 LBS		X	X			X	
SUSPENDED FROM STRUCTURE; EF, FCU, VAV > 20 LBS		X		X		X	
SUSPENDED FROM STRUCTURE; EF, FCU, VAV <= 20 LBS	X		X				NOTE 3
WALL MOUNTED; UH, FCU, ETC.		X	X				
DUCTWORK	X		X				NOTE 6
PIPING > 1"		X		X		X	
PIPING < 1"	X		X				NOTE 7.4B
DIFFUSER, REGISTERS, & GRILLES	X		X				NOTE 3
FIRE DAMPERS, LOUVERS	X		X				

EXPLANATORY NOTES:
1. PLANS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THIS PROJECT ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE AHJ A MINIMUM OF TWO WEEKS PRIOR TO THE PLANNED INSTALLATION TO ALLOW FOR PLAN REVIEW AND DISTRIBUTION TO THE INSPECTOR. ADDITIONAL TIME MAY BE NEEDED IF SUCH SUBMISSIONS ARE DEFICIENT.
2. SWAY BRACING REQUIRED FOR ITEMS SUSPENDED FROM STRUCTURE, UNLESS EXEMPT.
3. ANCHORAGE & BRACING CONTRACTOR SHALL REFER TO SPECIFICATIONS ON SEISMIC ANCHORAGE & SWAY BRACING.
4. ALL SEISMIC SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE CODE REVIEWER.
5. CONTRACTOR SHALL ADHERE TO REQUIREMENTS FOR EXEMPTION, WHERE NOTED, OR PROVIDE SEISMIC BRACING DESIGNED BY A QUALIFIED ENGINEER LICENSED IN THE PROJECT'S STATE.

EXEMPTION NOTES:
1. SEISMIC DESIGN CATEGORY B - ASCE 7-22 TABLE 13.1-1
2. SEISMIC DESIGN CATEGORY C, THE COMPONENT IMPORTANCE FACTOR IS Ip=1.0, AND THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE. ASCE 7-22 TABLE 13.1-1.
3. SEISMIC DESIGN CATEGORY C, D, E, OR F, AND THE COMPONENT WEIGHS 20 LBS OR LESS. ASCE 7-22 TABLE 13.1-1.
4. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND THE CENTER OF MASS IS 4 FT OR LESS ABOVE THE FLOOR, AND THE COMPONENT WEIGHS 400LBS OR LESS, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. ASCE 7-22 TABLE 13.1-1.
5. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND FOR DISTRIBUTION SYSTEMS THE OPERATING WEIGHT OF THE SYSTEM IS 5LB/FT OR LESS. ASCE 7-22 TABLE 13.1-1.
6. DUCTWORK WITH A CROSS-SECTIONAL AREA LESS THAN 6 FT^2 AND WEIGH 20 LB/FT OR LESS WHERE PROVISIONS ARE MADE TO AVOID IMPACT WITH OTHER DUCTS OR MECHANICAL COMPONENTS OR TO PROTECT THE DUCTS IN THE EVENT OF SUCH IMPACT AND THE DISTRIBUTION SYSTEM IS POSITIVELY ATTACHED TO THE STRUCTURE. ASCE 7-22 SECTION 13.6.6 EXCEPTION 2.
7. PIPING SYSTEMS WHERE FLEXIBLE CONNECTIONS, EXPANSION LOOPS, OR OTHER ASSEMBLIES ARE PROVIDED TO ACCOMMODATE THE RELATIVE DISPLACEMENT BETWEEN COMPONENT AND PIPING, WHERE THE PIPING SYSTEM IS POSITIVELY ATTACHED TO THE STRUCTURE, AND WHERE ONE OF THE FOLLOWING APPLY (ASCE 7-22 SECTION 13.6.7.3):
   7.1 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.375 IN. (10 MM) DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. (305 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE GREATER SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH Ip GREATER THAN 1.0, NO SINGLE PIPE EXCEEDS THE LIMITS SET FORTH IN ITEMS 7.4A, 7.4B, OR 7.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS;
   7.2 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.5 IN. (13 MM) DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. (305 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH Ip GREATER THAN 1.0, NO SINGLE PIPE EXCEEDS THE DIAMETER LIMITS SET FORTH IN ITEMS 7.4A, 7.4B, OR 7.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 200 LB (890 N) OR LESS;
   7.3 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.5 IN. (13 MM) DIAMETER ROD HANGERS NOT EXCEEDING 24 IN. (610 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE GREATER SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH Ip GREATER THAN 1.0, NO SINGLE PIPE EXCEEDS THE DIAMETER LIMITS SET FORTH IN ITEMS 7.4A, 7.4B, OR 7.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS;
   7.4 PIPING IS SUPPORTED BY ROD HANGERS AND PROVISIONS ARE MADE TO AVOID IMPACT WITH OTHER STRUCTURAL OR NONSTRUCTURAL COMPONENTS OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT, OR PIPES ARE SUPPORTED BY INDIVIDUAL ROD HANGERS 0.375 IN. (10 MM) OR 0.5 IN. (13 MM) IN DIAMETER, WHERE EACH HANGER IN THE PIPE RUN IS 12 IN. (305 MM) OR LESS IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE HANGER IS 50 LB (220 N) OR LESS. IN ADDITION, THE FOLLOWING LIMITATIONS ON THE SIZE OF PIPING SHALL BE OBSERVED:
      (A) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C WHERE Ip IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE IS 2 IN. (50 MM) OR LESS.
      (B) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F WHERE Ip IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE IS 1 IN. (25 MM) OR LESS.
      (C) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F WHERE Ip 1.0, THE NOMINAL PIPE SIZE IS 3 IN. (80 MM) OR LESS.

MECHANICAL LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
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02	10/16/2026	BIDDING DOCUMENTS

MECHANICAL SYMBOLS AND ABBREV

STATE OF MISSOURI — RICHARD W. HALTEMAN — NUMBER PE-25112 — PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

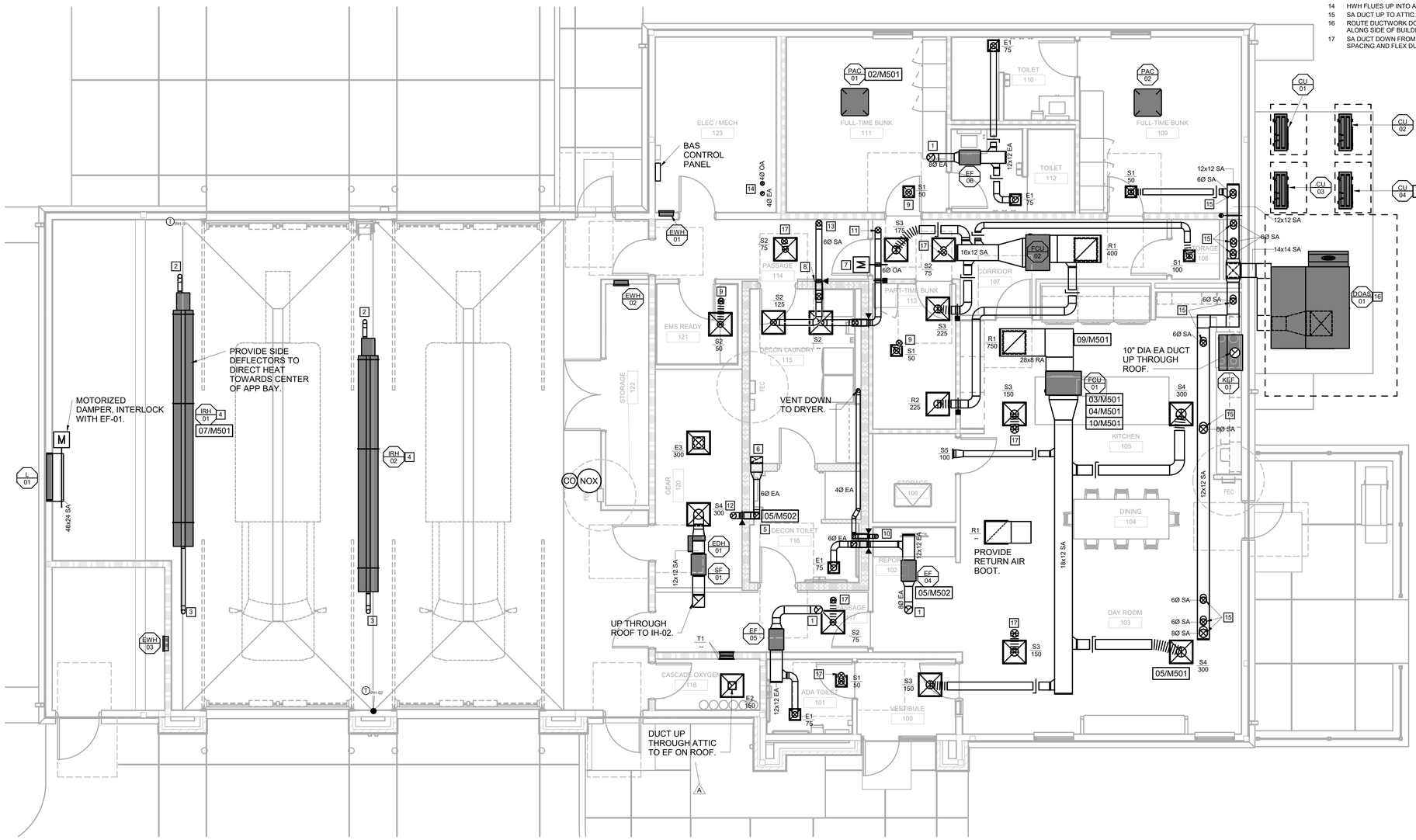
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SHEET M201 KEYED NOTES

#	
1	EA DUCT UP THROUGH ROOF TO GOOSENECK.
2	4" COMBUSTION AIR INLET THROUGH ROOF. TERMINATE WITH VENT CAP AT A MINIMUM 2'-0" ABOVE ROOF.
3	4" COMBUSTION AIR OUTLET THROUGH ROOF. TERMINATE WITH VENT CAP AT A MINIMUM 2'-0" ABOVE ROOF.
4	PROVIDE SHIELDS ENTIRE LENGTH OF HEATER ON BOTH SIDES OF HEATER. SHIELDS SHALL BE SECTIONALIZED TO ALLOW FOR FUTURE ADJUSTMENTS. MAXIMUM LENGTH SHALL BE 36".
5	DUCTS LEAVING STORM SHELTER TO TRANSITION TO SAME INSIDE DIAMETER ASTM A500 GRADE C STEEL PIPE ELBOW, DUCTWORK TO BE TRANSITIONED BACK TO GALVANIZED STEEL AFTER LEAVING STORM SHELTER AREA. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
6	12"X6" DUCT DOWN, STOPPING AT 36" ABOVE FINISHED FLOOR. PROVIDE A CLASS 1A LEAKAGE RATE VOLUME DAMPER IN VERTICAL DROP, WITHIN 6'-0" A.F.F. DAMPER WILL BE NORMALLY CLOSED. ENTIRE DUCT SHALL BE INSULATED WITH 1-1/2" FIBER GLASS BOARD INSULATION.
7	MOTORIZED DAMPER IN DUCTWORK. POWERED CLOSED AND SPRING OPEN FOR VENTILATION DURING STORM EVENT.
8	PROVIDE FIRE DAMPER FOR EACH DUCT AS IT PENETRATES CMU WALL.
9	SA DUCT DOWN FROM ATTIC SPACE. ROUTE DUCTWORK THROUGH JOIST SPACING AND FLEX DUCT AS NEEDED TO REACH AIR DEVICE. PROVIDE SMOKE DAMPERS WHERE DUCTS PENETRATE INTO PLENUM.
10	DRYER EXHAUST DUCT UP THROUGH ROOF TO VENT CAP.
11	OA DUCT FOR SS ROUTED UP THROUGH ATTIC SPACE TO ROOF.
12	OA DUCT FOR SS ROUTED UP THROUGH ATTIC SPACE TO ROOF.
13	SA DUCT DOWN FROM ATTIC SPACE. PROVIDE SMOKE DAMPERS WHERE DUCT PENETRATES PLENUM.
14	HWH FLUES UP INTO ATTIC SPACE.
15	SA DUCT UP TO ATTIC.
16	ROUTE DUCTWORK DOWN INTO PLENUM CURB, THROUGH SIDE OF CURB, ALONG SIDE OF BUILDING AND PENETRATE INTO CHASE.
17	SA DUCT DOWN FROM ATTIC SPACE. ROUTE DUCTWORK THROUGH JOIST SPACING AND FLEX DUCT AS NEEDED TO REACH AIR DEVICE.



1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"
0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
365 OLD MANCHESTER ROAD
PACIFIC, MO 63069

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	10/02/2026	PERMIT DOCUMENTS - REVISED
A	10/15/2026	PLAN REVIEW CORRECTIONS
	10/16/2026	BIDDING DOCUMENTS

MECHANICAL PLAN

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

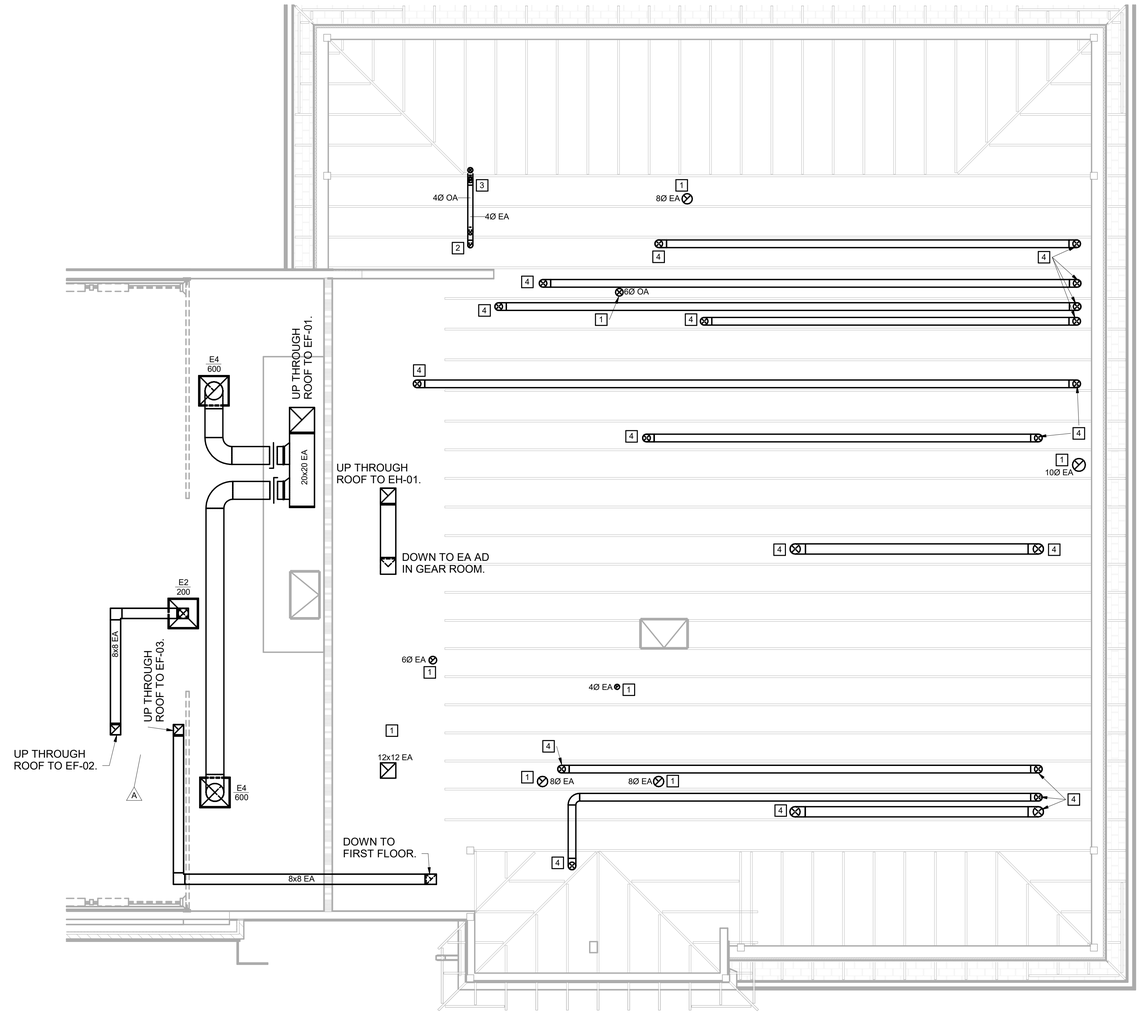
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SHEET M202 KEYED NOTES

#	
1	DUCTWORK CONTINUATION FROM FIRST FLOOR THROUGH ATTIC SPACE TO WORK.
2	HWH FLUES DOWN THROUGH PLENUM TO HWH.
3	ROUTE HWH FLUES THROUGH JOIST AND THROUGH ROOF. TERMINATE WITH CONCENTRIC VENT.
4	SA DUCTWORK DOWN TO PLENUM SPACE. SEE M201 FOR CONTINUATION.



1 MECHANICAL ATTIC PLAN

1/4" = 1'-0"

0 2'-0" 4'-0" 8'-0"

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

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MECHANICAL ATTIC PLAN

Project No.
25083

Sheet No.
M202

Date
10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

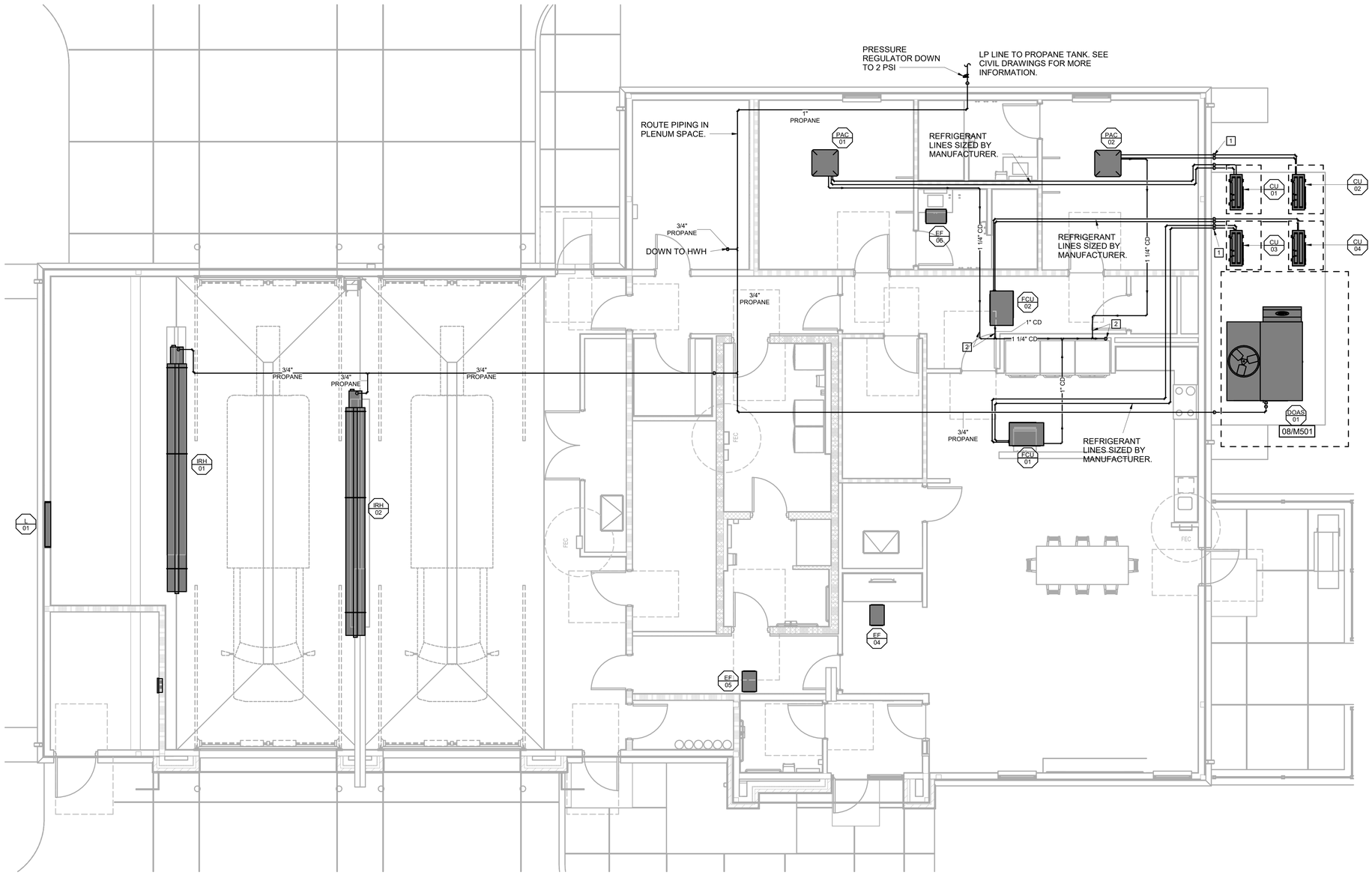
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SHEET M203 KEYED NOTES

1 ROUTE ALL REFRIGERANT PIPING UP EXTERIOR WALL AND INTO ATTIC SPACE. PIPING SHALL NOT ROUTE THROUGH ANY OCCUPIED SPACE. PIPING IS SHOWN SCHEMATICALLY. GROUP PIPING TOGETHER AS NEEDED.

2 ROUTE CONDENSATE PIPING TOGETHER FROM UNITS AND ROUTE TO TAIL PIECE ON TRAP UNDER SINK.



1 MECHANICAL PIPING FLOOR PLAN
1/4" = 1'-0"

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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MECHANICAL PIPING PLAN

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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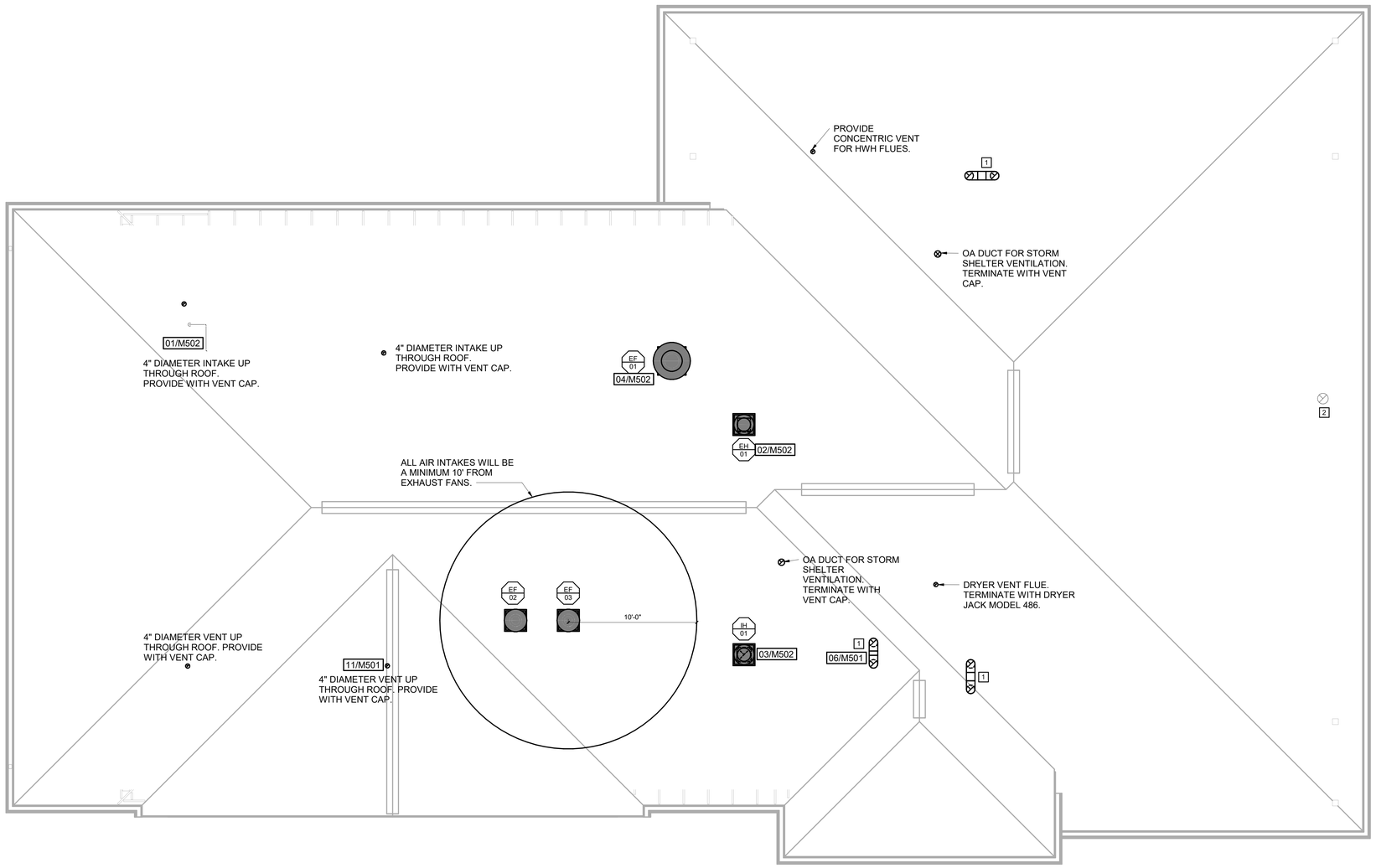
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SHEET M301 KEYED NOTES

1 8" DIAMETER EXHAUST DUCT. PROVIDE WITH GOOSENECK FITTING.

2 TERMINATE WITH MANUFACTURER'S LOW PROFILE ROOF JACK WITH 12" INLET. COLOR OF ROOF JACK TO MATCH ROOF.



1 MECHANICAL ROOF PLAN

1/4" = 1'-0"

0 2'-0" 4'-0" 8'-0"

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

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

MECHANICAL ROOF PLAN

Project No. 25083

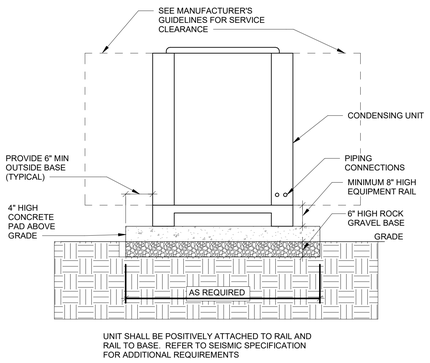
Sheet No. M301

Date 10/16/2026

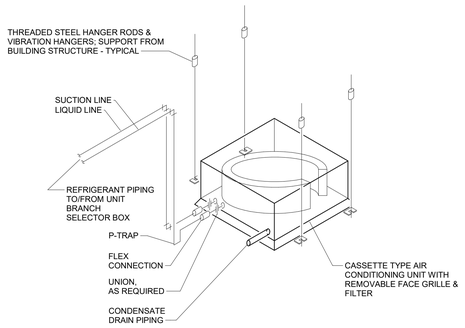
STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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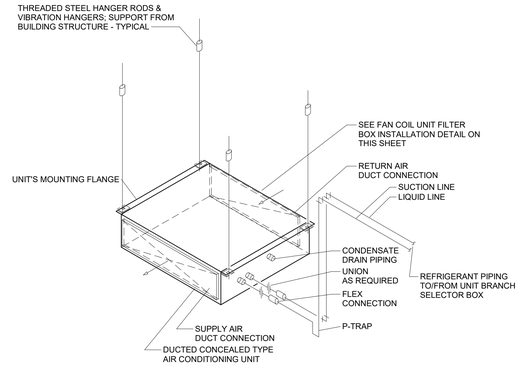
1 CONDENSING UNIT ON GRADE PAD DETAIL
N.T.S.



NOTES:

1. THIS DIAGRAM IS SCHEMATIC ONLY. EXACT ROUTING OF PIPING AND MOUNTING OF UNITS TO BE DETERMINED ON-SITE.
2. REFRIGERANT PIPING & FITTINGS SHALL BE PROCESSED PIPING SUITABLE FOR TIHS APPLICATION; DEOXIDIZED, DEHYDRATED & SEALED, TYPE ACR WITH BRAZED JOINTS. INSULATED SUCTION LINE WITH 25mm THICK ELASTOMER PIPE INSULATION.

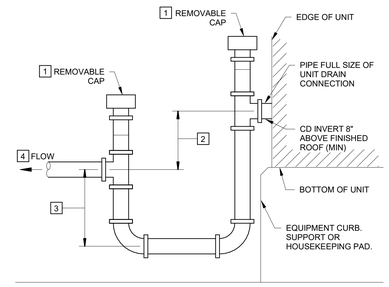
2 VRF CEILING CASSETTE TYPE AC UNIT DETAIL
N.T.S.



NOTES:

1. THIS DIAGRAM IS SCHEMATIC ONLY. EXACT ROUTING OF PIPING AND MOUNTING OF UNITS TO BE DETERMINED ON-SITE.
2. REFRIGERANT PIPING & FITTINGS SHALL BE PROCESSED PIPING SUITABLE FOR THIS APPLICATION; DEOXIDIZED, DEHYDRATED & SEALED, TYPE ACR WITH BRAZED JOINTS. INSULATED SUCTION LINE WITH 25mm THICK ELASTOMER PIPE INSULATION.

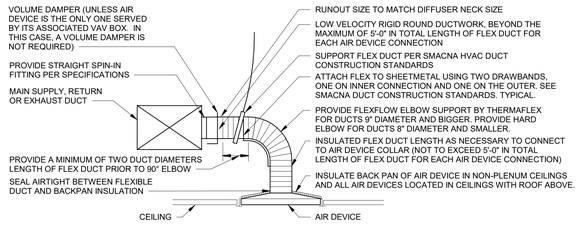
3 VRF DUCTED CONCEALED TYPE AC UNIT DETAIL
N.T.S.



NOTE:

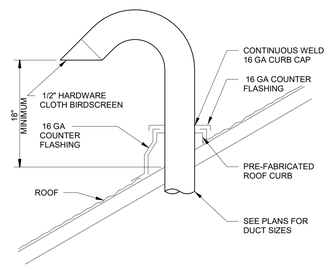
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
2. DRAW-THRU: SUBTRACT SCHEDULED E.S.P. FROM T.S.P. THEN ADD 1" BLOW-THRU: 1".
3. DRAW-THRU: 1/2 OF NOTE 2 DIMENSION BUT NOT LESS THAN 2" BLOW-THRU: SUBTRACT SCHEDULED E.S.P. FROM T.S.P. THEN ADD 1".
4. ROUTE TO NEAREST ROOF OR FLOOR DRAIN OR TO GRADE.

4 CONDENSATE DRAIN TRAP DETAIL
N.T.S.

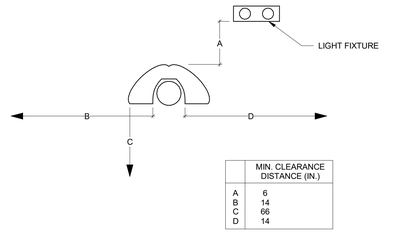


NOTE:
IF CEILING IS GYPSUM BOARD, PROVIDE OPPOSED BLADE DAMPER AT AIR DEVICE.

5 BRANCH TAKE-OFF TO AIR DEVICE DETAIL
N.T.S.



6 GOOSENECK THROUGH ROOF DETAIL
N.T.S.

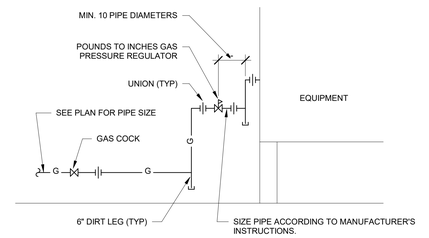


	MIN. CLEARANCE DISTANCE (IN.)
A	6
B	14
C	66
D	14

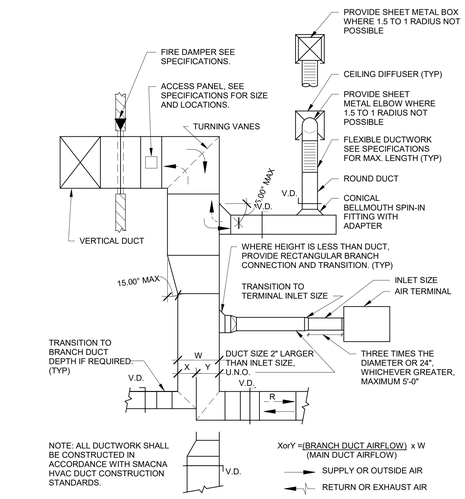
NOTES:

1. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR COMPLETE INSTALLATION DETAILS.
2. COORDINATE CLEARANCES WITH OVERHEAD DOORS, LIGHT FIXTURES AND CORD REELS.

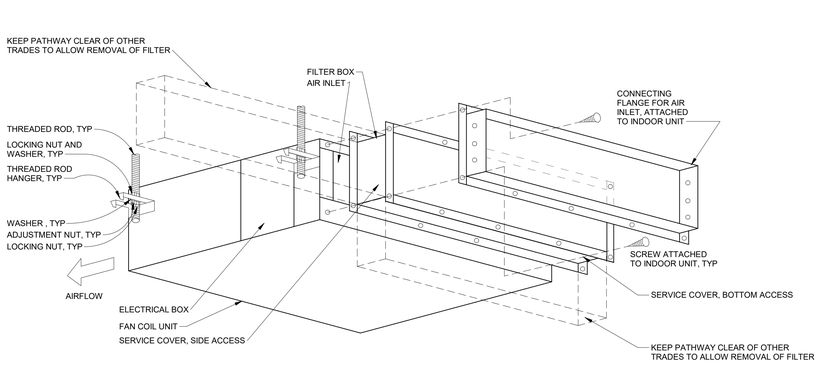
7 INFRARED HEATER INSTALLATION
N.T.S.



8 EQUIPMENT GAS PIPING CONNECTION
N.T.S.



9 TYPICAL DUCTWORK INSTALLATION DETAIL
N.T.S.

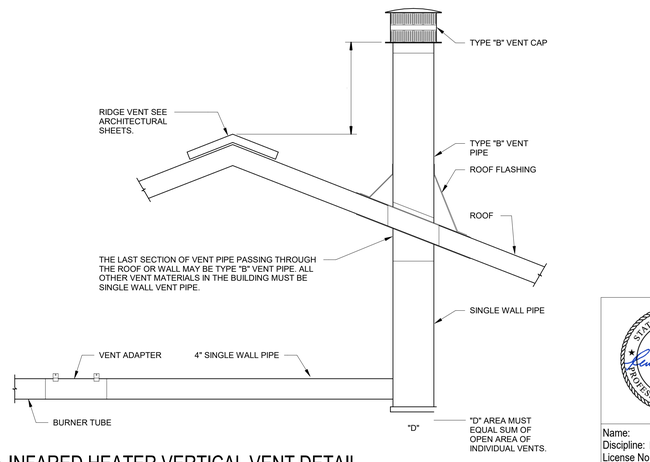


NOTES:

1. BEFORE MATING THE FILTER BOX TO THE INDOOR UNIT, PLACE A BEAD OF SEALANT ON THE DISCHARGE SIDE OF THE FILTER BOX AROUND THE OUTLET OPENING. KEEP THE BEAD CENTERLINE APPROXIMATELY 1/4" FROM THE OPENING EDGE AT BOTH ENDS AND AT A DISTANCE OF APPROXIMATELY 1/4" TO 1/2" FROM THE EDGE OF THE BOTTOM AND TOP SIDES OF THE OPENING.

2.FILTERS SHALL BE INSTALLED IN MULTIPLE SECTIONS TO ALLOW FOR REMOVAL THROUGH LAY-IN CEILING SUSPENSION GRID FRAMING.

10 FAN COIL UNIT FILTER BOX INSTALLATION
N.T.S.



11 INFARED HEATER VERTICAL VENT DETAIL
N.T.S.

Roy A. Mangan
MO Architect License No: A-6661
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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
VILLA RIDGE, MO 63089

No.	Revision	Date
		04/03/2026 PERMIT DOCUMENTS
		10/02/2026 PERMIT DOCUMENTS - REVISED
		10/16/2026 BIDDING DOCUMENTS

MECHANICAL DETAILS

Project No. 25083

Sheet No. M501

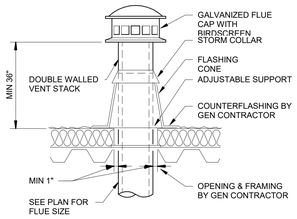
Date 10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

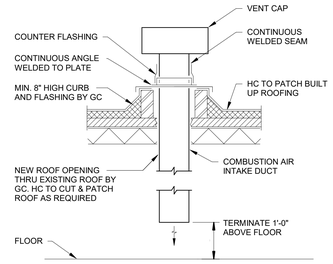
Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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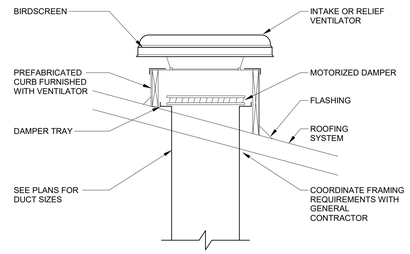
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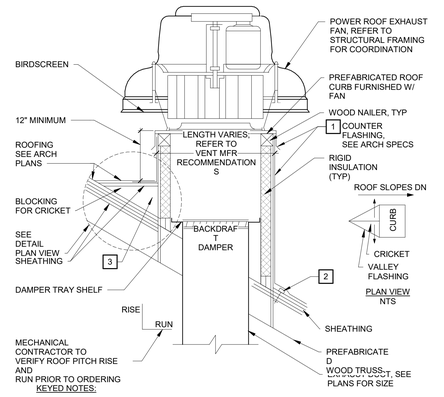
1 EXHAUST CONBUSTION FLUE THROUGH ROOF DETAIL
N.T.S.



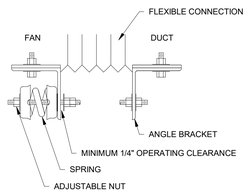
2 INTAKE COMBUSTION FLUE THROUGH ROOF DETAIL
N.T.S.



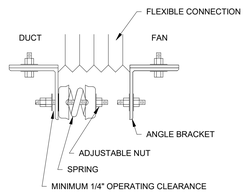
3 INTAKE OR RELIEF VENTILATOR DETAIL
N.T.S.



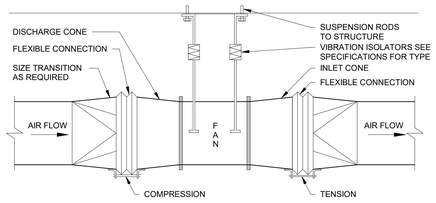
4 SLOPED ROOF MOUNTED EXHAUST FAN DETAIL
N.T.S.



TENSION



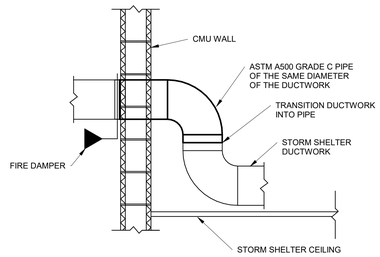
COMPRESSION



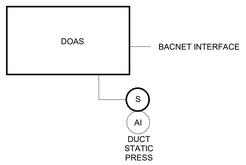
5 INLINE CENTRIFUGAL FAN INSTALLATION
N.T.S.

NOTES:

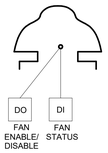
1. INSTALL VIBRATION ISOLATION SYSTEM (HANGERS, FLOOR MOUNTS, OR BASE WITH ISOLATORS) PER MANUFACTURER'S INSTRUCTION OF THRUST RESTRAINTS.
2. INSTALL ONE SET OF THRUST RESTRAINT BRACKETS, SPRINGS AND HARDWARE ON EACH SIDE OF UNIT AT THE DISCHARGE OUTLET (FOR THRUST IN TENSION) OR AT THE INLET (FOR THRUST IN COMPRESSION). NOTE THAT THRUST RESTRAINTS MUST BE LOCATED ALONG CENTERLINE OF DISCHARGE OR INLET. MAINTAIN CORRECT ORIENTATION WITH RESPECT TO DIRECTION OF AIRFLOW.
3. THE BRACKET OPPOSITE THE FAN MUST BE ATTACHED TO A STRUCTURAL COMPONENT THAT WILL WITHSTAND THE FAN THRUST.



6 DUCTWORK STORM SHELTER DETAIL
N.T.S.



7 DOAS UNIT - CONTROLS DIAGRAM
N.T.S.



9 APP BAY EXHAUST FAN - CONTROLS DIAGRAM
N.T.S.

EXHAUST FANS

Purge Mode
•Levels of CO/NOX are above the allowable limit
•All fans shall switch to Purge Mode as directed by the BAS.

•Fans shall energize and run continuously.

UnPurge Mode
•All fans shall switch to UnPurge as directed by the BAS.

•Fans shall de-energize.

CONTROLS SCHEDULE - EXHAUST FAN - CONSTANT VOLUME

	Hardware Points				Software Points				
Point Name	AI	AO	DI	DO	AV	BV	Sched	Trend	Alarm
Exhaust Fan Start/Stop				x				x	
Exhaust Fan Status			x					x	

Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/2024

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
VILLA RIDGE, MO 63089

No.	Revision	Date
	90% CD PERMIT DOCUMENTS	04/10/2026
	PERMIT DOCUMENTS - REVISED	10/02/2026
	BIDDING DOCUMENTS	10/16/2026

MECHANICAL DETAILS AND CONTROLS

Project No. 25083

Sheet No. M502

Date 10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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RADIANT HEATER SCHEDULE

UNIT NO.	BASIS OF DESIGN		INPUT CAPACITY (MBH)	TUBE LENGTH (FT)	TUBE DIAMETER (IN)	WEIGHT	ACCESSORIES	NOTES
	MANUFACTURER	MODEL						
IRH 01	ROBERT'S GORDON	CTH2V-40	40	20	4	95	1,2,3	1,2
IRH 02	ROBERT'S GORDON	CTH2V-40	40	20	4	95	1,2,3	1,2

NOTES:
1. PROVIDE WITH ROOF INTAKE VENT CAP AND EXHAUST DISCHARGE VENT CAP.
2. REFER TO EQUIPMENT DATA SCHEDULE FOR ELECTRICAL REQUIREMENTS.

ACCESSORIES:
1. ALUMINUM REFLECTORS AND END CAPS.
2. CHAIN HANGERS.
3. INSULATED SUB-BASE FOR WALL MOUNTED TEMPERATURE SENSOR.

KITCHEN HOOD SCHEDULE

UNIT NO.	BASIS OF DESIGN		EXHAUST CFM	ELECTRICAL DATA		NOTES
	MANUFACTURER	MODEL		V/PH/HZ	AMPS	
KEF 01	CAPTIVEAIRE	WRH-36	500	120/1/60	15	1,2,3,4,5,6,7,8

NOTES:
1. INTERLOCK HOOD WITH DOAS-01 SUPPLY FAN.
2. PROVIDE WITH INLINE EXHAUST FAN.
3. PROVIDE ROOF JACK WITH 10 INCH DUCT CONNECTION.
4. PROVIDE WITH ELECTRICAL DISCONNECT BOX.
5. PROVIDE WITH INTEGRAL LIGHTS, LIGHT SWITCH AND FAN SWITCH.
6. PROVIDE WITH INTEGRATED FIRE SUPPRESSION SYSTEM.
7. PROVIDE WITH INTEGRATED SYSTEM CONTROLS, GAS SHUTOFF AND MANUAL PULL STATION.
8. REFER TO EQUIPMENT DATA SCHEDULE FOR ADDITIONAL ELECTRICAL REQUIREMENTS.

LOUVER SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	SERVES	HEIGHT (in)	WIDTH (in)	MATERIAL	FINISH	MAX CFM	FREE AREA (SQFT)	FREE AREA VEL	MAX PD	NOTES
L 01	GREENHECK	ESD-635	APP BAY	20	30	ALUMINUM	MILL	1200	1.8	685	0.1	1,2

NOTES:
1.PROVIDE WITH BIRDSCREEN.
2.PROVIDE WITH 70% KYNAR FINISH, COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

FAN SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	AREA SERVED	TYPE	CFM	ESP (in wg)	FAN RPM	DRIVE TYPE	BHP	HP	V/PH/HZ	WEIGHT (LBS)	NOTES
EF 01	GREENHECK	GB-130	APP BAY	ROOF	1200	0.5	1,140	BELT	0.2	0.25	115/1/60	73	1,2,3,4,5
EF 02	GREENHECK	G-097-VG	APP BAY	ROOF	200	0.5	1,401	DIRECT	0.07	0.25	115/1/60	54	1,2,3,4,5,6
EF 03	GREENHECK	G-097-VG	OXYGEN ROOM	ROOF	150	0.5	1,243	DIRECT	0.05	0.25	115/1/60	54	1,2,3,4,5,6
EF 04	GREENHECK	SQ-097-VG	DECON TOILET	INLINE	75	0.5	1,227	DIRECT	0.05	0.25	115/1/60	50	1,2,6
EF 05	GREENHECK	SQ-097-VG	ADA TOILET	INLINE	75	0.5	1,227	DIRECT	0.05	0.25	115/1/60	50	1,2,6
EF 06	GREENHECK	SQ-097-VG	TOILET 110&112	INLINE	150	0.5	1,404	DIRECT	0.09	0.25	115/1/60	50	1,2,6
SF 01	GREENHECK	SQ-98-VG	GEAR ROOM	INLINE	300	0.5	1,304	DIRECT	0.09	0.25	115/1/60	50	1,2,6

NOTES:
1.PROVIDE WITH SOLID STATE SPEED CONTROL
2.PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.
3.PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
4.PROVIDE WITH BIRDSCREEN.
5.PROVIDE WITH ROOF CURB.
6.FAN TO RUN CONTINUOUSLY.

EXHAUST HOOD SCHEDULE

PLAN MARK	MANUFACTURER	MODEL S	DIAMETER (in)	HEIGHT (in)	THROAT SIZE (in)	THROAT VELOCITY	THROAT AREA (FT^2)	MAX CFM	MAX PD (in)	WEIGHT (Lbs)	NOTES
EH 01	GREENHECK	GRSI-10	10	20	1	525	1	300	0.05	24	1

NOTES:
1. PROVIDE WITH SLOPED ROOF CURB, BIRD SCREEN, AND GRAVITY BACKDRAFT DAMPER.

INTAKE HOOD SCHEDULE

PLAN MARK	MANUFACTURER	MODELS	LENGTH (in)	WIDTH (in)	HEIGHT (in)	DIAMETER (in)	THROAT VELOCITY	THROAT AREA (FT^2)	MAX CFM	MAX PD	WEIGHT	NOTES
IH 01	GREENHECK	GRSI-10	-	-	20	10	525	1	300	0.1	24	1

NOTES:
1. PROVIDE WITH SLOPED ROOF CURB AND BIRD SCREEN.

SPLIT AIR-CONDITIONING UNIT SCHEDULE - INDOOR ONLY

UNIT NO.	BASIS OF DESIGN		CONDENSING UNIT	SUPPLY CFM	ESP (IN WC)	CAPACITY (MBH)		ELECTRICAL CHARACTERISTICS		WEIGHT	NOTES
	MANUFACTURER	MODEL				COOLING	HEATING	AMPS	V/PH/HZ		
FCU 01	LG	ZRNU243MAAA	CU-03	705	0.5	24.2	27.3	1.7	208/1/60	66	1
FCU 02	LG	KNUJB12A	CU-04	495	0.5	14.0	17.8	1.7	208/1/60	62	1

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH AND CONDENSATE PUMP.

ELECTRIC HEATING COIL SCHEDULE

UNIT NO.	BASIS OF DESIGN		AREA SERVED	DUCT SIZE	AIR FLOW (CFM)	TEMP RISE	ELECTRICAL CHARACTERISTICS				NOTES
	MANUFACTURER	MODEL					KW	AMPS	CONTROLS	V/PH/HZ	
EDH 01	NEPTRONIC	DF CI00H	GEAR ROOM	12X12	350	63	7.0	29.2	SCR	208/1/60	1

1. PROVIDE WITH DISCONNECT SWITCH, AIRFLOW SWITCH AND ROOM THERMOSTAT.

MECHANICAL EQUIPMENT VIBRATION ISOLATION SCHEDULE

Mark	ISOLATOR TYPE	MINIMUM DEFLECTION (IN)
CU 01	TYPE 1 - ELASTOMERIC PAD	0.25
CU 02	TYPE 1 - ELASTOMERIC PAD	0.25
CU 03	TYPE 1 - ELASTOMERIC PAD	0.25
CU 04	TYPE 1 - ELASTOMERIC PAD	0.25
DOAS 01	TYPE 4 - HOUSED SPRING MOUNT - RESTRAINED	0.75
EF 01	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
EF 02	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
EF 03	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
EF 04	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
EF 05	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
EF 06	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
FCU 01	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
FCU 02	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
PAC 01	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
PAC 02	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75
SF 01	TYPE 3 - SPRING ISOLATOR - VERTICAL STOP	0.75

100% OUTSIDE AIR UNIT SCHEDULE

UNIT NO.	CFM	ESP (IN. WC)	COOLING COIL SECTION				HOT GAS REHEAT CAPACITY MBH	GAS HEATING SECTION		AHU ELECTRICAL DATA				BASIS OF DESIGN		WEIGHT (LBS)	NOTES
			EAT (°F) DB/WB	LAT (°F) DB/WB @ COIL	TOTAL MBH	SENSIBLE MBH		EAT/LAT (°F)	INPUT MBH	OUTPUT MBH	V/PH/HZ	FLA	MCA	MOP	MANUFACTURER	MODEL		
DOAS 01	850	1.5	100.0/78.0	47.7/46.7	82.6	47.5	25.2	0.0/79.2	90.0	72.9	208/3/60	37	44	70	AAON	RNA-008-A-A-8	1213	1,2,3,4,5,6,7,8

NOTES:
1. INTERLOCK FAN SPEED WITH KITCHEN HOOD. ALL SCHEDULED PERFORMANCE DATA IS BASED UP WHEN HOOD IS ON. CFM TO REDUCE TO 550 CFM WHEN KITCHEN HOOD IS OFF.
2. PROVIDE WITH MODULATING HOT GAS REHEAT.
3. PROVIDE UNITS WITH MINIMUM 8" TALL SEISMIC VIBRATION PLENUM CURB.
4. PROVIDE WITH SECONDARY DRAIN PAN WITH WATER SENSOR TO SHUT-DOWN UNIT AND ALARM AT CONTROL PANEL.
5. PROVIDE LIQUID LINE SOLENOID VALVES AND SIGHT GLASSES AT THE AHU EVAPORATOR COIL.
6. INSTALL CAPILLARY TUBE BETWEEN REHEAT LINE AND SUCTION LINE PER MANUFACTURER'S RECOMMENDATION.
7. PROVIDE MINIMUM 4.3:1 TURNDOWN ON PROPANE GAS HEATER.
8. PROVIDE WITH DISCONNECT.

AIR COOLED CONDENSING UNIT SCHEDULE

UNIT NO.	BASIS OF DESIGN		SERVES	AMBIENT TEMP DB (°F)	REFRIGERANT TYPE	EER @ OPERATING CONDITIONS	ELECTRICAL			UNIT WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL					MCA	MOCP	V/PH/HZ		
CU 01	LG	KUSXB121A	PAC-01	95.0	R-32	13.0	13.4	15.0	208/1/60	75	1,2,3,4,5
CU 02	LG	KUSXB121A	PAC-02	95.0	R-32	13.0	13.4	15.0	208/1/60	75	1,2,3,4,5
CU 03	LG	ZRUN024GSS0	FCU-01	95.0	R-32	14.8	26.4	30.0	208/1/60	148	1,2,3,4,5
CU 04	LG	KUSXB121A	FCU-02	95.0	R-32	13.0	13.4	15.0	208/1/60	75	1,2,3,4,5

NOTES:
1. MOUNT ON 8" RAIL WITH NEOPRENE ISOLATORS.
2. LOW AMBIENT KIT.
3. COOLING CAPACITY BASE UPON 95 DEGF DB AND 75 DEGF WB OUTDOOR TEMPERATURES.
4. PROVIDE WITH ALL ACCESSORIES AND CONTROLS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. PROVIDE WITH HAIL GUARDS.
6. PROVIDE WITH DISCONNECT.

PAC UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	LOCATION	AIRFLOW CFM	REQUIRED COOLING CAPACITY		REQUIRED HEATING CAPACITY (MBH)	ELEC V/HZ/PH	NOTES
					TOTAL COOLING (MBH)	SENSIBLE CAPACITY (MBH)			
PAC 01	LG	KNUDB121A	FULL TIME BUNK 111	335	11.1	8.0	14.0	FROM CU-01	1,2
PAC 02	LG	KNUDB121A	FULL TIME BUNK 109	335	11.1	8.0	14.0	FROM CU-02	1,2

NOTES:
1. POWER FROM ASSOCIATED CONDENSING UNIT.
2. PROVIDE WITH CONDENSATE PUMP KIT.

AIR DEVICE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	DESCRIPTION	MAX FLOW CFM	CONNECTION SIZE		MODULE SIZE	MAX NC	MATERIAL	BORDER TYPE	MAX PRESSURE DROP IN-WG	FINISH	NOTES
					WIDTH OR DIAMETER	LENGTH							
S1	TITUS	OMNI	SQUARE PLAQUE	100	6"		12X12	25	STEEL	LAY-IN	0.1	BWE	1
S2	TITUS	OMNI	SQUARE PLAQUE	125	6"		24X24	25	STEEL	LAY-IN	0.1	BWE	1
S3	TITUS	OMNI	SQUARE PLAQUE	235	8"		24X24	25	STEEL	LAY-IN	0.1	BWE	1
S4	TITUS	OMNI	SQUARE PLAQUE	380	10"		24x24	25	STEEL	LAY-IN	0.1	BWE	1
S5	TITUS	300RS	LOUVERED SUPPLY	250	8"	6"	9.75X7.75	25	STEEL	SURFACE	0.1	BWE	
R1	TITUS	PAR	PERFORATED CEILING DIFFUSERS	1000	22"	22"	23.75X23.75	25	STEEL	LAY-IN	0.1	BWE	2
R2	TITUS	350RS	LOUVERED RETURN	250	8"		24X24	25	STEEL	LAY-IN	0.1	BWE	1
E1	TITUS	350RS	LOUVERED RETURN	250	6"		12X12	25	STEEL	LAY-IN	0.1	BWE	1
E2	TITUS	350RS	LOUVERED EXHAUST	250	8"		24X24	25	STEEL	LAY-IN	0.1	BWE	1
E3	TITUS	350RS	LOUVERED EXHAUST	380	10"		24x24	25	STEEL	LAY-IN	0.1	BWE	1
E4	TITUS	350RS	LOUVERED EXHAUST	750	14"		24X24	25	STEEL	SURFACE	0.1	BWE	1
T1	TITUS	350RS	LOUVERED TRANSFER	800	14"	14"	15.75X15.75	25	STEEL	SURFACE	0.1	BWE	

FINISH
STD-STANDARD
BWE-BAKED WHITE ENAMEL
BLK-POWDER COAT BLACK
PC-PRIME COAT, MATCH WALL COLOR
ENL-BAKED ENAMEL, COLOR BY ARCHITECT
SP-SPECIAL (BY NOTE)
CA-CLEAR ANODIZED

NOTES:
1. VOLUME CONTROL DAMPER SHALL BE INSTALLED IN BRANCH DUCTWORK UNLESS NOTED OTHERWISE INDICATED ON PLANS. SEE PLANS FOR LOCATION AND ACCESSIBILITY.
2. PROVIDE WITH RETURN AIR BOOT. REFER TO DETAIL ON SHEET M502 FOR REQUIREMENTS.

ELECTRIC WALL HEATER SCHEDULE

UNIT NO.	BASIS OF DESIGN		AREA SERVED	CAPACITY (KW)	AIRFLOW (CFM)	ELECTRICAL CHARACTERISTICS		WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL				V/PH/HZ	AMPS		
EWH 01	RAYWALL	AFA840D	ELEC/MECH 123	4	175	208/1/60	19.2	26	1
EWH 02	RAYWALL	AFA840D	STORAGE 122	4	175	208/1/60	19.2	26	1
EWH 03	RAYWALL	AFA840D	STORAGE 122	4	175	208/1/60	19.2	26	1

NOTES:
1. PROVIDE WITH UNIT MOUNTED THERMOSTAT, RECESSED TRIM KIT AND DISCONNECT SWITCH.

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EXPIRATION DATE: DECEMBER 31, 2026

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

MECHANICAL SCHEDULES

Project No. 25083

Sheet No. M601

Date 10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 1" 6" 3" 0
SCALE: 1" = 1'-0" 2" 1" 6" 3" 0
SCALE: 3/4" = 1'-0" 4" 2" 1" 0
SCALE: 1/2" = 1'-0" 4" 2" 1" 0
SCALE: 3/8" = 1'-0" 8" 4" 2" 0
SCALE: 1/4" = 1'-0" 16" 8" 4" 0
SCALE: 1/8" = 1'-0" 24" 16" 8" 0
SCALE: 3/32" = 1'-0" 32" 16" 8" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0

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PLUMBING SYSTEMS:

AV	ACID RESISTANT VENT
AW	ACID RESISTANT WASTE LINE
DIR	DEIONIZED WATER RETURN PIPING
DIS	DEIONIZED WATER SUPPLY PIPING
DCW	DOMESTIC COLD WATER (DCW)
DHW	DOMESTIC HOT WATER (DHW)
DHWR	DOMESTIC HOT WATER RETURN (DHWR)
SCW	DOMESTIC SOFT COLD WATER
GW	GREASE WASTE
D	INDIRECT DRAIN OR CONDENSATE
G	NATURAL GAS
NP	NON POTABLE WATER
OST	OVERFLOW DRAIN
LP	PROPANE (PSI)
RO	REVERSE OSMOSIS WATER
S	SANITARY PIPING
S/O/W	SAND/OIL WASTE
ST	STORM DRAIN
TW	TEMPERED WATER
TWR	TEMPERED WATER RECIRCULATING
V	VENT (V)
DT	DRAIN TILE
	AUTOMATIC AIR VENT
	BACKFLOW PREVENTER
	CHECK VALVE
	BALANCING VALVE (CIRCUIT SETTER)
	FLOW ARROW/DIRECTION
	FLOW CONTROL VALVE
	PRESSURE GAUGE AND COCK
	PRESSURE REDUCING VALVE / PRESSURE REGULATING VALVE
	REDUCER
	WATER HAMMER ARRESTOR
	SHUT OFF VALVE
	SOLENOID VALVE
	STRAINER
	TEMP & PRESSURE RELIEF VALVE
	TEST PLUG
	THERMOMETER
	UNION (DIELECTRIC)
	(DASHED) INDICATED PIPING TO BE REMOVED
	CONNECTION TO EXISTING
EQ-1	EQUIPMENT NUMBER
P / 1	INDICATES PLUMBING RISER
1	KITCHEN EQUIPMENT NUMBER
1	REVISION DELTA
#	KEYED NOTE
2	DEMOLITION KEYED NOTE
	ELBOW DOWN
	ELBOW UP
	TEE DOWN
	TEE UP
	P-TRAP

PLUMBING LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

ABBREVIATIONS:

AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT COMPLIANT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
AP	ACCESS PANEL
AV	ACID RESISTANT VENT
AVTR	ACID RESISTANT VENT THRU ROOF
AW	ACID RESISTANT WASTE
BFG	BELOW FINISHED GRADE
BFP	BACKFLOW PREVENTER
BGB	BOTTOM OF GRADE BEAM
BM	BEAM
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF SLAB
BOW	BOTTOM OF WALL
BOT	BOTTOM
BT	BATHTUB
CBV	CALIBRATED BALANCING VALVE
CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
CV	CHECK VALVE
CW	CITY WATER
DCW	DOMESTIC COLD WATER
DD	DECK DRAIN
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DUCTILE IRON
DIA	DIAMETER
DIR	DEIONIZED WATER RETURN
DIS	DEIONIZED WATER SUPPLY
DN	DOWN
DR	DRAIN
DS	DOWNSPOUT
DTL	DETAIL
DWG(S)	DRAWING(S)
DWR	DISTILLED WATER RETURN
DWS	DISTILLED WATER SUPPLY
EC	ELECTRICAL CONTRACTOR - DIVISION 26
ELEC	ELECTRIC
ELEV	ELEVATION
EOR	ENGINEER OF RECORD
EQ	EQUAL
EXIST, EX	EXISTING
FA	FROM ABOVE
FB	FROM BELOW
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FH	FIRE HYDRANT
FIN	FINISHED
FS	FLOOR / FIRE LINE
FP	FIRE PUMP
FPC	FIRE PROTECTION CONTRACTOR - DIVISION 21
FL	FLOOR / FLOW LINE
FT	FEET
FT-HD	FEET IN HEAD
FVC	FIRE VALVE CABINET
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
H	HEIGHT
HB	HOSE BIBB
HD	HUB DRAIN
HE	HOSE END
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HOUSE TRAP
HW	HOT WATER

ABBREVIATIONS:

HWR	HOT WATER RETURN
HZ	HERTZ
IN	INCH/INCHES
IE	INVERT ELEVATION
INV	INVERT
JP	JOCKEY PUMP
L	LENGTH
LVL	LEVEL
MAX	MAXIMUM
MB	MOP BASIN
MC	MECHANICAL CONTRACTOR - DIVISION 23
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OB	OUTLET BOX
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
ORD	OVERFLOW ROOF DRAIN
OST	OVERFLOW STORM
PC	PLUMBING CONTRACTOR - DIVISION 22
PH	PHASE
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE / PRESSURE REGULATING VALVE
PSI	PSI ABSOLUTE
PSIA	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE IN GAUGE
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE / REFLECTED CEILING PLAN
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY
SCW	SOFT COLD WATER
SF	SQUARE FOOT
SHT	SHEET
SOL	SOLENOID
SOV	SHUTOFF VALVE
SP	SUMP PUMP
SQ	SQUARE
ST	STORM
STL	STEEL
STR	SOIL STACK THRU ROOF
SW	STREET WASHER
T&P	TEMPERATURE & PRESSURE
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOT	TOTAL
TPC	TOP OF PIER CAP
TW	TEMPERED WATER
TYP	TYPICAL
VL	VALVE
VB	VACUUM BREAKER
V	VENT
VTR	VENT THRU ROOF
VERT	VERTICAL
VCP	VITREOUS CLAY PIPE
VOL	VOLUME
WB	WASHER BOX
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WT	WEIGHT
W/	WITH
W/O	WITH / WITHOUT
YD	YARD DRAIN

GENERAL NOTES:

1. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE PLUMBING WORK, COORDINATION BETWEEN OTHER TRADES IS OF THE UTMOST IMPORTANCE.
2. DRAWINGS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF FIXTURES, EQUIPMENT AND PIPING SYSTEMS. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKES INTO ACCOUNT MANY DESIGN CONSIDERATIONS, SO FAR AS PRACTICAL, INSTALL PIPING AS INDICATED. THE CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
3. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, AND VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF PLUMBING PIPING.
4. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF PIPING, FIXTURES, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. EXTREME ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS. THE CONTRACTOR SHALL FURNISH A COMPLETE AND CODE COMPLYING SYSTEM.
5. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THE CONTRACTOR SHALL OBTAIN THE ENGINEERS WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THE CONTRACTOR SHALL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
6. DETAILS SHOWN IN THESE DRAWINGS APPLY TO INSTALLATIONS INDICATED REGARDLESS AS TO IF THEY ARE SPECIFICALLY REFERENCED ELSE WHERE IN THE DRAWING SET. ANY QUESTIONS ON THEIR APPLICABILITY SHALL BE SENT TO THE ENGINEER PRIOR TO BIDDING.

PLUMBING SYSTEM COMPONENTS EARTHQUAKE LOAD RESISTANCE

OCCUPANCY CATEGORY (IV) — **SEISMIC DESIGN CATEGORY (D)**

LISTING OF EQUIPMENT & SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY-SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
					ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL SEPARATE PERMIT AND PLANS	
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION		
OTHER GENERAL EQUIPMENT & SYSTEM COMPONENTS Ip=1.0							
WASTE PIPING		X		X			
VENT PIPING		X		X			
WATER PIPING	X		X				
STORM PIPING		X		X			
FLOOR MOUNTED: WATER HEATER, PUMPS > 400 LBS		X		X			
FLOOR MOUNTED: WATER HEATER, PUMPS <= 400 LBS		X		X			
SUSPENDED FROM STRUCTURE: WATER HEATER, PUMPS >20 LBS		X		X			
SUSPENDED FROM STRUCTURE: WATER HEATER, PUMPS <= 20 LBS	X		X				
		X		X			

EXPLANATORY NOTES:
1. PLANS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THIS PROJECT ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE AHJ A MINIMUM OF TWO WEEKS PRIOR TO THE PLANNED INSTALLATION TO ALLOW FOR PLAN REVIEW AND DISTRIBUTION TO THE INSPECTOR. ADDITIONAL TIME MAY BE NEEDED IF SUCH SUBMISSIONS ARE DEFICIENT.
2. SWAY BRACING REQUIRED FOR ITEMS SUSPENDED FROM STRUCTURE, UNLESS EXEMPT.
3. ANCHORAGE & BRACING CONTRACTOR SHALL REFER TO SPECIFICATIONS ON SEISMIC ANCHORAGE & SWAY BRACING.
4. ALL SEISMIC SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE CODE REVIEWER.
5. CONTRACTOR SHALL ADHERE TO REQUIREMENTS FOR EXEMPTION, WHERE NOTED, OR PROVIDE SEISMIC BRACING DESIGNED BY A QUALIFIED ENGINEER LICENSED IN THE PROJECT'S STATE.

EXEMPTION NOTES:
1. SEISMIC DESIGN CATEGORY B - ASCE 7-22 TABLE 13.1-1
2. SEISMIC DESIGN CATEGORY C, THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE. ASCE 7-22 TABLE 13.1-1.
3. SEISMIC DESIGN CATEGORY C, D, E, OR F AND THE COMPONENT WEIGHS 20 LBS OR LESS. ASCE 7-22 TABLE 13.1-1.
4. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip = 1.0, AND THE CENTER OF MASS IS 4 FT OR LESS ABOVE THE FLOOR, AND THE COMPONENT WEIGHS 400LBS OR LESS, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. ASCE 7-22 TABLE 13.1-1.
5. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip = 1.0, AND FOR DISTRIBUTION SYSTEMS THE OPERATING WEIGHT OF THE SYSTEM IS SLB/FT OR LESS. ASCE 7-22 TABLE 13.1-1.
6. PIPING SYSTEMS WHERE FLEXIBLE CONNECTIONS, EXPANSION LOOPS, OR OTHER ASSEMBLIES ARE PROVIDED TO ACCOMMODATE THE RELATIVE DISPLACEMENT BETWEEN COMPONENT AND PIPING, WHERE THE PIPING SYSTEM IS POSITIVELY ATTACHED TO THE STRUCTURE, AND WHERE ONE OF THE FOLLOWING APPLY (ASCE 7-22 SECTION 13.6.7.3):
   6.1 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.375 IN. (10 MM) DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. (305 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE GREATER SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH I P THAN 1.0, NO SINGLE PIPE EXCEEDS THE LIMITS SET FORTH IN ITEMS 6.4A, 6.4B, OR 6.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS;
   6.2 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.5 IN. (13 MM) DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. (305 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH I P GREATER THAN 1.0, NO SINGLE PIPE EXCEEDS THE DIAMETER LIMITS SET FORTH IN ITEMS 6.4A, 6.4B, OR 6.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 200 LB (890 N) OR LESS;
   6.3 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.5 IN. (13 MM) DIAMETER ROD HANGERS NOT EXCEEDING 24 IN. (610 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE GREATER SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH I P THAN 1.0, NO SINGLE PIPE EXCEEDS THE DIAMETER LIMITS SET FORTH IN ITEMS 6.4A, 6.4B, OR 6.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS;
   6.4 PIPING IS SUPPORTED BY ROD HANGERS AND PROVISIONS ARE MADE TO AVOID IMPACT WITH OTHER STRUCTURAL OR NONSTRUCTURAL COMPONENTS OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT; OR PIPES ARE SUPPORTED BY INDIVIDUAL ROD HANGERS 0.375 IN. (10 MM) OR 0.5 IN. (13 MM) IN DIAMETER, WHERE EACH HANGER IN THE PIPE RUN IS 12 IN. (305 MM) OR LESS IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE HANGER IS 50 LB (220 N) OR LESS. IN ADDITION, THE FOLLOWING LIMITATIONS ON THE SIZE OF PIPING SHALL BE OBSERVED:
      (A) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C WHERE Ip IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE SHALL P BE 2 IN. (50 MM) OR LESS.
      (B) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F WHERE Ip IS GREATER THAN 1.0, THE NOMINAL PIPE P SIZE SHALL BE 1 IN. (25 MM) OR LESS.
      (C) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F WHERE Ip IS 1.0, THE NOMINAL PIPE SIZE SHALL BE 3 P IN. (80 MM) OR LESS.

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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD — PACIFIC, MO 63069

No.	Revision	Date
	PERMIT DOCUMENTS	04/15/2026
	PERMIT DOCUMENTS - REVISED	10/02/2026
	BIDDING DOCUMENTS	10/16/2026

PLUMBING SYMBOLS AND ABBREV.

Project No. 25083

Sheet No. P001

Date 10/16/2026

STATE OF MISSOURI — RICHARD W. HALTEMAN — NUMBER PE-25112 — PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

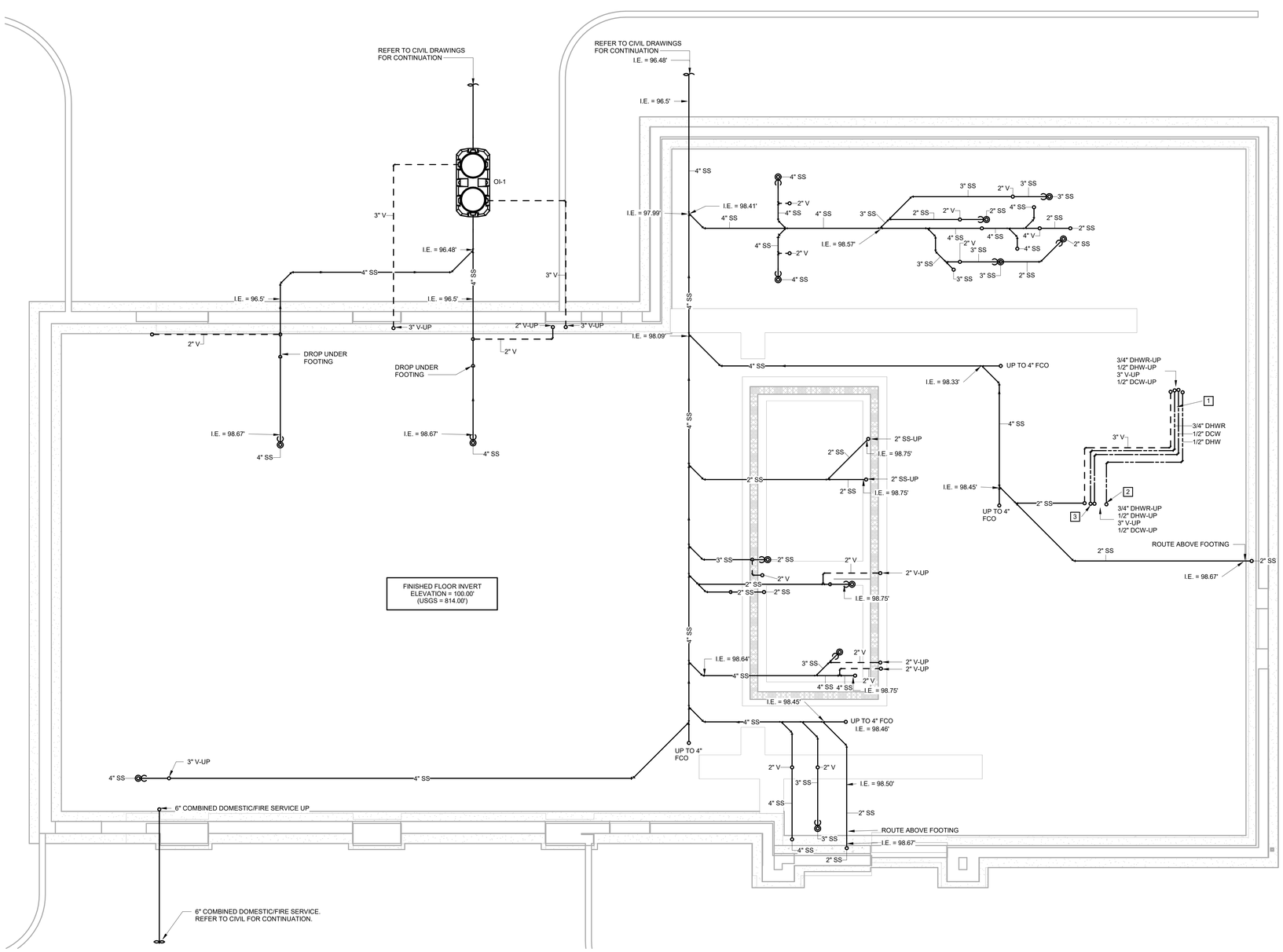
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SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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Autodesk Docs://25083200 - Meramac Ambulance Houses/25083200_Meramac-House-4_MEP _25.rvt

SHEET P200 KEYED NOTES

1. NO FITTINGS ARE ALLOWED IN BELOW SLAB DOMESTIC PIPING. TYPE K FELXIBLE COPPER TUBING TO BE USED. FLEXIBLE TUBING SHALL EXTEND TO ABOVE SLAB BEFORE FITTINGS CAN BE USED.
2. EXTEND 1/2" DHW TO DISHWASHER. REFER TO P201 FOR CONTINUATION.
3. CONNECT HOT WATER RETURN PIPING TO HOT WATER PIPING ABOVE GRADE.



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

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

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	10/16/2026	BIDDING DOCUMENTS

PLUMBING UNDERFLOOR PLAN

Project No. 25083

Sheet No. P200

Date 10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

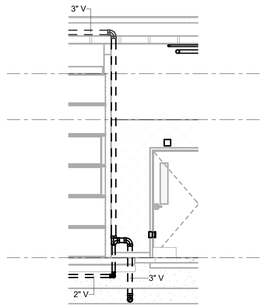
Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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SHEET P201 KEYED NOTES

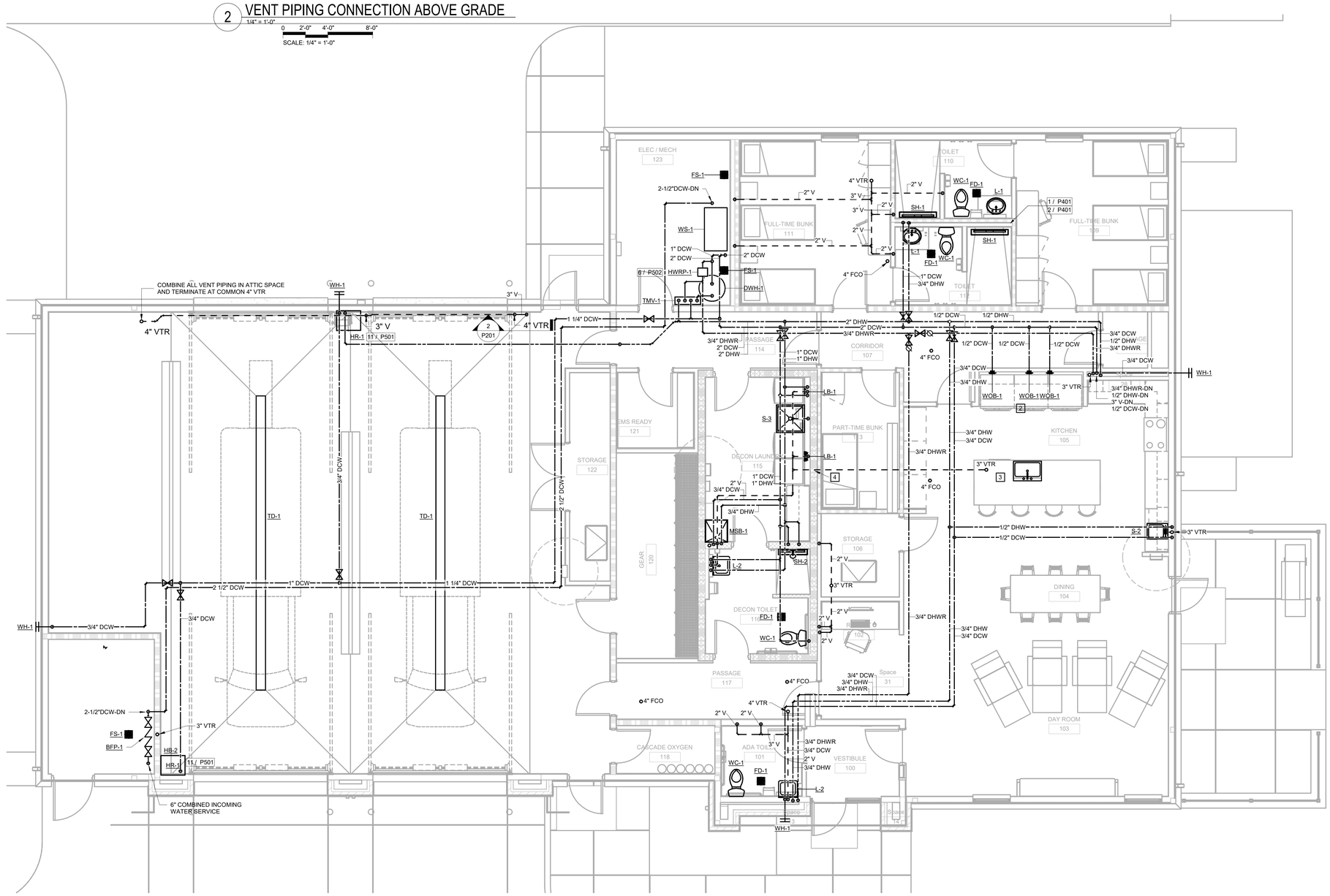
#	
2	INSTALL WATER BOX (WOB-1) BEHIND EACH REFRIGERATOR 18" AFF.
3	INSTALL WASTE LINE FROM DISHWASHER BACK TO SINK. CONNECT DISPOSAL PER MANUFACTURER'S RECOMMENDATIONS WITH AIR GAP FITTING THROUGH COUNTERTOP ON WASTE LINE.
4	COORDINATE WITH STRUCTURAL DRAWINGS FOR LOCATION AND SIZE OF STEEL PIPE PENETRATION PROTECTION.



2 VENT PIPING CONNECTION ABOVE GRADE

1/4" = 1'-0"

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



1 PLUMBING FLOOR PLAN

1/4" = 1'-0"

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

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/03/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

PLUMBING PLAN

Project No. 25083

Sheet No. P201

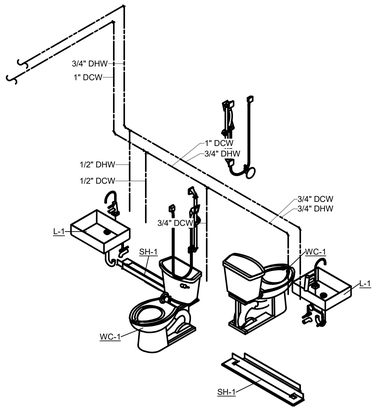
Date 10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

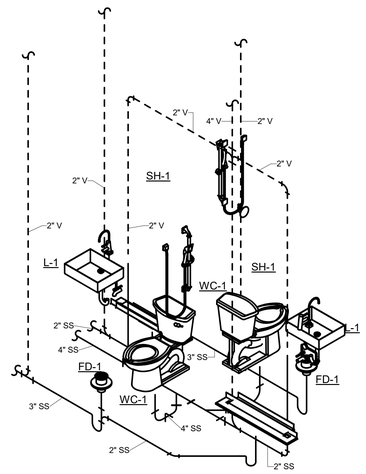
Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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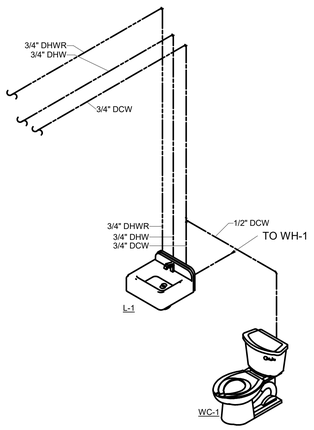
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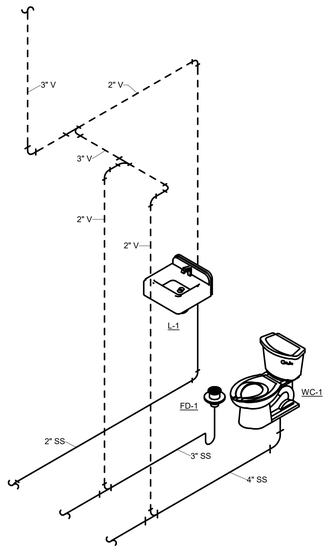
1 TOILET 110 & 112 RISER - DOMESTIC
N.T.S.



2 TOILET 110 & 112 RISER - SANITARY
N.T.S.



3 ADA TOILET 101 RISER - DOMESTIC
N.T.S.



4 ADA TOILET 101 RISER - SANITARY
N.T.S.

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PLUMBING RISER DIAGRAMS

Project No.
25083

Sheet No.
P401

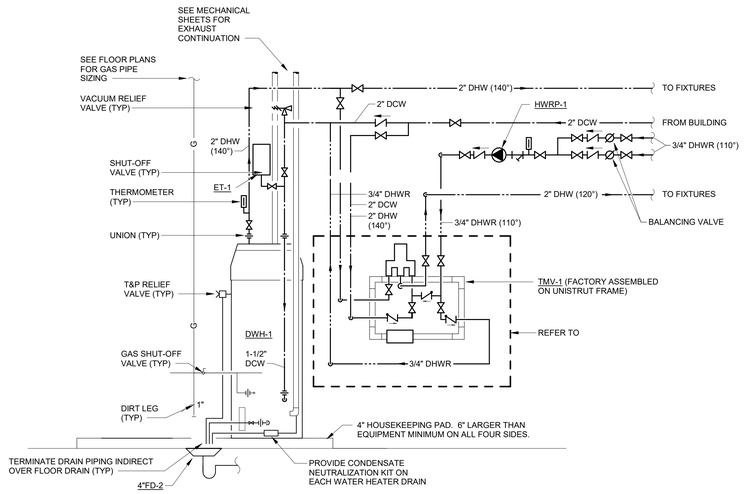
Date
10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

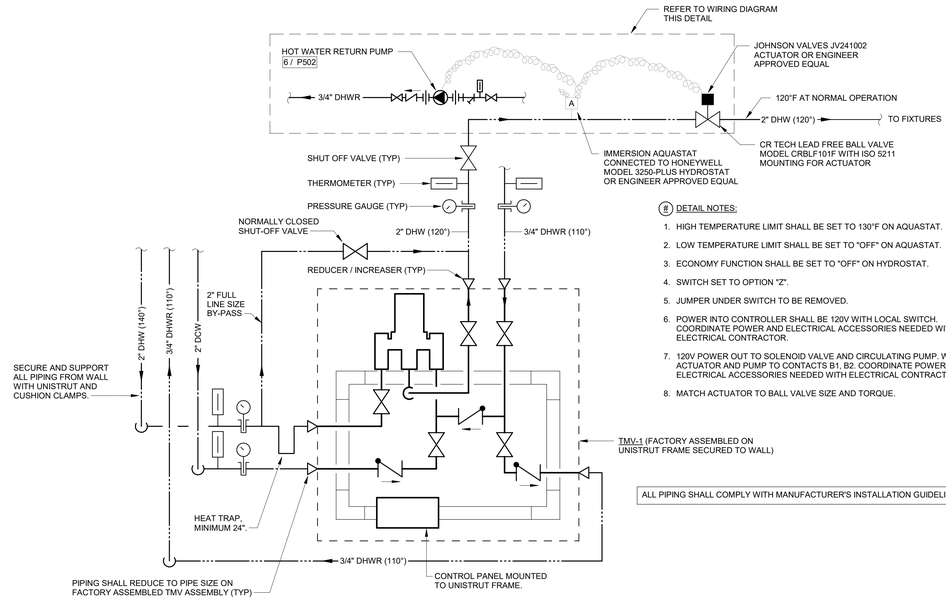
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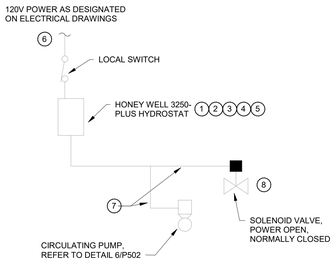
GENERAL DETAIL NOTES:
1. REFER TO DETAIL 5 / P502 FOR WATER HEATER STRAPPING DETAIL.
2. PIPING SHALL BE ARRANGED TO ALLOW EASY REMOVAL OF WATER HEATERS.
3. PLUMBING CONTRACTOR SHAL PRE-CHARGE THE EXPANSION TANK TO EQUAL LINE PRESSURE BEFORE INSTALLING ONTO SYSTEM.

1 DOMESTIC WATER HEATER PIPING DETAIL
N.T.S.



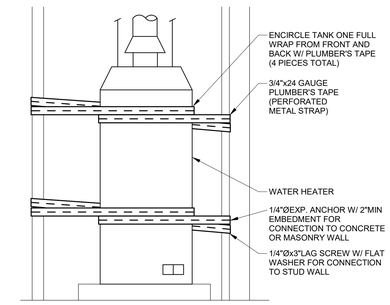
DETAIL NOTES:
1. HIGH TEMPERATURE LIMIT SHALL BE SET TO 130°F ON AQUASTAT.
2. LOW TEMPERATURE LIMIT SHALL BE SET TO "OFF" ON AQUASTAT.
3. ECONOMY FUNCTION SHALL BE SET TO "OFF" ON HYDROSTAT.
4. SWITCH SET TO OPTION "Z".
5. JUMPER UNDER SWITCH TO BE REMOVED.
6. POWER INTO CONTROLLER SHALL BE 120V WITH LOCAL SWITCH. COORDINATE POWER AND ELECTRICAL ACCESSORIES NEEDED WITH ELECTRICAL CONTRACTOR.
7. 120V POWER OUT TO SOLENOID VALVE AND CIRCULATING PUMP. WIRE ACTUATOR AND PUMP TO CONTACTS B1, B2. COORDINATE POWER AND ELECTRICAL ACCESSORIES NEEDED WITH ELECTRICAL CONTRACTOR.
8. MATCH ACTUATOR TO BALL VALVE SIZE AND TORQUE.

ALL PIPING SHALL COMPLY WITH MANUFACTURER'S INSTALLATION GUIDELINES.



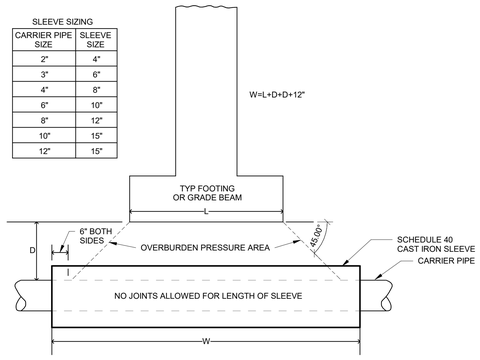
WIRING DIAGRAM

2 MASTER DIGITAL MIXING VALVE PIPING DETAIL
N.T.S.

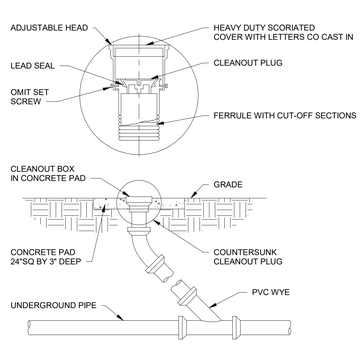


3 WATER HEATER STRAPPING DETAIL
N.T.S.

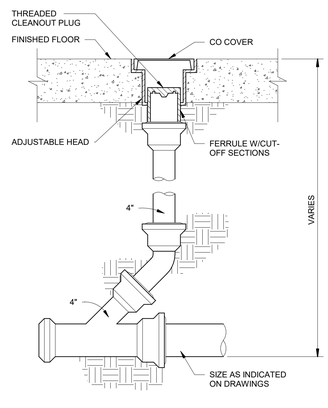
SLEEVE SIZING	
CARRIER PIPE SIZE	SLEEVE SIZE
2"	4"
3"	6"
4"	8"
6"	10"
8"	12"
10"	15"
12"	15"



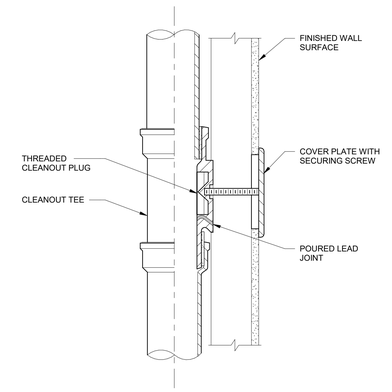
4 SLEEVE UNDER FOOTING DETAIL
N.T.S.



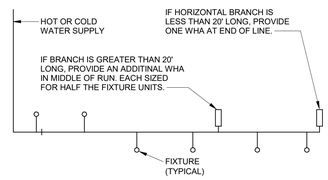
5 CLEANOUT AT GRADE DETAIL
N.T.S.



6 FLOOR CLEANOUT DETAIL
N.T.S.



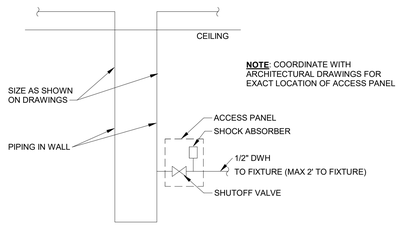
7 WALL CLEANOUT DETAIL
N.T.S.



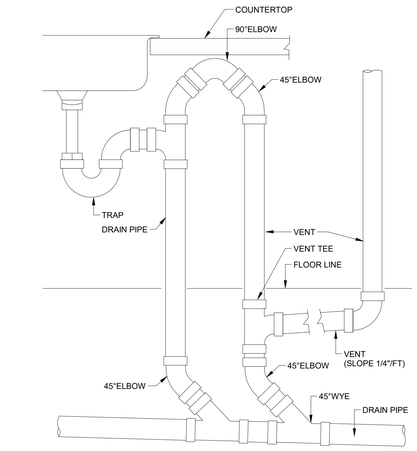
NOTE: INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE A WHA AT ALL QUICK-CLOSING VALVES.

SINGLE/ DOUBLE FIXTURE		
WHA SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

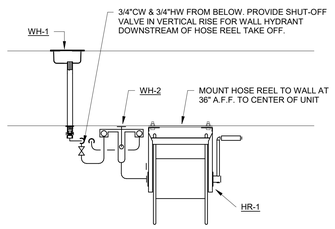
8 WATER HAMMER ARRESTOR DETAIL
N.T.S.



9 IECC DOMESTIC HOT WATER ROUTING DETAIL
N.T.S.



10 LOOP VENT SCHEMATIC DETAIL
N.T.S.



11 APPARATUS BAY HOSE REEL
N.T.S.

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PACIFIC, MO 63069

No.	Revision	Date
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	BIDDING DOCUMENTS	10/16/2026

PLUMBING DETAILS

Project No. 25083

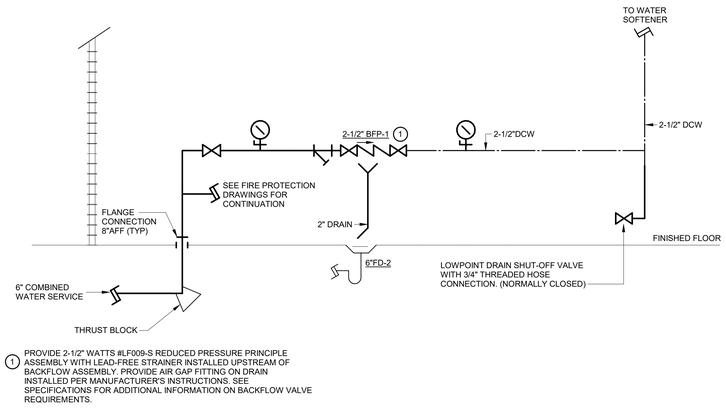
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Date 10/16/2026

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

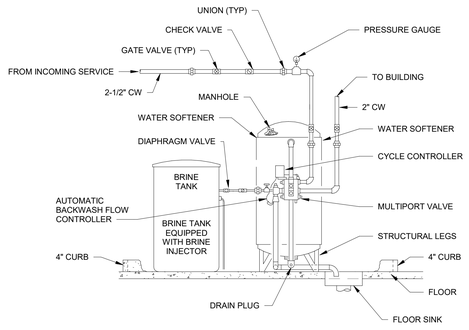
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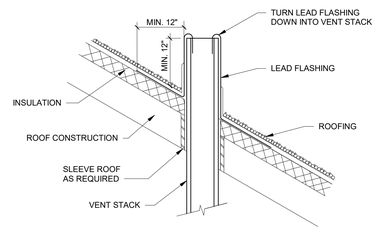


1 PROVIDE 2-1/2" WATTS #LF009-S REDUCED PRESSURE PRINCIPLE ASSEMBLY WITH LEAD-FREE STRAINER INSTALLED UPSTREAM OF BACKFLOW ASSEMBLY. PROVIDE AIR GAP FITTING ON DRAIN INSTALLED PER MANUFACTURER'S INSTRUCTIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON BACKFLOW VALVE REQUIREMENTS.

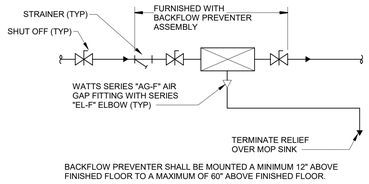
1 WATER SERVICE ENTRANCE DETAIL
N.T.S.



2 WATER SOFTENER PIPING CONNECTION DETAIL
N.T.S.

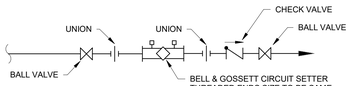


3 VENT THRU PITCHED ROOF DETAIL
N.T.S.

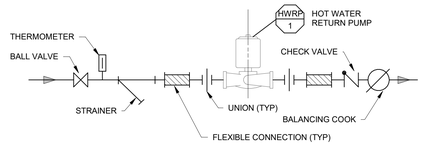


BACKFLOW PREVENTER SHALL BE MOUNTED A MINIMUM 12" ABOVE FINISHED FLOOR TO A MAXIMUM OF 60" ABOVE FINISHED FLOOR.

4 BACKFLOW PREVENTER DETAIL
N.T.S.



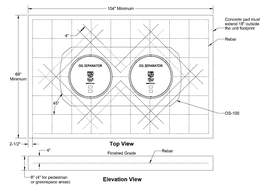
5 BALANCING VALVE DETAIL
N.T.S.



6 HOT WATER RETURN PUMP DETAIL
N.T.S.

BACKFILLING & FINISHED CONCRETE SLAB

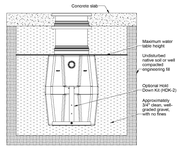
1. Preparation of sub grade per geotech recommendations.
2. Stabilize and compact sub grade to 95% proctor.
3. Before backfilling and pouring of slab, secure covers and risers (if used) to the unit.
4. Backfill using 3/4" clean, well-graded gravel, with no fines (AASHTO M43 #57 Stone or similar). **Native soil, sand, and CLSM (aka, slurry or flowable fill) are not acceptable backfill materials.**
5. Thickness of concrete slab around the covers to be 8" for traffic loading. Thickness of concrete slab around the covers to be 4" for pedestrian or greenspace areas.
6. Concrete slab cannot interfere with the tank body below the risers.
7. Concrete to be 28 day compressive strength to 4000 PSI with 6 ± 1% air entrainment.
8. NO. 4 rebar (1/2") grade 60 steel per ASTM A615: connected with tie wire.
9. Rebar to be 2-1/2" from edge of concrete.
10. Rebar spacing 12" grid. 4" spacing around access openings.



BELOW GRADE INSTALLATION INSTRUCTIONS

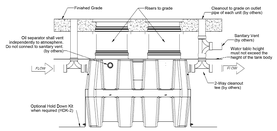
EXCAVATION

1. Surrounding soil must be undisturbed native soil or well compacted engineering fill.
2. Width and length of excavation shall be minimum 12" greater than the tank on all sides.
3. Depth of excavation shall be 6" deeper than tank bottom.
4. Hold Down Kit is recommended for installations in high water table conditions to prevent float out. To be determined by specifying engineer. If necessary, order optional "High Water Table Hold Down Kit (HDK-2)".



UNIT INSTALLATION

1. Lower and center the unit into the excavated hole. Do not use chains or accessways to move the unit.
2. The water table height must not exceed the height of the tank body. The tank and risers are not intended to withstand groundwater levels above the height of the tank body. Exposure to high groundwater levels may compromise the structural integrity of the tanks and risers.
3. Ensure the unit covers are level with finished grade.
4. Fill OS-100 with water before backfilling to stabilize the unit and prevent float out during backfilling.
5. Maximum burial depth: 90" from standard cover height.



7 OIL SEPARATOR INSTALLATION DETAILS
N.T.S.

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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	04/10/2026	PERMIT DOCUMENTS
	10/10/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

PLUMBING DETAILS

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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Project No. 25083
Sheet No. P502
Date 10/16/2026

SCALE: 3" = 1'-0" SCALE: 1 1/2" = 1'-0" SCALE: 1" = 1'-0" SCALE: 3/4" = 1'-0" SCALE: 1/2" = 1'-0" SCALE: 3/8" = 1'-0" SCALE: 1/4" = 1'-0" SCALE: 1/8" = 1'-0" SCALE: 3/32" = 1'-0" SCALE: 1/16" = 1'-0"
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WATER HEATER SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	STORAGE (GAL)	RECOVERY @ 100°F RISE (GPH)	FUEL TYPE	EXPANSION TANK	REMARKS
DWH-1	DOMESTIC WATER HEATER	RHEEM	GHE100SU-130	100	153	LIQUID PROPANE	ET-1	1,2,3

NOTES:
1. RECOVERY BASED ON INCOMING WATER HEATER TEMPERATURE OF 40 DEGREES F AND AN OUTLET TEMPERATURE OF 140 DEGREES F.
2. PROVIDE T&P RELIEF VALVE ON HEATER.
3. PROVIDE TMV AS SHOWN ON MIXING VALVE SCHEDULE.

EXPANSION TANK SCHEUDLE

MARK	DESCRIPTION	MANUFACTURER	MODEL	SERVICE	DIAMETER (IN)	HEIGHT (IN)	VOLUME (GAL)	REMARKS
ET-1	EXPANSION TANK	AMTROL	ST-12-C	DWH-1	12	12' - 6"	4.7	--

PLUMBING FIXTURE SCHEDULE

Mark	Description	MANUFACTURER	MODEL	TRIM	DRAIN / TRAP	SUPPLIES	DISPOSER	CARRIER	SEAT	UTILITIES				NOTES
										HW	CW	WASTE	VENT	
EWC-1	ELECTRIC WATER COOLER	MURDOCK	A172.8-UG-BF	--	--	--	--	--	--	--	1/2"	2"	2"	BI-LEVEL ADA, ON WALL, FILTERED 8GPH, STAINLESS STEEL WATER COOLER, BOTTLE FILLER
HB-1	HOSE BIBB	ACORN	8146-SSLF	--	--	--	--	--	--	3/4"	3/4"	--	--	INSTALL AT LOCATIONS ON DRAWINGS
HB-2	HOSE BIBB	ACORN	8140-SSLF	--	--	--	--	--	--	--	3/4"	--	--	INSTALL AT LOCATIONS ON DRAWINGS
HR-1	HOSE REEL	REELCRAFT	CA32112M	CHICAGO FAUCETS #998-633RCF	--	--	--	--	--	--	3/4"	--	--	INSIDE SILL FITTING, ROUGH CHROME, 3/4" FEMALE THREAD INLET, MANUAL CRANK, WALL MOUNT, 100' HOSE LENGTH OF 3/4" SIZED HOSE (BY OWNER)
L-1	LAVATORY	AMERICAN STANDARD	ESTATE 0483.000	AMERICAN STANDARD COLONY PRO 7075004	DEARBORN BRASS #510-1	DEARBORN BRASS #BCRSR1912A	--	--	--	1/2"	1/2"	2"	2"	OVAL UNDERMOUNT SINK BOWL, VITREOUS CHINA, DECK MOUNTED, MANUAL, CHROME FINISH, 1.2 GPM, GRID STRAINER WITH 1-1/4" TAILPIECE, 17 GA, CHROME, THREADED OR SLIP, WALL ESCUTCHEON, ANGLE VALVES, CHROME PLATED, WITH RISER TUBES
L-2	LAVATORY	AMERICAN STANDARD	MURRO 0955001EC	SLOAN SF-2450	DEARBORN BRASS #510-1	DEARBORN BRASS #BCRSR1912A	--	--	--	1/2"	1/2"	2"	2"	WALL HUNG, WHITE VITREOUS CHINA, ADA MOUNT HEIGHT, DECK MOUNTED, IR SENSOR, CHROME FINISH, BATTERY POWERED, GRID STRAINER WITH 1-1/4" TAILPIECE, 17 GA, CHROME, THREADED OR SLIP, WALL ESCUTCHEON, ANGLE VALVES, CHROME PLATED, WITH RISER TUBES
LB-1	LAUNDRY BOX	IPS CORP	T200 SERIES	--	--	--	--	--	--	1/2"	1/2"	2"	2"	WHITE POWDER COATED LAUNDRY BOX, 1/4 TURN BALL VALVE, WATER HAMMER ARRESTER
MSB-1	MOP SINK	FIAT	MSB-2424	CHICAGO FAUCETS #956R	DEARBORN BRASS #510-1	FIAT #899-CC, FIAT #832-AA, DEARBORN BRASS #BCRSR1912A	--	--	--	3/4"	3/4"	3"	2"	FLOOR SET 24" X 24", PROVIDE WITH MOP HANGER AND HOSE/BRACKET
S-1	SINGLE BOWL SINK	ELKAY	ETSRS33229TFLCC	MOEN CA87316 SINGLE HANDLE FAUCET	DEARBORN BRASS #510-1	DEARBORN BRASS #BCRSR1912A	IN-SINK-ERATOR EVOLUTION	--	--	1/2"	1/2"	2"	2"	STAINLESS STEEL, UNDERMOUNT, DOUBLE BOWL, ADA, SINGLE HOLE, 1.5 GPM, SINGLE HANDLE PULL OUT SPRAY HEAD, ADA, GRID STRAINER WITH 1-1/2" TAILPIECE, 17 GS, CHROME, THREADED OR SLIP, WALL ESCUTCHEON, ANGLE VALVES, CHROME PLATED WITH RISER TUBES, STAINLESS STEEL GRIND CHAMBER, GRIND RING AND TURNTABLE, UL LISTED, 6 YR WARRANTY, 3/4 HP
S-2	SINGLE BOWL SINK	ELKAY	ELUHAD212545	CHICAGO FAUCETS W4D-GN2AE35-317AB	DEARBORN BRASS #510-1	DEARBORN BRASS #BCRSR1912A	--	--	--	1/2"	1/2"	2"	2"	STAINLESS STEEL, UNDERMOUNT, SINGLE BOWL, ADA, DECK MOUNTED, 4" CENTERS, 5-1/4" RIGID GOOSENECK, 1.5 GPM, 4" WRIST BLADES, GRID STRAINER WITH 1-1/2" TAILPIECE, 17 GA, CHROME, THREADED OR SLIP, WALL ESCUTCHEON, ANGLE VALVES, CHROME PLATED, WITH RISER TUBES
S-3	LAUNDRY TUB	FIAT	FL1	CHICAGO FAUCETS W4D-GN2AE35-317AB	DEARBORN BRASS #510-1	DEARBORN BRASS #BCRSR1912A	--	--	--	1/2"	1/2"	2"	2"	MOLDED STONE LAUNDRY TUB WITH LEGS, DECK MOUNTED, 4" CENTERS, 5-1/4" RIGID GOOSNECK, 1.5 GPM, 4" WRIST BLADES, GRID STRAINER WITH 1-1/2" TAILPIECE, 17 GA, CHROME, THREADED OR SLIP, WALL ESCUTCHEON, ANGLE VALVES, CHROME PLATED, WITH RISER TUBES
SH-1	SHOWER	BY ARCHITECT	BY ARCHITECT	SYMMONS 1-117-FS-B30-1.5-X-CHKS	FD-2	--	--	--	--	1/2"	1/2"	2"	2"	PRESSURE BALANCE MIXING VALVE, FS HAND SPRAY UNIT WITH 5' FLEXIBLE HOSE AND WALL CONNECTION, 30" CHROME SLIDE BAR, DIVERTER VALVE, 1.5 GPM SUPER SHOWER HEAD
SH-2	SHOWER	BY ARCHITECT	BY ARCHITECT	SYMMONS 1-117-FS-B30-1.5-X-CHKS	FD-2	--	--	--	--	1/2"	1/2"	2"	2"	PRESSURE BALANCE MIXING VALVE, FS HAND SPRAY UNIT WITH 5' FLEXIBLE HOSE AND WALL CONNECTION, 30" CHROME SLIDE BAR, DIVERTER VALVE, 1.5 GPM SUPER SHOWER HEAD
WB-1	WATER SUPPLY BOX	IPS CORP	MIB1AB	--	--	--	--	--	--	--	1/2"	--	--	WHITE POWDER COATED OUTLET BOX, 1/4 TURN BALL VALVE, WATER HAMMER ARRESTER
WC-1	WATER CLOSET	AMERICAN STANDARD	CADET 215DA.104	--	INTEGRAL	--	--	--	BEMIS 1955-SSCT	--	1/2"	4"	2"	WHITE VITREOUS CHINA, 15" RIM HEIGHT, ELONGATED BOWL, FLOOR MOUNT, 12" ROUGH-IN, 2 BOLT BASE, 1.28 GPF, GRAVITY FED FLUSHING, WHITE ELONGATED OPEN FRONT SEAT
WH-1	WALL HYDRANT	JAY R. SMITH	5509QT-NB	--	--	--	--	--	--	--	3/4"	--	--	INSTALL ON EXTERIOR WALL, SEE DRAWINGS FOR LOCATION

DRAIN SCHEDULE

MARK	DECRIPTION	MANUFACTURER	MODEL	SHAPE	BODY	STRAINER		REMARKS	NOTES
						SIZE	MATERIAL		
FCO-1	FLOOR CLEAN OUT	JAY R. SMITH	4108C	ROUND	NICKEL BRONZE	--	--	ADJUSTABLE TOP, NICKEL BRONZE 5" SECURED TOP, BRASS PLUG	--
FD-1	FLOOR DRAIN	JAY R. SMITH	2005-A-NB-P050	ROUND	CAST IRON	SEE PLANS	NICKEL BRASS	INTEGRAL CLAMPING COLLAR AND ADJUSTABLE NICKEL BRASS STRAINER, STRAINER SIZE TO BE 5" FOR 2" OUTLET, 6" FOR 3" OUTLET AND 8" FOR 4" OUTLET.	1,4,5
FD-2	SHOWER DRAIN	INPRO	PRISM	LINEAR	STAINLESS STEEL	2"	STAINLESS STEEL	REAR TRENCH DRAIN, STANDARD GRATE DESIGN, ADA COMPLIANT, CUSTOM LENGTH AND COLOR COORDINATE WITH ARCHITECT	1,4,5
FS-1	FLOOR SINK	JAY R. SMITH	2405-B	SQUARE	WHITE A.R.E.	SEE PLANS	DUCTILE IRON		1,3,4,5
GCO-1	GROUND CLEAN OUT	JAY R. SMITH	4248C-G-CSS	ROUND	CAST IRON	--	--	ALL GALVANIZED ADJUSTABLE TOP, 7" LOOSE TRACTOR TYPE TOP, BRASS PLUG	--
TD-1	TRENCH DRAIN	JAY R. SMITH	9878	LINEAR	POLYMER CONCRETE	--	DUCTILE IRON	POWERDRAIN, ADA EXTRA HEAVY DUTY, 22.5' LONG	1,2,4,5
WCO-1	WALL CLEAN OUT	JAY R. SMITH	4532S	ROUND	CAST IRON	--	--	CAST IRON CLEANOUT TEE, BRONZE PLUG, STAINLESS STEEL COVER AND SCREW	--

NOTES:
1. REFER TO PLANS FOR DRAIN OUTLET SIZE.
2. VERIFY EXACT LENGTH AT SITE.
3. INSTALL IN HOUSEKEEPING PAD WITH TOP OF GRATE LEVEL WITH HOUSEKEEPING PAD.
4. PROVIDE DEEP SEAL P-TRAP UNDER EACH DRAIN.
5. PROVIDE TRAP PRIMER FOR EACH DRAIN. SEE SPECIFICATION FOR TYPE.

BACKFLOW PREVENTER SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	SIZE	LOCATION	REMARKS
BFP-1	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS	LF009-S-QT	2-1/2"	RISER ROOM	1,2,3

NOTES:
1) INSTALL PER DETAIL 4/P502.
2) INSTALL STRAINER UPSTREAM OF BACKFLOW PREVENTER.
3) LEAD FREE

INTERCEPTOR SCHEDULE

MARK	DECRIPTION	MANUFACTURER	MODEL	CAPACITY	NOTES
OI-2	OIL SEPARATOR	STRIEM	OS-100	100 GPM	1,2

NOTES:
1. PROVIDE WITH HEAVY-DUTY TRAFFIC RATED LID.
2. INSTALL PER MANUFACTURERS REQUIREMENTS.

WATER SOFTENER SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	SOFTENING RATE (GPM/FT2)	RESIN (CU/FT)	BACKWASH RATE (GPM)	FLOW RATE		NOTES
							CONTINUOUS LOSS	PEAK LOSS	
WS-1	WATER SOFTENER	MARLO	MGT-60-2	25.17	2	3.5	33 GPM @ 15 PSI	49 GPM @25 PSI	1

NOTES:
1. INSTALL PER MANUFACTURERS REQUIREMENTS.

CIRCULATING PUMP SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	CAPACITY	ELECTRICAL DATA	NOTES
					V/PH/HZ	
HWRP-1	HOT WATER RETURN PUMP	GRUNDFOS	ALPHA	5 GPM @ 2' HEAD	115/1/60	1,2

NOTES:
1. REFER TO EQUIPMENT DATA SCHEDULE FOR ALL EQUIPMENT MOTOR CHARACTERISTICS.
2. PROVIDE LEAD-FREE BRONZE BODY DESIGNED FOR POTABLE WATER.

DIGITAL THERMOSTATIC MIXING VALVE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	LOCATION	CAPACITY (GAL/MIN)	PRESSURE LOSS (PSI)	LEAVING TEMP	ELECTRICAL	NOTES
TMV-1	DIGITAL THERMOSTATIC MIXING VALVE	LEONARD	S-PNV-100-LF-R34		25	10	125		PROTON DIGITAL PRE-PIPED MIXING VALVE. SELF BALANCE AND CLEANING, BATTERY BACKUP, AUTOMATIC SHUT-OFF UPON COLD OR HOT WATER SUPPLY FAILURE, OUTLET TEMP DISPLAY, MOUNT STANDARD CONTROL BOX ON UNISTRUT NEAR MIXING VALVE. 6' PLUG IN CORD. LEONARD VALVE DIGITAL CONTROL BOX VERSION 1.0. (1, 2, 3)

NOTES:
1. TMV IS A FACTORY ASSEMBLY ON UNISTRUT FRAME.
2. PIPE REDUCERS / INCREASERS SHALL OCCUR AT THE TMV FACTORY ASSEMBLY.
3. PROVIDE TEMPERATURE GAUGE AND PRESSURE GAUGE ON INLET AND OUTLET PIPING SERVING TMV. REFER TO MASTER MIXING VALVE PIPING DETAIL AND DOMESTIC WATER HEATER PIPING DETAIL.

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	04/10/2026	PERMIT DOCUMENTS
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	10/16/2026	BIDDING DOCUMENTS

PLUMBING SCHEDULES

Project No. 25083

Sheet No. P601

Date 10/16/2026

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FIRE PROTECTION SYMBOLS:

- CONTROL VALVE WITH TAMPER SWITCH (TS)
- ELECTRIC MOTOR ALARM GONG
- FIRE MAIN (F)
- SPRINKLER MAIN - SIZED BASED ON HYDRAULIC CALCULATIONS (SPKL)
- FIRE PUMP TEST HEADER
- FLOW SWITCH (FS)
- ROOF HYDRANT OUTLET
- SIAMESE CONNECTION
- SEMI RECESSED
- CONCEALED
- PENDENT/UPRIGHT
- SIDEWALL
- FIRE PROTECTION ZONE
- AUTOMATIC AIR VENT
- BACKFLOW PREVENTER
- CHECK VALVE
- BALANCING VALVE (CIRCUIT SETTER)
- FLOW ARROW/DIRECTION
- FLOW CONTROL VALVE
- GLOBE VALVE
- PRESSURE GAUGE AND COCK
- PRESSURE REDUCING VALVE
- PRESSURE REGULATOR
- REDUCER
- SHOCK ABSORBER/WATER HAMMER ARRESTOR
- SHUT OFF VALVE (OR)
- SOLENOID VALVE
- STRAINER
- TEMP & PRESSURE RELIEF VALVE
- TEST PLUG
- THERMOMETER
- UNION (DIELECTRIC)
- (DASHED) INDICATED PIPING TO BE REMOVED
- CONNECTION TO EXISTING
- EQUIPMENT NUMBER (EQ #)
- INDICATES PLUMBING RISER (P 1)
- KITCHEN EQUIPMENT NUMBER (1)
- REVISION DELTA (1)
- KEYED NOTE (#)
- KEYED DEMOLITION NOTE (E)
- ELBOW DOWN
- ELBOW UP
- TEE DOWN
- TEE UP
- FLOOR DRAIN

ABBREVIATIONS:

AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT COMPLIANT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
AP	ACCESS PANEL
BFG	BELOW FINISHED GRADE
BGB	BOTTOM OF GRADE BEAM
BM	BEAM
BOB	BOTTOM OF BEAM
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF SLAB
BOT	BOTTOM
BT	BATHTUB
BOW	BOTTOM OF WALL
CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
CV	CHECK VALVE
DD	DECK DRAIN
DI	DUCTILE IRON
DIA	DIAMETER
DN	DOWN
DR	DRAIN
DS	DOWNSPOUT
DTL	DETAIL
DW(G(S)	DRAWING(S)
EC	ELECTRICAL CONTRACTOR - DIVISION 26
EOR	ENGINEER OF RECORD
ELEC	ELECTRIC
ELEV	ELEVATION
EQ	EQUAL
EXIST, EX	EXISTING
FA	FROM ABOVE
FB	FROM BELOW
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FIN	FINISHED
FL	FLOOR. FIRE LINE
FP	FIRE PUMP
FPC	FIRE PROTECTION CONTRACTOR - DIVISION 21
FS	FLOOR SINK
FT	FEET
FT-HD	FEET IN HEAD
FVC	FIRE VALVE CABINET
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
H	HEIGHT
HB	HOSE BIBB
HD	HUB DRAIN
HE	HOSE END
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HOUSE TRAP
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH/INCHES
INV	INVERT
JP	JOCKEY PUMP
L	LENGTH
LVL	LEVEL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR - DIVISION 23
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
PC	PLUMBING CONTRACTOR - DIVISION 22
PH	PHASE
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	PSI ABSOLUTE
PSIA	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE IN GAUGE
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPIE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SA	SHOCK ABSORBER
SF	SQUARE FOOT
SHT	SHEET
SOL	SOLENOID
SP	STANDPIPE
SQ	SQUARE
STL	STEEL
STR	SOIL STACK THRU ROOF
SW	STREET WASHER
T&P	TEMPERATURE & PRESSURE
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOT	TOTAL
TPC	TOP OF PIER CAP
TYP	TYPICAL
VB	VACUUM BREAKER
VCP	VITREOUS CLAY PIPE
VERT	VERTICAL
VL	VALVE
VOL	VOLUME
VTR	VENT THRU ROOF
W/O	WITH / WITHOUT
WH	WALL HYDRANT
WT	WEIGHT
YD	YARD DRAIN

FIRE PROTECTION LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

GENERAL NOTES:

1. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE FIRE PROTECTION WORK, COORDINATION BETWEEN OTHER TRADES IS OF THE UTMOST IMPORTANCE.
2. DRAWINGS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF FIXTURES, EQUIPMENT AND PIPING SYSTEMS. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKE INTO ACCOUNT MANY DESIGN CONSIDERATIONS. SO FAR AS PRACTICAL, INSTALL PIPING AS INDICATED. THIS CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
3. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, AND VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF FIRE PROTECTION PIPING.
4. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF PIPING, FIXTURES, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS, EXTREME ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS. THE CONTRACTOR SHALL FURNISH A COMPLETE AND CODE COMPLYING SYSTEM.
5. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THE CONTRACTOR SHALL OBTAIN THE ENGINEERS WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THE CONTRACTOR SHALL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
6. CUTTING, REMOVING AND PATCHING OF EXISTING FLOOR(S), WALL(S), ROOF ETC., FOR PLUMBING AND FIRE PROTECTION PIPING INSTALLATION SHALL BE BY THE CONTRACTOR.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR THE EXISTING SURFACES TO REMAIN WHERE THEIR WORK HAS BEEN COMPLETED. REPAIR SHALL INCLUDE, BUT NOT LIMITED TO, ANY EXISTING WALL, CEILING OR FLOOR THAT IS SCHEDULED TO REMAIN. REPAIR, PAINTING OR PATCHING SHALL BE COMPLETED BY AN APPROPRIATE CONTRACTOR QUALIFIED FOR THIS TYPE OF WORK.
8. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF FIXTURES, EQUIPMENT AND MATERIALS REMOVED. HOWEVER ALL FIXTURES, EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF BY THE DEMOLITION CONTRACTOR.
9. DETAILS SHOWN IN THESE DRAWINGS APPLY TO INSTALLATIONS INDICATED REGARDLESS AS TO IF THEY ARE SPECIFICALLY REFERENCED ELSE WHERE IN THE DRAWING SET. ANY QUESTIONS ON THEIR APPLICABILITY SHALL BE SENT TO THE ENGINEER PRIOR TO BIDDING.

FIRE PROTECTION SYSTEM COMPONENTS EARTHQUAKE LOAD RESISTANCE

OCCUPANCY CATEGORY (IV)

SEISMIC DESIGN CATEGORY (D)

LISTING OF EQUIPMENT & SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY-SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
					ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL SEPARATE PERMIT AND PLANS	
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION		
FIRE PROTECTION, DETECTION & ALARM EQUIPMENT AND SYSTEM COMPONENTS Ip=1.5							
FIRE SYSTEM EQUIPMENT		X		X		X	
FIRE SPRINKLER SYSTEM PIPING / VALVES		X		X		X	
FIRE MAIN PIPING / VALVES		X		X		X	

EXPLANATORY NOTES:
1. ALL FIRE PROTECTION SYSTEMS SHALL CONFORM TO NFPA 13 LATEST EDITION FOR ANCHORAGE AND SWAY BRACING
2. PLANS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THIS PROJECT ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE AHJ A MINIMUM OF TWO WEEKS PRIOR TO THE PLANNED INSTALLATION TO ALLOW FOR PLAN REVIEW AND DISTRIBUTION TO THE INSPECTOR. ADDITIONAL TIME MAY BE NEEDED IF SUCH SUBMISSIONS ARE DEFICIENT.
3. SWAY BRACING REQUIRED FOR ITEMS SUSPENDED FROM STRUCTURE, UNLESS EXEMPT.
4. ANCHORAGE & BRACING CONTRACTOR SHALL REFER TO SPECIFICATIONS ON SEISMIC ANCHORAGE & SWAY BRACING.
5. ALL SEISMIC SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE CODE REVIEWER.
6. CONTRACTOR SHALL ADHERE TO REQUIREMENTS FOR EXEMPTION, WHERE NOTED, OR PROVIDE SEISMIC BRACING DESIGNED BY A QUALIFIED ENGINEER LICENSED IN THE PROJECT'S STATE.

SPRINKLER HEAD SCHEDULE

MARK	STYLE	ELEMENT BULB		COVERAGE	OCCUPANCY RATING	FINISH	ESCUTCHEON	SPECIALS		REMARKS
		RESPONSE	TEMP CLASS							
A	RP	QR	ORDINARY	SC	LH	W	R	-		SEMI-RECESSED
B	A	QR	ORDINARY	SC	LH	W	X	-		ATTIC
C	U/P	QR	ORDINARY	SC	LH	U	X	-		NON-CEILING AREAS
D	U/P	QR	ORDINARY	SC	OH	U	X	-		STORAGE AREAS

STYLE	RESPONSE	COVERAGE	OCCUPANCY RATING	FINISH	ESCUTCHEON
A- ATTIC	QR- QUICK RESPONSE 3MM	EC- EXTENDED	LH- LIGHT HAZARD	B- POLISHED BRASS	C- CONCEALED COVERPLATE
P- PENDANT	SR- STANDARD 5MM	SC- STANDARD	OH- ORDINARY HAZARD	C- CHROME	E- 2 PIECE EXTENDED
RP- RECESSED PENDANT			EH- EXTRA HAZARD	OW- OFF WHITE	F- FLAT
RSW- RECESSED SIDEWALL				U- UNFINISHED	R- RECESSED
FSW- FLUSH SIDEWALL				W- WHITE	X- NO ESCUTCHEON
SW- SIDEWALL					
U- UPRIGHT				* - CUSTOM COLOR	
FP- FLUSH PENDANT					

HYDRAULIC DESIGN CRITERIA

CLASSIFICATION	AREA	DENSITY	APPLICATIONS
LH- LIGHT HAZARD	1500 SF	0.10 GPM	ALL AREAS NOT LISTED BELOW
OH-1 ORDINARY HAZARD GROUP 1	1500 SF	0.15 GPM	STORAGE ROOMS, MECH. ROOMS, ELEC. ROOMS, SHELL SPACES, ACCESSIBLE PIPE CHASES
OH-2 ORDINARY HAZARD CROUP 2	1500 SF	0.20 GPM	
EH-1 EXTRA HAZARD GROUP 1	2500 SF	0.30 GPM	
EH-2 EXTRA HAZARD GROUP 2	2500 SF	0.40 GPM	

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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	06/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

FIRE PROT. SYMBOLS AND ABBREV.

Project No. 25083

Sheet No. FP001

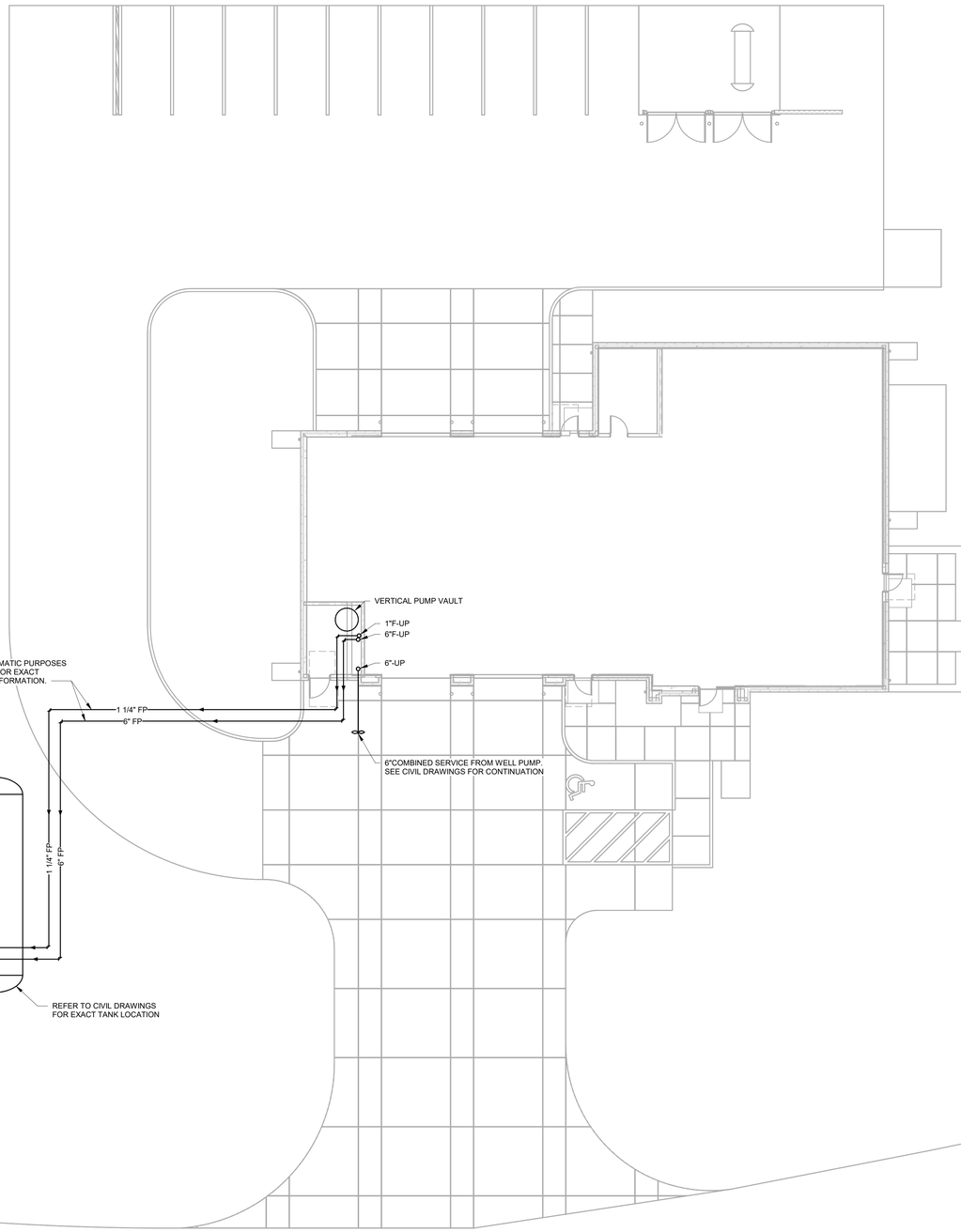
Date 10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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1 FIRE PROTECTION SITE PLAN
1" = 10'-0"

SCALE: 1" = 10'-0"

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PROJECT
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DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD

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	10/02/2026	PERMIT DOCUMENTS - REVISED
A	10/15/2026	PLAN REVIEW CORRECTIONS
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FIRE PROTECTION SITE PLAN

Project No.
25083

Sheet No. A
FP101

Date
10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

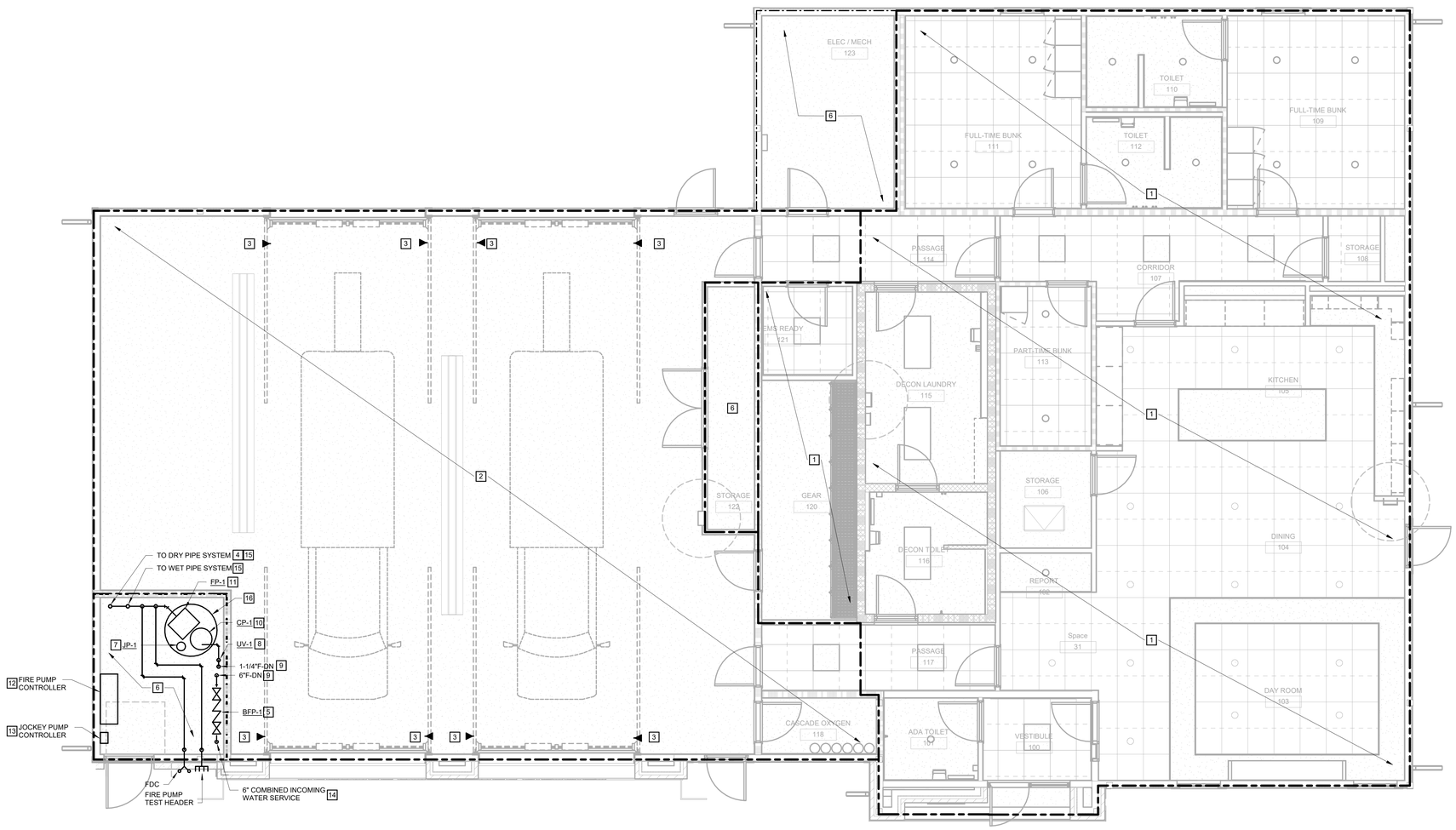
Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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SHEET FP201 KEYED NOTES

1 TYPE A HEADS TO BE INSTALLED.
2 TYPE C HEADS TO BE INSTALLED.
3 TYPE D HEADS TO PROVIDE COVERAGE BELOW OVERHEAD DOORS.
4 PROVIDE RISER-MOUNTED MAINTENANCE AIR COMPRESSOR FOR DRY ZONE TO ATTIC. COMPRESSOR SHALL BE VIKING MODEL G-1 OR EQUIVALENT. COMPRESSOR SHALL BE 120V/1PH. PRELIMINARY SYSTEM AIR FILL SHALL BE BY THE CONTRACTOR. DRY SPRINKLER VALVE WITH NITROGEN INERTING ALONG WITH RELEASING PANEL, TAMPER AND FLOW SWITCH. COORDINATE WITH ELECTRICAL CONTRACTOR.
5 FIRE PROTECTION BACKFLOW PREVENTER. SEE DETAIL 5 ON SHEET FP501 FOR ADDITIONAL INFORMATION.
6 TYPE D HEADS TO BE INSTALLED.
A 7 JOCKEY PUMP, JP-1, SHALL BE A MYERS N75R-01 MODEL 3/4HP, STAINLESS STEEL, SUBMERSIBLE PUMP THAT IS INSIDE THE VERTICAL PUMP VAULT AND IS SECURELY ATTACHED TO THE LID.
8 A CULLIGAN CUV4-101 ULTRAVIOLET LIGHT SHALL BE INSTALLED AT THIS LOCATION. THE UV SHALL BE PROGRAMMED TO BE ACTIVE EITHER AT THE SAME TIME AS CP-1 OR TO BE ACTIVE UPON SENSING OF FLOW WHEN CP-1 IS ACTIVE.
9 TO FIRE PROTECTION STORAGE TANK. SEE DETAIL 7 ON SHEET FP501 FOR ADDITIONAL INFORMATION.
10 CIRCULATION PUMP, CP-1, SHALL BE PROGRAMMED TO RUN FOR 48 HOURS CONTINUOUSLY EVERY WEEK SO AS TO TURN OVER THE FULL VOLUME OF THE FIRE WATER STORAGE TANK AND VERTICAL PUMP BASIN. THE PUMP SHALL PUSH THE WATER THROUGH THE UV FILTER TO MITIGATE UNWANTED BACTERIAL GROWTH WITHIN THE STORAGE TANK AND BASIN. THE PUMP SHALL BE A TRAMCO MODEL 500S.
A 11 FIRE PUMP, FP-1, SHALL BE A PEERLESS 10MAF MODEL 20HP VERTICAL TURBINE FIRE PUMP RATED FOR 500GPM AT 51PSI PRESSURE BOOST. SEE DETAILS 6 AND 7 ON SHEET FP501 FOR ADDITIONAL INFORMATION.
12 THE FIRE PUMP CONTROLLER SHALL BE SERVICE ENTRANCE RATED, PROVIDED WITH AN AUTOMATIC TRANSFER SWITCH, AND BE PROVIDED WITH A SOFT START. COORDINATE REQUIRED POWER CONNECTION WITH ELECTRICAL CONTRACTOR.
13 COORDINATE REQUIRED POWER CONNECTION WITH ELECTRICAL CONTRACTOR.
14 SEE CIVIL DRAWINGS FOR CONTINUATION BELOW GRADE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION INSIDE THE BUILDING.
15 FINAL SIZE SHALL BE PER THE FIRE PROTECTION CONTRACTORS HYDRAULIC CALCULATIONS.
16 THE VERTICAL PUMP VAULT SHALL BE A CONTAINMENT SOLUTIONS FIBERGLASS, VERTICAL PUMP VAULT WITH 48" DIAMETER AND FINAL DEPTH COORDINATED WITH REQUIRED INSTALLATION DEPTH OF THE STORAGE TANK AND TO ALLOW THE APPROPRIATE DEPTH FOR THE VERTICAL TURBINE FIRE PUMP TO OPERATE PROPERLY. SEE DETAIL 7 ON SHEET FP 501 FOR ADDITIONAL INFORMATION.



1 FIRE PROTECTION PLAN
1/4" = 1'-0"
0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

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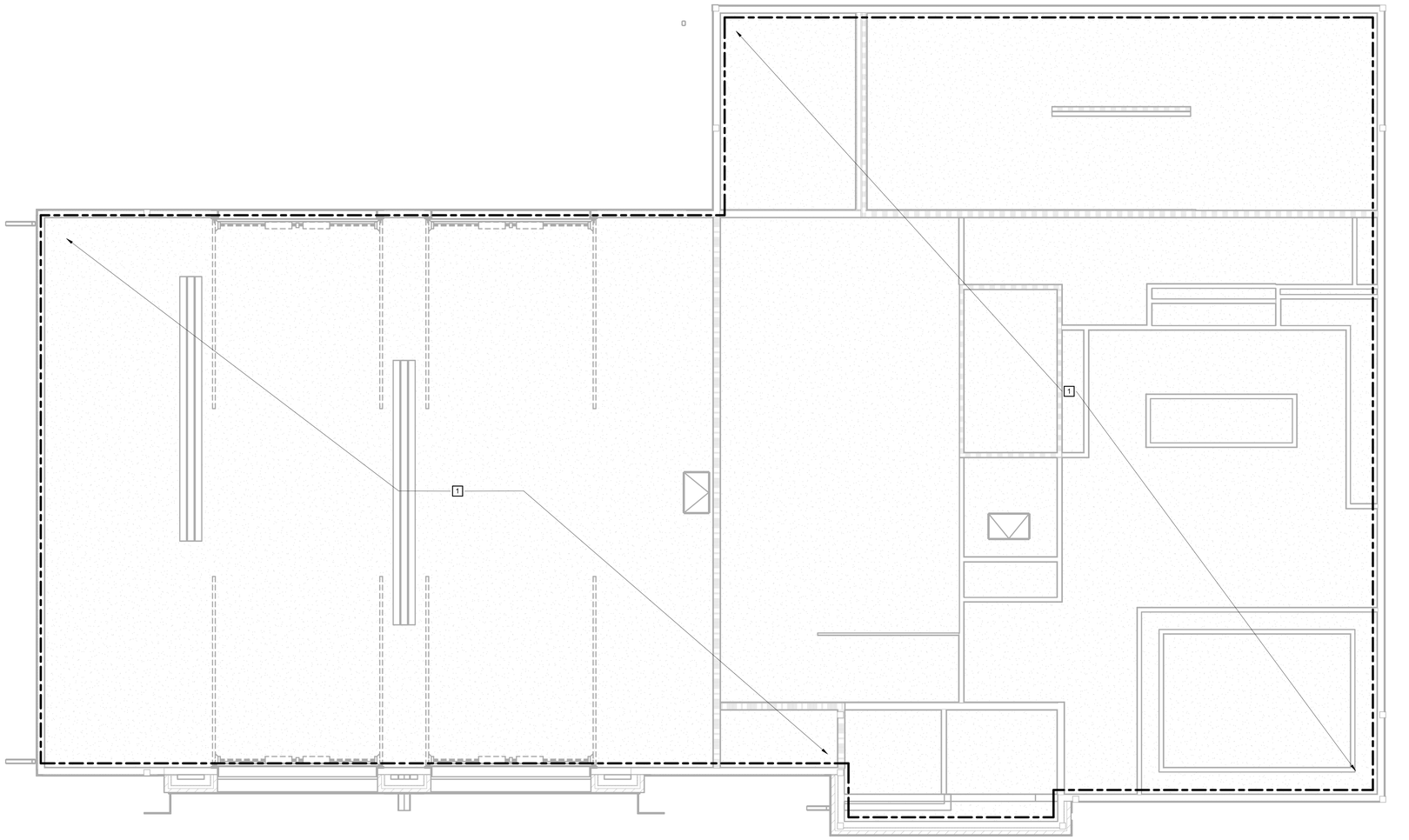
FIRE PROTECTION PLAN

Project No. 25083
Sheet No. FP201
Date 10/16/2026

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SHEET FP202 KEYED NOTES

1 PROVIDE DRY PIPE SYSTEM FOR ATTIC UTILIZING TYPE B HEADS.



1 FIRE PROTECTION ATTIC PLAN
1/4" = 1'-0"
0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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MERAMEC AMBULANCE
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FIRE PROTECTION ATTIC PLAN

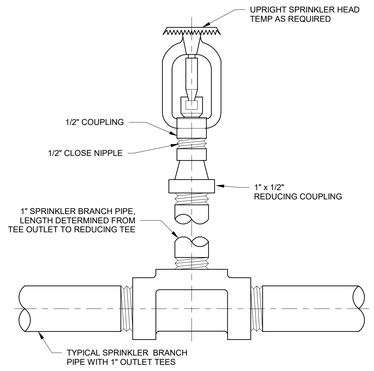
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10/16/26

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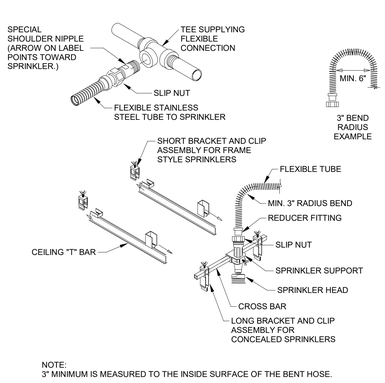
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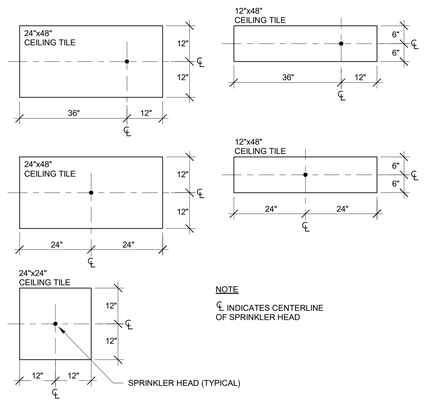


1 UPRIGHT SPRINKLER HEAD DETAIL
N.T.S.



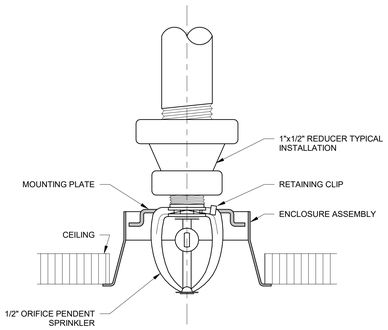
NOTE:
3" MINIMUM IS MEASURED TO THE INSIDE SURFACE OF THE BENT HOSE.

2 FLEXIBLE ARM OVER DETAIL
N.T.S.

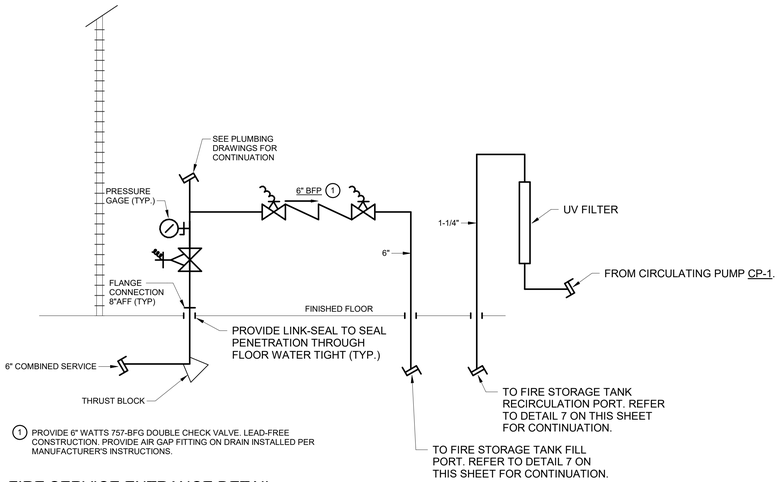


NOTE
℄ INDICATES CENTERLINE
OF SPRINKLER HEAD

3 SPRINKLER HEAD LOCATION DETAIL
N.T.S.

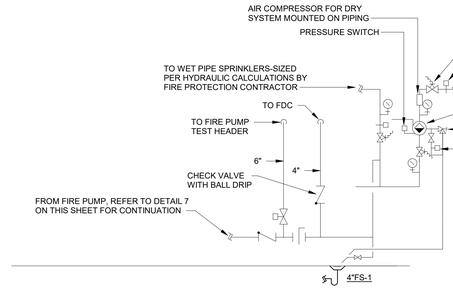


4 SEMI-RECESSED SPRINKLER HEAD INSTALLATION DETAIL
N.T.S.



1 PROVIDE 6" WATTS 757-BFG DOUBLE CHECK VALVE. LEAD-FREE CONSTRUCTION. PROVIDE AIR GAP FITTING ON DRAIN INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

5 FIRE SERVICE ENTRANCE DETAIL
NTS

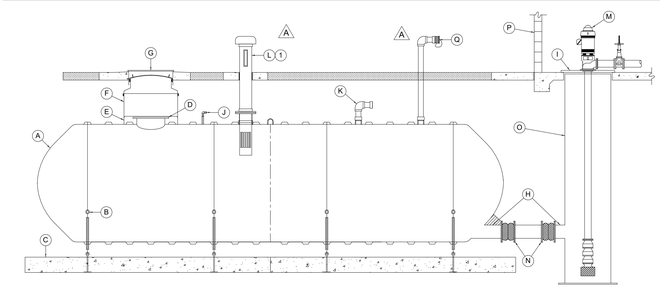


6 POST FIRE PUMP PIPING DETAIL
NTS

CONTAINMENT SOLUTIONS INC. (C.S.I.)

MARK	EQUIPMENT LISTING AND SUPPLIER	CSI	CONTRACTOR	MARK	EQUIPMENT LISTING AND SUPPLIER	CSI	CONTRACTOR
A	C.S.I. UGWT-SW-FP-20000-10 SINGLE WALL FIBERGLASS TANK	X		I	STEEL MOTOR MOUNTING PLATE		X
B	C.S.I. FRP HOLD DOWN STRAP & TURNBUCKLE ASSEMBLY	X		J	1-1/2" NPT FTG FOR RECIRCULATION POINT		X
C	C.S.I. PRECAST DEADMAN ANCHOR WITH EYEBOLTS	X		K	6" NPT FTG FOR FILL POINT	X	
D	22" FRP FLANGED MANWAY	X		L	10" NPT FITTING WITH VENT/LEVEL INDICATOR ASSEMBLY	X	
E	42" ATTACHED CONTAINMENT COLLAR	X		M	VERTICAL PUMP w/ DISCHARGE HEAD AND MULTI STAGE BOWL		X
F	42" TANK SUMP WITH 32" I.D. OPENING	X		N	CONNECTING PIPE w/ FLEXIBLE CONNECTORS		X
G	36" DIAMETER MANHOLE AND COVER		X	O	FIBERGLASS VERTICAL PUMP VAULT	X	
H	FLANGED NOZZLES	X		P	PUMP BUILDING		X
				Q	4-1/2" DRY HYDRANT	X	

A



7 FIRE PROTECTION STORAGE TANK DETAIL
NTS

NOTES:

A 1. LEVEL INDICATOR SHALL ALSO BE PROVIDED WITH A LOW WATER LEVEL ALARM THAT IS TIED TO THE FIRE ALARM PANEL.

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FIRE PROTECTION DETAILS

Project No.
25083

Sheet No.
FP501

Date
10/16/2026

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
10/16/26

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
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ELECTRICAL SYSTEM COMPONENTS EARTHQUAKE LOAD RESISTANCE

OCCUPANCY CATEGORY (II) **SEISMIC DESIGN CATEGORY (D)**

LISTING OF EQUIPMENT & SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY-SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
					ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL SEPARATE PERMIT AND PLANS	
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION		
FIRE PROTECTION, DETECTION & ALARM Ip=1.5							
FIRE ALARM PANEL		X	X			X	
FIRE ALARM WIRING		X		X		X	
EMERGENCY OR STANDBY EQUIPMENT AND SYSTEM COMPONENTS Ip=1.5							
EMERGENCY GENERATOR		X		X			
AUTOMATIC TRANSFER SWITCH		X		X			
EMERGENCY DISTRIBUTION PANEL		X		X			
CONDUIT AND WIRING		X		X			
OTHER EQUIPMENT AND SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF SEISMIC USE GROUP IV FACILITIES, OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION Ip=1.0							
OTHER GENERAL EQUIPMENT & SYSTEM COMPONENTS							
MAIN SWITCHGEAR		X	X				
TRANSFORMERS		X	X				
DISTRIBUTION PANELBOARDS		X	X				
LIGHTING FIXTURES		X		X			
CONDUIT AND WIRING		X		X			

EXPLANATORY NOTES:
1. CONTRACTOR SHALL ADHERE TO REQUIREMENTS FOR EXEMPTION, WHERE NOTED, OR PROVIDE SEISMIC BRACING DESIGNED BY A QUALIFIED ENGINEER LICENSED IN THE PROJECT'S STATE.

EXEMPTION NOTES:
1. SEISMIC DESIGN CATEGORY B - ASCE 7-22 TABLE 13.1-1
2. SEISMIC DESIGN CATEGORY C, THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE. ASCE 7-22 TABLE 13.1-1.
3. SEISMIC DESIGN CATEGORY C, D, E, OR F AND THE COMPONENT WEIGHS 20 LBS OR LESS. ASCE 7-22 TABLE 13.1-1.
4. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND THE CENTER OF MASS IS 4 FT OR LESS ABOVE THE FLOOR, AND THE COMPONENT WEIGHS 400LBS OR LESS, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. ASCE 7-22 TABLE 13.1-1.
5. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND FOR DISTRIBUTION SYSTEMS THE OPERATING WEIGHT OF THE SYSTEM IS 5LB/FT OR LESS. ASCE 7-22 TABLE 13.1-1.
6. LIGHT FIXTURES, SIGN AND CEILING FANS (ASCE 7-22 13.6.1) - NOT CONNECTED TO DUCTS OR PIPING, SUPPORTED BY CHAINS OR OTHERWISE SUSPENDED FROM THE STRUCTURE, PROVIDED ALL OF THE FOLLOWING CRITERIA ARE MET;
   a. THE DESIGN LOAD FOR SUCH ITEMS SHALL BE EQUAL TO 1.4 TIMES THE OPERATING WEIGHT ACTING DOWN WITH A SIMULTANEOUS HORIZONTAL LOAD EQUAL TO 1.4 TIMES THE OPERATING WEIGHT. THE HORIZONTAL LOAD SHALL BE APPLIED IN THE DIRECTION THAT RESULTS IN THE MOST CRITICAL LOADING FOR DESIGN.
   b. SEISMIC INTERACTION EFFECTS SHALL BE CONSIDERED PER SECTION 13.2.4 OF ASCE 7-22
   c. THE CONNECTION TO THE STRUCTURE SHALL ALLOW A 360 DEGREE RANGE OF MOTION IN THE HORIZONTAL PLANE.
7. CONDUIT, CABLE TRAY AND RACEWAYS, Ip=1.0, FLEXIBLE CONNECTIONS PROVIDED BETWEEN CABLE TRAY OR RACEWAY AND ASSOCIATED COMPONENTS WHERE THE CABLE TRAY OR RACEWAY IS POSITIVELY ATTACHED TO THE STRUCTURE, (ASCE 7-22 SECTION 13.6.5 EXCEPTION 1) AND:
   a. TRAPEZE ASSEMBLIES ARE USED WITH 3/8-IN DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. IN LENGTH FROM THE CONDUIT, CABLE TRAY, OR RACEWAY SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE TO SUPPORT RACEWAYS, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB OR LESS, OR
   b. TRAPEZE ASSEMBLIES WITH 1/2-IN DIAMETER ROD HANGERS NOT EXCEEDING 12IN. IN LENGTH FROM THE CONDUIT, CABLE TRAY, OR RACEWAY SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE ARE USED TO SUPPORT THE CABLE TRAY OR RACEWAY, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 200LB (890 N) OR LESS, OR
   c. TRAPEZE ASSEMBLIES WITH 1/2-IN DIAMETER ROD HANGERS NOT EXCEEDING 24 IN. IN LENGTH FROM THE CONDUIT, CABLETRAY, OR RACEWAY SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE ARE USED TO SUPPORT THE CABLE TRAY OR RACEWAY, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS, OR
   d. THE CONDUIT, CABLE TRAY OR RACEWAY IS SUPPORTED BY INDIVIDUAL ROD HANGERS 3/8IN OR 1/2-IN IN DIAMETER, AND EACH HANGER IN THE RACEWAY RUN IS 12 IN. OR LESS IN LENGTH FROM THE CONDUIT, CABLE TRAY, OR RACEWAY SUPPORT POINT CONNECTION TO THE SUPPORTING STRUCTURE. AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE ROD IS 50 LB OR LESS.
8. DESIGN FOR THE SEISMIC FORCES AND RELATIVE DISPLACEMENTS OF SECTION 13.3 SHALL NOT BE REQUIRED FOR CONDUIT, REGARDLESS OF THE VALUE OF Ip, WHERE THE CONDUIT IS LESS THAN 2.5 IN (64MM) TRADE SIZE. (ASCE 7-22 SECTION 13.6.5 EXCEPTION 2.)

GENERAL NOTES – ELECTRICAL

1. MOUNTING HEIGHTS INDICATED WITHIN PLANS AND SCHEDULES ARE DIMENSIONED TO THE CENTER LINE OF THE DEVICE, EQUIPMENT, LUMINAIRE, ETC. UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT EQUIPMENT LOCATIONS WITH OTHER TRADES. EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL PLANS ARE DIAGRAMMATICAL ONLY AND MIGHT NOT BE EXACT.
3. INSTALL EMERGENCY AND EXIT LUMINAIRE WIRING IN A SEPARATE RACEWAY FROM THAT OF ANY NORMAL POWER DEVICE.
4. CONCEAL ALL CONDUIT IN WALLS, IN PARTITIONS, AND IN ABOVE CEILINGS, UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT ROUTED IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE ROUTED EXPOSED.
5. CONCEAL ELECTRICAL CONNECTIONS FOR ELECTRIC WATER COOLERS (EWC) BEHIND WATER COOLER ACCESS PLATE OR DIRECTLY BELOW AND CENTERED ON WALL. CONFIRM CIRCUT WILL BE PROTECTED BY A READILY ACCESSIBLE GFCI DEVICE IN CIRCUIT BREAKER PANEBOARD OR GFCI WHEN MOUNTED BELOW, PRIOR TO INSTALLING CIRCUIT.
6. FIELD COORDINATE ALL ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT MOUNTING LOCATIONS TO AVOID ENCROACHMENT OF OPERATION AND ACCESS TO EQUIPMENT FROM OTHER TRADES. COORDINATE THE APPROPRIATE MOUNTING LOCATION WITH THE AFFECTED DISCIPLINES WHEN EQUIPMENT IS SPECIFIED TO BE MOUNTED ONTO THE SURFACE OF ANOTHER DISCIPLINE'S EQUIPMENT.
7. COORDINATE ELECTRICAL DEVICE INSTALLATIONS WITH FINAL ARCHITECTURAL PLANS AND ELEVATIONS.
8. ALL RECEPTACLES, SWITCHES AND JUNCTION BOXES SHALL BE LABELED WITH PANEL NAME AND CIRCUIT NUMBER PER OWNER'S STANDARD.
9. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS AND CONDUIT SLEEVES THROUGH EXISTING FLOOR SLABS AND FIRE RATED WALLS TO MAINTAIN REQUIRED FIRE RATING. USE UL LISTED METHODS AND MATERIALS OR FIRE-RESISTANCE RATING OF ASSEMBLY ACCORDING TO SECTION 07 84 13 "PENETRATION FIRESTOPPING."
10. NOT ALL BRANCH CIRCUIT CONDUIT AND WIRE IS SHOWN. ONLY PANEL NAMES AND CIRCUIT NUMBERS ARE SHOWN ADJACENT TO DEVICES. THE REMAINING BRANCH CIRCUIT CONDUIT AND WIRES SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS.
11. ALL RECEPTACLES WITHIN 6 FT OF SINKS SHALL BE GFI TYPE.
12. CONTRACTOR SHALL X-RAY CONCRETE SLABS AND WALLS PRIOR TO CORE DRILLING TO AVOID DAMAGE TO UTILITIES OR REINFORCED STEEL.
13. ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PERFORMING ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDIES. RESUBMIT ELECTRICAL POWER DISTRIBUTION EQUIPMENT FOR FINAL APPROVAL AFTER APPROVAL OF ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDIES.

GENERAL NOTES – LIGHTING

1. DESIGNATED NIGHT LIGHTS USED FOR EMERGENCY EGRESS LIGHTS OR CRITICAL LIGHTS INTENDED TO REMAIN ON SHALL BE UNSWITCHED UNLESS OTHERWISE NOTED.
2. SWITCHES IN EACH ROOM SHALL CONTROL LIGHTS IN THAT ROOM ONLY UNLESS OTHERWISE NOTED.
3. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL SWITCHED EMERGENCY BATTERY BACK UP FIXTURES. FOR SWITCHED EMERGENCY FIXTURES WITH INVERTER BACK UP, PROVIDE UL 924 TRANSFER DEVICE. PROVIDE ALL ASSOCIATED WIRING FOR A COMPLETE WORKING SYSTEM.
4. COORDINATE FIXTURE LOCATIONS SUCH THAT FIXTURES RUN PARALLEL TO THE FACE OF THE EQUIPMENT AND OVER AISLES BETWEEN EQUIPMENT IN ALL MECHANICAL AND ELECTRICAL EQUIPMENT AREAS. INSTALL AT LOCATIONS AND HEIGHTS TO PROPERLY ILLUMINATE ALL GAUGES, PANELS, ELECTRICAL EQUIPMENT, CONTROLS, VALVES, ETC. CHAIN HANGING, STEM HANGING, CHANNEL HANGING, ETC. ARE ACCEPTABLE METHODS.

GENERAL NOTES – TELECOMMUNICATIONS SYSTEMS

1. CONTRACTOR SCOPE IS FULL FUNCTIONING SYSTEM FOR TELECOMMUNICATIONS SYSTEMS IN THE PROJECT SCOPE.
2. COORDINATE TELECOMMUNICATION DEVICE LOCATIONS WITH FINAL ARCHITECTURAL PLANS AND ELEVATIONS.
3. FOR TELECOMMUNICATION (TELEPHONE/DATA/WAP) OUTLETS, PROVIDE ROUGH-IN 4 11/16" SQUARE BOX, 2 1/2" DEEP WITH SINGLE GANG PLASTER RING, 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH 90 DEGREE SWEEP AND BUSHING STUBBED TO WITHIN 6" OF CABLE TRAY OR J-HOOK PATHWAY.
4. ALL CABLING SHALL BE PLENUM RATED.
5. ALL OUTDOOR & UNDER FLOOR CABLING SHALL BE GENERAL CABLE "OUTDOOR RATED".

GENERAL NOTES – FIRE ALARM SYSTEMS

1. PROVIDE CONTROL MODULES AND RELAY MODULES AS REQUIRED. INSTALLATION SHALL CONFIRM TO NFPA 72 GUIDELINES.
2. PROVIDE SYNCHRONIZATION OF ALL FIRE ALARM VISUAL NOTIFICATION APPLIANCE CIRCUITS THROUGHOUT THE SCOPE OF WORK AREA.
3. SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 3'-0" FROM AIR SUPPLY AND RETURNS.
4. ALL CABLING SHALL BE PLENUM RATED.
5. REFER TO SPECS FOR DELEGATED DESIGN REQUIREMENTS.

GENERAL NOTES – ACCESS CONTROL/SECURITY SYSTEM

1. CONTRACTOR SCOPE IS FULL FUNCTIONING SYSTEM FOR ALL CCTV, ACCESS CONTROL, AND PAGING SPEAKERS IN THE PROJECT SCOPE.
2. DOOR OPERATOR PUSH PLATES SHOWN ARE PROVIDED BY DOOR SUPPLIER AND INSTALLED BY E.C.
3. ALL CABLING SHALL BE PLENUM RATED.

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

ELECTRICAL SEISMIC & NOTES

Project No. 25083

Sheet No. E001

Date 10/16/2026

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TODD LINUS KUNO
NUMBER PE-2015017018
10/16/2026
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SCALE: 3" = 1'-0" 0 3" 6" 1'
SCALE: 1 1/2" = 1'-0" 0 3" 6" 1'
SCALE: 1" = 1'-0" 0 6" 1' 2'
SCALE: 3/4" = 1'-0" 0 1' 2' 4'
SCALE: 1/2" = 1'-0" 0 1' 2' 4'
SCALE: 3/8" = 1'-0" 0 2' 4' 8'
SCALE: 1/4" = 1'-0" 0 2' 4' 8'
SCALE: 1/8" = 1'-0" 0 4' 8' 16'
SCALE: 3/32" = 1'-0" 0 8' 16' 24'
SCALE: 1/16" = 1'-0" 0 8' 16' 32'

LIGHT FIXTURES:

- LIGHT FIXTURE (Ab / EL - 1) — A = FIXTURE TYPE; b = SWITCH LEG; EL = PANEL; 1 = CIRCUIT NUMBER
- 2x4 LIGHT FIXTURE
- 2x4 LIGHT - EMERGENCY
- 2x4 LIGHT - EMERGENCY UNSWITCHED NIGHTLIGHT
- 2x2 LIGHT FIXTURE
- 2x2 LIGHT - EMERGENCY
- 2x2 LIGHT - EMERGENCY UNSWITCHED NIGHTLIGHT
- CIRCLE DOWNLIGHT FIXTURE
- CIRCLE DOWNLIGHT - EMERGENCY
- CIRCLE DOWNLIGHT - EMERGENCY UNSWITCHED NIGHTLIGHT
- CIRCLE DOWNLIGHT - WALL WASH FIXTURE
- SQUARE DOWNLIGHT FIXTURE
- SQUARE DOWNLIGHT - EMERGENCY
- SQUARE DOWNLIGHT - EMERGENCY UNSWITCHED NIGHTLIGHT
- SQUARE DOWNLIGHT - WALL WASH FIXTURE
- INDUSTRIAL STRIP LIGHT FIXTURE
- EXTERIOR FLOOD LIGHT
- POLE LIGHT FIXTURE
- BOLLARD
- BOLLARD - EMERGENCY
- EXIT SIGN - CEILING MOUNTED (WITH DIRECTIONAL ARROW) (SHADE INDICATES # OF FACES)
- EXIT SIGN - WALL MOUNTED (WITH DIRECTIONAL ARROW) (SHADE INDICATES # OF FACES)
- EMERGENCY LIGHT PACK WITH BATTERY (96" A.F.F.)
- SCONCE
- WALL PACK - EXTERIOR
- TRACK LIGHTING
- CEILING FAN

LIGHTING CONTROLS:

- (V) DAYLIGHT HARVEST SENSOR
- (PC) PHOTOCELL
- ◇ - VS — CEILING OCCUPANCY SENSOR; VS = VACANCY SENSOR; OC = OCCUPANCY SENSOR
- CEILING OCCUPANCY SENSOR MULTI DIRECTION
- $a — TOGGLE SWITCH SINGLE POLE; a = SWITCH LEG (LOWER CASE LETTERS)
- $3 — TOGGLE SWITCH THREE WAY
- $4 — TOGGLE SWITCH FOUR WAY
- $D — DIMMER SWITCH
- $K — KEY OPERATED SWITCH
- $P — SWITCH WITH PILOT LIGHT ON WHEN SWITCH IS ON
- $T — TIMER SWITCH
- $WP — WEATHERPROOF SINGLE POLE SWITCH
- $OC — OCCUPANCY SENSOR WALL MOUNTED WITH OFF-AUTO OVERRIDE SWITCH
- $VS — VACANCY SENSOR WALL MOUNTED
- $ — LOW VOLTAGE SWITCH (48" A.F.F.)
- $U/I — ULTRASONIC / PASSIVE INFRARED

ABBREVIATIONS:

AFC	AVAIABLE FUALT CURRENT
AIC	AMP INTERRUPTING CURRENT
A.F.F.	ABOVE FINISH FLOOR
C	CONDUIT
c	6" ABOVE COUNTER BACKSPLASH
u	USB OUTLET
GFI	GROUND FAULT INTERRUPTER
WP	WEATHERPROOF
GRS	GALVANIZED RIGID STEEL
EMT	ELECTRICAL METAL TUBING
AC	ALTERNATING CURRENT
MC	METAL CLAD CABLE
PVC	POLYVINYL CHLORIDE CONDUIT
IG	ISOLATED GROUND
EOR	ENGINEER OF RECORD

CONDUIT:

- CONDUIT EXPOSED
- CONDUIT CONCEALED IN FLOOR, BELOW SLAB OR BELOW GRADE
- CONDUIT CONCEALED IN WALL OR CEILING
- —T— TELEPHONE CONDUIT
- -CATV- TELEVISION CONDUIT
- CONDUIT DOWN
- CONDUIT UP
- CONDUIT SLEEVE INSULATED BUSHING EACH END
- WIRE IN CONDUIT LEFT TO RIGHT 1 GROUND, 1 NEUTRAL, 3 HOTS
- HOME RUN (A - 1,3) — A = PANEL A; 1,3 = CIRCUITS 1,3
- CABLE TRAY
- (A) FEEDER A
- GROUND JACK
- PB — PULL BOX
- HH — HAND HOLE

ELECTRICAL DEVICES:

- SIMPLEX RECEPTACLE (18" A.F.F.)
- DUPLEX RECEPTACLE (18" A.F.F.)
- GFI DUPLEX RECEPTACLE (18" A.F.F.)
- QUADRUPLEX RECEPTACLE (18" A.F.F.)
- GFI QUADRUPLEX RECEPTACLE (18" A.F.F.)
- EMERGENCY RECEPTACLE (18" A.F.F.)
- COUNTERTOP RECEPTACLE (6" ABOVE COUNTER)
- TAMPER RESISTANT RECEPTACLE (18" A.F.F.)
- FLOOR RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE (18" A.F.F.)
- SPECIAL PURPOSE FLOOR RECEPTACLE
- JUNCTION BOX
- JUNCTION BOX IN FLOOR
- SURFACE RACEWAY DUPLEX OUTLET 3' ON CENTER
- PP — POWER POLE
- PS — POWER SUPPLY
- P — POWER WHIP

ELECTRICAL EQUIPMENT:

- ELECTRIC METER
- (G) GENERATOR
- PANELBOARD
- DISTRIBUTION PANELBOARD
- (T) TRANSFORMER
- ATS — AUTOMATIC TRANSFER SWITCH
- MTS — MANUAL TRANSFER SWITCH
- UPS — UNINTERRUPTIBLE POWER SOURCE
- (MM) MULTIMETER
- SPD — SURGE PROTECTOR DEVICE
- (EF 01) MOTOR WITH DESIGNATION
- $m — MANUAL MOTOR STARTER
- DISCONNECT SWITCH
- COMBINATION STARTER
- MOTOR STARTER
- WEATHER HEAD
- (SV) SOLENOID VALVE
- VSD — VARIABLE SPEED DRIVE
- ANTENNA - TELEMETRY

SECURITY DEVICES:

- AC — ACCESS CONTROL HEAD-END
- ARA — AREA OF RESCUE ANNUNCIATOR
- AR — AREA OF RESCUE ASSISTANCE CALL STATION
- CAMERA
- CR — CARD READER
- CCTV — CCTV HEAD-END
- MON — CCTV MONITOR
- DC — DOOR CONTACT
- ES — ELECTRIC DOOR STRIKE
- GLASS BREAK DETECTOR - WALL MOUNTED
- GLASS BREAK DETECTOR - CEILING MOUNTED
- K — KEYPAD
- ML — MAGNETIC LOCK
- MOTION DETECTOR - WALL MOUNTED
- MOTION DETECTOR - CEILING MOUNTED
- PROX — PROXIMITY READER ACCESS CONTROL
- (P) PANIC BUTTON
- RA — REFRIGERATOR ALARMS
- REX — REQUEST TO EXIST MOTION DETECTOR
- EP — ELECTRIC/PNEUMATIC SWITCH
- LS — LIMIT SWITCH
- MGA — MEDICAL GAS ALARM

COMMUNICATION DEVICES:

- ANT — ANTENNA
- DOOR BELL
- DOOR BELL BUTTON
- A — INTERCOM ANSWERING STATION
- C — INTERCOM CALL STATION
- M — MICROPHONE OUTLET
- M — MICROPHONE OUTLET IN FLOOR
- PBS — PROGRAM BELL SYSTEM
- PAS — PUBLIC ADDRESS SYSTEM
- PUSH PLATE 2#16 STP TO IT ROOM
- SEC — SOUND EQUIPMENT PANEL
- S — SPEAKER - CEILING MOUNTED (2) PAIRS OF 2#16 STP IT ROOM RACK
- S — SPEAKER - SURFACE MOUNTED (2) PAIRS OF 2#16 STP IT ROOM RACK
- S — SPEAKER - WALL MOUNTED (2) PAIRS OF 2#16 STP IT ROOM RACK
- H — HORN SPEAKER
- V — VOLUME CONTROL (48" A.F.F.)

DATA DEVICES:

- DATA OUTLET (18" A.F.F.)
  - c = 6" ABOVE COUNTER BACKSPLASH
  - 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS = NO NUMBER EQUALS 1 PORT

  TV = SIMILAR TO WIREMOLD EVOLUTION WALL BOX WITH STORAGE MODULE
  - POWER SIDE: (1) DUPLEX; 3/4" CONDUIT FOR POWER
  - DATA SIDE: (1) CAT6 TO IT RACK; (1) CAT6 PORT; (1) HDMI PORT (CABLE NOTED ON PLANS); 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.

  LIVE = SIMILAR TO WIREMOLD EVOLUTION WALL BOX WITH STORAGE MODULE
  - POWER SIDE: (1) DUPLEX; 3/4" CONDUIT FOR POWER
  - DATA SIDE: (1) CAT6 TO IT RACK; (1) CAT6 PORT; 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.

  VP = SIMILAR TO WIREMOLD EVOLUTION WALL BOX WITH STORAGE MODULE
  - POWER SIDE: (1) DUPLEX; 3/4" CONDUIT FOR POWER
  - DATA SIDE: (1) CAT6 TO IT RACK; (1) CAT6 PORT; 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.

  TERMINATE CABLE AT PORT
- DATA OUTLET IN FLOOR
- SURFACE RACEWAY DATA OUTLET 3' ON CENTER
- HDMI OUTLET (18" A.F.F.) UNO
  - c = 6" ABOVE COUNTER BACKSPLASH
  - 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS
  - W = MOUNT 48" A.F.F.
- HDMI OUTLET IN FLOOR
- WAP — WIRELESS ACCESS POINT

FIRE ALARM LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

FIRE ALARM GENERAL NOTES

1. VISUAL DEVICES 115CD OR LOWER SHALL BE PROVIDED WITH SELECTABLE RANGE 15 CD TO 115CD.
2. WALL DEVICES SHALL BE MOUNTED, TOP OF DEVICE, THE LOWER OF 90" AFF OR 6" BELOW CEILING.
3. SIGNALING LINE CIRCUIT (SLC) SHALL BE CLASS **B**
4. NOTIFICATION APPLIANCE CIRCUIT (NAC) SHALL BE CLASS **B**
5. FIRE ALARM CIRCUITS SHALL BE **PLENUM RATED CABLE SUPPORTED A MAXIMUM OF 4' ON CENTER FROM J-HOOKS**
6. REFER TO SPECIFICATIONS, DIV 26 AND 28, FOR ADDITIONAL INFORMATION.

ABBREVIATIONS

AFF - AWAY FROM FINISH FLOOR
C - CEILING
MNS - MASS NOTIFICATION SYSTEM
P - PENDENT
RI - REMOTE INDICATOR
UNO - UNLESS NOTED OTHERWISE
WP - WATER PROOF
#W - SPEAKER WATTAGE SETTING
#CD - CANDELA RATING

INTERFACE / SUPERVISORY

- WF — FLOW DETECTOR
- VS — VALVE SUPERVISORY SWITCH
- SOV — SOLENOID VALVE
- NOX — KNOX BOX
- DH — DOOR HOLD
- PIV — POST INDICATOR VALVE
- SD — SMOKE DAMPER

WALL NOTIFICATIONS

- SPEAKER DARK TRIANGLE
- HORN HOLLOW TRIANGLE
- **BELL** HOLLOW CIRCLE
- WALL VISIBLE ONLY
- VISIBLE WITH AUDIBLE
- REMOTE ALARM INDICATOR / TEST SWITCH

CEILING NOTIFICATIONS

- CEILING SPEAKER DARK TRIANGLE
- CEILING HORN HOLLOW TRIANGLE
- CEILING **BELL** HOLLOW CIRCLE
- CEILING VISIBLE ONLY
- CEILING VISIBLE WITH AUDIBLE
- CEILING REMOTE ALARM INDICATOR / TEST SWITCH

MANUAL PULL

- F — PULL STATION

CONTROL UNITS

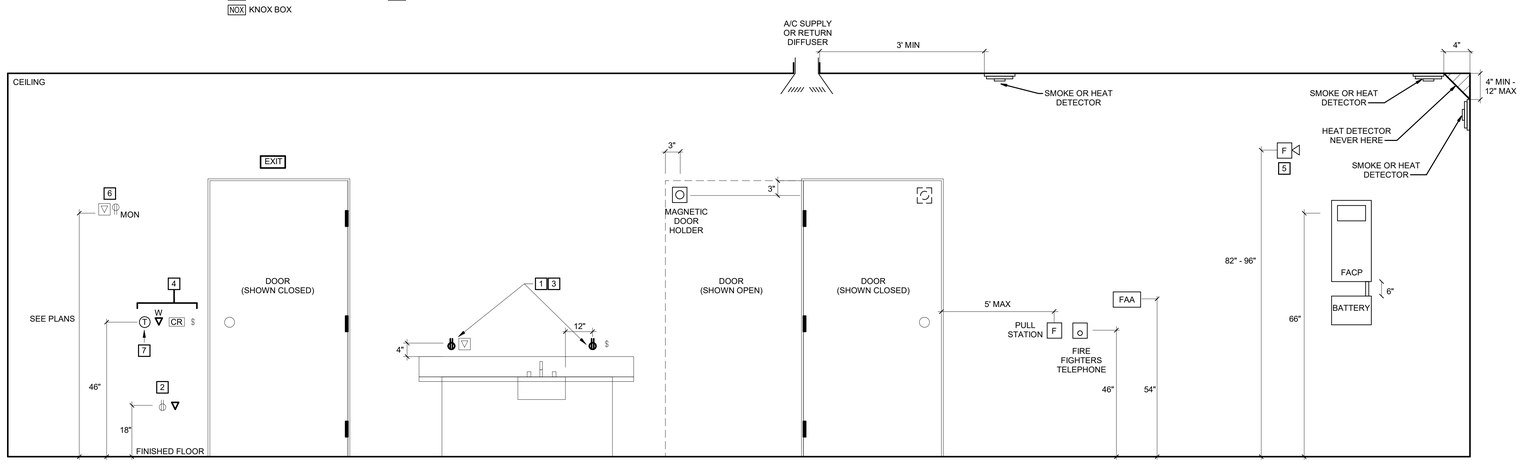
- HVAC — HVAC CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FPC — FIRE PUMP CONTROLLER
- NAC — NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL

ADDRESSABLE MODULE

- AIM — ADDRESSABLE INPUT MONITOR MODULE
- AIO — ADDRESSABLE INPUT/ OUTPUT MONITOR MODULE
- AOM — ADDRESSABLE OUTPUT CONTROL MODULE
- IM — ISOLATION MODULE

DETECTION

- (S) ##: SMOKE DETECTION
  - AS - AIR SAMPLING
  - ID - IN DUCT
  - I - IONIZATION
  - P - PHOTOELECTRIC
  - BR - BEAM RECEIVER
  - BT - BEAM TRANSMITTER
  - SB - SOUNDER BASE
  - W - WALL
- (S) SINGLE STATION SMOKE DETECTION
- DUCT SMOKE DETECTOR
- (H) ##: HEAT DETECTOR (135F UNO)
  - R/F - RATE OF RISE / FIX TEMP
  - F - FIXED TEMP
  - R/C - RATE COMPENSATION
  - R - RATE OF RISE
- LINE TYPE
- GAS DETECTION ##
  - CO - CARBON MONOXIDE
  - CO2 - CARBON DIOXIDE
  - HCL - HYDROGEN CHLORIDE
  - CH4 - METHANE



DEVICE MOUNTING GENERAL NOTES:

1. COORDINATE MOUNTING LOCATION WITH OTHER TRADES TO ENSURE A COMMON MOUNTING HEIGHT, UNIFORM SPACING AND AESTHETICALLY PLEASING APPEARANCE.
2. WIRING DEVICES MOUNTING HEIGHT INDICATED IN LEGEND AND ON THE DRAWINGS SHALL BE THE DISTANCE MEASURED FROM THE CENTER OF THE DEVICE TO THE FINISHED FLOOR.

DEVICE MOUNTING NOTES:

1. ALL RECEPTACLES INSTALLED WITHIN 6'-0" OF THE EDGE OF ANY SINK OR BASIN SHALL HAVE GFI PROTECTION. DO NOT INSTALL RECETPACLES WITHIN 12" OF THE EDGE OF A SINK OR BASIN.
2. COORDINATE WITH THE TELECOMMUNICATIONS DRAWINGS TO ENSURE THAT A RECEPTACLE IS INSTALLED WITHIN 18" HORIZONTAL TO ALL SIGNAL AND DATA DEVICE LOCATIONS.

   COORDINATE ABOVE COUNTER WIRING DEVICES WITH CASEWORK, COUNTERS AND
3. BACKSPLASH SUCH THAT THE DEVICES AND RECEPTACLES ARE LOCATED AT +42" AFF OR 6" ABOVE THE COUNTERTOP OR BACKSPLASH, WHICHEVER IS HIGHER.
4. SWITCHES AND OTHER FLUSH WALL-MOUNTED DEVICES MOUNTED AT 48" AFF AND ADJACENT TO DOOR SHALL BE MOUNTED WITHIN 24" OF DOORFRAME. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DOORS WITH SIDELITES. WHERE DEVICES ARE TO BE INSTALLED ON A WALL ADJACENT- AND PERPENDICULAR- TO THE DOORFRAME, MOUNT THE DEVICE 12" BEYOND THE DOOR SWING EXTENT. COORDINATE ROUGH-IN LOCATIONS WITH DIV. 27 AND 28 DEVICES.
5. NOTIFICATION DEVICE SHALL BE MOUNTED SO THE ENTIRE LENS IN BETWEEN 80" AND 96" ABOVE FINISHED FLOOR, OR 6" BELOW THE CEILING LINE, WHICHEVER IS LOWER.
6. COORDINATE MOUNTING HEIGHT FOR AV MONITOR WIRING DEVICES WITH MOUNTING BRACKET.
7. COORDINATE LOCATION AND HEIGHT OF THERMOSTAT WITH MECHANCAL CONTRACTOR

TYPICAL WALL DEVICE MOUNTING DETAIL

NOT TO SCALE

ELECTRICAL LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Revision	Date
	PERMIT DOCUMENTS	04/15/2026
	PERMIT DOCUMENTS - REVISED	10/02/2026
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ELECTRICAL SYMBOLS AND ABBREVIATIONS

Project No. 25083

Sheet No. E002

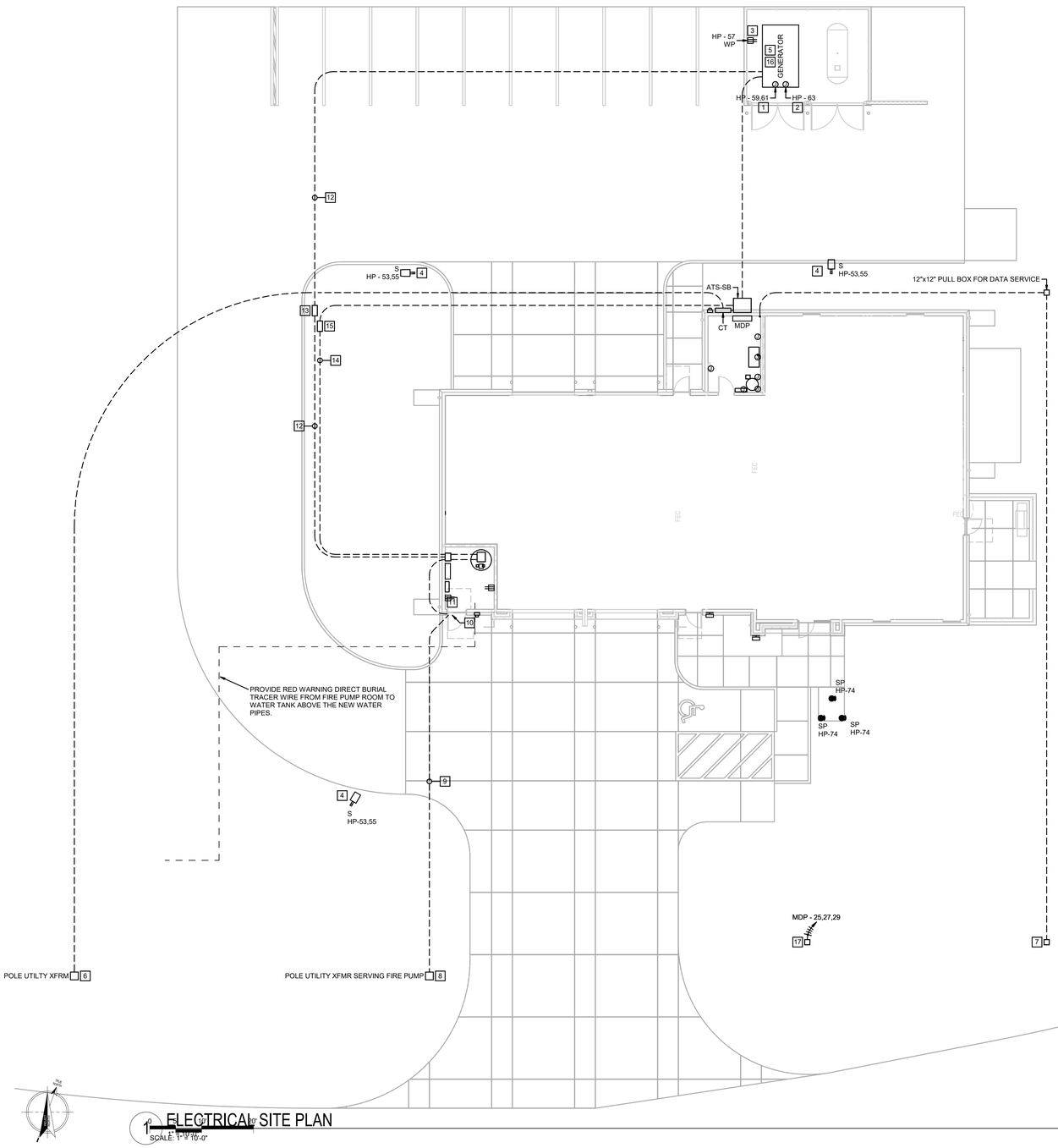
Date 10/16/2026

STATE OF MISSOURI — TODD LINUS KUNO — NUMBER PE-2015017018 — 10/16/2026 — PROFESSIONAL ENGINEER

Name: Todd L. Kuno
Discipline: Professional Engineer
License No: 2015017018
Expiration Date: 12/31/2027

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ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"

SHEET E101 KEYED NOTES

1. PROVIDE 208V/1PH, 2#10,#10G, 1" CONDUIT FOR GENERATOR HEATER.
2. PROVIDE 120V/1PH, 2#10,#10G, 1" CONDUIT FOR GENERATOR BATTERY CHARGER.
3. PROVIDE RECEPTACLE, 2#10,#10G, 1" CONDUIT
4. PROVIDE 208V/1PH, 2#10,#10G, 1" CONDUIT TO THE SITE POLE FIXTURES.
5. PROVIDE 1" CONDUIT FOR GENERATOR COMMUNICATIONS WIRE.
6. UTILITY POLE. PROVIDE SERVICE CONDUCTORS AND CONDUIT UP POLE PER AMEREN REQUIREMENTS. COORDINATE WITH CIVIL AND UTILITY.
7. PROVIDE 3" CONDUIT FROM DATA DEMARK LOCATION TO WITHIN THE BUILDING. PROVIDE PULL STRING FOR DATA PROVIDER.
8. UTILITY POLE SERVICE FIRE PUMP. PROVIDE SERVICE CONDUCTORS AND CONDUIT UP POLE PER AMEREN REQUIREMENTS. COORDINATE WITH CIVIL AND UTILITY.
9. ROUTE FIRE PUMP ELECTRICAL SERVICE FEEDER FROM AMEREN POWER POLE BELOW GRADE TO BUILDING MOUNTED AMEREN SERVICE METER. PROVIDE GROUNDING AT METER TO MEET AMEREN SERVICE MANUAL REQUIREMENTS.
10. PROVIDE AMEREN SERVICE METER ON EXTERIOR WALL. COORDINATE WITH AMEREN PRIOR TO INSTALLATION. MEET AMEREN SERVICE MANUAL REQUIREMENTS. COORDINATE ROUTE OF UNDERGROUND ELECTRICAL SERVICE TO AVOID WATER TANK.
11. FIRE PUMP SERVICE FEEDER SHALL BE ROUTED DIRECTLY INTO FIRE PUMP ROOM TO SERVICE ENTRANCE RATED FIRE PUMP CONTROLLER. FIRE PUMP SERVICE FEEDER SHALL NOT ENTER ANY OTHER AREAS OF THE BUILDING PRIOR TO TERMINATION IN THE FIRE PUMP ROOM.
12. ROUTE STANDBY POWER FEEDER FROM ENGINE GENERATOR SET TO FIRE PUMP CONTROLLER BELOW GRADE. FIRE PUMP CONTROLLER FEEDER SHALL BE ROUTED BELOW GRADE BELOW FROST LINE. FIRE PUMP CONTROLLER FEEDER SHALL NOT BE ROUTED INTO THE BUILDING IN ANY OTHER AREA THAN THE FIRE PUMP ROOM.
13. PROVIDE IN-GROUND ELECTRICAL PULL BOX WITH LID RATED FOR AN ANSI/SCTE 77 TIER 15 APPLICATION WITH OCCASIONAL ACCIDENTAL VEHICLE EXPOSURE.
14. PROVIDE 1" CONDUIT WITH GENERATOR START-STOP AND COMMUNICATION CABLES BETWEEN ATS-SB AND ATS-FPC, ROUTE BELOW GRADE AND BENEATH FROST LINE. PROVIDE CONNECTIONS SUCH THAT LOSS OF UTILITY POWER AT EITHER ATS WILL SIGNAL THE ENGINE-GENERATOR TO START.
15. PROVIDE IN-GROUND ELECTRICAL PULL BOX WITH LID FOR ATS COMMUNICATION CIRCUITS.
16. PROVIDE FIRE ALARM MODULES TO MONITOR THE FOLLOWING AT THE ENGINE-GENERATOR: GENERATOR COMMON ALARM, GENERATOR RUNNING, AND SUPERVISION OF GENERATOR OUTPUT CIRCUIT BREAKING SERVING THE FIRE PUMP CONTROLLER. PROVIDE CONDUIT AND CONNECTION TO BUILDING FIRE ALARM SYSTEM FOR FULLY OPERATIONAL STSTEM. REFER TO SHEET E402 FOR DETAILS.
17. COORDINATE WELL PUMP CONTROLLER LOCATION AND ALL REQUIRED CONNECTIONS WITH DIVISION 33 CONTRACTOR.

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PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/25/2025	PERMIT DOCUMENTS
	10/02/2025	PERMIT DOCUMENTS - REVISED
	10/16/2026	BIDDING DOCUMENTS

SITE PLAN

Project No.
25083

Sheet No.
E101

Date
10/16/2026

STATE OF MISSOURI
TODD LINUS KUNO
NUMBER
PE-2015017018
10/16/2026
PROFESSIONAL ENGINEER

Name: Todd L. Kuno
Discipline: Professional Engineer
License No: 2015017018
Expiration Date: 12/31/2027

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SHEET E201 KEYED NOTES

#	
1	GARBAGE DISPOSAL SWITCH. ELECTRICAL CONTRACTOR TO INSTALL AND CONNECT. COORDINATE WITH PLUMBING CONTRACTOR.
2	BAY DOOR CONTROLLER SUPPLIED WITH DOOR. INSTALLED BY ELECTRICAL CONTRACTOR. CONNECT PER EQUIPMENT SUPPLIER WIRING DIAGRAMS INCLUDING SAFETY SENSORS. LABEL PER OWNERS DIRECTION WITH PHENOLIC PLATES.
3	SEE OVEN SHUT OFF SCHEMATIC FOR CONTROL OF STOVE RECEPTACLE AND GAS SOLENOID.
4	PROVIDE 20AMP RECEPTACLE, SURFACE MOUNTED TO STRUCTURE. PROVIDE 120V, #10/3, 25' CORD REEL WITH SINGLE 5-20R. CORD REEL HIGH STOP SHALL BE SET SO PLUG IS 7'AFF.
5	GFCI BREAKER IN PANEL.
6	PROVIDE 120V CIRCUIT TO MOTORIZED DAMPER FROM SAME CIRCUIT EF-01. PROVIDE DISCONNECT. DAMPER TO BE INTERLOCKED WITH EF-01.
7	PROVIDE 120V CONNECTION TO MOTORIZED DAMPER. PROVIDE LOCAL TOGGLE DISCONNECT.
8	FIRE PUMP CONTROLLER.
9	JOCKEY PUMP CONTROLLER.
10	PROVIDE 2#12, 1#12G, 1/2 INCH BRANCH CIRCUITS TO TWO GFCI DUPLEX RECEPTACLES TO SERVE THE UL LIGHTS IN THIS ROOM. COORDINATE LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION. LOCATION OF GFCI SHALL MEET NFPA REQUIREMENTS FOR ACCESSIBILITY.

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

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PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
385 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Revision	Date
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3	PERMIT DOCUMENTS - REVISED	10/02/2026
2	BIDDING DOCUMENTS	10/16/2026

POWER PLAN

Project No. 25083

Sheet No. E201

Date 10/16/2026

STATE OF MISSOURI
TODD LINUS KUNO
NUMBER PE-2015017018
10/16/2026
PROFESSIONAL ENGINEER

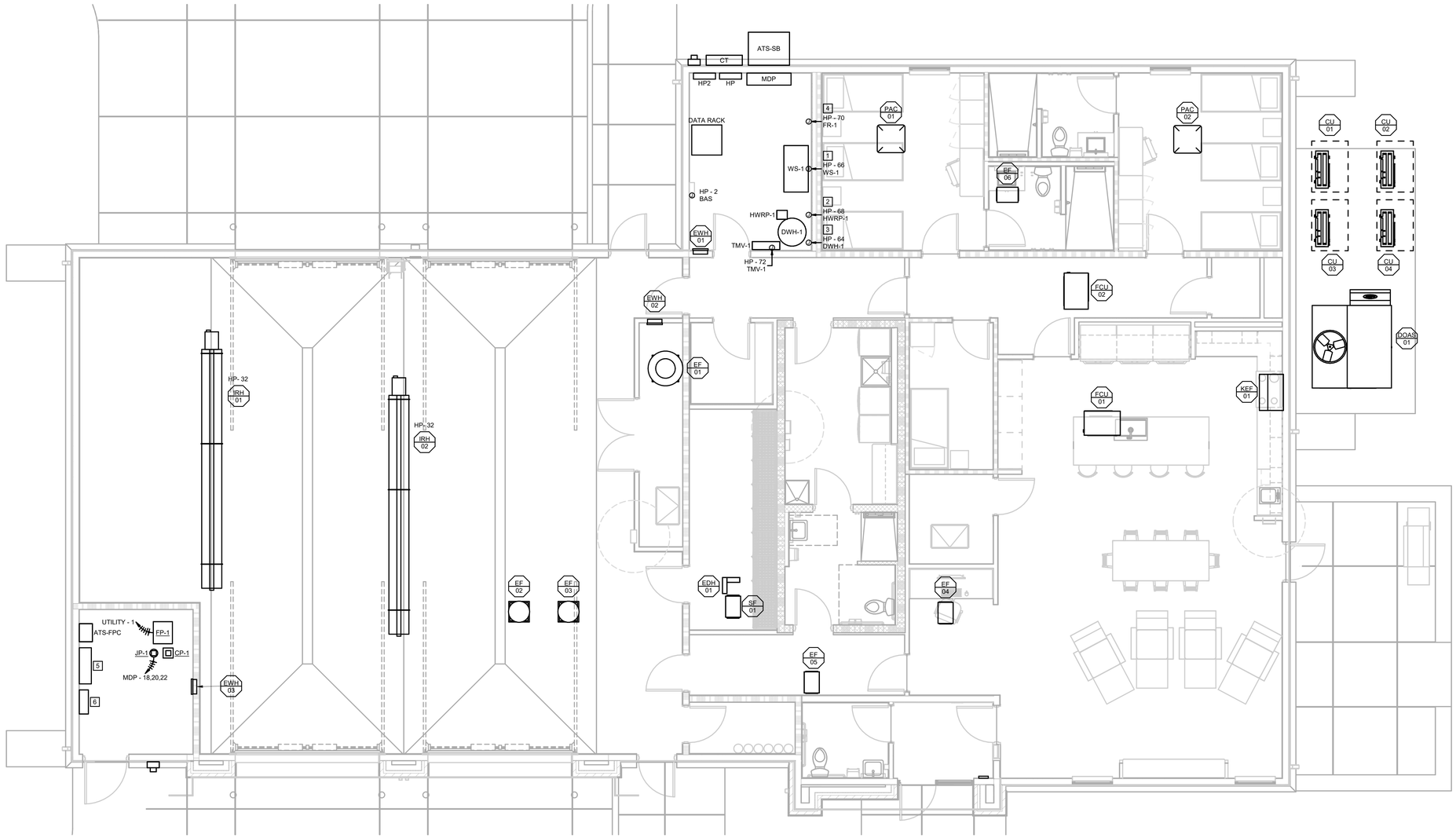
Name: Todd L. Kuno
Discipline: Professional Engineer
License No: 2015017018
Expiration Date: 12/31/2027

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SHEET E202 KEYED NOTES

#	
1	PROVIDE 120V TO 24VDC TRANSFORMER FOR WATER SOFTENER. PROVIDE FINAL CONNECTION. PROVIDE TOGGLE DISCONNECT SWITCH.
2	PROVIDE 120V 20AMP TOGGLE DISCONNECT AND FINAL CONNECTION TO PUMP.
3	PROVIDE 120V 20AMP TOGGLE DISCONNECT AND FINAL CONNECTION TO WATER HEATER.
4	PROVIDE 120V 20AMP LOCKABLE TOGGLE DISCONNECT (ON) AND FINAL CONNECTION TO FIRE PROTECTION AIR COMPRESSOR.
5	FIRE PUMP CONTROLLER.
6	JOCKEY PUMP CONTROLLER.



1 EQUIPMENT POWER FLOOR PLAN
1/4" = 1'-0"
0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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PROJECT
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EQUIPMENT POWER PLAN

Project No. 25083
Sheet No. E202
Date 10/16/2026

STATE OF MISSOURI
TODD LINUS KUNO
NUMBER PE-2015017018
10/16/2026
PROFESSIONAL ENGINEER

Name: Todd L. Kuno
Discipline: Professional Engineer
License No: 2015017018
Expiration Date: 12/31/2027

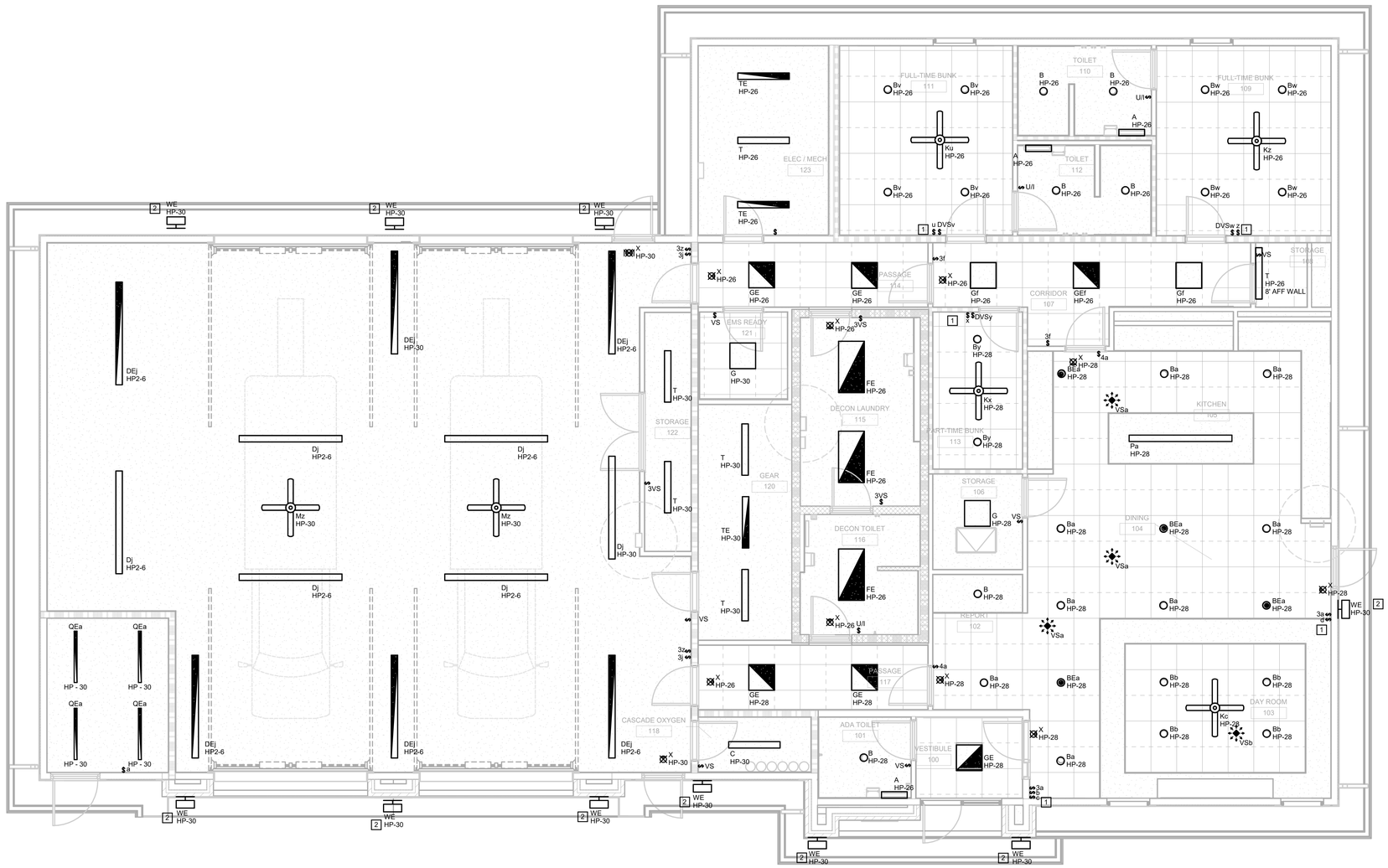
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SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 1" 6" 3" 0
SCALE: 1" = 1'-0" 2" 1" 6" 3" 0
SCALE: 3/4" = 1'-0" 2" 1" 6" 3" 0
SCALE: 1/2" = 1'-0" 4" 2" 1" 0
SCALE: 3/8" = 1'-0" 4" 2" 1" 0
SCALE: 1/4" = 1'-0" 8" 4" 2" 0
SCALE: 1/8" = 1'-0" 16" 8" 4" 0
SCALE: 3/32" = 1'-0" 24" 16" 8" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0

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SHEET E301 KEYED NOTES

#	
1	MINKA AIRE WALL CONTROLLER INCLUDED WITH FIXTURE. ELECTRICAL CONTRACTOR TO INSTALL.
2	CONNECT TO EXTERIOR LIGHTING CONTROLLER. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.



1 LIGHTING PLAN
1/4" = 1'-0"
0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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LIGHTING PLAN

Project No. 25083

Sheet No. E301

Date 10/16/2026

STATE OF MISSOURI
TODD LINUS KUNO
NUMBER PE-2015017018
10/16/2026
PROFESSIONAL ENGINEER

Name: Todd L. Kuno
Discipline: Professional Engineer
License No: 2015017018
Expiration Date: 12/31/2027

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SCALE: 1/16" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 3/16" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 3" = 1'-0"

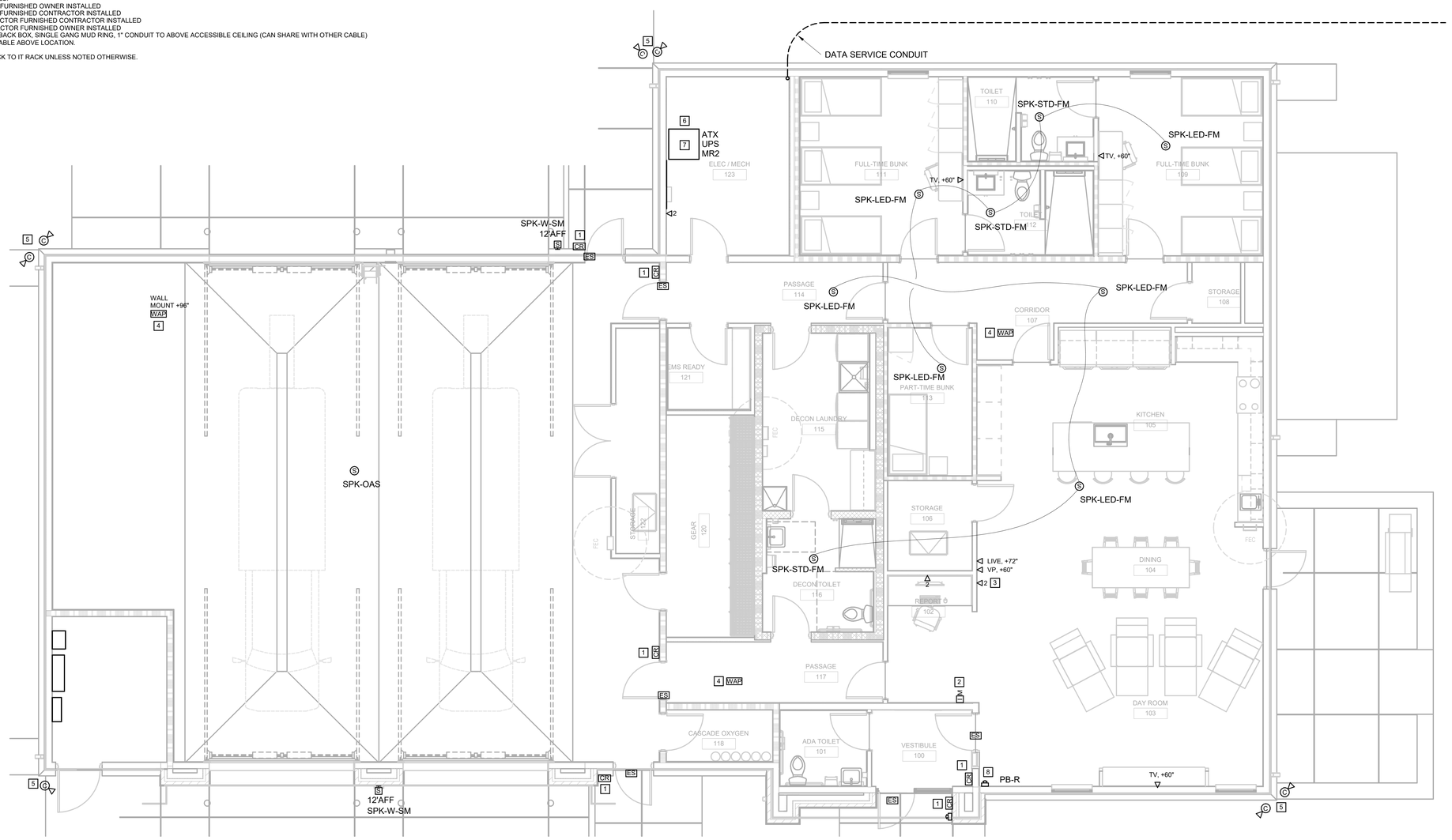
LOW VOLTAGE RESPONSIBILITY MATRIX

SYSTEM	COMPONENT	OFOI	OFCI	CFCI	CFOI	CABLE	REMARKS
Network Equipment and Hardware (Feathershark)	Network Rack/Cabinet		X				
	Unifi Dream Machine Pro	X					
	Unifi Pro Switches	X					
	Unifi Patch Cables	X					
	Netwrok UPS /Battery Backup	X					
	VoIP Phones	X				CAT6	W-RI
	Unifi U7 Pro Access Points		X			CAT6	C-RI
	Patch Panel		X				
	Wall and Floor Jacks			X		CAT6	
	Cat6 Cabling			X			CONTRACTOR TO TERMINATE BOTH ENDS AND TEST CABLE.
Camera Security (Feathershark)	Unifi Cameras		X			CAT6	PROVIDE BACK BOX, CABLE, AND CONDUIT TO CAMERA LOCATION. PROVIDE WEATHER SEAL
	Unifi Viewpoint		X				
	Unifi NVR Pro	X					PROVIDE ROUGH-IN WHERE REQUIRED. COORDINATE WITH VENDER.
Door Access and Gates (Feathershark)	Unifi Reader		X			CAT6	
	Unifi Enterprise Access Hub		X			CAT6	
	Unifi Reader Pro Junction Box		X				
	Unifi Intercom Viewer		X			CAT6	
	Electronic Door Strikes/Contacts			X		4 #18	FROM IT ROOM, TO ELECTRIC STRIKE FOR EACH CARD READER DOOR, PLUS 15' EACH SIDE
	18/4 Cabling			X			
	Cat6 Cabling			X			
TV Monitors (Feathershark)	Samsung TV - Size TBD		X				
	Samsung TV, LiveDash - Size TBD		X				
	Full Articulating TV Mount		X				
Conference Room (Feathershark)	Yealink Video Conferencing	X					PROVIDE ROUGH-IN WHERE REQUIRED. COORDINATE WITH VENDER.
Training Room (Feathershark)	Yealink Video Conferencing	X					PROVIDE ROUGH-IN WHERE REQUIRED. COORDINATE WITH VENDER.
Call System (Honeywell)	G2 PoE Port			X			NOTE 1
	G2 ATX Station Controller (ATX)		X				NOTE 1
	UPS (UPS-STD)		X				NOTE 1
	UPS Shelf-Bracket Wall-Mount (UPS-WMB)		X				NOTE 1
	G2 Color Indicator Remote		X			CAT6	NOTE 1, 2
	Push Button (PB-R)		X			2 #16	NOTE 1, 2
	G2 Messaeg Remote (MR-2)		X			CAT6	NOTE 1, 2
	G2 Room Remote 2(RR-2)		X			CAT6	NOTE 1, 2
	G2 LED Speaker (SPK-LED-FM)		X			2 PAIR 2 #16	NOTE 1, 2
	G2 Omnistrobe Speaker (SPK-OAS)		X			2 PAIR 2 #16	NOTE 1, 2
	Speaker Weather-Proof (SPK-W-SM)		X			2 PAIR 2 #16	NOTE 1, 2
	G2 Strobe Light (STR-2)		X			2 PAIR 2 #16	NOTE 1, 2

NOTES:
1. SHALL BE INSTALLED BY A **CERTIFIED HONEYWELL INSTALLER**.
2. CONTRACTOR TO PROVIDE ROUGH-IN AND CABLING FOR EQUIPMENT. EQUIPMENT NAME USED FOR REFERENCE. COORDINATE WITH HONEYWELL EQUIPMENT. FINAL EQUIPMENT TO BE INSTALLED UNDER ANOTHER CONTRACT.

GENERAL NOTES:
OFOI - OWNER FURNISHED OWNER INSTALLED
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI - CONTRACTOR FURNISHED OWNER INSTALLED
W-RI - 2 GANG BACK BOX, SINGLE GANG MUD RING, 1" CONDUIT TO ABOVE ACCESSIBLE CEILING (CAN SHARE WITH OTHER CABLE)
C-RI - COIL 5' CABLE ABOVE LOCATION.

ALL CABLE BACK TO IT RACK UNLESS NOTED OTHERWISE.



1 AUXILIARY FLOOR PLAN
1/4" = 1'-0"
0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

SHEET E401 KEYED NOTES

#	
1	PROVIDE CARD READER PRO. PROVIDE WITH CAT6 CABLE THAT HOMERUNS TO PATCH PANEL IN IT RACK. COORDINATE WITH FEATHERSHARK.
2	PROVIDE INTERCOM/VIEWER. PROVIDE WITH CAT6 CABLE THAT HOMERUNS TO PATCH PANEL IN IT RACK. COORDINATE WITH FEATHERSHARK.
3	PROVIDE DATA DROPS FOR VIEWPORT MONITOR AND LIVE DASH MONITOR. PROVIDE WITH CAT6 CABLE THAT HOMERUNS TO PATCH PANEL IN IT RACK. COORDINATE WITH FEATHERSHARK.
4	PROVIDE WITH CAT6 CABLE THAT HOMERUNS TO PATCH PANEL IN IT RACK FOR WAP. COORDINATE FINAL MOUNTING AND PLACEMENT WITH FEATHERSHARK.
5	PROVIDE CAMERA CABLE AND BACK BOX. INSTALL CAMERA FURNISHED BY OTHERS. PROVIDE CAT6 CABLE THAT HOMERUNS TO PATCH PANEL IN IT RACK. COORDINATE WITH FEATHERSHARK.
6	INSTALL ATX STATION CONTROLLER AND UPS. PROVIDE CAT6 AND 16/4 FROM ATX TO EXISTING STATION RADIO FOR BACK UP.
7	2 CIRCUITS, 2 QUADS (2 EACH SIDE OF RACK) 2 POST, 72" Tall (2) 24 PORT PATCH PANEL, 1U EACH (1) 8x4 GRADE A 2 HOUR PLYWOOD WALL SIDE (1) CIRCUIT EACH SIDE, 1 QUAD PER CIRCUIT
8	PROVIDE EMERGENCY ALERT BUTTON. COORDNATE WITH HONEYWELL.

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AUXILIARY PLAN

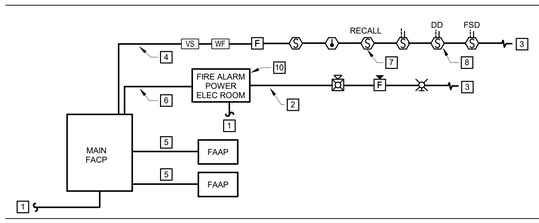
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Sheet No. E401
Date 10/16/2026

STATE OF MISSOURI
TODD LINUS KUNO
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10/16/2026
PROFESSIONAL ENGINEER

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FIRE ALARM RISER KEYED NOTES:

1. PROVIDE 120V CIRCUIT. SEE PLANS
2. 2 #12 AWG, FOR FIRE ALARM NOTIFICATION SPEAKERS DEVICES AND 2 #12 FOR FIRE ALARM STROBES.
3. END-OF-LINE DEVICE.
4. 2 #18 AWG, TWISTED PAIR, FOR FIRE ALARM INITIATION DEVICE.
5. 2 #14 AWG, 1/2" CONDUIT FOR 24VDC POWER.
6. PROVIDE CABLING AS REQUIRED BY MANUFACTURER. COORDINATE WITH VENDOR SITE SPECIFIC SHOP DRAWINGS.
7. SMOKE DETECTOR LOCATED IN ELEVATOR LOBBY. SEE SEQUENCE OF OPERATION AND MATRIX FOR PROGRAMMING OF SMOKE DETECTORS FOR ELEVATOR RECALL.
8. DUCT DETECTOR AND RELAY FOR AIR HANDLING UNIT SHUTDOWN AND SMOKE DAMPER CONTROL ACTIVATION. SEE SEQUENCE OF OPERATION AND MATRIX FOR PROGRAMMING. SEE PLANS FOR DUCT DETECTOR/SMOKE DAMPER LOCATIONS AND POWER.

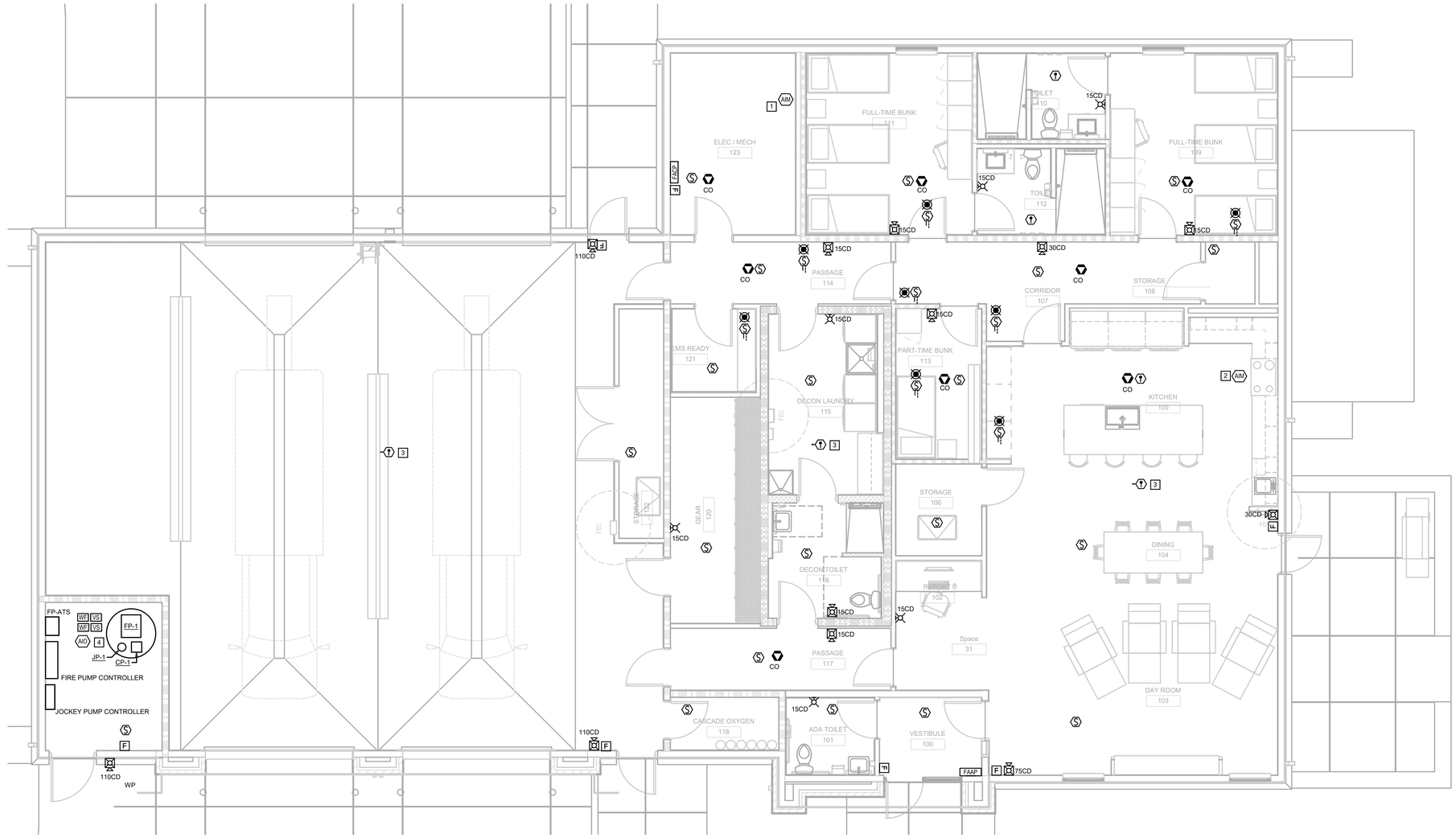
FIRE ALARM SYSTEM FUNCTION CHART

The System will Function as Shown in the Function Chart Below:

FIRE ALARM SYSTEM FUNCTION CHART — INPUT / OUTPUT	Smoke Detector(s) (General Area)	Manual Pull Station's	Waterflow Switch(es)	Tamper Switch(es)	Any Trouble on System	PIV	Kitchen Hood	Smoke Detector Bunk Room	Bunk Rm Carbon Monoxide Detector	Low Water Level on Fire Protection Outside Tank	Low Air on Dry Sprinkler Pipe	Fire Pump Run Status	Generator Running	Generator Common Alarm	Generator Output Circuit Breaker Serving Fire Pump
Annunciate Zone/Device on Fire Alarm Control Panel/Annunicators	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Activate Digital Communicator Contact for Alarm Condition	●	●	●	○	○	○	●	●	●	○	○	○	○	○	○
Activate Digital Communicator Contact for Trouble Condition	○	○	○	○	●	○	○	○	○	●	○	○	○	○	○
Activate Digital Communicator Contact for Supervisory Condition	○	○	○	●	○	●	○	○	○	●	●	○	○	○	○
Activate Audible/Visual Devices	●	●	●	○	○	○	●	●	●	○	○	○	○	○	○
Shutdown Air Handler Unit(s) (RTU, OA, FCU's)	●	●	●	○	○	○	○	○	●	○	○	○	○	○	○
Activate Smoke Detector Sounder Base	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○
Unlock Exterior Doors	●	●	●	○	○	○	○	●	○	○	○	○	○	○	○

SHEET E402 KEYED NOTES

1. CONTRACTOR TO PROVIDE FIRE PROTECTION MONITORING MODULES FOR TAMPER SWITCH, FLOW SWITCH AND AIR COMPRESSOR.
2. PROVIDE MONITORING RELAY FOR KITCHEN HOOD
3. PROVIDE LINEAR HEAT DETECTOR IN ATTIC. PROVIDE CONTROL DEVICE (NEAR CEILING) AND REMOTE INDICATOR IN BAY (+54").
4. PROVIDE TAMPER SWITCHES, FLOW SWITCHES, AND ADDRESSABLE MODULE FOR FIRE PUMP AND FIRE PUMP ATS AS REQUIRED. PROVIDE FIRE ALARM MODULES TO MONITOR THE FOLLOWING FIRE PUMP CONTROLLER CONDITIONS: FIRE PUMP RUNNING, FIRE PUMP PHASE LOSS, FIRE PUMP PHASE REVERSAL, FIRE PUMP CONTROLLER ON ALTERNATE SOURCE, FIRE PUMP ALTERNATE SOURCE BREAKER OPEN, AND FIRE PUMP CONTROLLER SYSTEM TROUBLE.



1 FIRE ALARM PLAN
1/4" = 1'-0"
0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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EXPIRATION DATE: DECEMBER 31, 2026

PROJECT
MERAMEC AMBULANCE DISTRICT - STATION NO. 4
365 OLD MANCHESTER ROAD PACIFIC, MO 63069

No.	Date	Revision
	04/17/2026	PERMIT DOCUMENTS
	10/02/2026	PERMIT DOCUMENTS - REVISED
A	10/15/2026	PLAN REVIEW CORRECTIONS
	10/16/2026	BIDDING DOCUMENTS

FIRE ALARM PLAN

Project No. 25083

Sheet No. E402

Date 10/16/2026

STATE OF MISSOURI — TODD LINUS KUNO — NUMBER PE-2015017018 — 10/15/2026 — PROFESSIONAL ENGINEER

Name: Todd L. Kuno
Discipline: Professional Engineer
License No: 2015017018
Expiration Date: 12/31/2027

THE PROFESSIONALS WHOSE SIGNATURES AND SEALS APPEAR ON THIS SHEET ARE RESPONSIBLE FOR ONLY THOSE PORTIONS OF THE PLANS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS, DESIGN OR REVISIONS BY CONTRACTORS, OWNER OR OTHERS ARE NOT PART OF THE PROJECT AND THE SEAL INDICATES RESPONSIBILITY

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	APPARENT LOAD	CATALOG	LAMP TYPE	FINISH	MOUNTING	REMARKS
A	METALUX	18 VA	2BCLED-L04-20SL-F-UNV-L835-CD1-U	LED	WHITE	WALL	2' WALL MOUNTED STRIP FIXTURE. 2000 LUMENS. 3500K.
B	HALO COMMERCIAL	22 VA	PR6FS24D010-PR6M24MD8FSMW	LED	WHITE	RECESSED	6" RECESSED DOWNLIGHT. 2000 LUMENS. 3500K.
BE	HALO COMMERCIAL	22 VA	PR6FS24D010-PR6M24MD8FSMW-REMV14	LED	WHITE	RECESSED	6" RECESSED DOWNLIGHT. 2000 LUMENS. 3500K. PROVIDE WITH BATTERY BACKUP.
C	KENALL	49 VA	ES548-1-45L35K-DCC-1DV-PP	LED	WHITE	SURFACE	4' SURFACE MOUNTED FIXTURE. 4500 LUMENS. 3500K.
D	KENALL	98 VA	ES596-1-45L35K-DCC-1DV-PP	LED	WHITE	SURFACE	8' SURFACE MOUNTED FIXTURE. 9000 LUMENS. 3500K.
DE	KENALL	98 VA	ES596-1-45L35K-DCC-1DV-PP-LEL	LED	WHITE	SURFACE	8' SURFACE MOUNTED FIXTURE. 9000 LUMENS. 3500K. PROVIDE WITH BATTERY BACKUP.
FE	DAYBRITE	31 VA	2SBP-3050L-8CS-4-UNV-DIM-BSL310RM	LED	WHITE	RECESSED	2X4 FLAT PANEL. 3900 LUMENS. 3500K. PROVIDE WITH BATTERY BACKUP.
G	DAYBRITE	20 VA	2SBP-2035L-8CS-2-UNV-DIM	LED	WHITE	RECESSED	2X2 FLAT PANEL. 2700 LUMENS. 3500K.
GE	DAYBRITE	20 VA	2SBP-2035L-8CS-2-UNV-DIM-BSL310RM	LED	WHITE	RECESSED	2X2 FLAT PANEL. 2700 LUMENS. 3500K. PROVIDE WITH BATTERY BACKUP.
K	MINKA AIRE	70 VA	F727-ORB	NA	BROWN	SURFACE	52" BLADE SPIN CEILING FAN WITH 6" DOWNROD.
M	WESTINGHOUSE	60 VA	7812700 JAX	NA	STEEL	SURFACE	56" STEEL BLADE CEILING FAN
P	FLUXWERX	22 VA	PM1-F-A-B-35-W-08-D-F2-M-03	LED	WHITE	PENDANT	8' PENDANT FIXTURE ON 3' SUSPENSION. 3500K.
QE	METALUX	26 VA	4SNX-41SL-LW-UNV-L835-CD1-U-AYC-CHAIN/SET-U	LED	WHITE	HUNG	4' COMMERCIAL LED STRIPLIGHT. 3848 LUMENS. 3500K. PROVIDE WITH 2 HOUR BATTERY BACKUP. CHAIN HANG TO 9' A.F.F.
S	COOPER	151 VA	PRV-PA2B-740-IJ-T4W	LED	BLACK	POLE	16' BLACK SQUARE TAPERED STEEL POLE
SP	LUMARK	0 VA	NFFLD-S-C15-D-UNV-66-S-CB	LED	BRONZE		FLAG POLE LIGHTING. APPROX. 5800 LUMEN. 4000K.
T	METALUX	21 VA	4SNLED-LD5-27SL-LW-UNV-L835-CD1-U	LED	WHITE	SURFACE	4' SURFACE MOUNTED STRIP FIXTURE. 2700 LUMENS. 3500K.
TE	METALUX	21 VA	4SNLED-LD5-27SL-LW-UNV-L835-CD1-U-EL7W	LED	WHITE	SURFACE	4' SURFACE MOUNTED STRIP FIXTURE. 2700 LUMENS. 3500K. PROVIDE WITH BATTERY BACKUP
WE	LUMARK	26 VA	XTOR3B-W-BZ-PC1	LED	BRONZE	WALL	EXTERIOR WALL PACK. 2700 LUMENS. 4000K. PROVIDE WITH BATTERY BACK UP
X	LIGHTALARM	5 VA	QLX500RN-RID	LED	WHITE	SURFACE	PLASTIC EXIT SIGN. RED LETTERING AND FEILD SELECTABLE CHEVRONS.

EDS MECHANICAL Schedule

MARK	MOTOR OR EQUIPMENT DATA: FURN. BY	HP/KW/MCA (1)	PANEL	V	PH	FEEDER	INST. BY / CONN. BY	DISCONNECT SWITCH AT EQUIPMENT: TYPE (2)	SIZE	FURN. BY	INST. BY / CONN. BY	STARTER: TYPE (3)	ACCESSORIES (4)	FURN. BY	INST. BY / CONN. BY	REMOTE CONTROL: TYPE (5)	FURN. BY	INST. BY / CONN. BY	REMARKS
CU 01	23	13.4 MCA	HP2	208 V	1	2#12, #12G, 1/2"C	23/26	NF	15 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
CU 02	23	13.4 MCA	HP2	208 V	1	2#10, #10G, 1/2"C	23/26	NF	15 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
CU 03	23	26.4 MCA	HP2	208 V	1	2#10, #10G, 1/2"C	23/26	NF	30 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
CU 04	23	13.4 MCA	HP2	208 V	1	2#12, #12G, 1/2"C	23/26	NF	15 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
DOAS 01	23	44 MCA	MDP	208 V	3	3#4, #4N, #10G, 1-1/4"C	23/26	NF	60 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
EDH 01	23	7 kW	MDP	208 V	1	2#6, #10G, 3/4"C	23/26	NF	50 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
EF 01	23	1/4 HP	HP	120 V	1	1#12, #12N, #12G, 1/2"C	23/26	NF	20 A	23	23/26	COMBO	-	26	26/26	SS	23	23/23	
EF 02	23	1/4 HP	HP	120 V	1	1#12, #12N, #12G, 1/2"C	23/26	NF	20 A	23	23/26	COMBO	-	26	26/26	SS	23	23/23	
EF 03	23	1/4 HP	HP	120 V	1	1#12, #12N, #12G, 1/2"C	23/26	NF	20 A	23	23/26	COMBO	-	26	26/26	SS	23	23/23	
EF 04	23	1/4 HP	HP	120 V	1	1#12, #12N, #12G, 1/2"C	23/26	NF	20 A	23	23/26	COMBO	-	26	26/26	SS	23	23/23	
EF 05	23	1/4 HP	HP	120 V	1	1#12, #12N, #12G, 1/2"C	23/26	NF	20 A	23	23/26	COMBO	-	26	26/26	SS	23	23/23	
EF 06	23	1/4 HP	HP	120 V	1	1#12, #12N, #12G, 1/2"C	23/26	NF	20 A	23	23/26	COMBO	-	26	26/26	SS	23	23/23	
EWH 01	23	19.2 A	MDP	208 V	1	2#10, #10G, 1/2"C	23/26	NF	30 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
EWH 02	23	19.2 A	MDP	208 V	1	2#10, #10G, 1/2"C	23/26	NF	30 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
EWH 03	23	19.2 A	MDP	208 V	1	2#10, #10G, 1/2"C	23/26	NF	30 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
FCU 01	23	1.7 A	HP2	208 V	1	2#10, #10G, 1/2"C	23/26	NF	30 A	23	26/26	PWCP	-	23	23/23	SS	23	23/23	
FCU 02	23	1.7 A	HP2	208 V	1	2#12, #12G, 1/2"C	23/26	NF	15 A	23	26/26	PWCP	-	23	23/23	SS	23	23/23	
KEF 01	23	1.4 A	HP	120 V	1	1#12, #12N, #12G, 1/2"C	23/26	NF	20 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
PAC 01	23	-	HP2	208 V	1	2#12, #12G, 1/2"C	23/26	NF	15 A	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
PAC 02	23	-	HP2	208 V	1	2#10, #12G, 1/2"C	23/26	NF	15 A	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
SF 01	23	1/4 HP	HP	120 V	1	1#12, #12N, #12G, 1/2"C	23/26	NF	20 A	23	23/26	PWCP	-	23	23/23	SS	23	23/23	

EDS PLUMBING Schedule

MARK	MOTOR OR EQUIPMENT DATA: FURN. BY	HP/KW/MCA (1)	PANEL	V	PH	FEEDER	INST. BY / CONN. BY	DISCONNECT SWITCH AT EQUIPMENT: TYPE (2)	SIZE	FURN. BY	INST. BY / CONN. BY	STARTER: TYPE (3)	ACCESSORIES (4)	FURN. BY	INST. BY / CONN. BY	REMOTE CONTROL: TYPE (5)	FURN. BY	INST. BY / CONN. BY	REMARKS
DWH-1	22	1 kW	HP	120 V	1	1#12, #12N, #12G, 1/2"C	22/26	NF	20 A	26	26/26	PWCP	-	22	22/22	SS	22	22/22	
WS-1	22		HP	120 V	1	1#12, #12N, #12G, 1/2"C	22/26	NF	20 A	26	26/26	PWCP	-	22	22/22	SS	22	22/22	
HWRP-1	22		HP	120 V	1	1#12, #12N, #12G, 1/2"C	22/26	NF	20 A	26	26/26	PWCP	-	22	22/22	SS	22	22/22	
TMV-1	22		HP	120 V	1	1#12, #12N, #12G, 1/2"C	22/26	NF	20 A	26	26/26	PWCP	-	22	22/22	SS	22	22/22	
FP-1	21	20 HP	UTILITY	208 V	3	3#1/0, 1 #1/0N, #6G, 2"C	21/21	NF	140 A	26	26/26	PWCP	-	21	21/26	SE	21	21/21	SE Rated with ATS
JP-1	21	3/4 HP	MDP	208 V	3	3 #12, 1 #12G, 1/2"C	21/21	NF	15 A	26	26/26	PWCP	-	21	21/26	SE	21	21/21	
WP-1	33	10 HP	MDP	208 V	3	3 #6, 1 #10G, 3/4"C	33/33	NF	60 A	26	26/26	PWCP	-	33	33/26	SE	33	33/33	
CP-1	22	3/4 HP	HP2	208 V	3	3 #12, 1 #12G, 1/2"C	22/22	NF	15 A	26	22/26	PWCP	-	22	22/26	SE	21	21/21	

GENERAL NOTES:
WHEN ELECTRICALLY DRIVEN EQUIPMENT FURNISHED, MATERIALLY DIFFERS FROM THE CONTEMPLATED DESIGN, THE CONTRACTOR SUPPLYING THE DRIVING EQUIPMENT SHALL PAY FOR AND MAKE NECESSARY ADJUSTMENTS TO THE WIRING, DISCONNECT DEVICES AND BRANCH-CIRCUIT PROTECTION TO ACCOMMODATE THE EQUIPMENT ACTUALLY INSTALLED.
11 = EQUIPMENT CONTRACTOR 21 = FIRE SUPPRESSION CONTRACTOR 22 = PLUMBING CONTRACTOR 23 = HVAC CONTRACTOR 26 = ELECTRICAL CONTRACTOR 33 = SITE UTILITIES CONTRACTOR NF = NON-FUSIBLE SWITCH FS = FUSIBLE SWITCH
PWCP = PREWIRED CONTROL PANEL M = MANUAL MOTOR STARTER EC = ELECTRICAL CONTRACTOR MCA = MINIMUM CIRCUIT AMPACITY STCB = SHUNT TRIP CIRCUIT BREAKER

1. MOTOR OR EQUIPMENT DATA HP/KW MCA:
HORSEPOWER (HP) IS SHOWN UNLESS AMPS (A), MINIMUM CIRCUIT AMPACITY (MCA) OR KILOWATTS (KW) ARE CALLED OUT.

2. DISCONNECT SWITCH TYPE:
NF = NON FUSIBLE F = FUSIBLE TS = TOGGLE SWITCH M = MANUAL STARTER

3. STARTER TYPE:
COMB = COMBINATION MAGNETIC FVNR WITH FUSIBLE DISCONNECT SWITCH PWCP = PREWIRED CONTROL PANEL M = MANUAL MOTOR STARTER 2SP = 2 SPEED FVNR = FULL VOLTAGE NON-REVERSIBLE SWITCH
VFD = VARIABLE FREQUENCY DRIVE

4. ACCESSORIES:
HOA = HAND-OFF AUTO SELECTOR SWITCH N.O. = NORMALLY OPEN AUXILIARY CONTACT N.C. = NORMALLY CLOSED AUXILIARY CONTACT P = PILOT LIGHT (GREEN - RUN)

5. REMOTE CONTROL:
AQ = AQUSTSAT FAI = FIRE ALARM INTERLOCK SE = SEE OTHER SCOPES OF WORK FOR CONTROLS SS = SEE MECHANICAL SPECIFICATIONS SP = SINGLE POLE SINGLE THROW TOGGLE WITH PILOT LIGHT TS = THERMOSTAT (LINE VOLTAGE)
TC = TIME CLOCK O/A = ON/AUTO SWITCH O/A/O = ON/AUTO/OFF SWITCH O/A/O/L = OUTSIDE AIR/AUTO/OFF WITH LAMPS TO SHOW POSITION

VFD NOTE:
VFD WITH REMOTE DISCONNECT: CONTRACTOR TO PROVIDE VFD EARLY BREAK AUXILIARY CONTACT IN DISCONNECT AND PROVIDE 600V RATED CONTROL WIRE BACK TO VFD PER MANUFACTURE REQUIREMENTS.

FEEDER:
(3)3-300kcmil, 300kcmilN, 1/0G, 2-1/2"C

- CONDUIT
- SIZE GROUNDING CONDUCTOR
- SIZE GROUNDED CONDUCTOR
- SIZE OF CURRENT CARRYING CONDUCTOR
- NUMBER CURRENT CARRYING CONDUCTOR
- NUMBER OF SETS OF CURRENT CARRYING CONDUCTORS, GROUNDED CONDUCTOR, GROUNDING CONDUCTOR AND CONDUIT

Panelboard: MDP — **Mounting: SURFACE** — **Location: ELEC / MECH 123** — **MIN SCCR: 16739 A**
Volts: 120/208 Wye — **Phases: 3** — **Bus Amp: 600** — **Feed From: ATS-SB**
Wire: 4 — **Mains: MCB** — **MCB Rating 600**

Circuit Description	Amps	Pole	Type	CKT	A		CKT	B		CKT	C		CKT	Type	Pole	Amps	Circuit Description
PANEL HP	200 A	3		1	14754	--							2				
				3			15025	--					4		3	--	PANEL HP CB SPACE
				5						14267	--		6				
PANEL HP2	200 A	3		7	4172	5284							8				
				9			5039	5284					10		3	60 A	DOAS-01
				11						9421	5284		12				
EWH-01	30 A	2		13	2000	3500							14				
				15			2000	3500					16		2	50 A	EDH-01
EWH-02	30 A	2		17						2000	187		18				
				19	2000	187							20		3	15 A	JP-1
EWH-03	30 A	2		21			2000	187					22				
				23						2000	0		24				
WP-1	50 A	3		25	2486	0							26		3	60 A	SPD
				27			2486	0					28				
				29						2486	--		30				
SPACE	--	2		31	--	--							32		3	--	SPACE
				33			--	--					34				
			Phase Load:		34.38 kVA			35.52 kVA			35.64 kVA						
			Phase Amps:		286.50 A			297.45 A			298.47 A						
			Total Load:		105.54 kVA								Total Conn. Amp:				293 A
			Total Est. Demand:		101 kVA								Total Est. Demand Amp:				280 A

NOTE: PROVIDE NEXT AVAILABLE SCCR ABOVE LISTED MIN SCCR.

Panelboard: HP — **Mounting: SURFACE** — **Location: ELEC / MECH 123** — **MIN SCCR: 14754 A**
Volts: 120/208 Wye — **Phases: 3** — **Bus Amp: 200** — **Feed From: MDP**
Wire: 4 — **Mains: MLO** — **MCB Rating MLO**

Circuit Description	Amps	Pole	Type	CKT	A		CKT	B		CKT	C		CKT	Type	Pole	Amps	Circuit Description
Receptacles - Full Time Bunk 111	20 A	1		1	900	540							2		1	20 A	Receptacles - Apparatus Bay
Receptacles - Full Time Bunk 109	20 A	1		3			900	540					4		1	20 A	Receptacles - Apparatus Bay
Receptacles - Corridor	20 A	1		5						900	1000		6		1	20 A	Motor - Apparatus Bay Garage Opener
Receptacles - Corridor	20 A	1		7	1260	1000							8		1	20 A	Motor - Apparatus Bay Garage Opener
Receptacles - Kitchen, Counter	20 A	1		9			540	1000					10		1	20 A	Motor - Apparatus Bay Garage Opener
Receptacles - Kitchen, Counter	20 A	1		11						360	1000		12		1	20 A	Motor - Apparatus Bay Garage Opener
Receptacles - Kitchen, Island	20 A	1		13	360	1000							14	G	1	20 A	Receptacles - Apparatus Bay, Cord Reel
Receptacles - Kitchen, Fridge	20 A	1	G	15			1000	1000					16	G	1	20 A	Receptacles - Apparatus Bay, Cord Reel
Receptacles - Kitchen, Fridge	20 A	1	G	17						1000	1000		18	G	1	20 A	Receptacles - Apparatus Bay, Cord Reel
Receptacles - Kitchen, Fridge	20 A	1	G	19	1000	1000							20	G	1	20 A	Receptacles - Apparatus Bay, Cord Reel
Receptacles - Kitchen, Microwave	20 A	1		21			1200	180					22	R	1	20 A	FACP
Receptacles - Kitchen, Dishwasher	20 A	1		23						1000	180		24		1	20 A	Junction Box - LIGHTING CONTROLLER
Receptacles - Kitchen, Garbage Disposal	20 A	1		25	500	738							26		1	20 A	Lighting - House
Receptacles - Kitchen, Stove	20 A	2		27			1250	679					28		1	20 A	Lighting - House
				29						1250	857	30			1	20 A	Lighting - Apparatus
Junction Box - Kitchen, Hood	20 A	1		31	1000	0							32		1	20 A	IRH 01 / 02
Junction Box - Kitchen, Solenoid Valve	20 A	1		33			180	1176					34		1	20 A	EF-01
Receptacles - Day Room	20 A	1		35						720	1176	36			1	20 A	EF-02
Receptacles - Day Room	20 A	1		37	540	1176							38		1	20 A	EF-03
Receptacles - Storage	20 A	1		39			900	0					40		1	20 A	EF-04
Receptacles - Decon Laundry	20 A	1		41						900	0	42			1	20 A	EF-05
Receptacles - Decon Laundry, Washer	20 A	1	G	43	1000	0							44		1	20 A	EF-06
Receptacles - Decon Laundry, Washer	20 A	1	G	45			1000	1176					46		1	20 A	SF-01
Receptacles - Decon Laundry, Dryer	30 A	2	G	47						1750	0	48			1	20 A	SPARE
				49	1750	0							50		1	20 A	SPARE
Receptacles - Exterior	20 A	1		51			1260	0					52		1	20 A	SPARE
Lighting - Site	20 A	2		53						227	0	54			1	20 A	SPARE
				55	227	0							56		1	20 A	SPARE
GENERATOR REC	20 A	1		57			360	0					58		1	20 A	SPARE
GENERATOR HEATER	20 A	2		59						90	0	60			1	20 A	SPARE
				61	90	0							62		1	20 A	SPARE
GENERATOR BATTERY CHARGER	20 A	1		63			180	180					64		1	20 A	DWH-01
IT Rack	20 A	1		65						360	180	66			1	20 A	WS-01
IT Rack	20 A	1		67	360	180							68		1	20 A	HWRP-01
Receptacles - EMS Ready, Battery Charger	20 A	1		69			180	180					70		1	20 A	FR-1
Receptacles - EMS Ready, Battery Charger	20 A	1		71						180	180	72			1	20 A	TMV-01
Receptacles - EMS Ready, Battery Charger	20 A	1		73	180	0							74		1	20 A	Lighting - Flag Pole
SPARE	20 A	1		75			0	0					76		1	20 A	SPARE
SPARE	20 A	1		77						0	0	78			1	20 A	SPARE
SMOKE DAMPER	20 A	1	R	79	5	0							80		1	20 A	SPARE
SPARE	20 A	1		81			0	0					82		1	20 A	SPARE
SPARE	20 A	1		83						0	0	84			1	20 A	SPARE
			Phase Load:		14.75 kVA			15.02 kVA			14.27 kVA						
			Phase Amps:		123.57 A			125.83 A			118.89 A						
			Total Load:		44.04 kVA								Total Conn. Amp:				122 A
			Total Est. Demand:		40 kVA								Total Est. Demand Amp:				110 A

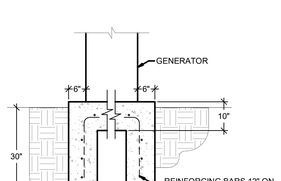
NOTE: PROVIDE NEXT AVAILABLE SCCR ABOVE LISTED MIN SCCR.

Panelboard: HP2 — **Mounting: SURFACE** — **Location: ELEC / MECH 123** — **MIN SCCR: 14248 A**
Volts: 120/208 Wye — **Phases: 3** — **Bus Amp: 200** — **Feed From: MDP**
Wire: 4 — **Mains: MLO** — **MCB Rating MLO**

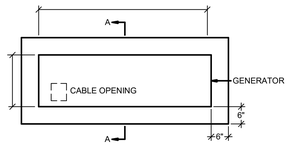
Circuit Description	Amps	Pole	Type	CKT	A		CKT	B		CKT	C		CKT	Type	Pole	Amps	Circuit Description
STORM DAMPER	20 A	1		1	0	180							2		1	20 A	BAS PANEL
				3			187	360					4		1	20 A	Receptacles
CP-1	20 A	3		5						187	980	6			1	20 A	Lighting - Bay Lights
				7	187								8				
				9									10				
				11									12				
				13									14				
				15									16				
				17									18				
				19									20				
SPARE	20 A	1		21			0	0					22		1	20 A	SPARE
SPARE	20 A	1		23						0	0	24			1	20 A	SPARE
SPARE	20 A	1		25	0	0							26		1	20 A	SPARE
SPARE	20 A	1		27			0	0					28		1	20 A	SPARE
SPARE	20 A	1		29						0	0	30			1	20 A	SPARE
SPARE	20 A	1		31	0	0							32		1	20 A	SPARE
SPARE	20 A	1		33			0	0					34		1	20 A	SPARE
CU-01 / PAC-01	15 A	2		35						1394	2412	36			2	15 A	CU-02 / PAC-02
				37	1394	2412							38				
CU-03 / FCU-01	30 A	2		39			2922	1570					40		2	15 A	CU-04 / FCU-02
				41						2922	1570	42					
			Phase Load:		4.17 kVA			5.04 kVA			9.42 kVA						
			Phase Amps:		34.77 A			43.11 A			79.62 A						
			Total Load:		18.63 kVA								Total Conn. Amp:				52 A
			Total Est. Demand:		19 kVA								Total Est. Demand Amp:				52 A

NOTE: PROVIDE NEXT AVAILABLE SCCR ABOVE LISTED MIN SCCR.

CIRCUIT BREAKER ABBREVIATIONS:
G - GFCI (5mA)
A - AFCI
GA - GFCI / AFCI COMBO
GE - GFI (30mA)
LO - LOCKABLE
R - RED (LOCKABLE ON)
NT - NONE TRIP
ST - SHUNT TRIP
LS – LONG, SHORT TRIP (INDEPENDENT ADJUSTABLE)
LSI – LONG, SHORT, INSTANTANEOUS TRIP (INDEPENDENT ADJUSTABLE)
LSIG – LONG, SHORT, INSTANTANEOUS, GROUND FAULT (INDEPENDENT ADJUSTABLE)
LSIA - LONG, SHORT, INSTANTANEOUS TRIP, ALARM (INDEPENDENT ADJUSTABLE)



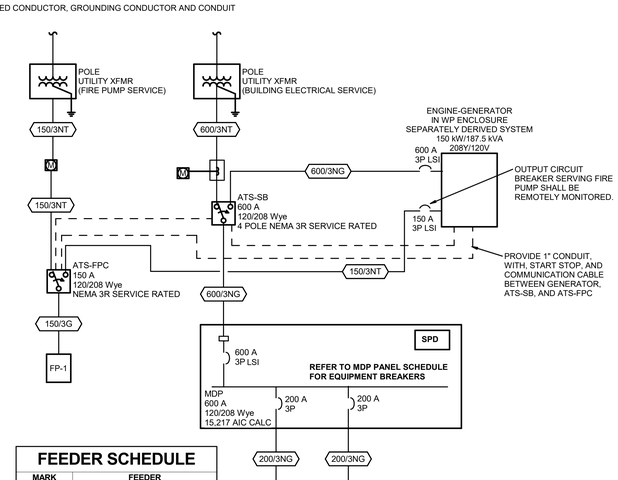
SECTION A-A



GENERATOR PAD GENERAL NOTES:

1. CONCRETE SHALL BE 3,000 lb, 3/4" AGGREGATE WITH JUST ENOUGH WATER TO MAKE WORKABLE MIX.
2. ALL REINFORCING STEEL SHALL BE #4 ROUND DEFORMED BARS.
3. GENERATOR PAD SHALL BE MINIMUM 6" LARGER THAN ENCLOSURE FOOTPRINT ON ALL SIDES. COORDINATE OPENING SIZE WITH MANUFACTURER.

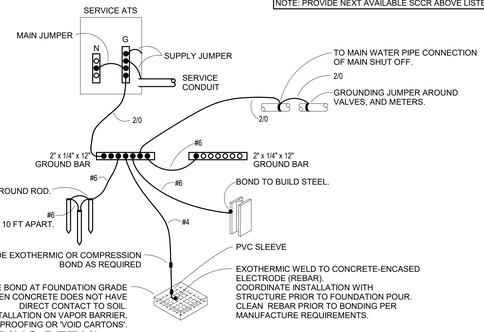
2 GENERATOR ENCLOSURE PAD DETAIL
N.T.S.



FEEDER SCHEDULE

MARK	FEEDER
150/3G	(2)3-350kcmil, 350kcmil N, #1G, 3"C
150/3NT	(2)3-350kcmil, 350kcmil N, #1G, 3"C
200/3NG	3-3/0, 3/0N, #6G, 2"C
600/3NG	(2)3-350kcmil, 350kcmil N, #1G, 3"C
600/3NT	(2)3-350kcmil, 350kcmil N, #2G, 3"C

3 ONE-LINE DIAGRAM
N.T.S.



1 GROUNDING DETAIL
N.T.S.

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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

PROJECT
MERAMEC AMBULANCE
DISTRICT - STATION NO. 4
365 OLD MANCHESTER ROAD
PACIFIC, MO 63069

No.	Revision	Date
	PERMIT DOCUMENTS	04/17/2026
	PERMIT DOCUMENTS - REVISED	10/02/2026
A	PLAN REVIEW CORRECTIONS	10/15/2026
	BIDDING DOCUMENTS	10/16/2026

ELECTRICAL SCHEDULES

Project No. 25083

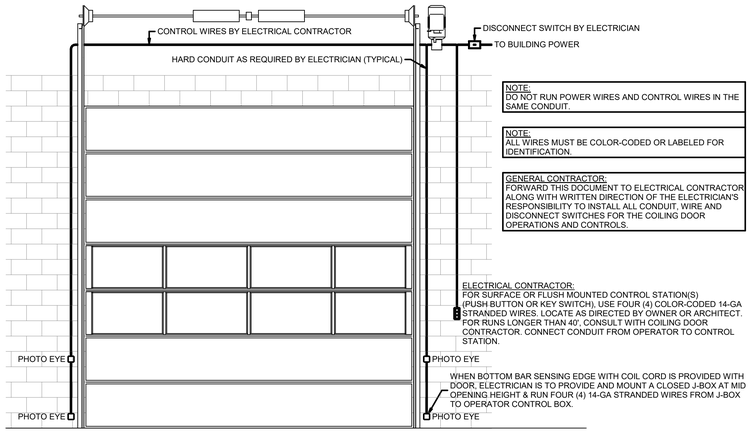
Sheet No. E501

Date 10/16/2026

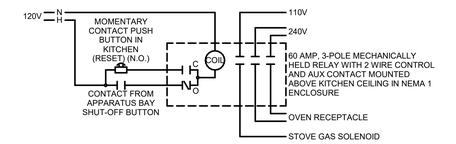
STATE OF MISSOURI
TODD LINUS KUNO
NUMBER PE-2015017018
10/16/2026
PROFESSIONAL ENGINEER

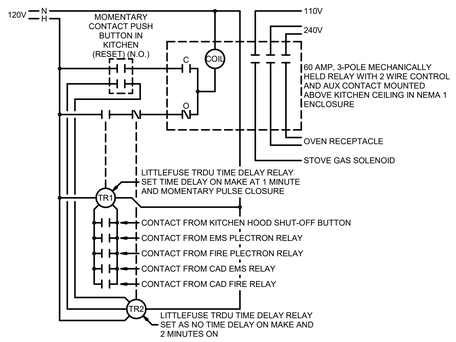
Name: Todd L. Kuno
Discipline: Professional Engineer
License No: 2015017018
Expiration Date: 12/31/2027

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1 OVERHEAD DOOR CONNECTION DETAIL
N.T.S.

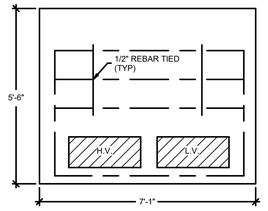




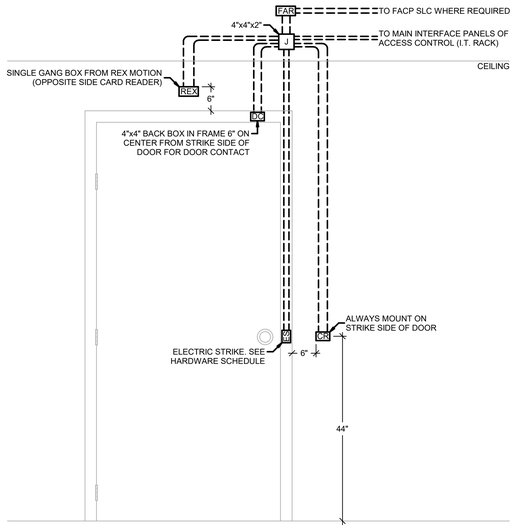
2 OVEN & STOVE SHUT-OFF
N.T.S.

GENERAL NOTES (THIS DETAIL ONLY):

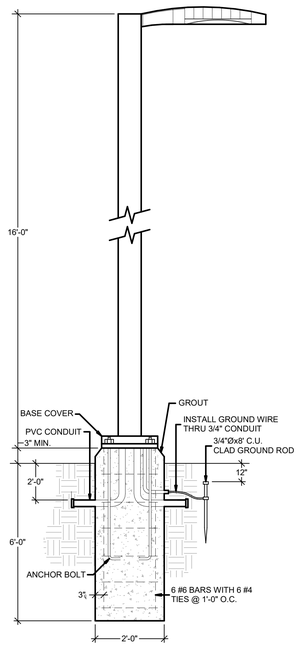
1. 8" PAD HEIGHT.
2. FORM SHADED AREA WITHOUT CENTER BREAK. DO NOT ENCAPSULATE CONDUITS IN CONCRETE.
3. CONTAIN APPROPRIATE CONDUITS WITHIN EACH AREA HOLDING TO FRONT AND OUTSIDE EDGES.



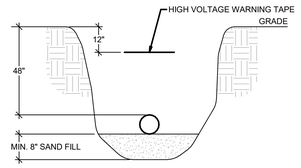
3 TRANSFORMER PAD DETAIL
N.T.S.



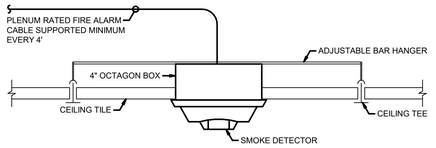
4 ACCESS CONTROL DETAIL
N.T.S.



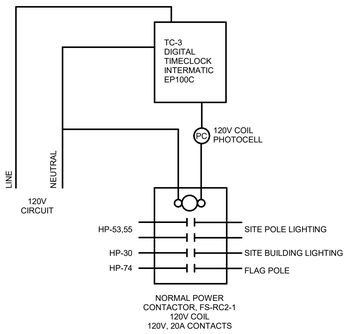
5 POLE MOUNTED FIXTURE MOUNTING DETAIL
N.T.S.



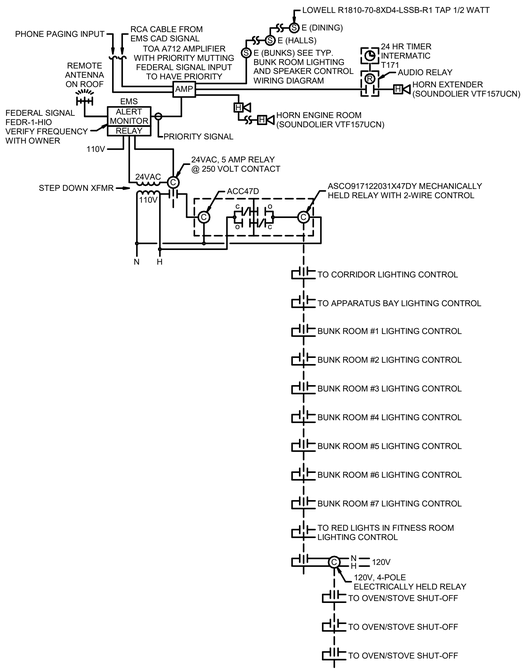
6 PRIMARY CONDUIT BURIAL DETAIL
N.T.S.



7 TYPICAL SMOKE DETECTOR INSTALLATION DETAIL
N.T.S.



8 EXTERIOR LIGHTING CONTROLS
N.T.S.



9 EMS ALARM PLECTRON CONTROL SCHEMATIC
N.T.S.

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ELECTRICAL DETAILS

Project No. 25083

Sheet No. E502

Date 10/16/2026

STATE OF MISSOURI
TODD LINUS KUNO
NUMBER PE-2015017018
10/16/2026
PROFESSIONAL ENGINEER

Name: Todd L. Kuno
Discipline: Professional Engineer
License No: 2015017018
Expiration Date: 12/31/2027

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