MEHLVILLE FIREHOUSE #5

MEHLVILLE FIRE PROTECTION DISTRICT

11020 MUELLER ROAD
ST. LOUIS, MO. 63123

CONSTRUCTION DOCUMENTS — MARCH 15, 2024

ARCHITECTURAL

ARCHIMAGES, INC
143 WEST CLINTON PLACE
SAINT LOUIS, MISSOURI 63122
T: 314-965-7445
www.archimages-stl.com

STRUCTURAL

KPFF
1630 DES PERES ROAD, SUITE 100
ST. LOUIS, MISSOURI 63131
T: 314-835-0524

CIVIL

CEDC
10820 SUNSET OFFICE DRIVE, SUITE 200
ST. LOUIS, MISSOURI 63127
T: 314-729-1400

MEP/FP

HORNER & SHIFRIN, INC.
401 SOUTH 18TH STREET, SUITE 400
ST. LOUIS, MISSOURI 63103
T: 314-531-4321

LANDSCAPE

LANDSCAPE TECHNOLOGIES
67 JACOBS CREEK DRIVE
ST. CHARLES, MISSOURI 63304
T: 636-928-1250

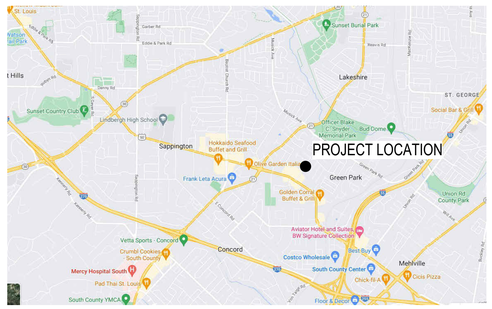
OWNER

MEHLVILLE FIRE PROTECTION DISTRICT
11020 MUELLER RD.
ST. LOUIS, MO. 63123

PROJECT ADDRESS

MEHLVILLE FIRE HOUSE #5
11020 MUELLER RD.
ST. LOUIS, MO. 63123

PROJECT LOCATION



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STATE OF MISSOURI
ROY A. MANDSAGER
A-6661
ARCHITECT
03/15/24
Roy A. Mandsager
MO Architect License No: A-6661
Expires: 12/31/24

Archimages architecture | interiors
MO Architectural Corporation Archimages, Inc. # 000550
143 West Clinton Place St. Louis, Missouri 63122
p: [314] 965.7445 f: [314] 965.7477
www.archimages-stl.com

[Consultants]

Proposed:
Mehlville Fire House No5
11020 MUELLER ROAD

Revision
No. Date

COVER SHEET

Project No.
22135

Sheet No.
G100

Date
03/15/2024

SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 12" 6" 0
SCALE: 1" = 1'-0" 2" 12" 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" 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

3/21/2024 2:17:09 PM
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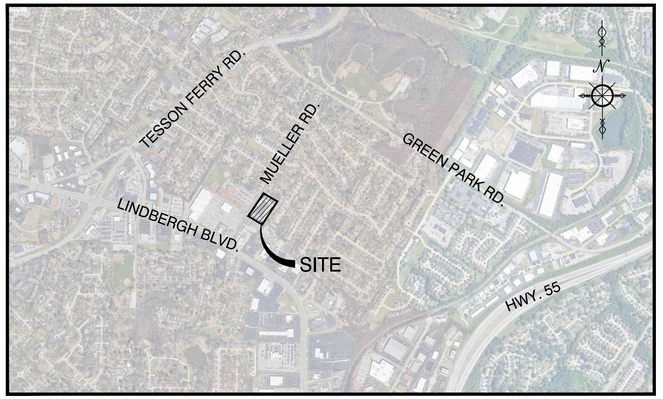
SITE IMPROVEMENT PLANS

for a

MEHLVILLE FIRE DISTRICT HOUSE #5

LEGEND

EXISTING CONTOURS	433
PROPOSED CONTOURS	433
EXISTING STORM SEWER	
PROPOSED STORM SEWER	
EXISTING SANITARY SEWER	
PROPOSED SANITARY SEWER	
RIGHT-OF-WAY	
EASEMENT	
CENTERLINE	
EXISTING TREE	12"
EXISTING SPOT ELEVATION	× 433.28
PROPOSED SPOT ELEVATION	433.28
SWALE/DRAINAGE PATH	
TO BE REMOVED	T.B.R.
TO BE REMOVED & RELOCATED	T.B.R.& R.
TO BE USED IN PLACE	U.I.P.
ADJUST TO GRADE	A.T.G.
BACK OF CURB	B.C.
FACE OF CURB	F.C.
WATER MAIN	W
GAS MAIN	G
UNDERGROUND TELEPHONE	T
OVERHEAD WIRE	O.H.
UNDERGROUND ELECTRIC	E
FIRE HYDRANT	
POWER POLE	
WATER VALVE	WV
WATER MANHOLE	WMH
TELEPHONE MANHOLE	TMH
BRUSH & SHRUB LINE	
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
(NOT TO SCALE)

PROPERTY DATA

OWNER	= MEHLVILLE FIRE PROTECTION DISTRICT
ADDRESS	= 11020 MUELLER RD., GREEN PARK, MO 63123
LOCATOR NO.	= 28K541226
ACREAGE	= 2.73 Ac.±
EXISTING ZONING	= PO-P
FIRE DISTRICT	= MEHLVILLE FIRE PROTECTION DISTRICT
SCHOOL DISTRICT	= LINDBERGH
SEWER DISTRICT	= METROPOLITAN ST. LOUIS SEWER DISTRICT
WATER SHED	= GRAVOIS CREEK
FEMA MAP	= 29189C0315 H
ELECTRIC COMPANY	= AMERENUE
GAS COMPANY	= LACLEDE GAS COMPANY
PHONE COMPANY	= AT&T
WATER COMPANY	= MISSOURI AMERICAN WATER COMPANY

UTILITIES & AGENCIES

ELECTRIC COMPANY = AMERENUE – MACKENZIE DISTRICT
9823 MACKENZIE ROAD
ST. LOUIS, MO 63123
PH. (314) 992-9702
FAX (314) 992-9726
CONTACT: ENGINEERING

PHONE COMPANY = SOUTHWESTERN BELL TELEPHONE
12930 OLIVE BLVD., 2nd FLOOR
CREVE COEUR, MO. 63141
PH. (314) 275-0058

GAS COMPANY = LACLEDE GAS COMPANY
720 OLIVE STREET
ROOM 1408
ST. LOUIS, MO 63101
PH. (314) 342-0500
CONTACT: KRISTINA EMBRY

SEWER = METROPOLITAN ST. LOUIS SEWER DISTRICT
2350 MARKET STREET
ST. LOUIS, MO 63103
PH. (314) 768-6200

WATER COMPANY = MISSOURI AMERICAN WATER COMPANY
1050 RESEARCH BLVD.
ST. LOUIS, MO 63132
PH. (314) 996-2445
ATTN: MR. BOB CHITWOOD

FIRE DISTRICT = MEHLVILLE FIRE PROTECTION DISTRICT
11020 MUELLER ROAD
ST. LOUIS, MO 63123
PH. (314) 894-0420
ATTN: FIRE MARSHAL ED BERKEL

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

BENCHMARK

BENCHMARK USED FROM PLANS PROVIDED – ST. LOUIS COUNTY NO. 19-415,
ELEV. = 581.78

NOTE:
ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORM WATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN)

DETENTION FOR ANY FURTHER DEVELOPMENT SHALL INCLUDE THESE IMPROVEMENTS AS WELL.

SHEET INDEX

C1	TITLE SHEET
C2	SPECIFICATIONS SHEET
C3	SITE PLAN
C4	SITE DETAILS

NOTES TO CONTRACTOR:

1.) 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.

2.) 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.

3.) 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.

4.) 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 OWNER AND 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.

PREPARED FOR:

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

PREPARED BY:

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

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

MSD PROJECT #:
MSD BASE MAP #: 28K

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

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

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

Site Improvement Plans for
MEHLVILLE FIRE DISTRICT HOUSE #5
11020 MUELLER RD.
ST. LOUIS, MO 63123

Proj. # 1030.1

No.	Description	Date
	Bid / Permit Set	03-15-2024

TITLE SHEET

DRAWING NO.

C1

GENERAL NOTES

1.) ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER 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.) ALL ELEVATIONS ARE BASED ON MSD BENCHMARK.

3.) BOUNDARY AND TOPOGRAPHIC SURVEY BY SABUR SURVEYING COMPANY.

4.) ALL ON-SITE MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF GREEN PARK, MODOT, AND M.S.D.

5.) ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED BY THE CITY OF GREEN PARK.

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

7.) GRADING CONTRACTOR SHALL INSTALL SILTATION CONTROL PRIOR TO STARTING THE GRADING. ADDITIONAL SILTATION CONTROL DEVICES SHALL BE INSTALLED AS DIRECTED BY THE CITY OF GREEN PARK.

8.) ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.

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

10.) PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS.

11.) ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE CITY OF GREEN PARK, M.S.D. AND MODOT.

12.) THE DRIVE ENTRANCES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF MODOT.

13.) SEEDING, SODDING, MULCHING AND PLANTINGS FOR ALL DISTURBED AREAS SHALL BE SPECIFIED ON THE LANDSCAPE PLAN.

14.) SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1'V:20'H. SLOPES GREATER THAN 1'V:20'H MUST BE DESIGNED AS A RAMP. SIDEWALKS TO BE CONSTRUCTED TO ST. LOUIS COUNTY ADA STANDARDS.

15.) 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 ADAAC GUIDELINES AND THE INFORMATION ON THE PLANS, THE ADAAC GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION.

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

17.) STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE NATURAL DISCHARGE POINTS.

18.) ALL LANDSCAPED AREAS TO BE FILLED WITH A MINIMUM OF 6" OF TOPSOIL.

19.) ALL LANDSCAPED AREAS DISTURBED BY OFF-SITE WORK SHALL BE IMMEDIATELY SEEDED OR SODDED, AS DIRECTED BY THE CITY OF GREEN PARK AND/OR MODOT.

20.) 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.

21.) ALL SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWER AND DRAINAGE FACILITIES, 2009.

22.) SITE LIGHTING SHALL COMPLY WITH THE ORDINANCE REQUIREMENTS OF THE CITY OF GREEN PARK.

23.) LANDSCAPING SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF GREEN PARK.

24.) ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO CITY OF GREEN PARK STANDARDS.

25.) SIGNAGE PROPOSED FOR THIS SITE SHALL BE IN CONFORMANCE WITH THE ORDINANCE REQUIREMENTS OF THE CITY OF GREEN PARK.

26.) THE DEVELOPER IS ADVISED THAT UTILITY COMPANIES WILL REQUIRE COMPENSATION FOR RELOCATION OF THEIR UTILITY FACILITIES WITHIN THE PUBLIC RIGHT-OF-WAY. THE DEVELOPER SHOULD ALSO BE AWARE OF EXTENSIVE DELAYS IN UTILITY COMPANY RELOCATION AND ADJUSTMENTS. SUCH DELAYS WILL NOT CONSTITUTE A CAUSE TO ALLOW OCCUPANCY PRIOR TO COMPLETION OF ROAD IMPROVEMENTS.

27.) A LAND DISTURBANCE PERMIT ISSUED BY MDNR IS REQUIRED FOR ANY SITE WHERE ONE OR MORE ACRES OF LAND WILL BE DISTURBED. SITE PLAN/PLAT APPROVAL IS NOT TO BE CONSTRUED AS APPROVAL OF A LAND DISTURBANCE PERMIT.

28.) APPROVALS OF SANITARY AND STORM WATER BY MSD ARE TO BE SECURED BY THE OWNER PRIOR TO CONSTRUCTION. DETAILED CONSTRUCTION INFORMATION IS TO BE PROVIDED TO PUBLIC WORKS WITH THE RIGHT-OF-WAY APPLICATIONS.

29.) RIGHT-OF-WAY PERMITS WILL BE NEEDED FOR ALL NEW UTILITY CONNECTIONS IN SAINT LOUIS COUNTY RIGHT-OF-WAY AS WELL AS ANY WORK IN THE RIGHT-OF-WAY.

30.) DRIVEWAYS, SIDEWALKS, CURBS AND GUTTERS ARE TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY THE CITY OF GREEN PARK AND SAINT LOUIS COUNTY.

31.) BUILDING PERMIT(S) (NEW BUILDING AND TRASH ENCLOSURE WALLS) WILL BE REQUIRED FROM ST. LOUIS COUNTY DEPARTMENT OF PUBLIC WORKS VIA A ZONING AUTHORIZATION FROM THE CITY OF GREEN PARK.

32.) BUILDING PERMIT(S) (RETAINING WALLS) WILL BE REQUIRED FROM ST. LOUIS COUNTY DEPARTMENT OF PUBLIC WORKS VIA A ZONING AUTHORIZATION FROM THE CITY OF GREEN PARK.

33.) A GRADING PERMIT WILL BE REQUIRED FROM THE CITY OF GREEN PARK FOR THE PROPOSED GRADING ON SITE AND OFF SITE. A COPY OF THE DNR PERMIT SHALL BE PROVIDED TO THE CITY OF GREEN PARK.

34.) DEMOLITION PERMIT(S) (EXISTING BUILDINGS AND STRUCTURES) WILL BE REQUIRED FROM ST. LOUIS COUNTY DEPARTMENT OF PUBLIC WORKS VIA A ZONING AUTHORIZATION FROM THE CITY OF GREEN PARK. CONTRACTOR TO PROVIDE UTILITY CORRESPONDENCE TO THE CITY OF GREEN PARK.

35.) SIGN PERMIT(S) WILL BE REQUIRED FROM ST. LOUIS COUNTY DEPARTMENT OF PUBLIC WORKS FOR ALL PROPOSED SIGNS VIA A ZONING AUTHORIZATION FROM THE CITY OF GREEN PARK.

36.) CONSTRUCTION PARKING OR CONSTRUCTION STORAGE IS NOT PERMITTED ON CITY OF GREEN PARK STREETS (RIGHT-OF-WAY).

CITY NOTES

1. THE SITE IMPROVEMENT PLANS APPROVED BY THE CITY OF GREEN PARK DO NOT ALLOW THE REMOVAL OR CONSTRUCTION OF ANY SANITARY OR STORM SEWER LINES WITHOUT THE PRIOR APPROVAL OR CONSENT OF MSD.

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

3. ALL NEW SIGNS SHALL CONFORM TO THE CITY OF GREEN PARK SIGN ORDINANCE REQUIREMENTS. SIGN LOCATION AND SIZES CANNOT BE APPROVED WITH THE SITE IMPROVEMENT PLAN, A SEPARATE APPLICATION MUST BE MADE TO THE DEPARTMENT OF PLANNING.

4. THE GENERAL CONTRACTOR SHALL RESTORE OFFSITE CONSTRUCTION AREAS TO AN EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO THE COMMENCEMENT OF WORK.

5. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION 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.

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

7. 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 PLAN.

8. BURNING ON SITE WILL NOT BE ALLOWED.

9. DISPOSAL OF MATERIAL ON-SITE WILL ONLY BE ALLOWED AS DIRECTED BY THE OWNER AND GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY OF GREEN PARK

10. CONTRACTOR SHALL COORDINATE THE DISCONNECTION, SEALING AND/OR REMOVAL OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.

11. THE GENERAL CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR NEW SERVICE.

12. THE GENERAL CONTRACTOR SHALL FLAG ALL SANITARY AND STORM SEWER STRUCTURES WITH A 2X4 PAINTED ORANGE AND MARKED TO READ "STORM SEWER STRUCTURE OR SANITARY SEWER STRUCTURE DO NOT BURY".

13. ALL FILLED PLACES UNDER PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. A SEALED COPY OF ALL RESULT REPORTS SHALL BE AVAILABLE FOR REVIEW.

14. ALL EXCAVATIONS, GRADING, OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE (33 PERCENT). STEEPER GRADES MAY BE APPROVED BY THE DESIGNATED OFFICIAL IF THE EXCAVATION IS THROUGH ROCK OR THE EXCAVATION OR THE FILL IS ADEQUATELY PROTECTED (A DESIGNED HEAD WALL OR WALLS MAY BE REQUIRED). RETAINING WALLS THAT EXCEED A HEIGHT OF FOUR (4) FEET SHALL REQUIRE THE CONSTRUCTION OF SAFETY GUARDS AS IDENTIFIED IN THE APPROPRIATE SECTION(S) OF THE ADOPTED BOCA CODES AND MUST BE APPROVED BY ST. LOUIS COUNTY. PERMANENT SAFETY GUARDS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE SECTION(S) OF THE ADOPTED BOCA CODES.

15. SEDIMENT AND EROSION CONTROL PLANS FOR SITES THAT EXCEED 20,000 SQUARE FEET OF GRADING SHALL PROVIDE FOR SEDIMENT OR DEBRIS BASINS, SILT TRAPS OR FILTERS, STAKED STRAW BALES OR OTHER APPROVED MEASURES TO REMOVE SEDIMENT FROM RUN-OFF WATERS. THE DESIGN TO BE APPROVED BY THE DESIGNATED OFFICIAL. TEMPORARY SILTATION CONTROL MEASURES (STRUCTURAL) SHALL BE MAINTAINED UNTIL VEGETATIVE CONTROL IS ESTABLISHED ON THE SITE, TO BE DETERMINED BY THE DESIGNATED OFFICIAL.

16. WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION. PERMANENT TYPE GRASSES SHALL BE ESTABLISHED AS SOON AS POSSIBLE OR DURING THE NEXT SEEDING PERIOD AFTER GRADING HAS BEEN COMPLETED.

17. WHEN GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 30 DAYS, PERMANENT GRASS MUST BE ESTABLISHED AT SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON THE SITE. BETWEEN PERMANENT GRASS SEEDING PERIODS, TEMPORARY COVER SHALL BE PROVIDED ACCORDING TO THE DESIGNATED OFFICIAL'S RECOMMENDATION.

18. ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENT) IN EXCESS OF 20 PERCENT SLOPES (5:1) SHALL BE MULCHED AND TACKED AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET WHEN SEEDED.

19. PROVISIONS SHALL BE MADE TO ACCOMMODATE THE INCREASED RUNOFF CAUSED BY CHANGED SOIL AND SURFACE CONDITIONS DURING THE AFTER GRADING. UNVEGETATED OPEN CHANNELS SHALL BE DESIGNED SO THAT GRADIENTS RESULT IN VELOCITIES OF 2 FPS (FEET PER SECOND) OR LESS. OPEN CHANNELS WITH VELOCITIES MORE THAN 2 FPS AND LESS THAN 5 FPS SHALL BE ESTABLISHED IN PERMANENT VEGETATION BY USE OF COMMERCIAL EROSION CONTROL BLANKETS OR LINED WITH ROCK RIPRAP OR CONCRETE OR OTHER SUITABLE MATERIALS AS APPROVED BY THE DESIGNATED OFFICIAL. DETENTION BASINS, DIVERSIONS, OR OTHER APPROPRIATE STRUCTURES SHALL BE CONSTRUCTED TO PREVENT VELOCITIES ABOVE 5 FPS.

20. THE ADJOINING GROUND TO DEVELOPMENT SITES (LOTS) SHALL BE PROVIDED WITH PROTECTION FROM ACCELERATED AND INCREASED SURFACE WATER, SILT FROM EROSION, AND ANY OTHER CONSEQUENCES OR EROSION. RUN-OFF WATER FROM DEVELOPED AREAS (PARKING LOTS, PAVED SITES AND BUILDINGS) ABOVE THE AREA TO BE DEVELOPED SHALL BE DIRECTED TO DIVERSIONS, DETENTION BASINS, CONCRETE GUTTERS AND/OR UNDERGROUND OUTLET SYSTEMS. SUFFICIENTLY ANCHORED STRAW BALES MAY BE TEMPORARILY SUBSTITUTED WITH THE APPROVAL OF THE DESIGNATED OFFICIAL.

21. ALL LOTS SHALL BE SEEDED AND MULCHED AT THE RATES DEFINED IN SWPPP DETAILS OR SODDED BEFORE AN OCCUPANCY PERMIT SHALL BE ISSUED EXCEPT THAT A TEMPORARY OCCUPANCY PERMIT MAY BE ISSUED BY THE BUILDING DEPARTMENT IN CASES OF UNDUE HARDSHIP BECAUSE OF UNFAVORABLE GROUND CONDITIONS.

22. ALL LIGHT STANDARDS SHALL BE SHADED, SHIELDED OR DIRECTED TO PREVENT DIRECT LIGHT FROM CAUSING TRAFFIC HAZARDS, AND CASTING DIRECT LIGHT UPON ADJACENT PROPERTY CAUSING GLARE OR OTHER OBJECTIONABLE PROBLEMS TO SURROUNDING AREAS.

23. THE DEVELOPER IS ADVISED THAT UTILITY COMPANIES WILL REQUIRE COMPENSATION FOR RELOCATION OF THEIR FACILITIES WITHIN THE PUBLIC ROAD RIGHT-OF-WAY. UTILITY RELOCATION COST SHALL BE CONSIDERED THE DEVELOPER'S RESPONSIBILITY. THE DEVELOPER SHOULD ALSO BE AWARE OF EXTENSIVE DELAYS IN UTILITY COMPANY RELOCATION AND ADJUSTMENTS. SUCH DELAYS WILL NOT CONSTITUTE A CAUSE TO ALLOW OCCUPANCY PRIOR TO COMPLETION OF ROAD IMPROVEMENTS.

24. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES ARE REQUIRED.

25. THE DEVELOPER IS REQUIRED TO TO PROVIDE ADEQUATE STORM WATER SYSTEMS IN ACCORDANCE WITH ST. LOUIS COUNTY AND M.S.D. STANDARDS.

26. ADDITIONAL SILTATION CONTROL SHALL BE INSTALLED AS REQUIRED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION.

27. PERMIT WILL BE REQUIRED BY ST. LOUIS COUNTY DEPARTMENT OF PUBLIC WORKS FOR CONSTRUCTION OF RETAINING WALLS PRIOR TO ISSUANCE OF SWPPP/GRADING PERMIT.

28. ALL OFFSITE PROPERTY OWNERS SHALL BE GIVEN NOTICE 48 HOURS IN ADVANCE OF ANY WORK. ANY DISTURBED PROPERTY (I.E. BUSHES, FENCES, MAILBOXES, ETC.) SHALL BE REPLACED, IN KIND, AT THE DEVELOPER'S EXPENSE.

29. PROVIDE ADEQUATE OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.

30. ALL WORK WITHIN SAINT LOUIS COUNTY RIGHT-OF-WAY SHALL BE TO SAINT LOUIS COUNTY STANDARDS.

31. ALL DISTURBED EARTH AREAS WITHIN SAINT LOUIS COUNTY RIGHT-OF-WAY SHALL BE SODDED.

COUNTY NOTES

1. NO SLOPE SHALL EXCEED 3:1 MAXIMUM.

2. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES ARE REQUIRED.

3. THE DEVELOPER IS REQUIRED TO TO PROVIDE ADEQUATE STORM WATER SYSTEMS IN ACCORDANCE WITH ST. LOUIS COUNTY AND M.S.D. STANDARDS.

4. ADDITIONAL SILTATION CONTROL SHALL BE INSTALLED AS REQUIRED BY ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC.

5. RETAINING WALL PERMIT WILL BE REQUIRED FROM ST. LOUIS COUNTY VIA ZONING AUTHORIZATION FROM CITY OF GREEN PARK.

6. ALL OFFSITE PROPERTY OWNERS SHALL BE GIVEN NOTICE 48 HOURS IN ADVANCE OF ANY WORK. ANY DISTURBED OFFSITE PROPERTY (I.E. BUSHES, FENCES, MAILBOXES, ETC.) SHALL BE REPLACED, IN KIND, AT THE DEVELOPER'S EXPENSE.

7. PROVIDE ADEQUATE OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.

8. ALL STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.

9. INTERNAL (PRIVATE) STORM SEWERS WILL REQUIRE A SEPARATE DRAINLAYER PERMIT FROM ST. LOUIS COUNTY DEPARTMENT OF PUBLIC WORKS.

10. ALL CONSTRUCTION SHALL BE PER THE MOST CURRENT DETAILS LOCATED IN THE ST. LOUIS COUNTY DESIGN CRITERIA MANUAL AND/OR THE SEDIMENT AND EROSION CONTROL MANUAL.

SANITARY SEWER NOTES

1.) ALL SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2009.

2.) 6" AND 8" LATERALS CONSTRUCTED OF P.V.C. 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 P.V.C..

4.) ALL MANHOLE FRAMES AND COVERS SHALL BE M.S.D. STANDARD FRAME AND COVER.

5.) ALL LATERAL SEWER CONSTRUCTION METHODS TO CONFORM TO LATEST STANDARDS AND SPECIFICATIONS OF THE ST. LOUIS 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 METROPOLITAN ST. LOUIS SEWER DISTRICT 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 FLOW OF HOUSE LATERALS AND ANY SANITARY LATERAL OF 100 FEET OR LONGER.

9.) TYPE "C" BEDDING PER M.S.D. STANDARDS REQUIRED FOR PIPES IN ROCK.

10.) VERTICAL CLEARANCE BETWEEN SEWER AND WATER MAINS SHALL BE A MINIMUM OF 2' - 0".

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 THE MSD 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.

MSD 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 THE METROPOLITAN ST. LOUIS SEWER DISTRICT UPON DEDICATION OF THE SEWERS TO THE DISTRICT.

16.) FOUNDATION DRAINS, IF INSTALLED, SHALL NOT CONNECT TO THE SANITARY SEWER.

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 THE METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2009.

3.) TYPE "C" BEDDING PER M.S.D. STANDARDS 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 M.S.D. 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 THE MSD 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.

MSD 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.

MSD PROJECT #:
MSD BASE MAP #: 28K

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

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

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

Site Improvement Plans for
MEHLVILLE FIRE DISTRICT HOUSE #5
11020 MUELLER RD.
ST. LOUIS, MO 63123

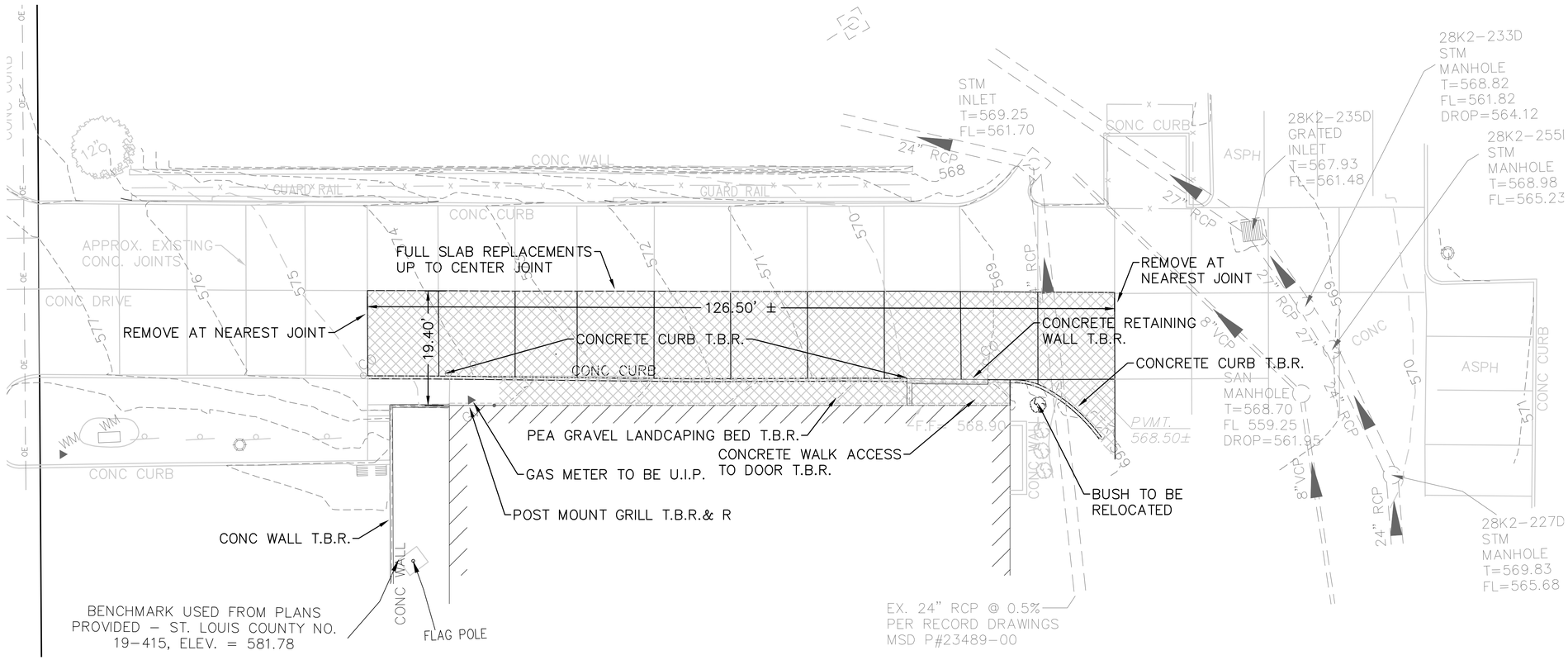
Proj. # 1030.1

No.	Description	Date
	Bid / Permit Set	03-15-2024

SPECIFICATIONS SHEET

DRAWING NO.
C2

EXISTING CONDITIONS & SITE DEMO PLAN



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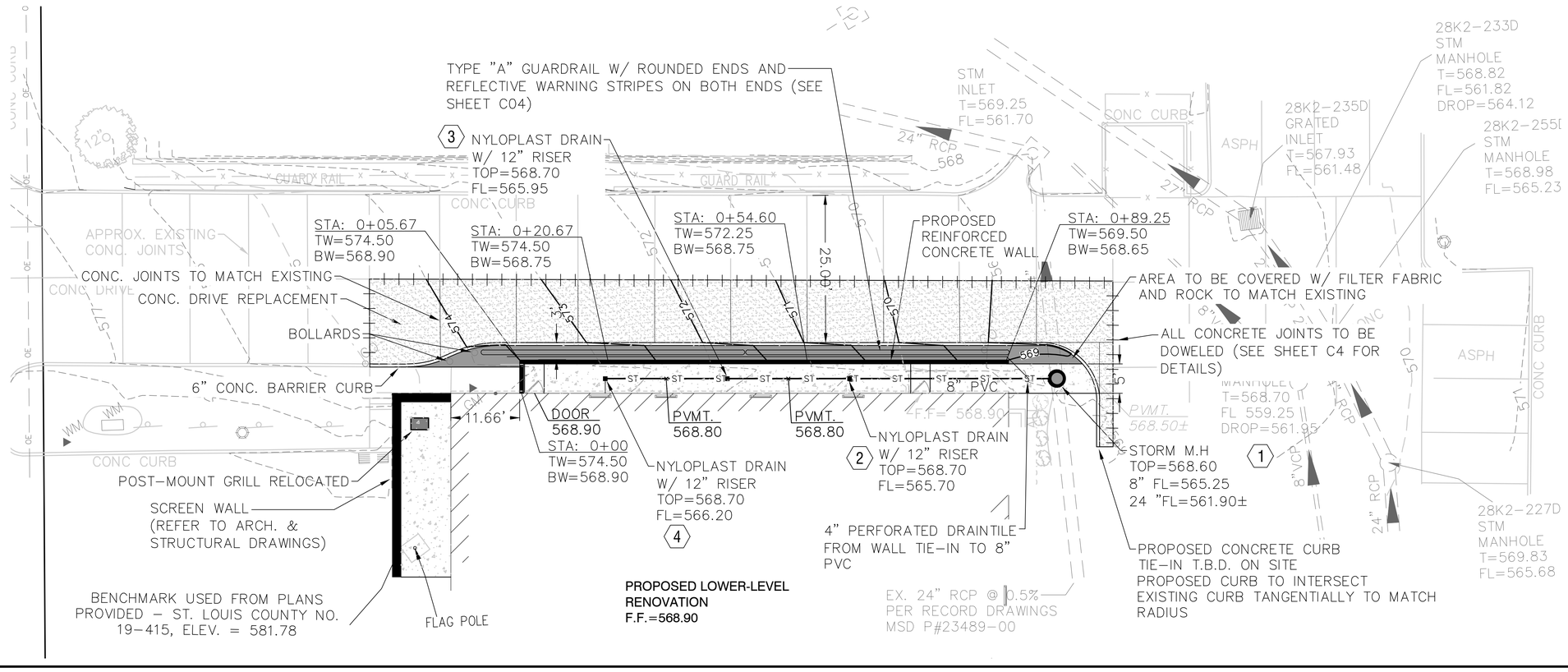
ST. LOUIS, MO 63123

SITE GRADING & GEOMETRY PLAN

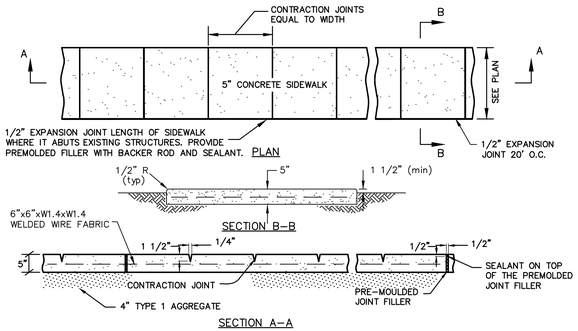


Proj. # 1030.1		
No.	Description	Date
	Bid / Permit Set	03-15-2024

SITE PLAN

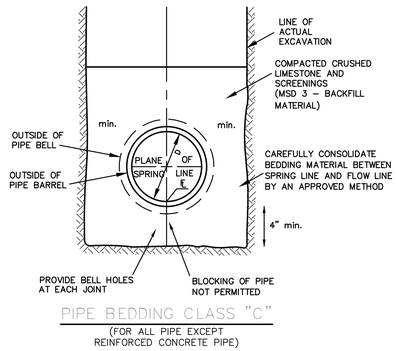
DRAWING NO.
C3

MSD PROJECT #:
MSD BASE MAP #: 28K



DETAIL OF CONCRETE SIDEWALK

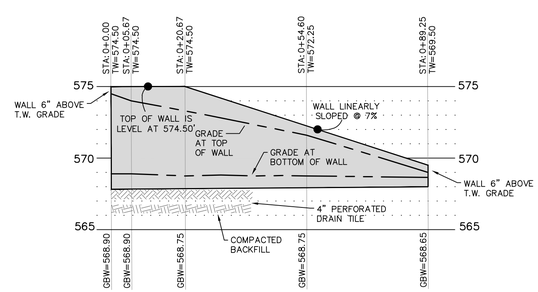
(N.T.S.)



PIPE BEDDING CLASS "C"

(FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE)

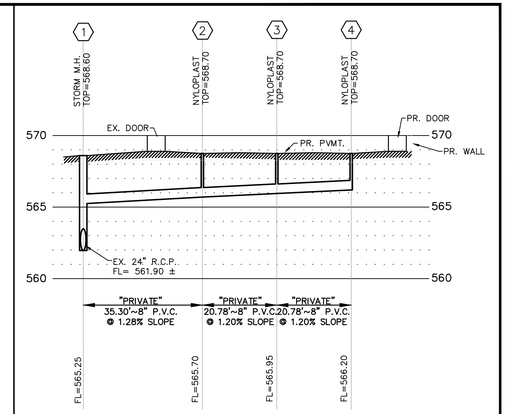
PIPE BEDDING DETAILS



FOOTINGS NOT DEPICTED
SEE ARCH./ STRUCTURAL DRAWINGS FOR DETAILS

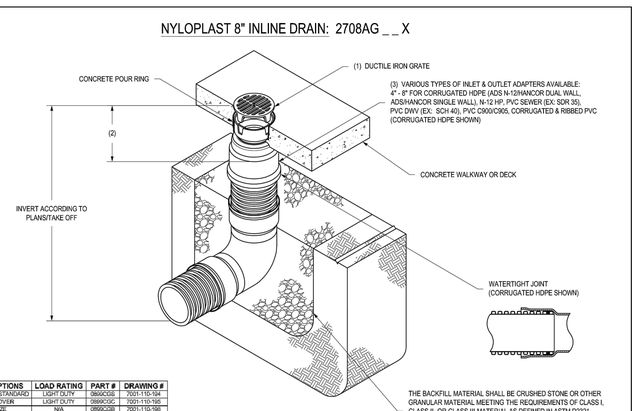
RETAINING WALL PROFILE

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



STORM SEWER PROFILE

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



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN/STANDARD	LIGHT DUTY	0860CGS	7021-110-194
SOLID COVER	LIGHT DUTY	0899CGC	7021-110-195
BRONZE	N/A	0899CGB	7021-110-196
DOME	N/A	0860CGD	7021-110-197

1 - GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05 WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FOR COMPLETE DESIGN DETAILS SEE DRAWING NO. 7003-110-000.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER.

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DRAWN BY	EBC	MATERIAL	
DATE	11-15-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-15-16	TITLE	8 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL
DWG SIZE	A	SCALE 1:16 SHEET 1 OF 1	DWG NO. 7003-110-033 REV F

ADS Nyloplast
3126 VERONA AVE
BUFORD, GA 30518
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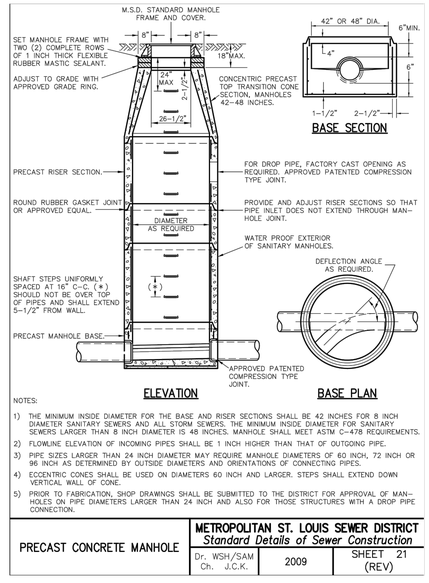
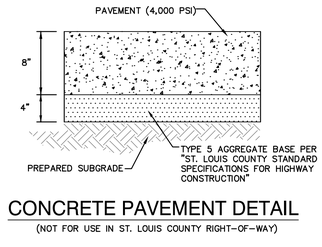


NOTES:

1) THE MINIMUM INSIDE DIAMETER FOR THE BASE AND RISER SECTIONS SHALL BE 42 INCHES FOR 8 INCH DIAMETER SANITARY SEWERS AND ALL STORM SEWERS. THE MINIMUM INSIDE DIAMETER FOR SANITARY SEWERS LARGER THAN 8 INCH DIAMETER IS 48 INCHES. MANHOLE SHALL MEET ASTM C–478 REQUIREMENTS.
2) FLOWLINE ELEVATION OF INCOMING PIPES SHALL BE 1 INCH HIGHER THAN THAT OF OUTGOING PIPE.
3) PIPE SIZES LARGER THAN 24 INCH DIAMETER MAY REQUIRE MANHOLE DIAMETERS OF 60 INCH, 72 INCH OR 96 INCH AS DETERMINED BY OUTSIDE DIAMETERS AND ORIENTATIONS OF CONNECTING PIPES.
4) ECCENTRIC CONES SHALL BE USED ON DIAMETERS 60 INCH AND LARGER. STEPS SHALL EXTEND DOWN VERTICAL WALL OF CONE.
5) PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL OF MAN–HOLES ON PIPE DIAMETERS LARGER THAN 24 INCH AND ALSO FOR THOSE STRUCTURES WITH A DROP PIPE CONNECTION.

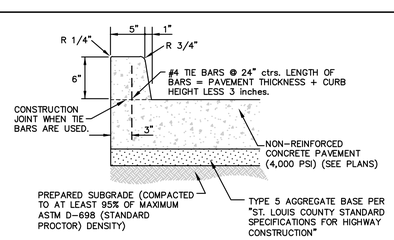
PRECAST CONCRETE MANHOLE

METROPOLITAN ST. LOUIS SEWER DISTRICT *Standard Details of Sewer Construction*		
Dr. WSH/SAM Ch. J.C.K.	2009	SHEET 21 (REV)



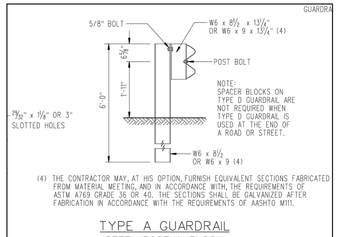
CONCRETE PAVEMENT DETAIL

(NOT FOR USE IN ST. LOUIS COUNTY RIGHT–OF–WAY)



BARRIER CURBING DETAIL

(NOT FOR USE IN ST. LOUIS CITY RIGHT–OF–WAY)

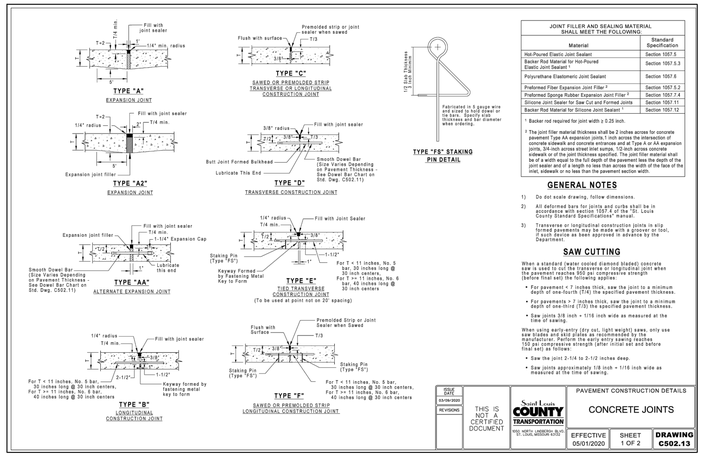


(4) THE CONTRACTOR MAY, AT HIS OPTION, FURNISH EQUIVALENT SECTIONS FABRICATED FROM MATERIAL MEETING, AND IN ACCORDANCE WITH, THE REQUIREMENTS OF ASTM A769 GRADE 36 OR 40. THE SECTIONS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M111.

TYPE A GUARDRAIL

(STEEL POST & BLOCK)

ROUNDED GUARDRAIL END WITH WARNING STRIPING TO BE USED ON ALL GUARDRAILS.



JOINT FILLER AND SEALING MATERIAL SHALL MEET THE FOLLOWING:	
Material	Standard Specification
Hot-Poured Elastic Joint Sealant	Section 1007.5
Backer Rod Material for Hot-Poured Elastic Joint Sealant [1]	Section 1007.5.3
Polyurethane Elastomeric Joint Sealant	Section 1007.6
Preformed Fiber Expansion Joint Filler [2]	Section 1007.5.2
Preformed Sponge Rubber Expansion Joint Filler [3]	Section 1007.7.4
Silicone Joint Sealer for Saw Cut and Formed Joints	Section 1007.11
Backer Rod Material for Silicone Joint Sealant [1]	Section 1007.12

[1] Backer rod required for joint width ≥ 0.25 inch.
[2] The Joint filler material thickness shall be 2 inches across for concrete pavement Type AA expansion joints,1 inch across the intersection of concrete sidewalk and concrete entrances and at Type A or AA expansion joints, 3/4–inch across street shot sumps, 1/2–inch across concrete sidewalk and at all other expansion joints. The joint filler material shall be of a width equal to the full depth of the pavement less the depth of the joint sealer and of a length no less than across the width of the face of the inlet, sidewalk or less than the pavement section width.

GENERAL NOTES

1) Do dot scale drawing, follow dimensions.
2) All deformed bars for joints and curbs shall be in accordance with Section 1036.10 of St. Louis County Standard Specifications" manual.
3) Transverse or longitudinal construction joints in slip formed pavements may be made with a groover or tool, if such device as been approved in advance by the Department.

SAW CUTTING

When a standard (water cooled diamond bladed) concrete saw is used, the first cut for each transverse joint when the pavement reaches 900 psi compressive strength (before final set) the following applies:

- For pavement < 7 inches thick, saw the joint to a minimum depth of one-fourth (T/4) the specified pavement thickness.
- For pavements > 7 inches thick, saw the joint to a minimum depth of one-third (T/3) the specified pavement thickness.
- Saw joints 3/8 inch + 1/16 inch wide as measured at the time of sawing.

When using early-entry (dry-cut, light weight) saws, only saw saw blades and slab plates as recommended by the manufacturer. Perform the early entry sawing reaches 150 psi compressive strength (after initial set and before final set) as follows:

- Saw the joint 2-1/4 to 2-1/2 inches deep.
- Saw joints approximately 1/8 inch + 1/16 inch wide as measured at the time of sawing.

DRAWN BY	EBC
DATE	03/09/2020
REVISED BY	
REVISIONS	

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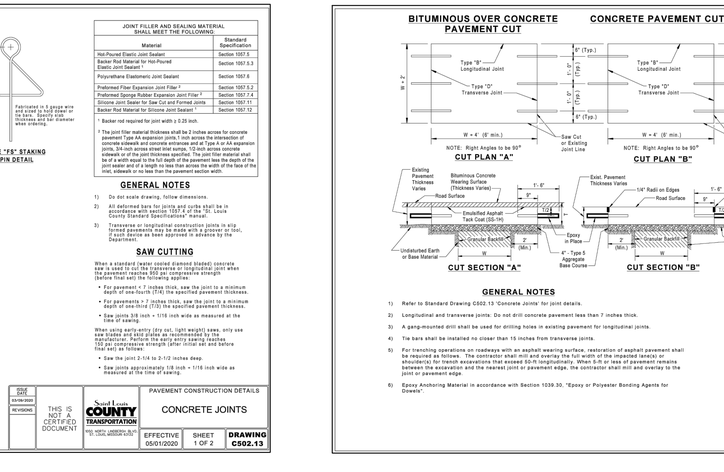
Saint Louis COUNTY TRANSPORTATION
9341 NORTH LINDBERGH BLVD.
ST. LOUIS, MISSOURI 63123

PAVEMENT CONSTRUCTION DETAILS

CONCRETE JOINTS

EFFECTIVE	SHEET	DRAWING
05/01/2020	1 OF 2	C502.13



MINIMUM PAVEMENT COMPRESS STRENGTH REQUIREMENTS:

COMPRESSIVE STRENGTH FOR OPENING TO TRAFFIC, PSI		
PAVEMENT THICKNESS INCHES	PAVEMENT REPAIR LENGTH 6 - 10 FEET	PAVEMENT REPAIR LENGTH > 10 FEET
T≤ 8	3,000	3,600
8<T≤ 9	2,400	2,700
9<T<10	2,200	2,300
T≥10	2,000	2,000

MINIMUM DOWEL BAR REQUIREMENTS:

DOWEL BARS - EPOXY COATED		
PAVEMENT THICKNESS	BAR SIZE	
	DIAMETER	LENGTH
7 Inches	1 inch	18 inches
8 Inches	1 inch	18 inches
9 Inches	1–1/4 inches	18 inches
10 Inches	1–1/4 inches	18 inches
11 inches or Greater	1–1/2 inches	18 inches

1) Refer to Standard Drawing C502.13 "Concrete Joints" for joint details.
2) Longitudinal and transverse joints. Do not drill concrete pavement less than 7 inches thick.
3) A gang-mounted drill shall be used for drilling holes in existing pavement for longitudinal joints.
4) Tie bars shall be installed no closer than 15 inches from transverse joints.
5) For trenching operations on roadways with an asphalt wearing surface, restoration of asphalt pavement shall be required as follows. The contractor shall mill and overlay the full width of the impacted lane(s) or shoulder(s) for trench excavations that exceed 50-ft longitudinally. When 5-ft or less of pavement remains between the excavation and the nearest joint or pavement edge, the contractor shall mill and overlay to the joint or pavement edge.
6) Epoxy Anchoring Material in accordance with Section 1039.30, "Epoxy or Polyester Bonding Agents for Dowels."

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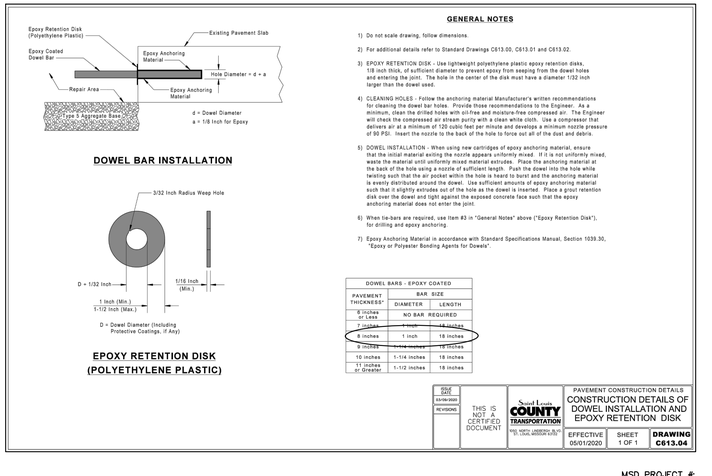
Saint Louis COUNTY TRANSPORTATION
9341 NORTH LINDBERGH BLVD.
ST. LOUIS, MISSOURI 63123

PAVEMENT CONSTRUCTION DETAILS

CONSTRUCTION DETAILS OF FULL DEPTH PAVEMENT REPAIR

EFFECTIVE	SHEET	DRAWING
05/01/2020	1 OF 1	C613.00



DOWEL BAR INSTALLATION

EPOXY RETENTION DISK (POLYETHYLENE PLASTIC)

GENERAL NOTES

1) Do not scale drawing, follow dimensions.
2) For additional details refer to Standard Drawings C613.00, C613.01 and C613.02.
3) EPOXY RETENTION DISK - Use lightweight polyethylene plastic epoxy retention disks, 1/8 inch thick, of sufficient diameter to prevent epoxy from seeping from the dowel holes and entering the joint. The hole in the center of the disk must have a diameter 1/32 inch larger than the dowel used.
4) CLEANING HOLES - Follow the anchoring material Manufacturer's written recommendations for cleaning the dowel bar holes. Provide those recommendations to the Engineer. As a minimum, clean the drilled holes with oil-free and moisture-free compressed air. The Engineer will check the compressed air stream purity with a clean white cloth. Use a compressor that delivers air at a minimum of 120 cubic feet per minute and develops a minimum nozzle pressure of 90 PSI. Insert the nozzle to the back of the hole to force out all of the dust and debris.
5) DOWEL INSTALLATION - When using new cartridges of epoxy anchoring material, ensure that the initial material exiting the nozzle appears uniformly mixed. If it is not uniformly mixed, waste the material until uniformly mixed material extrudes. Place the anchoring material at the back of the hole using a nozzle of sufficient length. Push the dowel into the hole while twisting such that the air pocket within the hole is heard to burst and the anchoring material is evenly distributed around the dowel. Use sufficient amounts of epoxy anchoring material such that it slightly extrudes out of the hole as the dowel is inserted. Place a grout retention disk over the dowel and tight against the exposed concrete face such that the epoxy anchoring material does not enter the joint.
6) When tie-bars are required, use item #3 in "General Notes" above ("Epoxy Retention Disk"), for drilling and epoxy anchoring.
7) Epoxy Anchoring Material in accordance with Standard Specifications Manual, Section 1039.30, "Epoxy or Polyester Bonding Agents for Dowels".

DOWEL BARS - EPOXY COATED		
PAVEMENT THICKNESS	BAR SIZE	
	DIAMETER	LENGTH
6 Inches or Less	NO BAR REQUIRED	
7 Inches	1 Inch	18 Inches
8 Inches	1 Inch	18 Inches
9 Inches	1–1/4 Inches	18 Inches
10 Inches	1–1/4 Inches	18 Inches
11 Inches or Greater	1–1/2 Inches	18 Inches

DRAWN BY	EBC
DATE	03/09/2020
REVISED BY	
REVISIONS	

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Saint Louis COUNTY TRANSPORTATION
9341 NORTH LINDBERGH BLVD.
ST. LOUIS, MISSOURI 63123

PAVEMENT CONSTRUCTION DETAILS

CONSTRUCTION DETAILS OF DOWEL INSTALLATION AND EPOXY RETENTION DISK

EFFECTIVE	SHEET	DRAWING
05/01/2020	1 OF 1	C613.04

MSD PROJECT #:
MSD BASE MAP #: 28K

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

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

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

Site Improvement Plans for
MEHLVILLE FIRE DISTRICT HOUSE #5
11020 MUELLER RD.
ST. LOUIS, MO 63123

No.	Description	Date
Proj. #	1030.1	
	Bid / Permit Set	03-15-2024

SITE DETAILS

DRAWING NO.

C4

ARCHITECTURAL ABBREVIATIONS

&	AND
<	ANGLE
AB	ANCHOR BOLT
ACOUS/ACS	ACOUSTIC(AL)
TCT	ACOUSTICAL CEILING TILE
ACP	ACOUSTICAL CEILING PANEL
ACS PNL	ACCESS PANEL
AD	AREA DRAIN
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFS	ABOVE FINISH SLAB
AGGR	AGGREGATE
ALUM, AL	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APPROX	APPROXIMATE(ILY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
ASPH	AT
AVG	AVERAGE

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

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

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

F/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 EXTINGUISHER 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 OR GRADING
GVL	GRAVEL
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER

H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD
HDBD	HARDBOARD
HDW,HDW	HARDWARE
HDWD	HARDWOOD
HGT, HT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
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 / MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MM	MILLIMETERS
MO	MASONRY OPENING
MOD	MODULE, MODULAR
MTD	MOUNTED
MTG	MOUNTING
MVBL	MOVABLE
MULL	MULLION

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

OC	ON CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED - 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 / PTD	POINT, 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
SAB	SOUND ATTENUATION BLANKET
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SD	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SEG	SEGMENT
SEP	SEPARATION OR 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
SW	SOUTHWEST
SYMM	SYMMETRICAL
SYST	SYSTEM

T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE 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 LABORATORIES
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
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
W	WITH
W/O	WITHOUT
WW	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

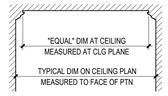
YD	YARD

ARCHITECTURAL DIMENSIONING CONVENTIONS

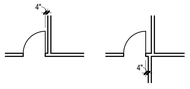
1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN," DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN (OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED) ON THE FLOOR PLANS, 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 ELEMENT.
      - 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.
      - DIMENSION OR WORK POINT AS INDICATED ON RELATED ARCH DETAIL PLAN, SECTION, ELEVATION, LAYOUT OR CONFIGURATION DETAIL, OR CONSTRUCTION DETAIL.
   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:

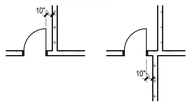
- CAUTION: DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR (EXCEPT AS INDICATED BY "FOF" OR "CLEAR") BY THE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONTRACTOR MUST ADJUST, AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO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

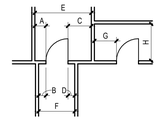


      - AT DOORS OCCURRING IN WALLS OF CONC MASONRY UNIT CONSTRUCTION, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 10 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.

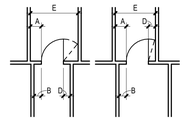


NOTE NO 4 CONTINUED:

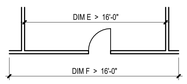
   C. WHERE DOOR OCCURS NOT ADJACENT TO A PERPENDICULAR WALL AND EITHER "DIM E" OR "DIM F" IN DIAGRAM BELOW IS 16'-0" OR LESS, LOCATE DOOR UTILIZING THE FOLLOWING MINIMUM DIMENSIONS:
      - DIMENSION A = 18 INCHES MIN
      - DIMENSION B = 12 INCHES MIN
      - DIMENSION C = DOOR WIDTH + 2 INCHES MINIMUM
      - DIMENSION D = 4 INCHES MIN AT METAL FRAMED GYP BD PARTITIONS OR - EVEN MULTIPLE OF 12 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



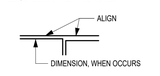
      - IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C" OR "DIM B" EQUALS "DIM D".
   D. IF "DIM E" IN DIAGRAMS BELOW IS LESS THAN THE SUM OF 2 TIMES THE DOOR WIDTH PLUS 20 INCHES, LOCATE DOOR SO THAT MINIMUMS STATED BY NOTE NO 4C ABOVE FOR "DIM A", "DIM B," 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.

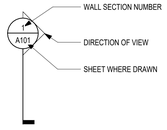


5. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED.

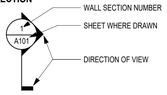


TYPICAL ARCHITECTURAL REFERENCE SYMBOLS

WALL SECTION

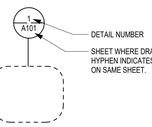


BUILDING SECTION

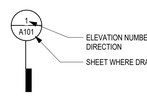


EXTERIOR ELEVATION

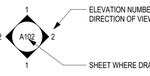
DETAIL REFERENCE



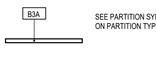
SECTION DETAIL REFERENCE



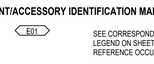
INTERIOR ELEVATION REFERENCE



PARTITION TYPE IDENTIFICATION MARK

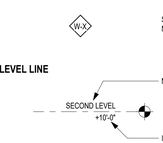


EQUIPMENT/ACCESSORY IDENTIFICATION MARK



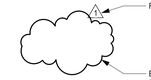
DOOR IDENTIFICATION MARK

WINDOW AND LOUVER TYPE MARK

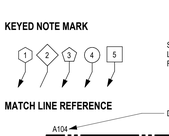


LEVEL LINE

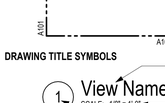
ROOM NAME AND NUMBER



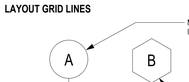
REVISION EXTENT



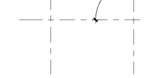
KEYED NOTE MARK



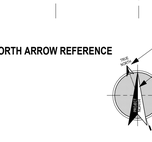
MATCH LINE REFERENCE



DRAWING TITLE SYMBOLS



LAYOUT GRID LINES



NORTH ARROW REFERENCE

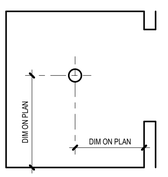
TYPICAL RULES FOR DETERMINING REFLECTED CEILING PLAN LOCATIONS, DIMENSIONS, AND CONFIGURATIONS

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

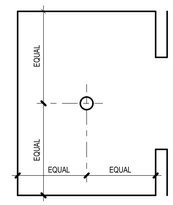


LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY A REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL.

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

RULE 2

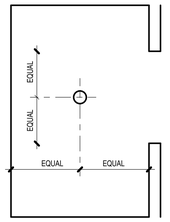
WHEN NOT DIMENSIONED BUT SHOWN CENTERED



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

RULE 3

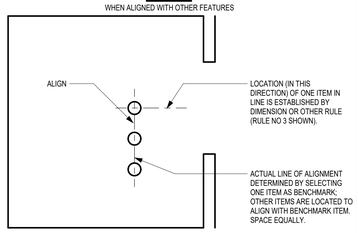
WHEN OFF-CENTER IN SPACE BUT CENTERED ON ADJACENT FEATURE



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


ALIGN
LOCATION (IN THIS DIRECTION) OF ONE ITEM IN LINE IS ESTABLISHED BY DIMENSION OR OTHER RULE (RULE NO 3 SHOWN).
ACTUAL LINE OF ALIGNMENT DETERMINED BY SELECTING ONE ITEM AS BEN

APPLICABLE CODES

BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL EXISTING BUILDING CODE

MECHANICAL CODE : 2015 IMC INTERNATIONAL MECHANICAL CODE
PLUMBING CODE: 2015 UPC UNIFORM PLUMBING CODE
(AMENDMENTS PER ST. LOUIS COUNTY CODE)
ELECTRICAL CODE: 2014 NEC NATIONAL ELECTRIC CODE
FIRE PROTECTION CODE: 2015 INTERNATIONAL FIRE CODE
FUEL & GAS CODE: 2015 INTERNATIONAL MECHANICAL CODE (CHAPTER 1108.21)
ENERGY CODE: 2009 ENERGY CONSERVATION CODE 2009 IBC/IMC

MEHLEVILLE FIRE PROTECTION DISTRICT:
BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL EXISTING BUILDING CODE

FIRE PROTECTION CODE: 2021 INTERNATIONAL FIRE CODE

PROJECT DESCRIPTION

FULLY-SPRINKLED, NON-SEPARATED
CONSTRUCTION TYPE IIB

THE SCOPE OF THE PROJECT INCLUDES MINOR INTERIOR RENOVATIONS INCLUDING INTERIOR FINISHES THROUGHOUT, ADA UPGRADES, EXPANDING BOARDROOM AND BREAKROOM, EXISTING BUNK ROOMS, EXPANDING HOUSE KITCHEN/ DAYROOM AND DINING ROOM. EXTERIOR PATIO, SCREENWALL, RETAINING WALL, INTERIOR LIGHTING, MECHANICAL RTU EQUIPMENT REPLACEMENT, AND AN ENTIRE RE-ROOF.

CODE INFORMATION

MIXED USE NONSEPARATED OCCUPANCIES / VB CONSTRUCTION TYPE / BUILDING TO BE FULLY NFPA 13 SPRINKLERED

ALOWABLE BUILDING AREAS & BUILDING HEIGHTS — PER TABLE 504.2 &

	A-3 ASSEMBLY	B BUSINESS	R-3 RESIDENTIAL	S-1 MODERATE HAZARD STORAGE	S-2 LOW HAZARD STORAGE
ALLOWABLE BLDG. HT.	75 FT.	75 FT.	75 FT.	75 FT.	75 FT.
ALLOWABLE NO. OF STORIES	3 STORIES	6 STORIES	5 STORIES	3 STORIES	4 STORIES
ALLOWABLE BUILDING AREA (PER FLOOR)	38,000 S.F.	92,000 S.F.	UNLIMITED.	70,000 S.F.	104,500 S.F.

ACTUAL BUILDING AREAS AND USE GROUP TABULATION

ACT. AREA (G.S.F.) FLOOR	A-3 ASSEMBLY	B BUSINESS	R-3 RESIDENTIAL	S-1 MODERATE HAZARD STORAGE	S-2 LOW HAZARD STORAGE	TOTAL
GROUND LEVEL	5,184 S.F.			3,792 S.F.	7,432 S.F.	16,408 S.F.
LEVEL 01		7,476 S.F.	9,348 S.F.	5,705 S.F.		22,529 S.F.
TOTAL	5,184 S.F.	7,476 S.F.	9,348 S.F.	9,497 S.F.		38,337 S.F.

ACTUAL MAXIMUM BUILDING HEIGHT = 30 FT AND IS 1 SOTRY WITH BASEMENT.
EXISITNG BUILDING IS COMPLIANT WITH THE ALLOWABLE BUILDING AREAS AND BUILDING HEEIGHT REQUIREMENTS

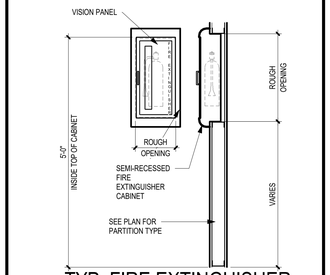
FROM TABLE 601: BUILDING ELEMENTS REQUIRE FIRE-RATING:

TYPE IIB CONSTRUCTION	
STRUCTURAL FRAME:	0 HR
BEARING WALLS	
EXTERIOR:	0 HR
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

FROM TABLE 1006.3.1 NUMBER OF EXITS

GROUND LEVEL	REQUIRED= 2 PROVIDED= 6	LEVEL 01	REQUIRED= 2 PROVIDED= 2

TABLE 1020.1 CORRIDOR FIRE RESISTANCE WITH SPRINKLER SYSTEM		TABLE 1017.2 EXIT TRAVEL WITH SPRINKLER SYSTEM	
R	GREATER THAN 10 OCCUPANTS =1/2 HOUR FIRE-RESISTANCE RATING	R	250 FEET
	10 OR LESS OCCUPANTS =NONE REQUIRED		
S	NONE REQUIRED	S-1	250 FEET
	NONE REQUIRED	S-2	400 FEET
B	NONE REQUIRED	B	300 FEET
A	NONE REQUIRED	A-3	250 FEET



A7 TYP. FIRE EXTINGUISHER CABINET DETAIL
3/4" = 1'-0"

A1 LIFE SAFETY PLAN (LEVEL 01)
1/8" = 1'-0"

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STATE OF MISSOURI
ROY A. MANGAN
A-6661
ARCHITECT
03/15/24
Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/24

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MO Architectural Corporation Archimages, Inc. # 000550
143 West Clinton Place St. Louis, Missouri 63122
p: (314) 965.7445 f: (314) 965.7477
www.archimages-stl.com

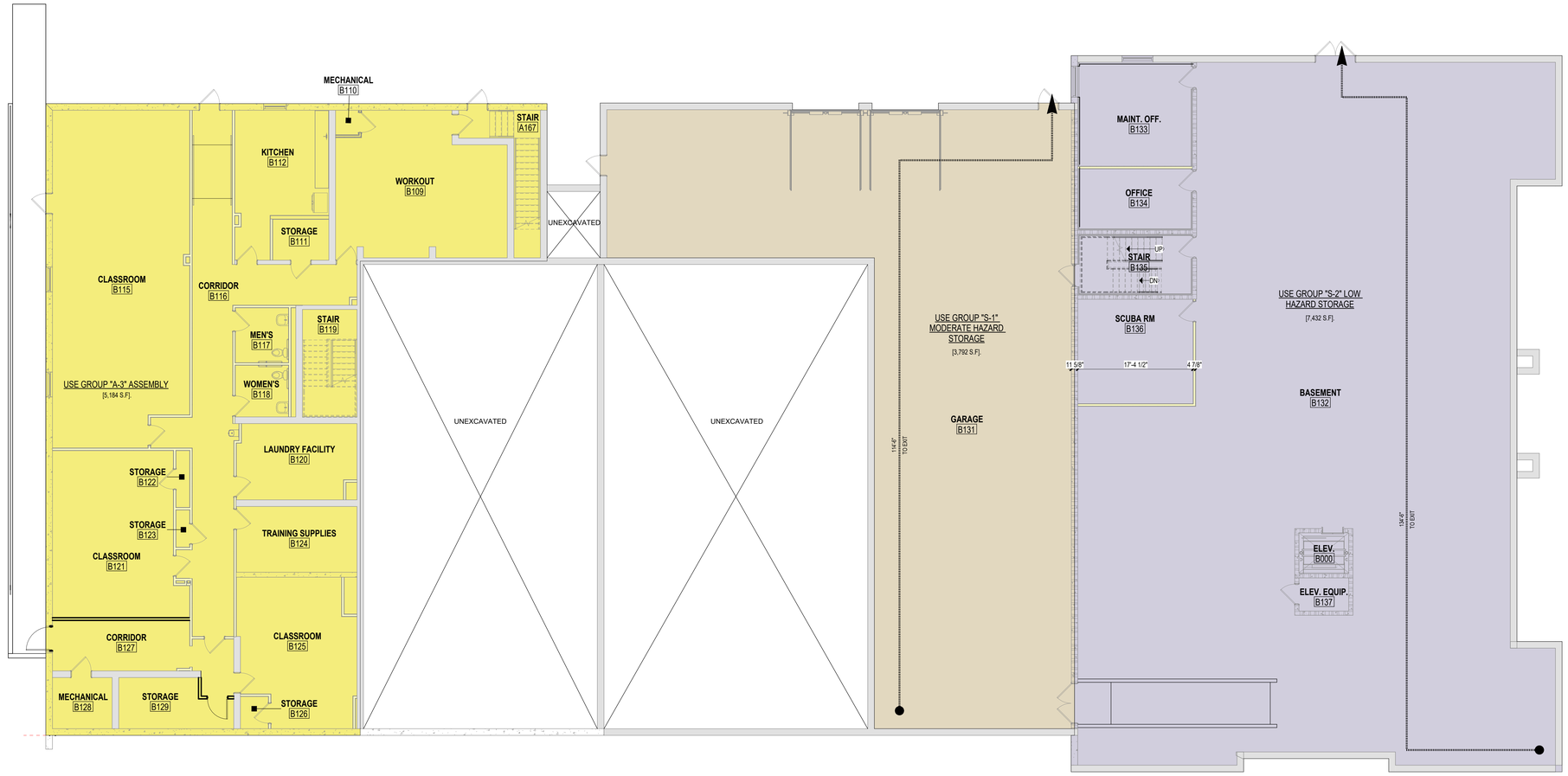
[Consultants]

Proposed:
Mehlville Fire House No5
11020 MUELLER ROAD

No.	Date	Revision

CODE REVIEW/LIFESAFETY PLAN (L01)

Project No. 22135
Sheet No. A010
Date 03/15/2024



A1 OVERALL FLOOR PLAN (GROUND LEVEL)
1/8" = 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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STATE OF MISSOURI
ROY A. MANSKER
NUMBER A-6661
ARCHITECT
03/15/24
Roy A. Mansker

MO Architect License No: A-6661
Expires: 12/31/24

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[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

LIFE SAFETY PLAN (GROUND LEVEL)

Project No.
22135

Sheet No.
A011

Date
03/15/2024

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. P526

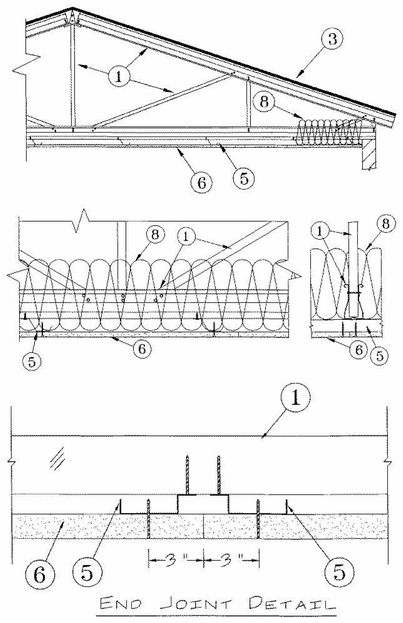
April 13, 2018

Restrained Assembly Rating - 1 and 1-1/2 Hr. (See Items 6, 6A, 8, 8A and 8B)

Unrestrained Assembly Rating - 1 and 1-1/2 Hr. (See Items 6, 6A, 8, 8A and 8B)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



END JOINT DETAIL

1. **Structural Steel Members* —** Pre-fabricated light gauge steel truss system consisting of cold-formed, galv steel chord and web sections. Trusses fabricated in various sizes, depths and from various steel thickness. Trusses spaced a max of 24 or 48 in. OC, See Item 3.
TRUSSTEEL, DIV OF ITW BUILDING COMPONENTS INC — TrusSteel

2. **Bridging —** (Not Shown) — Location of lateral bracing for truss chord and web sections to be specified on truss engineering.

3. **Roof System* —** Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 23/32 in. thick plywood sheathing. Nom 23/32 in. thick plywood sheathing mechanically fastened to top chord of steel trusses with 1-1/4 in. long Type S or S-12 steel screws spaced a max of 12 in. OC As an option, the plywood decking may be installed to min 20 ga. steel purlins or steel hat channels Steel purlins or hat channels to be spaced a max 24 in. OC and welded, or mechanically fastened, transverse to steel roof trusses (Item 1). As an alternate, plywood sheathing thickness may be reduced to 15/32 in. when Item 1 is spaced 24 in. OC and min of 9-1/2 in. thickness of insulation (Item 8) is used. Plywood sheeting thickness may also be reduced to 15/32 in. when roof trusses (Item 1) are spaced a max of 48 in. OC, min 22 ga steel furring channels (Item 5C) spaced a max of 22 in. OC, and a min of 9-1/2 in. thick insulation (Item 8) is used.

3A. **Steel Roof Deck —** (Not Shown)—In lieu of, or in addition to the plywood sheathing described in Item 3, the steel roof deck may consist of corrugated or fluted steel form units, min 9/16 in. deep, 26 MSG painted or galv steel, welded or mechanically fastened at a max 12 in. OC to the top chord of the roof trusses (Item 1). When used in addition to the wood structural panels described in Item 3, Batts and Blankets (Item 8) is optional. When used lieu of the wood structural panels described in Item 3, Batts and Blankets (Item 8) must be used and the Class A, B or C Roofing System must include a min 3/4 in. thickness of roof insulation or 1/2 in. thickness of Classified or unclassified gypsum boards. If polystyrene roof insulation is used, it must be installed on top of a min 1/2 in. thickness of unclassified gypsum boards.

3B. **Structural Cement-Fiber Units* —** (Not Shown) — In lieu of the wood structural panels described in Item 3, steel roof deck and structural cement-fiber units may be installed. The steel roof deck is to consist of corrugated or fluted steel form units, minimum 9/16 in. deep, 22 MSG painted or galv steel, welded or mechanically fastened at a max. 12 in. OC to the top chord of the roof trusses (Item 1). Nominal 19 mm (3/4 in.) thick structural cement-fiber units installed over the steel roof deck and secured to trusses with fasteners spaced a max of 12 in. OC. Batts and Blankets (Item 8) must be used and the Class A, B or C Roofing System must include application over structural cement-fiber units.
ECTEK INTERNATIONAL INC — Armoroc Panel, Type MegaBoard.

4. **Vapor Barrier —** (Not Shown)—Optional—Commercial asphalt saturated felt, 0.030 in. thick, applied over the wood.

5. **Resilient Channels —** Resilient channels formed of 25 MSG galv steel, installed perpendicular to the steel trusses, (Item 1) when trusses are spaced 24 in. OC. Resilient channels spaced a max of 16 in. OC when no insulation (Item 8 or 8A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 8 or 8A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with Type S12 by 1/2 in. long screws.

5A. **Furring Channels —** (Not Shown) — As an alternate to item 5A— Hat channels min 20 MSG galv steel, min 2-5/8 in. wide by min 7/8 in. deep, installed perpendicular to the trusses (Item 1) spaced a max of 16 in. OC. When no insulation (Item 8 or 8A) is fitted in the concealed space, or a max 12 in.OC when insulation (Item 8 or 8A) is fitted in the concealed space, draped over the hat channel/gypsum board ceiling membrane . Two courses of channel positioned 6 in. OC, 3 in. from each end of wallboard. Channel splices overlapped 6 in. beneath steel trusses. Channels secured to each truss with No. 18 SWG steel wire double strand saddle ties. Channels tied together with double strand of No. 18 SWG steel wire at each end overlap.

5B. **Resilient Channels —** (Not Shown) — As an alternate to Items 5 and 5A, resilient channels, double legged formed of 25 MSG galv steel, 2-7/8 in. wide by 1/2 in. deep, installed perpendicular to the trusses (Item 1) spaced max 16 in. OC when no insulation (Item 8 or 8A) is fitted in the concealed space, or a max of 12 in. OC when Insulation (8 or 8A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with Type S12 by 1/2 in. long screws or with No. 18 SWG galv steel wire double strand saddle ties. Channels tied together with double strand of No. 18 SWG galv steel wire at each end of overlap.

5C. **Resilient Channels —** (Not Shown) — As an alternate to Items 5, 5A, and 5B, resilient channels formed of 22 MSG galv steel, installed perpendicular to the steel trusses (Item 1), spaced a max of 12 in OC, when a min 9-1/2 in. thickness of insulation (Item 8) is used. Channels secured to each truss with Type S12 by 1/2 in. long screws.

5D. **Resilient Channels —** (Not Shown) — For use with Items 6A and 8B. As an alternate to Items 5 through 5C. Resilient channels formed of 25 MSG galv steel, installed perpendicular to the steel trusses (Item 1) when steel trusses are spaced a max 24 in. OC. Resilient channels spaced a max of 16 in. OC. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with Type S12 by 1/2 in. long screws.

5E. **Furring Channels —** (Not Shown) — For use with Items 6A and 8B. As an alternate to Items 5 through 5D. Hat channels min 25 MSG galv steel, min 2-5/8 in. wide by min 7/8 in. deep, installed perpendicular to the trusses (Item 1), spaced a max of 16 in. OC. Two courses of channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with No. 18 SWG steel wire double strand saddle ties. Channels tied together with double strand of No. 18 SWG steel wire at each end overlap.

5F. **Resilient Channels —** (Not Shown) — For use with Items 6A and 8B. As an alternate to Items 5 through 5E. Resilient channels, double legged formed of 25 MSG galv steel, 2-7/8 in. wide by 1/2 in. deep, installed perpendicular to the trusses (Item 1) when steel trusses are spaced a max 24 in. OC. Resilient channels spaced a max of 16 in. OC. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with Type S12 by 1/2 in. long screws or with No. 18 SWG galv steel wire double strand saddle ties. Channels tied together with double strand of No. 18 SWG galv steel wire at each end overlap.

6. **Gypsum Board* —** For the 1 Hr. Ratings - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 8 or 8A) is fitted in the concealed space or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 8 or 8A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. For the 1-1/2 Hr. Ratings - Two layers of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Base layer attached to the resilient channels using 1 in. long Type S bugle-head screws spaced a max of 12 in. OC along butted end-joints and in the field. Face layer attached to the resilient channels using 1-5/8 in. long Type S bugle-head screws spaced a max of 8 in. OC along butted end-joints and in the field. Screws staggered from base layer screws. Face layer side and end joints offset a min 16 in. from base layer side and end joints.
CGC INC — Types C, IP-X2, IPC-AR.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR.

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

6A. **Gypsum Board* —** (Not Shown) — For use with Items 5D through 5F and 8B. Rating limited to 1 Hour. One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the furring channels using 1 in. long Type S bugle-head screws spaced 8 in. OC along butted end-joints and in the field.
UNITED STATES GYPSUM CO — Type ULIX

7. **Finishing System —** (Not Shown) —Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

8. **Batts and Blankets* —** For the 1 Hr. Ratings when 23/32 in. thick plywood sheathing (Item 3 is used) — (Optional) — Any thickness mineral wool or glass fiber insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke value of 50 or less. Insulation fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. For the 1 Hr. Ratings when 15/32 in. thick plywood sheathing (Item 3 is used) -Min 9-1/2 in. thickness is required. For the 1-1/2 Hr. Ratings -Min 9-1/2 in. thickness is required.

8A. **Loose Fill Material* —** As an alternate to Item 8 - For the 1 Hr. Ratings when 23/32 in. thick plywood sheathing (Item 3 is used) -Optional -Any thickness of loose fill material bearing the UL Classification Marking for Surface Burning Characteristics having a flame spread value of 25 or less and a smoke spread value of 50 or less. Loose fill material fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. For the 1 Hr. Ratings when 15/32 in. thick plywood sheathing (Item 3 is used) -Min 9-1/2 in. thickness is required. For the 1-1/2 Hr. Ratings -Min 9-1/2 in. thickness is required.

8B. **Cavity Insulation — Batts and Blankets* or Loose Fill Material* —** (Not Shown) — (As described above in Items 8 and 8A) — For Use with Items 5D through 5F and 6A — Rating limited to 1 Hour — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient and furring channel (Items 5D through 5F)/gypsum board (Item 6A) ceiling membrane.

9. **Steel Framing Members —**

a. **Main Runners —** Installed perpendicular to Structural Steel Members — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of Structural Steel Members with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. **Cross tees or channels —** Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face, or cross channels, nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted wallboard end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall angles or channels —** Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in.thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

9A. **Alternate Steel Framing Members* —** (Not Shown) - As an alternate to Item 9 - Not for use with Items 8 or 8A - Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX
screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

10. **Gypsum Board* —** For use with Steel Framing Members (Item 9) when Batts and Blankets* (Item 8) are not used - One layer of nominal 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Wallboard fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span, and one screw located 1-1/2 in. from each wallboard side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At wallboard end joints, wallboard screws shall be located 1/2 in. from the joint. Wallboard fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent wallboard sheets shall be staggered not less than 32 in. Wallboard sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with **Steel Framing Members*** (Item 9) when **Batts and Blankets*** (Item 8) are used – Ratings limited to 1 Hour- 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel wallboard screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long wallboard screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.
CGC INC — Type C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Type C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C, IP-X2, IPC-AR

11. **Gypsum Board* —** For use with Steel Framing Members (Item 9A) - One layer of nominal 5/8 in. thick by 48 in. wide boards, installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.
CGC INC — Type C, IP-X2, IPC-AR
UNITED STATES GYPSUM CO — Type C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C, IP-X2, IPC-AR

USG MEXICO S A DE C V — Type C, IP-X2, IPC-AR

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Last Updated on 2018-04-13

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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THROUGH-PENETRATION FIRESTOP SYSTEM

Assembly Usage Disclaimer

Search Parameters

XHEZ - Through-penetration Firestop Systems

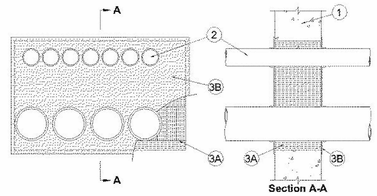
See General Information for Through-penetration Firestop Systems

System No. W-J-1201

June 17, 2010

F Rating — 2 Hr

T Rating — 1/4 Hr



Section A-A

1. **Wall Assembly —** Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 342 sq in. (2206 cm^2) with a max dimension of 22-3/4 in. (578 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants —** One or more metallic pipes or conduits to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipes or conduits shall be min 1/4 in. (6 mm) to max 5-1/2 in. (140 mm). The annular space between the pipes or conduits and the periphery of the opening shall be min 0 in. (point contact) to max 1-3/4 in. (44 mm). Pipes or conduits to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes or conduits may be used:

A. **Steel Pipe —** Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) rigid steel conduit, or electrical metallic tubing (EMT).

3. **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** Min 4 pcf (64 kg/m^3) mineral wool batt insulation cut into strips equal in width to thickness of the wall and tightly-compressed to completely fill opening flush with both wall surfaces.

B. **Fill, Void, or Cavity Material*—Spray —** Min 1/8 in. (3 mm) wet thickness applied to completely cover mineral wool batt packing material on both sides of wall. Spray material to overlap min 1/2 in. (13 mm) onto wall surfaces and onto pipes or conduits.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2010-06-17

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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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THROUGH-PENETRATION FIRESTOP SYSTEM

Assembly Usage Disclaimer

Search Parameters

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

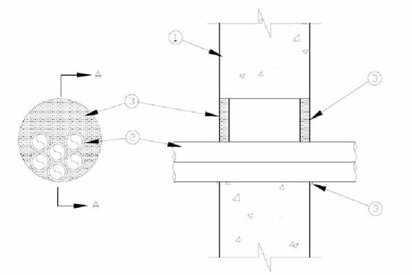
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-J-1221

January 21, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 1-1/2 Hr	FT Rating — 1-1/2 Hr
	FH Rating — 2 Hr
	FTH Rating — 1-1/2 Hr



SECTION A-A

1. **Wall Assembly —** Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 5-1/2 in. (140 mm).

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants —** Max six nom 1 in. (25 mm) diam (or smaller) flexible steel conduits to be installed either concentrically or eccentrically within the firestop system. The annular space between the conduits and the periphery of the opening shall be min 0 in. (point contact) to max 3 in. (76 mm). Conduits to be rigidly supported on both sides of wall.

3. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of sealant applied within annulus, flush with both surfaces of wall. A min 1/2 in. diam bead of sealant to be applied at the conduit/wall interface at the point contact location.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2015-01-21

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- Authorities Having Jurisdiction should be consulted before construction.
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Proposed:

Mehlville Fire House No. 5

11020 MUELLER ROAD

No.	Date	Revision

UL ASSEMBLIES

Project No. 22135

Sheet No. A030

Date 03/15/2024

Design/System/Construction/Assembly Usage Disclaimer

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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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THROUGH-PENETRATION FIRESTOP SYSTEM

Assembly Usage Disclaimer

Search Parameters

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

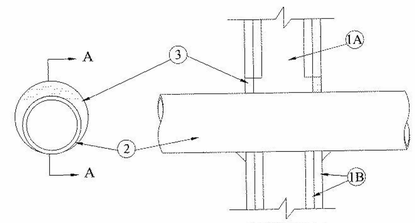
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-1054

October 14, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	FTH Rating — 0 Hr L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

2. **Through-Penetrants —** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe —** Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.

D. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2015-10-14

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No.	Date	Revision

UL ASSEMBLIES

Project No.
22135

Sheet No.
A031

Date
03/15/2024

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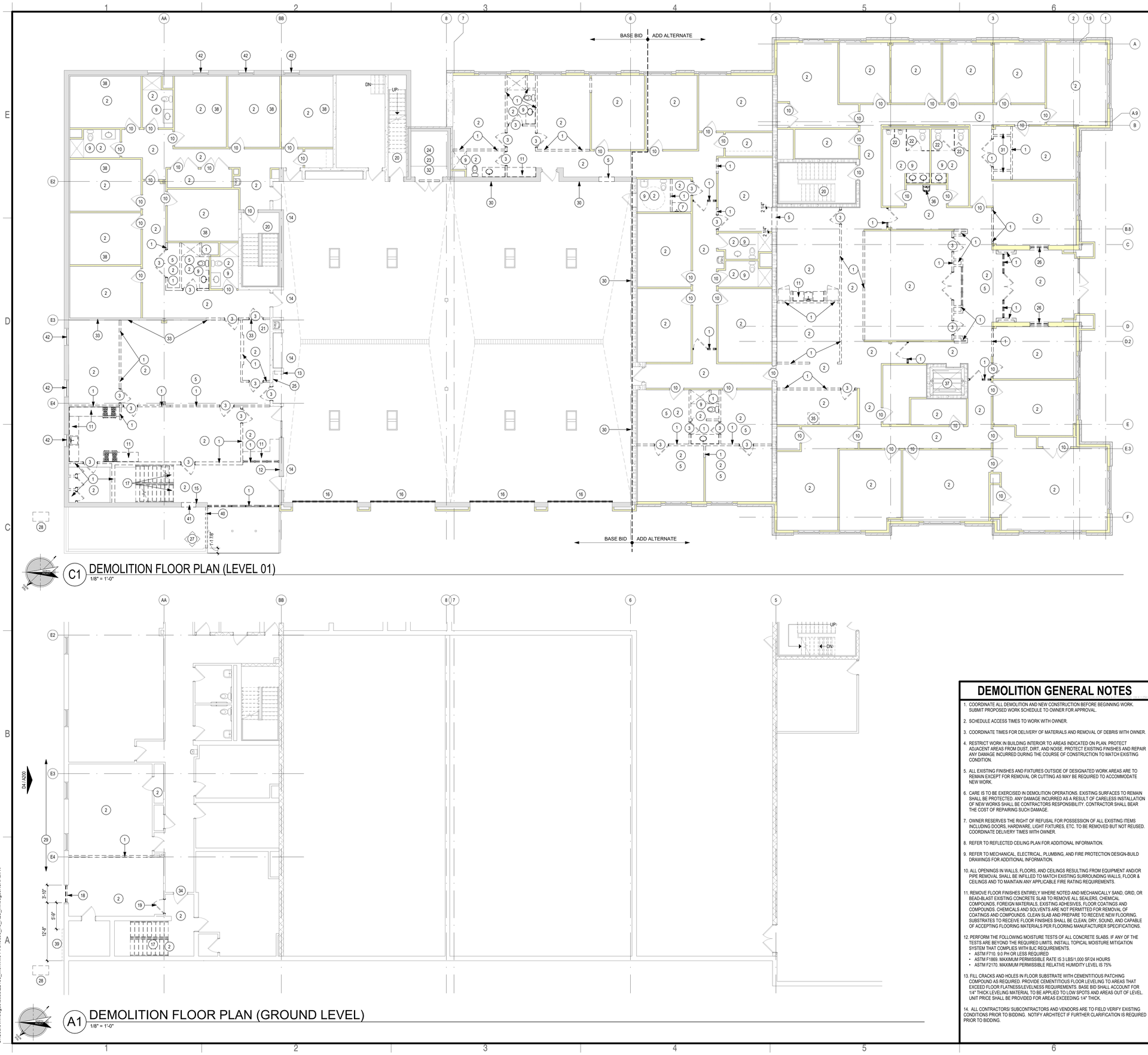

C1 DEMOLITION FLOOR PLAN (LEVEL 01)
1/8" = 1'-0"

A1 DEMOLITION FLOOR PLAN (GROUND LEVEL)
1/8" = 1'-0"

DEMO PLAN KEYED NOTES

MARK	DESCRIPTION
1	REMOVE PARTITION COMPLETLY INCLUDING ALL OUTLETS, SWITCHES, ACCESSORIES, WALL BASE, DOOR/ FRAMES, ETC. SEE FLOOR PLAN FOR EXTENT. PATCH/ REPAIR ANY DAMAGED PARTITION TO REMAIN, MATCH ADJACENT FINISH. RELOCATE ELECTRICAL LINES, AS NEEDED. TERMINATE UNUSED/ DEAD ELECTRICAL LINES AT NEAREST J-BOX, AS NEEDED. FIELD VERIFY PARTITION TYPE PRIOR TO BIDDING.
2	REMOVE FLOORING AND WALL BASE AS REQ FOR NEW FINISHES. PREPARE FLOOR SLAB TO RECIEVE NEW FLOOR FINISH. REPLACE/ REPAIR ANY MATERIAL DAMAGED THAT IS TO REMAIN. REF: FINISH SCHEDULE FOR NEW FLOORING. FIELD VERIFY EXISTING FLOOR FINISHES PRIOR TO BIDDING.
3	REMOVE EXISTING DOOR AND FRAME. SALVAGE DOOR FOR REUSE, PREPARE FOR NEW CONSTRUCTION AS REQ.
4	EXISTING WALL TO REMAIN. PREPARE AS REQUIRED TO RECIEVE NEW PARTITION/ WALL FINISH.
5	REMOVE PORTION OF EXISTING DRYWALL AND CMU WALL TO CREATE PASSAGE.
6	REMOVE ANY EXISTING LIGHT FIXTURES AS REQUIRED TO ALLOW FOR NEW CEILING/ WORK. REF: RCP FOR ADDITIONAL INFORMATION.
7	REMOVE MOP SINK. CAP/ REPAIR PIPE/ FLOOR AS REQUIRED.
8	REMOVE WINDOW SILL AND TRIM/ MOLDING AS REQUIRED FOR INFILL
9	REMOVE ALL PLUMBING FIXTURES INCLUDING CABINETRY AND COUNTERTOPS, AS REQ. PREPARE TO RECEIVE NEW. CAP/ SEAL ANY ABANDONED UNUSED PIPES.
10	EXISTING DOOR TO BE REMOVED AND RETAINED FOR REFINISHING AND REINSTALLATION. EXISTING FRAME TO REMAIN. PATCH/ REPAIR AS REQ. PREPARE FRAME TO RECIEVE DOOR, PAINT AND HARDWARE.
11	REMOVE EXISTING CASEWORK IN IT'S ENTIRETY. REMOVE ANY PLUMBING FIXTURES AND EQUIPMENT AS REQ. TURN EQUIPMENT OVER TO OWNER.
12	REMOVE EXISTING DISPLAY CABINET. REPAIR/ PATCH WALL TO MATCH ADJACENT AS REQUIRED.
13	REMOVE EXISTING PUSH BUTTON PANEL AND ASSOCIATED ITEMS (ELEC, CONDUIT, ETC.) PATCH, REPAIR ANY ITEMS TO REMAIN AS REQ. REROUTE FOR NEW WORK AS REQ. COORDINATE w/ MEP.
14	REMOVE EXISTING DUCTWORK AND GRILLES. REF. MEP FOR ADDITIONAL INFORMATION. PREPARE TO PATCH/ INFILL AS REQ.
15	REMOVE EXISTING PLAQUE. TURN OVER TO FIRE DISTRICT AFTER REMOVAL. PREPARE WALL FOR NEW WORK AS REQ.
16	REMOVE EXISTING OVERHEAD DOOR, TRACKS AND OPERATORS. PREPARE FOR NEW DOOR. REF. MEP.
17	REMOVE EXISTING STAIR IN ITS ENTIRETY. REMOVE STAIR TREADS, RAILS, STRUCTURE, INDERMEDIATE LANDING, ETC. PREPARE FOR INFILL. REF. STRUCTURAL FOR ADDITIONAL INFORMATION.
18	REMOVE EXISTING WINDOW, SILL AND EXTERIOR WALL AS REQ FOR NEW EXTERIOR DOOR. PROTECT SURFACES TO REMAIN. IF DAMAGED, PATCH/ REPAIR TO MATCH ADJACENT SURFACE.
19	REMOVE EXISTING DOOR AND HARDWARE. EXISTING FRAME TO REMAIN. PROTECT SURFACES TO REMAIN. IF DAMAGED, PATCH/ REPAIR TO MATCH ADJACENT SURFACE.
20	REMOVE EXISTING STAIR TREADS AS REQ. FOR NEW FLOOR FINISH. PREPARE SURFACE TO RECEIVE NEW FLOOR FINISH.
21	REMOVE EXISTING SINK. PREPARE TO RECIEVE NEW MOP SINK.
22	REMOVE EXISTING TOILET/ URINAL PARTITIONS FOR REUSE. PROTECT DURING CONSTRUCTION, PREPARE TO REINSTALL. PATCH/ REPAIR IF DANAGED.
23	REMOVE EXISTING METAL GRATE PLATFORM AND STAIR TO PREPARE FOR CONCRETE INFILL. REF. STRUCTURAL AND MEP FOR ADD'L INFORMATION. EXISTING UPPER PLATFORM AND LADDER TO REMAIN.
24	REMOVE EXISTING UNIT HEATER, CONDUIT AND POWER. PREPARE FOR CONCRETE INFILL. REF. STRUCTURAL AND MEP FOR ADD'L INFO.
25	REMOVE EXISTING GRILLE AND ASSOCIATED ITEMS (DUCT, ETC.) PATCH, REPAIR ANY ITEMS TO REMAIN AS REQ. PREPARE TO INFILL.
26	REMOVE EXISTING RECEPTION WINDOW IN IT'S ENTIRETY. REMOVE ONE LAYER OF GYP. BD. (LOBBY FACING SIDE, ENTIRE WALL SURROUND AT WINDOW) TO RECIEVE NEW FINISH. PREPARE OPENING TO RECEIVE NEW BULLET RESISTANT WINDOW AND WALL FINISH. REF. DETAIL FOR ADDITIONAL INFORMATION.
27	REMOVE EXISTING FLAG POLE. TURN OVER FLAG, PLAQUE, ETC. TO OWNER. REF. CIVIL AND STRUCTURAL FOR ADD'L INFORMATION.
28	REMOVE EXISTING GRILL. TURN OVER TO OWNER FOR REUSE. REF. CIVIL AND STRUCTURAL FOR ADDITIONAL INFORMATION.
29	REMOVE EXISTING CURB/ CONCRETE PAVEMENT, GRAVEL, AS REQ. PREPARE FOR NEW WORK, AS REQ. REF. CIVIL AND STRUCTURAL FOR ADDITIONAL INFORMATION.
30	REMOVE EXISTING GEAR RACKS. SALVAGE FOR REUSE. REF. FLOOR PLANS FOR ADDITIONAL INFORMATION.
31	REMOVE PARTITION COMPLETLY INCLUDING ALL OUTLETS, SWITCHES, ACCESSORIES, WALL BASE, DOOR/ FRAMES, ETC. SEE FLOOR PLAN FOR EXTENT. PATCH/ REPAIR ANY DAMAGED PARTITION TO REMAIN, MATCH ADJACENT FINISH. RELOCATE ELECTRICAL LINES, AS NEEDED. TERMINATE UNUSED/ DEAD ELECTRICAL LINES AT NEAREST J-BOX, AS NEEDED. ABANDON EMPTY CHASE FOR NEW WORK, IF THERE IS MEP, STRUCTURAL CONFLICT, STOP ALL WORK. NOTIFY ARCHITECT BEFORE PROCEEDING.
32	G.C. TO REMOVE EXISTING WINDOW AT TOP OF HOSE TOWER. PREP TO RECEIVE NEW MECHANICAL LOUVER. REF. MEP.
33	G.C. TO REMOVE EXISTING GYP. BOARD, THIS SIDE OF STUD WALL TO REMAIN. PREPARE TO RECEIVE SOUND INSULATION/ NEW GYP. AS SHOWN.
34	REMOVE EXISTING TRANSITION STRIP. PREPARE TO RECEIVE NEW FLOORING AS REQ.
35	RELOCATE EXISTING SAFE TO CLOSET IN ROOM A134. VERIFY WITH OWNER.
36	REMOVE EXISTING DRINKING FOUNTAIN. PREPARE FOR NEW DRINKING FOUNTAIN.
37	REMOVE EXISTING FLOORING IN ELEVATOR CAB. PREPARE TO RECEIVE NEW FLOORING. ALL OTHER FINISHES TO REMAIN. PROTECT FINISHES TO REMAIN DURING CONSTRUCTION. IF DAMAGED, PATCH/ REPAIR TO MATCH.
38	REMOVE EXISTING WALL SCONCE (IF APPLICABLE). TERMINATE ELEC. TO NEAREST J-BOX.
39	DASHED LINE INDICATES EXISTING UTILITIES TO REMAIN. COORDINATE WITH NEW WORK.
40	CUT DOWN CONCRETE CURB IN THIS AREA TO RECEIVE NEW CONCRETE SLAB - DOWEL IN NEW AND EXISTING SLABS.
41	REMOVE PORTION OF EXISTING MASONRY WALL PREPARE AREA FOR NEW WORK.
42	REMOVE EXISTING WINDOW IN IT'S ENTIRETY. MASONRY OPENING TO REMAIN AS IS. PROTECT SURFACES TO REMAIN. IF DAMAGED, PATCH/ REPAIR TO MATCH ADJACENT SURFACE. PREPARE OPENING TO RECIEVE NEW WINDOW. REF. FLOOR PLAN FOR ADD'L INFO.

DEMOLITION GENERAL NOTES

1. COORDINATE ALL DEMOLITION AND NEW CONSTRUCTION BEFORE BEGINNING WORK. SUBMIT PROPOSED WORK SCHEDULE TO OWNER FOR APPROVAL.
2. SCHEDULE ACCESS TIMES TO WORK WITH OWNER.
3. COORDINATE TIMES FOR DELIVERY OF MATERIALS AND REMOVAL OF DEBRIS WITH OWNER.
4. RESTRICT WORK IN BUILDING INTERIOR TO AREAS INDICATED ON PLAN. PROTECT ADJACENT AREAS FROM DUST, DIRT, AND NOISE. PROTECT EXISTING FINISHES AND REPAIR ANY DAMAGE INCURRED DURING THE COURSE OF CONSTRUCTION TO MATCH EXISTING CONDITION.
5. ALL EXISTING FINISHES AND FIXTURES OUTSIDE OF DESIGNATED WORK AREAS ARE TO REMAIN EXCEPT FOR REMOVAL OR CUTTING AS MAY BE REQUIRED TO ACCOMMODATE NEW WORK.
6. CARE IS TO BE EXERCISED IN DEMOLITION OPERATIONS. EXISTING SURFACES TO REMAIN SHALL BE PROTECTED. ANY DAMAGE INCURRED AS A RESULT OF CARELESS INSTALLATION OF NEW WORKS SHALL BE CONTRACTORS RESPONSIBILITY. CONTRACTOR SHALL BEAR THE COST OF REPAIRING SUCH DAMAGE.
7. OWNER RESERVES THE RIGHT OF REFUSAL FOR POSSESSION OF ALL EXISTING ITEMS INCLUDING DOORS, HARDWARE, LIGHT FIXTURES, ETC. TO BE REMOVED BUT NOT REUSED. COORDINATE DELIVERY TIMES WITH OWNER.
8. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.
9. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DESIGN-BUILD DRAWINGS FOR ADDITIONAL INFORMATION.
10. ALL OPENINGS IN WALLS, FLOORS, AND CEILINGS RESULTING FROM EQUIPMENT AND/OR PIPE REMOVAL SHALL BE INFILLED TO MATCH EXISTING SURROUNDING WALLS, FLOOR & CEILINGS AND TO MAINTAIN ANY APPLICABLE FIRE RATING REQUIREMENTS.
11. REMOVE FLOOR FINISHES ENTIRELY WHERE NOTED AND MECHANICALLY SAND, GRID, OR BEAD-BLAST EXISTING CONCRETE SLAB TO REMOVE ALL SEALERS, CHEMICAL COMPOUNDS, FOREIGN MATERIALS, EXISTING ADHESIVES, FLOOR COATINGS AND COMPOUNDS. CHEMICALS AND SOLVENTS ARE NOT PERMITTED FOR REMOVAL OF COATINGS AND COMPOUNDS. CLEAN SLAB AND PREPARE TO RECEIVE NEW FLOORING. SUBSTRATES TO RECEIVE FLOOR FINISHES SHALL BE CLEAN, DRY, SOUND, AND CAPABLE OF ACCEPTING FLOORING MATERIALS PER FLOORING MANUFACTURER SPECIFICATIONS.
12. PERFORM THE FOLLOWING MOISTURE TESTS OF ALL CONCRETE SLABS. IF ANY OF THE TESTS ARE BEYOND THE REQUIRED LIMITS, INSTALL TOPICAL MOISTURE MITIGATION SYSTEM THAT COMPLIES WITH BJC REQUIREMENTS.
    - ASTM F710. 9.0 PH OR LESS REQUIRED
    - ASTM F1869. MAXIMUM PERMISSIBLE RATE IS 3 LBS/1,000 SF/24 HOURS
    - ASTM F2170. MAXIMUM PERMISSIBLE RELATIVE HUMIDITY LEVEL IS 75%
13. FILL CRACKS AND HOLES IN FLOOR SUBSTRATE WITH CEMENTITIOUS PATCHING COMPOUND AS REQUIRED. PROVIDE CEMENTITIOUS FLOOR LEVELING TO AREAS THAT EXCED FLOOR FLATNESS/LEVELNESS REQUIREMENTS. BASE BID SHALL ACCOUNT FOR 1/4" THICK LEVELING MATERIAL TO BE APPLIED TO LOW SPOTS AND AREAS OUT OF LEVEL. UNIT PRICE SHALL BE PROVIDED FOR AREAS EXCEEDING 1/4" THICK.
14. ALL CONTRACTORS/ SUBCONTRACTORS AND VENDORS ARE TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. NOTIFY ARCHITECT IF FURTHER CLARIFICATION IS REQUIRED PRIOR TO BIDDING.

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No.	Date	Revision

DEMO FLOOR PLANS

Project No. 22135
Sheet No. A100
Date 03/15/2024

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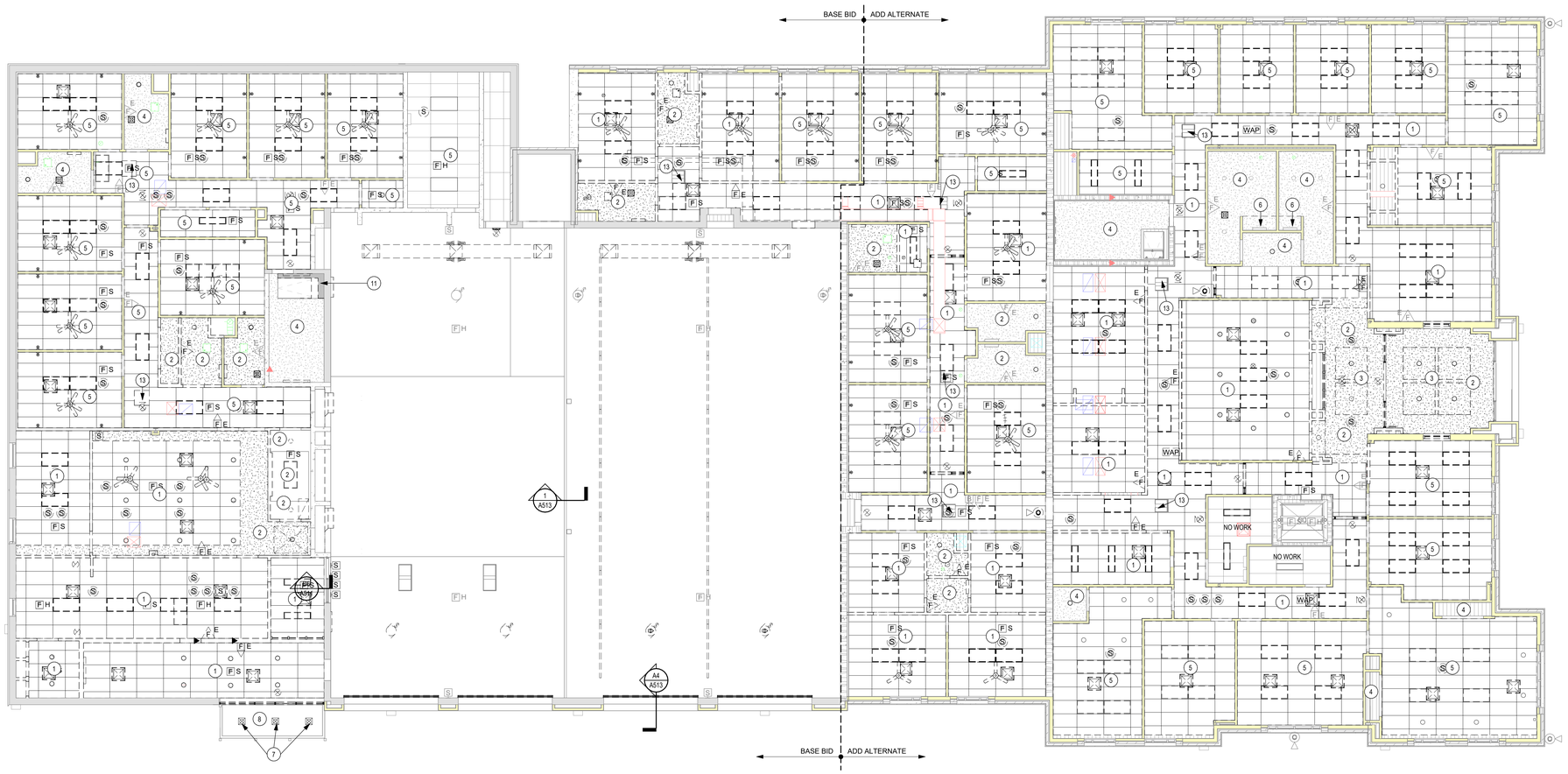

C1 REFLECTED CEILING PLAN DEMO
1/8" = 1'-0"

A1 LOWER LEVEL PLAN DEMO
1/8" = 1'-0"

RCP DEMO KEYED NOTES

MARK	DESCRIPTION
1	REMOVE ANY EXISTING CEILING ELEMENTS (GRID/ TILE, LIGHT FIXTURES, ETC.) TO FULL EXTENT, AS REQUIRED TO ALLOW FOR NEW CEILING/ WORK. INCLUDING MEP COMPONENTS AS REQ. IF PRESENT, STRUCTURAL BEAMS TO REMAIN. REMOVE ANY CLADDING/ FINISH AS REQ.
2	REMOVE EXISTING GYP. BD. CEILING TO FULL EXTENT - LIGHT FIXTURES, ETC. INCLUDING MEP COMPONENTS AS REQ.
3	REMOVE EXISTING WOOD BEAM CLADING. STRUCTURAL STEEL BEAM TO REMAIN. REF. RCP FOR NEW WORK.
4	PROTECT EXISTING CEILING TO REMAIN TO ALLOW FOR NEW WORK. REPAIR GYP. BD. AS REQ FOR NEW LIGHT FIXTURES/ MEP COMPONENTS, ETC. REF. RCP/ MEP FOR EXTENT OF WORK.
5	REMOVE EXISTING ACT CEILING TILES AND LIGHT FIXTURES, INCLUDING MEP COMPONENTS, AS REQ. CEILING GRID TO REMAIN. REWORK/ ADD GRID, AS REQ. PREPARE FOR NEW TILES, LIGHT FIXTURES AND MEP COMPONENTS, AS REQ.
6	REMOVE EXISTING SOFFIT. PREPARE FOR NEW WORK AS REQ.
7	REMOVE EXISTING EXTERIOR LIGHT FIXURE. PREPARE FOR NEW WORK AS REQ.
8	REMOVE EXISTING EXTERIOR CEILING UNDER CANOPY. PREPARE FOR NEW WORK AS REQ.
9	REMOVE GYP. BD. ON UNDERSIDE OF STAIR. PREPARE TO RECEIVE NEW FINISH ON STRUCTURE ABOVE.
10	EXISTING GYP. BD. CLG. IN CORRIDOR TO REMAIN. PREPARE TO FINISH ALL EXPOSED SURFACES TO REMAIN. IF DAMAGED, PATCH TO MATCH ADJACENT.
11	REMOVE EXISTING CEILING FOR INSTALLATION OF NEW ROOF SCUTTLE/HATCH. -REFERNCE APLLICALBLE ROOF SCUTTLE DETAILS FOR DIMENSIONS. FIELD VERIFY ALL DIMENSIONS PRIOR TO DEMOLITION.
12	PROTECT EXISTING CEILING TO REMAIN TO ALLOW FOR NEW WORK. REF. RCP/ MEP FOR EXTENT OF WORK.
13	EXISTING SKYLITE TO REMAIN - PROTECT DURING CONSTRUCTION.

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DEMO - REF. CLG. PLANS

Project No.
22135

Sheet No.
A101

Date
03/15/2024

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FLOOR PLAN GENERAL NOTES

1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING CONSTRUCTION.
3. ALL DIMENSIONS ARE TO THE FINISH FACE OF NEW PARTITIONS AND TO FINISH FACE OF EXISTING INTERIOR PARTITIONS AND PERIMETER WALLS TO REMAIN UNLESS NOTED OTHERWISE.
4. PATCH, LEVEL, AND/OR FEATHER THE EXISTING FLOOR SUCH THAT THE NEW FLOOR IS LEVEL AND ALL TRANSITIONS ARE LEVEL AND SMOOTH.
5. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS REQUIRED.
6. PATCH ALL PARTITIONS AFFECTED BY THE DEMOLITION OF INTERSECTING PARTITIONS.
7. PATCH ALL FLOORS AFFECTED BY THE REMOVAL OF EXISTING FINISHES AND DEMOLITION OF PARTITIONS, EQUIPMENT, CASEWORK, ETC.
8. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL CASEWORK, SHELVING, AND EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS.
9. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS OTHER THAN THE EXISTING IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
10. ALL INTERIOR DIMENSIONS ARE TO FINISHED FACE OF GYP. BD. UNLESS NOTED OTHERWISE.
11. ALL ITEMS TO BE RELOCATED AND REUSED ARE TO BE STORED BY THE CONTRACTOR UNTIL REINSTALLATION. PROTECT FROM DAMAGE THROUGHOUT CONSTRUCTION.
12. PATCH/INFILL ALL HOLES WITHIN EXISTING WALLS AND PREPARE FOR REFINISHING.
13. ALL BLOCKING SHALL BE FIRE TREATED.
14. ALL PENETRATIONS THROUGH NEW AND EXISTING FIRE AND/OR SMOKE RATED ASSEMBLIES (PARTITIONS, FLOORS, CEILINGS, ETC.) SHALL BE SEALED TO PROVIDE A RATING EQUAL OR GREATER THAN THE RATING OF THE ASSEMBLY. VERIFY WORK REQUIRED.
15. PARTITIONS SURROUNDING FIRE RATED EXIT ENCLOSURES AND EXIT PASSAGEWAYS SHALL NOT BE PENETRATED BY MECHANICAL OR ELECTRICAL UTILITIES WHICH DO NOT SERVE THE ENCLOSURE/PASSAGEWAY EXCEPT AS PERMITTED BY APPLICABLE CODES.
16. WHEN INFILLING AN EXISTING PARTITION, MATCH ADJACENT PARTITION TYPE AND FINISH. VERIFY NEW PARTITIONS COORDINATE WITH ADJACENT PARTITION TYPES AND HEIGHTS. IF CONFLICT OCCURS REGARDING MEP REQUIREMENTS, STOP ALL WORK AND NOTIFY ARCHITECT.

GENERAL NOTES

1. COORDINATE LOCATION OF ALL F.F.E. ITEMS WITH MECH., ELECTRICAL, AND PLUMBING PRIOR TO INSTALLATION.
2. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND CONNECTION OF ALL OWNER SUPPLIED EQUIPMENT U.N.O.
3. GENERAL CONTRACTOR TO PROVIDE AND INSTALL 20GA. FLAT METAL BACKING STRIPS FOR ALL WALL MOUNTED ITEMS INCLUDING, BUT NOT LIMITED TO, CABINETS, T.V. BRACKETS, SHELVING, PLUMBING FIXTURES, TOILET ACCESSORIES AND ALL OWNER SUPPLIED WALL MOUNTED ITEMS. (NOTE: 2X WOOD BLOCKING MAY BE USED IN LIEU OF 20GA. METAL).

EQUIPMENT SCHEDULE

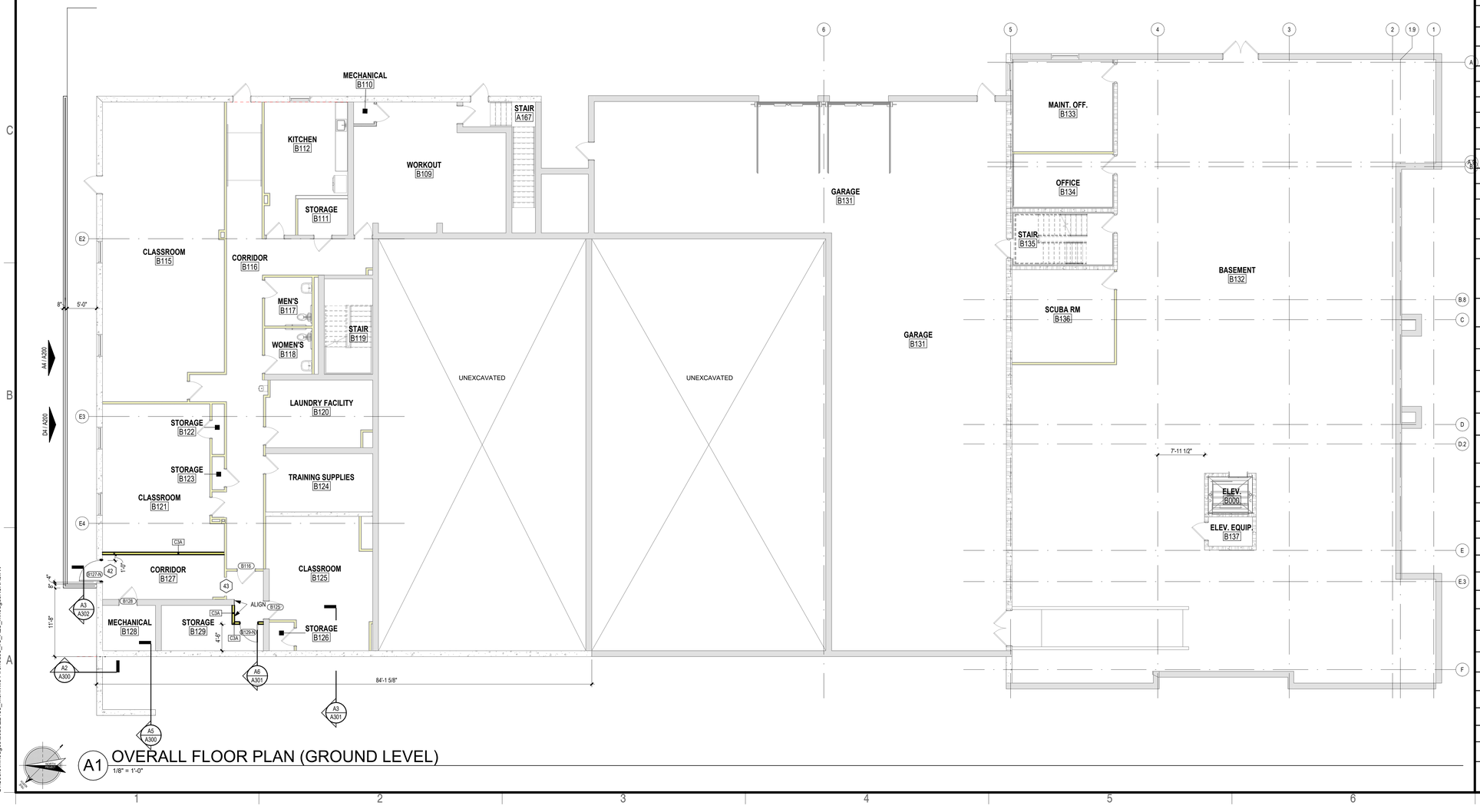
		PROVIDED OWNER	PROVIDED G.C.	INSTALLED OWNER	INSTALLED G.C.
A	REFRIGERATOR - KitchenAid Model # KBFF305ESS INCLUDE WATER LINE HOOKUP	X			X
B	MICROWAVE	X		X	
C	DISHWASHER - KitchenAid Model # KDTE334GPS	X			X
D	GAS COOKTOP - KitchenAid Model # KCGS556ESS	X			X
E	STAINLESS STEEL HOOD		X		X
F	DOUBLE STACKED ELECTRIC OVEN	X			X
G	RESIDENTIAL WASHER	X			X
H	RESIDENTIAL DRYER	X			X
J	WALL MOUNTED TV/MONITOR W/WALL BRACKET	X			X
K	TWIN MURPHY BED	X		X	
L	MISC. FURNITURE	X		X	
M	PAPER TOWEL DISPENSER	X			X
N	ICE MAKER	X			X
P	EXTRACTOR - Dexter Model # T-400	X			X
Q	AIR COMPRESSOR - Ingersoll Rand Model # 2340N3		X		X

EQUIPMENT SCHEDULE

		PROVIDED OWNER	PROVIDED G.C.	INSTALLED OWNER	INSTALLED G.C.
R	GEAR LOCKERS		X		X
S	STAINLESS STEEL SCULLERY SINK		X		X
T	VENDING MACHINE	X		X	
U	TRAINING MANHOLE		X		X
V	EXTERIOR BUILDING SIGNAGE	X		X	
W	EXTERIOR MONUMENT SIGNAGE & READER BOARD	X		X	
X	COFFEE MAKER WITH WATER LINE	X		X	
Y	ELECTRIC STOVE / OVEN	X			X
Z	S.S. KITCHEN HOOD W/ FIRE SUPPRESSION SYS.		X		X
A1	UNDERCOUNTER REFRIGERATOR	X		X	
A2	DOUBLE ROBE HOOK BOBRICK B-672		X		X
A3	SCBA EQUIPMENT	X		X	
AV-1	55" / 82" MONITOR W/ BRACKETS - REF. ELEC	X		X	
AV-2	PROJECTION SCREEN - REF. ELEC.	X		X	
AV-3	CEILING MOUNTED PROJECTOR - REF. ELEC.	X		X	
AV-4	WALL MOUNTED SPEAKER - REF. ELEC.	X		X	
AV-5	CAMERA - REF. ELEC.	X		X	

FLOOR PLAN KEYED NOTES

1. NEW EXTERIOR STOREFRONT. CENTER STOREFRONT IN EXISTING STOREFRONT LOCATION. IF UNFINISHED PORTION OF WALL IS EXPOSED, NOTIFY ARCHITECT. REF. GLAZING PARTITIONS AND DETAILS.
2. EXISTING CANOPY TO REMAIN. REPLACE/ REFINISH EXTERIOR CEILING/ LIGHTING AND STRUCTURAL METAL, AS SHOWN. GRIND DOWN/ OUT JOINTS AND RE-CAULK (COLOR TO MATCH). REF. RCP AND FINISH PLANS.
3. NEW CONCRETE PATIO, FLAG POLE (REF. DETAIL) AND BBQ GRILL. VERIFY LOCATIONS WITH OWNER. REF. MEP AND CIVIL FOR ADD'L INFO.
4. NEW MASONRY RETAINING WALL. MASONRY COLOR TO MATCH EXISTING, SUBMIT TO ARCHITECT FOR APPROVAL. REF. CIVIL FOR ADDITIONAL INFO.
5. NEW BABY BOX. INSTALL PER MANF. REQ. REF. DETAILS FOR ADD'L INFO.
6. NEW INTERIOR STOREFRONT. REF. GLAZING PARTITIONS AND DETAILS.
7. TIME CLOCK LOCATION. PROVIDE POWER/ DATA AS REQ. REF. MEP.
8. PLASTIC LAMINATE COUNTERTOP w/ 4" BACKSPLASH, SIDESPLASH AND BASE CABINETS. REF. FINISH PLAN AND DETAILS FOR ADDITIONAL INFORMATION.
9. ADJUSTABLE PLAM SHELVING AND STANDARDS. PROVIDE POWER AT EACH SHELF FOR CHARGING STATION. REF. ELEVATIONS AND MEP FOR ADD'L INFO.
10. COFFEE STATION. QUARTZ COUNTEROP, DECORATIVE BACKSPLASH AND XX" DEEP BASE CABINET. PROVIDE WATER LINE/ POWER FOR COFFEE MAKER. REF. FINISH PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
11. QUARTZ COUNTEROP AND BAR TOP WITH BASE CABINETRY. REF. ELEVATIONS AND FINISH PLANS FOR ADDITIONAL INFORMATION. PROVIDE PLUMBING/ POWER/ EQUIPMENT AS SHOWN. SOFFIT PAINTED HIGHLIGHT COLOR ABOVE BAR w/ DECORATIVE LIGHT FIXTURES. REF. MEP.
12. QUARTZ COUNTERTOPS/ DECORATIVE BACKSPLASH AND UPPER (WHERE SHOWN) (INCLUDE UNDER CABINET LIGHTING) AND BASE CABINETRY. REF. ELEVATIONS AND FINISH PLANS FOR ADD'L INFO. PROVIDE PLUMBING/ POWER/ EQUIPMENT AS SHOWN.
13. COOKTOP HOOD W/ FIRE SUPPRESSION SYS. - REF. MECHANICAL
14. QUARTZ COUNTERTOP & WOOD BASE CABINET AT FLOATING CRADENZA. PROVIDE GLASS DOORS FOR AV CABINET. PROVIDE POWER/ DATA AS REQ. REF. MEP.
15. INSTALL NEW WINDOW TREATMENTS. REF. FINISH PLAN FOR ADD'L INFO.
16. NEW ROOF HATCH AND LADDER. REF. DETAILS FOR ADDITIONAL INFORMATION.
17. O.H. GARAGE DOOR - REF. SPECIFICATIONS FOR ADDITIONAL INFORMATION.
18. PARTITION TO REMAIN. RE- DRYWALL STUD WALL, THIS SIDE OF THE PARTITION. EXTEND WALL TO DECK ABOVE, PROVIDE SOUND CAULK AT ROOF DECK. PROVIDE SOUND INSULATION IN PARTITION. PAINT/ FINISH AS REQ.
19. PROVIDE INSULATION ABOVE CEILING AT EXTERIOR WALL. STUFF INSULATION IN VOIDS IN WALL AS REQ.
20. NEW MASONRY WALLS FOR MEP CHASE. REF. PARTITION TYPES FOR ADD'L INFO.
21. NEW SHOWER PAN, WALL FINISHES AND GLASS SHOWER DOOR. REF. FINISH PLAN FOR ADD'L INFO. EXISTING DRAIN TO REMAIN. REF. MEP.
22. PROVIDE FLOATING VANITY. PROVIDE NEW TOILET FIXTURES, TO BE LOCATED IN EXISTING FIXTURE LOCATIONS. EXISTING FLOOR DRAIN TO REMAIN. REF. MEP.
23. PROVIDE CONCRETE INFILL. REF. STRUCTURAL. NEW ARCHITECTURAL LOUVER IN EXISTING WINDOW LOCATION. REF. DETAILS FOR ADD'L INFO.
24. PROVIDE GEAR LOCKERS (37 TOTAL) - REF. SPECIFICATIONS.
25. UTILITY SINK - REF. PLUMBING.
26. UTILITY SINK W/ DRAINBOARD - FIELD VERIFY SIZE. REF. PLUMBING DWGS
27. ADJUSTABLE PLASTIC LAMINATE SHELVING AND STANDARDS.
28. PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH. OWNER PROVIDED FILE CABINETS. COORDINATE COUNTERTOP w/ FILE CABINETS.
29. PLASTIC LAMINATE COUNTERTOPS, BACKSPLASH AND UPPER (WHERE SHOWN) AND BASE CABINETRY. REF. ELEVATIONS AND FINISH PLANS FOR ADD'L INFO.
30. RELOCATED EXISTING SAFE. COORDINATE w/ OWNER.
31. EXISTING MONITOR TO REMAIN. PROTECT DURING CONSTRUCTION.
32. EXISTING ELEVATOR & FINISHES TO REMAIN (GLG. AND WALL). NEW FLOORING - REF. FINISH PLAN. PROTECT FINISHES TO REMAIN DURING CONSTRUCTION.
33. PLASTIC LAMINATE COUNTERTOP, BACKSPLASH AND SIDESPLASH. PLASTIC LAMINATE BASE CABINET. REF. ELEVATIONS FOR ADD'L INFO.
34. QUARTZ COUNTERTOP AND BASE CABINET. REF. ELEVATIONS AND FINISH PLANS FOR ADD'L INFO. PROVIDE POWER/ DATA FOR MONITOR ABOVE. REF. MEP.
35. CUSTOM BUILT-N DIAS, WOOD VENEER FRONT FACADE w/CONCEALED BULLET RESISTANT PANELS, QUARTZ TRANSACTION TOP. DASHED LINE INDICATES CONTINUOUS CONCEALED UNDER COUNTER LED LIGHT FIXTURE UNDER TRANSACTION TOP. LAMINATE REMOVABLE INTERIOR PANELS w/BLACK METAL SUPPORT BRACKETS. PLAM WORKSURFACE. SEE FINISH PLAN & FIN. SCHEDULE.
36. DECORATIVE WOOD PANELS w/ DECORATIVE REVEALS. PROVIDE BLOCKING FOR OWNER PROVIDED SIGNAGE. VERICAL AND HORITONAL COVE LIGHTING ON EACH SIDE OF WOOD PANELS. REF. ELEVATIONS AND MEP FOR ADD'L INFO.
37. DISPLAY CABINET w/ OVERHEAD LIGHTING. REF. ELEVATIONS, FINISH PLANS, DETAILS AND MEP FOR ADDITIONAL INFORMATION.
38. NEW BULLET RESISTANT PARTITION AND BULLET RESISTANT RECEPTION WINDOW. REF. SPECIFICATIONS AND DETAIL FOR ADDITIONAL INFOMATION.
39. NEW QUARTZ COUNTERTOP AND DECORATIVE BACKSPLASH w/ NEW VANITY AND LIGHT FIXTURES. REF. MEP FOR ADDITIONAL INFORMATION.
40. REINSTALL EXISTING TOILET PARTITIONS AND URINAL SCREENS. PATCH/ REPAIR IF DAMAGED DURING CONSTRUCTION.
41. PROVIDE NEW TOILET FIXTURES, TO BE LOCATED IN EXISTING FIXTURE LOCATIONS. EXISTING FLOOR DRAINS TO REMAIN. REF. MEP.
42. NEW HOLOW METAL DOOR AND TRANSOM WINDOW TO BE FULL WIDTH OF EXISTING OPENING, F.V. PRIOR TO ORDERING. PATCH/ REPAIR ANY EXPOSED SURFACES OF EXISTING BUILDING TO MATCH ADJACENT.
43. HOLLOW METAL FRAME AND WOOD TRANSOM TO REMAIN. PAINT TO MATCH DOOR FRAME COLOR. REPAIR AS REQ, FROM REMOVAL OF DOOR/ HARDWARE.
44. DRINKING FOUNTAIN WITH BOTTLE FILLER - REF. MEP.
45. PLASTIC LAMINATE COUNTERTOP - REF. RECEPTION WINDOW DETAIL FOR ADDITIONAL INFORMATION.
46. MONITOR FOR DASH - VERIFY WITH OWNER.
47. GYP. BOARD TO BE LEVEL 5 FINISH - PREPARE TO RECEIVE WALL GRAPHIC.
48. NEW TRENCH DRAIN. -SEE PLUMBING DWG'S.
49. NEW MASONRY SCREEN WALL. -SEE EXTERIOR ELEVATIONS AND APPLICABLE ARCHITECTURAL & STRUCTURAL WALL SECTIONS.
50. NEW 6" THK. CONCRETE PATIO SLAB. SLOPE AWAY FROM BUILDING TO MATCH EXISTING WALKWAY. -SEE STRUCTURAL DRAWINGS.
51. PATCH/ REPAIR GYP. BOARD WHERE SCONCE WAS REMOVED. GYP. BD. TO BE SMOOTH AND FLUSH. PAINT AS REQ.
52. FURR OUT NEW STUD WALL PARTITION TO CREATE A CHASE FOR NEW BREAKROOM EQUIPMENT AND ELECTRICAL NEEDS.
53. ALL WALLS TO BE FLUSH AND SMOOTH AFTER DEMO WORK. FURR/ FEATHER/ SMOOTH AS REQ.
54. NEW (EJ-EX-1) EXPANSION JOINT. -SEE DETAIL SHEET A300.
55. NEW (EJ-EX-2) EXPANSION JOINT. -SEE DETAIL SHEET A300.
56. NEW TOOLED CONTROL JOINT DETAIL (CJ-EX-1). -SEE DETAIL SHEET A300.
57. EXISTING CONCRETE SLAB TO REMAIN.
58. NEW INTERIOR HOLLOW METAL FRAME AND WINDOW - REF. ELEVATION AND GLAZING SCHEDULE FOR ADD'L INFO.
59. NEW 2"x4 1/2" THERMALLY BROKEN STOREFRONT SYSTEM WITH 1" INSULATED GALZING PER SCHEDULE. SIZE AND COLOR TO MATCH EXISTING WINDOW OPENING AND TYPE.



A1 OVERALL FLOOR PLAN (GROUND LEVEL)
1/8" = 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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STATE OF MISSOURI — ROY ALAN MARSDEN — A-6661 — ARCHITECT
03/15/24
Roy A. Marsden
MO Architect License No: A-6661
Expires: 12/31/24

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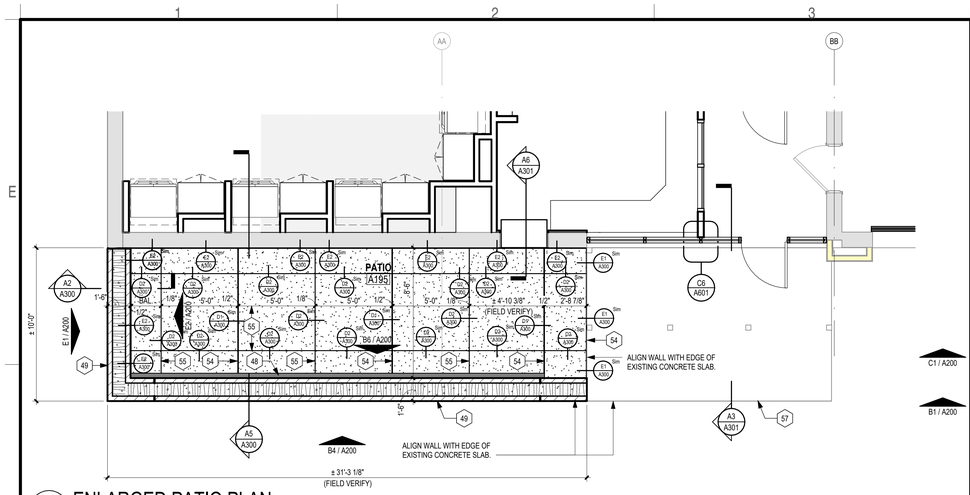
[Consultants]

Proposed:
Mehlville Fire House No5
11020 MUELLER ROAD

No.	Date	Revision

OVERALL FLOOR PLAN (GROUND LVL.)

Project No. 22135
Sheet No. A102
Date 03/15/2024



D1 ENLARGED PATIO PLAN
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING CONSTRUCTION.
3. ALL DIMENSIONS ARE TO THE FINISH FACE OF NEW PARTITIONS AND TO FINISH FACE OF EXISTING INTERIOR PARTITIONS AND PERIMETER WALLS TO REMAIN UNLESS NOTED OTHERWISE.
4. PATCH, LEVEL, AND/OR FEATHER THE EXISTING FLOOR SUCH THAT THE NEW FLOOR IS LEVEL AND ALL TRANSITIONS ARE LEVEL AND SMOOTH.
5. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS REQUIRED.
6. PATCH ALL PARTITIONS AFFECTED BY THE DEMOLITION OF INTERSECTING PARTITIONS.
7. PATCH ALL FLOORS AFFECTED BY THE REMOVAL OF EXISTING FINISHES AND DEMOLITION OF PARTITIONS, EQUIPMENT, CASEWORK, ETC.
8. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL CASEWORK, SHELVING, AND EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS.
9. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS OTHER THAN THE EXISTING IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
10. ALL INTERIOR DIMENSIONS ARE TO FINISHED FACE OF GYP. BD. UNLESS NOTED OTHERWISE.
11. ALL ITEMS TO BE RELOCATED AND REUSED ARE TO BE STORED BY THE CONTRACTOR UNTIL REINSTALLATION. PROTECT FROM DAMAGE THROUGHOUT CONSTRUCTION.
12. PATCH/INFILL ALL HOLES WITHIN EXISTING WALLS AND PREPARE FOR REFINISHING.
13. ALL BLOCKING SHALL BE FIRE TREATED.
14. ALL PENETRATIONS THROUGH NEW AND EXISTING FIRE AND/OR SMOKE RATED ASSEMBLIES (PARTITIONS, FLOORS, CEILINGS, ETC.) SHALL BE SEALED TO PROVIDE A RATING EQUAL OR GREATER THAN THE RATING OF THE ASSEMBLY. VERIFY WORK REQUIRED.
15. PARTITIONS SURROUNDING FIRE RATED EXIT ENCLOSURES AND EXIT PASSAGEWAYS SHALL NOT BE PENETRATED BY MECHANICAL OR ELECTRICAL UTILITIES WHICH DO NOT SERVE THE ENCLOSURE/PASSAGEWAY EXCEPT AS PERMITTED BY APPLICABLE CODES.
16. WHEN INFILLING AN EXISTING PARTITION, MATCH ADJACENT PARTITION TYPE AND FINISH. VERIFY NEW PARTITIONS COORDINATE WITH ADJACENT PARTITION TYPES AND HEIGHTS. IF CONFLICT OCCURS REGARDING MEP REQUIREMENTS, STOP ALL WORK AND NOTIFY ARCHITECT.

EQUIPMENT SCHEDULE

		PROVIDED OWNER	PROVIDED G.C.	INSTALLED OWNER	INSTALLED G.C.
A	REFRIGERATOR - KitchenAid Model # KBFF305ESS INCLUDE WATER LINE HOOKUP	X			X
B	MICROWAVE	X		X	
C	DISHWASHER - KitchenAid Model # KDTE334GPS	X			X
D	GAS COOKTOP - KitchenAid Model # KCGS556ESS	X			X
E	STAINLESS STEEL HOOD		X		X
F	DOUBLE STACKED ELECTRIC OVEN	X			X
G	RESIDENTIAL WASHER	X			X
H	RESIDENTIAL DRYER	X			X
J	WALL MOUNTED TV/MONITOR W/WALL BRACKET	X			X
K	TWIN MURPHY BED	X		X	
L	MISC. FURNITURE	X		X	
M	PAPER TOWEL DISPENSER	X			X
N	ICE MAKER	X			X
P	EXTRACTOR - Dexter Model # T-400	X			X
Q	AIR COMPRESSOR - Ingersoll Rand Model # 2340N3		X		X

EQUIPMENT SCHEDULE

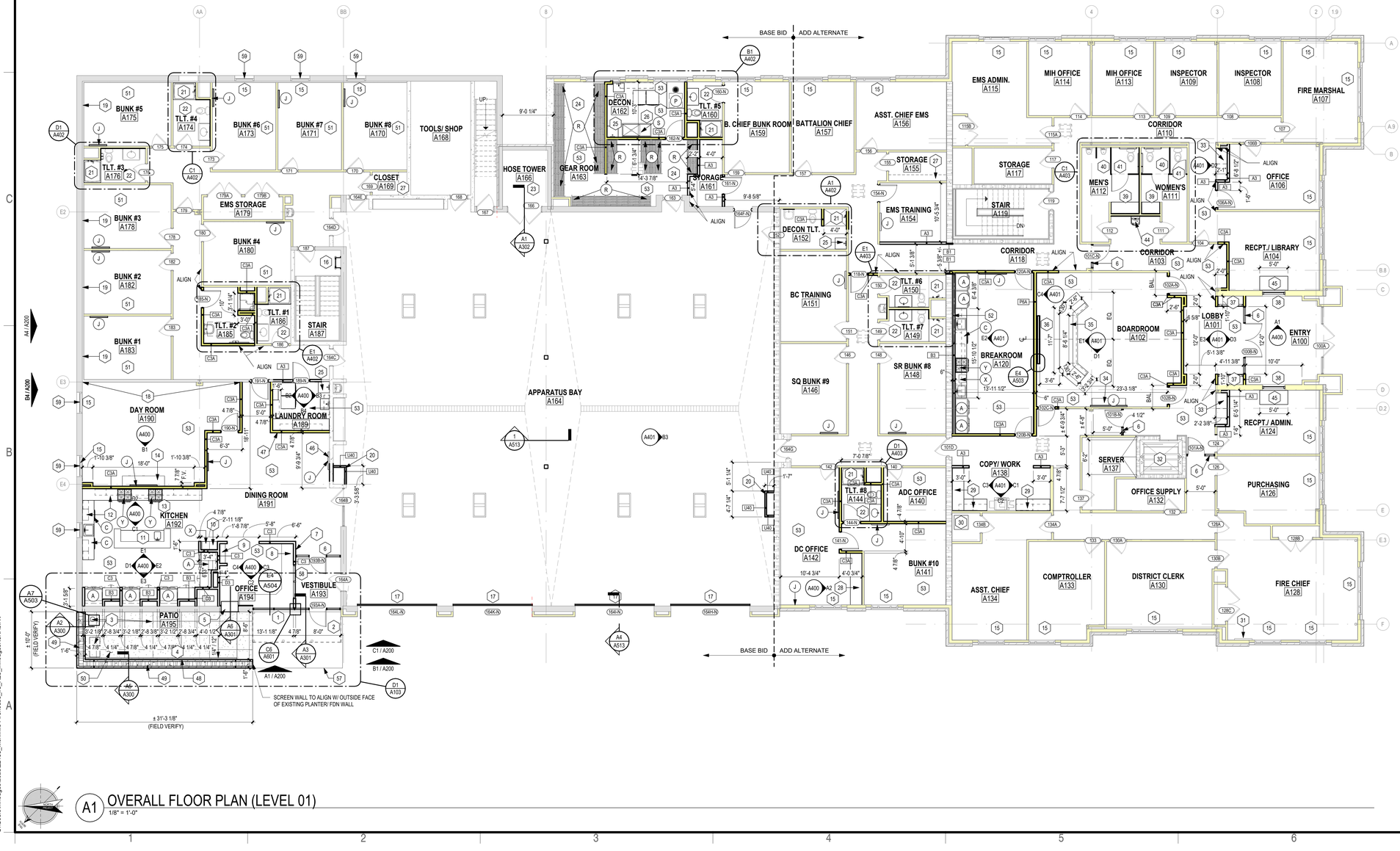
		PROVIDED OWNER	PROVIDED G.C.	INSTALLED OWNER	INSTALLED G.C.
R	GEAR LOCKERS		X		X
S	STAINLESS STEEL SCULLERY SINK		X		X
T	VENDING MACHINE	X		X	
U	TRAINING MANHOLE		X		X
V	EXTERIOR BUILDING SIGNAGE	X		X	
W	EXTERIOR MONUMENT SIGNAGE & READER BOARD	X		X	
X	COFFEE MAKER WITH WATER LINE	X		X	
Y	ELECTRIC STOVE / OVEN	X			X
Z	S.S. KITCHEN HOOD W/ FIRE SUPPRESSION SYS.		X		X
A1	UNDERCOUNTER REFRIGERATOR	X		X	
A2	DOUBLE ROBE HOOK BOBRICK B-672		X		X
A3	SCBA EQUIPMENT	X		X	
AV-1	55" / 82" MONITOR W/ BRACKETS - REF. ELEC	X		X	
AV-2	PROJECTION SCREEN - REF. ELEC.	X		X	
AV-3	CEILING MOUNTED PROJECTOR - REF. ELEC.	X		X	
AV-4	WALL MOUNTED SPEAKER - REF. ELEC.	X		X	
AV-5	CAMERA - REF. ELEC.	X		X	

GENERAL NOTES

1. COORDINATE LOCATION OF ALL F.F.E. ITEMS WITH MECH., ELECTRICAL AND PLUMBING PRIOR TO INSTALLATION.
2. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND CONNECTION OF ALL OWNER SUPPLIED EQUIPMENT U.N.O.
3. GENERAL CONTRACTOR TO PROVIDE AND INSTALL 20GA. FLAT METAL BACKING STRIPS FOR ALL WALL MOUNTED ITEMS INCLUDING, BUT NOT LIMITED TO, CABINETS, T.V. BRACKETS, SHELVING, PLUMBING FIXTURES, TOILET ACCESSORIES AND ALL OWNER SUPPLIED WALL MOUNTED ITEMS. (NOTE: 2X WOOD BLOCKING MAY BE USED IN LIEU OF 20GA. METAL).

FLOOR PLAN KEYED NOTES

1	NEW EXTERIOR STOREFRONT. CENTER STOREFRONT IN EXISTING STOREFRONT LOCATION. IF UNFINISHED PORTION OF WALL IS EXPOSED, NOTIFY ARCHITECT. REF. GLAZING PARTITIONS AND DETAILS.
2	EXISTING CANOPY TO REMAIN. REPLACE/ REFINISH EXTERIOR CEILING/ LIGHTING AND STRUCTURAL METAL, AS SHOWN. GRIND DOWN/ OUT JOINTS AND RE-CAULK (COLOR TO MATCH). REF. RCP AND FINISH PLANS.
3	NEW CONCRETE PATIO, FLAG POLE (REF. DETAIL) AND BBQ GRILL. VERIFY LOCATIONS WITH OWNER. REF. MEP AND CIVIL FOR ADD'L INFO.
4	NEW MASONRY RETAINING WALL. MASONRY COLOR TO MATCH EXISTING, SUBMIT TO ARCHITECT FOR APPROVAL. REF. CIVIL FOR ADDITIONAL INFO.
5	NEW BABY BOX. INSTALL PER MANF. REQ. REF. DETAILS FOR ADD'L INFO.
6	NEW INTERIOR STOREFRONT. REF. GLAZING PARTITIONS AND DETAILS.
7	TIME CLOCK LOCATION. PROVIDE POWER/ DATA AS REQ. REF. MEP.
8	PLASTIC LAMINATE COUNTERTOP w/ 4" BACKSPLASH, SIDESPLASH AND BASE CABINETS. REF. FINISH PLAN AND DETAILS FOR ADDITIONAL INFORMATION.
9	ADJUSTABLE PLAM SHELVING AND STANDARDS. PROVIDE POWER AT EACH SHELF FOR CHARGING STATION. REF. ELEVATIONS AND MEP FOR ADD'L INFO.
10	COFFEE STATION. QUARTZ COUNTEROP, DECORATIVE BACKSPLASH AND XX" DEEP BASE CABINET. PROVIDE WATER LINE/ POWER FOR COFFEE MAKER. REF. FINISH PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
11	QUARTZ COUNTEROP AND BAR TOP WITH BASE CABINETRY. REF. ELEVATIONS AND FINISH PLANS FOR ADDITONAL INFORMATION. PROVIDE PLUMBING/ POWER/ EQUIPMENT AS SHOWN. SOFFIT PAINTED HIGHLIGHT COLOR ABOVE BAR w/ DECORATIVE LIGHT FIXTURES. REF. MEP.
12	QUARTZ COUNTERTOPS/ DECORATIVE BACKSPLASH AND UPPER (WHERE SHOWN) (INCLUDE UNDER CABINET LIGHTING) AND BASE CABINETRY. REF. ELEVATIONS AND FINISH PLANS FOR ADD'L INFO. PROVIDE PLUMBING/ POWER/ EQUIPMENT AS SHOWN.
13	COOKTOP HOOD W/ FIRE SUPPRESSION SYS. - REF. MECHANICAL
14	QUARTZ COUNTERTOP & WOOD BASE CABINET AT FLOATING CRADENZA. PROVIDE GLASS DOORS FOR AV CABINET. PROVIDE POWER/ DATA AS REQ. REF. MEP.
15	INSTALL NEW WINDOW TREATMENTS. REF. FINISH PLAN FOR ADD'L INFO.
16	NEW ROOF HATCH AND LADDER. REF. DETAILS FOR ADDITIONAL INFORMATION.
17	O.H. GARAGE DOOR - REF. SPECIFICATIONS FOR ADDITIONAL INFORMATION.
18	PARTITION TO REMAIN. RE- DRYWALL STUD WALL, THIS SIDE OF THE PARTITION. EXTEND WALL TO DECK ABOVE, PROVIDE SOUND CAULK AT ROOF DECK. PROVIDE SOUND INSULATION IN PARTITION. PAINT/ FINISH AS REQ.
19	PROVIDE INSULATION ABOVE CEILING AT EXTERIOR WALL. STUFF INSULATION IN VOIDS IN WALL AS REQ.
20	NEW MASONRY WALLS FOR MEP CHASE. REF. PARTITION TYPES FOR ADD'L INFO.
21	NEW SHOWER PAN, WALL FINISHES AND GLASS SHOWER DOOR. REF. FINISH PLAN FOR ADD'L INFO. EXISTING DRAIN TO REMAIN. REF. MEP.
22	PROVIDE FLOATING VANITY. PROVIDE NEW TOILET FIXTURES, TO BE LOCATED IN EXISTING FIXTURE LOCATIONS. EXISTING FLOOR DRAIN TO REMAIN. REF. MEP.
23	PROVIDE CONCRETE INFILL. REF. STRUCTURAL. NEW ARCHITECTURAL LOUVER IN EXISTING WINDOW LOCATION. REF. DETAILS FOR ADD'L INFO.
24	PROVIDE GEAR LOCKERS (37 TOTAL) - REF. SPECIFICATIONS.
25	UTILITY SINK - REF. PLUMBING.
26	UTILITY SINK W/ DRAINBOARD - FIELD VERIFY SIZE. REF. PLUMBING DWGS
27	ADJUSTABLE PLASTIC LAMINATE SHELVING AND STANDARDS.
28	PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH. OWNER PROVIDED FILE CABINETS. COORDINATE COUNTERTOP w/ FILE CABINETS.
29	PLASTIC LAMINATE COUNTERTOPS, BACKSPLASH AND UPPER (WHERE SHOWN) AND BASE CABINETRY. REF. ELEVATIONS AND FINISH PLANS FOR ADD'L INFO.
30	RELOCATED EXISTING SAFE. COORDINATE w/ OWNER.
31	EXISTING MONITOR TO REMAIN. PROTECT DURING CONSTRUCTION.
32	EXISTING ELEVATOR & FINISHES TO REMAIN (GLG. AND WALL). NEW FLOORING - REF. FINISH PLAN. PROTECT FINISHES TO REMAIN DURING CONSTRUCTION.
33	PLASTIC LAMINATE COUNTERTOP, BACKSPLASH AND SIDESPLASH. PLASTIC LAMINATE BASE CABINET. REF. ELEVATIONS FOR ADDL INFO.
34	QUARTZ COUNTERTOP AND BASE CABINET. REF. ELEVATIONS AND FINISH PLANS FOR ADD'L INFO. PROVIDE POWER/ DATA FOR MONITOR ABOVE. REF. MEP.
35	CUSTOM BUILT-IN DIAS, WOOD VENEER FRONT FACADE w/CONCEALED BULLET RESISTANT PANELS, QUARTZ TRANSACTION TOP. DASHED LINE INDICATES CONTINUOUS CONCEALED UNDER COUNTER LED LIGHT FIXTURE UNDER TRANSACTION TOP. LAMINATE REMOVABLE INTERIOR PANELS w/BLACK METAL SUPPORT BRACKETS. PLAM WORKSURFACE. SEE FINISH PLAN & F/N. SCHEDULE.
36	DECORATIVE WOOD PANELS w/ DECORATIVE REVEALS. PROVIDE BLOCKING FOR OWNER PROVIDED SIGNAGE. VERICAL AND HORITONAL COVE LIGHTING ON EACH SIDE OF WOOD PANELS. REF. ELEVATIONS AND MEP FOR ADD'L INFO.
37	DISPLAY CABINET w/ OVERHEAD LIGHTING. REF. ELEVATIONS, FINISH PLANS, DETAILS AND MEP FOR ADDITIONAL INFORMATION.
38	NEW BULLET RESISTANT PARTITION AND BULLET RESISTANT RECEPTION WINDOW. REF. SPECIFICATIONS AND DETAIL FOR ADDITIONAL INFOMATION.
39	NEW QUARTZ COUNTERTOP AND DECORATIVE BACKSPLASH w/ NEW VANITY AND LIGHT FIXTURES. REF. MEP FOR ADDITIONAL INFORMATION.
40	REINSTALL EXISTING TOILET PARTITIONS AND URINAL SCREENS. PATCH/ REPAIR IF DAMAGED DURING CONSTRUCTION.
41	PROVIDE NEW TOILET FIXTURES, TO BE LOCATED IN EXISTING FIXTURE LOCATIONS. EXISTING FLOOR DRAINS TO REMAIN. REF. MEP.
42	NEW HOLOW METAL DOOR AND TRANSOM WINDOW TO BE FULL WIDTH OF EXISTING OPENING, F.V. PRIOR TO ORDERING. PATCH/ REPAIR ANY EXPOSED SURFACES OF EXISTING BUILDING TO MATCH ADJACENT.
43	HOLLOW METAL FRAME AND WOOD TRANSOM TO REMAIN. PAINT TO MATCH DOOR FRAME COLOR. REPAIR AS REQ, FROM REMOVAL OF DOOR/ HARDWARE.
44	DRINKING FOUNTAIN WITH BOTTLE FILLER - REF. MEP.
45	PLASTIC LAMINATE COUNTERTOP - REF. RECEPTION WINDOW DETAIL FOR ADDITIONAL INFOMATION.
46	MONITOR FOR DASH - VERIFY WITH OWNER.
47	GYP. BOARD TO BE LEVEL 5 FINISH - PREPARE TO RECEIVE WALL GRAPHIC.
48	NEW TRENCH DRAIN. -SEE PLUMBING DWG'S.
49	NEW MASONRY SCREEN WALL. -SEE EXTERIOR ELEVATIONS AND APPLICABLE ARCHITECTURAL & STRUCTURAL WALL SECTIONS.
50	NEW 6" THK. CONCRETE PATIO SLAB. SLOPE AWAY FROM BUILDING TO MATCH EXISTING WALKWAY -SEE STRUCTURAL DRAWINGS.
51	PATCH/ REPAIR GYP. BOARD WHERE SCONCE WAS REMOVED. GYP. BD. TO BE SMOOTH AND FLUSH. PAINT AS REQ.
52	FURR OUT NEW STUD WALL PARTITION TO CREATE A CHASE FOR NEW BREAKROOM EQUIPMENT AND ELECTRICAL NEEDS.
53	ALL WALLS TO BE FLUSH AND SMOOTH AFTER DEMO WORK. FURR/ FEATHER/ SMOOTH AS REQ.
54	NEW (EJ-EX-1) EXPANSION JOINT. -SEE DETAIL SHEET A300.
55	NEW (EJ-EX-2) EXPANSION JOINT. -SEE DETAIL SHEET A300.
56	NEW TOOLED CONTROL JOINT DETAIL (CJ-EX-1). -SEE DETAIL SHEET A300.
57	EXISTING CONCRETE SLAB TO REMAIN.
58	NEW INTERIOR HOLLOW METAL FRAME AND WINDOW - REF. ELEVATION AND GLAZING SCHEDULE FOR ADD'L INFO.
59	NEW 2"x4 1/2" THERMALLY BROKEN STOREFRONT SYSTEM WITH 1" INSULATED GALZING PER SCHEDULE. SIZE AND COLOR TO MATCH EXISTING WINDOW OPENING AND TYPE.



A1 OVERALL FLOOR PLAN (LEVEL 01)
1/8" = 1'-0"

STATE OF MISSOURI
ROY A. MONTGOMERY
NUMBER A-6661
ARCHITECT
03/15/24
Roy A. Montgomery
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Proposed:
Mahville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

OVERALL FLOOR PLAN (LEVEL 01)

Project No. 22135
Sheet No. A103
Date 03/15/2024

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REFLECTED CEILING PLAN KEYED NOTES

1	CEILING FAN - REF. ELECTRICAL DWGS.
2	GYP. BD. SOFFIT TO BE PAINTED HIGHLIGHT COLOR, P9, ALL SIDES OF SOFFIT. SEE FINISH SCHEDULE.
3	GYP. BD. TRAY CEILING, PAINT VERTICAL FACE AND PERIMETER SOFFIT (P3). HORIZONTAL FACE AT TOP OF TRAY CEILING TO BE (WC1).
4	GYP. BD. CEILING. PAINT (P3).
5	GYP. BD. SOFFIT IN BOARDROOM. PAINT (P3).
6	GYP. BD. BULKHEAD BOTTOM AT 8'-0" SEE DETAIL D3 / A112
7	UNDERSIDE OF GYP. BD. SOFFIT AT RECEPTION WINDOW PAINT (P1).
8	NEW LED 2'x4' LIGHT FIXTURE. REF. ELECTRICAL DRAWINGS FOR ADD'L INFO.
9	WALL WASH COVE LIGHT. REF. ELECTRICAL DRAWINGS FOR ADD'L INFO.
10	NEW LED LINEAR 6"x10' LIGHT FIXTURE. REF. ELECTRICAL DRAWINGS FOR ADD'L INFO.
11	NEW CEILING TILES ONLY, THIS LOCATION. EXISTING CEILING GRID TO REMIAN. PAINT EXISTING GRID (P12). REWORK AS REQ FOR NEW CONSTRUCTION.
12	EXISTING STRUCTURE TO REMAIN. PAINT EXISTING OPEN CEILING (P8).
13	NEW LED DOWNLIGHT FIXTURE. REF. ELECTRICAL DRAWINGS FOR ADD'L INFO.
14	NEW GYP. BD. CEILING TO BE FLUSH WITH EXISTING CEILING. SURFACE TO BE FLUSH AND SMOOTH. PAINT (P3).
15	NEW CEILING TILES AND GRID. INSTALL NEW CELING TO NEAREST MAIN "T" OF EXISTING. MATCH EXISTING TILE AND ALIGN GRID. REWORK AS REQ.
16	EXISTING CELING AT CORRIDOR TO REMAIN. PAINT EXISTING CEILING (P8).
17	PAINT NEW EXPOSED STUCTURAL INFILL (P8).
18	EXISTING CEILING GRID AND CEILING TILES TO REMAIN.
19	NEW ROOF HATCH ACCESS PANEL. PATCH GYP. CEILING AS REQ.
20	NEW CEILING GRID AND CEILING TILES - REF. FINISH SCHEDULE.
21	EXISTING SKYLITE TO REMAIN. CUT CEILING GRID AS REQ. USE SUPPORT "T'S" GRID AS REQ. - COORDINATE WITH MEP COMPONENTS.
22	USE VERTICAL AXIOM TRIM PIECE AT WINDOW TO FINISH VERTICAL SURFACE OF CEILING.

REFLECTED CEILING GENERAL NOTES

1. ALL CEILING, BULKHEAD AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
2. SHOULD ANY CONFLICT ARISE BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
3. PAINT ALL GYPSUM BOARD SOFFITS. -REFERENCE REFLECTED CEILING PLAN KEYNOTES AND FINISH SCHEDULE.
4. PROVIDE CONCEALED WHITE SPRINKLERS AT ALL GYPSUM BOARD CEILINGS AND SOFFITS UNLESS NOTED OTHERWISE.
5. ALL FLOATING "CLOUD" CEILINGS ARE TO BE HUNG WITH AIRCRAFT CABLE (NO EXCEPTIONS) IF APPLICABLE TO THIS PROJECT.
6. 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.
7. REFERENCE MECHANICAL DRAWINGS FOR BALANCE OF MECHANICAL INFORMATION (i.e. SUPPLY DIFFUSERS, RETURN AIR GRILLES, ETC.).
8. 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.
9. LIGHT FIXTURES, EXIT SIGNS, FIRE STROBES/CHIMES, ETC. TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
10. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN A RETURN AIR PLENUM.
11. ALL CEILING, BULKHEAD, AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
12. WHERE SPRINKLER SYSTEMS ARE USED, PROVIDE SPRINKLER HEADS TO MATCH EXISTING BUILDING STANDARD. REF. FIRE PROTECTION DRAWINGS.

A2 REFLECTED CEILING PLAN (GROUND LEVEL)
1/8" = 1'-0"

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Proposed:
Mehlville Fire House No5
11020 MUELLER ROAD

RCP (GROUND LVL.)

No.	Date	Revision

Project No. 22135
Sheet No. A110
Date 03/15/2024

3/21/2024 2:13:34 PM
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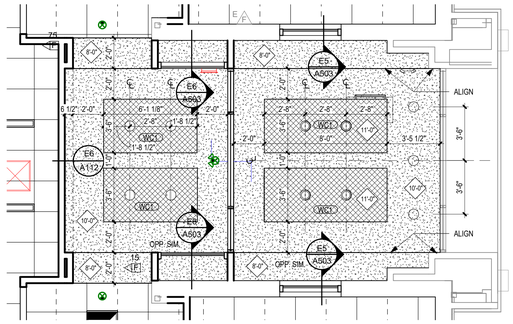
SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 1' 6" 3" 0
SCALE: 1" = 1'-0" 2" 1' 6" 0 3"
SCALE: 3/4" = 1'-0" 2" 1' 0 4"
SCALE: 1/2" = 1'-0" 2" 1' 0 6"
SCALE: 3/8" = 1'-0" 6" 4" 2" 0 8"
SCALE: 1/4" = 1'-0" 8" 4" 2" 0 16"
SCALE: 1/8" = 1'-0" 16" 8" 4" 0 24"
SCALE: 3/32" = 1'-0" 16" 8" 0 32"
SCALE: 1/16" = 1'-0" 32" 16" 8" 0 48"



E1 ENLARGED REFLECTED CEILING PLAN - LOBBY
1/4" = 1'-0"

CEILING PLAN LEGEND

NOTE: SOME SYMBOLS MAY NOT BE USED IN THIS DRAWING OR PROJECT.

	SUSPENDED LAY-IN ACOUSTICAL PANEL CEILING AND TEE-GRID SUSPENSION SYSTEM (2'X4').
	SUSPENDED LAY-IN ACOUSTICAL PANEL CEILING AND TEE-GRID SUSPENSION SYSTEM (2'X2').
	5/8" GYPSUM BOARD BULKHEAD, CEILING OR SOFFIT. -REF. APPLICABLE DETAILS AND SECTIONS.
	FIBER CEMENT SOFFIT BOARD - REF. DTLS. FOR TYPE - PAINT
	ACRYLIC PLASTER FINISH

	CEILING MOUNTED RETURN AIR GRILLE. -REF. MECHANICAL DRAWINGS FOR TYPE.
	CEILING MOUNTED SUPPLY DIFFUSER. -REF. MECHANICAL DRAWINGS FOR TYPE.
	EXHAUST DUCT. -REF. MECHANICAL DRAWINGS FOR TYPE.
S	CEILING MOUNTED SPEAKER GRILLE. -REF. ELECTRICAL DRAWINGS FOR TYPE.
	SPRINKLER HEAD. -REF. PLUMBING DRAWINGS FOR TYPE.
	2'X4' LAY-IN FLUORESCENT LIGHT FIXTURE. -REF. ELECTRICAL DRAWINGS FOR TYPE.
	2'X2' LAY-IN FLUORESCENT LIGHT FIXTURE. -REF. ELECTRICAL DRAWINGS FOR TYPE.
	RECESSED CAN LIGHT FIXTURE. -REF. ELECTRICAL DRAWINGS FOR TYPE.
	RECESSED CAN DIRECTIONAL LIGHT FIXTURE. -REF. ELECTRICAL DRAWINGS FOR TYPE.
	SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE. -REF. ELECTRICAL DRAWINGS FOR TYPE AND SIZE.
	DIRECT/INDIRECT FLUORESCENT LIGHT FIXTURE. -REF. ELECTRICAL DRAWINGS FOR TYPE AND SIZE.
	FLUORESCENT STRIP LIGHT FIXTURE. -SEE ELECTRICAL DRAWINGS FOR TYPE AND SIZE.
	DECORATIVE PENDANT MOUNTED LIGHT FIXTURE. -REF. ELECTRICAL DRAWINGS FOR TYPE.
	WALL MOUNTED LIGHT FIXTURE. -REF. ELECTRICAL DRAWINGS FOR TYPE.

REFLECTED CEILING PLAN KEYED NOTES

1	CEILING FAN - REF. ELECTRICAL DWGS.
2	GYP. BD. SOFFIT TO BE PAINTED HIGHLIGHT COLOR, P9, ALL SIDES OF SOFFIT. SEE FINISH SCHEDULE.
3	GYP. BD. TRAY CEILING, PAINT VERTICAL FACE AND PERIMETER SOFFIT (P3). HORIZONTAL FACE AT TOP OF TRAY CEILING TO BE (WC1).
4	GYP. BD. CEILING. PAINT (P3).
5	GYP. BD. SOFFIT IN BOARDROOM. PAINT (P3).
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REFLECTED CEILING GENERAL NOTES

1. ALL CEILING, BULKHEAD AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
2. SHOULD ANY CEILING HEIGHT CONFLICT ARISE BETWEEN STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUESTCLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
3. PAINT ALL GYPSUM BOARD SOFFITS. -REFERENCE REFLECTED CEILING PLAN KEYNOTES AND FINISH SCHEDULE.
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6. 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.
7. REFERENCE MECHANICAL DRAWINGS FOR BALANCE OF MECHANICAL INFORMATION (i.e. SUPPLY DIFFUSERS, RETURN AIR GRILLES, ETC.).
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12. WHERE SPRINKLER SYSTEMS ARE USED, PROVIDE SPRINKLER HEADS TO MATCH EXISTING BUILDING STANDARD. REF. FIRE PROTECTION DRAWINGS.

A1 REFLECTED CEILING PLAN (LEVEL 01)
1/8" = 1'-0"

STATE OF MISSOURI
ROY A. MEYER
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Proposed:
Mehlville Fire House No5
11020 MUELLER ROAD

No.	Date	Revision

RCP - (LEVEL 01)

Project No. 22135
Sheet No. A111
Date 03/15/2024

3/21/2024 2:13:48 PM
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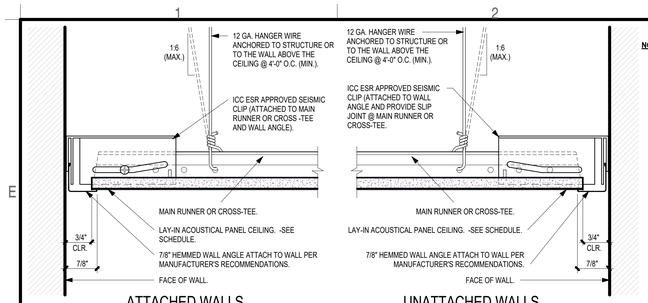
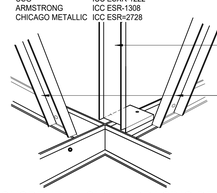


NOTE: BRACE POINTS OCCUR 6'-0" (MAX.) FROM PERIMETER AND 12'-0" (MAX.) EACH WAY.
ALL SEISMIC RESTRAINT BRACING SHALL COMPLY WITH ASTM E 580 & ASCE 7 WHERE APPLICABLE.
APPROVED ICC-ES MANUFACTURER'S AMD TESTS:

USG	ICC ESXR-1222
ARMSTRONG	ICC ESR-1308
CHICAGO METALLIC	ICC ESR=2728



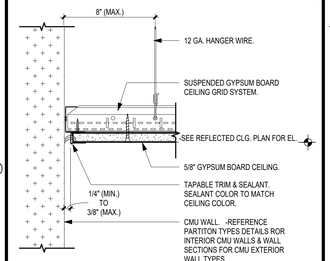
SUSPENDED CLOUD BRACING DETAIL

E1 TYPICAL SEISMIC RESTRAINT DETAIL FOR ACOUSTICAL LAY-IN CEILINGS FOR ZONES D, E AND F
NTS

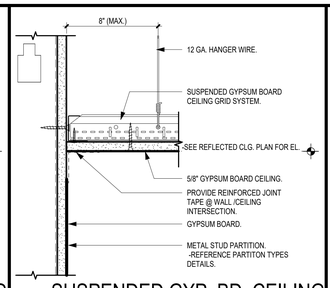
SEISMIC BRACING NOTES:

1. INSTALLATION MUST CONFORM TO ASTM C636, ASCE 7 AND CISCA RECOMMENDATIONS OR MUST COMPLY WITH ICC EVALUATION REPORT FOR SYSTEM BEING USED:
   ICC-ESR 1222 (USG)
   ICC-ESR 1308 (ARMSTRONG)
   ICC-ESR 2631 (CHICAGO METALLIC)

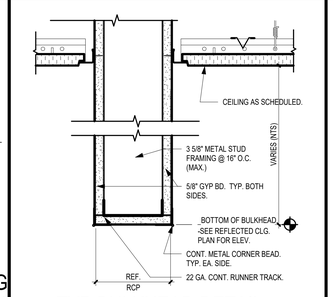
   COMPONENTS MAY NOT BE COMBINED WITH OTHER MANUFACTURER'S AND ONE MANUFACTURER MUST BE USED FOR THE ENTIRE PROJECT.
2. MINIMUM 7/8" WALL MOLDING. GRID **SHALL NOT BE ATTACHED** TO THE WALL MOLDING. 3/8" CLEARANCE SHALL BE PROVIDED ON ALL SIDES BETWEEN THE GRID AND THE WALL.
3. ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING.
4. INSTALL HEAVY DUTY GRID SYSTEM WITH A MINIMUM 180 LBS CONNECTION STRENGTH UNLESS NOTED OTHERWISE.
5. WHERE WIRE MUST BEAR AGAINST PIPES AND DUCTS, APPLY TAPE TO PIPES AND DUCTS.
6. FOR CEILING AREAS GREATER THAN 2,500 S.F., PROVIDE SEISMIC SEPARATION JOINTS IN ACCORDANCE WITH ICS ESR SYSTEM REQUIREMENTS. -REFERENCE REFLECTED CEILING PLAN FOR JOINT LOCATIONS.
7. ALL LIGHT FIXTURES SHALL BE MECHANICALLY ATTACHED TO GRID PER NEC 410-16.
8. **RIGID LAY-IN OR CAN LIGHT FIXTURE SUPPORT NOTES**:
   A. FIXTURES WEIGHING LESS THAN 10 LBS. SHALL BE ATTACHED WITH (1) ONE 12 GA. (MINIMUM) WIRE TO STRUCTURE. NOTE WIRE MAY BE SLACK.
   B. FIXTURES WEIGHING BETWEEN 11-56 LBS. SHALL BE ATTACHED WITH (2) TWO 12 GA. (MINIMUM) WIRES FROM THE HOUSING TO THE STRUCTURE. WIRE MAY BE SLACK.
   C. FIXTURES WEIGHING OVER 56 LBS. SHALL BE SUPPORTED DIRECTLY TO THE STRUCTURE BY APPROVED HANGARS.
   D. PENDANT HUNG FIXTURES SHALL BE DIRECTLY SUPPORTED BY THE STRUCTURE ABOVE WITH 9 GA. WIRE OR APPROVED ALTERNATE.
9. **MECHANICAL AIR TERMINAL SUPPORT NOTES**:
   A. DEVICES WEIGHING LESS THAN 20 LBS. SHALL BE POSITIVELY ATTACHED TO THE GRID.
   B. DEVICES WEIGHING BETWEEN 11-56 LBS. SHALL BE POSITIVELY ATTACHED TO THE GRID AND CONNECTED WITH (2) TWO 12 GA. (MINIMUM) WIRES TO THE STRUCTURE. WIRES MAY BE SLACK.
   C. DEVICES WEIGHING OVER 56 LBS. SHALL BE SUPPORTED DIRECTLY TO THE STRUCTURE BY APPROVED HANGARS.
10. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 1" (max.) ANNULAR DIAMETER OPENING.
11. CABLE TRAYS AND ELECTRICAL CONDUIT MUST BE INDEPENDENTLY SUPPORTED AND BRACED.



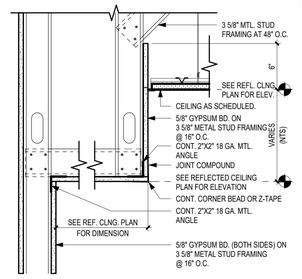
D1 SUSPENDED GYP. BD. CEILING DETAIL @ CMU PARTITION
3" = 1'-0"



D2 SUSPENDED GYP. BD. CEILING DETAIL @ GYP. BD. PARTITION
3" = 1'-0"

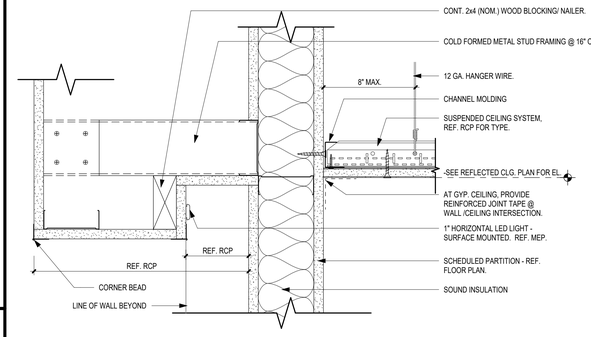


D3 TYP.BULKHEAD DETAIL
3" = 1'-0"

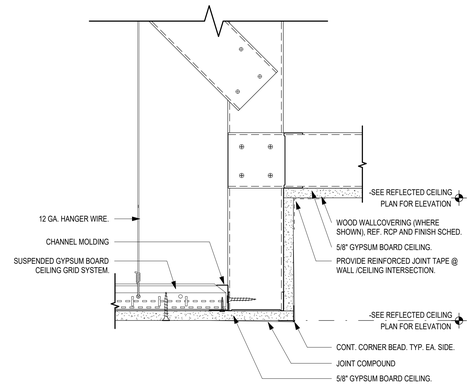


D5 DROPPED SOFFIT DETAIL
1 1/2" = 1'-0"

09.29.00.03 DROPPED SOFFIT AT PARTITION



E6 LIGHT COVE DETAIL
3" = 1'-0"



D6 TRAY CEILING DETAIL
3" = 1'-0"

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Proposed:
Mehlville Fire House No5
11020 MUELLER ROAD

No.	Date	Revision

REFLECTED CEILING PLAN & DETAILS

Project No. 22135
Sheet No. A112
Date 03/15/2024

SCALE: 1" = 1'-0" | SCALE: 1 1/2" = 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"
3/21/2024 2:13:52 PM
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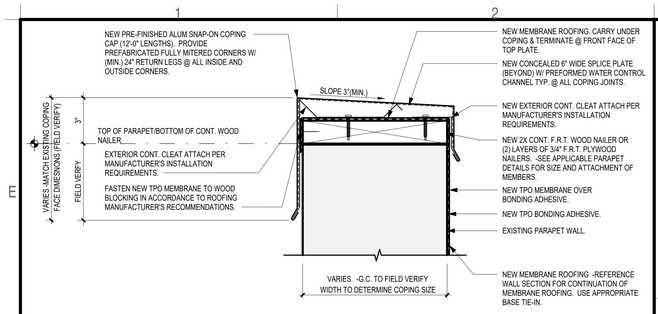
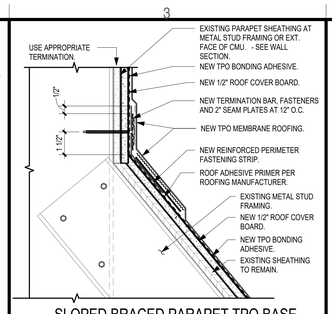
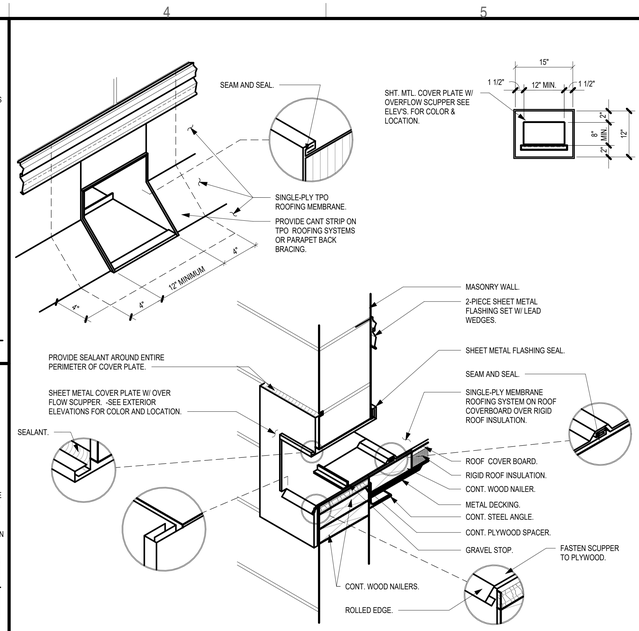


E1 T.P.O. ROOFING TERM. DET. AT TOP OF PARAPET WALL
3" = 1'-0"
07.53.00.01A RETRO TPO PARAPET TERM DET_2W X 1H



E3 SLOPED BRACED PARAPET TPO BASE TIE-IN PERIMETER DETAIL
3" = 1'-0"
07.53.00.02A TPO_RETRO SLOPED BRACED PARAPET BASE TIE-IN_1W X 1H



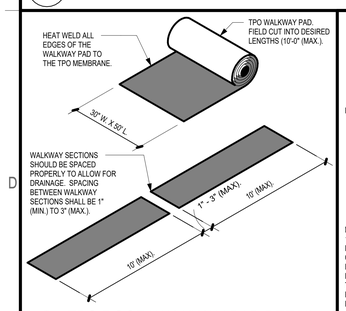
D4 TYPICAL METAL SCUPPER BOX AND DOWNSPOUT DETAIL
NTS SCALE VARIES
07 62 00.01_SCUPPER BOX_DET 2W X 2H

DEMO ROOF PLAN KEYED NOTES

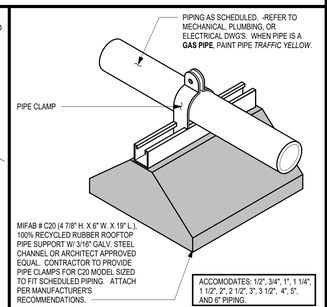
MARK	DESCRIPTION
1	REMOVE EXISTING RAISED CURB AND ROOFING.
2	DASHED LINE DENOTES EXISTING RTU TO BE REMOVED, EXISTING CURB TO REMAIN. -SEE ROOF MECHANICAL DEMO PLAN FOR ADDITIONAL INFORMATION.
3	DASHED LINE DENOTES EXISTING ROOF HATCH TO BE REMOVED
4	CUT AND REMOVE EXISTING ROOF, ROOF INSULATION, AND ROOF DECKING AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW ROOF HATCH. -SEE APPLICABLE PLANS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION
6	CUT OPENING IN PARAPET BACK BRACING AND PARAPET AS REQUIRED TO INSTALL 8" H. X 12" W THRU WALL OVERFLOW SCUPPER.
7	EXISITNG CU-01 TO REMAIN. REMOVE EXISTING ROOF FLASHING.
8	REMOVE EXISTING STRAINER BASKET TO INSTALL NEW ROOFING MEMBRANE. AND SALVAGE FOR RE-INSTALLATION.
9	REMOVE EXISTING MEMBRANE ROOFING ON ENTIRE ROOF, PARAPETS, CURBING AND FLASHINGS.
10	DEMOLISH EXISTING OA HOOD & CURB.
11	VERIFY EXISTING CURB SIXE IS ADEQUATE FOR NEW EXHAUST INSTALLATIO. IF NOT, CHATRACTOR SHALL REMOVE EXISTING EQUIPMENT AND CURB.
12	REMOVE EXISTING COPING.
13	EXISTING OUTSIDE AIR INTAKE TO REMAIN.
14	DASHED LINE DENOTE EXISTING ROOF CRICKETS TO BE REMOVED.

KEYED NOTES ROOF PLAN

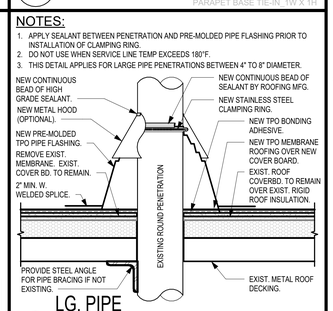
MARK	DESCRIPTION
1	EXISTING SKYLIGHT TO REMAIN. RE-FLASH NEW ROOFING AS REQUIRED.
2	NEW RTU AND ADAPTER CURB/W/ SEISMIC RAILS ON EXISTING CURB. -SEE ROOF MECHANICAL NEW WORK PLAN FOR ADDITIONAL INFORMATION.
3	EXISTING VENT THRU ROOF TO REMAIN. RE-FLASH VENT. -SEE DETAIL D3/A12
4	NEW 36" X 36" E-50-TB ROOF HATCH BY BILCO OR ARCHITECT APPROVED EQUAL.
5	FILL FASTNER PENETRATIONS WITH SEALANT TO MATCH BRICK COLOR AT ALL LOCATIONS WHERE ANTENNA SUPPORT BRACKETS HAVE BEEN REMOVED.
6	8" H X 12" W THRU PARAPET METAL ROOF SCUPPER. BOTTOM OF SCUPPER TO BE 2" ABOVE THE NEAREST PRIMARY DRAIN INLETS -REFERENCE DETAIL D4/A9 FOR ADDITIONAL INFORMATION.
7	EXISITNG CU-01 TO REMAIN. RE-FLASH CURB AS REQUIRED.
8	NEW ROOF INFILL PROVIDE NEW FULLY-ADHERED TPO MEMBRANE OVER 1/2" ROOF COVER BOARD ON COVERBOARD TO MATCH EXISTING ROOF, ON RIGID ROOF INSULATION TO MATCH EXISTING BUILDING OVER 1 1/2" METAL ROOF DECKING. -SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
9	RE-INSTALL EXISTING STRAINER BASKET UPON COMPLETION OF ROOFING MEMBRANE INSTALLATION.
10	NEW FULLY ADHERED TPO MEMBRANE ROOFING OVER NEW 1/2" ROOF COVER BOARD OVER EXISTING ROOF COVER BOARD. INSTALL PER MANUFACTURER'S STANDARD DETAILS/INSTALLATION INSTRUCTIONS.
11	TPO ROOF WALKWAY PAD TYP. -SEE APPLICABLE DETAIL.
12	EXISITNG ROOF SCUTTLE/HATCH TO REMAIN.
13	NEW INTAKE HOOD & CURB. -SEE MECHANICAL DWG'S. FOR ADDITIONAL INFORMATION.
14	DRYER VENT. -SEE MECH. DWG'S.
15	GAS PIPING. -SEE MECH. DWG'S.
16	NEW EXHAUST FAN IN EXISITNG OPENING. PROVIDE NEW CURB IF EXISTING IS NOT ADEQUATE FOR NEW EQUIPMENT.
17	EXISTING TAPERED RIGID ROOF INSULATION CRICKET TO REMAIN.
18	NEW PREFABRICATED/PREFINISHED METAL COPING TO MATCH EXISTING COPING DIMENSIONS AND COLORS AS FIELD VERIFIED BY THE GENERAL CONTRACTOR.
19	NEW REFRIGERANT PIPING COORDINATE PIPING WITH EXISTING SOLOR PANELS. -SEE MECH DWG'S.
20	NEW TAPERED RIGID ROOF INSULATION CRICKET.
21	NEW 5 1/4" H. PREFABRICATED/ PREFINISHED PERMA-TITE SYSTEM 200 SNAP-ON FASCIA BY METAL ERA OR ARCHITECT APPROVED EQUAL. ARCHITECT TO SELECT COLORS FROM MANUFACTURERS FULL LINE OF COLORS.
22	NEW CURB AND DUCTWORK. -SEE MECH. DWG'S.



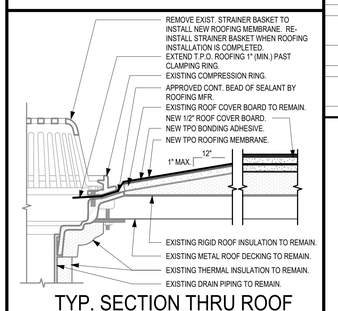
D1 TPO ROOF WALKWAY PAD DETAIL
N.T.S.
07.53.00.03 TPO ROOF WALKWAY PAD DET 1W X 1H



D2 RUBBER ROOF PIPE SUPPORT DET.
N.T.S.
07_RUBBER ROOF PIPE SUPPORT DETAIL_1W X 1H



D3 LG. PIPE THRU ROOF PEN. RETROFIT DET.
N.T.S.
07.53.00.TPO_ RETRO LG PIPE PEN DETAIL TPO-COVER BD_1W X 1H

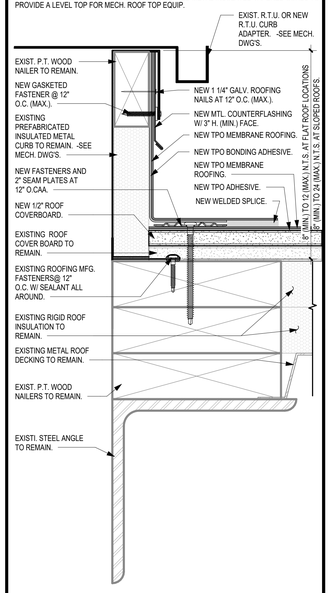


E6 TYP. SECTION THRU ROOF DRAIN (TPO MEMB. ROOF)
3" = 1'-0"
22.10.06_ROOF DRAIN RETRO_TPO_TYP W COVER BD_1WX1H

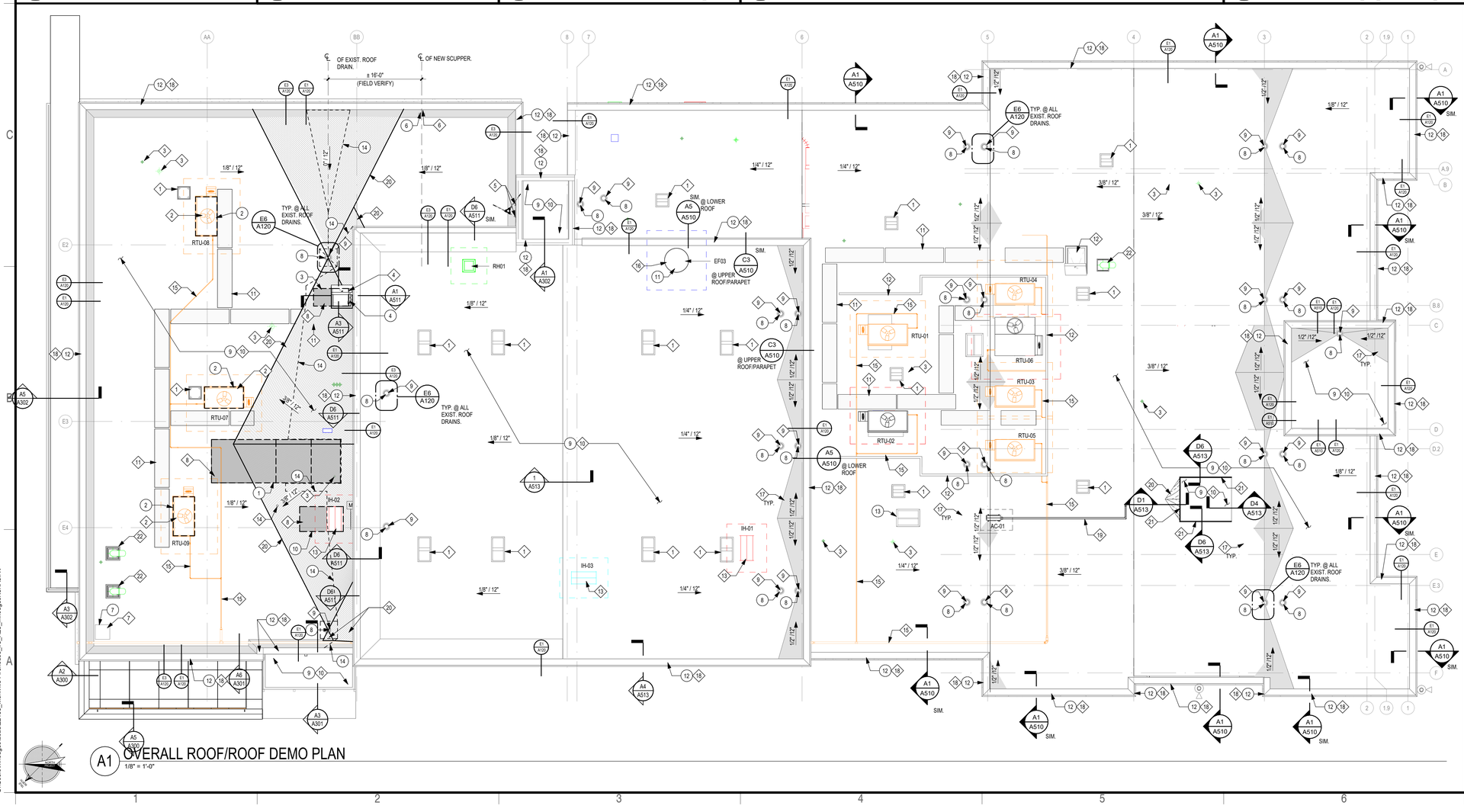
ROOF PLAN GENERAL NOTES

1. REMOVE EXISTING MEMBANE ROOFING TO EXISTING COVERBOARD BASE (EXISTING COVERBOARD BASE TO REMAIN). ADD NEW 1/2" ROOF COVERBARD AND FULLY ADHERED TPO MEMBRANE ROOFING TO BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S STANDARD DETAILS/INSTALLATION INSTRUCTIONS.
2. WHERE NEW RIGID ROOF BOARD INSULATION IS REQUIRED, ALL NEW RIGID ROOF INSULATION SHALL BE INSTALLED WITH STAGGERED JOINTS BETWEEN LAYERS.
3. REMOVE ALL EXISTI. METAL COPINGS AND REPLACE W/ NEW MATCHING EXISTING COPING DIMENSIONS AND COLORS AS FIELD VERIFIED BY THE GENERAL CONTRACTOR. ALL NEW METAL COPINGS / FASCIAS SHALL BE PRE-FINISHED METAL. INTERSECTION SHAPES SHALL BE MITERED, WELDED AND FINISHED TO HAVE A MONOLITHIC APPEARANCE
4. ALL NEW ROOF FLASHINGS TO BE INSTALLED ACCORDING TO MFR'S RECOMMENDATIONS. PROVIDE MATERIAL SAMPLES TO ARCHITECT FOR COLOR APPROVAL.
5. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PIPING, CURBS, VENTS, DUCTS, FANS, AND OTHER ITEMS ON THE ROOF SURFACE.
6. REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN SIZES.
7. OVERFLOW ROOF DRAIN INLETS SHALL BE 2" ABOVE THE PRIMARY DRAIN INLETS.
8. ALL ROOF SLOPES INDICATED ARE BASED UPON EXISTING DOCUMENTATION.
9. GENERAL CONTRACTOR TO FIELD VERIFY ALL METAL COPING DIMENSIONS AND COLORS AND RECORD DATA FOR COORDINATION OF NEW PREFAB METAL COPING DIMENSIONS.
10. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION ITEMS NOT INDICATED ON ARCHITECTURAL ROOF PLAN.
11. ROOFING CONTRACTOR TO VERIFY ALL ROOF CRICKETS AND ADD ADDITIONAL IF NOT EXISTING AT ALL THRU NEW AND EXISITNG PENTETRATIONS, CURBS, ETC. IF NECESSARY TO PREVENT PONDING AND OBSTRUCTION OF THE DRAINAGE PATH.
12. TEMPORARILY DISCONNECT AND REMOVE ALL ROOFTOP SOLAR PANEL ARRAYS FOR NEW ROOF WORK. UPON COMPLETION OF RE-ROOFING RE-INSTALL SOLAR PANEL ARRAYS BACK TO EXISTING LOCATION AND RECONNECT TO POWER SYSTEM. -SEE MEP DRAWG'S FOR ADDITONAL INFORMATION.
13. CONTRACTOR TO VERIFY ROOF COVERBOARD IS EXISTING. NOTIFY ARCHITECT IF NOT

NOTE: ON SLOPED ROOFS, PROVIDE PREFABRICATED METAL INSULATED TAPERED CURBS TO PROVIDE A LEVEL TOP FOR MECH. ROOF TOP EQUIP.



A7 RETROFIT TPO ROOF FLASHING DETAIL @ PREFAB. ROOF CURB
N.T.S.
07.53.00 TPO ROOF CURB DET 1W X 2H



A1 OVERALL ROOF/ROOF DEMO PLAN
1/8" = 1'-0"

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Proposed:
Mehlville Fire House No. 5
11020 MUELLER ROAD

No.	Date	Revision

ROOF/ROOF DEMO PLAN

Project No. 22135
Sheet No. A120
Date 03/15/2024

3/21/2024 2:14:14 PM
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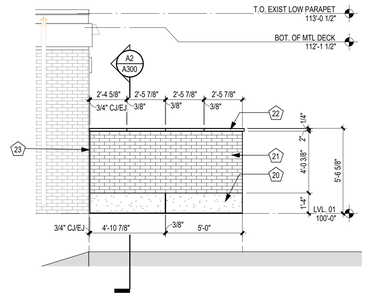
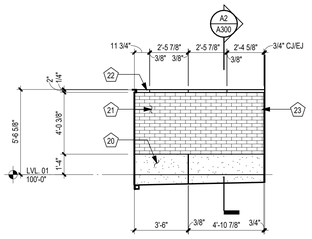
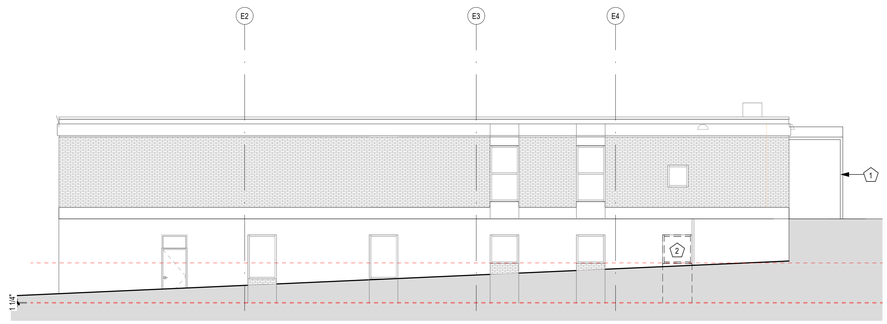


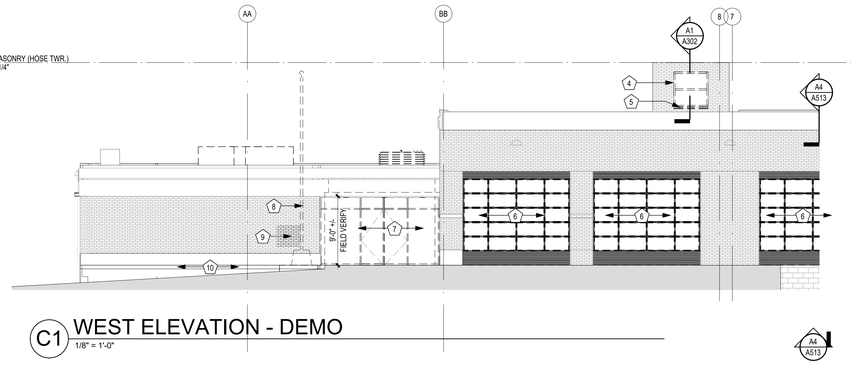
E1 EL -EXT. FACE OF NORTH SCREENWALL
1/4" = 1'-0"



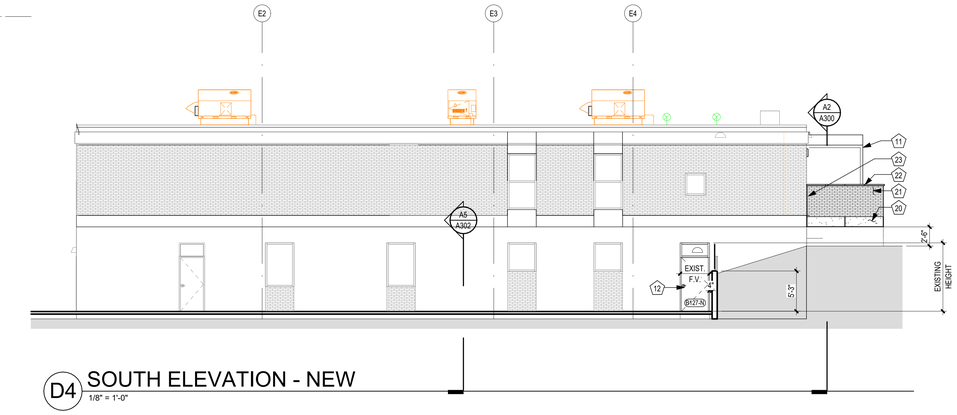
E2 EL -INT. FACE OF NORTH SCREENWALL
1/4" = 1'-0"



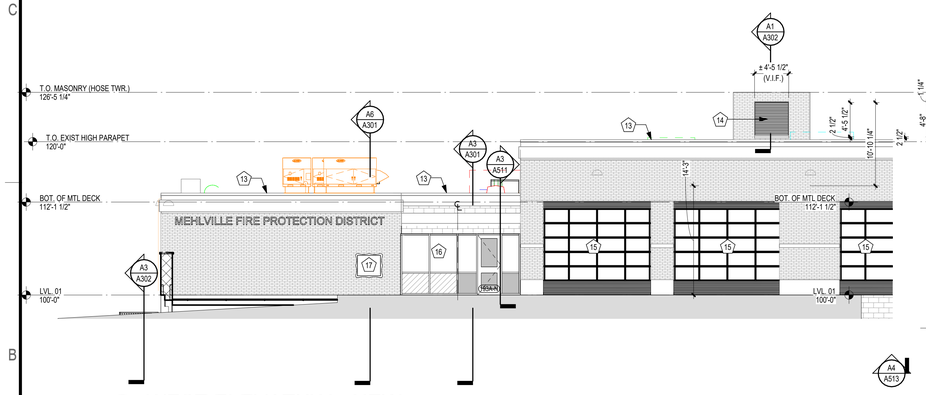
E4 SOUTH ELEVATION - DEMO
1/8" = 1'-0"



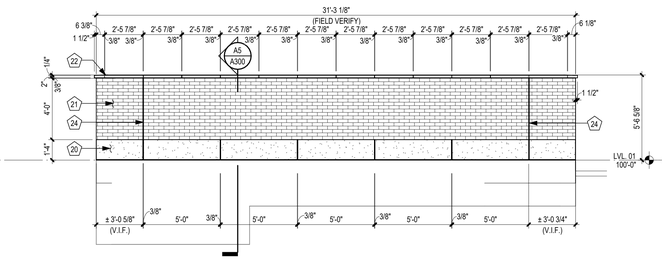
C1 WEST ELEVATION - DEMO
1/8" = 1'-0"



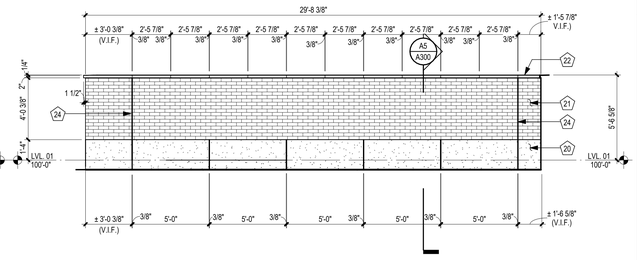
D4 SOUTH ELEVATION - NEW
1/8" = 1'-0"



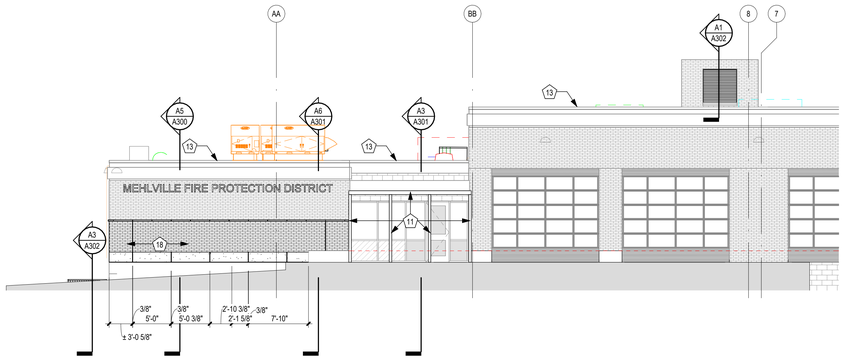
B1 WEST ELEVATION - NEW
1/8" = 1'-0"



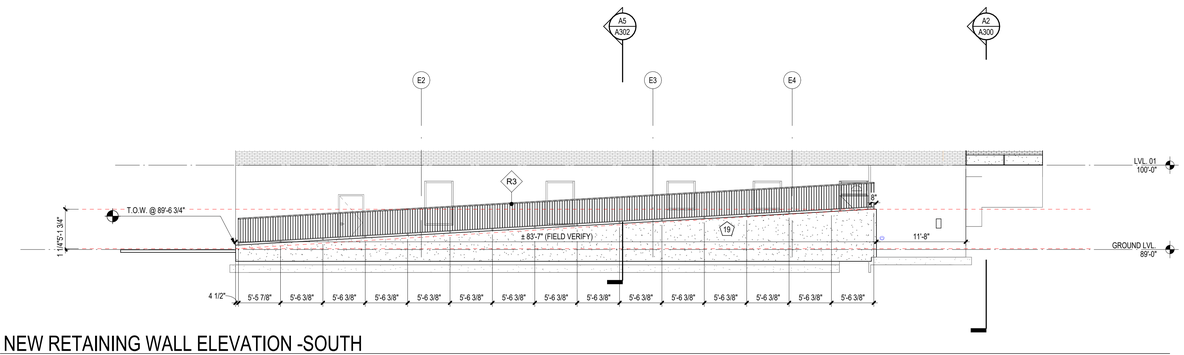
B4 EL -EXT. FACE OF WEST SCREENWALL
1/4" = 1'-0"



B6 EL -INT. FACE OF WEST SCREENWALL
1/4" = 1'-0"



A1 WEST ELEVATION - RETAINING WALL
1/8" = 1'-0"



A4 NEW RETAINING WALL ELEVATION -SOUTH
1/8" = 1'-0"

EXTERIOR MATERIAL LEGEND

BRICK:
TO MATCH EXISTING

CONCRETE PANEL:
TO MATCH EXISTING

EXTERIOR KEYED NOTES

1	EXISTING METAL STRUCTURE AND CANOPY TO REMAIN - PREPARE FOR REFINISH.
2	REMOVE EXISTING WINDOW AND FRAME IN ENTIRETY. PREPARE TO RECIEVE NEW WORK.
3	REMOVE EXISTING OVER HEAD DOORS - PREPARE TO RECEIVE NEW DOORS.
4	REMOVE EXISTING ALUMINUM WINDOW.
5	REMOVE EXISTING ALUM. SILL.
6	REMOVE EXISTING OVER HEAD DOORS - PREPARE TO RECEIVE NEW DOORS.
7	REMOVE EXISTING STOREFRONT - PREPARE TO RECEIVE NEW STOREFRONT.
8	REMOVE EXISTING FLAG POLE AND BASE.
9	REMOVE EXISTING EXTERIOR WALL - PREPARE TO RECEIVE BABY BOX. REF. STRUCTURAL.
10	REMOVE EXISTING CURB - PREPARE TO RECEIVE NEW CONCRETE SLAB - REF. STRUCTURAL AND CIVIL.
11	PAINT EXISTING METAL STRUCTURE AND CANOPY - RER. FINISH PLAN.
12	NEW HOLLOW METAL DOOR, FRAME AND TRANSOM WINDOW. PAINT. REF. DOOR SCHEDULE.
13	REMOVE EXISTING METAL COPING & REPLACE W/ NEW PREFABRICATED METAL COPING. COLOR AND SIZE TO MATCH EXISTING.
14	PRE-FINISHED MECH. LOUVER - REF. MECH. DWGS.
15	NEW OVERHEAD APPARATUS BAY DOORS - REF. SPECIFICATIONS.
16	NEW EXTERIOR STOREFRONT, MATCH EXISTING - REF. SPECIFICATIONS.
17	NEW BABY BOX - REF. DETAILS AND STRUCTURAL.
18	NEW SCREEN WALL - REF. DETAILS AND STRUCTURAL.
19	NEW RETAINING WALL AND RAIL - REF. DETAILS AND STRUCTURAL.
20	NEW CONCRETE PANEL, COLOR & TEXTURE TO MATCH EXISTING BUILDING. -SEE APPLICABLE WALL SECTION AND DETAILS FOR ADDITIONAL INFORMATION.
21	NEW MODULAR BRICK, BOND, COURSING & MORTAR TO MATCH EXISTING BUILDING.
22	NEW SP-1 CAST STONE COPING. -SEE APPLICABLE STONE BANDING PROFILES.
23	3/4" EJ/CJ W/ SEALANT & BACKER ROD BOTH SIDES & TOP. SEALANT COLOR TO MATCH MORTAR COLOR.
24	3/8" EJ/CJ W/ SEALANT & BACKER ROD BOTH SIDES & TOP. SEALANT COLOR TO MATCH MORTAR COLOR.
25	
26	
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33	

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ARCHITECT
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Proposed:
Mehlville Fire House No5
11020 MUELLER ROAD

No.	Date	Revision

EXTERIOR ELEVATIONS

Project No.
22135

Sheet No.
A200

Date
03/15/2024

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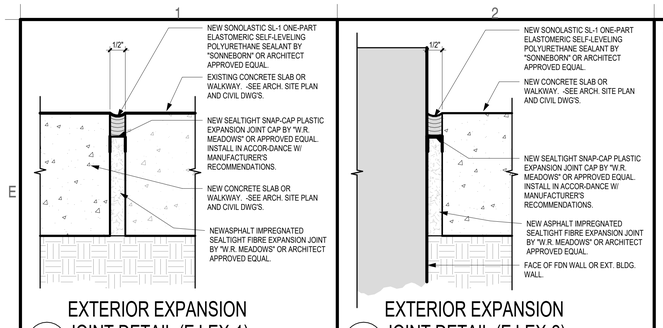
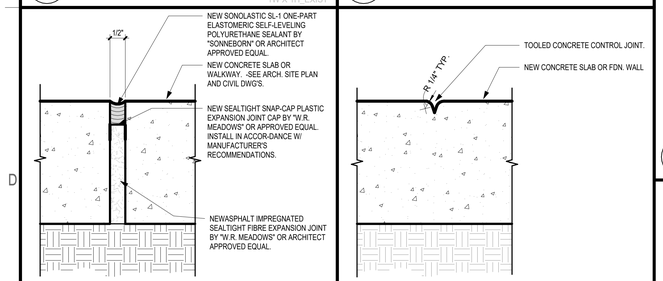
SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"



E1 EXTERIOR EXPANSION JOINT DETAIL (EJ-EX-1)
HALF SCALE
03.15.00.01 SM_DTL CONC .5 EJ 1W X 1H_EXIST

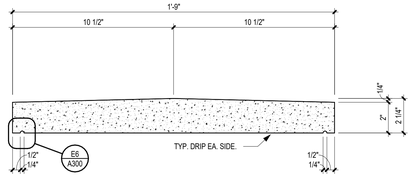
E2 EXTERIOR EXPANSION JOINT DETAIL (EJ-EX-2)
HALF SCALE
03.15.00.04 SM_DTL CONC .5 EJ_1W X 1H



D1 EXTERIOR EXPANSION JOINT DETAIL (EJ-EX-1)
HALF SCALE
03.15.00.01 SM_DTL CONC .5 EJ_1W X 1H

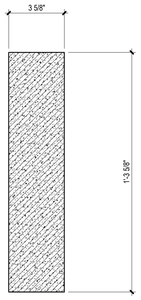
D2 TYPICAL EXTERIOR TOOLED CONTROL JOINT DETAIL (CJ-EX-1)
HALF SCALE
03.15.00.03 SM_DTL CONC CJ_1WX1H

STONE MFR TO COORDINATE STONE ANCHORS AND METHODS WITH MASON.

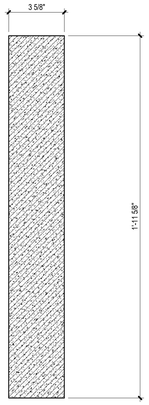


SP-1
CAST STONE COPING.

CAST CONCRETE PANEL NOTES:
1. COLOR AND TEXTURE TO MATCH EXISTING WALL. FABRICATOR TO PROVIDE SAMPLES FOR ARCHITECT'S APPROVAL.
2. REFERENCE EXTERIOR ELEVATION FOR PANEL WIDTHS.
3. STONE MFR TO COORDINATE STONE ANCHORS AND METHODS WITH MASON.

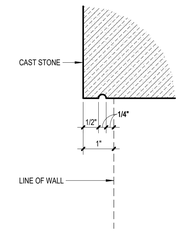


CP-1
CAST CONCRETE PANEL

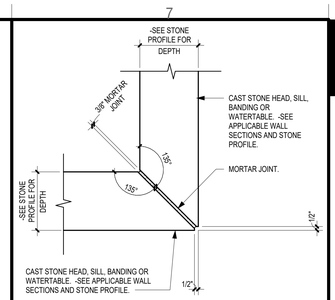


CP-2
CAST CONCRETE PANEL

E3 STONE BANDING AND CAST CONCRETE PANEL PROFILES
3" = 1'-0"
04.72.00_TYPICAL STONE BANDING PROFILES_4



E6 TYPICAL CAST STONE DRIP
HALF SCALE
04.72.00 TYP_CAST STONE DRIP



E7 90° CAST STONE QUIRK MITERED CORNER JOINT PLAN DETAIL
3" = 1'-0"
04.72.00 CASTSTONE QUIRK MIT JT CORNER DET

C1 ENLARGED SCREENWALL COPING DETAIL
3" = 1'-0"

A2 SECTION THRU MASONRY SCREEN WALL -NORTH
3/4" = 1'-0"

A5 SECTION THRU MASONRY SCREEN WALL -WEST
3/4" = 1'-0"

STATE OF MISSOURI
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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

WALL SECTIONS

Project No.
22135

Sheet No.
A300

Date
03/15/2024

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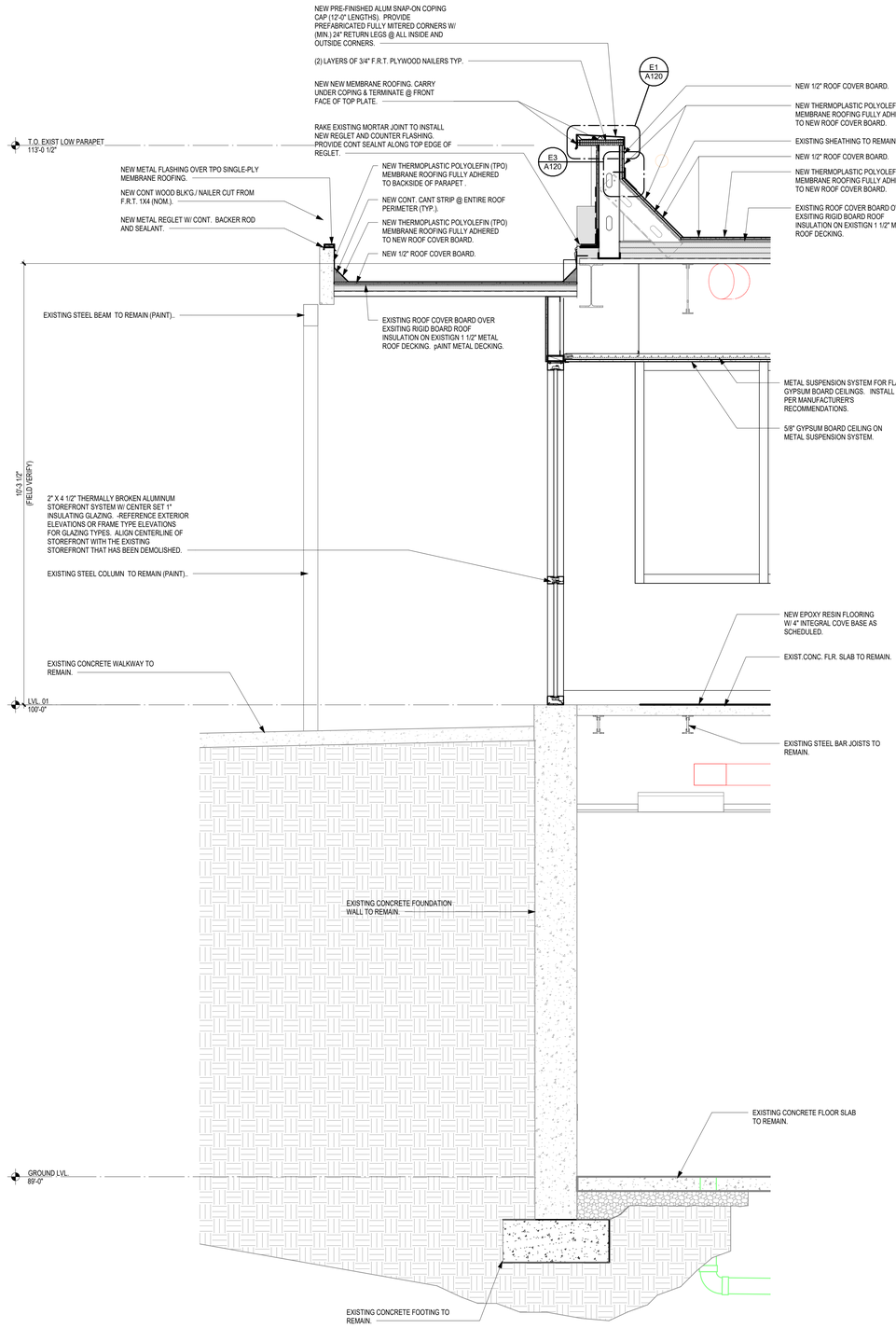
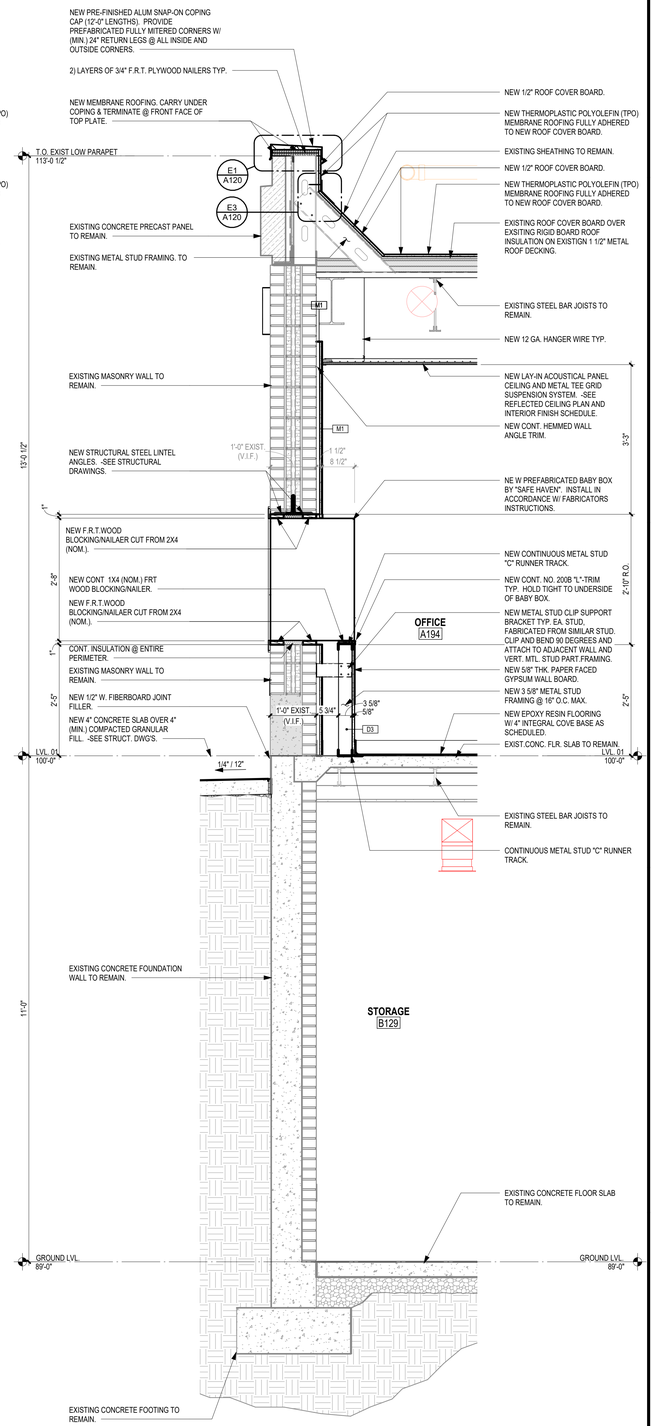


A3 SECTION THRU NEW STOREFRONT -WEST
3/4" = 1'-0"



A6 WALL SECTION @ BABY DROP BOX
3/4" = 1'-0"

STATE OF MISSOURI
ROY A. MARSDEN
NUMBER A-6661
ARCHITECT
03/15/24
Roy A. Marsden
MO Architect License No: A-6661
Expires: 12/31/24

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

Revision | Date | No.

WALL SECTIONS

Project No. 22135
Sheet No. A301
Date 03/15/2024

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

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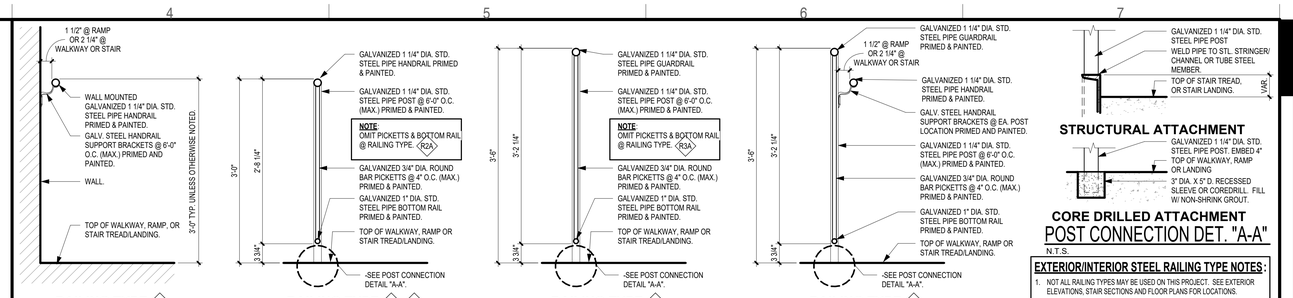
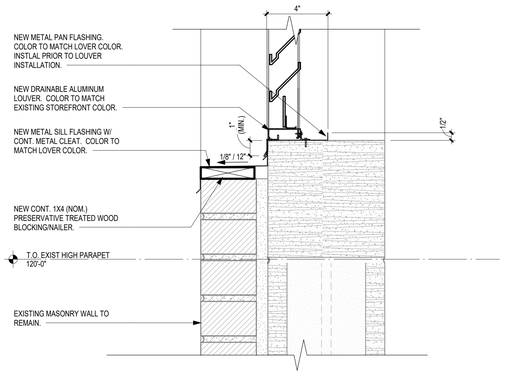
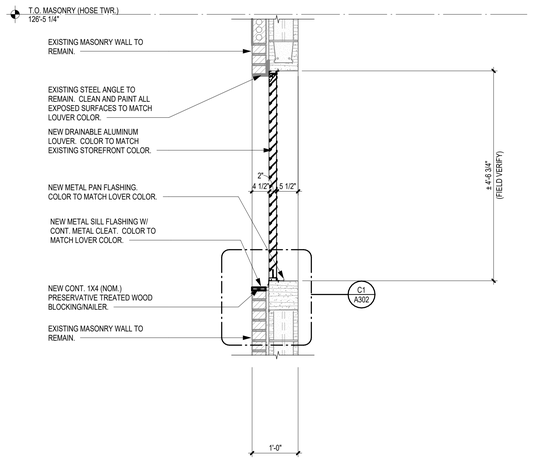


E4 TYPICAL PIPE RAILING TYPES DETAILS
1" = 1'-0"

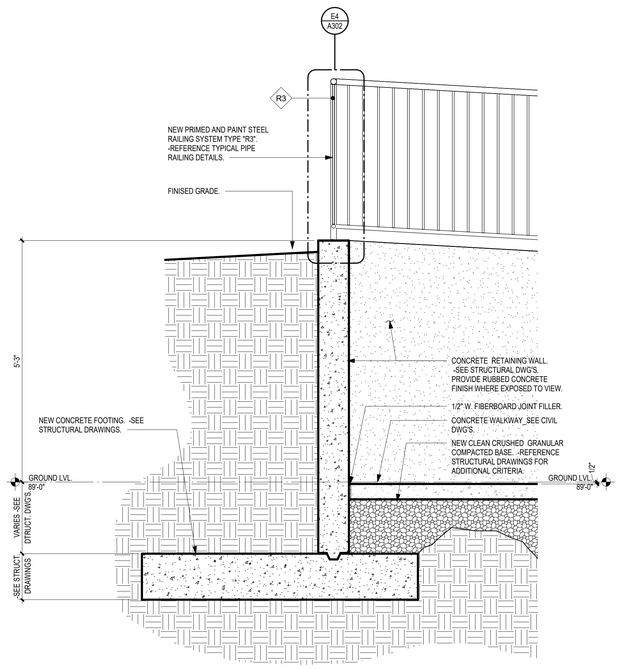
05-51-00.01_TYP. PIPE RAILING TYPES DETAILS_4WX1H



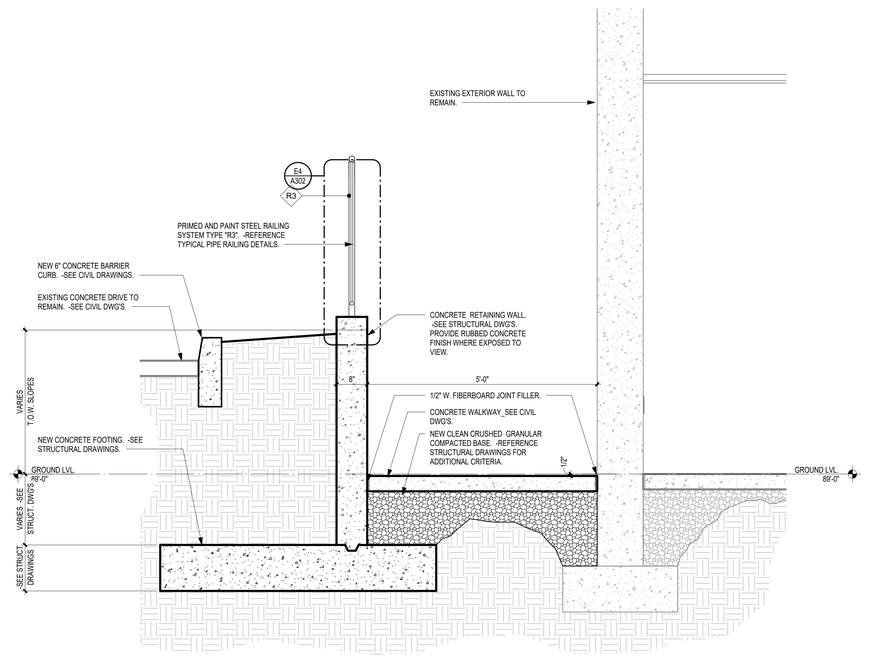
C1 ENLARGED LOUVER SILL DETAIL
3" = 1'-0"



A1 SECTION THRU NEW LOUVER AT HOSE TOWER - WEST WALL
3/4" = 1'-0"



A3 SECTION THRU RETAINING WALL -WEST
3/4" = 1'-0"



A5 SECTION THRU SLOPING RETAINING WALL -NORTH
3/4" = 1'-0"

STATE OF MISSOURI
ROY A. MANDAL
NUMBER A-6661
ARCHITECT
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Roy A. Mandal
MO Architect License No: A-6661
Expires: 12/31/24

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

RET. WALL SECT/ HANDRAIL DET.

Project No. 22135
Sheet No. A302
Date 03/15/2024

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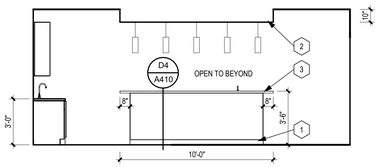
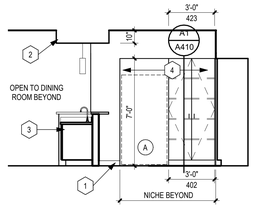
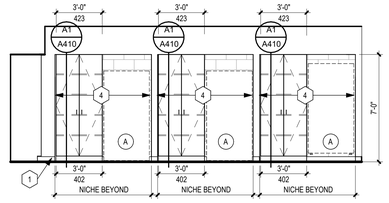


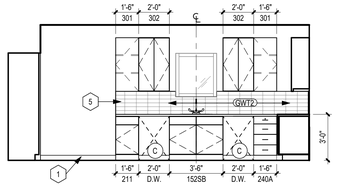
E1 KITCHEN A192 - NORTH ISLAND ELEVATION
1/4" = 1'-0"



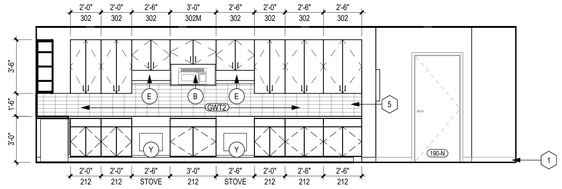
E2 KITCHEN A192 - EAST ELEVATION
1/4" = 1'-0"



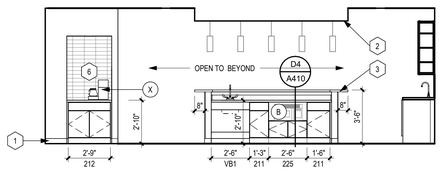
E3 KITCHEN A192 - SOUTH ELEVATION
1/4" = 1'-0"



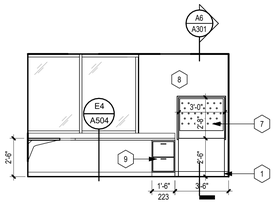
D1 KITCHEN A192 - WEST ELEVATION
1/4" = 1'-0"



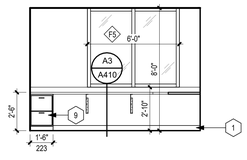
D2 KITCHEN A192 - NORTH ELEVATION
1/4" = 1'-0"



C1 KITCHEN A192 - SOUTH ISLAND ELEVATION
1/4" = 1'-0"



C2 OFFICE A193 - WEST
1/4" = 1'-0"



C3 OFFICE A193 - SOUTH
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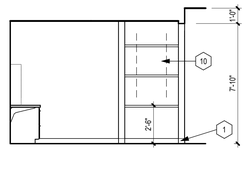
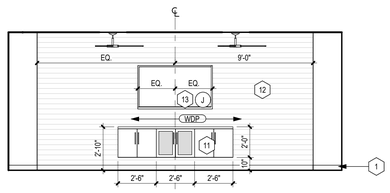
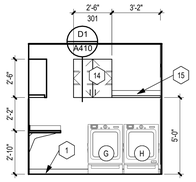


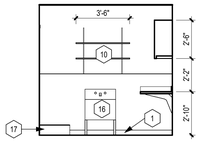
C4 OFFICE A193 - NORTH
1/4" = 1'-0"



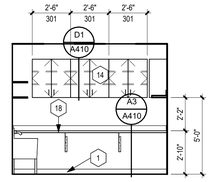
B1 DAY ROOM A190 - NORTH ELEVATION
1/4" = 1'-0"



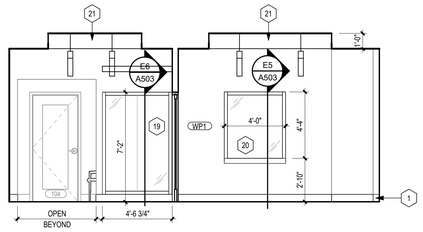
B2 LAUNDRY ROOM A189 - WEST
1/4" = 1'-0"



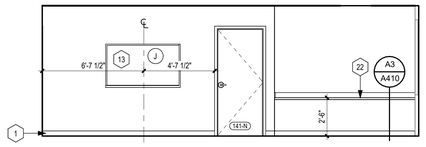
B3 LAUNDRY ROOM A189 - EAST
1/4" = 1'-0"



B4 LAUNDRY ROOM A189 - SOUTH
1/4" = 1'-0"



A1 ENTRY A100 - NORTH ELEVATION
1/4" = 1'-0"



A2 DC OFFICE A142 - SOUTH
1/4" = 1'-0"

EQUIPMENT SCHEDULE

		PROVIDED OWNER	PROVIDED G.C.	INSTALLED OWNER	INSTALLED G.C.
A	REFRIGERATOR - KitchenAid Model # KBFF305ESS INCLUDE WATER LINE HOOKUP	X			X
B	MICROWAVE	X		X	
C	DISHWASHER - KitchenAid Model # KDTE334GPS	X			X
D	GAS COOKTOP - KitchenAid Model # KCGS556ESS	X			X
E	STAINLESS STEEL HOOD		X		X
F	DOUBLE STACKED ELECTRIC OVEN	X			X
G	RESIDENTIAL WASHER	X			X
H	RESIDENTIAL DRYER	X			X
J	WALL MOUNTED TV/MONITOR W/WALL BRACKET	X			X
K	TWIN BED	X		X	
L	MISC. FURNITURE	X		X	
M	PAPER TOWEL DISPENSER	X			X
N	ICE MAKER	X			X
P	EXTRACTOR - Dexter Model # T-400	X			X
Q	AIR COMPRESSOR - Ingersoll Rand Model # 2340N3		X		X
R	GEAR LOCKERS		X		X
S	STAINLESS STEEL SINK		X		X
T	VENDING MACHINE	X		X	
U	TRAINING MANHOLE		X		X
V	EXTERIOR BUILDING SIGNAGE	X		X	
W	EXTERIOR MONUMENT SIGNAGE & READER BOARD	X		X	
X	COFFEE MAKER WITH WATER LINE	X		X	
Y	ELECTRIC STOVE / OVEN	X			X
Z	S.S. KITCHEN HOOD W/ FIRE SUPPRESSION SYS.		X		X
A1	UNDERCOUNTER REFRIGERATOR	X		X	
A2	DOUBLE ROBE HOOK BOBRICK B-672		X		X
A3	SCBA EQUIPMENT	X		X	
AV-1	55" / 82" MONITOR W/ BRACKETS - REF. ELEC	X		X	
AV-2	PROJECTION SCREEN - REF. ELEC.	X		X	
AV-3	CEILING MOUNTED PROJECTOR - REF. ELEC.	X		X	
AV-4	WALL MOUNTED SPEAKER - REF. ELEC.	X		X	
AV-5	CAMERA - REF. ELEC.	X		X	

INTERIOR ELEVATION KEYED NOTES

1	WALL BASE, AS SCHEDULED.
2	KITCHEN GYP. BOARD SOFFIT, PAINT HIGHLIGHT COLOR AS INDICATED. INSTALL DECORATIVE PENDANT LIGHT FIXTURES, REF. MEP.
3	KITCHEN: QUARTZ COUNTERTOPS WITH WOOD CABINETRY. INCLUDE FILLERS AS REQ'D. SEE FINISH PLAN AND SCHEDULE FOR ADD'L INFO.
4	RECESSED NICHE FOR FRIDGE AND WOOD PANTRY STORAGE CABINET. REF. FLOOR PLANS FOR DIMENSIONS AND DETAILS FOR PANTRY DIMENSIONS.
5	DECORATIVE WALL TILE, REF. FINISH PLAN. ALIGN EGDE OF TILE WITH EDGE OF COUNTERTOP. USE REQUIRED TRANSITION STRIP AT EXPOSED PERIMETER EDGES. INSTALL TILE SMOOTH, ALIGN VERTICAL GROUT JOINTS.
6	COFFEE STATION: DECORATIVE WALL TILE, REF. FINISH PLAN. INSTALL TILE SMOOTH, ALIGN VERTICAL GROUT JOINTS. WOOD BASE CABINET, REF. FINISH PLAN FOR ADD'L INFO. PROVIDE POWER/ WATER LINE FOR COFFEE. REF. MEP.
7	BABY BOX - REF. DETAILS FOR ADDITIONAL INFORMATION.
8	LAMINATE GYP. BOARD OVER EXISTING BRICK. REF. DETAILS FOR ADD'L INFO'
9	PLASTIC LAMINATE UPPER/ BASE CABINETS
10	ADJUSTABLE PLASTIC LAMINATE SHELVING ON ADJUSTABLE STANDARDS. REF. FINISH PLAN FOR ADDITIONAL INFORMATION.
11	WOOD FLOATING GRADENZA WITH QUARTZ COUNTERTOP. CENTER CABIENT TO HAVE GLASS FOR AV COMPONENTS. REF. DETAIL FOR ADDITIONAL INFO.
12	SHIP LAP SIDING - REF. FINISH SCHEDULE
13	TV MOUNTING BRACKET - VERIFY MONITOR SIZE & LOCATION W/ OWNER
14	14" D PLASTIC LAMINATE WALL CABINETS
15	PLASTIC LAMINATE SHELF, w/ BACKSPLASH
16	UTILITY SINK - REF. PLUMBING
17	MOP SINK W/ 24" BOBRICK B-223 MOP RACK ABOVE - REF. PLUMBING
18	PLASTIC LAMINATE COUNTERTOP W/4"H BACKSPLASH & SIDES SPLASH REF. FINISH SCHEDULE. INSTALL SUPPORT BRACKETS, AS REQ.
19	DISPLAY CASE - REF. FINISH PLAN AND DETAILS FOR ADD'L INFO.
20	BULLET RESISTANT RECEPTION WINDOW AND WALL SURROUND - REF. FINISH PLAN AND DETAILS FOR ADD'L INFO.
21	GYP. BD. TRAY CEILING WITH WOOD FINISH ON HORIZONTAL SURFACE. INSTALL DECORATIVE PENDANT LIGHT FIXTURES. REF. RCP AND MEP FOR ADDITIONAL INFORMATION.
22	PLASTIC LAMINATE COUNTERTOP W/4"H BACKSPLASH & SIDES SPLASH REF. FINISH SCHEDULE. INSTALL SUPPORT BRACKETS, AS REQ. VERIFY HEIGHT OF COUNTER FOR OWNER PROVIDED FILE CABINETS.
23	CUSTOM BUILT-IN DIAS, WOOD VENEER FRONT FACADE w/ CONCEALED BULLET RESISTANT PANELS AND METAL REVEAL. QUARTZ TRANSACTION TOP, DASHED LINE INDICATES CONTINUOUS CONCEALED UNDER COUNTER LED LIGHT FIXTURE UNDER TRANSACTION TOP. LAMINATE REMOVABLE INTERIOR PANELS w/BLACK METAL SUPPORT BRACKETS, PLAM WORKSURFACE. SEE FINISH PLAN AND DETAILS.
24	GYP. BOARD SOFFIT w/ COVE LIGHT. REF. MEP.
25	DASHED LINE INDICATES WALL WASH COVE LIGHT - REF. MEP.
26	DASHED LINE INDICATES WALL GRAPHIC/ SIGNAGE BY OWNER - COORDINATE BLOCKING AS REQ.
27	EXISTING ELECTRICAL PANEL - REF. MEP.
28	DECORATIVE WOOD PANELS w/ METAL REVEAL. REF. FINISH PLAN AND DETAILS FOR ADDITIONAL INFORMATION. DASHED LINE INDICATES VERTICAL LIGHT COVE. REF. MEP.
29	NEW BLOCK WALLS TO CREATE MECHANICAL CHASE. REF. MEP. AND FLOOR PLAN.
30	PAINT APPARATUS BAY - TWO DIFFERENT WALL COLORS. STRIKE A LINE AS SHOWN. PAINT LINE TO BE CONTINOUS AND LEVEL ENTIRE ROOM.
31	24" x 36" MIRROR - BOBRICK # B-165X2436
32	WALL TILE WITH GLASS RIBBON ACCENT. INSTALL SMOOTH AND ALIGN GROUT JOINTS. REF. FINISH PLAN AND SCHEDULE.
33	PLASTIC LAMINATE FLOATING CABINET WITH QUARTZ COUNTERTOP. REF. DETAIL FOR ADDITIONAL INFO.
34	ADJUSTABLE HAND HELD SHOWER & SLIDER
35	SHOWER CONTROL VALVE
36	SOLID SURFACE - SHOWER SURROUNDS - REF. FINISH PLAN AND SCHEDULE
37	GLASS SHOWER DOORS AND SOLID SURFACE SHOWER PAN - REF. FINISH PLAN AND SCHEDULE
38	UTILITY SINK W/ DRAINBOARD - FIELD VERIFY SIZE. REF. PLUMBING DWGS
39	FRP WAINSCOT WALL PROTECTION ALL WALLS, ENTIRE ROOM. INSTALL UNDER AND AROUND WINDOW. - REF. FINISH SCHEDULE
40	WALL TILE WITH ACCENT STRIPE. INSTALL SMOOTH AND ALIGN GROUT JOINTS. REF. FINISH PLAN AND SCHEDULE.
41	REINSTALLED TOILET PARTITIONS
42	DECORATIVE WALL TILE. INSTALL SMOOTH AND ALIGN GROUT JOINTS. REF. FINISH PLAN AND SCHEDULE.
43	DRINKING FOUNTAIN W/ BOTTLE FILLER - REF. PLUMBING
44	6" HOUSEKEEPING PAD - VERIFY SIZE W/ OWNER SUPPLIED EQUIP.

STATE OF MISSOURI
ROY A. MANSFIELD
NUMBER A-6661
ARCHITECT
03/15/24
Roy A. Mansfield
MO Architect License No: A-6661
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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

Revision
No. Date

INTERIOR ELEVATIONS

Project No.
22135
Sheet No.
A400
Date
03/15/2024

3/21/2024 2:15:04 PM
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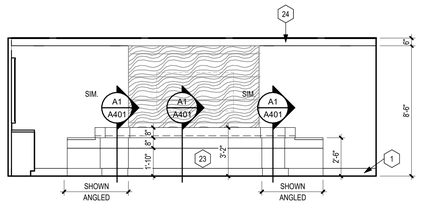
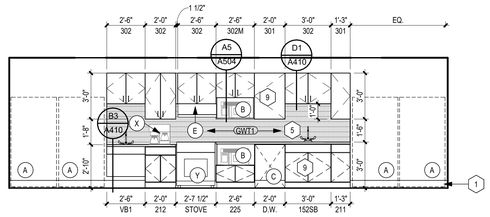
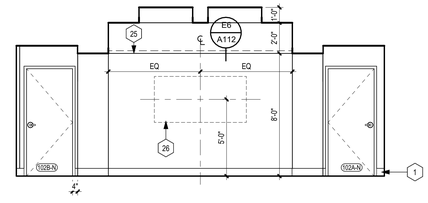
SCALE: 3" = 1'-0" 1' 6' 3' 0
SCALE: 1 1/2" = 1'-0" 2' 1' 6' 3' 0
SCALE: 1" = 1'-0" 2' 1' 6' 3' 0
SCALE: 3/4" = 1'-0" 4' 2' 1' 0
SCALE: 1/2" = 1'-0" 4' 2' 1' 0
SCALE: 3/8" = 1'-0" 6' 4' 2' 0
SCALE: 1/4" = 1'-0" 8' 4' 2' 0
SCALE: 1/8" = 1'-0" 16' 8' 4' 0
SCALE: 3/32" = 1'-0" 24' 16' 8' 0
SCALE: 1/16" = 1'-0" 32' 16' 8' 0



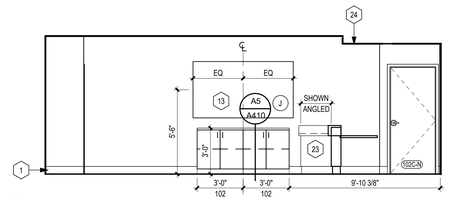
E1 BOARD ROOM A102 - WEST ELEVATION
1/4" = 1'-0"



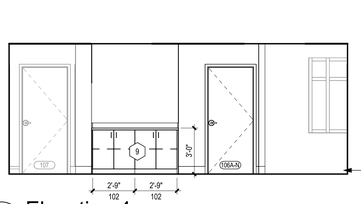
E2 BREAKROOM A120 - WEST ELEVATION
1/4" = 1'-0"



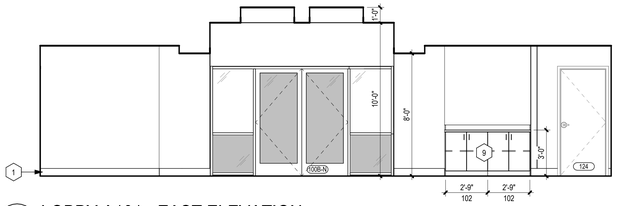
E3 LOBBY A101 - WEST ELEVATION
1/4" = 1'-0"



D1 BOARD ROOM A102 - SOUTH ELEVATION
1/4" = 1'-0"



D2 Elevation 4 - a
1/4" = 1'-0"



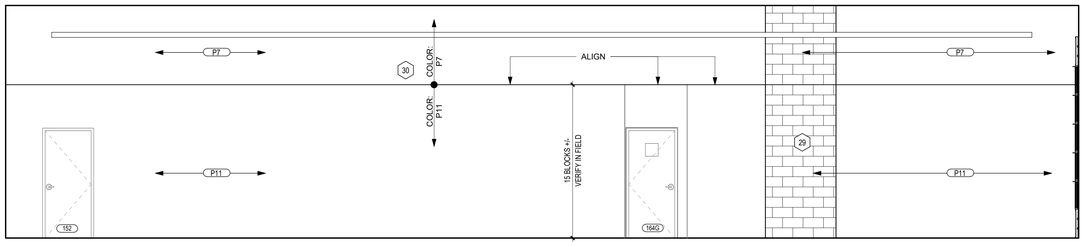
D3 LOBBY A101 - EAST ELEVATION
1/4" = 1'-0"

C1 COPY/ WORK A138 - EAST
1/4" = 1'-0"

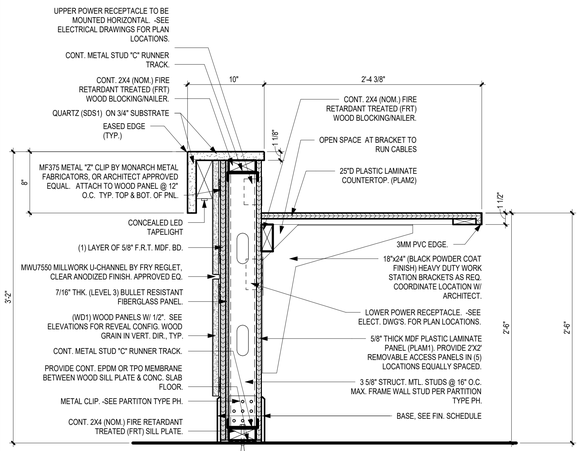
C2 COPY/ WORK A138 - SOUTH
1/4" = 1'-0"

C3 COPY/ WORK A138 - WEST
1/4" = 1'-0"

C4 WOOD PANELS
1/4" = 1'-0"



B3 APPARATUS BAY - INTERIOR ELEVATION (PAINT)
1/4" = 1'-0"



A1 DAIS SECTION
1 1/2" = 1'-0"

	EQUIPMENT SCHEDULE	PROVIDED OWNER	PROVIDED G.C.	INSTALLED OWNER	INSTALLED G.C.
A	REFRIGERATOR - KitchenAid Model # KBFF305ESS INCLUDE WATER LINE HOOKUP	X			X
B	MICROWAVE	X		X	
C	DISHWASHER - KitchenAid Model # KDTE334GPS	X			X
D	GAS COOKTOP - KitchenAid Model # KCGS556ESS	X			X
E	STAINLESS STEEL HOOD		X		X
F	DOUBLE STACKED ELECTRIC OVEN	X			X
G	RESIDENTIAL WASHER	X			X
H	RESIDENTIAL DRYER	X			X
J	WALL MOUNTED TV/MONITOR W/WALL BRACKET	X			X
K	TWIN BED	X		X	
L	MISC. FURNITURE	X		X	
M	PAPER TOWEL DISPENSER	X			X
N	ICE MAKER	X			X
P	EXTRACTOR - Dexter Model # T-400	X			X
Q	AIR COMPRESSOR - Ingersoll Rand Model # 2340N3		X		X
R	GEAR LOCKERS		X		X
S	STAINLESS STEEL SINK		X		X
T	VENDING MACHINE	X		X	
U	TRAINING MANHOLE		X		X
V	EXTERIOR BUILDING SIGNAGE	X		X	
W	EXTERIOR MONUMENT SIGNAGE & READER BOARD	X		X	
X	COFFEE MAKER WITH WATER LINE	X		X	
Y	ELECTRIC STOVE / OVEN	X			X
Z	S.S. KITCHEN HOOD W/ FIRE SUPPRESSION SYS.		X		X
A1	UNDERCOUNTER REFRIGERATOR	X		X	
A2	DOUBLE ROBE HOOK BOBRICK B-672		X		X
A3	SCBA EQUIPMENT	X		X	
AV-1	55" / 82" MONITOR W/ BRACKETS - REF. ELEC	X		X	
AV-2	PROJECTION SCREEN - REF. ELEC.	X		X	
AV-3	CEILING MOUNTED PROJECTOR - REF. ELEC.	X		X	
AV-4	WALL MOUNTED SPEAKER - REF. ELEC.	X		X	
AV-5	CAMERA - REF. ELEC.	X		X	

INTERIOR ELEVATION KEYED NOTES

1	WALL BASE, AS SCHEDULED.
2	KITCHEN GYP. BOARD SOFFIT, PAINT HIGHLIGHT COLOR AS INDICATED. INSTALL DECORATIVE PENDANT LIGHT FIXTURES, REF. MEP.
3	KITCHEN: QUARTZ COUNTERTOPS WITH WOOD CABINETRY. INCLUDE FILLERS AS REQ'D. SEE FINISH PLAN AND SCHEDULE FOR ADD'L INFO.
4	RECESSED NICHE FOR FRIDGE AND WOOD PANTRY STORAGE CABINET. REF. FLOOR PLANS FOR DIMENSIONS AND DETAILS FOR PANTRY DIMENSIONS.
5	DECORATIVE WALL TILE, REF. FINISH PLAN. ALIGN EGDE OF TILE WITH EDGE OF COUNTERTOP. USE REQUIRED TRANSITION STRIP AT EXPOSED PERIMETER EDGES. INSTALL TILE SMOOTH, ALIGN VERTICAL GROUT JOINTS.
6	COFFEE STATION: DECORATIVE WALL TILE, REF. FINISH PLAN. INSTALL TILE SMOOTH, ALIGN VERTICAL GROUT JOINTS. WOOD BASE CABINET, REF. FINISH PLAN FOR ADD'L INFO. PROVIDE POWER/ WATER LINE FOR COFFEE. REF. MEP.
7	BABY BOX - REF. DETAILS FOR ADDITIONAL INFORMATION.
8	LAMINATE GYP. BOARD OVER EXISTING BRICK. REF. DETAILS FOR ADD'L INFO'
9	PLASTIC LAMINATE UPPER/ BASE CABINETS
10	ADJUSTABLE PLASTIC LAMINATE SHELVING ON ADJUSTABLE STANDARDS. REF. FINISH PLAN FOR ADDITIONAL INFORMATION.
11	WOOD FLOATING CRADENZA WITH QUARTZ COUNTERTOP. CENTER CABIENT TO HAVE GLASS FOR AV COMPONENTS. REF. DETAIL FOR ADDITIONAL INFO.
12	SHIP LAP SIDING - REF. FINISH SCHEDULE
13	TV MOUNTING BRACKET - VERIFY MONITOR SIZE & LOCATION W/ OWNER
14	14" D PLASTIC LAMINATE WALL CABINETS
15	PLASTIC LAMINATE SHELF, w/ BACKSPLASH
16	UTILITY SINK - REF. PLUMBING
17	MOP SINK W/ 24" BOBRICK B-223 MOP RACK ABOVE - REF. PLUMBING
18	PLASTIC LAMINATE COUNTERTOP W/4"H BACKSPLASH & SIDES SPLASH REF. FINISH SCHEDULE. INSTALL SUPPORT BRACKETS, AS REQ.
19	DISPLAY CASE - REF. FINISH PLAN AND DETAILS FOR ADD'L INFO.
20	BULLET RESISTANT RECEPTION WINDOW AND WALL SURROUND - REF. FINISH PLAN AND DETAILS FOR ADD'L INFO.
21	GYP. BD. TRAY CEILING WITH WOOD FINISH ON HORIZONTAL SURFACE. INSTALL DECORATIVE PENDANT LIGHT FIXTURES. REF. RCP AND MEP FOR ADDITIONAL INFORMATION.
22	PLASTIC LAMINATE COUNTERTOP W/4"H BACKSPLASH & SIDES SPLASH REF. FINISH SCHEDULE. INSTALL SUPPORT BRACKETS, AS REQ. VERIFY HEIGHT OF COUNTER FOR OWNER PROVIDED FILE CABINETS.
23	CUSTOM BUILT-IN DIAS, WOOD VENEER FRONT FACADE w/ CONCEALED BULLET RESISTANT PANELS AND METAL REVEAL. QUARTZ TRANSACTION TOP. DASHED LINE INDICATES CONTINUOUS CONCEALED UNDER COUNTER LED LIGHT FIXTURE UNDER TRANSACTION TOP. LAMINATE REMOVABLE INTERIOR PANELS w/BLACK METAL SUPPORT BRACKETS, PLAM WORKSURFACE. SEE FINISH PLAN AND DETAILS.
24	GYP. BOARD SOFFIT w/ COVE LIGHT. REF. MEP.
25	DASHED LINE INDICATES WALL WASH COVE LIGHT - REF. MEP.
26	DASHED LINE INDICATES WALL GRAPHIC/ SIGNAGE BY OWNER - COORDINATE BLOCKING AS REQ.
27	EXISTING ELECTRICAL PANEL - REF. MEP.
28	DECORATIVE WOOD PANELS w/ METAL REVEAL. REF. FINISH PLAN AND DETAILS FOR ADDITIONAL INFORMATION. DASHED LINE INDICATES VERTICAL LIGHT COVE. REF. MEP.
29	NEW BLOCK WALLS TO CREATE MECHANICAL CHASE. REF. MEP. AND FLOOR PLAN.
30	PAINT APPARATUS BAY - TWO DIFFERENT WALL COLORS. STRIKE A LINE AS SHOWN. PAINT LINE TO BE CONTINOUS AND LEVEL ENTIRE ROOM.
31	24" x 36" MIRROR - BOBRICK # B-165X2436
32	WALL TILE WITH GLASS RIBBON ACCENT. INSTALL SMOOTH AND ALIGN GROUT JOINTS. REF. FINISH PLAN AND SCHEDULE.
33	PLASTIC LAMINATE FLOATING CABINET WITH QUARTZ COUNTERTOP. REF. DETAIL FOR ADDITIONAL INFO.
34	ADJUSTABLE HAND HELD SHOWER & SLIDER
35	SHOWER CONTROL VALVE
36	SOLID SURFACE - SHOWER SURROUNDS - REF. FINISH PLAN AND SCHEDULE
37	GLASS SHOWER DOORS AND SOLID SURFACE SHOWER PAN - REF. FINISH PLAN AND SCHEDULE
38	UTILITY SINK W/ DRAINBOARD - FIELD VERIFY SIZE. REF. PLUMBING DWGS
39	FRP WAINSCOT WALL PROTECTION ALL WALLS, ENTIRE ROOM. INSTALL UNDER AND AROUND WINDOW. - REF. FINISH SCHEDULE
40	WALL TILE WITH ACCENT STRIPE. INSTALL SMOOTH AND ALIGN GROUT JOINTS. REF. FINISH PLAN AND SCHEDULE.
41	REINSTALLED TOILET PARTITIONS
42	DECORATIVE WALL TILE. INSTALL SMOOTH AND ALIGN GROUT JOINTS. REF. FINISH PLAN AND SCHEDULE.
43	DRINKING FOUNTAIN W/ BOTTLE FILLER - REF. PLUMBING
44	6" HOUSEKEEPING PAD - VERIFY SIZE W/ OWNER SUPPLIED EQUIP.

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03/15/24
Roy A. Mikoleit
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[Consultants]

Proposed:
Mehlville Fire Houses No.5
11020 MUELLER ROAD

Revision
Date
No.

INTERIOR ELEVATIONS

Project No. 22135
Sheet No. A401
Date 03/15/2024

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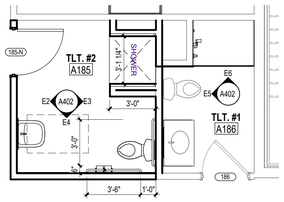
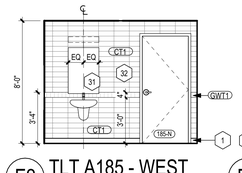
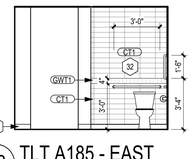


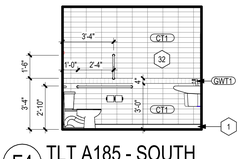
E1 TOILETS A185 AND A186
1/4" = 1'-0"



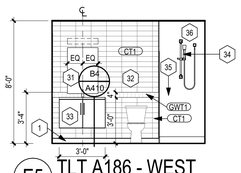
E2 TLT A185 - WEST
1/4" = 1'-0"



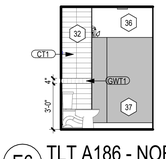
E3 TLT A185 - EAST
1/4" = 1'-0"



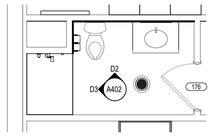
E4 TLT A185 - SOUTH
1/4" = 1'-0"



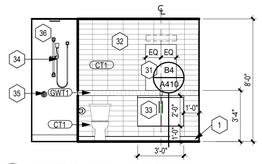
E5 TLT A186 - WEST
1/4" = 1'-0"



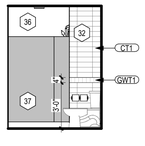
E6 TLT A186 - NORTH
1/4" = 1'-0"



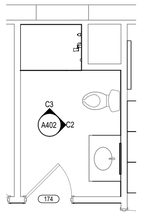
D1 TOILET A176
1/4" = 1'-0"



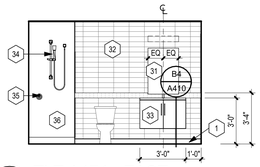
D2 TLT A176 - NORTH
1/4" = 1'-0"



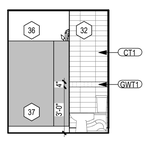
D3 TLT A176 - WEST
1/4" = 1'-0"



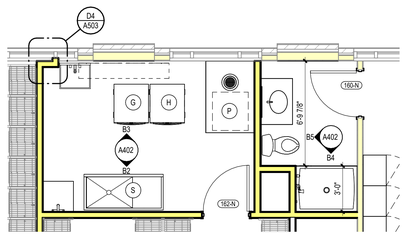
C1 TOILET A174
1/4" = 1'-0"



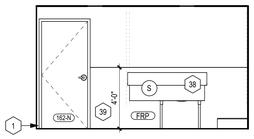
C2 TLT A174 - EAST
1/4" = 1'-0"



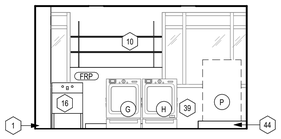
C3 TLT A174 - NORTH
1/4" = 1'-0"



B1 DECON A162 AND TOILET A160
1/4" = 1'-0"

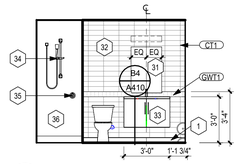


B2 DECON A162 - SOUTH
1/4" = 1'-0"

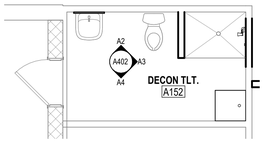


B3 DECON A162 - NORTH
1/4" = 1'-0"

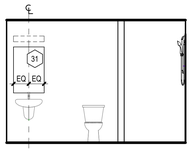
B4 TLT A160 - SOUTH
1/4" = 1'-0"



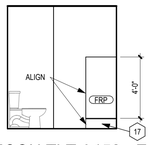
B5 TLT A160 - WEST
1/4" = 1'-0"



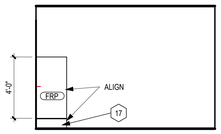
A1 DECON TOILET A152
1/4" = 1'-0"



A2 DECON TLT A152 - NORTH
1/4" = 1'-0"



A3 DECON TLT A152 - EAST
1/4" = 1'-0"



A4 DECON TLT A152 - SOUTH
1/4" = 1'-0"

EQUIPMENT SCHEDULE

		PROVIDED		INSTALLED	
		OWNER	G.C.	OWNER	G.C.
A	REFRIGERATOR - KitchenAid Model # KBFF305ESS INCLUDE WATER LINE HOOKUP	X			X
B	MICROWAVE	X		X	
C	DISHWASHER - KitchenAid Model # KDTE334GPS	X			X
D	GAS COOKTOP - KitchenAid Model # KCGS556ESS	X			X
E	STAINLESS STEEL HOOD		X		X
F	DOUBLE STACKED ELECTRIC OVEN	X			X
G	RESIDENTIAL WASHER	X			X
H	RESIDENTIAL DRYER	X			X
J	WALL MOUNTED TV/MONITOR W/WALL BRACKET	X			X
K	TWIN BED	X		X	
L	MISC. FURNITURE	X		X	
M	PAPER TOWEL DISPENSER	X			X
N	ICE MAKER	X			X
P	EXTRACTOR - Dexter Model # T-400	X			X
Q	AIR COMPRESSOR - Ingersoll Rand Model # 2340N3		X		X
R	GEAR LOCKERS		X		X
S	STAINLESS STEEL SINK		X		X
T	VENDING MACHINE	X		X	
U	TRAINING MANHOLE		X		X
V	EXTERIOR BUILDING SIGNAGE	X		X	
W	EXTERIOR MONUMENT SIGNAGE & READER BOARD	X		X	
X	COFFEE MAKER WITH WATER LINE	X		X	
Y	ELECTRIC STOVE / OVEN	X			X
Z	S.S. KITCHEN HOOD W/ FIRE SUPPRESSION SYS.		X		X
A1	UNDERCOUNTER REFRIGERATOR	X		X	
A2	DOUBLE ROBE HOOK BOBRICK B-672		X		X
A3	SCBA EQUIPMENT	X		X	
AV-1	55" / 82" MONITOR W/ BRACKETS - REF. ELEC	X		X	
AV-2	PROJECTION SCREEN - REF. ELEC.	X		X	
AV-3	CEILING MOUNTED PROJECTOR - REF. ELEC.	X		X	
AV-4	WALL MOUNTED SPEAKER - REF. ELEC.	X		X	
AV-5	CAMERA - REF. ELEC.	X		X	

INTERIOR ELEVATION KEYED NOTES

1	WALL BASE, AS SCHEDULED.
2	KITCHEN GYP. BOARD SOFFIT, PAINT HIGHLIGHT COLOR AS INDICATED. INSTALL DECORATIVE PENDANT LIGHT FIXTURES, REF. MEP.
3	KITCHEN: QUARTZ COUNTERTOPS WITH WOOD CABINETRY. INCLUDE FILLERS AS REQ'D. SEE FINISH PLAN AND SCHEDULE FOR ADD'L INFO.
4	RECESSED NICHE FOR FRIDGE AND WOOD PANTRY STORAGE CABINET. REF. FLOOR PLANS FOR DIMENSIONS AND DETAILS FOR PANTRY DIMENSIONS.
5	DECORATIVE WALL TILE, REF. FINISH PLAN. ALIGN EGDE OF TILE WITH EDGE OF COUNTERTOP. USE REQUIRED TRANSITION STRIP AT EXPOSED PERIMETER EDGES. INSTALL TILE SMOOTH, ALIGN VERTICAL GROUT JOINTS.
6	COFFEE STATION: DECORATIVE WALL TILE, REF. FINISH PLAN. INSTALL TILE SMOOTH, ALIGN VERTICAL GROUT JOINTS. WOOD BASE CABINET, REF. FINISH PLAN FOR ADD'L INFO. PROVIDE POWER/ WATER LINE FOR COFFEE. REF. MEP.
7	BABY BOX - REF. DETAILS FOR ADDITIONAL INFORMATION.
8	LAMINATE GYP. BOARD OVER EXISTING BRICK. REF. DETAILS FOR ADD'L INFO'
9	PLASTIC LAMINATE UPPER/ BASE CABINETS
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11	WOOD FLOATING GRADENZA WITH QUARTZ COUNTERTOP. CENTER CABIENT TO HAVE GLASS FOR AV COMPONENTS. REF. DETAIL FOR ADDITIONAL INFO.
12	SHIP LAP SIDING - REF. FINISH SCHEDULE
13	TV MOUNTING BRACKET - VERIFY MONITOR SIZE & LOCATION W/ OWNER
14	14" D PLASTIC LAMINATE WALL CABINETS
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16	UTILITY SINK - REF. PLUMBING
17	MOP SINK W/ 24" BOBRICK B-223 MOP RACK ABOVE - REF. PLUMBING
18	PLASTIC LAMINATE COUNTERTOP W/4"H BACKSPLASH & SIDES SPLASH REF. FINISH SCHEDULE. INSTALL SUPPORT BRACKETS, AS REQ.
19	DISPLAY CASE - REF. FINISH PLAN AND DETAILS FOR ADD'L INFO.
20	BULLET RESISTANT RECEPTION WINDOW AND WALL SURROUND - REF. FINISH PLAN AND DETAILS FOR ADD'L INFO.
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22	PLASTIC LAMINATE COUNTERTOP W/4"H BACKSPLASH & SIDES SPLASH REF. FINISH SCHEDULE. INSTALL SUPPORT BRACKETS, AS REQ. VERIFY HEIGHT OF COUNTER FOR OWNER PROVIDED FILE CABINETS.
23	CUSTOM BUILT-IN DIAS, WOOD VENEER FRONT FACADE w/ CONCEALED BULLET RESISTANT PANELS AND METAL REVEAL. QUARTZ TRANSACTION TOP. DASHED LINE INDICATES CONTINUOUS CONCEALED UNDER COUNTER LED LIGHT FIXTURE UNDER TRANSACTION TOP. LAMINATE REMOVABLE INTERIOR PANELS w/BLACK METAL SUPPORT BRACKETS, PLAM WORKSURFACE. SEE FINISH PLAN AND DETAILS.
24	GYP. BOARD SOFFIT w/ COVE LIGHT. REF. MEP.
25	DASHED LINE INDICATES WALL WASH COVE LIGHT - REF. MEP.
26	DASHED LINE INDICATES WALL GRAPHIC/ SIGNAGE BY OWNER - COORDINATE BLOCKING AS REQ.
27	EXISTING ELECTRICAL PANEL - REF. MEP.
28	DECORATIVE WOOD PANELS w/ METAL REVEAL. REF. FINISH PLAN AND DETAILS FOR ADDITIONAL INFORMATION. DASHED LINE INDICATES VERTICAL LIGHT COVE. REF. MEP.
29	NEW BLOCK WALLS TO CREATE MECHANICAL CHASE. REF. MEP. AND FLOOR PLAN.
30	PAINT APPARATUS BAY - TWO DIFFERENT WALL COLORS. STRIKE A LINE AS SHOWN. PAINT LINE TO BE CONTINOUS AND LEVEL ENTIRE ROOM.
31	24" x 36" MIRROR - BOBRICK # B-165X2436
32	WALL TILE WITH GLASS RIBBON ACCENT. INSTALL SMOOTH AND ALIGN GROUT JOINTS. REF. FINISH PLAN AND SCHEDULE.
33	PLASTIC LAMINATE FLOATING CABINET WITH QUARTZ COUNTERTOP. REF. DETAIL FOR ADDITIONAL INFO.
34	ADJUSTABLE HAND HELD SHOWER & SLIDER
35	SHOWER CONTROL VALVE
36	SOLID SURFACE - SHOWER SURROUNDS - REF. FINISH PLAN AND SCHEDULE
37	GLASS SHOWER DOORS AND SOLID SURFACE SHOWER PAN - REF. FINISH PLAN AND SCHEDULE
38	UTILITY SINK W/ DRAINBOARD - FIELD VERIFY SIZE. REF. PLUMBING DWGS
39	FRP WAINSCOT WALL PROTECTION ALL WALLS, ENTIRE ROOM. INSTALL UNDER AND AROUND WINDOW. - REF. FINISH SCHEDULE
40	WALL TILE WITH ACCENT STRIPE. INSTALL SMOOTH AND ALIGN GROUT JOINTS. REF. FINISH PLAN AND SCHEDULE.
41	REINSTALLED TOILET PARTITIONS
42	DECORATIVE WALL TILE. INSTALL SMOOTH AND ALIGN GROUT JOINTS. REF. FINISH PLAN AND SCHEDULE.
43	DRINKING FOUNTAIN W/ BOTTLE FILLER - REF. PLUMBING
44	6" HOUSEKEEPING PAD - VERIFY SIZE W/ OWNER SUPPLIED EQUIP.

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ARCHITECT
03/15/24
Roy A. Mansker

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[Consultants]

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

INTERIOR TOILET ELEVATIONS

Project No.
22135

Sheet No.
A402

Date
03/15/2024

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

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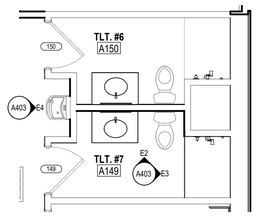
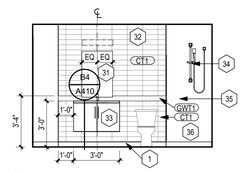
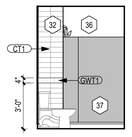


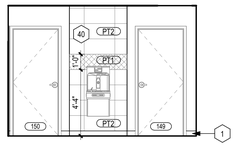
E1 TOILETS A149 AND A150
1/4" = 1'-0"



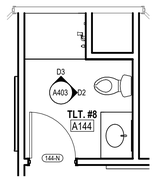
E2 TLT A149 - NORTH
1/4" = 1'-0"



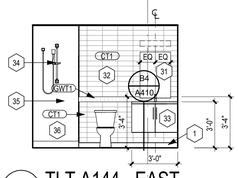
E3 TLT A149 - EAST
1/4" = 1'-0"



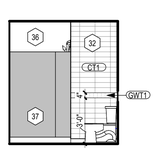
E4 DRINKING FOUNTAIN - CORRIDOR
1/4" = 1'-0"



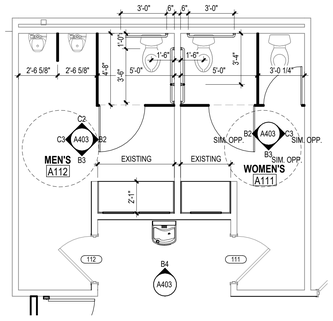
D1 TOILET A144
1/4" = 1'-0"



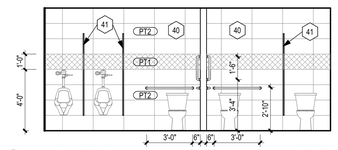
D2 TLT A144 - EAST
1/4" = 1'-0"



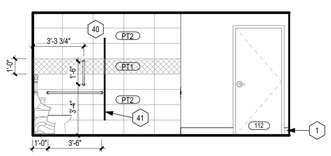
D3 TLT A144 - NORTH
1/4" = 1'-0"



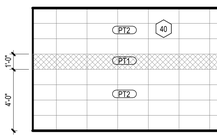
C1 WOMENS A111 AND MENS A112
1/4" = 1'-0"



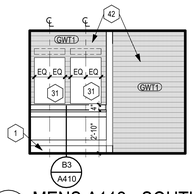
C2 WOMENS A111/ MENS A112 - NORTH
1/4" = 1'-0"



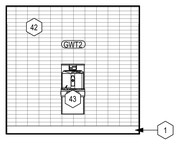
B2 MENS A112 - EAST
1/4" = 1'-0"



C3 MENS A112 - WEST
1/4" = 1'-0"



B3 MENS A112 - SOUTH
1/4" = 1'-0"



B4 DRINKING FOUNTAIN
1/4" = 1'-0"

	EQUIPMENT SCHEDULE	PROVIDED OWNER	PROVIDED G.C.	INSTALLED OWNER	INSTALLED G.C.
A	REFRIGERATOR - KitchenAid Model # KBFF305ESS INCLUDE WATER LINE HOOKUP	X			X
B	MICROWAVE	X		X	
C	DISHWASHER - KitchenAid Model # KDTE334GPS	X			X
D	GAS COOKTOP - KitchenAid Model # KCGS556ESS	X			X
E	STAINLESS STEEL HOOD		X		X
F	DOUBLE STACKED ELECTRIC OVEN	X			X
G	RESIDENTIAL WASHER	X			X
H	RESIDENTIAL DRYER	X			X
J	WALL MOUNTED TV/MONITOR W/WALL BRACKET	X			X
K	TWIN BED	X		X	
L	MISC. FURNITURE	X		X	
M	PAPER TOWEL DISPENSER	X			X
N	ICE MAKER	X			X
P	EXTRACTOR - Dexter Model # T-400	X			X
Q	AIR COMPRESSOR - Ingersoll Rand Model # 2340N3		X		X
R	GEAR LOCKERS		X		X
S	STAINLESS STEEL SINK		X		X
T	VENDING MACHINE	X		X	
U	TRAINING MANHOLE		X		X
V	EXTERIOR BUILDING SIGNAGE	X		X	
W	EXTERIOR MONUMENT SIGNAGE & READER BOARD	X		X	
X	COFFEE MAKER WITH WATER LINE	X		X	
Y	ELECTRIC STOVE / OVEN	X			X
Z	S.S. KITCHEN HOOD W/ FIRE SUPPRESSION SYS.		X		X
A1	UNDERCOUNTER REFRIGERATOR	X		X	
A2	DOUBLE ROBE HOOK BOBRICK B-672		X		X
A3	SCBA EQUIPMENT	X		X	
AV-1	55" / 82" MONITOR W/ BRACKETS - REF. ELEC	X		X	
AV-2	PROJECTION SCREEN - REF. ELEC.	X		X	
AV-3	CEILING MOUNTED PROJECTOR - REF. ELEC.	X		X	
AV-4	WALL MOUNTED SPEAKER - REF. ELEC.	X		X	
AV-5	CAMERA - REF. ELEC.	X		X	

	INTERIOR ELEVATION KEYED NOTES
1	WALL BASE, AS SCHEDULED.
2	KITCHEN GYP. BOARD SOFFIT, PAINT HIGHLIGHT COLOR AS INDICATED. INSTALL DECORATIVE PENDANT LIGHT FIXTURES, REF. MEP.
3	KITCHEN: QUARTZ COUNTERTOPS WITH WOOD CABINETRY. INCLUDE FILLERS AS REQ'D. SEE FINISH PLAN AND SCHEDULE FOR ADD'L INFO.
4	RECESSED NICHE FOR FRIDGE AND WOOD PANTRY STORAGE CABINET. REF. FLOOR PLANS FOR DIMENSIONS AND DETAILS FOR PANTRY DIMENSIONS.
5	DECORATIVE WALL TILE, REF. FINISH PLAN. ALIGN EGDE OF TILE WITH EDGE OF COUNTERTOP. USE REQUIRED TRANSITION STRIP AT EXPOSED PERIMETER EDGES. INSTALL TILE SMOOTH, ALIGN VERTICAL GROUT JOINTS.
6	COFFEE STATION: DECORATIVE WALL TILE, REF. FINISH PLAN. INSTALL TILE SMOOTH, ALIGN VERTICAL GROUT JOINTS. WOOD BASE CABINET, REF. FINISH PLAN FOR ADD'L INFO. PROVIDE POWER/ WATER LINE FOR COFFEE. REF. MEP.
7	BABY BOX - REF. DETAILS FOR ADDITIONAL INFORMATION.
8	LAMINATE GYP. BOARD OVER EXISTING BRICK. REF. DETAILS FOR ADD'L INFO'
9	PLASTIC LAMINATE UPPER/ BASE CABINETS
10	ADJUSTABLE PLASTIC LAMINATE SHELVING ON ADJUSTABLE STANDARDS. REF. FINISH PLAN FOR ADDITIONAL INFORMATION.
11	WOOD FLOATING GRADENZA WITH QUARTZ COUNTERTOP. CENTER CABIENT TO HAVE GLASS FOR AV COMPONENTS. REF. DETAIL FOR ADDITIONAL INFO.
12	SHIP LAP SIDING - REF. FINISH SCHEDULE
13	TV MOUNTING BRACKET - VERIFY MONITOR SIZE & LOCATION W/ OWNER
14	14" D PLASTIC LAMINATE WALL CABINETS
15	PLASTIC LAMINATE SHELF, w/ BACKSPLASH
16	UTILITY SINK - REF. PLUMBING
17	MOP SINK W/ 24" BOBRICK B-223 MOP RACK ABOVE - REF. PLUMBING
18	PLASTIC LAMINATE COUNTERTOP W/4"H BACKSPLASH & SIDES SPLASH REF. FINISH SCHEDULE. INSTALL SUPPORT BRACKETS, AS REQ.
19	DISPLAY CASE - REF. FINISH PLAN AND DETAILS FOR ADD'L INFO.
20	BULLET RESISTANT RECEPTION WINDOW AND WALL SURROUND - REF. FINISH PLAN AND DETAILS FOR ADD'L INFO.
21	GYP. BD. TRAY CEILING WITH WOOD FINISH ON HORIZONTAL SURFACE. INSTALL DECORATIVE PENDANT LIGHT FIXTURES. REF. RCP AND MEP FOR ADDITIONAL INFORMATION.
22	PLASTIC LAMINATE COUNTERTOP W/4"H BACKSPLASH & SIDES SPLASH REF. FINISH SCHEDULE. INSTALL SUPPORT BRACKETS, AS REQ. VERIFY HEIGHT OF COUNTER FOR OWNER PROVIDED FILE CABINETS.
23	CUSTOM BUILT-IN DIAS, WOOD VENEER FRONT FACADE w/ CONCEALED BULLET RESISTANT PANELS AND METAL REVEAL. QUARTZ TRANSACTION TOP, DASHED LINE INDICATES CONTINUOUS CONCEALED UNDER COUNTER LED LIGHT FIXTURE UNDER TRANSACTION TOP. LAMINATE REMOVABLE INTERIOR PANELS w/BLACK METAL SUPPORT BRACKETS, PLAM WORKSURFACE. SEE FINISH PLAN AND DETAILS.
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[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

INTERIOR TOILET ELEV. / MONT. HTS

Project No.
22135

Sheet No.
A403

Date
03/15/2024

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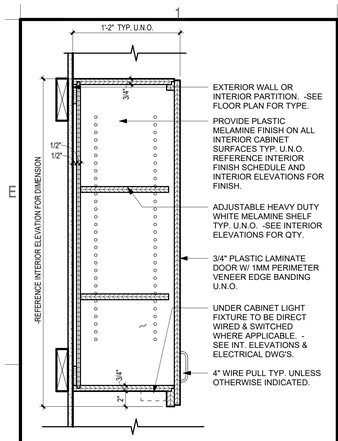
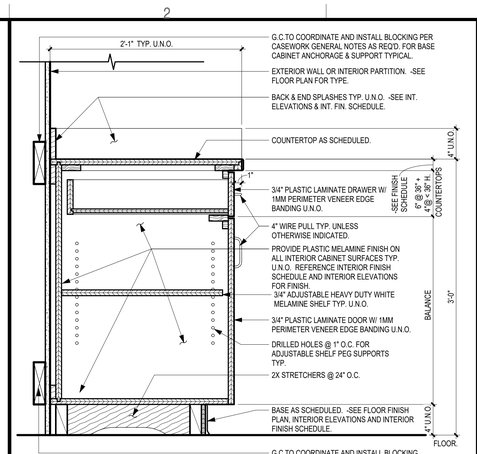
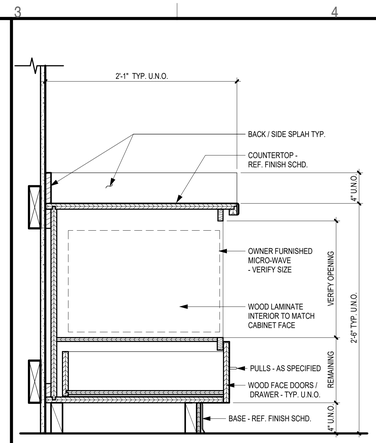


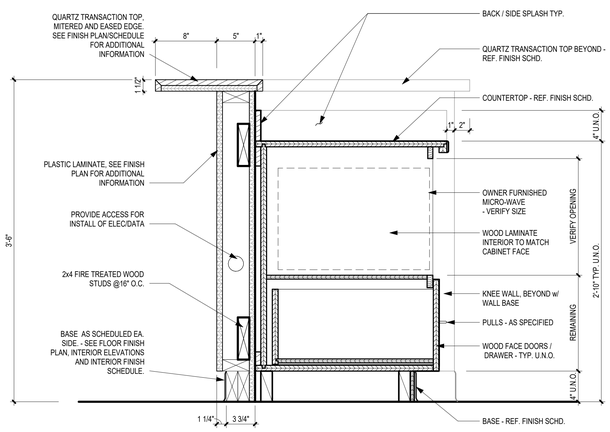
D1 TYPE 301AND 302 WALL HUNG CABINET DETAIL
1 1/2" = 1'-0"
301 & 302 WALL CABINET DETAIL_1.5W X 1.5H



D2 TYPE 211, 212 AND 222 BASE CABINET DETAIL
1 1/2" = 1'-0"
211,212,222 BASE CABINET DETAIL_1.5W X 1.5H



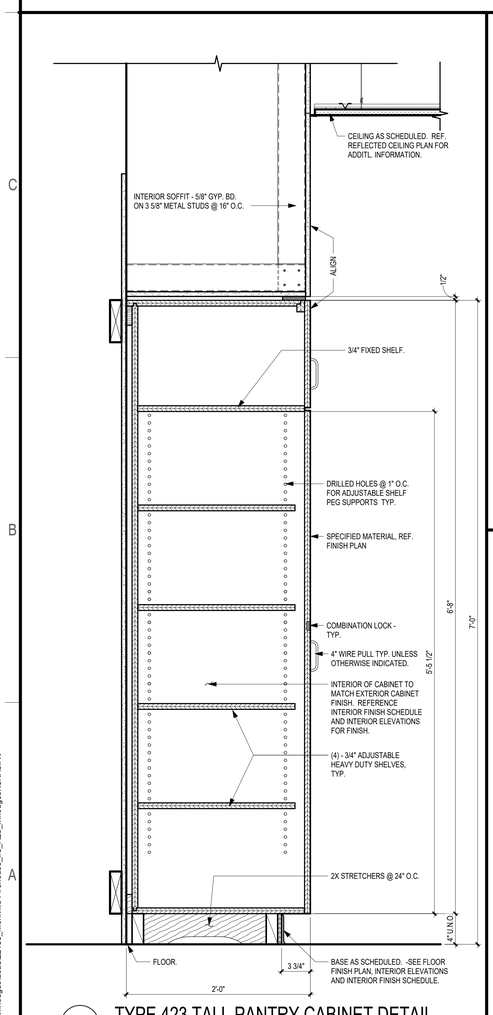
D3 TYPE 225 BASE CABINET
1 1/2" = 1'-0"



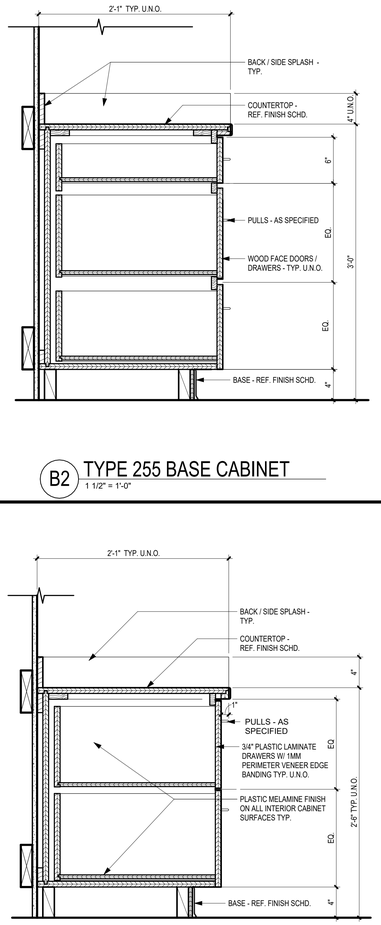
D4 TYPE 225 BASE CABINET @ ISLAND
1 1/2" = 1'-0"

CASEWORK GENERAL NOTES

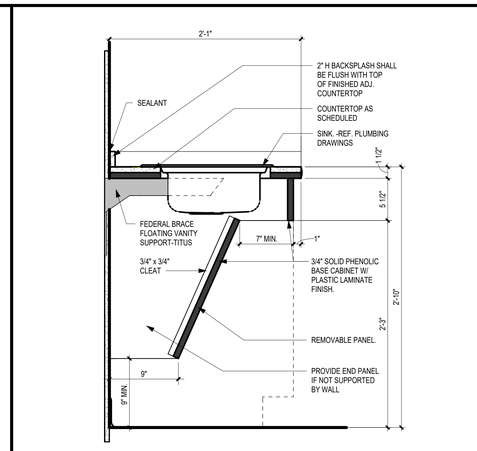
1. CONTRACTOR TO SUBMIT CASEWORK SHOP DRAWINGS TO DESIGNER FOR APPROVAL PRIOR TO FABRICATION AND ORDERING OF MATERIALS.
2. ALL CASEWORK TO BE CONSTRUCTED PER ARCHITECTURAL WOODWORKING INSTITUTE (AWI) QUALITY STANDARDS, 8TH EDITION, VERSION 1.0, 2003, UNLESS NOTED OTHERWISE.
3. ALL COUNTERTOPS TO HAVE 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. ALL EXPOSED ENDS & RETURNS TO BE FINISHED.
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 TO HAVE PLASTIC LAMINATE INTERIOR U.N.O.
8. CONTRACTOR TO PROVIDE, COORDINATE AND INSTALL ALL REQUIRED BLOCKING NECESSARY TO SUPPORT / SECURE 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 BLACK GROMMET COVERS. PROVIDE COLOR SAMPLES OF COUNTERTOP FINISH TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
12. CABINET DOOR PULLS TO BE 4" HIGH WIRE PULLS, UNLESS NOTED OTHERWISE. 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 3/4" RADIUS, UNLESS NOTED OTHERWISE. ALL EXPOSED ENDS & RETURNS TO BE FINISHED.
14. ALL LAMINATE DOORS TO BE FINISHED ON ALL SIDES.
15. ALL COUNTERTOP METAL ANGLE SUPPORT BRACKETS TO BE A&M HARDWARE D"X24" W/ BLACK POWDER COATED FINISH (OR APPROVED EQUAL) UNLESS NOTED OTHERWISE.
16. ALL UNDER CABINET LIGHTING SHALL BE CONTINUOUS LOW-PROFILE LED FIXTURES, EVENLY SPACED, COLOR WHITE U.N.O. FIXTURES 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. ALL UNDERCOUNTER LIGHTS SHALL BE DIRECT WIRED AND SWITCHED (-SEE INT. ELEV. & ELECT. DWGS.) 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".
19. 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.
20. ALL FINISHED SIDES OF BASE CABINETS SHALL HAVE VINYL BASE APPLIED TO THEM UNLESS NOTED OTHERWISE.
21. FRONT FACE OF ALL PLASTIC LAMINATE PENCIL DRAWER FRONTS SHALL ALIGN WITH FRONT FACE OF ANY ADJACENT PLASTIC LAMINATE APRON.
22. ALL PLASTIC LAMINATE DOOR AND DRAWERS TO RECEIVE 1MM PVC EDGEBAND AND ALL COUNTERTOPS TO RECEIVE 3MM EDGE BAND OR T-MOLD EDGEBAND. REFER TO FINISH SCHEDULE FOR EDGEBAND COLORS.



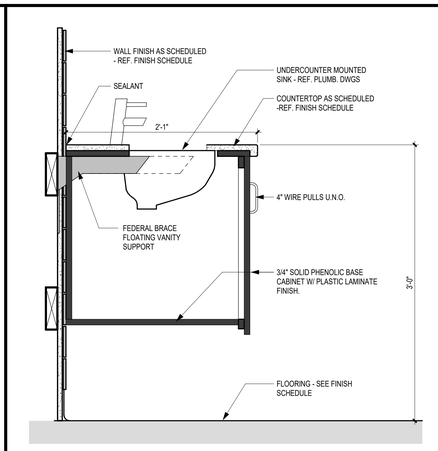
A1 TYPE 423 TALL PANTRY CABINET DETAIL
1 1/2" = 1'-0"



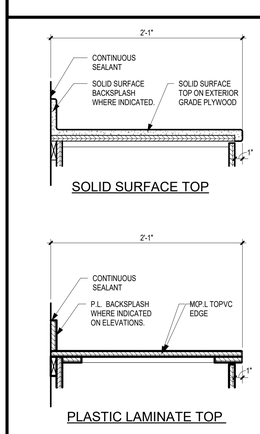
B2 TYPE 255 BASE CABINET
1 1/2" = 1'-0"



B3 ACCESSIBLE SINK / VANITY
1 1/2" = 1'-0"
05 41 16 SB1 ADA SINK ENCLOSURE

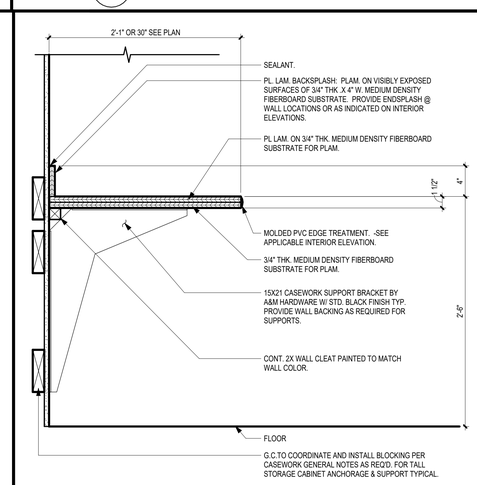


B4 SECTION THRU FLOATING VANITY

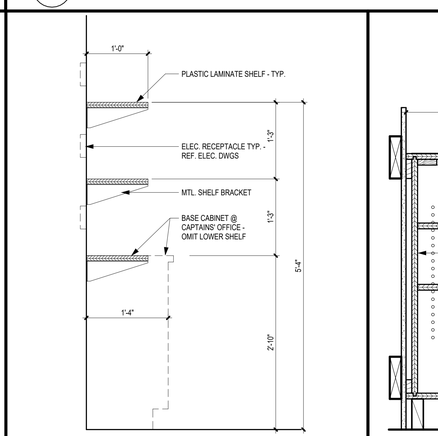


TYP. COUNTERTOP DETAILS

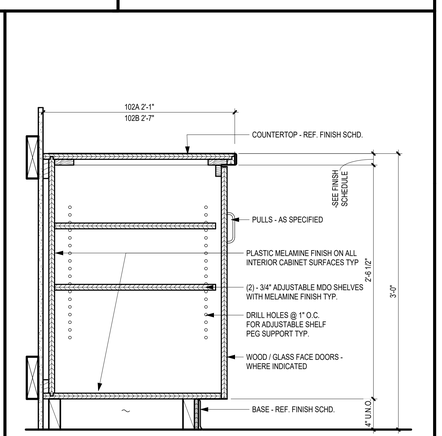
A2 TYPE 223 FILE CABINET
1 1/2" = 1'-0"



A3 COUNTER TOP BRACKET DETAIL



A4 SEC. THRU CHARGING STATION



A5 TYPE 102A & 102B BASE CABINET
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: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

3/21/2024 2:15:41 PM
C:\Users\mhodges\acad\22135_Mehlville Firehouse_#5_R23_mhodgesNBNA5.rvt

STATE OF MISSOURI
ROY A. MARSHALL
NUMBER A-6661
ARCHITECT
03/15/24
Roy A. Marshall
MO Architect License No: A-6661
Expires: 12/31/24

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

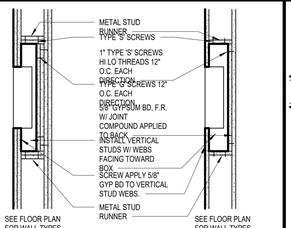
No.	Date	Revision

CASEWORK DETAILS

Project No.
22135

Sheet No.
A410

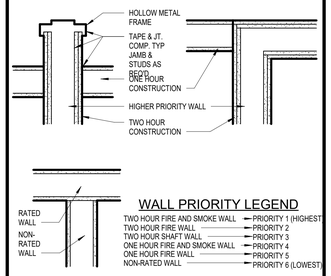
Date
03/15/2024



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.

RATED WALL FIXTURE/BOX RECESS

N.T.S. 09.21.16.00B RTD WALL OPNG

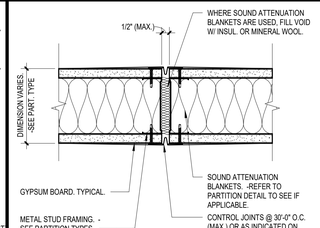


WALL PRIORITY LEGEND

TWO HOUR FIRE AND SMOKE WALL	PRIORITY 1 (HIGHEST)
TWO HOUR FIRE WALL	PRIORITY 2
TWO HOUR SHAFT WALL	PRIORITY 3
ONE HOUR FIRE AND SMOKE WALL	PRIORITY 4
ONE HOUR FIRE WALL	PRIORITY 5
NON-RATED WALL	PRIORITY 6 (LOWEST)

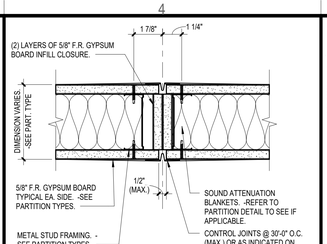
WALL PRIORITIES (RATED WALLS)

N.T.S. 09.21.06.00A WALL PRIORITIES



TYP. INTERIOR CONTROL JOINT (NON-RATED) "CJ-01"

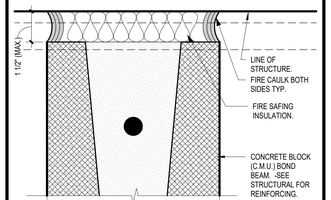
3" = 1'-0" 09.21.16.00.CJ01



PLAN VIEW

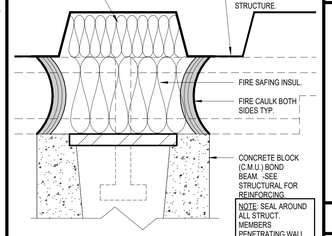
TYP. INTERIOR CONTROL JOINT (1 HR. RATED) "CJ-02"

3" = 1'-0" 09.21.16.00.CJ02



TYPE "U" HEAD OF WALL DETAIL

6" = 1'-0" 04.22.00.01U HEAD OF WALL DET_1W X 1H



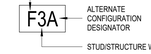
TYPE "V" HEAD OF WALL DETAIL

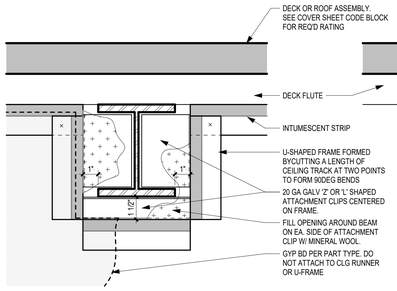
6" = 1'-0" 04.22.00.01V HEAD OF WALL DET_1W X 1H

GENERAL PARTITION NOTES

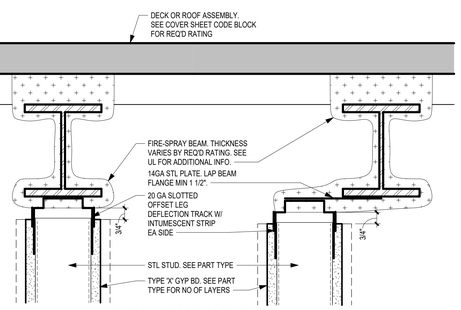
1. INSTALL DEFLECTION TRACK AT TOP OF ALL FULL HEIGHT WALLS.
2. INSTALL MOISTURE RESISTANT GYPSUM BOARD AT ALL TOILET / LAVATORY WALLS AND CEILINGS EXCEPT SHOWER / TUBS ENCLOSURES.
3. INSTALL 1/2" CEMENT BOARD AT ALL SHOWER / TUB ENCLOSURES SCHEDULED TO RECEIVE TILE / SOLID SURFACE FINISH.
4. PROVIDE 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"
5. SEE DETAILS THIS SHEET FOR RATED WALL INTERSECTION PRIORITY INSTALLATION.
6. SEE DETAILS THIS SHEET FOR DETAILS OF WALL CONSTRUCTION AT BOXES RECESSED IN RATED WALLS.
7. PARTITIONS THAT INCLUDE SOUND ATTENUATION BLANKETS (S.A.B.) & SEALANT ARE TO BE CONSIDERED ACOUSTIC PARTITIONS AND USE THE ACOUSTIC TERMINATION DETAILS.
8. 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.
9. INSTALL CONTROL JOINTS IN METAL STUD WALLS PER DETAIL

PARTITION KEY LEGEND

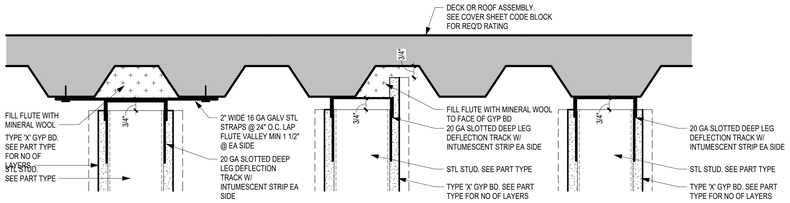




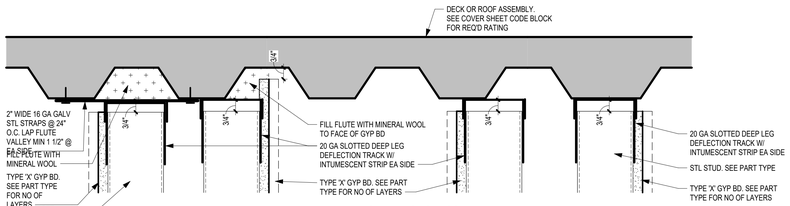
FLUTED STEEL DECK OR ROOF STEEL BEAM/JOIST PENETRATION 1 & 2 HR UL-HW-D-0495



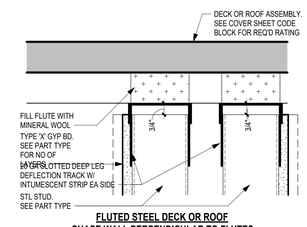
FLUTED STEEL DECK OR ROOF PARALLEL UNDER STEEL BEAM/JOIST 1 & 2 HR UL-HW-D-0502



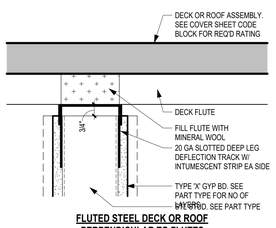
FLUTED STEEL DECK OR ROOF PARALLEL TO FLUTES 1 & 2 HR UL-HW-D-0499



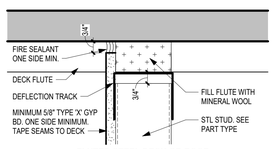
FLUTED STEEL DECK OR ROOF CHASE WALL PARALLEL TO FLUTES 1 & 2 HR UL-HW-D-0544



FLUTED STEEL DECK OR ROOF CHASE WALL PERPENDICULAR TO FLUTES 1 & 2 HR UL-HW-D-0506



FLUTED STEEL DECK OR ROOF PERPENDICULAR TO FLUTES 1,2, & 3 HR UL-HW-D-0513



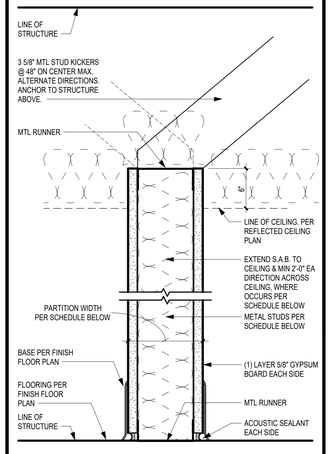
FLUTED STEEL DECK OR ROOF PERPENDICULAR TO FLUTES PARALLEL SIMILAR SMOKE PARTITION

A1 HEAD OF PARTITION DETAILS

3" = 1'-0"

GEN. HEAD OF PARTITION NOTES

1. PARTITION HEAD DETAILS ARE INTENDED AS GENERAL REFERENCE ONLY.
2. LISTED UL (UNDERWRITERS LABORATORIES) ASSEMBLIES ARE BASIS OF DESIGN ONLY AND NOT ALL REQUIREMENTS ARE SHOWN. REFERENCE UL FOR ADDITIONAL INFORMATION.
3. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND RESEARCH APPLICABLE UL ASSEMBLIES INCLUDING ADDITIONAL ASSEMBLIES THAT MAY BE REQUIRED TO MAINTAIN THE INTEGRITY OF A RATED ASSEMBLY. ADDITIONAL AND ALTERNATE ASSEMBLIES SHOULD BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
4. FASTEN TRACKS TO SUBSTRATE ABOVE AT 24" O.C. (U.N.O.).
5. DO NOT FASTEN GYP BD TO DEFLECTION TRACK. FASTEN TO EACH VERTICAL STUD 2" MAXIMUM BELOW THE BOTTOM LEG OF THE DEFLECTION TRACK. (U.N.O.)



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
A3	3 5/8"	4 7/8"	-	-	A,B
A3A	3 5/8"	4 7/8"	3 1/2"	-	A
A6	6"	7 1/4"	-	-	A,B
A6A	6"	7 1/4"	3 1/2"	-	A

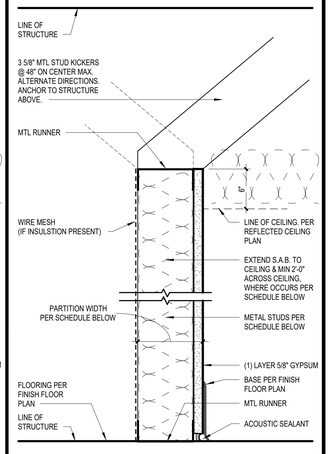
FIRE RATING: N/A

BASIS OF DESIGN: N/A

REMARKS:
A. STUD SPACING 16" O.C. MAX
B. OMIT SEALANT

A NON-RATED PARTITION

SCALE: 3" = 1'-0" 09.21.16.01_A NR PARTITION



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
B1	1 5/8"	2 1/4"	-	-	A,B,C
B3	3 5/8"	4 1/4"	-	-	A,B
B3A	3 5/8"	4 1/4"	3 1/2"	-	A
B6	6"	6 5/8"	-	-	A,B
B6A	6"	6 5/8"	3 1/2"	-	A

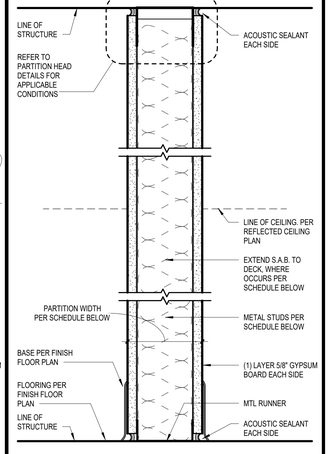
FIRE RATING: N/A

BASIS OF DESIGN: N/A

REMARKS:
A. STUD SPACING 16" O.C. MAX
B. OMIT SEALANT
C. OMIT KICKERS

B NON-RATED PARTITION

SCALE: 3" = 1'-0" 09.21.16.01_B NR PARTITION



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
C3	3 5/8"	4 7/8"	-	-	A,B
C3A	3 5/8"	4 7/8"	3 1/2"	-	A
C6	6"	7 1/4"	-	-	A,B
C6A	6"	7 1/4"	3 1/2"	-	A

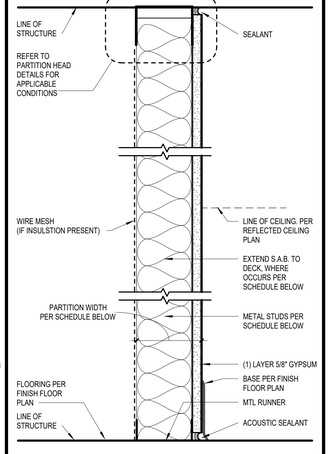
FIRE RATING: N/A

BASIS OF DESIGN: N/A

REMARKS:
A. STUD SPACING 16" O.C. MAX
B. OMIT SEALANT

C NON-RATED PARTITION

SCALE: 3" = 1'-0" 09.21.16.01_C NR PARTITION



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
D1	1 5/8"	2 1/4"	-	-	A,B
D3	3 5/8"	4 1/4"	-	-	A,B
D3A	3 5/8"	4 1/4"	3 1/2"	-	A
D6	6"	6 5/8"	-	-	A,B
D6A	6"	6 5/8"	3 1/2"	-	A

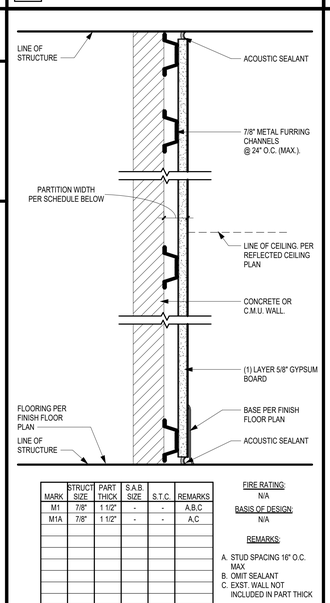
FIRE RATING: N/A

BASIS OF DESIGN: N/A

REMARKS:
A. STUD SPACING 16" O.C. MAX
B. OMIT SEALANT

D NON-RATED PARTITION

SCALE: 3" = 1'-0" 09.21.16.01_D NR PARTITION



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
M1	7/8"	1 1/2"	-	-	A,B,C
M1A	7/8"	1 1/2"	-	-	A,C

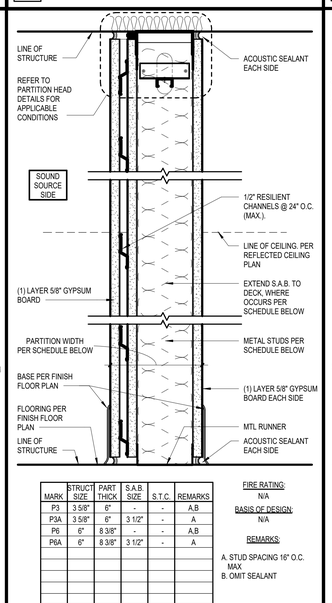
FIRE RATING: N/A

BASIS OF DESIGN: N/A

REMARKS:
A. STUD SPACING 16" O.C. MAX
B. OMIT SEALANT
C. EXST. WALL NOT INCLUDED IN PART THICK

M 1 1/2" FULL HT. FURRED PART.

SCALE: 3" = 1'-0" 09.21.16.01_M FURRED PARTITION



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
P3	3 5/8"	6"	-	-	A,B
P3A	3 5/8"	6"	3 1/2"	-	A
P6	6"	8 3/8"	-	-	A,B
P6A	6"	8 3/8"	3 1/2"	-	A

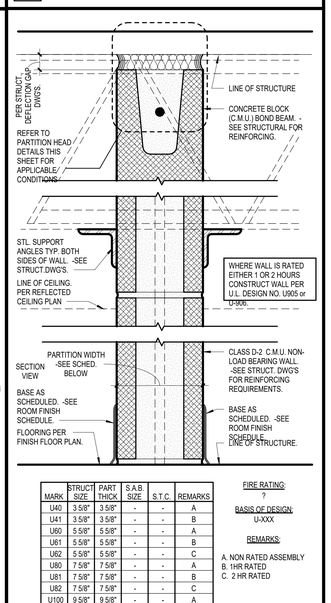
FIRE RATING: N/A

BASIS OF DESIGN: N/A

REMARKS:
A. STUD SPACING 16" O.C. MAX
B. OMIT SEALANT

P FULL HT. ACCOUSTIC PART.

SCALE: 3" = 1'-0" 09.21.16.01_P NR PARTITION



MARK	STRUCT SIZE	PART THICK	S.A.B. SIZE	S.T.C.	REMARKS
U40	3 5/8"	3 5/8"	-	-	A
U41	3 5/8"	3 5/8"	-	-	B
U60	5 5/8"	5 5/8"	-	-	A
U61	5 5/8"	5 5/8"	-	-	B
U62	5 5/8"	5 5/8"	-	-	C
U80	7 5/8"	7 5/8"	-	-	A
U81	7 5/8"	7 5/8"	-	-	B
U82	7 5/8"	7 5/8"	-	-	C
U100	9 5/8"	9 5/8"	-	-	A
U101	9 5/8"	9 5/8"	-	-	B
U102	9 5/8"	9 5/8"	-	-	C

FIRE RATING: ?

BASIS OF DESIGN: U-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" 04.22.00.01_U CMU PARTITION

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Roy A. Mandel
03/15/24
MO Architect License No: A-6661
Expires: 12/31/24

[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

PARTITION TYPES / DETAILS

Project No. 22135

Sheet No. A500

Date 03/15/2024

3/21/2024 2:15:43 PM
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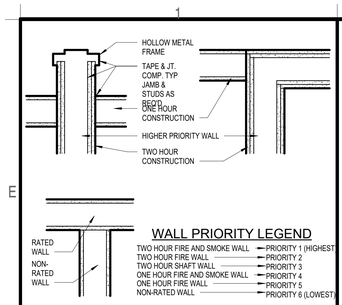
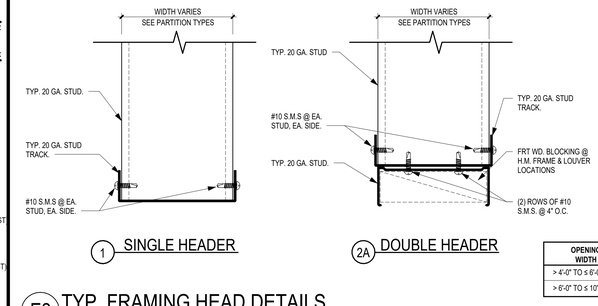
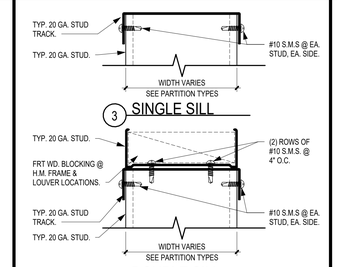


E1 WALL PRIORITIES (RATED WALLS)
N.T.S. 09.21.06.00A WALL PRIORITIES

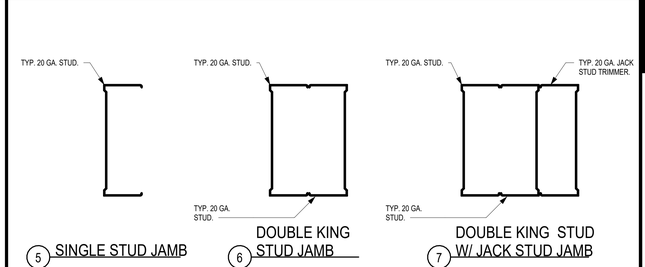


OPENING WIDTH	HEAD DETAIL
> 4'-0" TO ≤ 6'-0"	2A
> 6'-0" TO ≤ 10'-0"	2B

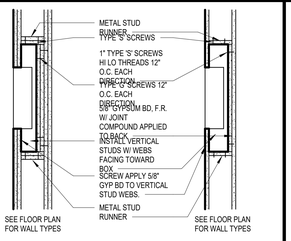
E2 TYP. FRAMING HEAD DETAILS
HALF SCALE 09.22.16 TYP. HEAD DETAILS_2W X 1H



E5 TYP. FRAMING SILL DETAILS
HALF SCALE 09.22.16 TYP. SILL DETAILS_1W X 1H

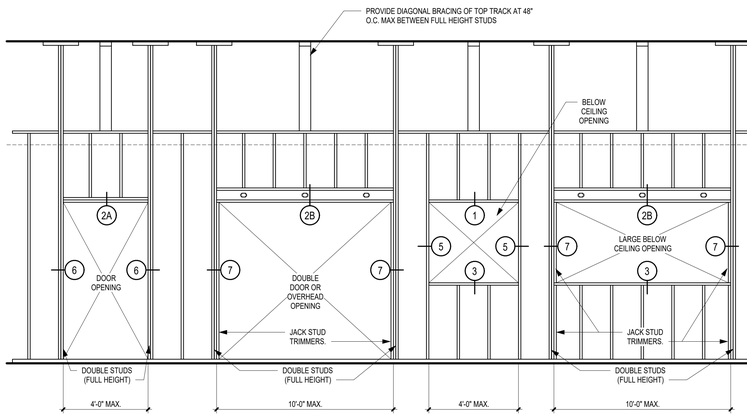


E6 TYP. FRAMING JAMB DETAILS
HALF SCALE 09.22.16 TYP. JAMB DETAILS_2W X 1H

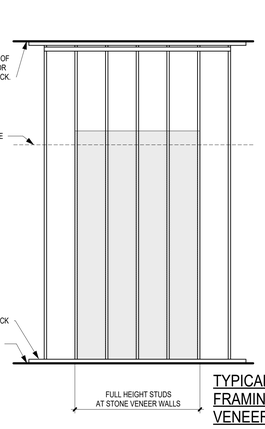


NOTE:
1. TYPICAL FOR FIRE EXTINGUISHER CABINETS, RECESSED TOILET ACCESSORIES & MECH/ ELECTRICAL RECESSED SERVICE BOXES AT RATED WALLS.
2. TYP AT ALL FIXTURES AND BOXES OVER 100 SQUARE INCHES AT RATED WALLS.

D1 RATED WALL FIXTURE/BOX RECESS
N.T.S. 09.21.16.00B RTD WALL OPNG



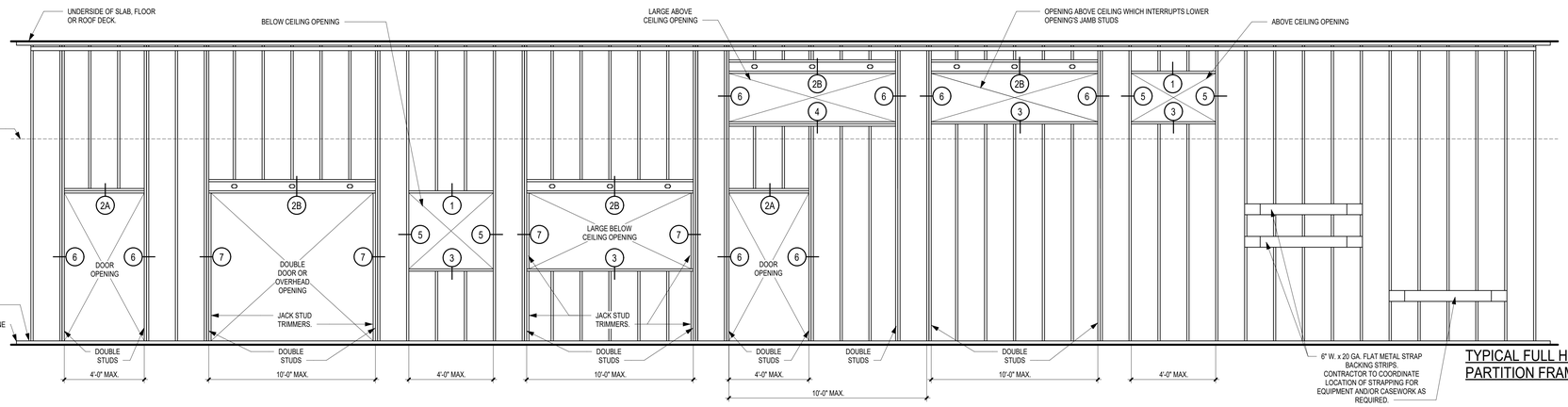
TYPICAL (NON-BEARING) BRACED PARTITION FRAMING ELEVATION



TYPICAL (LOAD-BEARING) PARTITION FRAMING ELEVATION @ STONE VENEER

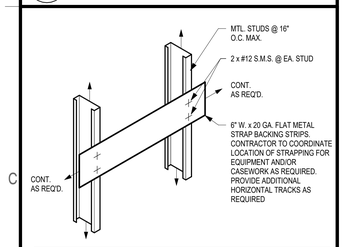
GENERAL FRAMING NOTES:

1. ALL STUDS ARE SPACED 16" O.C. (MAX).
2. ALL METAL STUD FRAMING TO BE 22 GA. UNLESS NOTED OTHERWISE. PROJECTS WITHIN SEISMIC ZONES D, E, & F, MINIMUM STUD GUAGE IS 20.
3. ALL STUDS SHALL BE "C" STUDS W/ 1/4" FLANGE MINIMUM
4. METAL STUD MANUFACTURER TO PROVIDE BRIDGING AS REQUIRED AT ALL INTERIOR PARTITIONS.
5. IN NO INSTANCE SHALL DOUBLE STUDS BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
6. DOTTED HATCHING DENOTES STONE VENEER.
7. STONE VENEER SHALL NOT BE ATTACHED DIRECTLY TO SHAFT WALLS. PROVIDE ADDITIONAL FURRING FOR STONE BACK-UP.
8. AT STONE WALLS, WHERE STONE EXCEEDS 10'-0" IN HEIGHT, OR IF THE SELECTED STONE IS GRAVITY SUPPORTED BY THE STUDS, THE STUD FRAMING SHALL BE ENGINEERED BY THE STUD MANUFACTURER.



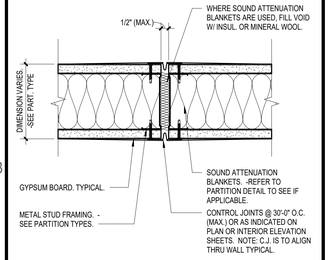
TYPICAL FULL HEIGHT (NON-BEARING) PARTITION FRAMING ELEVATION

B2 TYPICAL INTERIOR PARTITION FRAMING ELEVATIONS
3/8" = 1'-0" 09.22.16 TYP INT PARTITION FRAMING ELEV_6W X 3H

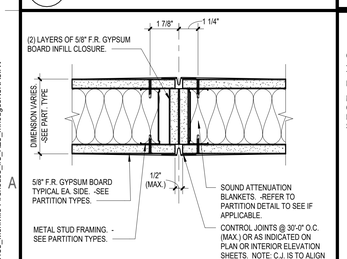


NOTE:
PROVIDE ANCHOR STRIPS AT MILLWORK/CASEWORK, CORRIDOR WALL GUARDS, TACKBOARDS, MARKERBOARDS, HANDRAILS, TOILET ACCESSORIES, ETC. FOR ATTACHEMENT TO WALL. (F.R.T. 2X WOOD BACKING IS ALSO ACCEPTABLE IN LIEU OF 20 GA. MTL. STRAPPING).

C1 TYPICAL WALL BACKING DETAIL
N.T.S. 06 41 00.01 WALL BACKING DET_1W X 1H

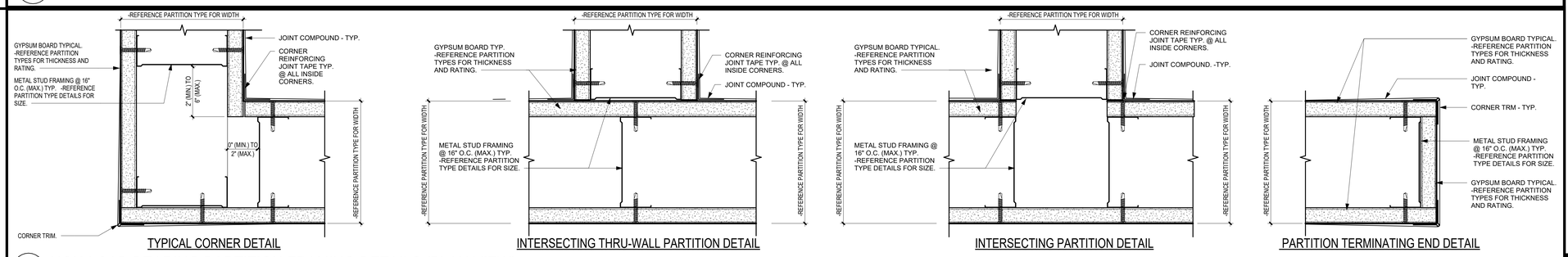


B1 TYP. INTERIOR CONTROL JOINT (NON-RATED) "CJ-01"
3" = 1'-0" 09 21 16.00 CJ01



PLAN VIEW

A1 TYP. INTERIOR CONTROL JOINT (1 HR. RATED) "CJ-02"
3" = 1'-0" 09 21 16.00 CJ02



A2 NON-LOAD BEARING PARTITION FRAMING DETAILS (PLAN VIEW)
6" = 1'-0" 09.22.16 GYP BOARD PARTITION TERMINATION DET_6W X 3H

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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"

STATE OF MISSOURI
ROY A. MANDOZZI
NUMBER A-6661
ARCHITECT
03/15/24
Roy A. Mandozzi
MO Architect License No: A-6661
Expires: 12/31/24

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision
1		

INTERIOR PARTITION FRAMING

Project No. 22135
Sheet No. A501
Date 03/15/2024

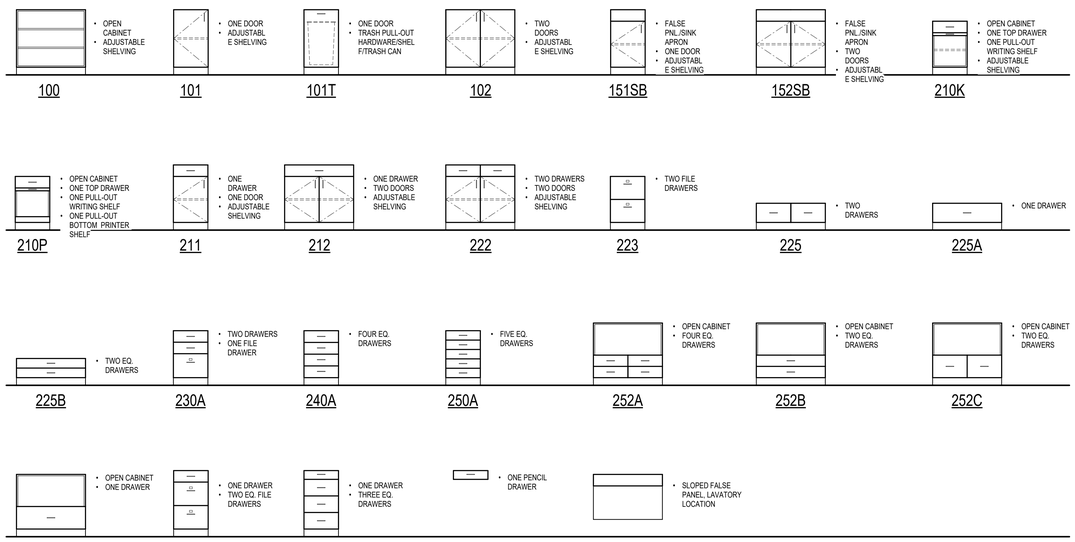
TYPICAL CABINETRY TYPES ELEVATIONS

CABINETRY TYPES ELEVATIONS 36X42 8WX2H

BASE CABINETS

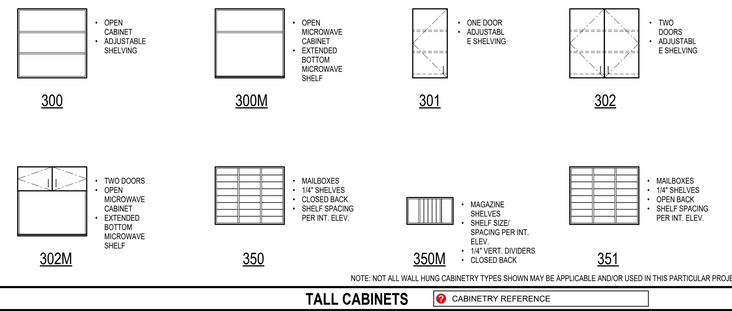
CABINETRY REFERENCE

NOTE: NOT ALL BASE CABINETRY TYPES SHOWN MAY BE APPLICABLE AND/OR USED IN THIS PARTICULAR PROJECT.



WALL HUNG CABINETS

CABINETRY REFERENCE

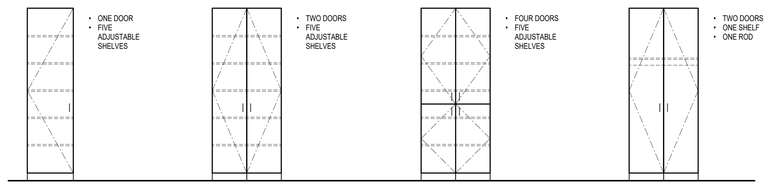


NOTE: NOT ALL WALL HUNG CABINETRY TYPES SHOWN MAY BE APPLICABLE AND/OR USED IN THIS PARTICULAR PROJECT.

TALL CABINETS

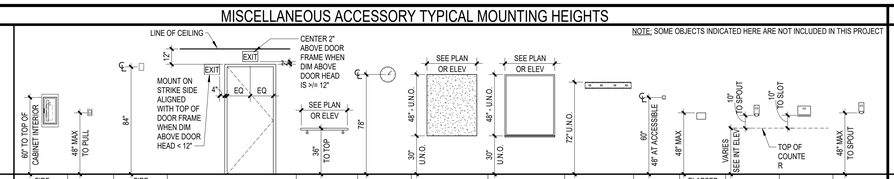
CABINETRY REFERENCE

NOTE: NOT ALL TALL CABINETRY TYPES SHOWN MAY BE APPLICABLE AND/OR USED IN THIS PARTICULAR PROJECT.



MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

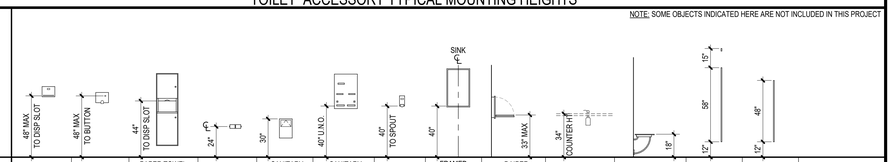
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



FINISH FLOOR																
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

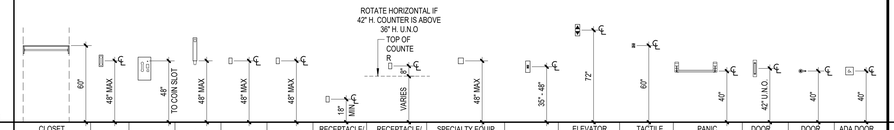
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



FINISH FLOOR														
ACCESSORY TYPE	PAPER TOWEL DISPENSER	POWER HAND DRYER	PAPER TOWEL DISPENSER & TRASH RECEPTACLE	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	SEMI RECESSED	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



FINISH FLOOR														
ACCESSORY TYPE	CLOSET HANGAR ROD & SHELF	WALL PHONE	TELEPHONE HOUSING	CUP DISPENSER	WALL SWITCH	TELEPHONE OUTLET	RECEPTACLE/ TELEPHONE/ DATA	RECEPTACLE/ TELEPHONE/ DATA	SPECIALTY EQUIP (IE. 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

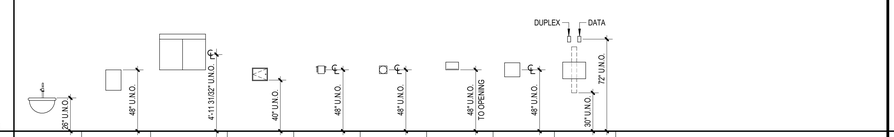
PLUMBING FIXTURE TYPICAL MOUNTING HEIGHTS

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

FINISH FLOOR											
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

HEALTHCARE ACCESSORY TYPICAL MOUNTING HEIGHTS

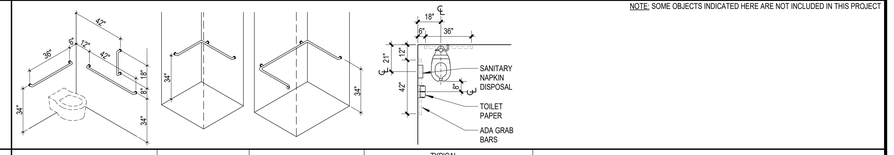
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



FINISH FLOOR									
ACCESSORY TYPE	CLINIC SINK	SHARPS CONTAINER	FILM ILLUMINATOR	SPECIMEN PASS-THRU	OTOSCOPE	SPHYGMOMAN-OMETER	GLOVE BOX	MED-GAS SHUT OFF	WALL HUNG COMPUTER
COMMENTS	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	THRU-WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

GRAB BAR TYPICAL MOUNTING HEIGHTS & TOILET ACCESSORY PLANS

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



FINISH FLOOR				
ACCESSORY TYPE	ADA TOILET GRAB BAR	SHOWER STALL GRAB BAR	ROLL-IN SHOWER STALL GRAB BAR	TYPICAL ACCESSORIES AT ACCESSIBLE TOILET
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	NOTE: SANITARY NAPKIN DISPOSAL AT WOMEN'S & UNISEX ONLY

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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STATE OF MISSOURI — ROY A. MARSDEN — A-6661 — ARCHITECT
Roy A. Marsden
03/15/24
MO Architect License No: A-6661
Expires: 12/31/24

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Proposed:

Mehlville Fire House No 5

11020 MUELLER ROAD

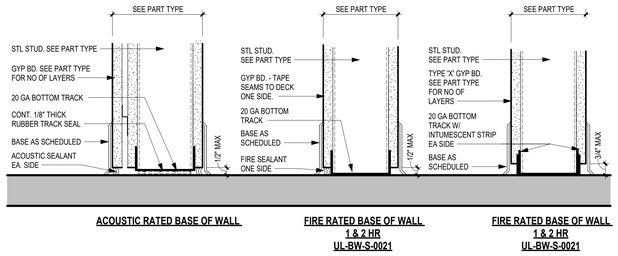
No.	Date	Revision

TYP. MOUNTING HTS/ CABINET DTLS

Project No. 22135

Sheet No. A502

Date 03/15/2024

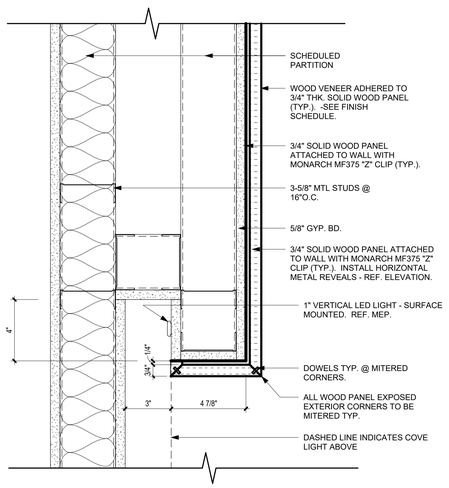


ACOUSTIC RATED BASE OF WALL

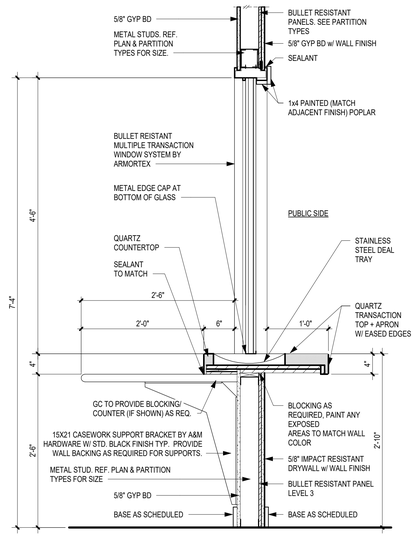
FIRE RATED BASE OF WALL 1 & 2 HR UL-BW-S-0021

FIRE RATED BASE OF WALL 1 & 2 HR UL-BW-S-0021

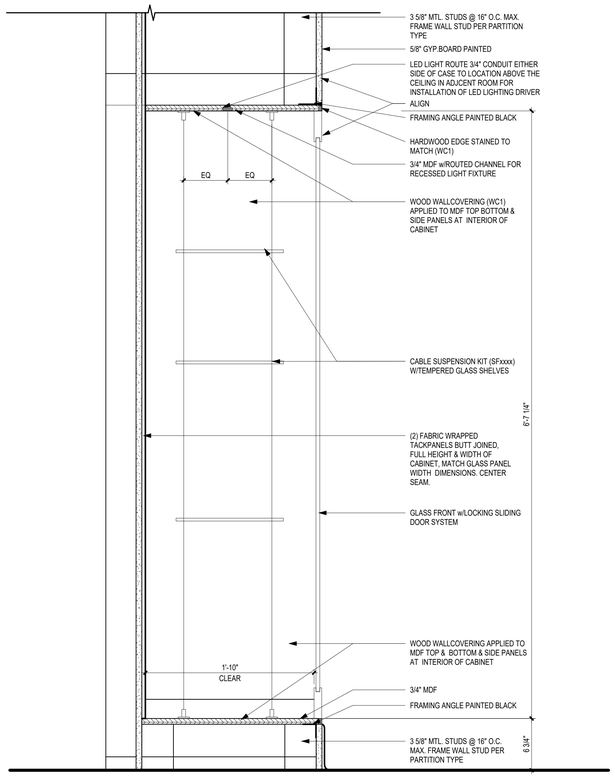
E1 BASE OF WALL DETAILS
3" = 1'-0"



E4 DAIS - LIGHT COVE w/ WOOD PANEL
3" = 1'-0"

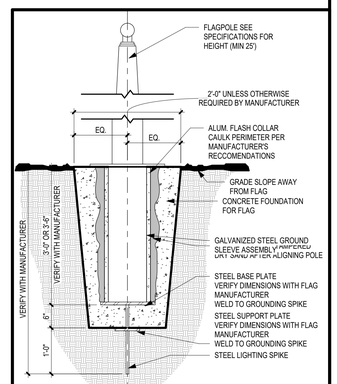


E5 RECEPTION WINDOW
1" = 1'-0"



E6 DISPLAY CABINET SECTION
1 1/2" = 1'-0"

D4 PARTITION @ WINDOW
3" = 1'-0"



NOTE: "FLAG POLE MANUFACTUREER/SUPLIER IS PROVIDE THE DESIGN OF THE FLAGPOLE AND FOUNDATION UNDER DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER EXPERIENCED IN DESIGN OF THIS WORK AND LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. PROVIDE SIGN/SEALED DOCUMENTS AND CALCULATIONS TO ARCHITECT FOR PERMITTING."

A7 FLAGPOLE DETAIL
3/4" = 1'-0"
FLAGPOLE DETAIL

STATE OF MISSOURI
ROY A. MANDEL
ARCHITECT
A-6661
03/15/24
Roy A. Mandel
MO Architect License No: A-6661
Expires: 12/31/24

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

DETAILS / SPECIAL PROFILES

Project No.
22135

Sheet No.
A503

Date
03/15/2024

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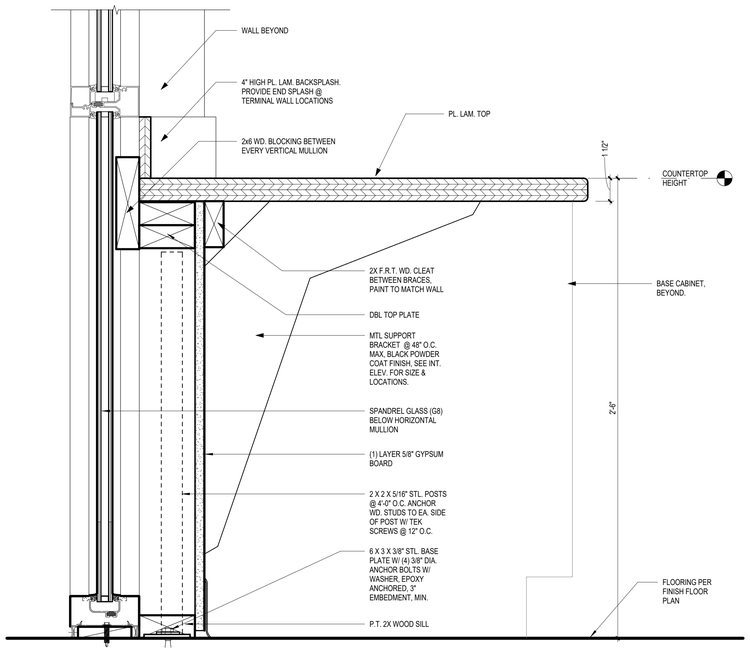
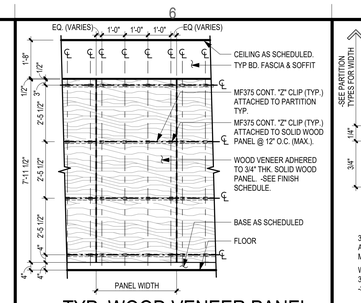
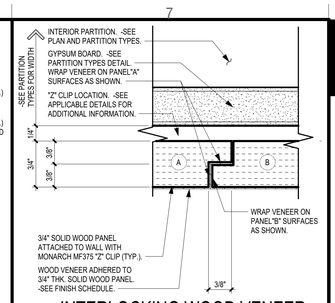


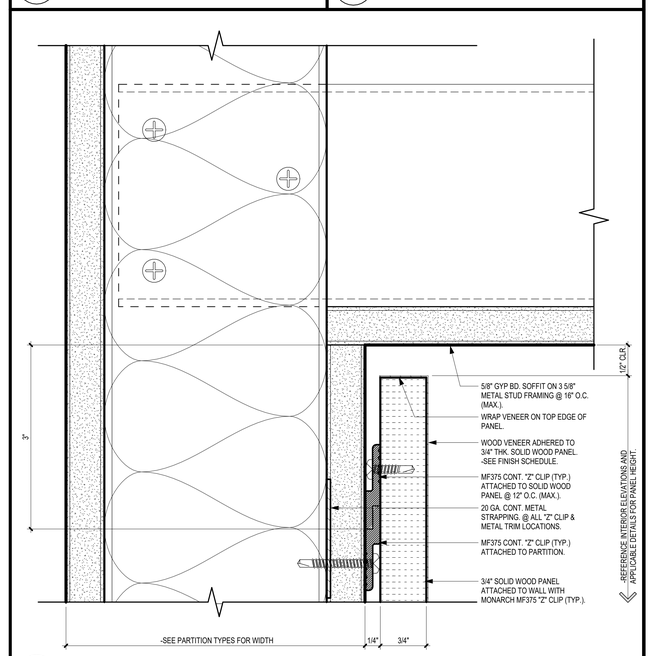
E4 DETAIL @ DESK/ STOREFRONT
3" = 1'-0"



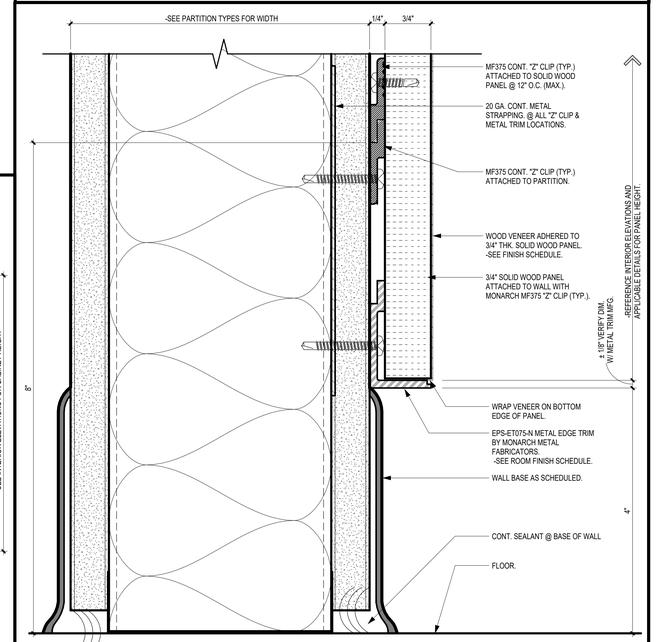
E6 TYP. WOOD VENEER PANEL ELEVATION
3/8" = 1'-0"
06.42.16_WOO PNL EL_1W X 1H



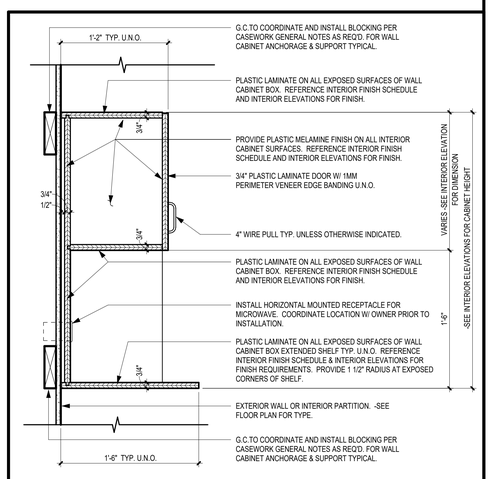
E7 INTERLOCKING WOOD VENEER VERTICAL PANEL JOINT DET.
FULL SCALE
06.42.16 WOOD PNL VERT JT 1W X 1H



C6 WOOD VENEER PANEL HEAD TERMINATION DETAIL
FULL SCALE
06.42.16 WOOD PNL HEAD TERM 2W X 2H



A6 WOOD VENEER PANEL BOTTOM TERMINATION DETAIL
FULL SCALE
06.42.16 WOOD PNL BOT TERM 2W X 2H



A5 TYPE 302M FIXED SHELF MICROWAVE WALL CAB. DET.
1 1/2" = 1'-0"
302M MICROWAVE WALL CABINET DETAIL_FIXED_1.5W X 1.5H

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

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ROY A. MARSHALL
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Roy A. Marshall
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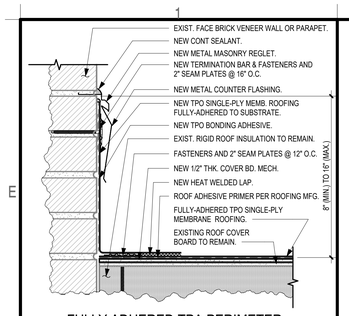
Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

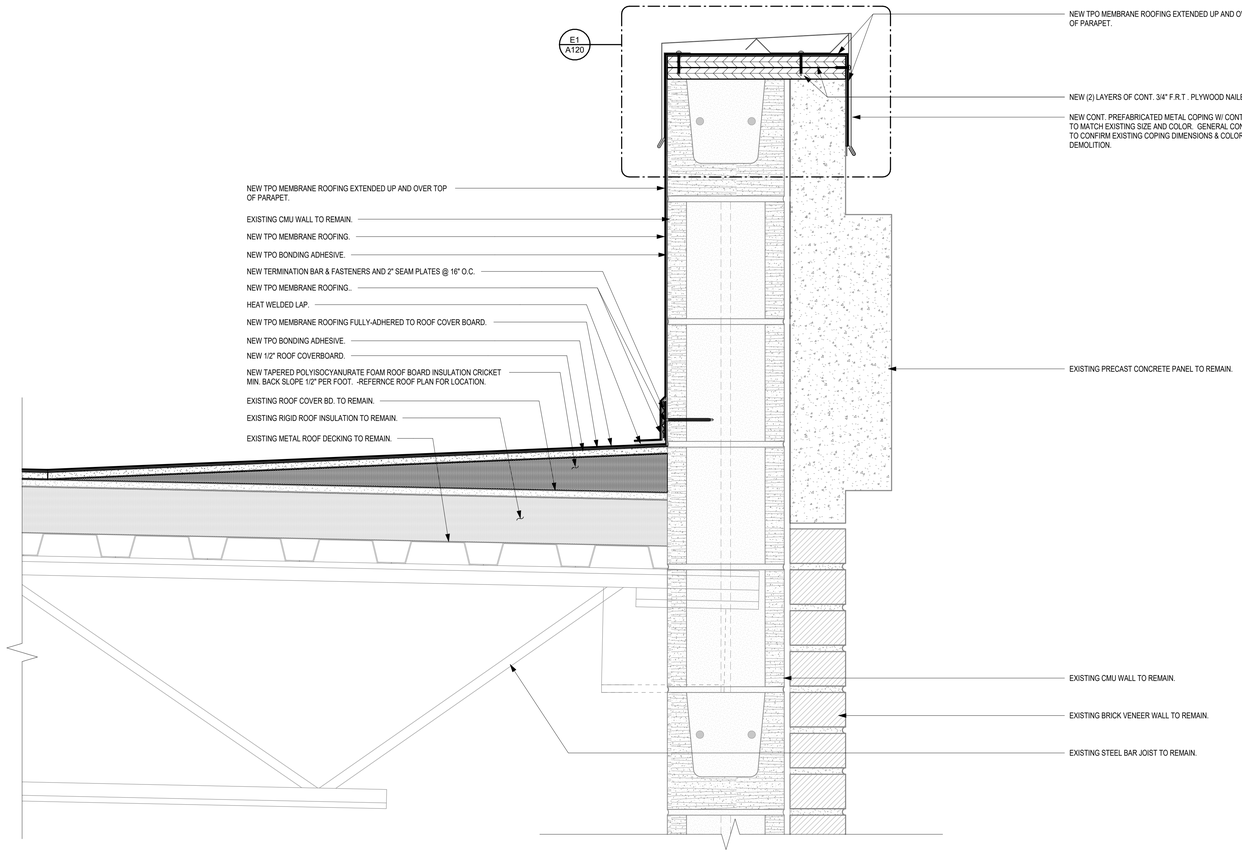
No.	Date	Revision

INTERIOR DETAILS

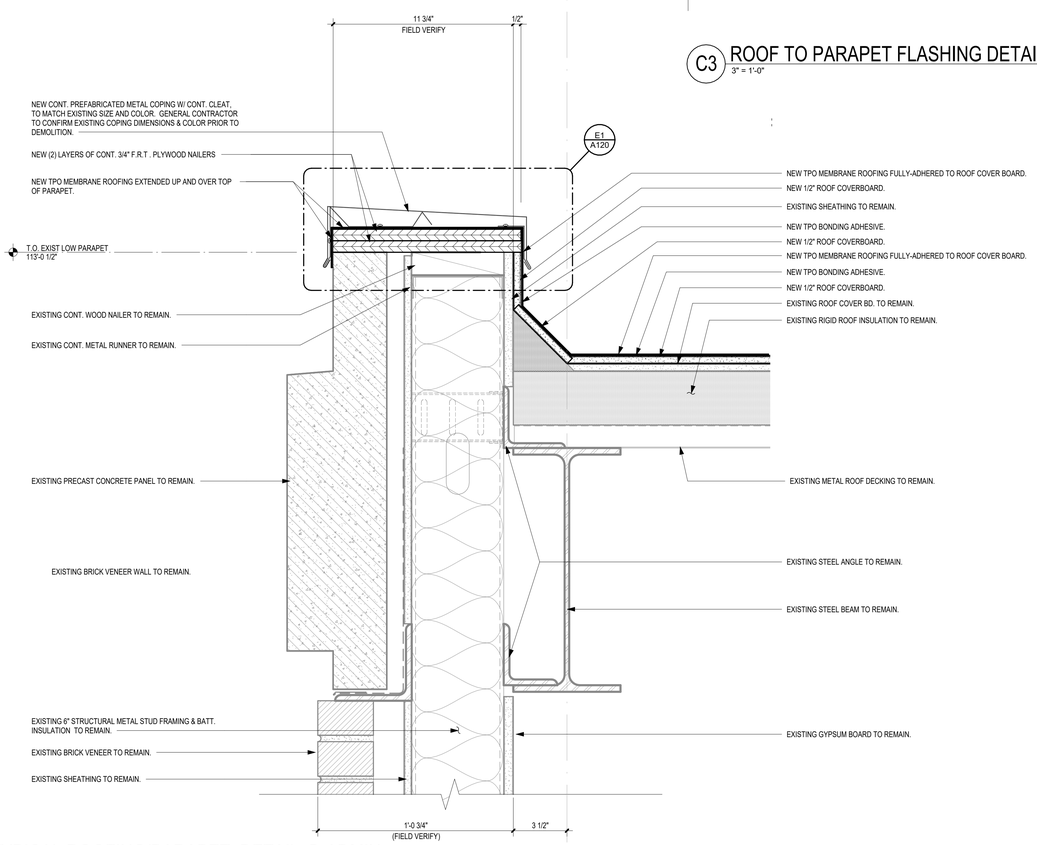
Project No. 22135
Sheet No. A504
Date 03/15/2024



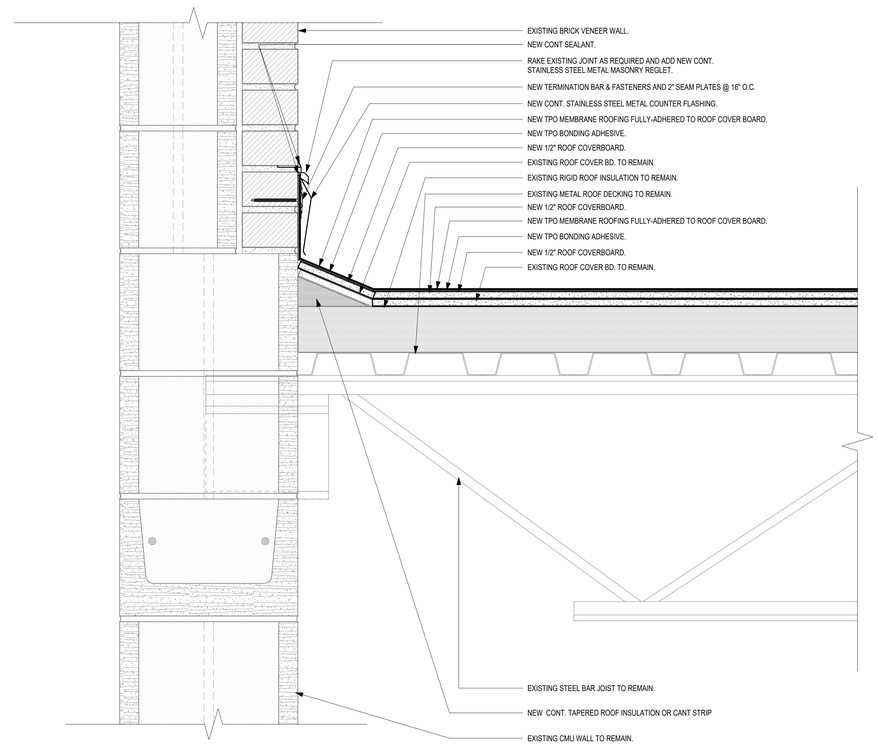
E1 FULLY ADHERED TPA PERIMETER BASE TIE-IN DETAIL @ REGLET
3" = 1'-0"
07.53.00 TPO TPO BRK MAS WALL REGLET FLASHING TIE-IN DET .1W X 1H



C3 ROOF TO PARAPET FLASHING DETAIL @ SOUTH APPARATUS WALL
3" = 1'-0"



A1 TYPICAL ROOFING/PARAPET DETAIL @ ADMIN.
3" = 1'-0"



A5 ROOF TO WALL FLASHING DETAIL @ MASONRY WALL
3" = 1'-0"

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

ROOF DETAILS

Project No. 22135

Sheet No. A510

Date 03/15/2024

3/21/2024 2:16:05 PM
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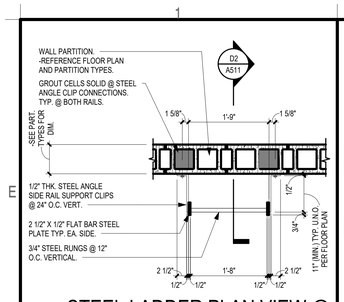
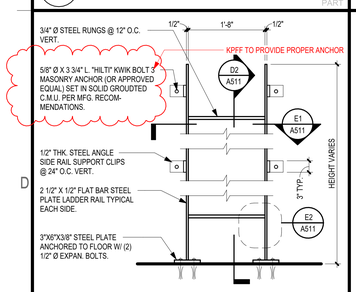
SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 1' 6" 3" 0
SCALE: 1" = 1'-0" 2" 1' 6" 0
SCALE: 3/4" = 1'-0" 3" 2" 1" 0
SCALE: 1/2" = 1'-0" 4" 2" 1" 0
SCALE: 3/8" = 1'-0" 8" 4" 2" 0
SCALE: 1/4" = 1'-0" 8" 4" 2" 0
SCALE: 1/8" = 1'-0" 16" 8" 4" 0
SCALE: 3/32" = 1'-0" 24" 16" 8" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0



STEEL LADDER PLAN VIEW @ C.M.U. MAS. WALL/PARTITION

E1 3/4" = 1'-0"

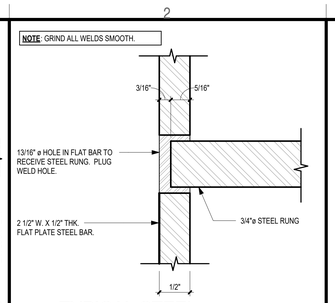
05.51.33.02A STEEL LADDER PLAN CMU PART



STEEL LADDER FRONT ELEV.

D1 3/4" = 1'-0"

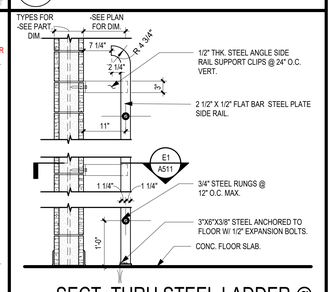
05.51.33.01 STEEL LADDER ELEV.



TYPICAL STEEL LADDER RUNG DETAIL

E2 FULL SCALE

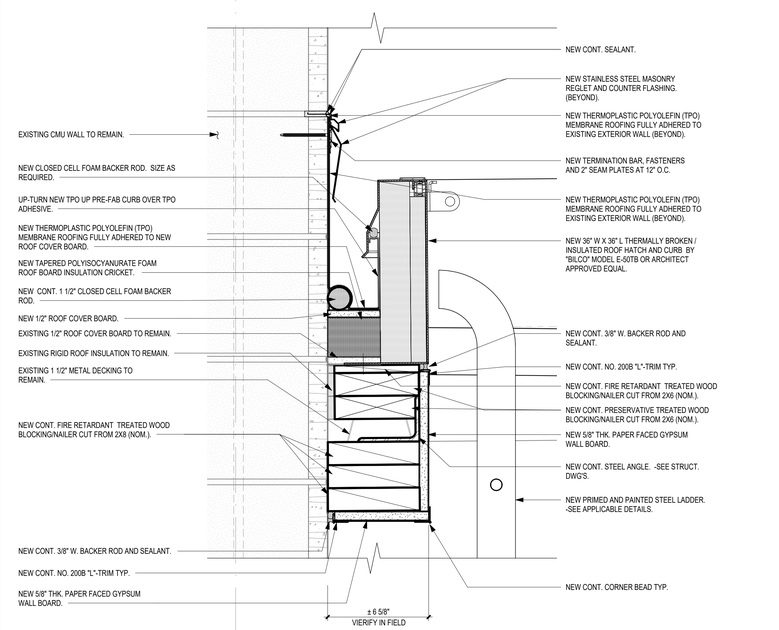
05.51.33.04 STEEL LADDER RUNG DET



SECT. THRU STEEL LADDER @ C.M.U. MAS. WALL/PARTITION

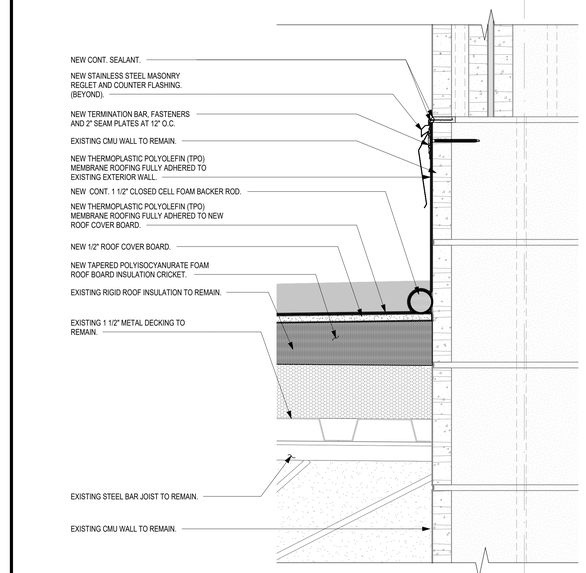
D2 3/4" = 1'-0"

05.51.33.03A STEEL LADDER SECT @ CMU PART



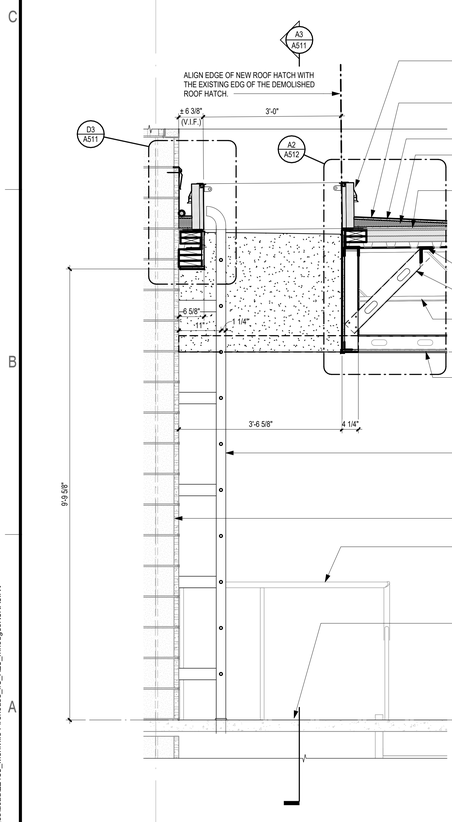
ENLARGED ROOF SCUTTLE DETAIL 02

D3 3" = 1'-0"



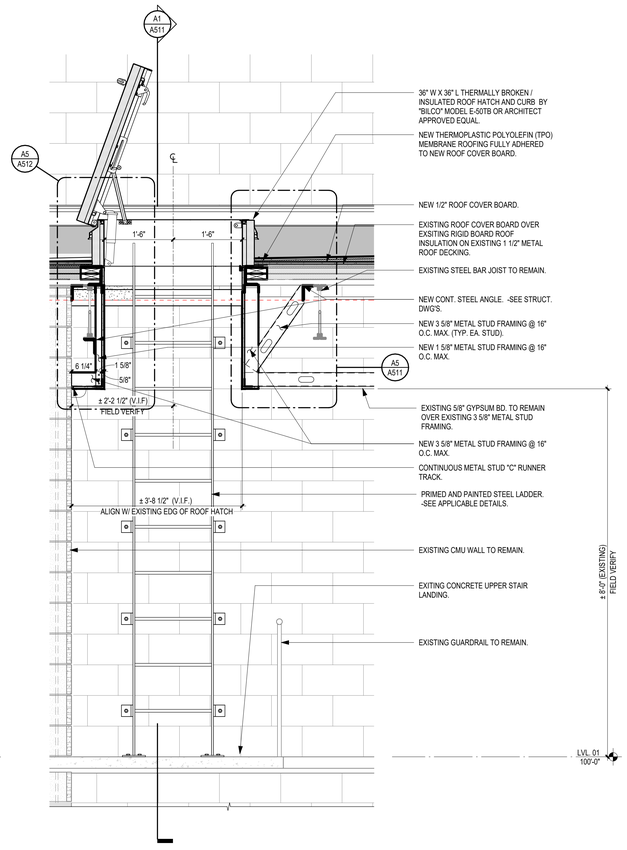
ROOF BASE FLASHING DETAIL @ 1969 HOUSE SOUTH WALL

D6 3" = 1'-0"



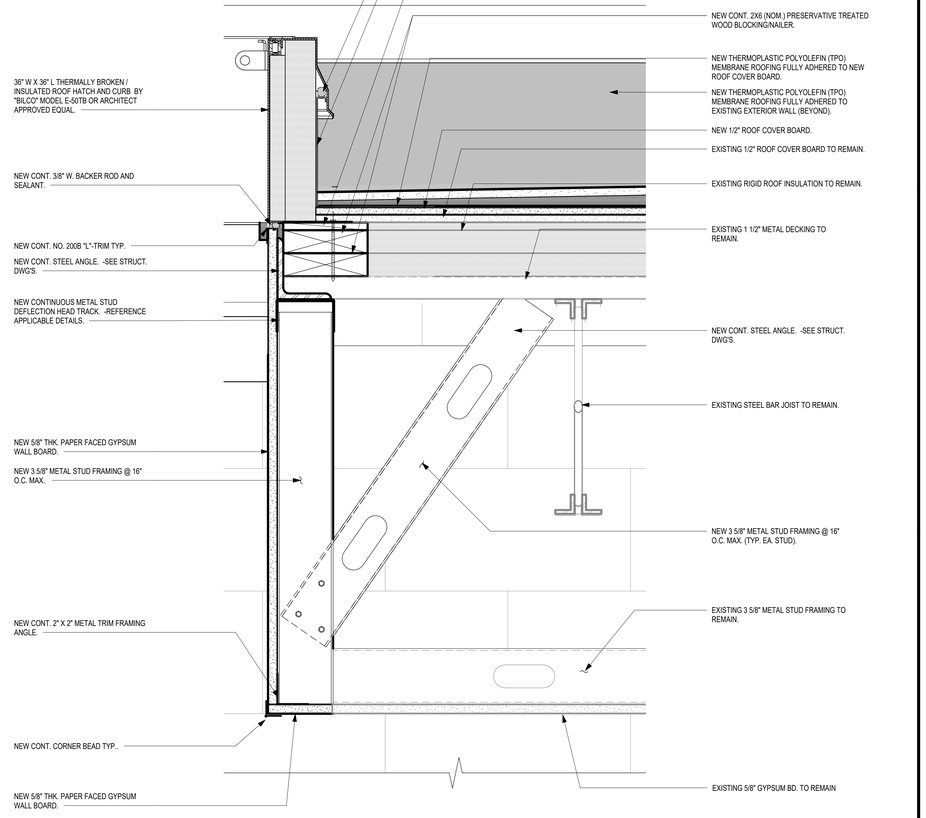
ROOF SCUTTLE SECTION 01

A1 3/4" = 1'-0"



ROOF SCUTTLE SECTION 02

A3 3/4" = 1'-0"



ENLARGED ROOF SCUTTLE DETAIL 01

A5 3" = 1'-0"

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Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision
1		

ROOF SCUTTLE & LADDER DETAILS

Project No. 22135

Sheet No. A511

Date 03/15/2024

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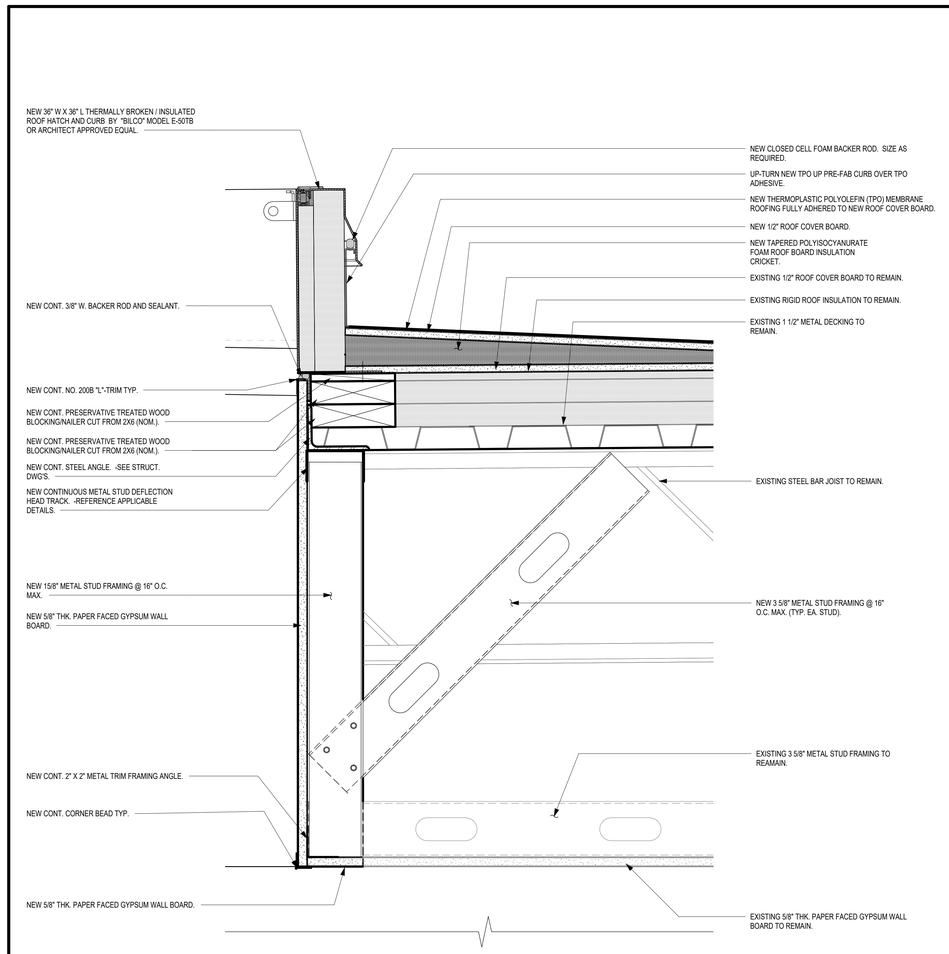
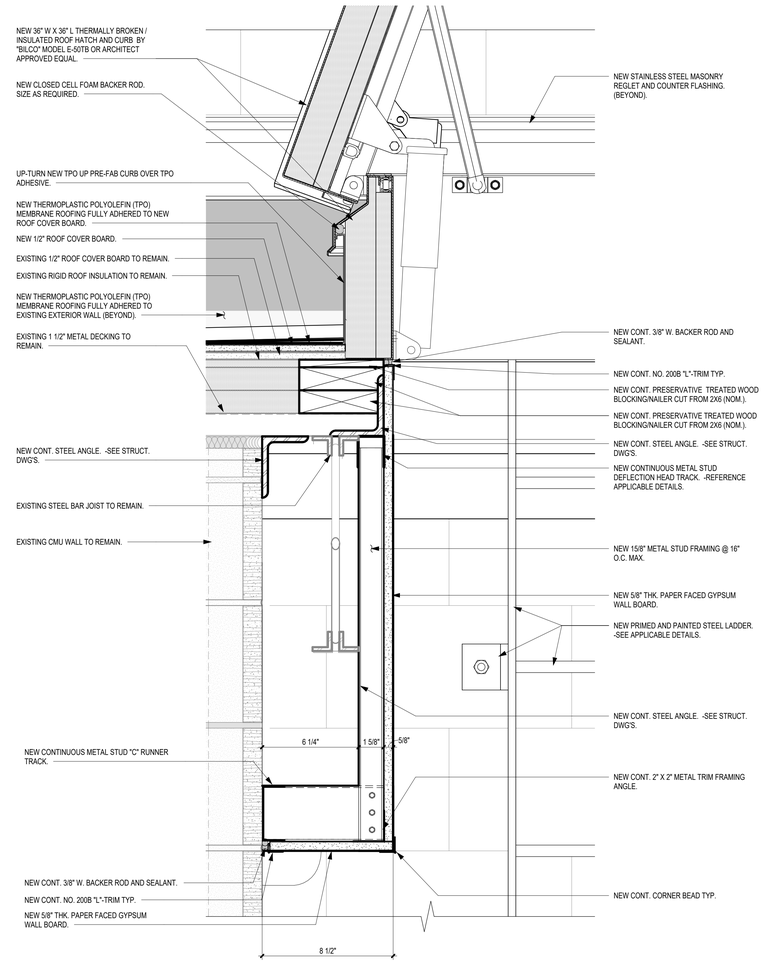


A2 ENLARGED ROOF SCUTTLE DETAIL 04
3" = 1'-0"



A5 ENLARGED ROOF SCUTTLE DETAIL 03
3" = 1'-0"

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

ROOF SCUTTLE DETAILS

Project No.
22135

Sheet No.
A512

Date
03/15/2024

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

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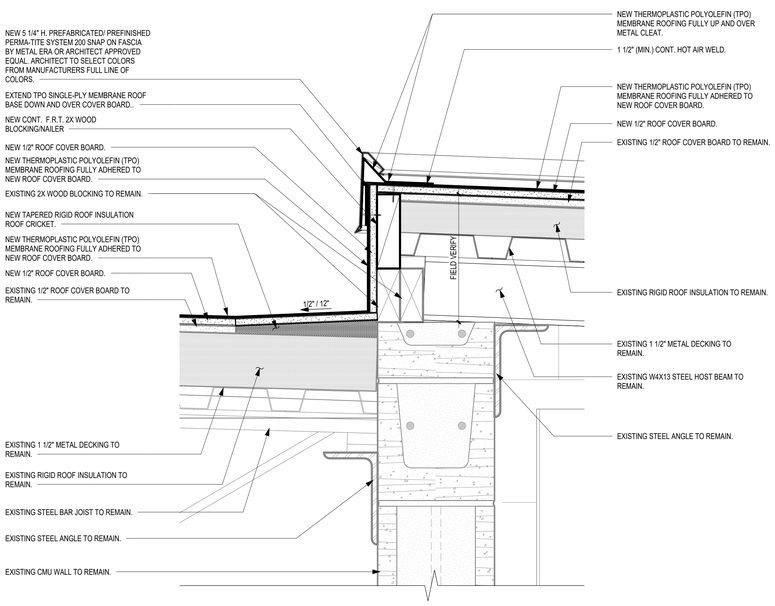
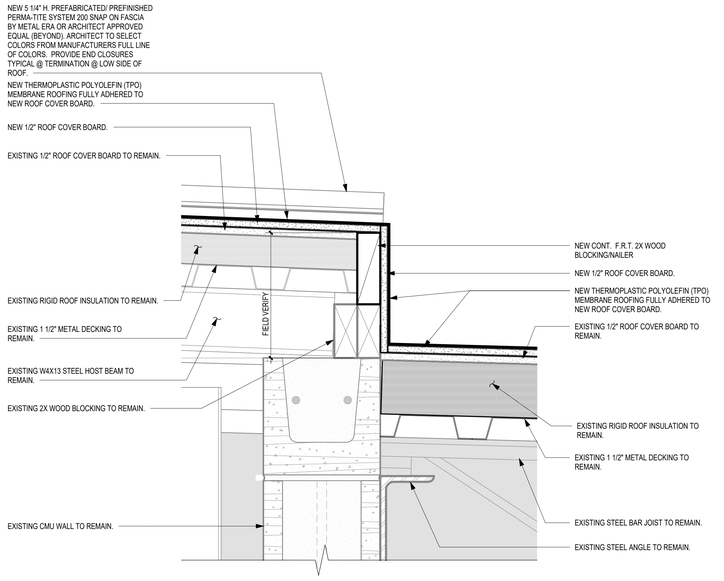
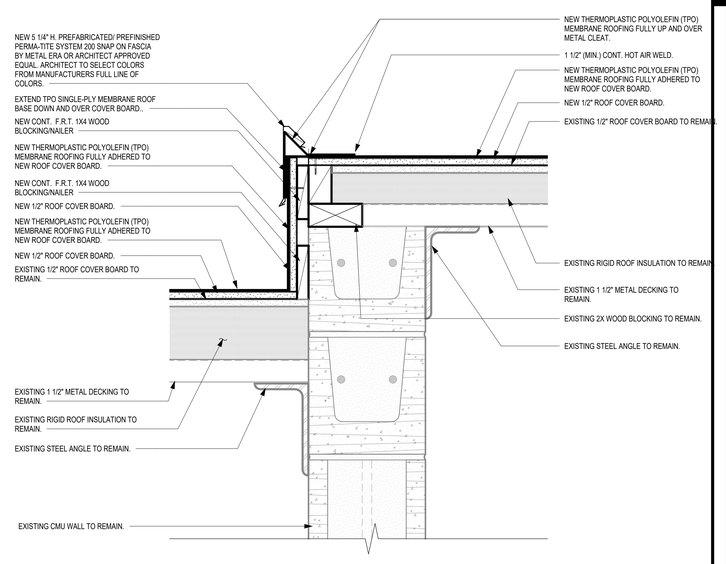


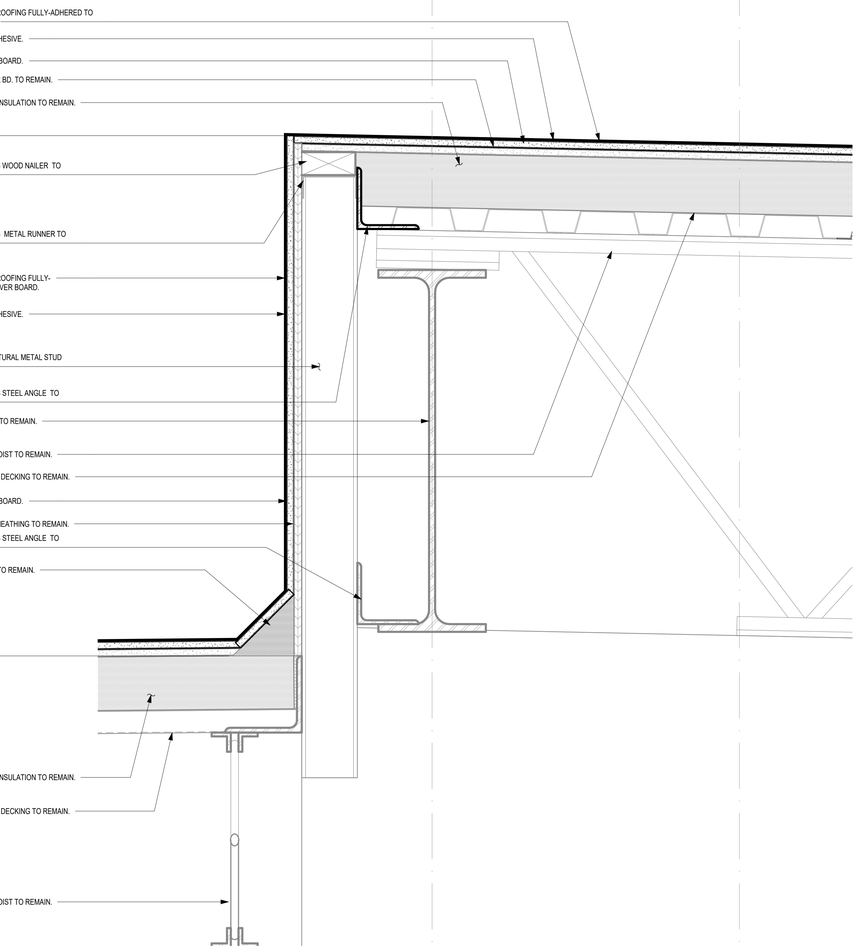
D1 ELEVATOR ROOF DETAIL (HIGH SIDE)
3" = 1'-0"



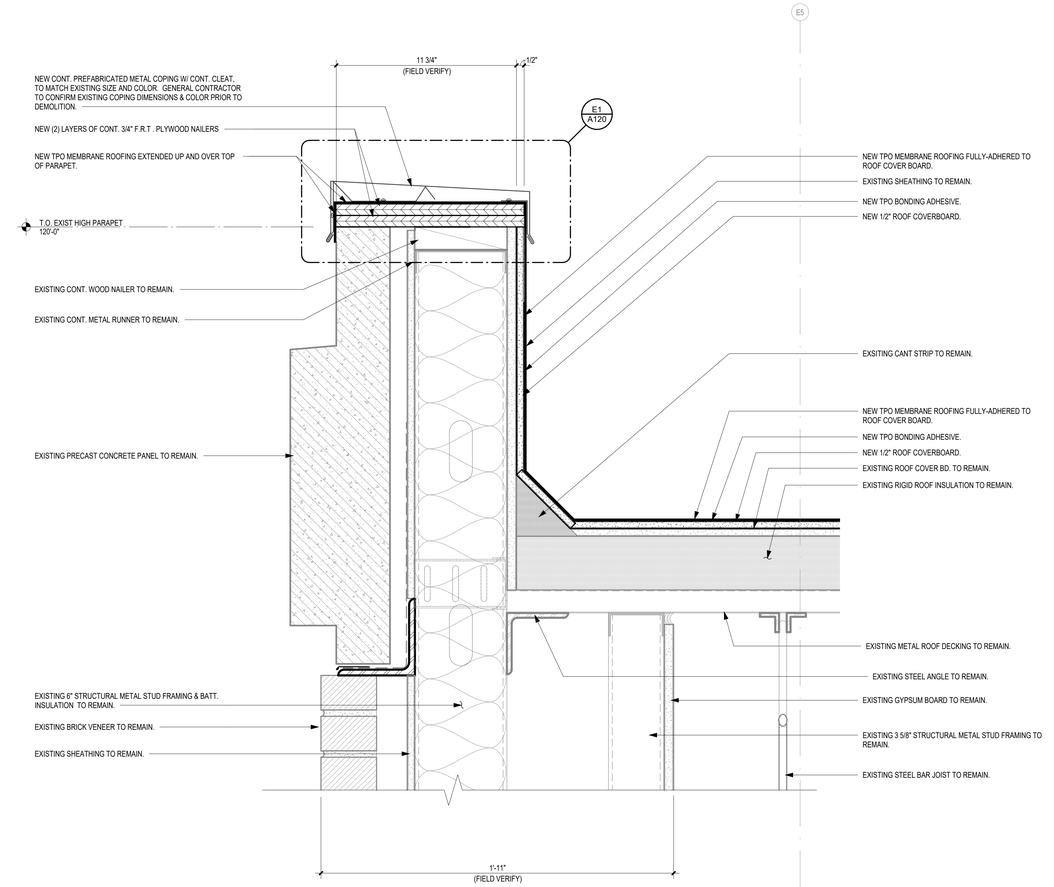
D4 ELEVATOR ROOF DETAIL (LOW SIDE)
3" = 1'-0"



D6 ELEVATOR ROOF DETAIL (RAKED SIDES)
3" = 1'-0"



1 ROOF DETAIL @ APPARATUS ROOF STEP DOWN
3" = 1'-0"



A4 APPARATUS PARAPET/ROOFING DETAIL (WEST WALL)
3" = 1'-0"

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

ROOF DETAILS

Project No. 22135

Sheet No. A513

Date 03/15/2024

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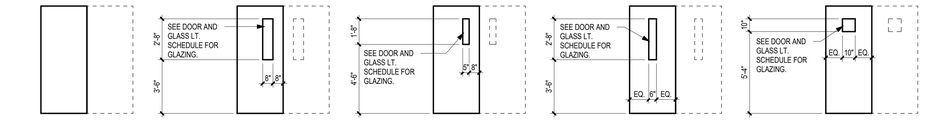
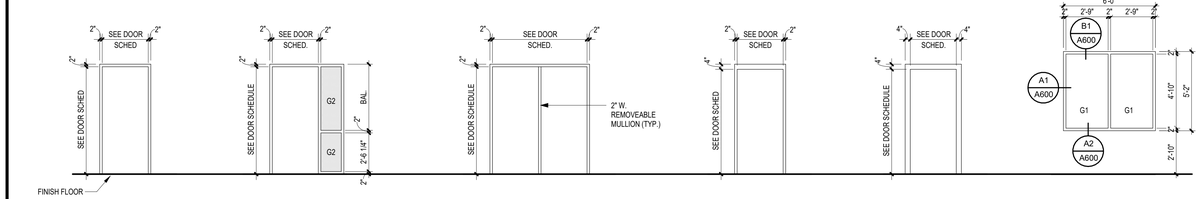


NOTE:
1. SOME DOOR TYPES MAY NOT BE USED ON THIS PARTICULAR PROJECT.
2. DOORS TO BE 1 3/4" THK. UNLESS OTHERWISE NOTED ON DOOR. SCHEDULE.
3. REFER TO DOOR SCHEDULE FOR GLASS TYPE AND THICKNESS.

D1 DOOR TYPE ELEVATIONS
1/4" = 1'-0"

08.10.00.01 DOOR TYPES ELEVATION



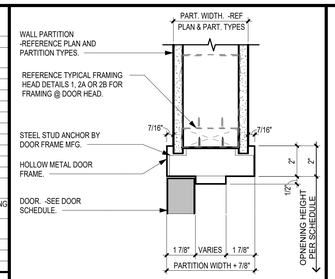
E4 DOOR FRAME TYPE ELEVATIONS
1/4" = 1'-0"

NOTE: ALL FRAME TYPE ELEVATIONS MAY NOT BE USED IN THIS PROJECT.

GLAZING LITE SCHEDULE

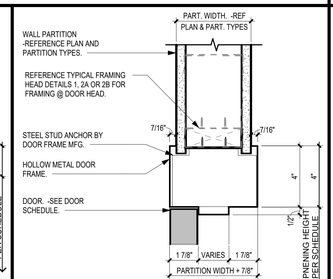
GLAZING TYPE	DESCRIPTION
-NOTE:	NOT ALL GLASS USED IN PROJECT. REFER TO DOOR SCHEDULE & WINDOW FRAME TYPES
G1	1/4" CLEAR GLAZING
G2	1/4" TEMPERED CLEAR GLAZING
~~G3~~	~~1/4" TEMPERED SOLAR GLAZING~~
~~G4~~	~~5/16" PREMIUM GRADE FIRE RATED GLASS CERAMIC SAFETY GLAZING~~
G5	1" INSULATED GLAZING
G6	1" TEMPERED INSULATED GLAZING
~~G7~~	~~1" INSULATED OBSCURE GLAZING~~
G8	1" INSULATED TEMPERED SPANDREL GLAZING
~~G9~~	~~5/8" PREMIUM GRADE 30 MIN. FIRE RATED SAFETY GLAZING~~
~~G10~~	~~1/4" CLEAR LAMINATED GLAZING~~
~~G11~~	~~1" INSULATED GLAZING W/ SATIN ETCHED (LEVEL 4) ACID STAIN ON SURFACE 2~~
~~G12~~	~~1" INSULATED GLAZING W/ SATIN ETCHED (LEVEL 4) ACID STAIN ON SURFACE 3~~
~~G13~~	~~1" LAMINATION SHIELDING GLAZING~~
G14	CHICKEN PLUS 1" INSULATED GLAZING W/ SAFEGARD GLASS
GE	EXISTING GLAZING

GLAZING SCHEDULE



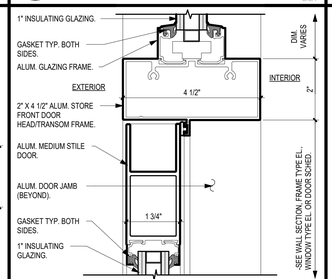
C2 TYPICAL HOLLOW METAL FRAME DOOR HEAD DETAIL
3" = 1'-0"

08.11.13.01_LG HM DOOR HEAD DETAIL



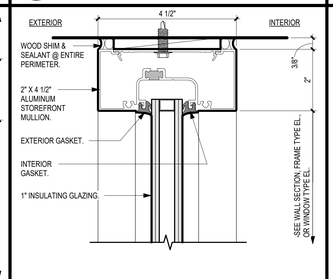
C3 TYPICAL HOLLOW METAL FRAME DOOR HEAD DETAIL
3" = 1'-0"

08.11.13.02_LG HM DOOR HEAD DETAIL



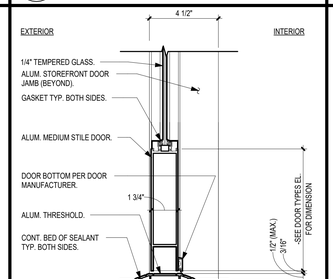
C4 ALUM. DOOR & STOREFRONT TRANSOM DETAIL
HALF SCALE

08.43.13.06A STOREFRONT INSUL DOOR TRANS DET



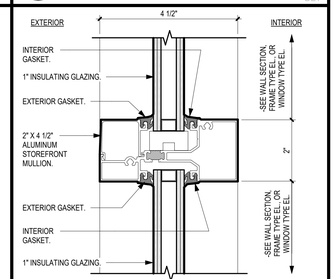
C5 ALUM. STOREFRONT HEAD TERMINATION DETAIL
HALF SCALE

08.43.13.08 HEAD TERM



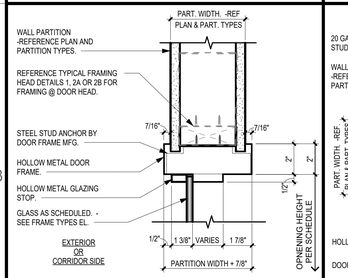
C6 ALUM. STOREFRONT DOOR SILL DETAIL W/ TEMPERED GLAZING
3" = 1'-0"

08.43.13.01A_DOOR SILL TEMPERED GLAZING



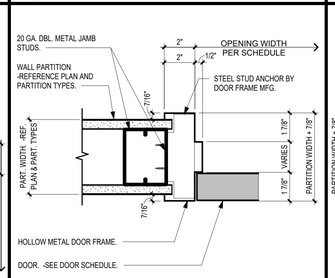
C7 TYP. HORIZONTAL STOREFRONT MULLION DETAIL
HALF SCALE

08.43.13.02 TYP HOR STOREFRONT MULLION



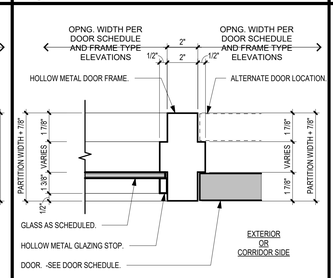
B1 TYPICAL HOLLOW METAL FRAME GLAZED HEAD DETAIL
3" = 1'-0"

08.11.13.01_LG HM GLAZED HEAD DETAIL



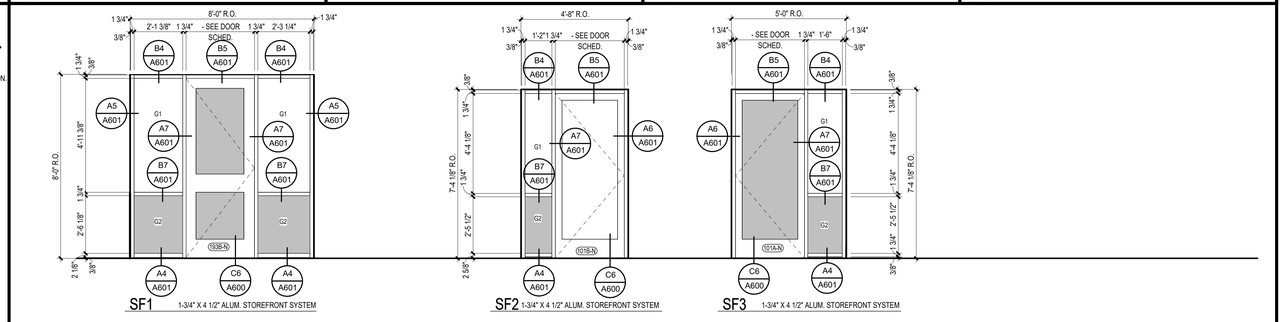
B2 TYPICAL HOLLOW METAL FRAME DOOR JAMB DETAIL
3" = 1'-0"

08.11.13.01_LG HM DOOR JAMB DETAIL

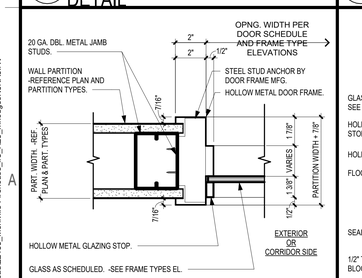


B3 TYP. HOLLOW METAL FRAME DOOR JAMB DET. W/ SIDE LT.
3" = 1'-0"

08.11.13.01_LG HM DOOR JAMB DET. W/ SIDES

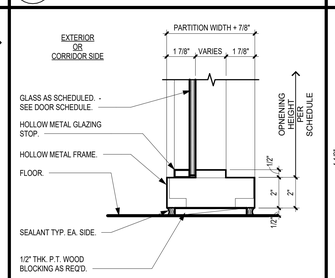


B4 STOREFRONT ELEVATIONS
1/4" = 1'-0"



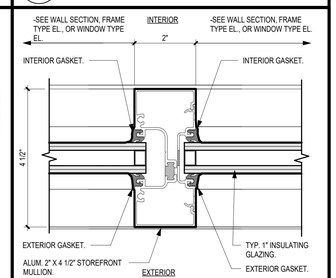
A1 TYPICAL HOLLOW METAL FRAME GLAZED JAMB DETAIL
3" = 1'-0"

08.11.13.01_LG HM GLAZED JAMB DETAIL



A2 TYPICAL HOLLOW METAL FRAME GLAZED SILL DETAIL
3" = 1'-0"

08.11.13.01_LG HM SILL GLAZED DETAIL



A3 TYP. VERTICAL STOREFRONT MULLION DETAIL
HALF SCALE

08.43.13.03 TYP VERT STOREFRONT MULLION

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STATE OF MISSOURI ROY ALAN MINDEL NUMBER A-6661 ARCHITECT
03/15/24
Roy A. Mindel
MO Architect License No: A-6661
Expires: 12/31/24

[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

DOOR / WINDOW TYPES

Project No. 22135
Sheet No. A600
Date 03/15/2024

3/21/2024 2:16:30 PM
C:\Users\mhodges\acad\22135_Mehlville Firehouse_#5_R23_mhodgesN8NA9.rvt

DOOR SCHEDULE

MARK	Pair	WIDTH	HEIGHT	THICK	FRAME PROPERTIES						DOOR PROPERTIES				FIRE RATING	HARDWARE GROUP	COMMENTS
					FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB		TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING			
100A	PR	2'-11"	7'-2 5/16"	1 3/4"		ALUM	BRNZ. ANOD.				FG3	ALUM	BRNZ. ANOD.	GE			5
101D		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-FG1-	WD	ST1	GE	0		1
104		3'-0"	7'-0"	1 3/4"	EX WD	WD	P14				-FG1-	WD	ST1	GE	0		1
106B		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
107		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
108		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
109		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
111		3'-0"	7'-0"	1 3/4"	EX WD	WD	P14				-F-	WD	ST1	None	0		1
112		3'-0"	7'-0"	1 3/4"	EX WD	WD	P14				-F-	WD	ST1	None	0		1
113		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
114		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
115A		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
115B	PR	2'-6"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
117		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
119		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	HM	P2	None	0		1
124		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
126		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
128A		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
128B	PR	3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
128C	PR	3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
130A		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
130B		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
132		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
133		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
134A		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
134B		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
137		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
140		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
142		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
146		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
148		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
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155		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
156		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
157		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
159		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
163		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-V-	HM	P2	GE	0		3
164A		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-N2-	HM	P2	GE	0		3
164B		3'-0"	7'-2"	1 3/4"	EX HM	HM	P2				-N2-	HM	P2	GE	0		7
164C		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-N2-	HM	P2	GE	0		3
164D		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-N2-	HM	P2	GE	0		3
164E		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	HM	P2	None	0		3
164G		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-V-	HM	P2	None	0		3
166	PR	3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-N2-	HM	P2	GE	0		3
167		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-N2-	HM	P2	GE	0		3
168		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-N2-	HM	P2	GE	0		3
169		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
170		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
171		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
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178		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
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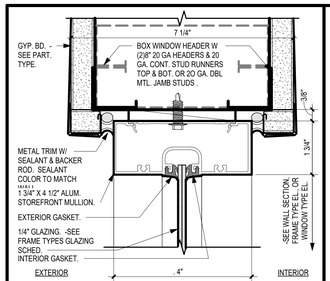
179A	PR	3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
179B	PR	3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
180		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
182		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
183		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
186		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
187		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
B116		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		6
B125		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		6
B128		3'-0"	7'-0"	1 3/4"	EX HM	HM	P2				-F-	WD	ST1	None	0		1
100B-N	PR	3'-0 1/8"	7'-0 3/16"	1 3/4"	SF4	ALUM	CLR. ANOD	B4/A601	A5/A601		FG3	ALUM	CLR. ANOD	G2			2
101A-N		3'-0"	7'-2"	1 3/4"	SF3	ALUM	CLR. ANOD	B4/A601	A5/A601		FG3	ALUM	CLR. ANOD	G2			2
101B-N		3'-0"	7'-2"	1 3/4"	Fxx	ALUM					FG3	ALUM	ANOD	G-xx			
101C-N		3'-0 5/16"	7'-2"	1 3/4"	SF5	ALUM	CLR. ANOD	B4/A601	A5/A601		FG3	ALUM	CLR. ANOD	G2			2
102A-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
102B-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
102C-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
106A-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
118-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
120A-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
120B-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
141-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
144-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
154-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
160-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
161-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
162-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
164F-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	HM	P2	None	0		
164H-N							PAINT				OH-01	MTL			0		8
164I-N							PAINT				OH-01	MTL			0		8
164K-N							PAINT				OH-01	MTL			0		8
164L-N							PAINT				OH-01	MTL			0		8
185-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
189-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
190-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
191-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		
193A-N		3'-0"	7'-10"	1 3/4"	SF6	ALUM	BRNZ. ANOD.	C5/A600	D6/A600		-FG4-	ALUM	BRNZ. ANOD.	G2			4
193B-N		3'-0"	7'-10 3/16"	1 3/4"	SF1	ALUM	CLR. ANOD.	B4/A601	A5/A601		-FG4-	ALUM	CLR. ANOD.	G2			
B127-N		3'-6"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	HM	P2	None	0		
B129-N		3'-0"	7'-0"	1 3/4"	F01	HM	P2	C2/A600	B2/A600		-F-	WD	W1	None	0		

DOOR SCHEDULE NOTES

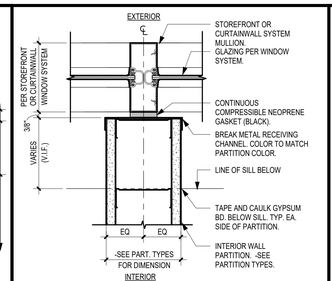
1. BASE BID: RE-STAIN EXISTING DOOR, EXISTING HARDWARE TO REMAIN. ALTERNATE: REMOVE EXISTING DOOR, SALAVAGE AND REINSTALL EXISTING HARDWARE ON NEW DOOR PANEL. NEW SOLID CORE WOOD DOOR, TYPE TO MATCH EXISTING. PROVIDE W1 FINISH.
2. REF. FRAME TYPE ELEVATIONS FOR ALL GLAZING TYPES.
3. PAINT EXISTING HOLLOW METAL DOOR AND FRAME - REF. SCHEDULE.
4. NEW EXTERIOR STOREFRONT TO BE BRONZE ANODIZED TO MATCH EXISTING.
5. EXISTING STOREFRONT TO REMAIN.
6. BASE BID: RESTAIN EXISTING DOOR, EXISTING HARDWARE TO REMAIN. ALTERNATE: REMOVE EXISTING DOOR, SALAVAGE AND REINSTALL EXISTING HARDWARE ON NEW DOOR PANEL. NEW SOLID CORE WOOD DOOR, TYPE TO MATCH EXISTING. PROVIDE W1 FINISH. WOOD TRANSOM PANEL TO MATCH WOOD DOOR.
7. PAINT ENTIRE HOLLOW METAL DOOR AND WINDOW SYSTEM.
8. NEW OVERHEAD DOOR IN APPARATUS BAY. DOOR HEIGHT AND WIDTH TO MATCH EXISTING - FIELD VERIFY BEFORE ORDERING. REF. SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTE: VERIFY ALL EXISTING FRAME AND DOOR TYPE MATERIALS - IF DISCREPANCIES OCCUR, NOTIFY ARCHITECT.



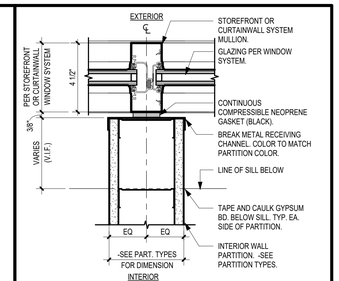
INTERIOR ALUM. STOREFRONT HEAD & JAMB TERMINATION DET.

C4 HALF SCALE 08.43.13.08A INT HEAD TERM



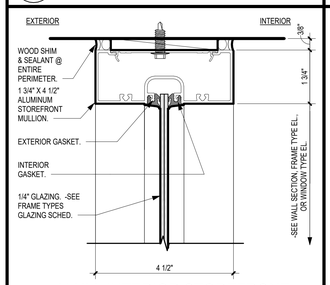
PARTITION TRANSITION DETAIL @ MULLION (ALIGNED)

C5 3" = 1'-0" 08.43.13.03 PART-MULLION TRANS DET 01



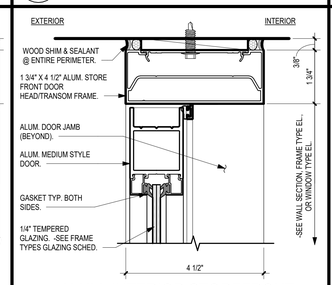
PARTITION TRANSITION DETAIL @ MULLION (ALIGNED)

C6 3" = 1'-0" 08.43.13.03 PART-MULLION TRANS DET 01 EXT SF



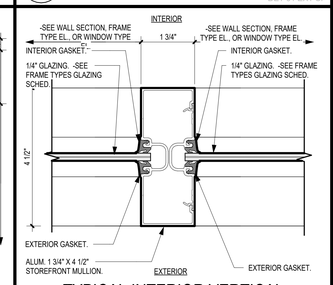
ALUM. INTERIOR STOREFRONT HEAD TERMINATION DETAIL

B4 HALF SCALE 08.43.13.08I HEAD TERM



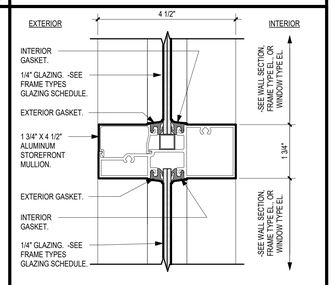
ALUM. INTERIOR STOREFRONT DOOR HEAD TERMINATION DET.

B5 HALF SCALE 08.43.13.15I DOOR HEAD TERM



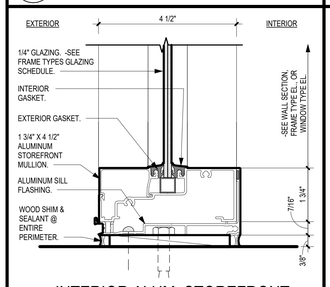
TYPICAL INTERIOR VERTICAL STOREFRONT MULLION DETAIL

B6 HALF SCALE 08.43.13.03 ITYP VERT STOREFRONT MULLION



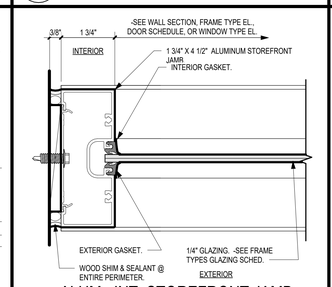
TYP. INTERIOR HORIZONTAL STOREFRONT MULLION DETAIL

B7 HALF SCALE 08.43.13.02I TYP HOR STOREFRONT MULLION



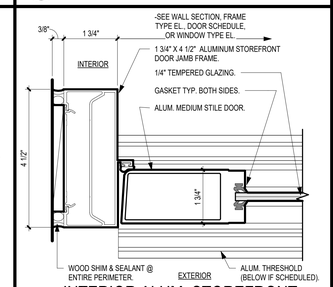
INTERIOR ALUM. STOREFRONT SILL TERMINATION DETAIL

A4 HALF SCALE 08.43.13.10I SILL TERM



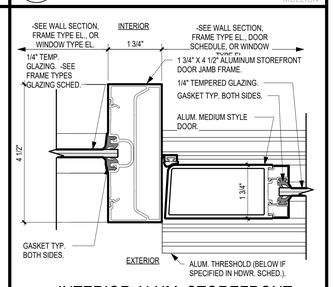
ALUM. INT. STOREFRONT JAMB DET. @ TERMINATING WALL COND.

A5 HALF SCALE 08.43.13.08I JAMB TERM



INTERIOR ALUM. STOREFRONT DOOR JAMB DETAIL @ WALL

A6 HALF SCALE 08.43.13.05I STOREFRONT TEMP DOOR JAMB DET



INTERIOR ALUM. STOREFRONT DOOR JAMB DETAIL @ SIDE LITE

A7 HALF SCALE 08.43.13.04I STOREFRONT TEMP DOOR JAMB DET

STATE OF MISSOURI
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03/15/24
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Proposed:
Mehlville Fire House No5
11020 MUELLER ROAD

No.	Date	Revision

DOOR SCHEDULE/STOREFRONT DET.

Project No. 22135

Sheet No. A601

Date 03/15/2024

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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"

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 HOLLOW METAL 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 P1 UNLESS NOTED OTHERWISE.
6. 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. ALL COUNTERTOPS TO HAVE 4" HIGH BACKSPLASH UNLESS NOTED OTHERWISE. ALL OUTSIDE CORNERS OF COUNTERTOP TO BE RADIUSED. ALL PLASTIC LAMINATE DOOR AND DRAWERS TO RECEIVE 1MM PVC EDGEBAND AND ALL COUNTERTOPS TO RECEIVE 3MM PVC OR T-MOLD EDGEBAND COLOR TO MATCH COUNTERTOP.
7. ALL HARDWARE TO BE BRUSHED STAINLESS STEEL FINISH UNLESS NOTED OTHERWISE.
8. ALL FLOORING TO RUN FROM PARTITION TO PARTITION, TYPICAL THROUGHOUT. ALL FLOOR MATERIALS MUST HAVE A SEAMLESS, SMOOTH TRANSITION AND MUST COMPLY WITH ADA GUIDELINES. ALL FLOORING CHANGES THAT OCCUR AT DOOR THRESHOLDS, TO BE CENTERED UNDER DOOR.
9. PROVIDE APPROPRIATE ADA COMPLIANT TRANSITION/REDUCER STRIPS TO MATCH FLOORING AT ALL FLOORING MATERIAL TRANSITIONS AS NEEDED UNLESS NOTED OTHERWISE.
10. ALL FLOORING PATTERN/ GRAIN TO RUN IN THE SAME DIRECTION THROUGHOUT UNLESS NOTED OTHERWISE. SEE FINISH FLOOR PLAN.
11. 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.
14. WHERE ANY MATERIAL TO REMAIN IS DAMAGED, G.C. TO PATCH/ REPAIR TO MATCH EXISTING ADJACENT MATERIAL.
15. G.C. TO PROTECT EXISTING FLOORING AND EXISTING FINISHES TO REMAIN. IF DAMAGED DURING CONSTRUCTION, PATCH TO MATCH ADJACENT MATERIAL AND CONSTRUCTION QUALITY.
16. ALL ELECTRICAL DEVICES AND FIXTURES THAT ARE EFFECTED BY NEW SCOPE OF WORK ARE TO BE RELOCATED TO THE FACE OF NEW WALL AND CEILING PANELS, WHERE REQUIRED.
17. ALL FLOOR SURFACES TO BE LEVELED PRIOR TO INSTALLATION OF NEW FLOOR FINISH MATERIAL PER MANUFACTURER'S RECOMMENDATIONS. EXISTING FLOOR SLAB TO REMAIN MUST BE PREPARED TO RECEIVE NEW FLOOR FINISH MATERIAL.
18. PROVIDE MOISTURE MITIGATION PER MANUFACTURER'S RECOMMENDATIONS. RE: SPECIFICATIONS FOR ADDITIONAL INFORMATION.
19. ALL NEW INTERIOR DOORS TO BE (W1), U.N.O.
20. RELOCATE FIRE STROBES, EXIT SIGNS AND ANY EXISTING FIXTURES AS REQUIRED FOR NEW WORK. PROVIDE/INSTALL ADDITIONAL WHERE REQUIRED BY CODE.
21. G.C. TO SUBMIT SHOP DRAWINGS FOR ALL NEW WINDOW TREATMENTS TO DESIGNER FOR APPROVAL PRIOR TO ORDER OF MATERIALS. INCLUDE ALL INSTALLATION, FREIGHT, TAX, HARDWARE, FITTINGS, FASTNERS AND FABRICS. SUBMIT MANUFAC. WARRANTY & INSTRUCTIONS FOR CLEANING & MAINTENANCE OF PRODUCTS, NO SUBSTITUTIONS. CONTRACTOR TO COORDINATE ALL INSTALLATION INCLUDING ADD'L BLOCKING AS REQ'D. IF ANY MODIFICATION TO DESIGN DUE TO EXISTING FIELD CONDITIONS, PLEASE CONTACT DESIGNER. MANF. TO FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
22. REFER TO FLOOR FINISH PLAN FOR ACCENT PAINT LOCATIONS. ALL PAINTED WALLS & DOOR FRAMES TO RECEIVE TWO COATS PER FINISH PAINT COLOR. HM DOORS TO BE PAINTED TO MATCH ADJACENT WALL U.N.O.
23. ADJUSTABLE SHELVING IS NOTED ON FLOOR PLAN, TO HAVE HEAVY DUTY WHITE MELAMINE SHELVES WITH WHITE PVC EDGES, MOUNTED ON WHITE HEAVY DUTY KV STANDARDS AND BRACKETS.
24. FLOORING SUB-CONTRACTOR TO ORDER TWO (2) BOXES OF EXTRA CARPET TILE EACH PATTERN FOR OWNERS FUTURE MAINTENANCE/ATTIC STOCK. COORDINATE DELIVERY/STORAGE OF BOX STOCK WITH OWNER.
25. ALL INTERIOR DIMENSIONS ARE TO FINISHED FACE OF GYP. BD. UNLESS NOTED OTHERWISE.
26. PAINT ALL WOOD DOOR FRAMES, TO REMAIN (P14), U.N.O.

FINISH SCHEDULE LEGEND

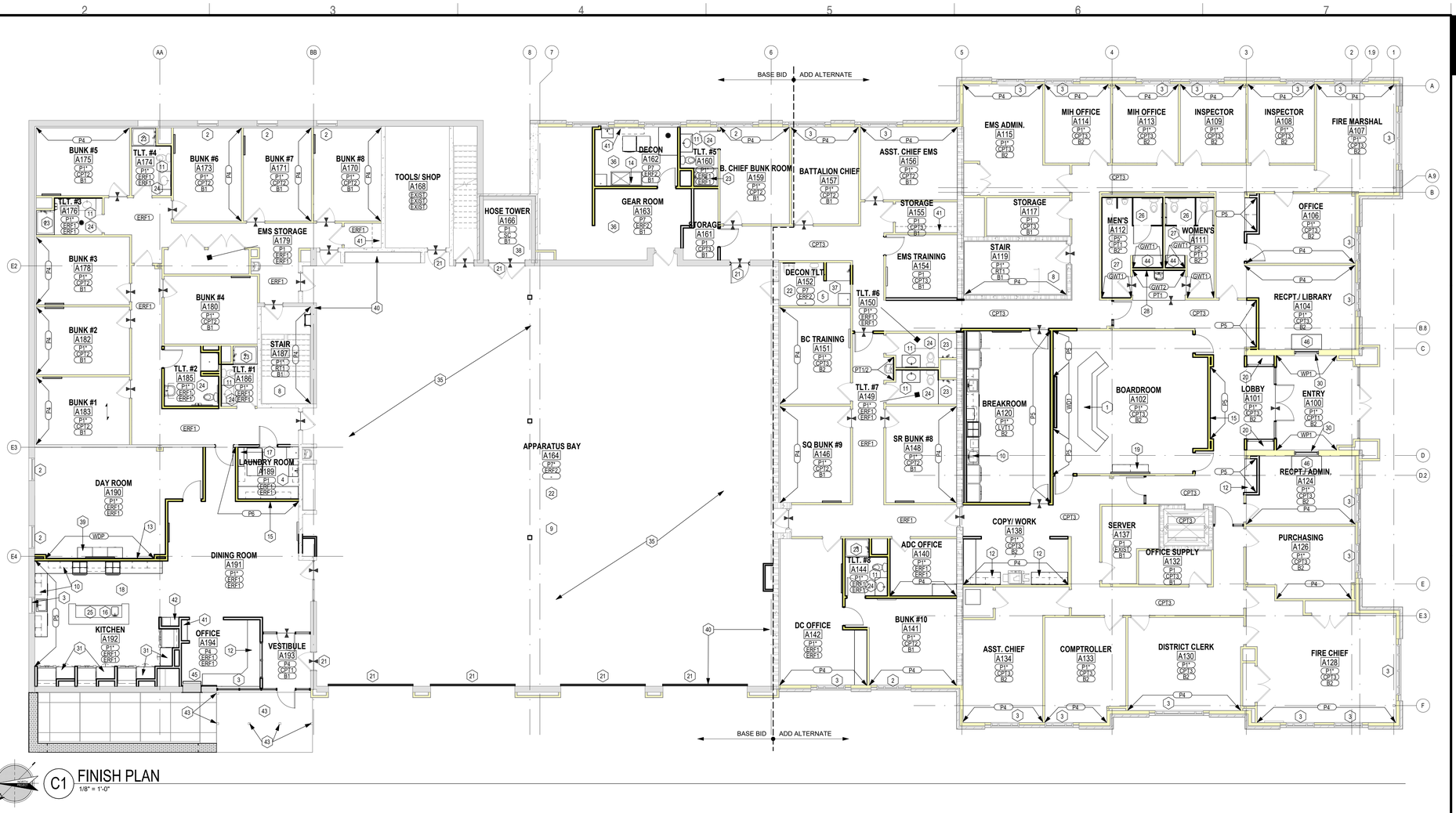
WALL FINISH ► F.X*
FLOOR FINISH ► F.X
BASE FINISH ► F.X

FLOOR MATERIAL CHANGE

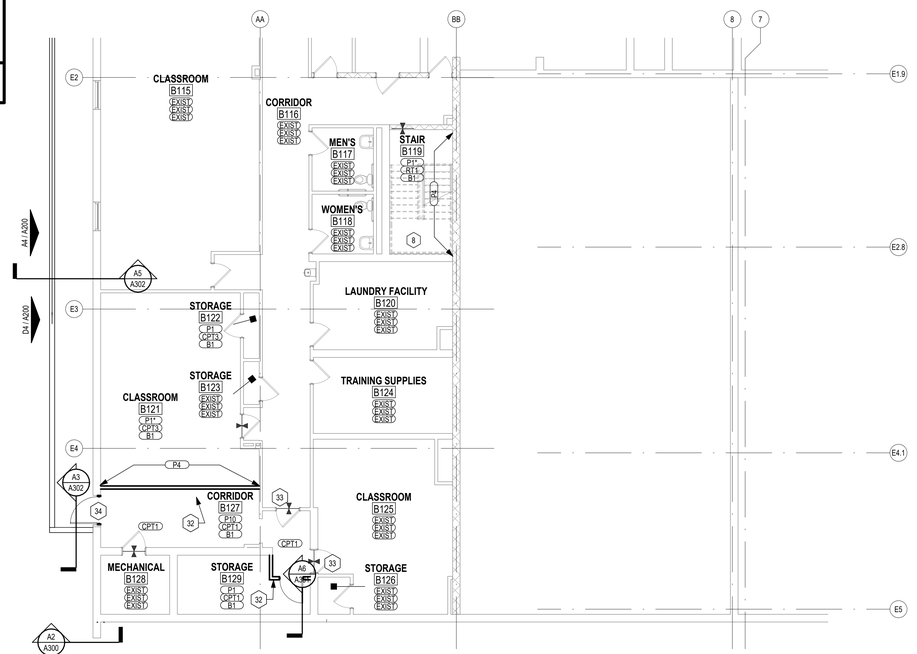
CARPET PATTERN/ TILE DIRECTION

NOTE: * INDICATES THAT FINISH VARIES. REF. ELEVATIONS AND FINISH PLAN FOR ADDITIONAL INFORMATION

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



C1 FINISH PLAN
1/8" = 1'-0"



A1 LOWER LEVEL FINISH PLAN
1/8" = 1'-0"

FLOOR FINISH PLAN KEYED NOTES

MARK	DESCRIPTION
1	DIAS: WOOD VENEER FACADE AND CHASIS (WD1) WITH (PLAM2) COUNTERTOP AND UNDERLIT QUARTZ TRANSACTION LEDGE (SDS1). INTERIOR SIDE TO HAVE REMOVABLE PLASTIC LAMINATE PANELS (PLAM1). REF. DETAIL FOR ADD'L INFO.
2	PROVIDE & INSTALL WINDOW TREATMENT (WT1) BLACKOUT AT BUNKROOMS. WINDOW SILL TO BE (SDS3).
3	PROVIDE & INSTALL WINDOW TREATMENT (WT2) SOLAR SHADES AT OFFICES. WINDOW SILL TO BE (SDS3).
4	LAUNDRY:PROVIDE 48"H WAINSCOT OF (FRP)BOTH WALLS AT UTILITY & MOP SINK
5	DECON SHOWER: PROVIDE & INSTALL HEAVY DUTY .038" GAUGE ANTIBACTERIAL SHOWER CURTAIN, 1" DIA. HEAVY DUTY CURTAIN ROD, STAINLESS STEEL CURTAIN HOOKS. BOBRICK OR APPROVED EQUAL. SEE TOILET ACCESS.SCHED.
6	PROVIDE & INSTALL CORNER GUARDS (WP1).
7	PROVIDE SILICONE SEALANT WHERE BLOCK MEETS SEALED CONCRETE FLOOR. MATCH FLOOR COLOR.
8	PAINT ALL EXPOSED METAL IN STAIRWELL & MEZZANINE, ANY RAILINGS, STRINGERS, METAL DOORS (INTERIOR SURFACE COLOR ONLY), (P2). SEAL ANY GAPS BETWEEN STRINGER AND WALL, SHOULD BE SMOOTH AND SEAMLESS.
9	ALL WALLS WITH EXPOSED CMU/CONCRETE TO HAVE BLOCK FILLER & PRIMER PRIOR TO PAINTING.
10	KITCHEN AND BREAK RM QUARTZ COUNTERTOPS (SDS1) WITH UNDER-MOUNT STAINLESS SINKS. BACKSPLASH CERAMIC TILE (GWT1) WITH (T1) TOPCAP & OUTSIDE EDGES. PROVIDE CLEAR BEAD OF SEALANT WHERE COUNTER MEETS WALL TILE. ALL LOCATIONS. BASE AND WALL CABINETS TO BE (WDC1). SEE ELEVATIONS.
11	QUARTZ VANITY TOPS (SDS1) WITH WHITE PORCELAIN UNDER-MOUNT SINK IN "FLOATING" PHENOLIC BASE CABINET (PLAM1). PROVIDE CLEAR BEAD OF SEALANT WHERE COUNTER MEETS WALL TILE. ALL LOCATIONS.
12	PLASTIC LAMINATE COUNTERTOPS & 4"H BACKSPLASH IN (PLAM2), BASE & WALL CABINETS (PLAM1) IF SHOWN. USE ANGLE BRACKETS AS REQ.
13	WOOD ACCENT WALL TO BE (WDP), FLOATING CRADENA CABINETRY IN DAYROOM. COUNTERTOP TO BE (SDS1), FLOATING CRADENZA TO BE (PLAM1). NOTE: NO BACKSPLASH IN DAYROOM. PROVIDE POWER, DATA AND BLOCKING AS REQ. FOR MONITOR ABOVE CRADENZA.
14	STAINLESS COUNTERTOP & SINK (STN1)
15	PREP WALL TO LEVEL 5 FINISH. PROVIDE & INSTALL CUSTOM WALL GRAPHIC (SF1) OR (SF2) ON WALL AS INDICATED. REFER TO ELEVATIONS, SIZES VARY.
16	QUARTZ BAR HEIGHT (ACCENT) COUNTERTOPS (SDS1). COUNTERTOP TO BE (SDS2) AT ISLAND w/ 4" BACKSPLASH. PROVIDE & INSTALL WAINSCOT OF (WDP) AT ENTIRE BACKPANEL AND SIDES OF ISLAND-FLOOR TO UNDERSIDE OF COUNTER AS PROTECTIVE KICKPLATE. REMAINDER OF CABINETRY TO BE (WDC1) w/ (DH1).
17	HEAVY DUTY WHITE MELAMINE SHELVES WITH PVC EDGEBANDING
18	PROVIDE RUBBER BASE AT CABINETRY WITH (ERF) FLOORS.
19	CRADENZA TO BE (WD1) WITH QUARTZ SDS1 COUNTERTOP. REF. ELEV AND DETAILS FOR ADD'L INFO.
20	DISPLAY CASE w/ LOCKING SLIDING GLASS DOORS. INTERIOR SURFACES TO BE (WC1) EXCLUDING BACK SURFACE WHICH IS (TBF1). REF ELEVATIONS AND DETAILS FOR ADD'L INFO.
21	PROVIDE SAWCUT TERMINATION AT LEADING EDGE FOR SELF-LEVILING EPOXY RESIN SYSTEM TO CONCRETE FLOOR, REFER TO DETAIL
22	PAINT ALL CEILINGS IN APPARATUS BAY, DECON, SCBA, WORK, GEAR, TOILET & SHOWERS, & MEZZANINE P8
23	SHOWER ROOMS: 3'W GLASS PIVOT DOOR w/ OBSCURE GLASS, ALUMINUM FRAME, SHOWER BASE (SDS4), SOLID SURFACE WALL PANEL SURROUNDS (SDS3). NOTE: SHOWER SIZES MAY VARY, FIELD VERIFY. SEAL ALL PERIMETER EDGES w/ CLEAR SEALANT. INCLUDE MATCHING MULTILEVEL DROP-IN SHAMPOO/SOAP HOLDER: CORIAN FUTRUS INFINITI SHOWER NICHE (FSNICHE-30), COLOR T.B.D. LOCATION OPP. OF SHOWER HEAD, INSTALL PER MANF. REQ.
24	CERAMIC TILE WAINSCOT (CT1) WITH ACCENT RIBBON OF (GWT1), ALUMINUM TOPCAP (T1), 5'-0" O.H ALL WALLS. REFER TO ELEVATIONS. PROVIDE CONCEALED SHIM BEHIND MIRROR SO IT SITS FLUSH & LEVEL W/FACE OF TILE.
25	PAINT GYP. BD. SOFFIT ABOVE KITCHEN ISLAND (P6), ALL SIDES OF SOFFIT. INSTALL PENDANT LIGHT FIXTURES, REF. ELECTRICAL DRAWINGS.
26	SOLID PHENOLIC TOILET PARTITIONS & URINAL SCREENS. (TLT1) FLOOR MOUNTED OVERHEAR BRACED, GLOBAL OR APPROVED EQUAL
27	PUBLIC RESTROOMS: TYP. FLOOR TO BE (PT2) w/ GROUT (CG). ALL WALLS (PT1) FULL HEIGHT w/ ACCENT BAND OF (PT2) AS SHOWN. USE GROUT (G2). PORCELAIN TILE BASE CUT 6" HIGH ON GYP. B.D PARTITIONS ONLY. FULL TILE ON BALANCE OF WALLS, AS SHOWN. MOISTURE RESIST. GYP. BOARD ALL WALLS & CLGS. ACCENT WALLS TO BE (GWT1) w/ GROUT (G4) AS SHOWN.
28	TILE BACKSPLASH AT DRINKING FOUNTAIN (GWT2) w/ GROUT (GT1). REFER TO ELEVATIONS.
29	NOT USED.
30	RECEPT. QUARTZ TRANSACTION LEDGES (SDS1) AND BULLET RESISTANT WINDOW w/ SPEAKER PORT AND WALL w/ (WP1) SURROUND w/ STAINLESS DEAL PLATE. PLASTIC LAMINATE COUNTER (PLAM2) AND SUPPORT BRACKETS, AS REQ. ON OFFICE SIDE. REF. ELEV. AND DETAIL.
31	PANTRY CABINETS TO BE (WDC1). SEE ELEVATIONS.
32	NEW PARTITIONS/ INFILLS TO MATCH EXISTING ADJACENT WALL TYPE AND PAINT COLOR TO MATCH. WALL BASE TO MATCH EXISTING.
33	ALIGN NEW FLOORING WITH NEW PARTITION. PROVIDE TRANSITION STRIPE AS REQ.
34	NEW DOOR AT EXISTING WINDOW LOCATION. PATCH/ REPAIR ANY SURFACE TO REMAIN THAT IS DISTURBED.
35	PROVIDE AND INSTALL NON-SLIP COATING (ERF2) WITH SMALL CANTED COVE BASE, REF. DETAIL. INCLUDE ALL MANF. REQ. FLOOR PREP INCLUDING TO MECHANICALLY GRIND DOWN EXISTING CONCRETE FLOOR, APPLY AND FINISH.
36	PATCH/ REPAIR EXISTING CONCRETE SLAB TO REMAIN, FINISHED FLOOR TO BE SMOOTH AND SEAMLESS. CLEAN/ INFILL AS REQUIRED.
37	ENTIRE ROOM TO HAVE (FRP). REF. INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. SHOWER BASE TO BE (SDS4) WITH SOLID SURFACE WALL PANEL SURROUNDS (SDS3).
38	NEW WALL PAINT TO BE 10'-0" A.F.F. ABOVE THAT, EXISTING WALL FINISH TO REMAIN. PATCH/ REPAIR TO MATCH ADJACENT AT NEW LOUVER AS REQ.
39	FLOATING CRADENZA TO BE (WD1) WITH CONTINUOUS QUARTZ. (SDS1) COUNTERTOP, CENTER TO HAVE TO 1/4" TEMPERED GLASS INSERTS. INSTALL DECORATIVE METAL BAR PULLS, ALL DOORS. REF. ELEV AND DETAIL FOR ADD'L INFO.
40	PAINT ALL WALLS AND FREE STANDING COLUMNS IN APP BAY (P11) UP TO HEIGHT SHOWN ON INTERIOR ELEVATION. (ALL SURFACE MOUNTED CONDUIT/ PIPES, ETC TO HAVE SAME LINE OF PAINT) BALANCE OF WALL TO BE (P7) UP TO STRUCTURAL DECK.
41	12" DEEP HEAVY DUTY PLASTIC LAMINATE (PLAM2) SHELVING ON ADJUSTABLE HEAVY DUTY STANDARDS AND BRACKETS.
42	COFFEE BAR: QUARTZ COUNTERTOP (SDS1), NICHE ABOVE COUNTER TO BE CERAMIC TILE (GWT1). PROVIDE CLEAR BEAD OF SEALANT WHERE COUNTER MEETS WALL TILE. ALL LOCATIONS. BASE CABINETS TO BE (WDC1). PROVIDE WATER/ POWER FOR COFFEE MAKER. SEE ELEVATIONS.
43	PAINT ALL STRUCTURAL METAL AT CANOPY P13. PREPARE SURFACE TO RECEIVE NEW FINISH AS REQ. INSTALL PER MANF. REQ. INSTALL NEW CEILING AND LIGHT FIXTURES AT CANOPY.
44	QUARTZ COUNTERTOP (SDS1) w/ 4" BACKSPLASH AND SIDESPLASH. INSTALL DECORATIVE WALL TILE (GWT1) ABOVE BACKSPLASH. TILE TO BE INSTALLED VERTICALLY. ADA BASE CABINET TO BE (PLAM1).
45	BABY BOX - GPY. BOARD SURROUND TO BE SMOOTH AND FLUSH - CONTINUE UNDER COUNTER WORK SURFACE. REF. DETAILS FOR ADD'L INFO.
46	PLASTIC LAMINATE COUNTERTOP (PLAM2) REF. RECEPTION WINDOW DETAIL FOR ADDL INFO. USE ANGLE BRACKETS AS REQ.

STATE OF MISSOURI
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ARCHITECT
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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

FLOOR FINISH PLANS

Project No. 22135
Sheet No. A610
Date 03/15/2024

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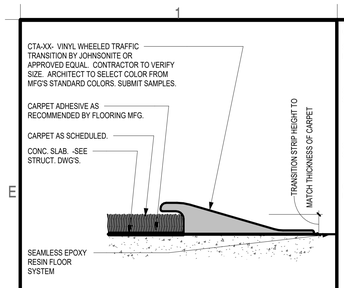
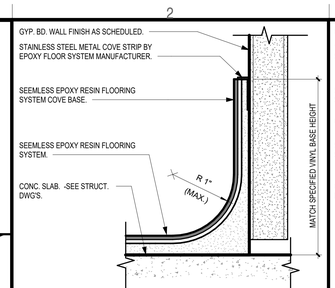


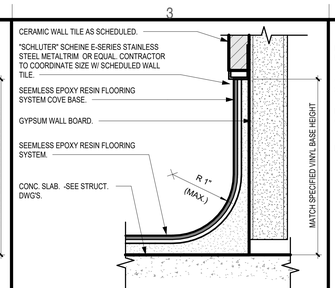
CARPET TO EPOXY RESIN TRANSITION DETAIL

E1 FULL SCALE 09.65.13.33 FLOORING TRANSITION 10



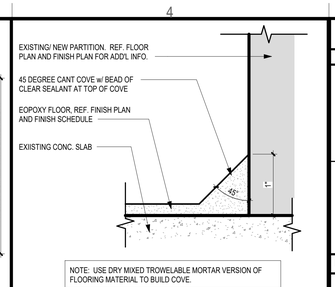
ERF1 COVE BASE TRANSITION TO GYP. BD. WALL DET.

E2 FULL SCALE 09.67.26.01 FLOORING TRANSITION 13



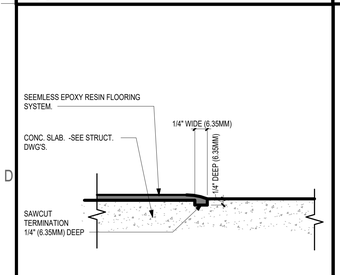
ERF1 COVE BASE TRANSITION TO CER. WALL TILE DET.

E3 FULL SCALE 09.67.26.02 FLOORING TRANSITION 14



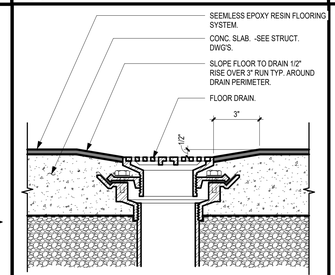
ERF2 COVE BASE TRANSITION TO WALL DETAIL

E4 FULL SCALE 09.67.26.02 FLOORING TRANSITION



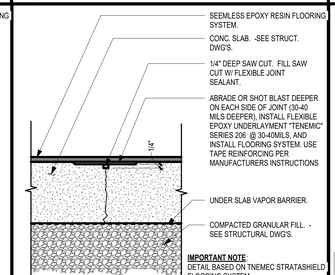
EPOXY RESIN FLOOR TERMINATION ERF TO CONCRETE

D1 09.67.26.03 FLOORING TRANSITION 15



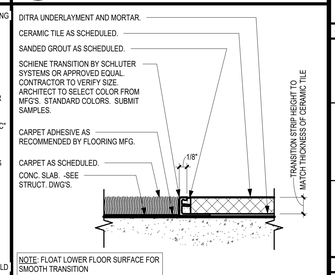
EPOXY RESIN FLOORING FLOOR DRAIN DETAIL

D2 3" = 1'-0" 09.67.26 .02 FLOOR DRAIN DET



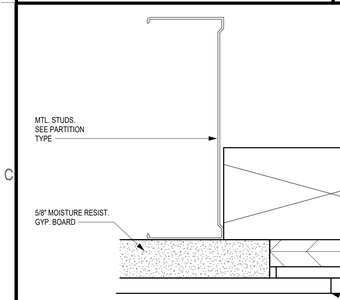
EPOXY RESIN FLOORING CONTROL JOINT DETAIL

D3 3" = 1'-0" 09.67.26.01 FLOORING CJ DET



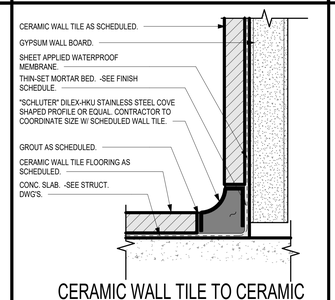
CARPET TO CERAMIC TILE TRANSITION DETAIL

D4 FULL SCALE 09.65.13.33 FLOORING TRANSITION 07



CORIAN WALL SEAMING DETAIL

C1 FULL SCALE



CERAMIC WALL TILE TO CERAMIC FLOOR TILE TRANSITION.

C3 FULL SCALE 09.67.26.03 FLOORING TRANSITION 16

INTERIOR FINISH SCHEDULE

ACOUSTICAL CEILINGS

ACT1 — ACOUSTICAL CEILING TILES - BOARDROOM/ ADMIN.
MFGR: ARMSTRONG
PATTERN: DUNE SECOND LOOK II ANGLED TEGULAR
MODEL: 2712
SIZE: 2'-0" X 4'-0", 15/16" GRID, IF REQUIRED.
COLOR: WHITE
NOTE: ONLY PROVIDE GRID, WHERE SHOWN. NEW TILES IN EXISTING GRID WHERE SHOWN.
CONTACT: ELIZABETH MOON 816.216.2890

ACT2 — ACOUSTICAL CEILING TILES - FIELD
MFGR: ARMSTRONG
PATTERN: FINE FISSURED SECOND LOOK II ANGLED TEGULAR
MODEL: 1761
SIZE: 2'-0" X 4'-0", 15/16" GRID PRELUDE XL, COLOR: WHITE, IF REQUIRED.
COLOR: WHITE
NOTE: ONLY PROVIDE GRID, WHERE SHOWN. NEW TILES IN EXISTING GRID WHERE SHOWN.
CONTACT: ELIZABETH MOON 816.216.2890

BASE

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

B2 — RUBBER MILLWORK BASE - ADMIN/ LOBBY & BOARDROOM
MFGR: JOHNSONITE
STYLE/SIZE: MW-48-F6, 6" HIGH REVEAL PROFILE, 1/4" GAUGE, 8'-0" LENGTHS
COLOR: 63 BURNT UMBER
ALL CORNERS TO BE MITRE CUT.

CARPET

CPT1 — CARPET - ENTRY WALK OFF - VESTIBULE
MFGR: TARKETT
PATTERN: ASSERTIVE STRIA #04839
COLOR: STEELWORK #26202
SIZE: 24" x 24", INSTALL METHOD: HORIZONTAL ASHLAR
CONTACT: AMY ELLIS 314.348.7677

CPT2 — CARPET - MODULAR TILE - BUNK ROOMS
MFGR: BENTLEY
PATTERN: HIMITSU SAN 64H20 WITH NEXSTEP CUSHION TILE
COLOR: 403758 ON THE DL
SIZE: 18" x 36" TILE
INSTALL METHOD: MONOLITHIC
CONTACT: TIFFANY AUER 314.440.6235

CPT3 — CARPET - MODULAR TILE - OFFICE & BOARDROOM
MFGR: BENTLEY
PATTERN: REPOSE 8RJ26 WITH NEXSTEP CUSHION TILE
COLOR: 800221 SOCIAL CONDUCT
SIZE: 18" x 36" TILE
INSTALL METHOD: MONOLITHIC
CONTACT: TIFFANY AUER 314.440.6235

CERAMIC WALL TILE

CT1 — CERAMIC WALL TILE
MFGR: VIRGINIA TILE - AMERICAN OLEAN
PATTERN: COLOR STORY 2x0T25
COLOR: 25 ICE WHITE, SIZE: 4"x12" TILE
INSTALL METHOD: STACK BOND TILE. USE SCHLUTER SCHIENE TRIM ALL OUTSIDE EXPOSED EDGES, TYP. INSTALL WITH GROUT GT1
CONTACT: NIKKI STELLOH 314.327.9764

DECORATIVE HARDWARE

DH1 — DECORATIVE HARDWARE - KITCHEN & DAY ROOM CABINETRY
MFGR: LIBERTY HARDWARE OR APPROVED EQUAL
MODEL: #15510-128MM LINEAR STAINLESS BAR PULL
SIZE: 7 13/32" OVERALL LENGTH 1/2" DIA, 5" CENTER TO CENTER
COLOR: STAINLESS STEEL

EPOXY RESIN FLOORING

ERF1 — EPOXY RESIN FLOORING & 4" INTEGRAL COVE BASE - FIRE HOUSE
MFGR: DUR-A-FLEX OR APPROVED EQUAL
STYLE: DUR-A-CHIP
FINISH TOPCOAT: ARMOR TOP
COLOR: CUSTOM COLOR - 4 COLORS (1/4" FLAKE SIZE):
25% SHERWIN WILLIAMS CEILING BRIGHT WHITE SW7007
25% SHERWIN WILLIAMS STEELY GRAY SW7664
25% SHERWIN WILLIAMS GRAY SCREEN SW7071
25% SHERWIN WILLIAMS IRON ORE SW7069
CONTACT: DYLAN CHANNEL 913.277.7458
NOTE: PROVIDE (3) MOCKUP PANELS FOR COLOR & TEXTURE APPROVAL, PROVIDE (3) OPTIONS FOR TEXTURE FINISH
NOTE: USE REQUIRED TRANSITION DETAIL AT DOOR TRANSITIONS. SUBMIT FOR APPROVAL.

ERF2 — EPOXY RESIN FLOORING & 1" CANTED COVE BASE - APP. BAY
MFGR: DUR-A-FLEX OR APPROVED EQUAL
STYLE: POLY-CRETE SLB w/ SHOP FLOOR AND ARMOR TOP
FINISH TOPCOAT: EPOZY AND URETHANE (FLINTSHOT BROADCAST)
COLOR: CUSTOM COLOR - 4 COLORS (1/4" FLAKE SIZE):
25% SHERWIN WILLIAMS CEILING BRIGHT WHITE SW7007
25% SHERWIN WILLIAMS STEELY GRAY SW7664
25% SHERWIN WILLIAMS GRAY SCREEN SW7071
25% SHERWIN WILLIAMS IRON ORE SW7069
CONTACT: DYLAN CHANNEL 913.277.7458
NOTE: PROVIDE (3) MOCKUP PANELS FOR COLOR & TEXTURE APPROVAL, PROVIDE (3) OPTIONS FOR TEXTURE FINISH
NOTE: USE REQUIRED TRANSITION DETAIL AT DOOR TRANSITIONS. SUBMIT FOR APPROVAL.
NOTE: PROVIDE AND INSTALL NON-SLIP COATING WITH SMALL CANTED COVE BASE AT ENTIRE PERIMETER OF ROOM. SEE DETAIL.

FRY REGLET REVEALS

FR1 — FRY REGLET REVEALS - BOARDROOM WALLS - DAIS
MFGR: FRY REGLET
STYLE: MILLWORK REVEAL
COLOR: CLEAR ANODIZED. INCLUDE ALL CORNER TRIMS AND REQUIRED INTERSECTIONS. REF. INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

FIBERGLASS REINFORCED PANELS

FRP — FRP PANELS - JANITOR MOP SINK
MFGR: CRANE COMPOSITES
STYLE: GLASBORD W/SURFASEAL, PEBBLE EMBOSSED TEXTURE
COLOR: WHITE, SIZE: CLASS A, GAUGE: 0.09" INCLUDE ALL TRIM CAPS & CORNER BEADS.

GLASS WALL TILE

GWT1 — GLASS WALL TILE - KITCHEN & TLT RM ACCENT STRIPE
MFGR: DAL TILE
STYLE: CASCADING WATERS, COLOR: RAINWATER CW42
SIZE: 1x4" MESH MOUNTED SHEET, CUT INTO 4"H VERTICAL STRIPS (VERTICAL STICKS), REFER TO ELEVATION FOR PATTERN
CONTACT: JOANNA WHITTAKER 314.629.0125

GWT2 — GLASS WALL TILE - ACCENT TILE
MFGR: VIRGINIA TILE - CERAMIC TILES INTERNATIONAL
STYLE: DEBUT - BEVELED, COLOR: CLIFF
NUMBER: CTIDECF39BEV
SIZE: 3"x9" STACKED BOND MOSAIC, REFER TO ELEVATION FOR PATTERN
CONTACT: NIKKI STELLOH 314.327.9764

GROUT

G1 — WALL GROUT KITCHEN BACKSPLASH & DRINKING FOUNTAIN
MFGR: MAPEI
STYLE: KERAPOXY CQ
COLOR: T.B.D.
NOTE: KNIFE GROUT JOINT

G2 — WALL GROUT TOILET ROOM WALLS
MFGR: MAPEI
STYLE: KERAPOXY CQ
COLOR: T.B.D.
NOTE: KNIFE GROUT JOINT

G3 — FLOOR GROUT TOILET ROOM FLOORS
MFGR: MAPEI
STYLE: KERAPOXY CQ
COLOR: T.B.D.
NOTE: 1/8" GROUT JOINT

G4 — FLOOR GROUT TOILET ROOM WALLS @ GLASS TILE
MFGR: MAPEI
STYLE: KERAPOXY CQ
COLOR: T.B.D.
NOTE: 1/8" GROUT JOINT

LUXURY VINYL TILE

LVT1 — LUXURY VINYL TILE - BREAKROOM
MFGR: BENTLEY
STYLE: MOOD
COLOR: FLUID
NUMBER: 801093
SIZE: 9"x48" 2.5mm THICK
INSTALL METHOD: RANDOM ASHLAR

PAINT

P1 — PAINT – WALLS – FIELD COLOR
MFGR: SHERWIN WILLIAMS
FINISH: PROMAR ZERO VOC, EGGSHELL
COLOR: SW7071 GRAY SCREEN
CONTACT: HANK MENKING 314.281.7485

P2 — PAINT – DOOR FRAMES/DOORS INDICATED AS "PAINT" ON DOOR SCHEDULE, EXPOSED METAL STAIRWELL STRINGERS/RAILINGS/ LADDER
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: SW7007 CEILING BRIGHT WHITE

P4 — PAINT – WALLS – ACCENT WALLS
MFGR: SHERWIN WILLIAMS
FINISH: PROMAR ZERO VOC, EGGSHELL
COLOR: SW7664 STEELY GRAY

P5 — PAINT – WALLS – ACCENT WALLS
MFGR: SHERWIN WILLIAMS
FINISH: PROMAR ZERO VOC, EGGSHELL
COLOR: SW7665 WALL STREET

P6 — PAINT – WALLS – ACCENT WALLS
MFGR: SHERWIN WILLIAMS
FINISH: PROMAR ZERO VOC, EGGSHELL
COLOR: SW6866 HEARTHROB

P7 — PAINT – APPARATUS BAY/ DECON WALLS
MFGR: SHERWIN WILLIAMS
SERIES: EPOXY FINISH: SEMI GLOSS
COLOR: SW7071 GRAY SCREEN
NOTE ALL WALLS WITH EXPOSED CMU BLOCK TO HAVE BLOCK FILLER & PRIMED PRIOR TO PAINTING

P8 — PAINT – APPARATUS BAY, DECON, TLT&SHOWER CEILINGS
MFGR: SHERWIN WILLIAMS
SERIES: DRYFALL PROINDUSTRIAL WATER BASED CATALYZED EPOXY
FINISH: EGGSHELL
COLOR: SW7007 CEILING BRIGHT WHITE
PRIME SURFACES PRIOR TO PAINTING

P9 — PAINT – KITCHEN SOFFIT
MFGR: SHERWIN WILLIAMS
FINISH: PROMAR ZERO VOC, FLAT
COLOR: SW7664 STEELY GRAY

P10 — PAINT – LOWER LEVEL CORRIDOR
MFGR: SHERWIN WILLIAMS
FINISH: PROMAR ZERO VOC
COLOR: MATCH ADJACENT EXISTING WALL COLOR AND FINISH

P11 — PAINT – APPARATUS BAY/ DECON WALLS
MFGR: SHERWIN WILLIAMS
SERIES: EPOXY FINISH: SEMI GLOSS
COLOR: SW7664 STEELY GRAY
NOTE ALL WALLS WITH EXPOSED CMU BLOCK TO HAVE BLOCK FILLER & PRIMED PRIOR TO PAINTING

P12 — PAINT – EXISTING CEILING GRID
MFGR: SHERWIN WILLIAMS
SPOT PRIME CEILING GRID (BARE FERROUS METAL AREAS ONLY) #B50WZ4
KEM BOND HS ALKYD UNIVERSAL METAL PRIMER
TWO FINISH COATS #B66W1151 PRO INDUSTRIAL DTM ACRYLIC
FINISH: SEMI GLOSS
COLOR: SW7007 CEILING BRIGHT WHITE

P13 — PAINT – EXTERIOR METAL - CANOPY
MFGR: SHERWIN WILLIAMS
SPOT PRIME CEILING GRID (BARE STEEL - RUSTING AREAS, SSPC SP-2) #B58W610 MACROPOXY 646 FAST CURE EPOXY
FULL COAT PRIME #B58W610 MACROPOXY 646 FAST CURE EPOXY
TWO FINISH COATS #B66W351 HI-SOLIDS POLYURETHANE
FINISH: SEMI GLOSS
COLOR: SW7069 IRON ORE

P14 — PAINT – EXISTING WOOD DOOR FRAMES
MFGR: SHERWIN WILLIAMS
FULL COAT PRIME #B49W8820 MULTI-PURPOSE PRO INDUSTRIAL INTERIOR OIL-BASED PRIMER
TWO FINISH COATS #S3W2151 PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL
FINISH: SEMI GLOSS
COLOR: SW7069 IRON ORE
NOTE: PREPARE EXISTING DOOR FRAMES AS REQ.

PLASTIC LAMINATE

PLAM1 — PLASTIC LAMINATE – VERTICAL DOORS & DRAWERS
WARDROBES VERTICAL DOORS
MFGR: WILSONART
STYLE: COLOMBIAN WALNUT #7943-K-07 TEXTURED GLOSS FINISH
VERTICAL GRAIN DIRECTION, TYP. INCLUDE MATCHING 1MM PVC EDGEBAND
CONTACT: COMPI DIST. 636.296.1111

PLAM2 — PLASTIC LAMINATE –HORIZ COUNTERTOPS
MFGR: WILSONART
STYLE: BATTLESHIP #5014-K-19 LENO WEAVE FINISH
FINE VELVET FINISH, INCLUDE MATCHING 3MM PVC EDGE
CONTACT: COMPI DIST. 636.296.1111

PORCELAIN TILE

PT1 — PORCELAIN FLOOR TILE – ADMIN. RESTROOM FLOORS/ WALLS
MFGR: DALTILE
STYLE: VOLUME 1.0
COLOR: INTENSITY PEBBLE VL72, FINISH: MATTE
SIZE: 12"x24"x5/16"
INSTALL METHOD: STACK BOND, KNIFE JOINT INSTALL WITH GROUT GTXX.
CONTACT: JOANNA WHITTAKER 314.629.0125

PT2 — PORCELAIN FLOOR TILE – ADMIN. RESTROOM WALLS
MFGR: DALTILE
STYLE: VOLUME 1.0
COLOR: ELECTRIC MOSS VL79, FINISH: MATTE
SIZE: 12"x24"x5/16"
INSTALL METHOD: STACK BOND, KNIFE JOINT INSTALL WITH GROUT GTXX.
CONTACT: JOANNA WHITTAKER 314.629.0125

SEALED CONCRETE

SC — SEALED CONCRETE FLOOR
REFER TO ARCHITECTURAL SPECIFICATIONS
NOTE: BROOM FINISH IN STAIRWELLS

SPECIALTY FINISH

SF1 — SPECIALTY FINISH - CUSTOM VINYL WALL APPLIQUE - LOBBY
MFGR: INFINITE OPTIKS QUALITY GLASS
STYLE: CUSTOM DIGITALLY PRINTED DESIGN, MULTI COLOR
SIZE VARIES SEE ELEVATIONS; MULTI-COLOR CUSTOM DESIGN TO BE DETERMINED BY ARCHITECT
CONTACT: KELLY FORD 636.391.3888

SF2 — SPECIALTY FINISH - CUSTOM VINYL WALL APPLIQUE - DINING RM
MFGR: INFINITE OPTIKS QUALITY GLASS
STYLE: CUSTOM DIGITALLY PRINTED DESIGN, MULTI COLOR
SIZE: SEE ELEVATIONS; MULTI-COLOR CUSTOM DESIGNS TO BE DETERMINED BY ARCHITECT
CONTACT: KELLY FORD 636.391.3888

SF3 — SPECIALTY FINISH - CABLE SUSPENDED GLASS SHELVING KITS LOBBY
MFGR:NOVADISPLAY KITS - PROVIDE TWO KITS FOR EACH CABINET (x4)
MODEL: KSI- 003
INCLUDE: CA4 HARDWARE TOP & BOTTOM FITTINGS, CABLES, CG06 SHELF SUPPORTS, 14" DEEP x 24" WIDE TEMPERED GLASS SHELVES 3/8" THICK w/FLAT POLISHED EDGES
FINISH: SATIN CHROME
WWW.NOVADISPLAY.COM

RUBBER STAIR TREADS, RISERS, LANDING TILE

RT1 — RUBBER STAIR TREADS
MFGR: TARKETT JOHNSONITE RUBBER STAIR TREADS w/ VISUAL CONTRAST NOSING INTEGRATED RISER w/ MATCHING RUBBER LANDING TILES
STYLE: VIHNTRSPS, COLOR: VG3 IRONSIDE B, COLORSPLASH STAIR TREAD/ RISERS, HAMMERED TEXTURED SPECKLED COLOR, SOLID RUBBER INSET
COLOR: 55 SILVER GRAY
STYLE: HRTSP, COLOR: VG3 IRONSIDE B, COLORSPLASH RUBBER TILE, HAMMERED TEXTURED SPECKLED COLOR
NOTE: VERIFY EXISTING STAIR TREADS/ RISERS ARE REQUIRED HEIGHT
CONTACT: ADAM GLASER 314.405.0147

SOLID SURFACE

SDS1 — SOLID SURFACE - QUARTZ KITCHEN COUNTER, TLT ROOM VANITY, DAY ROOM CREDENZA
MFGR: CAMBRIA
COLOR: SWANBRIDGE, GAUGE: 3CM, EASED EDGES
NOTE: SUBMOUNT STAINLESS SINK. PROVIDE KITCHEN SINK CUTOUTS TO OWNER FOR CUTTING BOARDS-FINISH EDGES SMOOTH. PROVIDE SEAMING DIAGRAM TO DESIGNER FOR APPROVAL.

SDS2 — SOLID SURFACE - QUARTZ ACCENT KITCHEN ISLAND BAR TOP
MFGR: CAMBRIA
COLOR: ARMITAGE. GAUGE: 3CM, EASED EDGES
NOTE: PROVIDE SEAMING DIAGRAM TO DESIGNER FOR APPROVAL

SDS3 — SOLID SURFACE -SHOWER SURROUNDS
MFGR: CORIAN
COLOR: WHITE ONYX
GAUGE: 1/4", SHEET SIZE 30"W X FULL HEIGHT OF SHOWER, FIELD VERIFY.
CONTACT: JOSH WELCH 314.254.6634
NOTE: CORIAN JOINT ADHESIVE BUTT-SEAM PANELS, PROVIDE SEAMING DIAGRAM TO DESIGNER FOR APPROVAL. FOLLOW ALL MANUFAC. GUIDELINES FOR INSTALLING WET LOCATION VERTICAL PANELS.

SDS4 — SOLID SURFACE -SHOWER RECEPTOR/BASE
MFGR: IN PRO
PRISM SOLID SURFACE
COLOR: TO BE SELECTED FROM MANF. LIST OF STANDARDS
NOTE: KIT INCLUDES FLOOR DRAIN
FOLLOW ALL MANUFAC. GUIDELINES FOR INSTALLATION

STAIN - WOOD STAIN

ST1 — STAIN - EXISTING WOOD DOORS
STAIN EXISTING DOORS TO MATCH NEW DOORS (W1)
REFER TO ARCHITECTURAL SPECIFICATIONS
NOTE: IF DOOR IS DAMAGED, VERIFY WITH OWNER.
NOTE: ADD ALTERNATE TO BE ALL NEW WOOD DOORS

STAINLESS STEEL

STN1 — STAINLESS STEEL COUNTERTOPS
TOOLS/SCRAB/DECON COUNTERTOPS
REFER TO ARCHITECTURAL SPECIFICATIONS

TACKBOARD FABRIC

TBF1 — TACKBOARD FABRIC - DISPLAY CASES BACKPANEL
MFGR: DESIGNTEX
PATTERN: MACKINTOSH COLOR: MASON
CONTENT: 100% POLYESTER, WIDTH: 54"
CONTACT: MARY ROTTER 314.336.2119
TACKBOARD/ACOUSTICAL PANELS TO BE GOLTERMAN SABO ACOUSTI-TACK ATF OR APPROVED EQUAL. TOTAL PANEL THICKNESS TO BE 1/2". NOTE ALL DEVICES/OUTLETS THAT FALL WITHIN PANEL REGION TO BE BROUGHT OUT FLUSH TO FACE OF TACK PANEL.

TRANSITIONS/FLOORING ACCESSORIES

T1 — TRANSITION CERAMIC TILE & PORCELAIN TILE PERIMETER EDGES
MFGR: SCHLUTER
PATTERN: SCHIENE, NOTE SIZES VARY FOR FLOOR & WALLS
COLOR: SATIN ANODIZED ALUMINUM

T2 — TRANSITION - CARPET TO EPOXY RESIN
MFGR: JOHNSONITE
PATTERN: CTA-63-A
COLOR: BURNT UMBER

T3 — TRANSITION - SPORTS FLOOR TO EPOXY RESIN
MFGR: JOHNSONITE
PATTERN: CTA-63-Q
COLOR: BURNT UMBER

T4 — TRANSITION - CARPET TO CONCRETE
MFGR: JOHNSONITE
PATTERN: CTA-63-J
COLOR: BURNT UMBER

WALL PROTECTION

WP1 — WALL PROTECTION - P3TEC WALL PROTECTION
MFGR: D.L. COUCH
PATTERN: BEVEL, COLOR: METALLO
NUMBER: P3T-60242
CONTACT: JOE FILLA 636.349.1645

WP2 — WALL PROTECTION - CORNER GUARDS
MFGR: CS ACROVYN
STYLE: TAPE ON #LG-150, 1-1/2"x1-1/2" WING, 4'-0" HEIGHT
COLOR: MATCH ADJACENT WALL COLOR (MULTIPLE COLORS) - SUBMIT TO DESIGNER FOR APPROVAL
CONTACT: JOE FILLA 636.349.1645

WINDOW TREATMENTS

WT1 — WINDOW TREATMENTS - ROLLER SHADES BLACKOUT - BUNKROOMS/ DAYROOM
MFGR: SWF WINDOW FASHIONS
STYLE: ENTERPRISE, BLACKOUT
SHADECLOTH COLOR: ENTERPRISE BLACKOUT LIGHT GREY C1304,
FASCIA: 875 CLEAR ANODIZED TRUEPERFORMANCE MANUAL SHADES, INSIDE MOUNT, STAINLESS PULL CHAIN
CONTACT: DUSTIN PALMER GOLTERMAN & SABO 800.781.2036 EXT1010

WT2 — WINDOW TREATMENTS - ROLLER SHADES - SOLAR SHADES - ADMIN.
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
CONTACT: DUSTIN PALMER GOLTERMAN & SABO 800.781.2036 EXT1010

WOOD CABINETRY

WDC1 — WOOD KITCHEN CABINETRY
SPECIES: WHITE MAPLE PLAIN SLICED
MFGR: KRAFTMAID OR APPROVED EQUAL
SPECIES: MAPLE, DOOR STYLE: TRUMBEL SHAKER STYLE FULL OVERLAY PANEL, COLOR: STAIN TO MATCH WC1
NOTE: INSTALL ALL DOOR & DRAWERS WITH SOFT CLOSE HARDWARE.
DECORATIVE HARDWARE PULLS DH1 (SEE FINISH SCHEDULE) ON DOOR & DRAWERS.

WOOD DOORS

W1 — WOOD DOORS
MFGR: MASONITE
STYLE: WHITE MAPLE PLAIN SLICED SELECT
COLOR: #800

WOOD PANELING

WDP — WOOD WALL PANELING
STYLE: SHIPLAP HORIZONTAL PANELING
SPECIES: MAPLE PLAIN SLICED, HORIZONTAL PLANKS
COLOR: CUSTOM STAINED TO MATCH WC1
SIZE: 8.25"X12' PLANKS WITH 1/8" "NICKEL" SPACING, 3/4" THICK
NOTE: PROVIDE 5/8" F.T. PLYWD BACKING IN LIEU OF 5/8" GYP BRD.

WOOD

WD1 — CUSTOM FABRICATED WOOD VENEER WALL PANELS/ DAIS/ CRADENZA
VENEER MFGR: HEITINK VENEERS
SPECIES:
COLOR:
INSTALL HORIZONTAL GRAIN DIRECTION,TYPICAL. VENEER BOOK MATCHED PATTERN
SEQUENCE MATCH GRAIN, CUSTOM PANEL SIZES VARY, REFER TO DRAWINGS/ ELEVATIONS.
INSTALL PANELS WITH COMPATABLE LUMBER BAND EDGE TO MATCH FINISH WITH TWO COATS CLEAR POLYURETHANE FINISH, SATIN SHEEN
PROVIDE STRIKEOFF FOR DESIGNER APPROVAL
INCLUDE METAL REVEALS PER DRAWINGS.
NOTE: INSTALL METAL REVEALS - FRY REGLET 1/2" MILLWORK REVEAL (FR1) - FINISH: CLEAR ANODIZED. REF. ELEVATIONS FOR LOCATIONS.
NOTE: LONG 4-6 WEEK LEAD TIME IS POSSIBLE, COORDINATE ORDER ASAP
CONTACT: HAYDEN

WALLCOVERING

WC1 — WALLCOVERING - LOBBY DISPLAY CASES, CEILING
MFGR: . KORSEAL WALLCOVERING
STYLE: ARBOR ART WOOD VENEER WALLCOVERING
COLOR: RECON ANDES FC OLIVE WALNUT WITH ULTRA 70 FINISH
PRODUCT#AA7340ROS
CUSTOM SIZE: 4'X10', HANG IN NUMERICAL SEQUENCE. WALLS TO PREP'D TO LEVEL 5 FINISH PRIOR TO INSTALL. SEE ELEVATIONS. PROVIDE SEAMING DIAGRAM TO DESIGNER FOR REVIEW/APPROVAL PRIOR TO ORDER OF MATERIAL.
CONTACT: KRISTIN MINKEVICH 314.303.9874

STATE OF MISSOURI
ROY A. MANSKER
NUMBER A-6661
ARCHITECT
03/15/24
Roy A. Mansker
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Proposed:
Mehlville Fire Housa No5
11020 MUELLER ROAD

No.	Date	Revision

FINISH SCHEDULE, FLR. DET.

Project No. 22135
Sheet No. A611
Date 03/15/2024

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

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A1 FURNITURE PLAN (FOR REFERENCE ONLY)
1/8" = 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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STATE OF MISSOURI
ROY A. MARSHALL
A-6661
ARCHITECT
03/15/24
Roy A. Marshall

MO Architect License No: A-6661
Expires: 12/31/24

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Proposed:
Mehlville Fire House No5
11020 MUELLER ROAD

No.	Date	Revision

FURNITURE PLAN

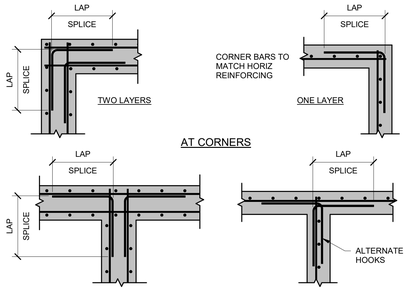
Project No. 22135
Sheet No. A612
Date 03/15/2024

NOTE:
1. MAX SPACING SHALL BE 100'-0" oc UNO.

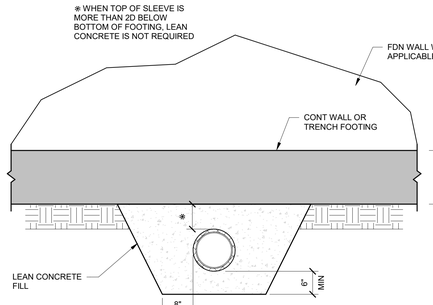
2 S101 TYPICAL RETAINING WALL CONSTRUCTION JOINT DETAIL
NTS

NOTE:
1. SEE GENERAL NOTES FOR CONTROL JOINT SPACING. MAX SPACING SHALL BE 20'-0" oc UNO.

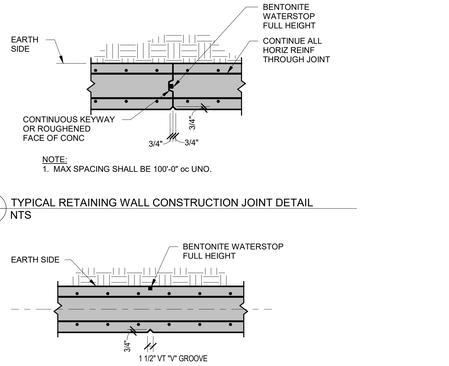
3 S101 TYPICAL RETAINING WALL CONTROL JOINT DETAIL
NTS



1 S101 TYPICAL CONCRETE WALL / GRADE BEAM REINFORCING DETAILS AT INTERSECTIONS AND CORNERS
NTS

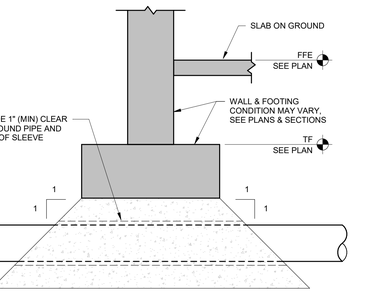


4 S101 TYPICAL DETAIL WHERE PLUMBING PASSES BELOW CONTINUOUS WALL OR TRENCH FOOTING
NTS



NOTE:
1. MAXIMUM SLEEVE DIAMETER SHALL BE 0.25 x FOOTING DEPTH.
2. PROVIDE 1" ALL AROUND BETWEEN PIPE AND INSIDE OF SLEEVE.

6 S101 TYPICAL PIPE SLEEVE THRU FOUNDATION DETAIL
NTS



5 S101 TYPICAL PROHIBITED EXCAVATIONS AT FOUNDATION
NTS

STRUCTURAL GENERAL NOTES

DIVISION 1 - GENERAL REQUIREMENTS

1.1 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.

1.2 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. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED EQUIPMENT WEIGHTS, OPENING SIZES, AND LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH DOCUMENTS FROM OTHER DISCIPLINES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
D. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZE, METHOD OF ANCHORAGE, WEIGHT, OPENINGS, AND LOCATIONS OF EQUIPMENT NOT INDICATED ON THE STRUCTURAL DRAWINGS PRIOR TO FABRICATION FOR REVIEW BY STRUCTURAL ENGINEER TO DETERMINE ADEQUACY OF THE STRUCTURE.
E. 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.
F. SUBMITTALS SHALL BE REVIEWED WITHIN 10 WORKING DAYS AFTER BEING RECEIVED BY STRUCTURAL ENGINEER.

1.3 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 BEFORE 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, 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" OR 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. EXCAVATION SUPPORT
2. TEMPORARY BRACING AND SHORING
3. SUPPORT AND SEISMIC BRACING OF MECHANICAL, ELECTRICAL PLUMBING, AND FIRE PROTECTION (M/E/P/FP) SYSTEMS COMPONENTS
a. DO NOT SUPPORT SYSTEMS FROM STEEL ROOF DECK.
b. POWDER ACTUATED FASTENERS INSTALLED IN CONCRETE SHALL NOT BE USED TO RESIST SEISMIC LOADS.

1.4 STRUCTURAL SPECIAL INSPECTIONS
A. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE GOVERNING BUILDING CODE AND THE STATEMENT OF SPECIAL INSPECTIONS ON SHEET S102.

1.5 DESIGN CRITERIA:
A. THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE IBC INTERNATIONAL BUILDING CODE,2015 EDITION AND INTERNATIONAL EXISTING BUILDING CODE, 2015 EDITION.
1. BUILDING RISK CATEGORY IV.
B. INFORMATION PROVIDED IN THESE GENERAL NOTES PERTAINS ONLY TO THE DESIGN OF THE EXTERIOR RETAINING WALL ALONG THE NORTH SIDE OF THE BUILDING AND THE INFILLED FLOOR SLAB.
C. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.
D. GRAVITY LOADS:
1. UNIFORM FLOOR LIVE LOADS AT SLAB INFILL: 100 PSF, UNREDUCED
2. CONCENTRATED FLOOR LIVE LOADS
a. LOAD IS DISTRIBUTED OVER AN AREA OF 2-1/2 SQ. FT., UNLESS NOTED OTHERWISE.
AT SLAB INFILL: 2000 LB.
3. 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.

1.6 M/E/P/FP AND SYSTEM SUPPORTS
A. UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER SHALL DESIGN ALL VERTICAL AND LATERAL SUPPORTS FOR M/E/P/FP AND MISCELLANEOUS SYSTEMS.
B. CONNECTIONS TO THE PRIMARY STRUCTURE SHALL BE TO THE STEEL BEAMS OR COMPOSITE SLAB.
1. CONNECTIONS TO THE STEEL BEAMS SHALL ONLY APPLY CONCENTRIC VERTICAL LOADS TO THE BEAMS. THE CONTRACTOR SHALL SUPPLY ADDITIONAL MISCELLANEOUS METALS AS NECESSARY TO RESOLVE ANY ECCENTRIC, TORSIONAL, OR HORIZONTAL LOADS APPLIED TO THE BEAMS.
2. CONNECTIONS TO STEEL BEAMS SHALL NOT IMPART ADVERSE LOCAL STRESSES WITHIN THE FLANGES OR WEBS OF THE BEAMS.
3. CONNECTIONS TO THE COMPOSITE SLAB ON METAL DECK SHALL BE MADE THROUGH THE DECK AND DIRECTLY TO THE CONCRETE. A MAXIMUM OF 400 POUNDS MAY BE HUNG FROM THE COMPOSITE SLAB ON METAL DECK. LOADS TO THE SLAB ON DECK SHALL NOT BE CLOSER THAN 5 FEET TO ANY OTHER LOAD. IF LOADING OR SPACING REQUIREMENTS ARE NOT SATISFIED, CONNECT DIRECTLY TO THE STEEL BEAMS PER THE REQUIREMENTS ABOVE.
4. CONNECTIONS SHALL NOT BE MADE TO STEEL ROOF DECK.

1.7 EXISTING STRUCTURE
A. SIZES AND LOCATIONS OF EXISTING STRUCTURE HAVE BEEN PROVIDED FOR REFERENCE ONLY. ALL EXISTING SIZES AND LOCATIONS ARE TAKEN FROM THE EXISTING DESIGN DRAWINGS THAT WERE PROVIDED TO THE DESIGN TEAM AND DO NOT REPRESENT AS-BUILT CONDITIONS.
B. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS OF THE EXISTING STRUCTURE PRIOR TO STARTING FABRICATION.
C. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN TEAM OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
D. THE EXISTING STRUCTURE MAY REQUIRE TEMPORARY SHORING AND BRACING WHILE PERFORMING MODIFICATIONS ON THE EXISTING STRUCTURE.
1. THE CONTRACTOR SHALL HIRE AN ENGINEER TO INVESTIGATE WHERE ANY TEMPORARY SHORING/BRACING IS REQUIRED AND TO DESIGN THIS SHORING/BRACING.
2. THE ENGINEER SHALL BE LICENSED TO PERFORM THE WORK IN THE JURISDICTION WHERE THE WORK IS TO BE PERFORMED.

DIVISION 2 - FOUNDATIONS

2.1 GENERAL
A. NO GEOTECHNICAL REPORT WAS AVAILABLE AT TIME OF DESIGN. BEARING CAPACITY BASED ON PRESUMPTIVE LOAD-BEARING VALUES PER TABLE 1806.2 IN THE ICC INTERNATIONAL BUILDING CODE, 2015 EDITION. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE DIFFERENT FROM THOSE ASSUMED IN DESIGN.
B. OWNER'S GEOTECHNICAL REPRESENTATIVE SHALL CERTIFY THE BEARING MEDIUM.
C. EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.
D. BACKFILL MATERIAL SHALL BE FREE-DRAINING, OPEN GRADED STONE.

2.2 FOOTINGS
A. ALL FOOTINGS SHALL BEAR ON AND BE FORMED BY CLEAN, UNDISTURBED, VIRGIN, SUB-SOIL OR COMPACTED ENGINEERED FILL WITH AN ALLOWABLE BEARING PRESSURE OF 1500 PSF.
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

3.1 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. WELDED WIRE REINFORCING SHALL BE ASTM A1064, CONTACT LAP SPLICED 12 INCHES MINIMUM.
3. 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.
4. REINFORCING, INCLUDING DOWELS, SHALL BE SECURELY TIED AND CAST WITH THE LOWER MEMBER. PLACING REINFORCING AFTER CONCRETE HAS BEEN PLACED IS NOT PERMITTED.
5. FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR APPROVED BY STRUCTURAL ENGINEER.
6. PROVIDE DOWELS FROM FOUNDATION THE SAME GRADE, SIZE, AND NUMBER AS VERTICAL WALL REINFORCING, UNLESS NOTED OTHERWISE.
7. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS.
8. 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.
9. 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.
B. SLABS
1. PROVIDE SLAB BOLSTERS, HIGH CHAIRS, AND #5 SUPPORT BARS AS NECESSARY TO MAINTAIN PROPER PLACEMENT OF REINFORCING.

3.2 CAST-IN-PLACE CONCRETE
A. REINFORCED CONCRETE FOR SLAB ON METAL DECK SHALL MEET THE FOLLOWING REQUIREMENTS:
1. NORMAL WEIGHT CONCRETE WITH MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
2. MAXIMUM WATER/CEMENT RATIO: 0.45.
3. MINIMUM CEMENTITIOUS MATERIAL CONTENT: 540 LB/CU. YD.
4. SLUMP LIMIT: 4 INCHES, PLUS OR MINUS 1 INCH OR 8 INCHES, PLUS OR MINUS 1 INCH FOR CONCRETE WITH VERIFIED SLUMP OF 3 INCHES PLUS OR MINUS 1 INCH BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE AT THE PROJECT SITE.
5. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 1 PERCENT BY WEIGHT OF CEMENT.
B. REINFORCED CONCRETE FOR EXTERIOR RETAINING WALL AND FOOTING SHALL MEET THE FOLLOWING REQUIREMENTS:
1. NORMAL WEIGHT CONCRETE WITH MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
2. MAXIMUM WATER/CEMENT RATIO: 0.40.
3. MINIMUM CEMENTITIOUS MATERIAL CONTENT: 540 LB/CU. YD.
4. SLUMP LIMIT: 4 INCHES, PLUS OR MINUS 1 INCH OR 8 INCHES, PLUS OR MINUS 1 INCH FOR CONCRETE WITH VERIFIED SLUMP OF 3 INCHES PLUS OR MINUS 1 INCH BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE AT THE PROJECT SITE.
5. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 1 PERCENT BY WEIGHT OF CEMENT.
C. CEMENTITIOUS MATERIAL:
1. PORTLAND CEMENT: ASTM C150, TYPE I GAY.
2. FLY ASH: ASTM C618, CLASS C OR F WITH MAXIMUM LIMIT OF 25 PERCENT BY MASS.
D. ALL CONCRETE TO HAVE THE FOLLOWING UNIT WEIGHTS (+/- 3 PCF):
1. NORMAL WEIGHT CONCRETE: PLASTIC = 145 PCF
E. ALL CONCRETE EXPOSED TO FREEZING AND THAWING AND DEICER CHEMICALS SHALL HAVE 6% (+1%/-1.5%) AIR ENTRAINMENT MEETING ASTM C260. DO NOT AIR ENTRAIN CONCRETE TO BE TROWEL FINISHED.
F. MAXIMUM COARSE-AGGREGATE SIZE SHALL BE 3/4" MEETING ASTM C33.
G. 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.....3/4"
H. FOR CONCRETE CAST ON METAL DECK, CONCRETE THICKNESS INDICATED IS NOMINAL. CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITY AND SHALL PROVIDE A LEVEL, FINISHED SLAB ELEVATION.
I. CONSTRUCTION JOINTS IN WALLS SHALL BE KEYED AND PLACED AT LOCATIONS APPROVED BY ARCHITECT.
J. 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.
K. SEE ARCHITECTURAL DRAWINGS FOR WATERSTOPS.
L. AT FLOOR DRAINS, LOCALLY SLOPE FLOOR TOWARDS DRAIN. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR DRAIN LOCATIONS.
M. FOR EXTERIOR NON-STRUCTURAL FLATWORK (E.G., SIDEWALKS, PAVEMENT) REFERENCE CIVIL DOCUMENTS FOR SLOPES.

DIVISION 4 - CONCRETE MASONRY

4.1 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 TYPE M.
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".

4.2 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. JOINT REINFORCING SHALL BE LADDER TYPE CONFORMING TO ASTM A951, WITH PREFABRICATED CORNER AND TEE UNITS AT CORNERS AND INTERSECTIONS.
C. VERTICAL REINFORCING SHALL BE CENTERED IN WALL, UNLESS NOTED OTHERWISE.
D. JOINT REINFORCING SHALL BE LAPPED 6".
E. REINFORCE CONCRETE MASONRY VERTICALLY AS INDICATED IN THE STRUCTURAL DRAWINGS.
F. 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.
G. SPACE JOINT REINFORCEMENT AT 16" O.C. VERTICALLY TYPICAL AND AT 8" O.C. VERTICALLY AT PARAPETS AND AT CANTILEVERED WALLS, UNLESS NOTED OTHERWISE.
H. REINFORCE BOND BEAMS AS INDICATED IN THE STRUCTURAL DRAWINGS.

DIVISION 5 - METALS

5.1 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. 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 A36
c. BOLTS ASTM F3125, GRADE A325 HEAVY HEX HEAD OR GRADE F1852 TWIST-OFF, 3/4" DIAMETER (MIN.)
d. THREADED ROD ASTM A36, UNLESS NOTED OTHERWISE
e. ELECTRODES MATCHING STRENGTH, 70 KSI MIN.
3. WHERE ITEMS ARE TO BE ANCHORED TO CONCRETE OR MASONRY USE STANDARD SIZED HOLES IN STEEL MEMBER, UNLESS NOTED OTHERWISE.
4. USE PREQUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND AWS D1.1. NON-PREQUALIFIED JOINTS SHALL BE QUALIFIED PRIOR TO FABRICATION.

B. POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY
1. POST INSTALLED ANCHORS SHALL BE AS INDICATED.
2. WHEN INSTALLING POST INSTALLED ANCHORS:
a. THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) SHALL BE FOLLOWED.
b. DO NOT CUT EXISTING REINFORCING.
c. ADHESIVE USED IN AN ADHESIVE ANCHOR SYSTEM SHALL BE STORED AT THE SERVICE TEMPERATURE RANGE RECOMMENDED BY THE MANUFACTURER.
d. ANCHORS TO BE INSTALLED IN ADHESIVE SHALL BE CLEAN, OIL FREE AND FREE OF RUST, PAINT OR OTHER COATINGS.
e. ADHESIVE ANCHORS SHALL BE SECURELY PLACED TO PREVENT DISPLACEMENT OR DISTURBANCE WHILE THE ADHESIVE CURES. IF AN ANCHOR IS DISPLACED OR DISTURBED BEFORE A FULL ADHESIVE CURE IT SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
f. UNLESS NOTED OTHERWISE, ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE SUPPORTING SURFACE WITH A MAXIMUM 6-DEGREE TOLERANCE AS SPECIFIED IN THE ICC-ESR UNLESS NOTED OTHERWISE.
g. INSTALL ANCHORS TO ACCOMMODATE THE STANDARD HOLE SIZE IN THE SUPPORTED STEEL MEMBER PER AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. USE PLATE WASHERS WITH A STANDARD SIZE HOLE BONDED TO STEEL MEMBERS WHERE OVERSIZED HOLES MUST BE USED THROUGH THE STEEL MEMBER.
h. HOLES SHALL BE DRILLED AND INSTALLED PER THE MPII AS OUTLINED IN THE ESR. WHERE APPLICABLE, INSTALLATION SHALL ALSO FOLLOW PROPER CLEANING PROCEDURE AS INDICATED IN THE MPII AS OUTLINED IN THE ESR. HOLES SHALL BE DRILLED WITH A ROTARY IMPACT HAMMER DRILL OR ROCK DRILL, DO NOT CORE DRILL HOLES.
3. ALL PERSONNEL INSTALLING ANCHORS SHALL BE TRAINED AND CERTIFIED BY THE ANCHORING SYSTEM MANUFACTURER. CONTRACTOR SHALL SUBMIT CERTIFICATION FROM THE MANUFACTURER ON ALL PERSONNEL. CERTIFICATION BY MANUFACTURER IS VALID FOR ONE YEAR. ALL PERSONNEL INSTALLING ADHESIVE ANCHORS IN A HORIZONTAL OR OVERHEAD CONDITION SHALL BE TRAINED AND CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM FOR SUCH APPLICATIONS. NOTE SOME ANCHORS INSTALLED IN POSITIONS OTHER THAN HORIZONTAL OR OVERHEAD HAVE SUSTAINED LOADS. THESE ANCHORS WILL BE NOTED WITH A (CERT) CALL OUT AFTER THE ANCHOR NOTE. THESE ANCHORS SHALL ALSO BE INSTALLED BY A TRAINED AND CERTIFIED INSTALLER. CONTRACTOR SHALL SUBMIT CERTIFICATION FROM ACI/CRSI ON ALL PERSONNEL. IF FAILURES OCCUR AT ANY TIME DURING TESTING OR CONSTRUCTION, THEN PERSONNEL SHALL BE RETRAINED AND RECERTIFIED.
4. POST INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER PRIOR TO USING POST INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST IN PLACE ANCHORS.

5.2 METAL DECK

A. GENERAL
1. METAL DECK FABRICATION AND ERECTION SHALL COMPLY WITH SDI "CODE OF STANDARD PRACT

SPECIAL INSPECTION TABLES

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	B/
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

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 2015 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: CONTINUOUS	TYPE OF INSPECTION: PERIODIC	REMARKS
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	

SOILS

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION: CONTINUOUS	TYPE OF INSPECTION: PERIODIC	REMARKS
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: CONTINUOUS	TYPE OF INSPECTION: PERIODIC	REMARKS
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.

WELDED STEEL CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION: PERFORM FOR EACH STEEL ELEMENT	TYPE OF INSPECTION: OBSERVE ON A RANDOM BASIS	REMARKS
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		

STEEL DECKING CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION: PERFORM FOR EACH STEEL ELEMENT	TYPE OF INSPECTION: OBSERVE ON A RANDOM BASIS	REMARKS
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: PERFORM FOR EACH STEEL ELEMENT	TYPE OF INSPECTION: OBSERVE ON A RANDOM BASIS	REMARKS
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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3/15/24
Jason N Richards
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Expires: 12/31/24

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Proposed:
Mehlville Fire House No. 5
11020 MUELLER ROAD

Revision	No.	Date

SPECIAL INSPECTIONS

Project No.
2300102

Sheet No.
S102

Date
03/15/2024

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" 6" 3" 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
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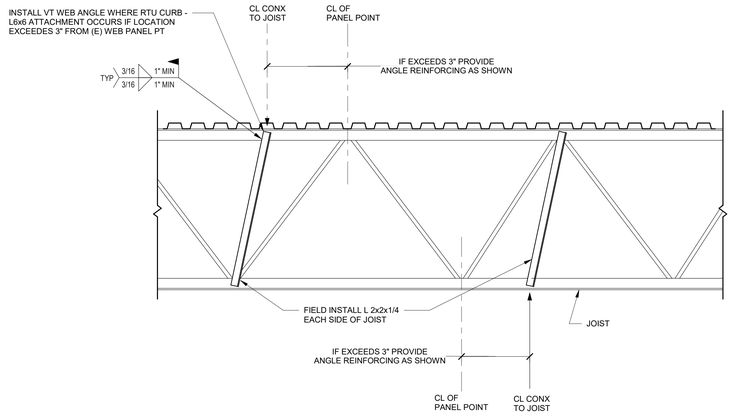
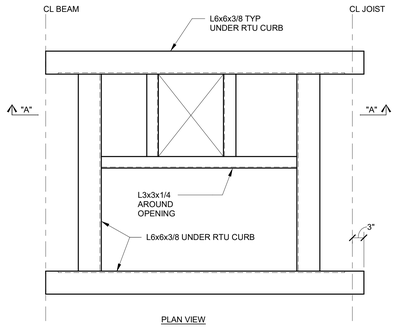
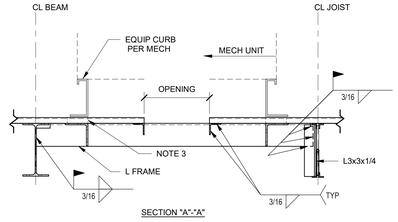


NOTE:
1. L2x2 STRUT REQD WHERE THE SUM OF CONCENTRATED LOADS WITHIN A CHORD PANEL EXCEEDS 100 POUNDS AND/OR THE LOAD IS NOT APPLIED CONCENTRIC TO THE CHORD.

2 / S103 TYPICAL JOIST REINFORCING AT CONCENTRATED LOADS
NTS



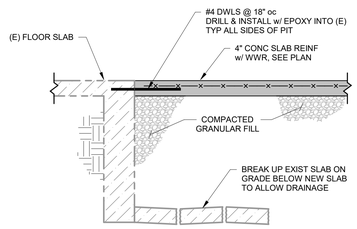
PLAN VIEW



SECTION "A"-"A"

1. COORDINATE SIZE & LOCATION OF OPENINGS w/ ARCHITECTURAL & MECHANICAL DRAWINGS.
2. PROVIDE FRAME FOR ALL OPENINGS OVER 12".
3. PROVIDE BLOCKING BETWEEN DECK RIBS.
4. LOCATE CURB OVER VERTICAL LEG OF L6x6.

1 / S103 TYPICAL ROOF TOP UNIT CURB SUPPORT DETAIL
NTS



3 / S103 TYPICAL EXISTING PIT INFILL FLOOR SLAB DETAIL
3/4" = 1'-0"

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JASON N. RICHARDS
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REGISTERED PROFESSIONAL ENGINEER
3/15/24

Jason N Richards
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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

TYPICAL DETAILS

Project No. 2300102
Sheet No. S103
Date 03/15/2024

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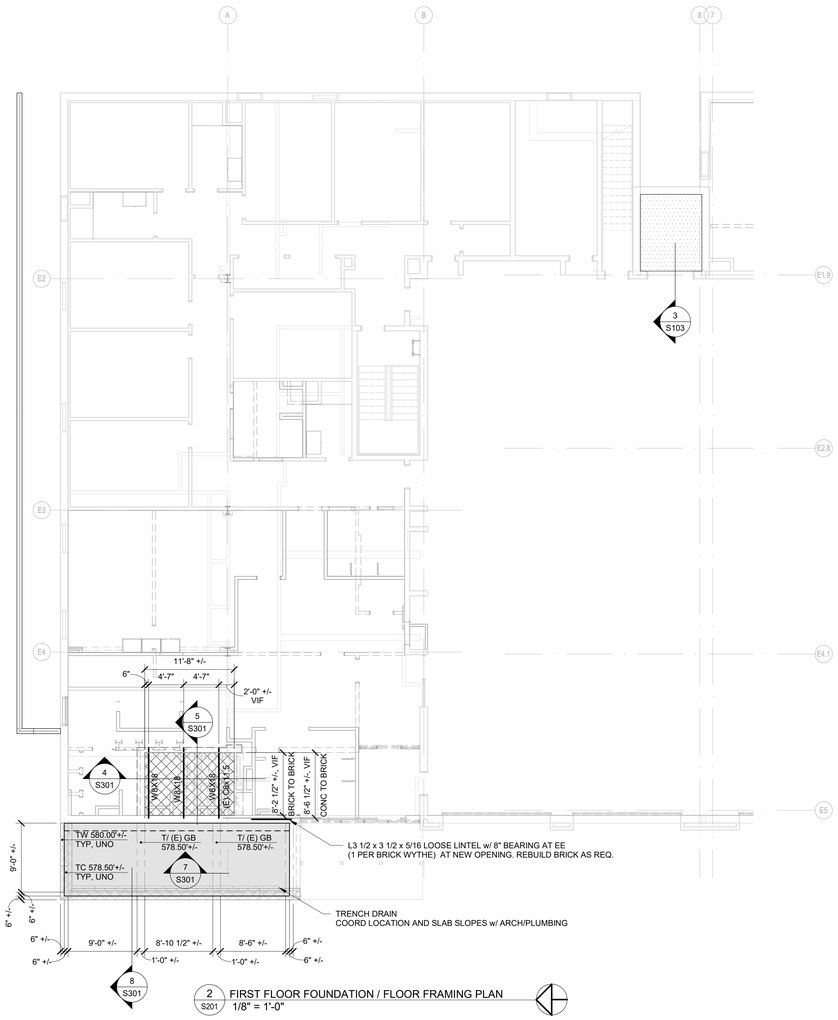
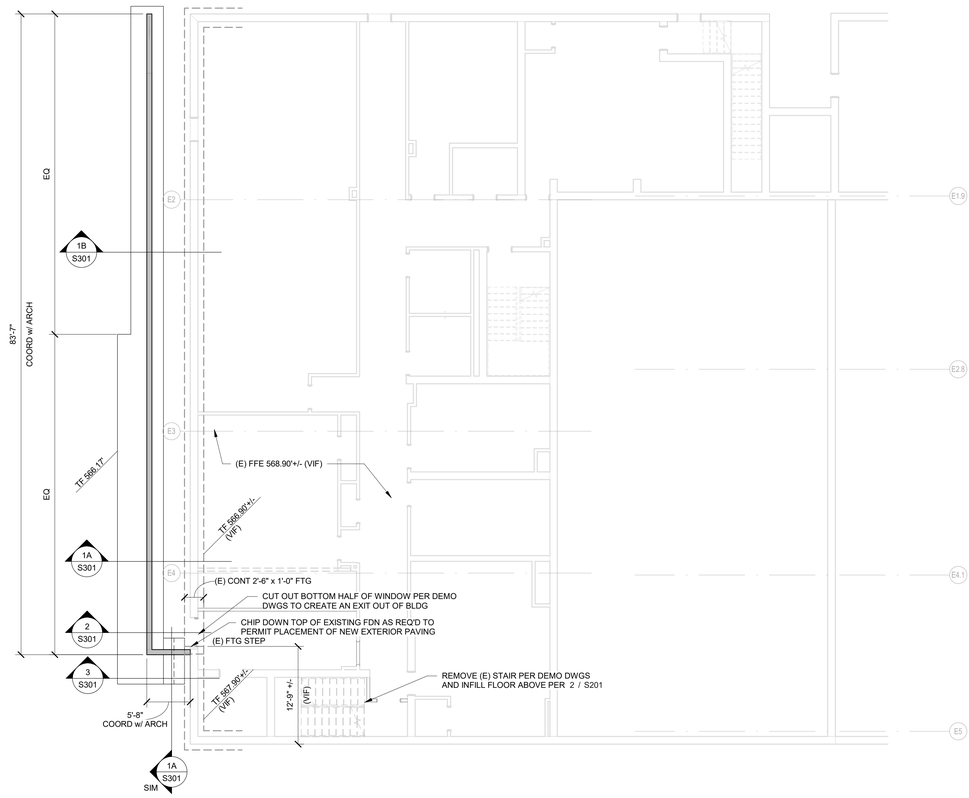


2 S201 FIRST FLOOR FOUNDATION / FLOOR FRAMING PLAN
1/8" = 1'-0"



1 S201 LOWER LEVEL FOUNDATION PLAN
1/8" = 1'-0"

NOTES:
1. INDICATES FLOOR CONSTRUCTION TO BE 3" NORMAL WEIGHT CONCRETE SLAB ON 1 1/2" x 22 GA COMPOSITE METAL DECK (4 1/2" TOTAL THICKNESS) REINFORCED w/ 6x6-W2.1xW2.1 WWR.
2. (E) FIN FLR EL 580.00'+/- VIF.
3. INDICATES 6" SLAB ON GRADE REINF w/ #4 @ 18" oc, EW w/ CONTROL JOINTS @ 15' MAX oc, EW ON 4" GRANULAR FILL.
4. INDICATES 4" SLAB ON GRADE REINF w/ WWR 6x6x2.1x2.1 ON 10 MIL VAPOR RETARDER ON COMPACTED GRANULAR FILL.

THE DIMENSIONS AND ELEVATIONS SHOWN FOR THE EXISTING CONSTRUCTION ARE NOT AS-BUILT DIMENSIONS BUT WERE OBTAINED FROM FIELD MEASUREMENTS, OTHER DRAWINGS, AND DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND MEMBER SIZES AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION, FABRICATION, ETC.

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

FOUNDATION & FRAMING PLANS

Project No.
2300102
Sheet No.
S201
Date
03/15/2024

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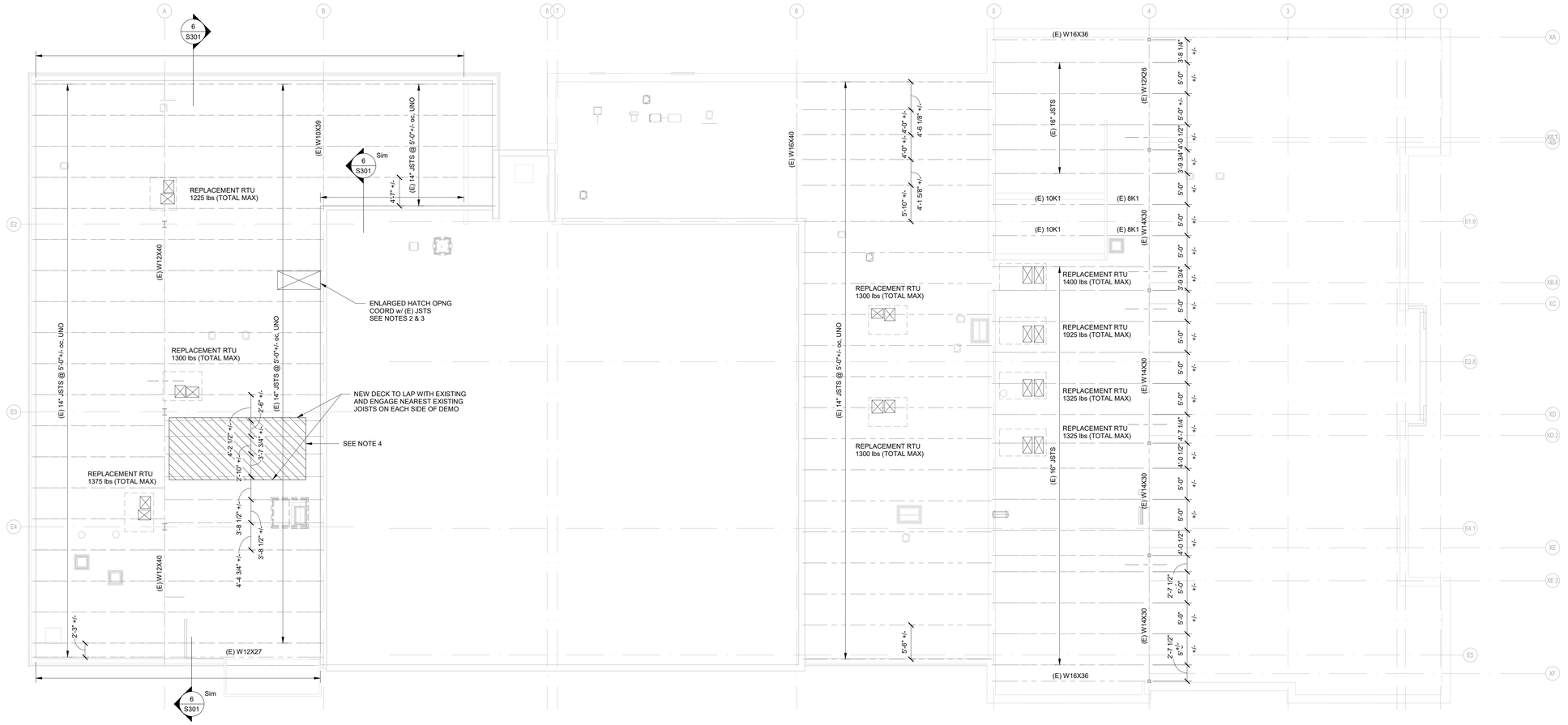

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1 S202 ROOF FRAMING PLAN
1/8" = 1'-0"

NOTES:
1. (E) ROOF CONSTRUCTION IS 1.5" METAL ROOF DECK ON BAR JOISTS. BMD VARIES.
2. SEE DETAIL 1 / S103 FOR NEW DECK EDGE SUPPORT WHERE NEW RTU CURB SIZES DONT MATCH EXISTING SIZES. USE SIMILAR L6X6X3/8 FRAME AT ENLARGED OPENING FOR ROOF ACCESS HATCH.
3. SEE DETAIL 2 / S103 FOR LOCAL JOIST STRENGTHENING WHERE FRAME ANGLES FALL AWAY FROM JOIST CHORDS.
4. ▭ INDICATES TO SEE ARCH FOR EXTENTS OF DEMO OF (E) CURB AND RAISED ROOF. INFILL w/ NEW 1.5" x 20 GA ROOF DECK. SEE GENERAL NOTES FOR ATTACHMENT TO SUPPORTING (E) STRUCTURE.

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

ROOF FRAMING PLAN

Project No.
2300102

Sheet No.
S202

Date
03/15/2024

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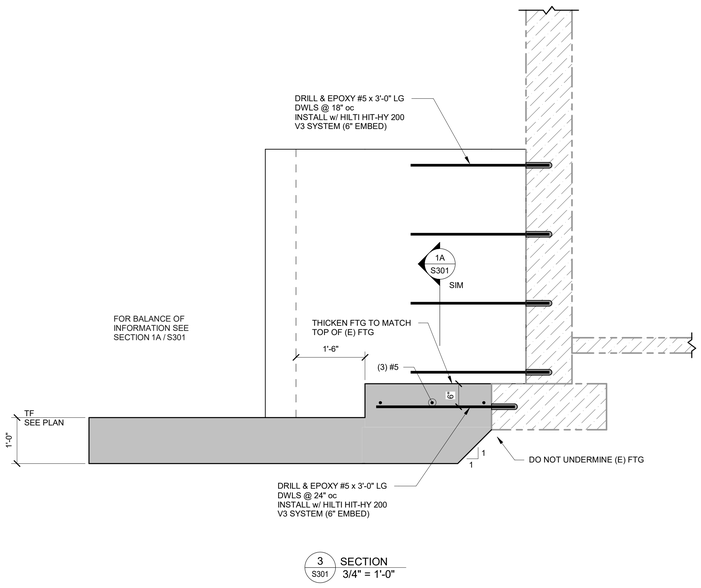
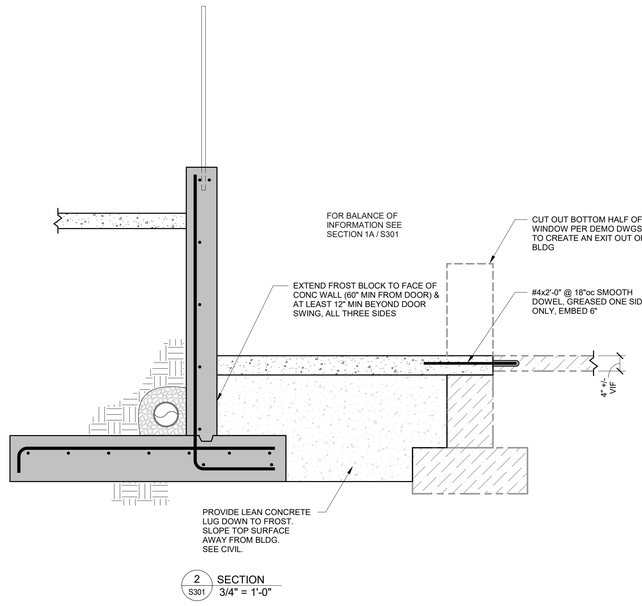


3 S301 SECTION 3/4" = 1'-0"



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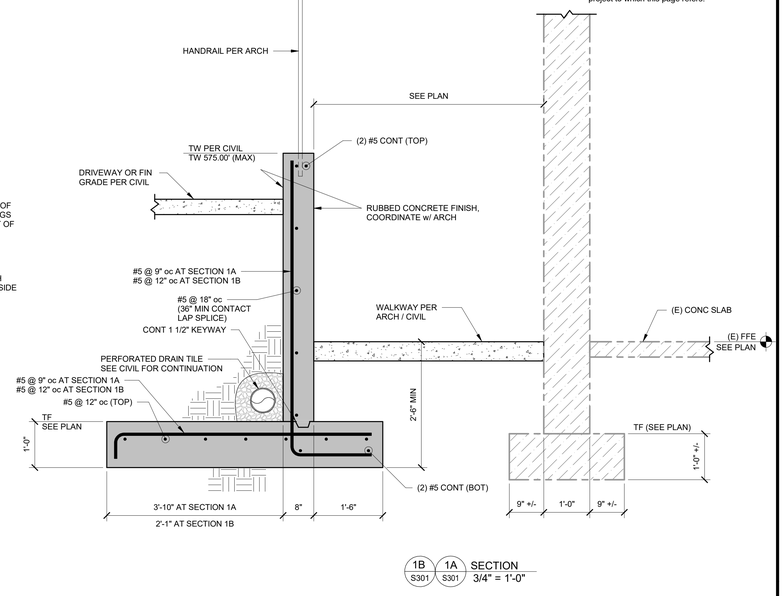
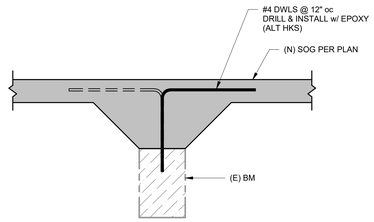


1B 1A S301 SECTION 3/4" = 1'-0"

5 S301 SECTION 3/4" = 1'-0"

4 S301 SECTION 3/4" = 1'-0"

8 S301 SECTION 3/4" = 1'-0"



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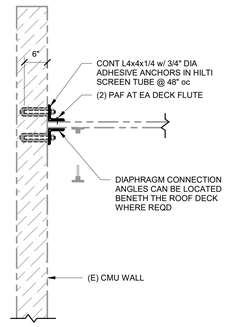

6 S301 SECTION 3/4" = 1'-0"

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

SECTIONS & DETAILS

Project No.
2300102

Sheet No.
S301

Date
03/15/2024

3/15/2024 9:24:33 AM
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SCALE: 3" = 1'-0" 0 3" 6" 1'
SCALE: 1 1/2" = 1'-0" 0 3" 6" 1' 2'
SCALE: 1" = 1'-0" 0 6" 1' 2'
SCALE: 3/4" = 1'-0" 0 1' 2' 3'
SCALE: 1/2" = 1'-0" 0 1' 2' 4'
SCALE: 3/8" = 1'-0" 0 2' 4' 6'
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'

GENERAL SYMBOLS

- THERMOSTAT
- THERMOSTAT (INSULATED SUB-BASE)
- THERMOSTAT (WITH GUARD)
- THERMOSTAT (NIGHT)
- NITROGEN DIOXIDE SENSOR
- CARBON MONOXIDE SENSOR
- CARBON DIOXIDE SENSOR
- HAND-AUTO CONTROL
- HUMIDISTAT
- SENSOR (T = TEMPERATURE H = HUMIDITY)
- REFRIGERANT LEAK DETECTION
- 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
- 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) DIRECTION SHOWN RELATIVE TO AIRFLOW
- TURNING VANES
- EXISTING EQUIPMENT OR DUCTWORK SHOWN LIGHT 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
- EXISTING TO BE REMOVED
- WATER METER (FLOW TOTALIZING TYPE)
- STEAM TRAP: IB = INVERTED BUCKET; FT = FLOAT & THERMOSTATIC; TD = THERMODYNAMIC DISK
- FLOW OR TEMPERATURE SWITCH

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
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
DC	DUCT COIL
DFH	DEAERATING FEEDWATER HEATER
DG	DOOR GRILLE
DP	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ER	EXHAUST REGISTER
ERH	ELECTRIC RADIANT HEATER
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
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
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 ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL CEILING AIR DEVICE LOCATIONS.
6. REFER TO 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 AT ALL SUPPLY, RETURN AND EXHAUST DUCT BRANCH TAKE-OFFS WHERE INDICATED. REFER TO THE AIR DEVICE SCHEDULE.
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. COORDINATE SCHEDULE FOR HOOKUPS TO EXISTING SYSTEM AND REMOVAL OR RELOCATION OF EQUIPMENT WITH THE OWNER. PERFORM THIS WORK AT SUCH TIMES TO ENSURE THAT PERIODS OF SHUTDOWN WILL BE ACCEPTABLE TO THE OWNER.
14. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
15. COORDINATE INSTALLATION OF NEW DUCTWORK AND PIPING WITH EXISTING BUILDING STRUCTURE, DUCTWORK, PIPING, ELECTRICAL CONDUIT, LIGHTING, ETC.
16. TAKE DOWN AND REINSTALL EXISTING CEILINGS IN ALL AREAS WHERE MECHANICAL WORK IS INDICATED AND EXISTING CEILINGS REMAIN. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS WHERE EXISTING CEILINGS REMAIN. REPLACE CEILING TILES DAMAGED DURING WORK.
17. 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.
18. 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.
19. REFRIGERANT PIPING TO BE SIZED BY EQUIPMENT MANUFACTURER.
20. 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.

DEMOLITION NOTES

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS. SPECIFICATIONS AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS.
2. ALL ELBOWS, FITTINGS, ETC. IN PIPING AND DUCTWORK ARE NOT NECESSARILY INDICATED.
3. 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.
4. DASHED LINETYPE INDICATES ITEMS TO BE REMOVED.
5. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING OF FLOOR(S), WALL(S), ROOF AND/OR CEILING REMOVAL AND REPLACEMENT IN AREAS WHERE THE ONLY WORK IS MECHANICAL.
7. CONTRACTOR SHALL USE CAUTION WHEN REMOVING DUCTS, PIPING, EQUIPMENT, ETC. TO AVOID DAMAGE TO ELECTRICAL WIRING, CONTROL WIRING, PIPING, ETC. THAT IS TO REMAIN. NOTIFY GC AND EC IF WIRING IS FOUND ATTACHED TO DUCTWORK.
8. WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC. ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC. UNLESS NOTED OTHERWISE AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING AREAS.
9. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
10. WHERE POWERED AND/OR CONTROLLED EQUIPMENT OR ACCESSORIES ARE REMOVED AND WIRING IS NOT TO BE REUSED, REMOVE ALL WIRING BACK TO PANEL UNLESS NOTED OTHERWISE. MODIFY CONTROLS SYSTEM WHERE APPLICABLE TO REMOVE DEMOLISHED ITEM.

ROOF PROTECTION:

1. CONTRACTOR SHALL WALK ROOF WITH OWNER PRIOR TO START OF CONSTRUCTION AND DOCUMENT CONDITIONS. ANY DAMAGE DISCOVERED SHALL BE DOCUMENTED WITH PHOTOGRAPHS, REPORT SHALL BE SIGNED BY THE OWNER AND CONTRACTOR.
2. PROVIDE A LAYER OF 3/4" PLYWOOD OVER ALL WALKING PATHS AND AT ALL LOCATIONS WHERE EQUIPMENT, TOOLS, ETC. ARE LAID DOWN. NO MATERIALS, TOOLS, ETC. SHALL BE LEFT ON THE ROOF OVERNIGHT.
3. CONTACT OWNER'S ROOFING COMPANY PRIOR TO START OF CONSTRUCTION TO DETERMINE ADDITIONAL REQUIREMENTS FOR ROOF PROTECTION TO MAINTAIN ROOF WARRANTY

ANCHORAGE AND SWAY BRACING FOR MECHANICAL SYSTEM COMPONENTS RELATED TO SEISMIC 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 ACHORAGE 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 IP=1.5							
FIRE DAMPERS		X		X		X	
HAZARDOUS EQUIPMENT AND SYSTEM COMPONENTS IP=1.5							
NATURAL GAS PIPING 1" OR LESS (INTERIOR & EXTERIOR)	X		X				NOTE 5A
NATURAL GAS PIPING > 1" OR NON-DUCTILE (INTERIOR)							
EXTERIOR NATURAL GAS PIPING > 1"							
OTHER EQUIPMENT & SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF OCCUPANCY CATEGORY IV FACILITIES OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION							
OTHER GENERAL EQUIPMENT & SYSTEM COMPONENTS IP=1.5							
ROOFTOP AIR HANDLING UNITS		X		X		X	
DUCTWORK	X		X				NOTE 3
EXHAUST FAN		X		X		X	
REFRIGERANT PIPING	X		X				NOTE 5A
CONDENSATE DRAIN PIPING	X		X				NOTE 5A
DIFFUSER, REGISTERS, & GRILLES	X		X				NOTE 4
CONDENSING UNIT < 400 LBS.			X				NOTE 2A

NOTES:
1. SEISMIC DESIGN CATEGORY C AND THE COMPONENT IMPORTANCE FACTOR IP=1.0.
2. SEISMIC DESIGN CATEGORY D, E OR F, AND THE COMPONENT IMPORTANCE FACTOR IP=1.0, AND COMPONENTS HAVE APPROVED FLEXIBLE CONNECTIONS AND LESS THAN 3 FEET IN LENGTH AND ARE
   a. EITHER MOUNTED 4 FEET OR LESS ABOVE THE FLOOR LEVEL AND WEIGH 400 POUNDS OR LESS OR
   b. WEIGH 20 LBS OR LESS.
3. EXEMPT; TABLE 4.4, EXCEPTION FOR DUCTWORK "b" - DUCTWORK HAS A CROSS-SECTION AREA OF LESS THAN 6 FT. SQ.
4. COMPONENT SHALL BE POSITIVELY ATTACHED WITH MECHANICAL FASTENERS.
5A. EXEMPT; TABLE 4.4, EXCEPTION FOR PIPING 3.A - NOMINAL PIPE SIZE OF 1 IN. OR LESS, SEISMIC DESIGN CATEGORY D, E OR F, AND IP>1.0.
5B. EXEMPT; TABLE 4.4, EXCEPTION FOR PIPING 3.B - NOMINAL PIPE SIZE OF 2 IN. OR LESS, SEISMIC DESIGN CATEGORY G AND IP>1.0.
5C. EXEMPT; TABLE 4.4, EXCEPTION FOR PIPING 3.C - NOMINAL PIPE SIZE OF 3 IN. OR LESS, SEISMIC DESIGN CATEGORY D, E OR F, AND IP=1.0.

EXPLANATORY NOTES:
1. PLANS SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER 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 SUSPENED FROM STRUCTURE, UNLESS EXEMPT.
3. ANCHORAGE & BRACING CONTRACTOR SHALL REFER TO SPECIFICATIONS AS WELL AS TO ST. LOUIS COUNTY RULES & REGULATIONS ON SEISMIC ANCHORAGE & SWAY BRACING (DATED 6/30/2020).
4. ALL SEISMIC SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE CODE REVIEWER.

STATE OF MISSOURI — RICHARD W. HALTEMAN — NUMBER PE-25112 — PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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REGISTERED: STATE OF MISSOURI
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

MECHANICAL SYMBOLS AND ABBREVIATIONS

Project No. 22135
Sheet No. M001
Date 03/15/2024

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

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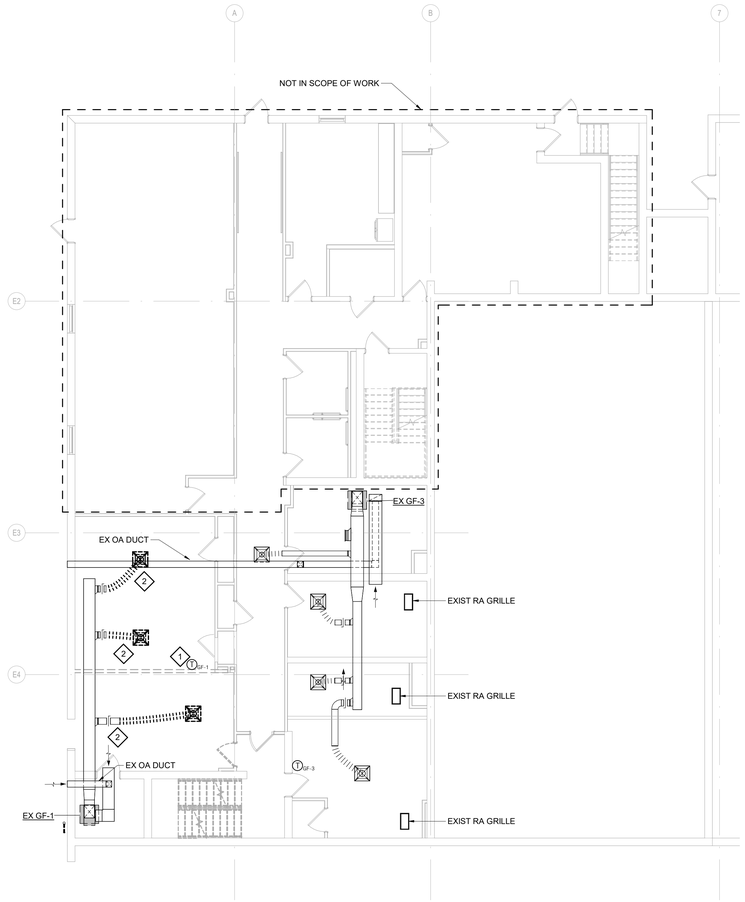


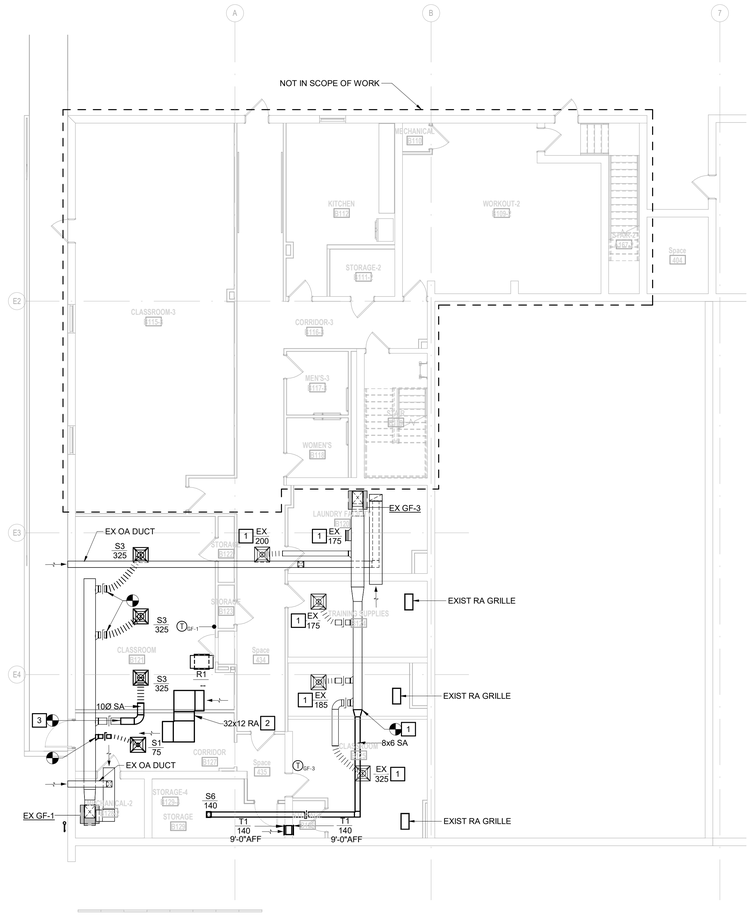
LOWER LEVEL MECHANICAL DEMO PLAN - BASE BID

1/8" = 1'-0"

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

M100 DEMO KEYED NOTES

1. REMOVE EXISTING THERMOSTAT AND STORE SAFELY. REFER TO NEW WORK PLAN FOR NEW LOCATION. PROVIDE NEW CONTROL WIRING FROM UNIT TO NEW THERMOSTAT LOCATION.
2. REMOVE EXISTING AIR DEVICE AND FLEXIBLE DUCTWORK.



LOWER LEVEL MECHANICAL NEW WORK PLAN - BASE BID

1/8" = 1'-0"

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

M200 KEYED NOTES

1. EXISTING AIR DEVICE TO BE REBALANCE TO CFM INDICATED.
2. INSTALL NEW PLENUM TRANSFER DUCT ABOVE CEILING.
3. EXTEND EXISTING DUCT AS SHOWN.

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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Revision	Date

LOWER LEVEL MECHANICAL PLANS

Project No. 22135

Sheet No. M100

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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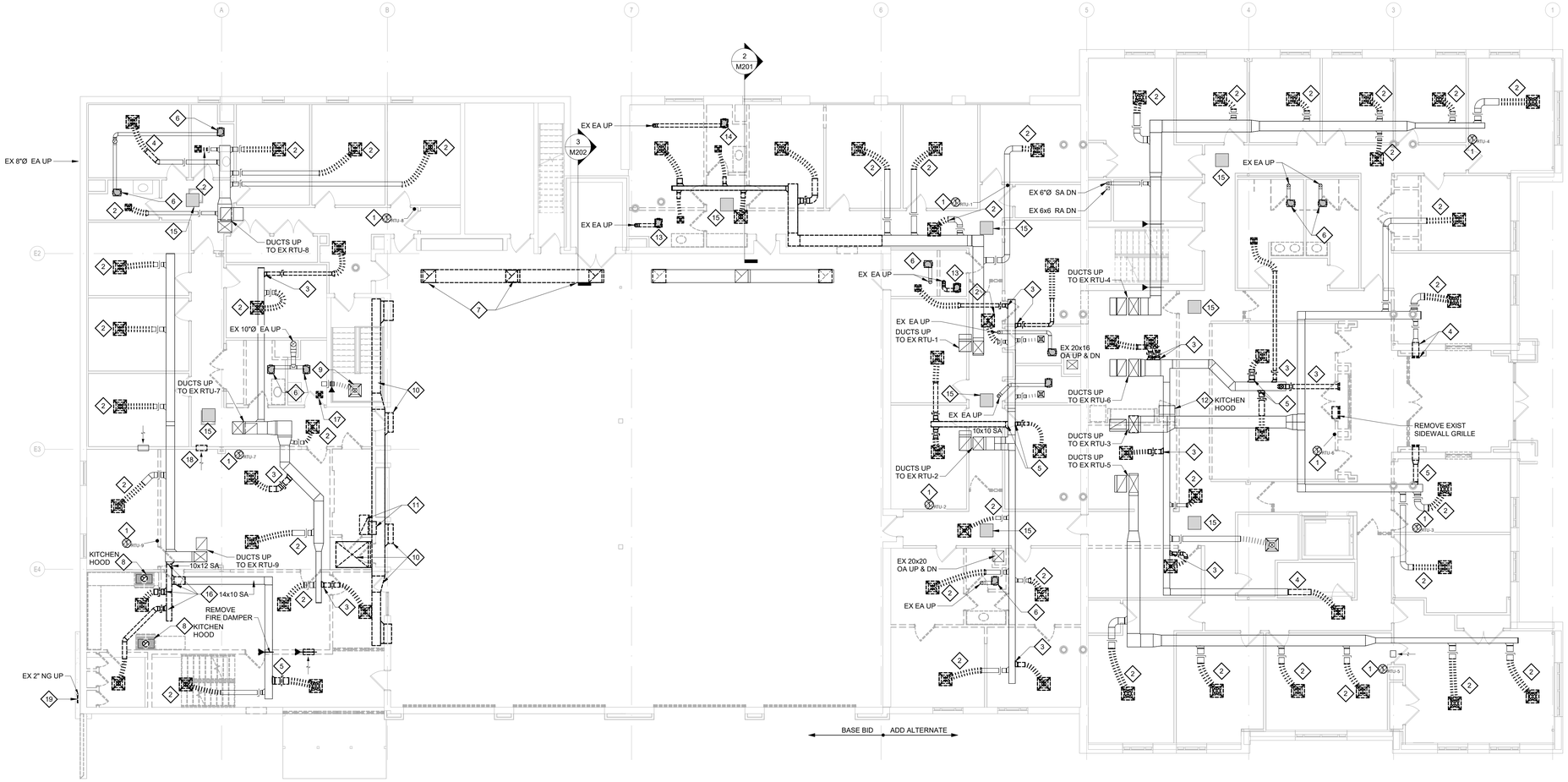
SCALE: 3" = 1'-0" 0 3" 6" 1'
SCALE: 1 1/2" = 1'-0" 0 3" 6" 1' 2'
SCALE: 1" = 1'-0" 0 6" 1' 2'
SCALE: 3/4" = 1'-0" 0 1' 2' 3'
SCALE: 1/2" = 1'-0" 0 4" 8" 1' 2'
SCALE: 1/2" = 1'-0" 0 1' 2'
SCALE: 3/8" = 1'-0" 0 2' 4' 6' 8'
SCALE: 1/4" = 1'-0" 0 2' 4' 8' 16'
SCALE: 1/8" = 1'-0" 0 4' 8' 16'
SCALE: 3/32"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



1 FIRST FLOOR MECHANICAL DEMO PLAN

1/8" = 1'-0"

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

M101 DEMO KEYED NOTES

#	
1	REMOVE EXISTING THERMOSTAT. REMOVE CONTROL WIRING BACK TO EXISTING ROOFTOP UNIT.
2	REMOVE EXISTING AIR DEVICE AND ALL ASSOCIATED FLEXIBLE DUCTWORK BACK TO BRANCH RIGID DUCTWORK.
3	REMOVE EVERYTHING DOWNSTREAM FROM THIS BRANCH POINT, INCLUDING SPIN-IN FITTING. PATCH AND SEAL EXISTING OPENING TO AN AIRTIGHT FINISH.
4	REMOVE EXISTING AIR DEVICE AND ASSOCIATED PARTIAL SECTION OF RIGID DUCTWORK.
5	REMOVE EVERYTHING DOWNSTREAM FROM THIS BRANCH POINT, INCLUDING SPIN-IN FITTING. PREPARE EXISTING MAIN DUCTWORK OPENING FOR NEW CONNECTION.
6	REMOVE EXISTING CEILING EXHAUST FAN AND STORE SAFE TO ALLOW FOR INSTALLATION OF NEW CEILING. REINSTALL ONCE NEW CEILING HAS BEEN INSTALLED.
7	REMOVE EXISTING EXHAUST AIR DUCTWORK AND VERTICAL RISER.
8	REMOVE EXISTING KITCHEN HOOD, INCLUDING DISCHARGE DUCTWORK THROUGH THE ROOF. GAS PIPING SHALL BE CAPPED AT BRANCH PIPING. ROOF OPENING SHALL BE PATCHED AND SEALED TO MATCH EXISTING CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
9	EXISTING AIR DEVICE AND ASSOCIATED DUCWORK AND FIRE DAMPER LOCATED IN STAIRS TO REMAIN. DEMOLISH ASSOCIATED BRANCH DUCTWORK BACK TO MAIN AND CAP AIR TIGHT. PATCH INSULATION TO MATCH EXISTING.
10	REMOVE EXISTING DUCTWORK FROM OUTSIDE AIR HOOD CONNECTING TO HORIZONTAL SOFFIT DUCTWORK AND EXISTING SIDEWALL GRILLES.
11	REMOVE EXISTING VERTICAL DUCT RISER AND LOW WALL GRILLE.
12	REMOVE EXISTING RECIRCULATING KITCHEN HOOD.
13	REMOVE EXISTING CEILING EXHAUST FAN, INCLUDING DISCHARGE DUCTWORK THROUGH THE ROOF. ROOF OPENING SHALL BE PATCHED AND SEALED TO MATCH EXISTING CONDITIONS.
14	EXISTING CEILING EXHAUST FAN TO BE REUSED IN NEW TLT#5 RM 224, REMOVE DISCHARGE DUCTWORK THROUGH THE ROOF. ROOF OPENING SHALL BE PATCHED AND SEALED TO MATCH EXISTING CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
15	EXISTING SKYLIGHT.
16	REMOVE EXISTING 10X12 SECTION OF DUCTWORK AND TWO BRANCH DUCTS. ALSO REMOVE PARTIAL SECTION OF 14X10 DUCT TO ACCOMMODATE INSTALLATION OF NEW KITCHEN HOOD AND FAN DISCHARGE DUCTWORK. SEE NEW WORK PLAN FOR DUCTWORK MODIFICATIONS.
17	DEMOLISH EXISTING AIR DEVICE AND ASSOCIATED BRANCH DUCTWORK BACK TO MAIN AND CAP MAIN AIRTIGHT. PATCH INSULATION TO MATCH EXISTING AFTER NEW CONNECTIONS TO MAIN ARE MADE.
18	EXISTING TRANSFER OPENING SHALL BE CAPPED AT BOTH ENDS.
19	REMOVE SECTION OF EXISTING GAS PIPING TO EXIST BBQ LOCATION.

M101 GENERAL NOTES

1. REFER TO DRAWING M001 FOR GENERAL DEMOLITION NOTES.
2. CONTRACTOR SHALL VERIFY EXISTING DUCTWORK ROUTING AND NOTIFY ENGINEER OF ANY MAJOR SYSTEM DUCT ROUTING DEVIATIONS PRIOR TO NEW WORK INSTALLATION.
3. EXISTING PLENUM CEILING RETURN AIR DEVICES ARE NOT SHOWN. CONTRACTOR SHALL REMOVE ALL OF THEM.

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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

FIRST FLOOR MECHANICAL DEMO PLAN

Project No. 22135

Sheet No. M101

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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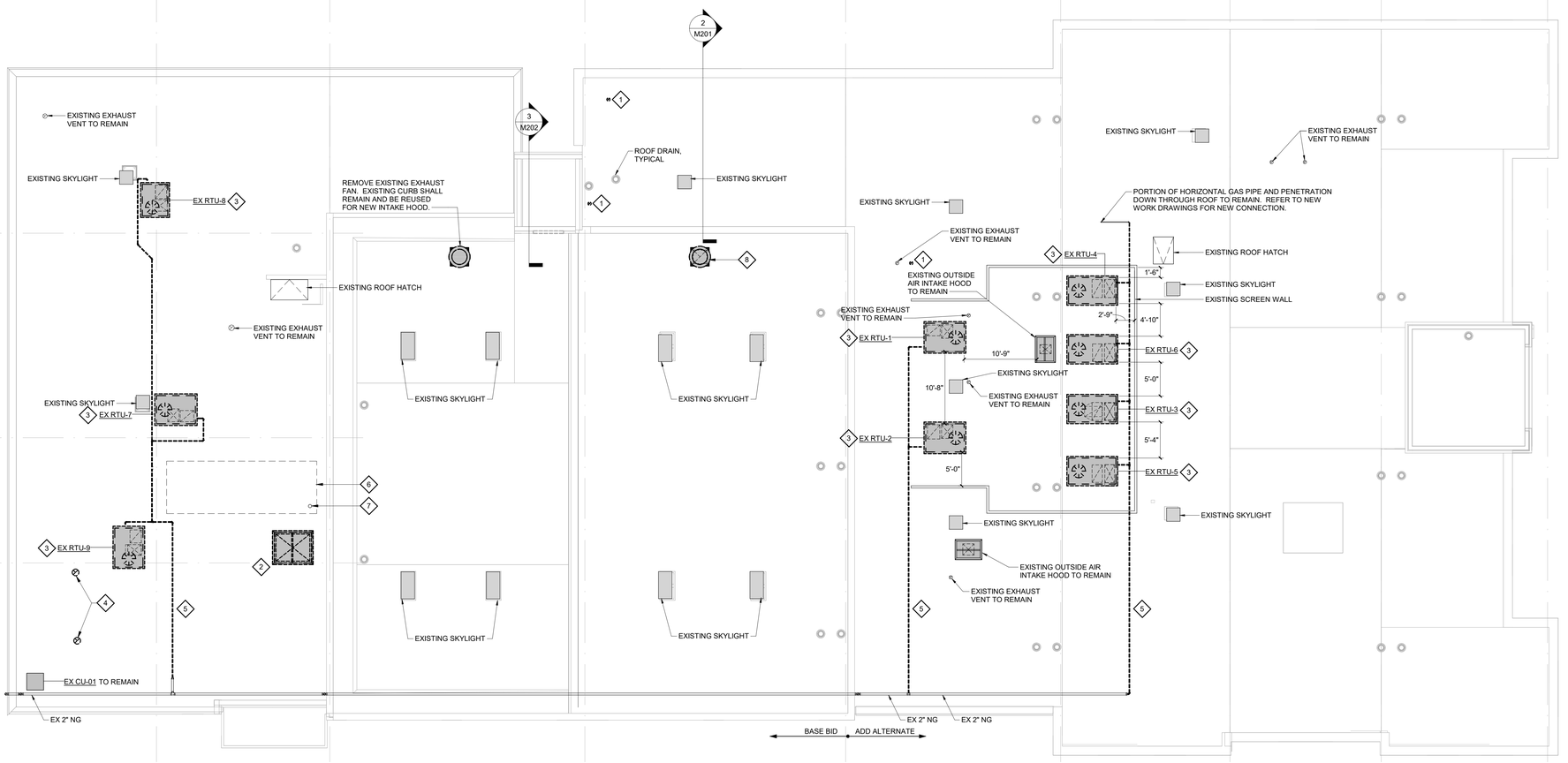

1 ROOF MECHANICAL DEMO PLAN

1/8" = 1'-0"

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

M102 DEMO KEYED NOTES

1. DEMOLISH EXHAUST DUCT FROM FAN BELOW. PATCH ROOF TO MATCH EXISTING. REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
2. DEMOLISH EXISTING OA HOOD AND ASSOCIATED CURB. PATCH EXISTING ROOF TO MATCH EXISTING. A PORTION OF THE EXISTING OPENING WILL BE REUSED FOR THE NEW INTAKE HOOD. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
3. DEMOLISH EXISTING ROOFTOP UNIT. DEMOLISH EXISTING GAS SERVICE, INCLUDING REGULATOR, TO POINT SHOWN. EXISTING CURB AND ASSOCIATED DUCTWORK SHALL REMAIN. REFER TO NEW WORK SHEET FOR NEW CONNECTIONS.
4. DEMOLISH EXISTING KITCHEN HOOD EXHAUST DUCT THROUGH ROOF. PATCH ROOF TO MATCH EXISTING. REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
5. REMOVE PORTION OF GAS PIPING SHOWN DASHED BACK TO MAIN. REMOVE ALL ASSOCIATED SUPPORTS. REFER TO NEW WORK SHEET FOR NEW CONNECTION TO EXISTING PIPING.
6. DEMOLISH EXISTING CURB CAP AND ASSOCIATED ROOF CURB. PATCH ROOF TO MATCH EXISTING. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR INFIL AND PATCHING REQUIREMENTS.
7. REMOVE PORTION OF EXISTING PLUMBING VENT AS REQUIRED FOR REMOVAL OF CURB CAP AND PATCHING OF ROOF. PROVIDE NEW VENT PIPE THROUGH ROOF AND ATTACH TO EXISTING VENT BELOW.
8. VERIFY EXISTING EQUIPMENT EQUIPMENT CURB SIZE IS ADEQUATE FOR NEW EXHAUST FAN INSTALLATION. IF NOT, CONTRACTOR SHALL REMOVE EXISTING EQUIPMENT CURB.

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Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

ROOF MECHANICAL DEMO PLAN

Project No. 22135

Sheet No. M102

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No. PE-25112
Expiration Date: 12/31/2024

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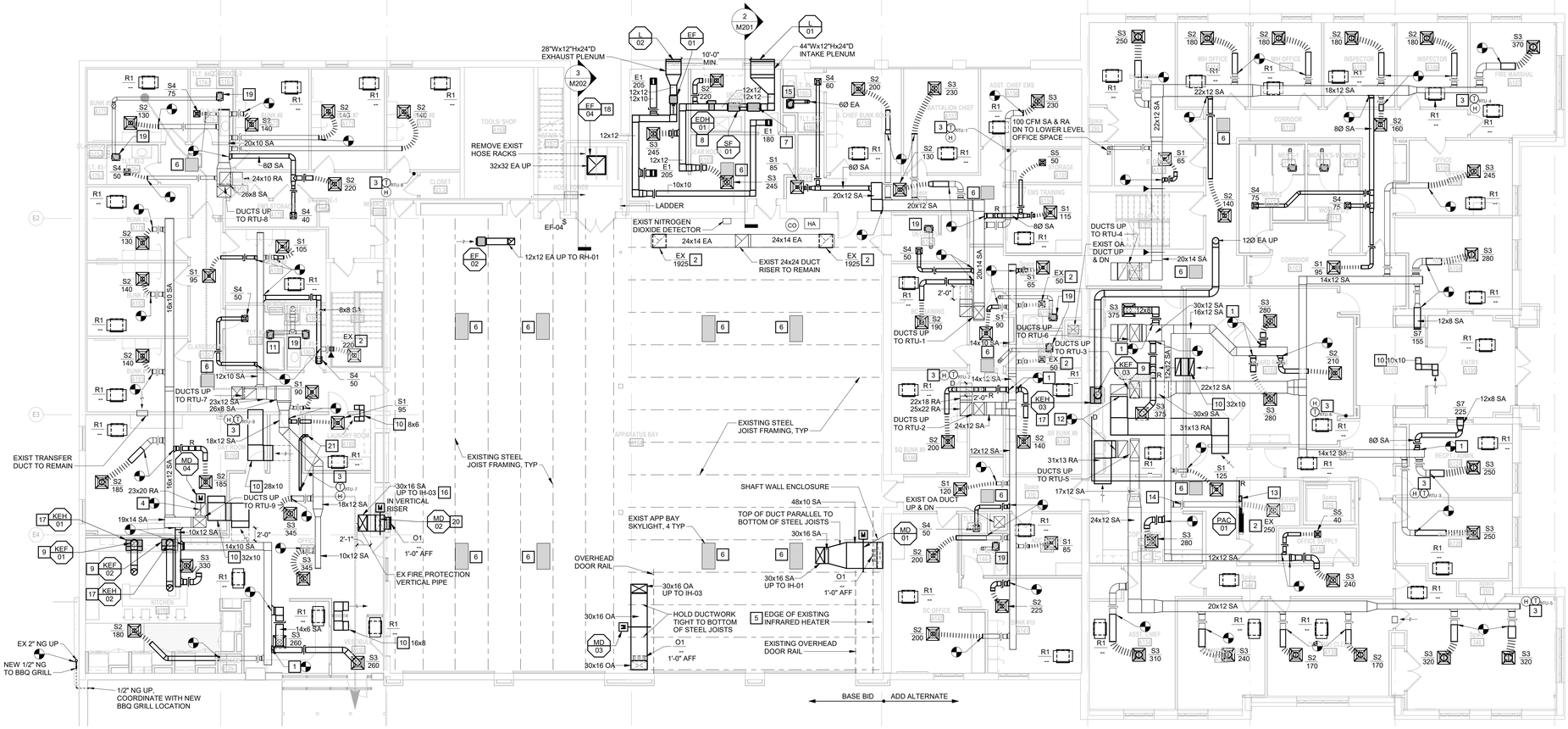
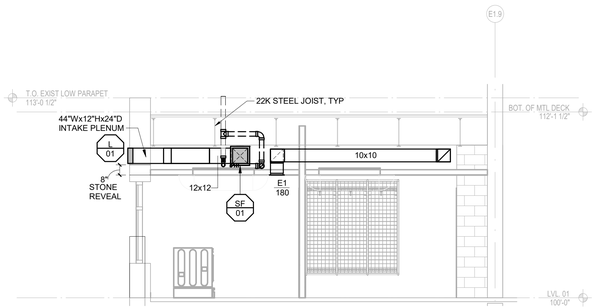


APPARATUS BAY EXHAUST CALCULATIONS

EQUIPMENT	CODE REQ. EXHAUST	SQ FT	REQ. CFM	ACTUAL CFM
EF-03	0.70 CFM / SF	5,460	3,825	3,850
EF-02	0.05 CFM / SF	5,460	275	300
TOTAL	0.75 CFM / SF	5,460	4,095	4,150

1 FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"
SCALE: 1/8" = 1'-0"



2 SECTION THRU DECON & GEAR RM
1/4" = 1'-0"
SCALE: 1/4" = 1'-0"

3 EXISTING EXTERIOR GAS PIPING
M201 SCALE: NTS

M201 KEYED NOTES

#	
1	EXISTING DUCT OPENING LOCATION FROM DEMOLITION PHASE. INSTALL NEW BRANCH DUCTWORK AND SPIN-IN FITTING AS SHOWN. SEAL NEW CONNECTION POINT TO AN AIRTIGHT FINISH.
2	EXISTING AIR DEVICE TO BE REBALANCE TO CFM INDICATED.
3	NEW DDC PROGRAMMABLE THERMOSTAT WITH HUMIDSTAT. INSTALL CONTROL WIRING BACK TO NEW ASSOCIATED ROOFTOP UNIT.
4	INSTALL MOTORIZED DAMPER MD-04 HORIZONTALLY IN VERTICAL DROP. SIZE TO MATCH EXISTING DUCTWORK.
5	THE INTENT IS TO CONSTRUCT THE NEW SHAFT ENCLOSURE WALL WHILE EXISTING INFRARED TUBE HEATER REMAINS IN PLACE. UPON COMPLETION OF WALL, TILT REFLECTORS ON A 45 DEGREE ANGLE AWAY FROM WALL.
6	EXISTING SKYLIGHT. SKYLIGHT SHALL REMAIN UNOBSTRUCTED.
7	REMOTE FILTER HOUSING, PROVIDE 1'-0" OF 12x12 STRAIGHT LENGTH DUCT UPSTREAM AND DOWNSTREAM OF HOUSING.
8	PROVIDE MINIMUM 2'-0" LENGTH OF INLET AND DISCHARGE DUCTWORK PRIOR TO DUCT TRANSITIONS.
9	MOUNT INLINE KITCHEN EXHAUST FAN IN VERTICAL DUCT BELOW FINISHED CEILING.
10	PLENUM TRANSFER DUCT ABOVE CEILING.
11	CONTRACTOR SHALL REPOSITION EXISTING CEILING EXHAUST FAN TO ACCOMODATE NEW ROOM LAYOUT.
12	CONTRACTOR SHALL EXTEND EXISTING RETURN DUCT AND ROUTE BEYOND BREAKROOM AS SHOWN.
13	WALL MOUNTED FAN COIL UNIT SHALL BE CONNECTED TO CONDENSATE PUMP. COORDINATE LOCATION OF FAN COIL UNIT WITH ELECTRICAL CONTRACTOR. PUMP TO BE MOUNTED BELOW THE FAN COIL UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. BASIS OF DESIGN IS MANUFACTURER "HARTELL MODEL KT-15", 1/20 HP AT 3000 RPM, 115 VOLTS AT 1.3 AMPS, 3 QUART RESERVOIR CAPACITY, MAXIMUM LIFT IS 15 FEET. SLOPE PIPING ABOVE CEILING TO BREAKRM #264 FLOOR SINK DRAIN BELOW CABINET. ANCHOR VERTICAL PIPING TO FACE OF WALL. TERMINATE PIPING AT FLOOR DRAIN, REFER TO PLUMBING DETAIL 3/P500 FOR FLOOR DRAIN DETAIL.
14	EXISTING DAMPER SHALL BE SET IN CLOSE POSITION. ONLY OPEN WHEN ADDITIONAL COOLING IS NEEDED IN SERVER ROOM OR FAILURE OF NEW SPLIT SYSTEM.
15	EXISTING CEILING EXHAUST FAN NEW LOCATION, PROVIDE NEW DISCHARGE DUCTWORK UP THRU ROOF.
16	LOCATE VERTICAL DUCT RISER TO CLEAR EXISTING FIRE PROTECTION PIPING. ROUTE BETWEEN 44" SPACING OF EXISTING STEEL JOISTS.
17	CONTRACTOR SHALL PROVIDE GAS CONNECTION TO NEW KITCHEN HOOD, CONNECT TO EXISTING GAS MAIN PIPING.
18	EXHAUST FAN SHALL BE VERTICALLY SUPPORTED FROM STRUCTURE ABOVE. PROVIDE MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT RIGID DISCHARGE DUCT.
19	REINSTALL EXISTING FAN AFTER NEW CEILING IS INSTALLED. RECONNECT TO EXISTING DUCTWORK.
20	PROVIDE ACCESS PANEL IN SHAFT ENCLOSURE WALL NEXT TO MOTORIZED DAMPER ACTUATOR.
21	4" DRYER VENT UP INSIDE WALL, OFFSET ABOVE CEILING AS SHOWN TO MAINTAIN 15'-0" FROM ROOFTOP UNIT INTAKE HOOD.
22	REPLACE EXISTING 2" GAS SHUT-OFF VALVE WITH A NEW 2" SEISMIC EARTHQUAKE VALVE. MODIFY EXISTING GAS PIPING AS NECESSARY FOR COMPLETE INSTALLATION OF NEW SEISMIC VALVE.
23	REFER TO DRAWING M101 FOR DEMOLITION WORK. INSTALL NEW 1/2" GAS PIPING, ROUTE UNDERGROUND TO NEW OUTDOOR BBQ GRILL LOCATION.

M201 GENERAL NOTES

1. EXISTING DUCTWORK SIZES INDICATED ARE SHEETMETAL SIZES WITH INTERNAL LINER. NEW DUCTWORK SIZES ARE INSIDE CLEAR DIMENSIONS.
2. REFER TO DETAIL 11/M500 FOR EXISTING BRANCH DUCT TAKE-OFF TO NEW AIR DEVICE FOR DETAIL OF CONNECTION.

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MO Architect License No: A-6661
Expires: 12/31/22

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LICENSE NUMBER: PE-25112
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

FIRST FLOOR MECHANICAL PLAN

Project No. 22135

Sheet No. M201

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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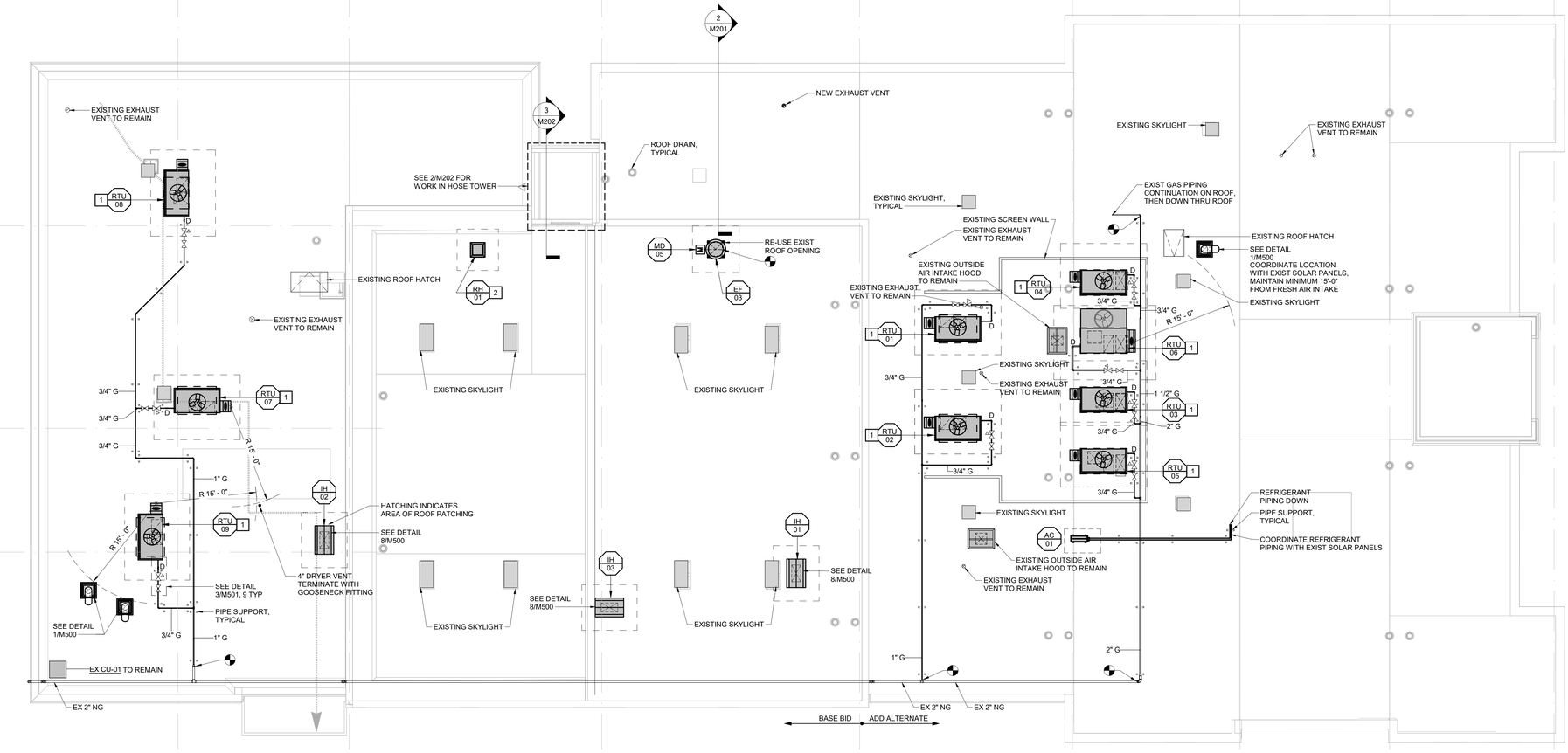


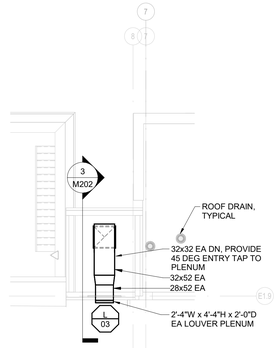
1 ROOF MECHANICAL NEW WORK PLAN

1/8" = 1'-0"

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

M202 KEYED NOTES

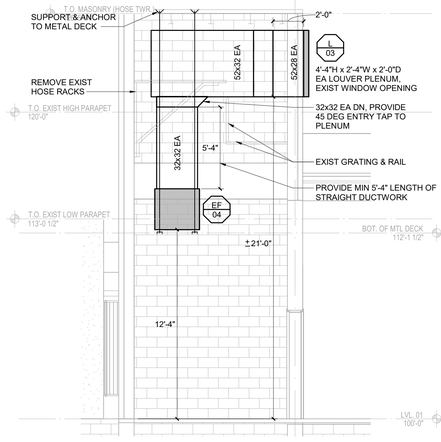
#	
1	NEW ROOFTOP UNIT TO BE MOUNTED ON VIBRATION ISOLATION CURB THEN ANCHORED TO CURB ADAPTER, SEE DETAIL 1/M501. REFER TO DETAIL 4/M500 FOR SOUND CONTROL PENETRATION DETAIL IN EXISTING ROOF CURB.
2	CONTRACTOR SHALL MAKE ALTERATIONS TO EXSITING ROOF CURB FOR INSTALLATION OF NEW RELIEF HOOD.



2 HOSE TOWER MECHANICAL NEW WORK PLAN

1/8" = 1'-0"

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



3 VERTICAL SECTION THROUGH HOSE TOWER

1/4" = 1'-0"

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

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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

ROOF MECHANICAL NEW WORK PLAN

Project No. 22135

Sheet No. M202

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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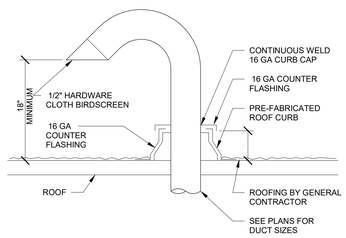
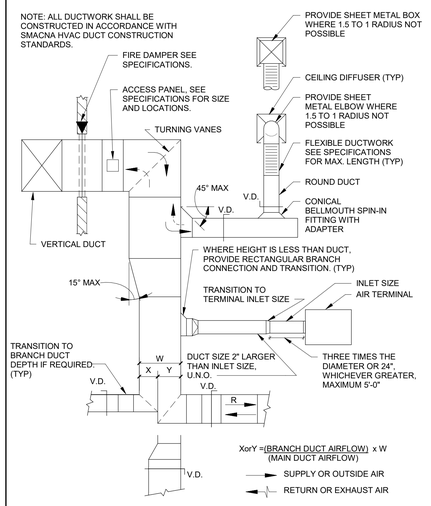


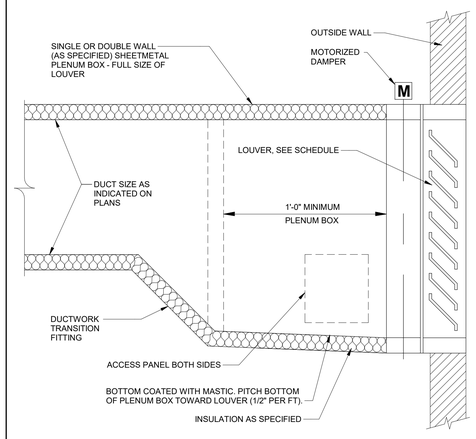
1 GOOSENECK THROUGH ROOF DETAIL

M500 SCALE: NTS



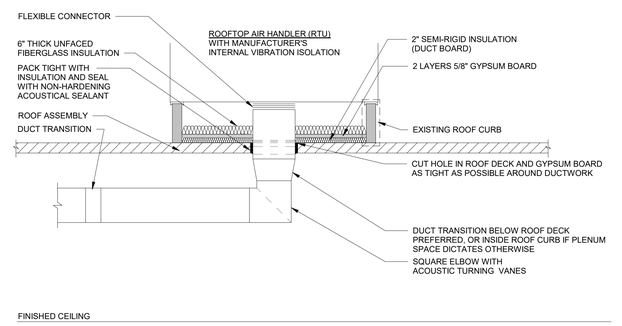
2 TYPICAL DUCTWORK INSTALLATION DETAIL

M500 SCALE: NTS



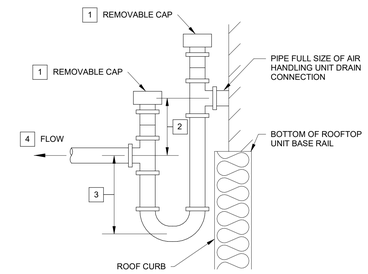
3 LOUVER PLENUM DETAIL

M500 SCALE: NTS



4 ROOFTOP UNIT SOUND CONTROL PENETRATION DETAIL

M500 SCALE: NTS

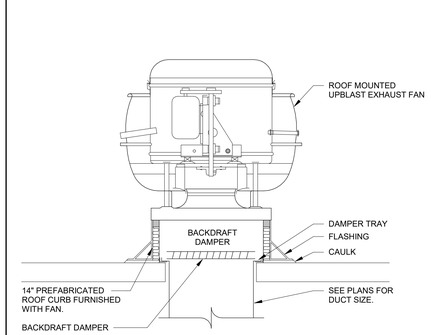


NOTES:

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 DRAIN.

5 CONDENSATE DRAIN TRAP DETAIL ROOF MOUNTED EQUIPMENT

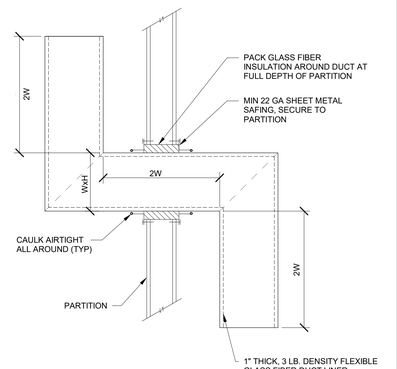
M500 SCALE: NTS



NOTE:
COORDINATE LOCATION OF OPENING WITH STRUCTURAL PLANS

6 ROOF MOUNTED UPBLAST EXHAUST FAN

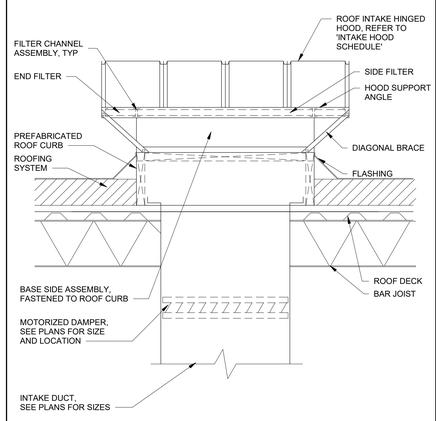
M500 SCALE: NTS



PLAN VIEW

7 AIR TRANSFER DUCT DETAIL

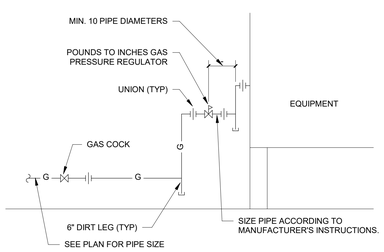
M500 SCALE: NTS



NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAIL. COORDINATE ALL PENETRATIONS WITH ROOF SUB-CONTRACTOR. REFER TO MANUFACTURER'S GUIDELINES FOR HOOD FABRICATION AND INSTALLATION.

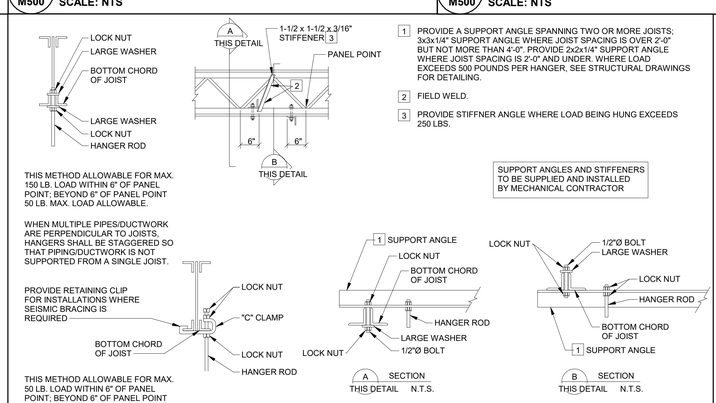
8 INTAKE HOOD INSTALLATION DETAIL

M500 SCALE: NTS



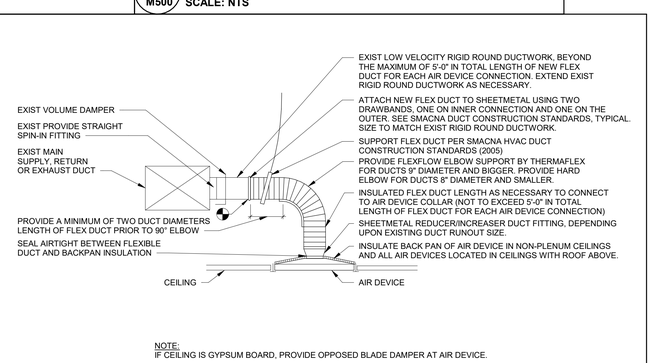
9 EQUIPMENT GAS PIPING CONNECTION DETAIL

M500 SCALE: NTS



10 TYPICAL JOIST HANGER DETAIL FOR PIPING, DUCTWORK AND EQUIPMENT

M500 SCALE: NTS



NOTE:
IF CEILING IS GYPSUM BOARD, PROVIDE OPPOSED BLADE DAMPER AT AIR DEVICE.

11 EXIST BRANCH TAKE-OFF TO NEW AIR DEVICE DETAIL

M500 SCALE: NTS

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FACILITY: FIRE STATION NUMBER NO. 5
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No. 5

11020 MUELLER ROAD

No.	Date	Revision

MECHANICAL DETAILS

Project No. 22135

Sheet No. M500

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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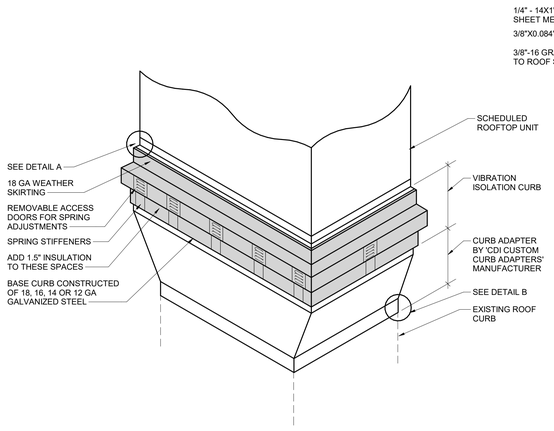
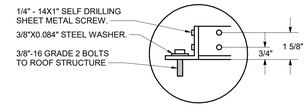
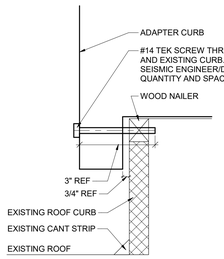




DETAIL A

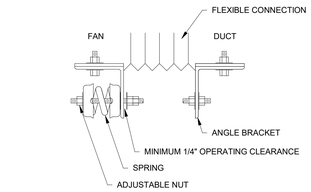


DETAIL B

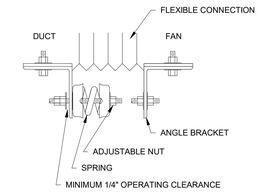
NOTES:

1. ALL MOUNTING DETAILS LISTED MUST BE FOLLOWED TO ACHIEVE SEISMIC CERTIFICATION.
2. THE ROOFTOP UNIT MUST BE CERTIFIED TO ICC-ES AC156.
3. FOR CURB MOUNTED UNIT. UNIT MUST BE MOUNTED ON SEISMIC CURB OR RAIL SUPPORT.
4. ANY DEVIAIONS OR MODIFICATIONS TO THE UNIT OR CURB WILL VOID ALL SEISMIC CERTIFICATION. VERTICAL DUCT CONNECTIONS AND VERTICAL PIPE CHASE MAY BE CUT OUT OF THE BASE OF SOLID BOTTOM CURBS.
5. STRUCTURAL ENGINEER OF RECORD MUST APPROVE BUILDING ANCHORAGE TO UNIT OR CURB IN COMPLIANCE WITH OSP-0180-10.

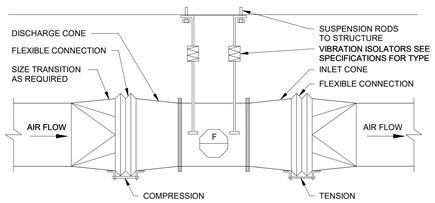
1 RTU ADAPTER CURB INSTALLATION DETAIL
M501 SCALE: NTS



TENSION



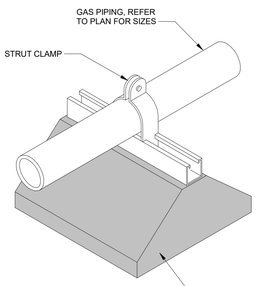
COMPRESSION



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.

2 INLINE CENTRIFUGAL FAN INSTALLATION DETAIL
M501 SCALE: NTS



3 ROOF PIPE SUPPORT DETAIL
M501 SCALE: NTS

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LICENSE NO: PE-2011018754 | MISSOURI
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

MECHANICAL DETAILS

Project No. 22135

Sheet No. M501

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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ROOFTOP UNIT SCHEDULE (GAS HEATING)

UNIT NO.	BASIS OF DESIGN		NOMINAL TONS	OA CFM	SUPPLY FAN				COOLING SECTION				REHEAT COIL		CONDENSING SECTION			FANS			GAS HEATING					FILTERS		ELECTRICAL			UNIT WEIGHT (LBS)	MAX. UNIT HEIGHT (IN.)	NOTES
	MANUFACTURER	MODEL			TOTAL CFM	EXT. S.P. (IN WC)	BHP	HP	TOTAL COOLING (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	CAPACITY (MBH)	LAT DB/WB (°F)	REFRIGERANT TYPE	NO. CIRCUITS	NO. OF COMPRESSORS	OA TEMP (DB - °F)	QTY	HP	MBH INPUT	MBH OUTPUT	EAT (DB - °F)	LAT (DB - °F)	THICK (IN)	MERV	MCA	MOCP	V/PH/HZ				
RTU 01	AAON	RQ-004	4.0	140	1370	0.75	0.73	2.0	42.0	35.7	73.6 / 60.5	49.5 / 49.0	37.8	75.0 / 59.5	R-410A	1	1	105	1	0.33	60.0	48.6	62.8	95.4	2"	8	25	35	208/3/60	797	50.5	1, 2, 3, 4, 5, 6, 7
RTU 02	AAON	RQ-004	4.0	160	1475	0.75	0.81	2.0	42.6	36.1	73.0 / 60.6	50.4 / 50.0	39.2	75.0 / 59.9	R-410A	1	1	105	1	0.33	60.0	48.6	62.4	92.7	2"	8	25	35	208/3/60	797	50.5	1, 2, 3, 4, 5, 6, 7
RTU 03	AAON	RQ-004	4.0	140	1405	0.75	0.75	2.0	42.1	35.1	72.8 / 60.4	49.7 / 49.3	38.5	75.0 / 59.6	R-410A	1	1	105	1	0.33	60.0	48.6	63.0	94.8	2"	8	25	35	208/3/60	797	50.5	1, 2, 3, 4, 5, 6, 7
RTU 04	AAON	RQ-006	6.0	205	2050	0.75	1.31	2.0	55.2	47.8	72.8 / 60.4	51.3 /50.5	52.7	75.0 / 60.0	R-410A	1	1	105	1	0.33	100.0	81.0	63.0	99.3	2"	8	29	40	208/3/60	828	50.5	1, 2, 3, 4, 5, 6, 7
RTU 05	AAON	RQ-004	4.0	155	1530	0.75	0.85	2.0	42.8	36.3	72.5 / 60.5	50.6 / 50.2	40.4	75.0 / 59.9	R-410A	1	1	105	1	0.33	60.0	48.6	62.9	92.1	2"	8	25	35	208/3/60	797	50.5	1, 2, 3, 4, 5, 6, 7
RTU 06	AAON	RN-010	10.0	395	2455	0.75	1.30	2.0	101.8	73.6	74.0 / 61.9	46.3 / 46.2	76.0	75.0 / 58.3	R-410A	1	1	105	2	0.33	150.0	120.0	58.7	103.6	2"	8	51	80	208/3/60	1334	44.0	1, 2, 3, 4, 5, 6, 7
RTU 07	AAON	RQ-004	4.0	160	1395	0.75	0.75	2.0	42.3	35.1	73.2 / 60.8	50.0 / 49.5	37.7	75.0 / 59.7	R-410A	1	1	105	1	0.33	60.0	48.6	62.0	94.0	2"	8	25	35	208/3/60	797	50.5	1, 2, 3, 4, 5, 6, 7
RTU 08	AAON	RQ-004	4.0	130	935	0.75	0.44	2.0	40.5	29.3	73.9 / 61.3	44.9 / 44.7	30.3	75.0 / 57.7	R-410A	1	1	105	1	0.33	60.0	48.6	60.3	108.0	2"	8	25	35	208/3/60	797	50.5	1, 2, 3, 4, 5, 6, 7
RTU 09	AAON	RQ-006	6.0	240	1810	0.75	1.06	2.0	54.8	45.1	73.7 / 61.2	50.7 / 50.1	47.5	75.0 / 59.9	R-410A	1	1	105	1	0.33	100.0	81.0	62.0	103.1	2"	8	29	40	208/3/60	828	50.5	1, 2, 3, 4, 5, 6, 7

NOTES:
1. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT.
2. PROVIDE UNIT WITH VARIABLE SPEED SCROLL COMPRESSOR.
3. PROVIDE UNIT WITH CURB ADAPTERS FROM MANUFACTURER 'CDI CUSTOM CURB ADAPTERS'. CDI MANUFACTURER SHALL ALSO FURNISH SEISMIC RATED VIBRATION ISOLATION CURB OR RAIL MOUNTED DIRECTLY TO CURB ADAPTER.
4. LISTED COOLING LEAVING AIR TEMPERATURE IS LEAVING COIL.
5. PROVIDE WITH DISCONNECT POWER SWITCH AND CONVENIENCE OUTLET.
6. PROVIDE WITH WALL MOUNTED SPACE SENSOR. SENSOR SHALL CONTROL SPACE TEMPERATURE AND HUMIDITY, 7 DAY PROGRAMMABLE WITH A MINIMUM OF 4 SETTINGS PER DAY.
7. PROVIDE UNIT WITH BACNET INTERFACE TO ALLOW FOR FUTURE CONNECTION TO BUILDING AUTOMATION SYSTEM.

RELIEF HOOD SCHEDULE

UNIT NO.	BASIS OF DESIGN		SERVES	FREE AREA (SQ FT)	THROAT VELOCITY (FPM)	MAX CFM	SP (IN WC)	THROAT SIZE (IN)	WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL								
RH 01	GREENHECK	WRH-12x12	APPARATUS BAY	1	1200	300	0.014	12	40	1

NOTES:
1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER IN CURB.

INTAKE HOOD SCHEDULE

UNIT NO.	BASIS OF DESIGN		LOCATION	FREE AREA SQ FT	THROAT VELOCITY (FPM)	CFM	SP (IN WC)	THROAT WIDTH x LENGTH (IN x IN)	WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL								
IH 01	GREENHECK	FGI-16x30	ROOF	3.0	581	1935	0.121	16x30	68	1
IH 02	GREENHECK	FGI-16x30	ROOF	3.0	581	1935	0.121	16x30	68	1
IH 03	GREENHECK	FGI-16x30	ROOF	3.0	581	1935	0.121	16x30	68	1

NOTES:
1. PROVIDE WITH FILTERS.

AIR DEVICE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	MAX FLOW CFM	NECK SIZE	FACE SIZE	MAX NC	MAX PRESSURE DROP IN-WG	MATERIAL	BORDER TYPE	FINISH	ACCESSORIES	NOTES
S1	TITUS	OMNI	125	6" RND	24"x24"	25	0.10	ST	LAY-IN	BWE	IB	1
S2	TITUS	OMNI	235	8" RND	24"x24"	25	0.10	ST	LAY-IN	BWE	IB	1
S3	TITUS	OMNI	380	10" RND	24"x24"	25	0.10	ST	LAY-IN	BWE	IB	1
S4	TITUS	OMNI	125	6" RND	12"x12"	25	0.10	ST	SURFACE	BWE	IB	1
S5	TITUS	OMNI	125	6" RND	12"x12"	25	0.10	ST	LAY-IN	BWE	IB	1
S6	TITUS	272RL	155	8"x6"	9.75"x7.75"	25	0.07	ST	SURFACE	BWE		1
S7	TITUS	272RL	230	12"x8"	13.75"x9.75"	25	0.04	ST	SURFACE	BWE		1
T1	TITUS	350RL	145	14"x6"	15.75"x7.75"	25	0.02	ST	SURFACE	BWE	VC	
R1	TITUS	25RL	1570	22" x 22"	24"x24"	25	0.04	ST	LAY-IN	BWE		2
E1	TITUS	350RL	250	10"x10"	12"x12"	25	0.10	ST	LAY-IN	BWE	EP	1, 4
O1	TITUS	271RL	1950	22" x 24"	23.75"x25.75"	25	0.10	ST	SURFACE	BWE		3

NOTES:
1. VOLUME CONTROL DAMPER SHALL BE INSTALLED IN BRANCH DUCTWORK UNLESS NOTED OTHERWISE INDICATED ON PLANS. SEE PLANS FOR LOCATION AND ACCESSIBILITY.
2. MANUFACTURER'S 'RC' RETURN CANOPY SHALL BE INSTALLED ON AIR DEVICE.
3. BALANCED VIA MOTORIZED DAMPER.
4. BORDER TYPE 3 (LAY-IN) WITH EXTENDED PANEL MOUNTED.

MATERIAL
ST - STEEL
AL - ALUMINUM
SS - STAINLESS STEEL
PL - PLASTIC
SP - SPECIAL (BY NOTE)

ACCESSORIES
AF - ANGLE FRAME
AS - AIR SCOOP
BB - BLANK-OFF BAFFLE
BS - BIRDSCREEN
EP - EXTENSION PANEL
IB - MOLDED INSULATION BLANKET
PC - PATTERN CONTROL
RC - REMOVABLE CORE
SRA - SQUARE TO ROUND ADAPTER
VC - VOLUME CONTROL

FINISH
STD - STANDARD
BWE - BAKED WHITE ENAMEL
PC - PRIME COAT, MATCH WALL COLOR
BLK - POWDER COAT BLACK
ENL - BAKED ENAMEL, COLOR BY ARCHITECT
SP - SPECIAL (BY NOTE)
CA - CLEAR ANNODIZED

SPLIT AIR-CONDITIONING UNIT SCHEDULE - INDOOR ONLY

UNIT NO.	BASIS OF DESIGN		AREA SERVED	CONDENSING UNIT	SUPPLY CFM @ HIGH SPEED	ESP (IN WC)	RATED COOLING CAPACITY (MBH)	HEATING MBH	FILTER	ELECTRICAL DATA	NOTES
	MANUFACTURER	MODEL								V/PH/HZ	
PAC 01	LG	LS120HSV5	SERVER ROOM	AC-01	459	-	12	-	3M MICRO	208/1/60	1,2,3

NOTES:
1. POWER FROM ASSOCIATED CONDENSING UNIT.
2. COOLING CAPACITY BASED UPON 80 DEGF DB AND 67 DEGF WB INDOOR TEMPERATURE.
3. REFER TO DWG. M2.01 KEYED NOTE #13 REGARDING CONDENSATE PUMP.

CONDENSER SCHEDULE

UNIT NO.	BASIS OF DESIGN		AREA SERVED	RATED CAPACITY (MBH)		FAN QUANTITY	ELECTRICAL DATA			NOTES
	MANUFACTURER	MODEL		COOLING	HEATING		V/PH/HZ	MCA	MOCP	
AC 01	LG	LSU120HSV5	SERVER ROOM	12	-	1	208/1/60	01	15	1,2,3,4

NOTES:
1. MOUNT ON 8" RAIL WITH NEOPRENE ISOLATORS.
2. LOW AMBIENT KIT. TO PROVIDE COOLING TO A MINIMUM OF -4 DEGF.
3. COOLING CAPACITY BASED UPON 95 DEGF DB AND 75 DEGF WB OUTDOOR TEMPERATURE.
4. PROVIDE WITH ALL ACCESSORIES AND CONTROLS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

MOTORIZED DAMPER SCHEDULE

PLAN MARK	SERVICE	DUCT/OPENING SIZE	CFM	FPM	PRESSURE RATING	MOUNTING (H OR V)	NOTES
MD 01	OUTSIDE AIR	48x10	1935	580	5 IN. WG	VERTICAL	1
MD 02	OUTSIDE AIR	30x16	1935	580	5 IN. WG	HORIZONTAL	1
MD 03	OUTSIDE AIR	30x16	1935	580	5 IN. WG	VERTICAL	2
MD 04	RETURN AIR	23x20	245	80	5 IN. WG	HORIZONTAL	3
MD 05	EXHAUST AIR	24x24	3850	965	5 IN. WG	HORIZONTAL	1

NOTES:
1. INTERLOCK WITH EF-03.
2. INTERLOCK WITH EF-04.
3. INTERLOCK WITH KEF-01 & KEF-02.

FAN SCHEDULE

UNIT NO.	BASIS OF DESIGN		SERVES	TYPE	INLET SONES	CFM	ESP (IN. WC)	FAN RPM	DRIVE TYPE	BHP	HP	V/PH/HZ	ACCESSORIES	WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL													
EF 01	GREENHECK	SQ-7-M1-VG	DECON & GEAR ROOM	INLINE	9.3	590	0.57	2417	DIRECT	0.11	1/2	115/1/60	SC, DS, BD, VI	39	
EF 02	GREENHECK	SQ-90-VG	APPARATUS BAY	INLINE	6.2	300	0.40	1400	DIRECT	0.05	1/10	115/1/60	SC, DS, BD, VI	49	1
EF 03	GREENHECK	G-200-VG	APPARATUS BAY	CENTRIFUGAL	14.0	3850	0.88	992	DIRECT	1.13	2.0	208/3/60	SC, DS, BD, RC, MD	108	3
EF 04	GREENHECK	SQ-22-M2-VG	APPARATUS BAY	INLINE	16.8	8190	0.66	1047	DIRECT	1.74	5.0	208/3/60	SC, DS, BD, VI	289	
KEF 01	DENLAR	D1030-D-IF-NFPA	KEH-01	INLINE	-	545	0.89	-	DIRECT	-	0.40	120/1/60		13.5	2
KEF 02	DENLAR	D1030-D-IF-NFPA	KEH-02	INLINE	-	545	0.89	-	DIRECT	-	0.40	120/1/60		13.5	2
KEF 03	DENLAR	D1030-D-IF-NFPA	KEH-03	INLINE	-	545	0.89	-	DIRECT	-	0.40	120/1/60		13.5	2
SF 01	GREENHECK	SQ-99-VG	DECON & GEAR ROOM	INLINE	14.1	710	0.75	1762	DIRECT	0.28	3/4	115/60/1	SC, DS, BD, VI	56	

NOTES:
1. FAN SHALL OPERATE CONTINUOUSLY.
2. PROVIDE 7" ROUND INCREASER FITTING FROM HOOD TO INLET OF FAN.
3. CONTRACTOR SHALL PROVIDE NEW ROOF CURB WITH DAMPER TRAY. IF EXISTING EQUIPMENT CURB IS NOT ADEQUATE SIZE FOR INSTALLATION OF NEW EXHAUST FAN.

ACCESSORIES:
BD - GRAVITY BACKDRAFT DAMPER
BS - BIRD SCREEN
DS - DISCONNECT SWITCH
IG - INLET GRILLE
MD - MOTORIZED DAMPER
RC - ROOF CURB WITH DAMPER TRAY
SC - SOLID STATE SPEED CONTROLLER
VSC - VARIABLE SPEED CONTROLLER
VI - VIBRATION ISOLATORS

ELECTRIC DUCT HEATER SCHEDULE

UNIT NO.	BASIS OF DESIGN		DUCT SIZE	CFM	ELECTRICAL DATA			NOTES
	MANUFACTURER	MODEL			KW	STAGES	V/PH/HZ	
EDH 01	RAYWALL	HF	12x12	710	17.0	NOTE 1	203/3/60	2

NOTES:
1. SCR CONTROLLER TO MAINTAIN SPACE TEMPERATURE SET POINT AS MEASURED BY REMOTE MOUNTED TEMPERATURE SENSOR.
2. INSERT-TYPE HEATER.

LOUVER SCHEDULE

UNIT NO.	BASIS OF DESIGN		SERVES / SYSTEM	SIZE WxH (IN)	MATERIAL	FINISH	MAX CFM	FREE AREA VEL (FPM)	FREE AREA (SQ FT)	PD (IN WC)	ACCESSORIES	NOTES
	MANUFACTURER	MODEL										
L 01	GREENHECK	ECD-401	DECON AND GEAR ROOM / SF-01	44x12	ALUMINUM	SEE NOTE 2	710	539	1.3	0.05	1, 2, 3	1
L 02	GREENHECK	ESD-403	DECON AND GEAR ROOM / EF-01	28x12	ALUMINUM	SEE NOTE 2	590	713	0.8	0.07	1, 2, 3	1
L 03	GREENHECK	ESD-635	APPARATUS BAY / EF-04	28x52	ALUMINUM	SEE NOTE 2	8190	1510	5.4	0.30	1, 2	1

NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.
2. PROVIDE WITH 70% KYNAR FINISH, COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

ACCESSORIES:
1. INSECT SCREEN
2. INTEGRAL FRAME
3. MOTORIZED DAMPER

KITCHEN HOOD SCHEDULE

UNIT NO.	BASIS OF DESIGN		LENGTH	EXHAUST CFM	ELECTRICAL DATA			NOTES
	MANUFACTURER	MODEL			V/PH/HZ	AMPS	MOCP	
KEH 01	DENLAR	D1030-D-IF-NFPA101	2'-6"	545	120/1/60	4.0	15.0	1, 2, 3, 4, 5, 6, 7, 8
KEH 02	DENLAR	D1030-D-IF-NFPA101	2'-6"	545	120/1/60	4.0	15.0	1, 2, 3, 4, 5, 6, 7, 8
KEH 03	DENLAR	D1030-D-IF-NFPA101	2'-6"	545	120/1/60	4.0	15.0	1, 2, 3, 4, 5, 6, 7, 8

NOTES:
1. PROVIDE WITH INLINE EXHAUST FAN.
2. PROVIDE ROOF JACK WITH ROOF CURB AND BACKDRAFT DAMPER FOR 12-INCH DUCT CONNECTION.
3. PROVIDE WITH ELECTRICAL DISCONNECT SWITCH.
4. PROVIDE WITH INTEGRAL LIGHTS, LIGHT SWITCH AND FAN SWITCH.
5. PROVIDE WITH INTEGRATED FIRE SUPPRESSION SYSTEM.
6. PROVIDE WITH INTEGRATED SYSTEM CONTROLS, GAS SHUTOFF AND MANUAL PULL STATION.
7. PROVIDE STAINLESS STEEL ENCLOSURE AROUND EXHAUST DUCT TO MATCH HOOD MATERIAL. ENCLOSURE SHALL RUN FROM TOP OF HOOD TO BOTTOM OF CEILING TO FULLY ENCLOSE THE EXHAUST DUCT.
8. CLOCK BOX IS NOT REQUIRED.

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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No. 5
11020 MUELLER ROAD

No.	Date	Revision

MECHANICAL SCHEDULES

Project No. 22135

Sheet No. M600

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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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" 0
SCALE: 1/2" = 1'-0" 4" 2" 1" 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

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SEQUENCES OF OPERATION:

SYSTEM GENERAL DESCRIPTION:

ROOFTOP UNITS RTU-01, RTU-02, RTU-03, RTU-04, RTU-05, RTU-06, RTU-07, RTU-08 & RTU-09:

ROOFTOP UNITS RTU-01 THROUGH RTU-09 SHALL CONSIST OF A SUPPLY AIR FAN (SAF), VARIABLE FREQUENCY DRIVES (VFD), COMPRESSORS, DIRECT EXPANSION (DX) COOLING COIL, MODULATING GAS HEAT, A FILTER SECTION AND AN ENTHALPY ECONOMIZER WITH RELIEF FAN. IN ADDITION, THESE UNITS SHALL BE EQUIPPED WITH HOT GAS REHEAT COILS TO PROVIDE DEHUMIDIFICATION.

UNITS SHALL OPERATE TO PROVIDE COOLING AND HEATING AIR AS REQUIRED TO MEET SPACE TEMPERATURE SETPOINT.

OCCUPIED MODE:
PROGRAMMED OPERATING SCHEDULE THROUGH BAS SHALL BE COORDINATED WITH THE OWNER. UPON RECEIVING A SINGLE TO START THE SUPPLY FAN SHALL START VIA THE VFD. THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM POSITION. THROUGH INTERNAL CONTROLS THE RTUS SHALL MODULATE AIR FLOW, COMPRESSOR OPERATION AND HEAT EXCHANGER OPERATION. THE UNIT CONTROLS SHALL START THE EXAHUST FAN AND VARY THE SPEED OF THE FAN VIA THE VFD TO MAINTAIN POSITIVE DIFFERENTIAL PRESSURE IN THE HYBRID OR.

OCCUPIED COOLING MODE:
FIRST STAGE OF COOLING ECONOMIZER OPERATION): IF THE OUTDOOR MEASURED ENTHALPY LEVEL IS LOWER THAN THE INDOOR MEASURED LEVEL AND THE TEMPERATURE OF THE OUTSIDE AIR IS LOWER THAN 50°F (ADJ), THE OUTSIDE AIR DAMPERS ON THE RTU SHALL MODULATE TOWARDS A FULLY OPEN POSITION AND THE RETURN AIR DAMPERS ON THE RTUS SHALL MODULATE TO A FULLY CLOSED POSITION TO MAINTAIN A 55°F (ADJ) MIXED AIR CONDITION. THE MODULATING GAS HEAT SHALL OPERATE TO PROVIDE NEUTRAL AIR (LAT. THE MODULATING EXHAUST RELIEF DAMPERS SHALL OPERATE TO MAINTAIN A POSITIVE ROOM PRESSURE OF 0.05" W.C. (ADJ). THE COMPRESSORS AND CONDENSER FANS SHALL BE DEENERGIZED.

SECOND STAGE OF COOLING (DX COIL): WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 50°F (ADJ). THE OUTSIDE AIR DAMPERS ON THE RTUS SHALL MODULATE TO THE MINIMUM OPEN POSITION AND THE RETURN AIR DAMPERS SHALL MODULATE TO A FULLY OPEN POSITION. THE RELIEF DAMPERS SHALL OPERATE TO MAINTAIN A POSITIVE BUILDING PRESSURE OF 0.05" W.C. (ADJ). THE COMPRESSORS SHALL STAGE ON AND OFF BASED ON REFRIGERANT TEMPERATURE. CONDENSER FANS SHALL REMAIN ON.

DEHUMIDIFICATION: WHEN SPACE TEMPERATURE SETPOINT IS MAINTAINED AND RELATIVE HUMIDITY OF 55% (ADJ) IS EXCEEDED, THE COMPRESSORS SHALL BE ENERGIZED WITH HOT GAS DIVERTED TO THE HOT GAS REHEAT COIL TO REHEAT SUPPLY AIR TEMPERATURE TO SPACE TEMPERATURE SETPOINTS. CONDENSER FANS SHALL REMAIN ON.

OCCUPIED HEATING MODE WITH MODULATING GAS HEAT:
UPON THE CALL FOR HEAT THE GAS HEATING SHALL MODULATE TO PROVIDE WARM AIR AND MAINTAIN SPACE TEMPERATURE SETPOINT (RTU-3&4 ONLY) OR PROVIDE 55 DEG LAT (ADJ) (RTU-1&2 ONLY). THE COMPRESSOR(S) AND CONDENSER FAN(S) SHALL REMAIN OFF.

UNOCCUPIED MODE:
THE UNIT SHALL RUN CONTINUOUSLY AT A REDUCED AIRFLOW PERCENTAGE OF 50%. THE RELIEF AIR DAMPER SHALL BE FULLY CLOSED AND THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED. ECONOMIZER MODE SHALL OVERRIDE DAMPER POSITIONS.

PREFILTER DIFFERENTIAL PRESSURE MONITOR:
ALARMS SHALL BE PROVIDED WHEN PREFILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ).

MIXED AIR TEMPERAUTRE:
MIXED AIR SENSOR SHALL BE USED AS REQUIRED FOR ECONOMIZER CONTROL. ALARMS SHALL BE PROVIDED FOR THE FOLLOWING:
- HIGH MIXED AIR TEMPERATURE IF GREATER THAN 90 °F (ADJ)
- LOW MIXED AIR TEMPERATURE IF LOWER THAN 45 °F (ADJ)

RETURN AIR HUMIDITY:
RETURN AIR SENSOR SHALL BE USED AS REQUIRED FOR ECONOMIZER CONTROL. ALARMS SHALL BE PROVIDED FOR THE FOLLOWING:
- HIGH RETURN AIR HUMIDITY IF RETURN AIR HUMIDITY IS GREATER THAN 60% RH (ADJ)
- LOW RETURN AIR HUMIDITY IF THE RETURN AIR HUMIDITY IS LOWER THAN 25% RH (ADJ)

RETURN AIR TEMPERATURE:
RETURN AIR SENSOR SHALL BE USED AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL. ALARMS SHALL BE PROVIDED FOR THE FOLLOWING:
- HIGH RETURN AIR TEMPERATURE IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90 °F (ADJ)
- LOW RETURN AIR TEMPERATURE IF THE RETURN AIR TEMPERATURE IS LOWER THAN 45 °F (ADJ)

EMERGENCY MODES:
RTUS SHALL DEENERGIZE VIA FIRE ALARM CONTROL PANEL (FACP) UPON THE DETECTION OF SMOKE FROM THE DUCT DETECTOR. THE FACP SHALL NOTIFY BAS.

GENERAL CONTROL REQUIREMENTS:

ALL POINTS AVAILABLE ON BUILDING CONTROL PANEL SHALL BE TRENDED. TREND DATA SHALL BE AVAILABLE AT LEAST EVERY MINUTE. SUFFICIENT STORAGE SHALL BE PROVIDED TO TREND ALL POINTS AT 5 MINUTE INTERVALS FOR A MINIMUM OF 30 DAYS.

KITCHEN HOODS KEF-01, KEF-02 & KEF-03:

THE HOODS SHALL BE PROVIDED WITH INTEGRAL CONTROLS. INTERLOCK HOOD TO SHUTOFF GAS SUPPLY WHEN A FIRE IS DETECTED. INTERLOCK WITH FIRE ALARM SYSTEM. NATURAL GAS SHALL AUTOMATICALLY SHUTDOWN UPON DISPATCH AND DEPLOYMENT ALARM TO THE HOUSE.

MOTORIZED DAMPER MD-04 SHALL BE INTERLOCKED WITH KEF-01 AND KEF-02. MOTORIZED DAMPER SHALL PARTIALLY CLOSE TO 60% FOR 720 CFM. WHEN KEF-01 AND KEF-02 ARE DISABLED, MD-04 SHALL OPEN TO FULL POSITION.

SPLIT SYSTEM AIR CONDITIONER AND CONDENSING UNITS PAC-01 AND AC-01:

PROVIDE WITH INTEGRAL CONTROLS TO MAINTAIN SPACE TEMPERATURE. PROVIDE SPACE TEMPERATURE SENSOR, INDEPENDENT OF UNIT, TO MONITOR SPACE TEMPERATURE. PROVIDE AN ALARM TO THE BUILDING CONTROL PANEL IF SPACE TEMPERATURE EXCEEDS 80 DEGF (ADJUSTABLE).

EXHAUST FANS SEQUENCE OF OPERATION:

EF-01 and SF-01 and EDH-01:

EXHAUST FAN AND SUPPLY FAN SHALL OPERATE CONTINUOUSLY. EDH-01 SHALL OPERATE TO MAINTAIN A DUCT TEMPERATURE SET POINT OF 65 DEG F(ADJ.)

EF-02:

EXHAUST FAN SHALL OPERATE CONTINUOUSLY.

EF-03 AND INTAKE HOOD IH-01 & IH-02:

APPARATUS BAY VENTILATION SYSTEM CONSISTS OF ONE CENTRIFUGAL FAN WITH AND TWO INTAKE HOOD WITH ASSOCIATED MOTORIZED DAMPERS (MD-01 & MD-02).

THE INTAKE HOOD MOTORIZED DAMPERS (MD-01 & MD-02) SHALL OPEN WHENEVER EF-03 IS ENABLED AND SHALL CLOSE WHENEVER EF-03 IS DISABLED.

EF-03 SHALL BE CONTROLLED BY THE SPACE MOUNTED CO/NOX SENSOR SYSTEM. WHENEVER SENSOR SYSTEM SENSES AN INCREASE OF CO AND/OR NOX LEVELS ABOVE SETPOINTS THE EXHAUST FAN'S MOTORIZED DAMPER (MD-05) SHALL OPEN AND THE EXHAUST FAN SHALL BE ENABLED. WHENEVER THE SETPOINT FALLS BELOW SETPOINTS FOR A PERIOD OF AT LEAST 1 MINUTE THE EXHAUST FAN SHALL BE DISABLED AND AFTER AN ADJUSTABLE TIME TO ALLOW FAN TO STOP, THE MOTORIZED DAMPER SHALL CLOSE.

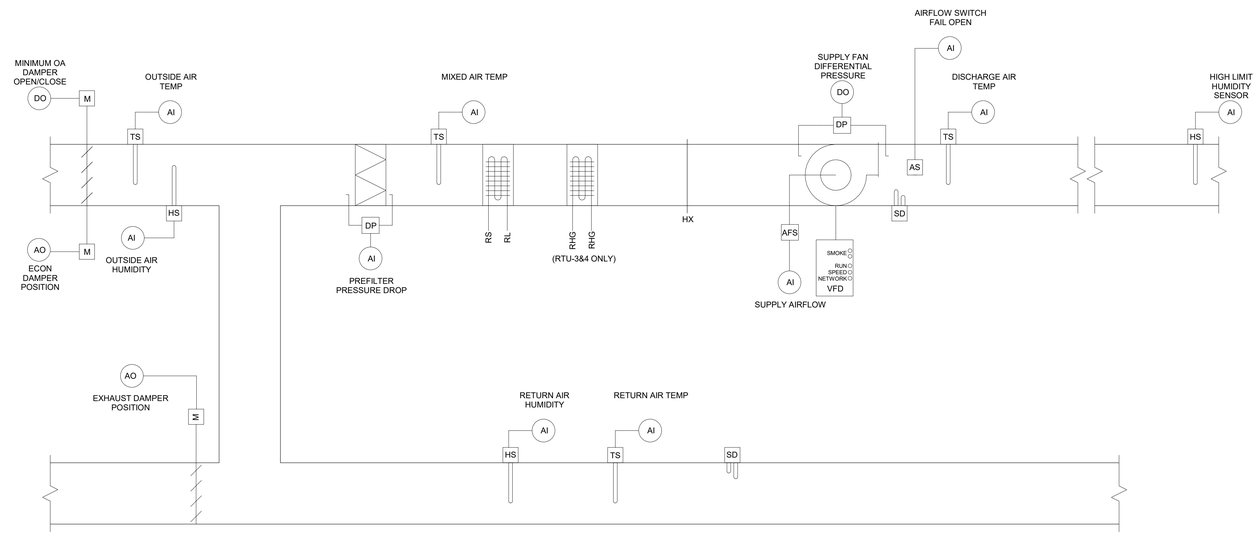
THE CO/NOX SENSOR PANEL SHALL BE PROVIDED WITH A HAND MODE TO ALLOW FOR MANUAL OPERATION OF EF-03 FOR SPACE VENTILATION.

EF-04 AND INTAKE HOOD IH-03:

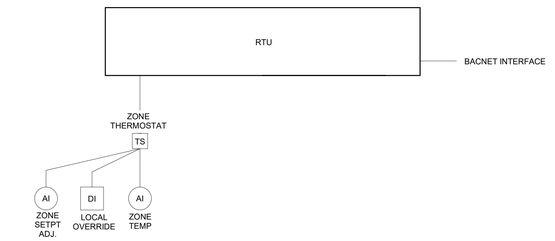
EF-04 WILL OPERATE ON MANUAL SWITCH. WHEN EF-04 IS ENABLED, OVERHEAD APPARATUS BAY DOORS SHALL BE MANUALLY OPEN AND MAN DOOR TO HOSE TOWER SHALL BE OPEN AS WELL. THE INTAKE HOOD MOTORIZED DAMPER (MD-03) SHALL OPEN WHENEVER EF-04 IS ENABLED AND SHALL CLOSE WHENEVER EF-04 IS DISABLED. MOTORIZED DAMPER (MD-03) SHALL ASSIST WITH MAKE-UP AIR VENTILATION AS NEEDED.

CONTROL SYMBOLS

AI	ANALOG INPUT
AO	ANALOG OUTPUT
AFS	AIR FLOW SENSOR
AS	AIR FLOW SWITCH
DP	DIFFERENTIAL PRESSURE
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
HS	HUMIDITY SENSOR
SD	SMOKE DETECTOR
TS	TEMPERATURE SENSOR



1 RTU CONTROL DIAGRAM
12" = 1'-0"



2 SINGLE ZONE PACKAGED UNIT HARDWARE GRAPHICS
12" = 1'-0"

CONTROLS SCHEDULE - RTU

POINT NAME	HARDWARE POINTS AI	AO	DI	DO	SOFTWARE POINTS AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
AIRFLOW SWITCH FAIL OPEN	x									x
DISCHARGE AIR TEMP	x									x
EXHAUST DAMPER POSITION		x						x	x	x
HIGH LIMIT HUMIDITY SENSOR	x								x	x
MINIMUM OA DAMPER OPEN/CLOSE				x						x
MIXED AIR TEMP	x							x	x	x
OUTSIDE AIR HUMIDITY	x							x		x
OUTSIDE AIR TEMP	x							x		x
PREFILTER PRESSURE DROP	x								x	x
RETURN AIR HUMIDITY	x							x	x	x
RETURN AIR TEMP	x							x	x	x
SUPPLY AIRFLOW	x							x	x	x
SUPPLY FAN DIFFERENTIAL PRESSURE				x					x	x

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

SEQUENCE OF OPERATIONS

Project No.
22135

Sheet No.
M700

Date
03/15/2024

STATE OF MISSOURI
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PROFESSIONAL ENGINEER
3/19/2024

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License No: PE-25112
Expiration Date: 12/31/2024

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PLUMBING

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 (PSI)
NP	NON POTABLE WATER
OD	OVERFLOW DRAIN
LP	PROPANE (PSI)
RO	REVERSE OSMOSIS WATER
	SANITARY PIPING
SD	STORM DRAIN
TW	TEMPERED WATER
TWR	TEMPERED WATER RECIRCULATING
	VENT (V)

SYMBOLS

- 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 ARESTOR
- SHUT OFF VALVE
- SOLENOID VALVE
- STRAINER
- TEMP & PRESSURE RELIEF VALVE
- TEST PLUG
- THERMOMETER
- UNION (DIELECTRIC)
- (DASHED) INDICATED PIPING TO BE REMOVED
- CONNECTION TO EXISTING
- EQUIPMENT NUMBER (DW / 1)
- INDICATES PLUMBING RISER (P / 1)
- KITCHEN EQUIPMENT NUMBER (1)
- REVISION DELTA (1)
- KEYED NOTE (#)
- KEYED NOTE DEMOLITION (#)

ABBREVIATIONS

AD	AREA DRAIN
ADA	PHYSICALLY CHALLENGED
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
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
BOT	BOTTOM
BT	BATHTUB
BOW	BOTTOM OF WALL
CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
CV	CHECK VALVE
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 16
ELEC	ELECTRIC
ELEV	ELEVATION
EQ	EQUAL
EXIST, EX	EXISTING
FA	FROM ABOVE
FD	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 15
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

ABBREVIATIONS

HE	HOSE END
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HOUSE TRAP
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH/INCHES
INV	INVERT
JP	JOCKEY PUMP
L	LENGTH
LVL	LEVEL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR - DIVISION 15
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
PC	PLUMBING CONTRACTOR - DIVISION 15
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 PIPE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SA	SHOCK ABSORBER
SAN	SANITARY
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 OFPIER CAP
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VB	VACUUM BREAKER
VCP	VITREOUS CLAY PIPE
VERT	VERTICAL
VL	VALVE
VOL	VOLUME
VTR	VENT THRU ROOF
W/O	WITH / WITHOUT
W	WASTE
WH	WALL HYDRANT
WT	WEIGHT
YD	YARD DRAIN

ANCHORAGE AND SWAY BRACING FOR PLUMBING COMPONENTS RELATED TO SEISMIC LOAD RESISTANCE

OCCUPANCY CATEGORY (IV) **SEISMIC DESIGN CATEGORY (D)**

LISTING OF EQUIPMENT & SYSTEM COMPONENTS (Refer to Attachment "C" in St. L. Co. Rules & Regulations Referenced in Explanatory Notes Below)	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE & SWAY BRACING DETAILS		COMMENTS
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	ON CONST. DOCUMENTS	SUBSEQUENT SUBMITTAL	
OTHER GENERAL EQUIPMENT & SYSTEM COMPONENTS IP=1.5							
WASTE PIPING		X		X		X	
VENT PIPING		X		X		X	
WATER PIPING		X		X		X	

EXPLANATORY NOTES:
1. IT IS THE BASIC INTENT OF THIS CODE BLOCK TO DECLARE WHETHER OR NOT ANCHORAGE AND SWAY BRACING IS BEING PROVIDED ON THE PROJECT. IF SO, TO DECLARE WHETHER OR NOT THE DETAILS ARE SHOWN ON THE PLANS OR WILL BE SHOWN ON A SUBSEQUENT SUBMISSION. IF SEISMIC RESTRAINT OF A COMPONENT IS NOT REQUIRED BY CODE THIS SHOULD BE STATED IN COMMENTS. IF SEISMIC RESTRAINT, WHICH IS NOT REQUIRED BY CODE, IS BEING PROVIDED DUE TO OWNER/DESIGNER REQUIREMENTS THIS SHOULD ALSO BE STATED IN THE COMMENTS.
2. PLANS SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE **COUNTY** 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.

1. SWAY BRACING REQUIRED IF PIPING IS SUSPENDED FROM STRUCTURE
2. ANCHORAGE & BRACING CONTRACTOR SHALL REFER TO SPECIFICATIONS AS WELL AS TO **ST. LOUIS COUNTY** RULES & REGULATIONS ON SEISMIC ANCHORAGE & SWAY BRACING (DATED 11/30/06).
3. EXEMPT; TABLE 600, EXCEPTION FOR PIPING. 3.A - NOMINAL PIPE SIZE OF 1 IN. OR LESS, SEISMIC DESIGN CATEGORY D, E OR F, AND IP>1.0.

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 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. THIS 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. THIS CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS. THIS CONTRACTOR SHALL FURNISH A COMPLETE AND CODE COMPLYING SYSTEM.
5. IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, HE/SHE SHOULD OBTAIN THE ENGINEERS WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THIS CONTRACTOR WILL 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 THIS CONTRACTOR. EXCAVATION, REMOVAL, AND BACKFILL FOR PLUMBING PIPING INSTALLATION BELOW GRADE SHALL BE BY THIS CONTRACTOR.
7. IT IS THE RESPONSIBILITY OF THIS 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.

DEMOLITION NOTES

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS. SPECIFICATIONS AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING PIPING AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS.
2. ALL ELBOWS, FITTINGS, ETC. IN PIPING ARE NOT NECESSARILY INDICATED.
3. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS, OR IS NOT SURE OF THEIR MEANING, HE/SHE SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION, PRIOR TO SUBMITTING HIS BID, SINCE THE CONTRACTOR SHALL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
4. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF BY THE CONTRACTOR.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING OF FLOOR(S), WALL(S), ROOF AND/OR CEILING REMOVAL AND REPLACEMENT IN AREAS WHERE THE ONLY WORK IS FIRE PROTECTION.
6. CONTRACTOR SHALL USE CAUTION WHEN REMOVING EXISTING PIPING, EQUIPMENT, ETC. TO AVOID DAMAGE TO ELECTRICAL WIRING, CONTROL WIRING, PIPING, ETC. THAT IS TO REMAIN. NOTIFY GC AND EC IF WIRING IS FOUND ATTACHED TO PIPING.
7. WHEREVER EXISTING EQUIPMENT, PIPING, ETC. ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC. UNLESS NOTED OTHERWISE AFTER REMOVAL; FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING AREAS.
8. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
9. WHERE POWERED AND/OR CONTROLLED EQUIPMENT OR ACCESSORIES ARE REMOVED AND WIRING IS NOT TO BE REUSED, REMOVE ALL WIRING BACK TO PANEL UNLESS NOTED OTHERWISE. MODIFY CONTROLS SYSTEM WHERE APPLICABLE TO REMOVE DEMOLISHED ITEM.
10. ALL UTILITY SHUTDOWNS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE OWNER.
11. COORDINATE ALL SYSTEM SHUT DOWNS WITH THE OWNER. MINIMIZE THE DOWNTIME OF SYSTEMS TO THE GREATEST EXTENT AS POSSIBLE.

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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MO Architect License No: A-6661
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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

PLUMBING SYMBOLS AND ABBREVIATIONS

Project No. 22135

Sheet No. P001

Date 03/15/2024

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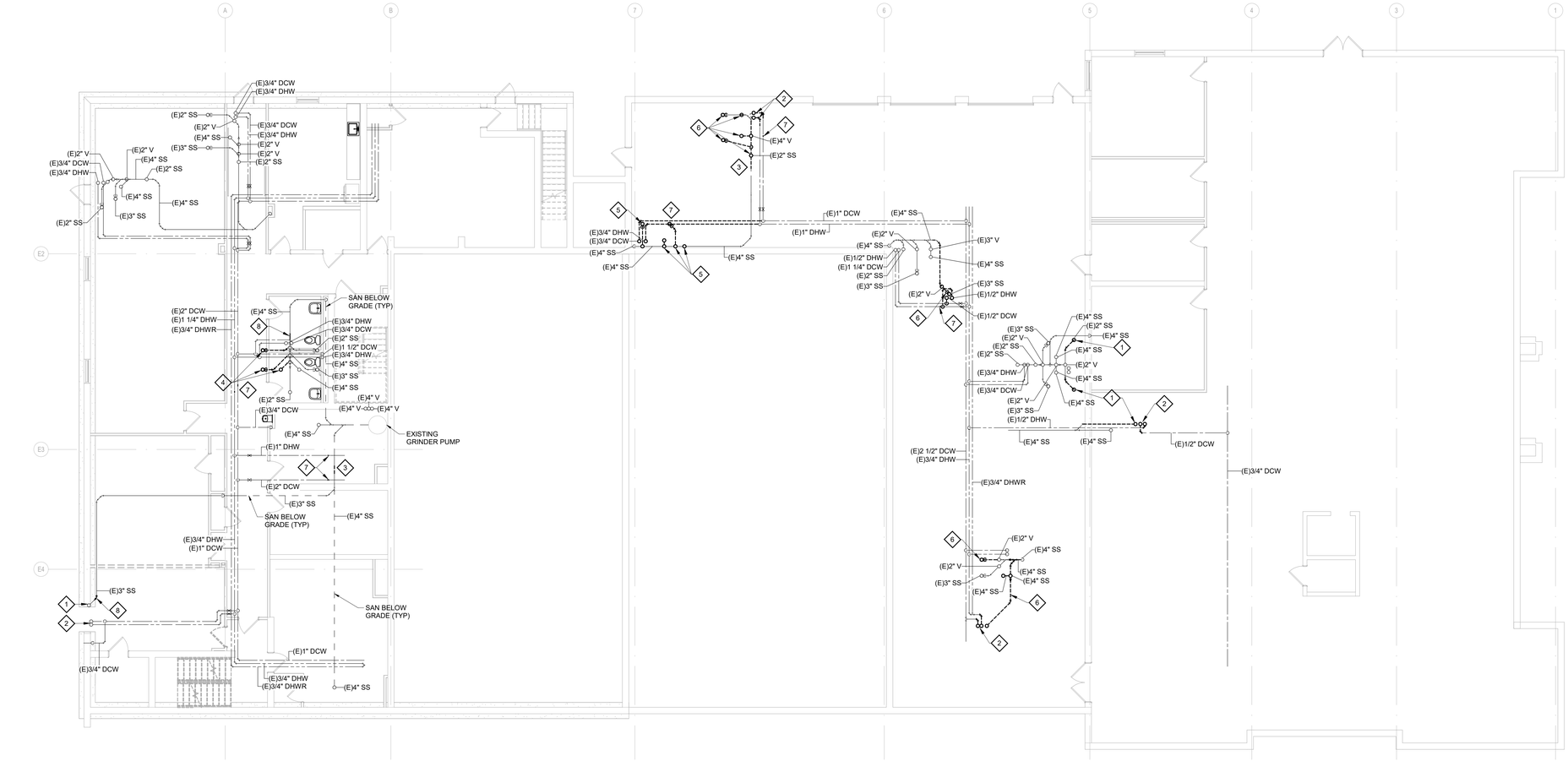
P100 DEMO KEYED NOTES

#	
1	REMOVE EXISTING WASTE AND PREPARE PIPING FOR FUTURE CONNECTION.
2	REMOVE EXISTING WATER PIPING BACK TO ELBOW AND CAP PIPE.
3	REMOVE EXISTING SECTION OF WASTE PIPING BELOW SLAB AND PREPARE FOR FUTURE CONNECTION.
4	REMOVE EXISTING WASTE PIPING TO WATER CLOSET, FLOOR DRAIN AND SHOWER BACK TO FITTING AND PREPPARE FOR FUTURE CONNECTION.
5	REMOVE EXISTING WASTE AND VENT PIPING BACK TO MAIN AND CAP.
6	REMOVE EXISITNG WASTE AND VENT PIPING AND PREPARE FOR FUTURE CONNECTION.
7	REMOVE EXISTING CW & HW SECTION AND PREPARE PIPE FOR NEW CONNECTION.
8	REMOVE EXISTING SECTION OF WASTE PIPING AND PREPARE FOR FUTURE CONNECTION.



1 LOWER LEVEL PLUMBING DEMO
1/8" = 1'-0"

8' 0' 8' 16'
SCALE: 1/8" = 1'-0"

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

LOWER LEVEL PLUMBING DEMO PLAN

Project No. 22135
Sheet No. P100
Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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

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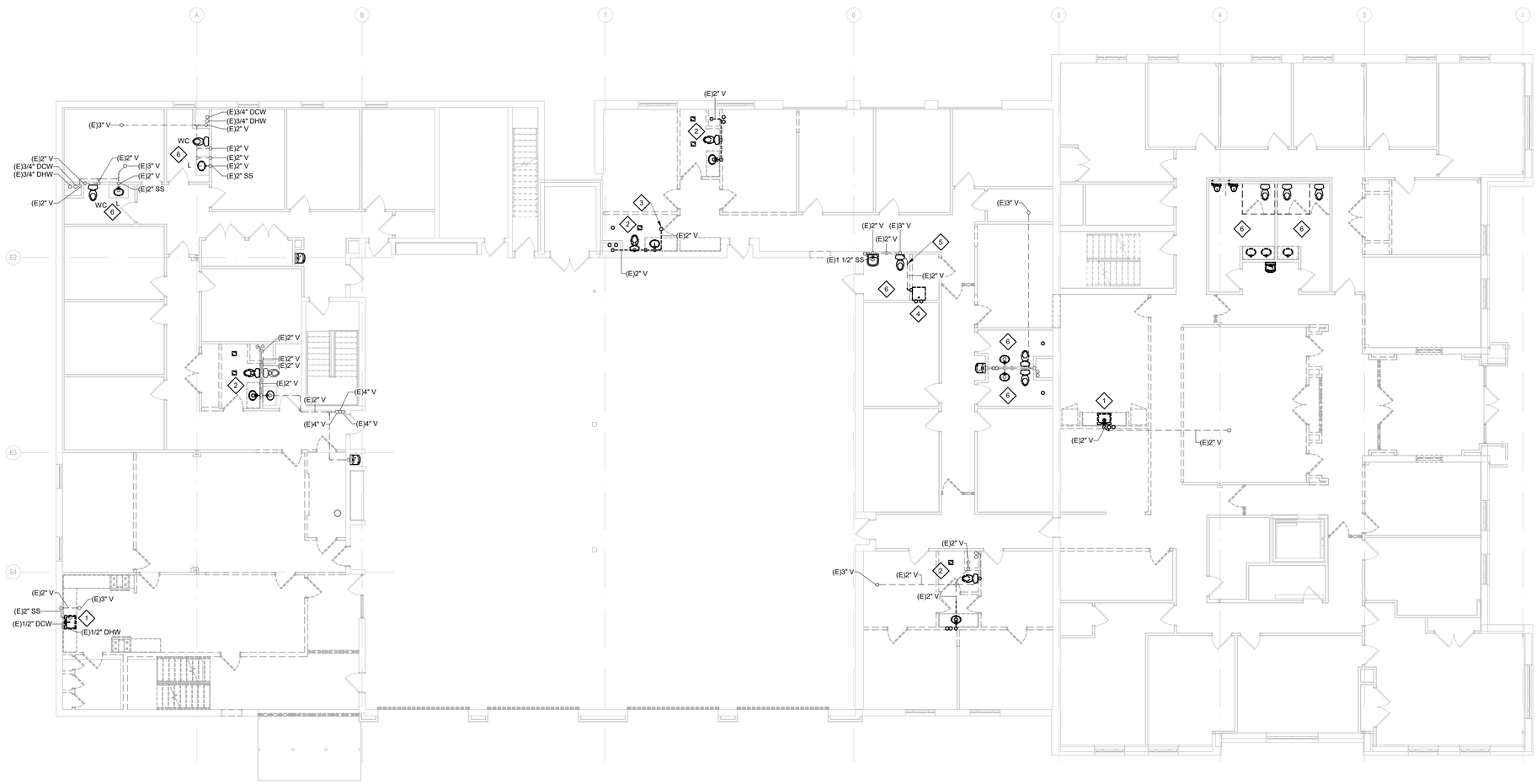
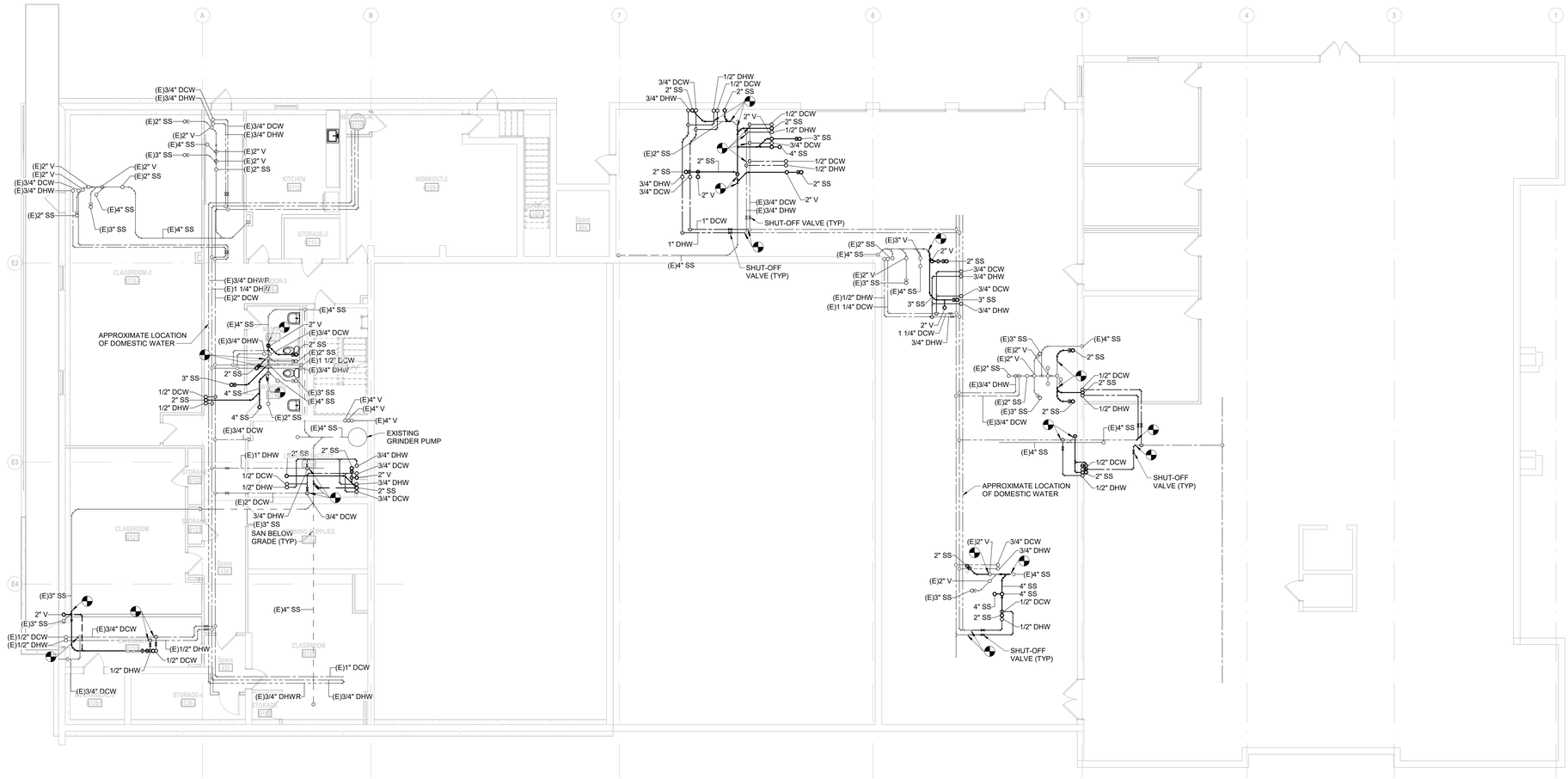
P101 DEMO KEYED NOTES

1. REMOVE EXISTING FIXTURE AND ALL ASSOCIATED TRIM. REMOVE EXISTING VENT ABOVE CEILING UP TO VTR AND REMOVE EXISTING WASTE BELOW FLOOR. PREPARE ALL PIPING FOR NEW CONNECTION.
2. REMOVE EXISTING WATER CLOSET, LAVATORY, FLOOR DRAIN, SHOWER AND ALL ASSOCIATED TRIM. REMOVE SANITARY BELOW FLOOR AND PREPARE PIPE FOR FUTURE CONNECTION. REMOVE EXISTING VENT BACK AT MAIN AND CAP.
3. REMOVE EXISTING VTR AND PATCH ROOF OPENING. MATCH EXISTING ROOF CONSTRUCTION.
4. REMOVE EXISTING MOP BASIN AND ALL ASSOCIATED TRIM. REMOVE EXISTING WATER AND VENT BACK TO ELBOW AND PREPARE PIPE FOR FUTURE CONNECTION.
5. REMOVE EXISTING SECTION OF VENT POIPING AND PREPARE FOR NEW CONNECTION.
6. REMOVE EXISTING WATER CLOSET, LAVATORY, FLOOR DRAIN, SHOWER AND ALL ASSOCIATED TRIM. REMOVE SANITARY BELOW FLOOR AND PREPARE PIPE FOR FUTURE CONNECTION.


(E)3" V
(E)3/4" DCW
(E)3/4" DHW
(E)2" V
WC
(E)2" SS
(E)2" V
(E)3" V
(E)2" V
(E)2" V
(E)2



1 LOWER LEVEL PLUMBING PLAN

1/8" = 1'-0"

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

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MO Architect License No: A-6661
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Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

LOWER LEVEL PLUMBING FLOOR PLAN

Project No. 22135

Sheet No. P200

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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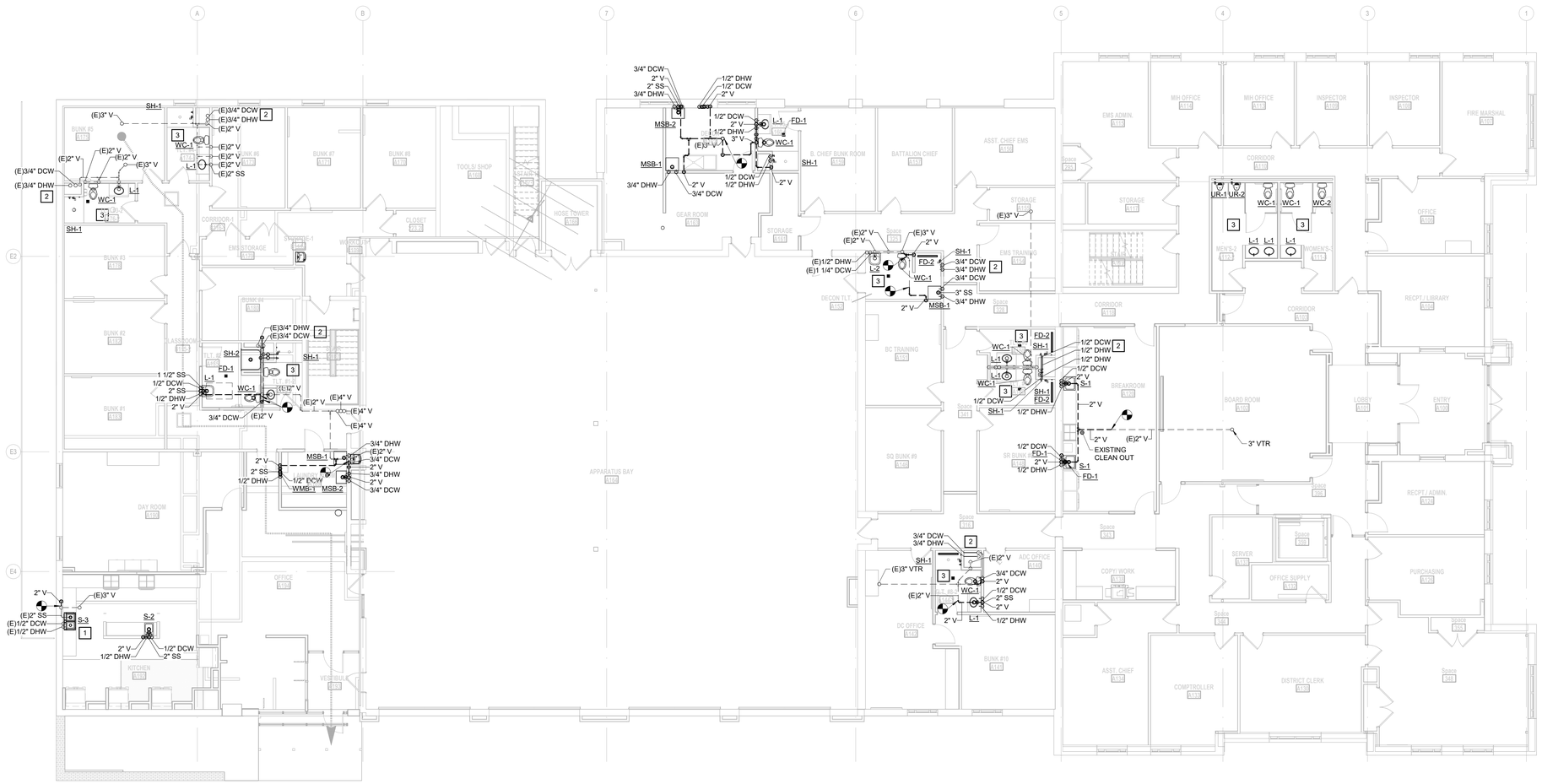
P201 KEYED NOTES

#	
1	CONNECT EXISTING DOMESTIC HOT/COLD WATER TO NEW FAUCET. PROVIDE NEW SANITARY TRAP BACK TO EXISTING CONNECTION AT WALL.
2	CONNECT EXISTING DOMESTIC HOT/COLD WATER TO NEW SHOWER HEAD AND FAUCET.
3	PROVIDE NEW WATER CLOSET, LAVATORY, FLOOR DRAIN, SHOWER AND ALL ASSOCIATED TRIM. CONNECT TO EXISTING PIPING WITH NEW TRIM FROM NEW FIXTURES.



1 FIRST FLOOR PLUMBING
1/8" = 1'-0"

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

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EXPIRATION DATE: DECEMBER 31, 2024

[Consultants]

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

FIRST FLOOR PLUMBING PLAN

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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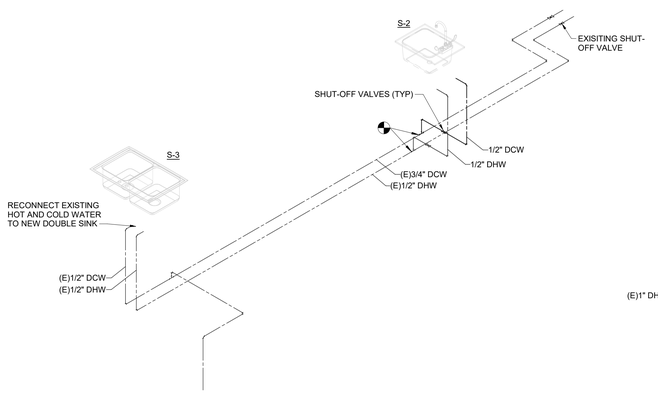
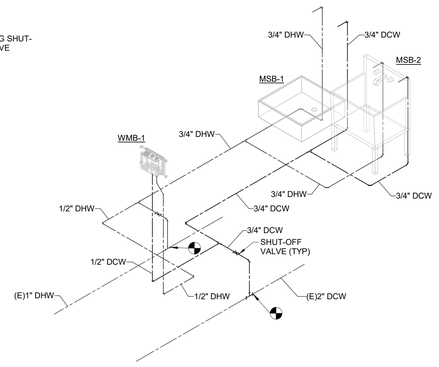
Project No. 22135

Sheet No. P201

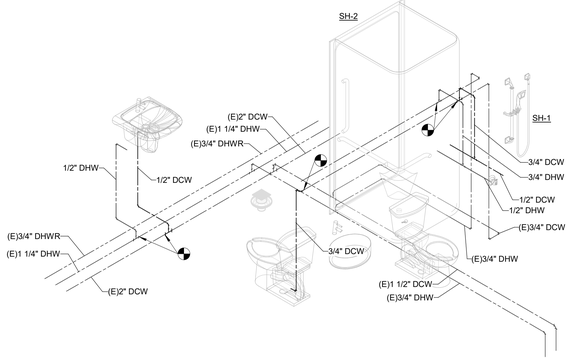
Date 03/15/2024



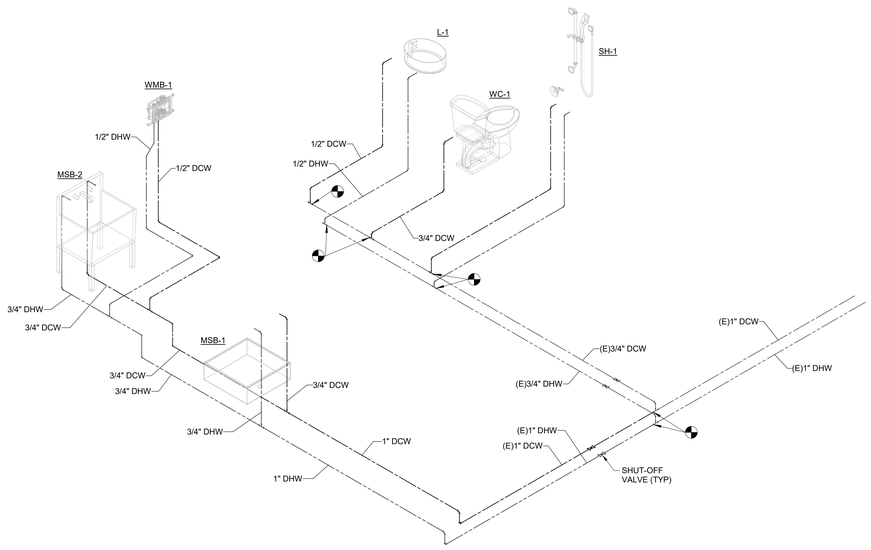
1 DOMESTIC WATER RISER - KITCHEN 203



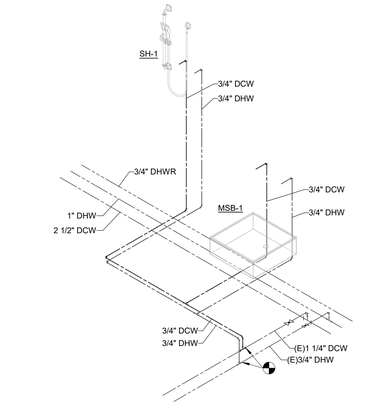
2 DOMETIC WATER RISER -LAUNDRY ROOM 205



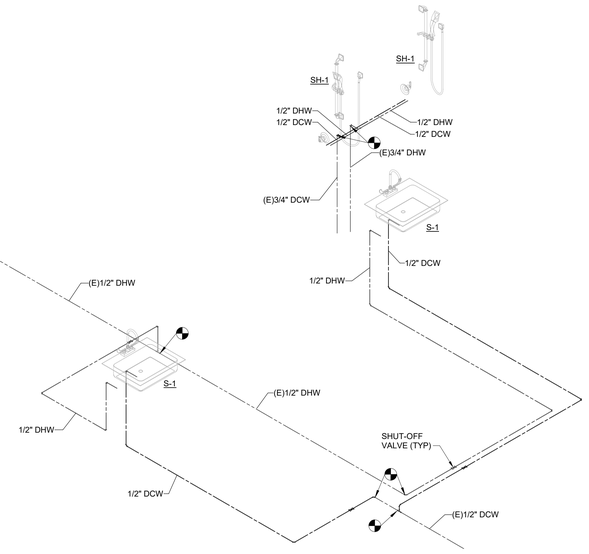
3 DOMESTIC WATER RISER - TLT #1 & 2



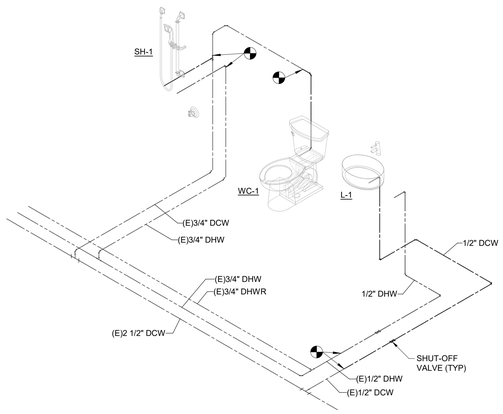
4 DOMESTIC WATER RISER - DECON & TLT #5



5 DOMESTIC WATER RISER - DECON TLT.



6 DOMESTIC RISER DIAGRAM - TLT #6 & 7, BREAKROOM



7 DOMESTIC RISER DIAGRAM - TLT. #8

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Roy A. Mangan
MO Architect License No: A-6661
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CERTIFICATE OF AUTHORITY NUMBER: 2007001570
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Revision	Date

PLUMBING RISERS

Project No. 22135
Sheet No. P400
Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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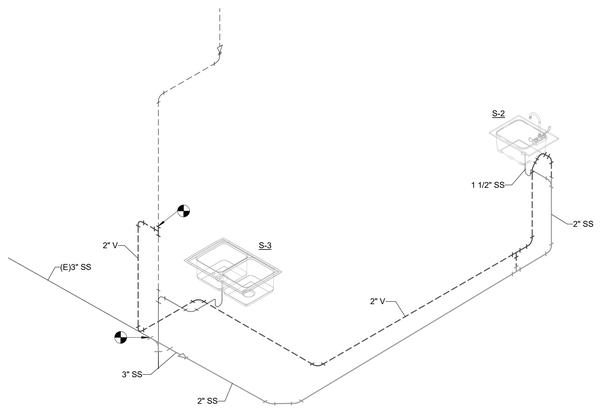
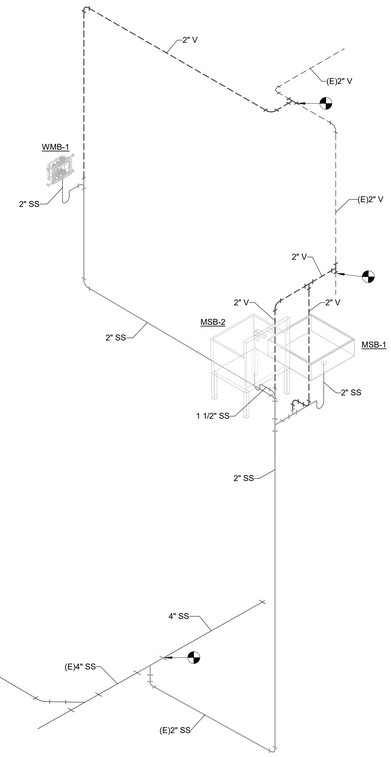
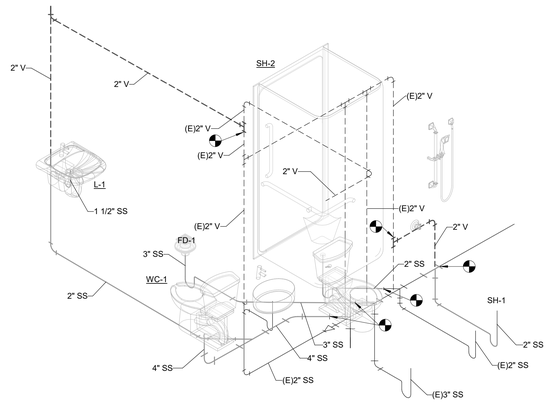


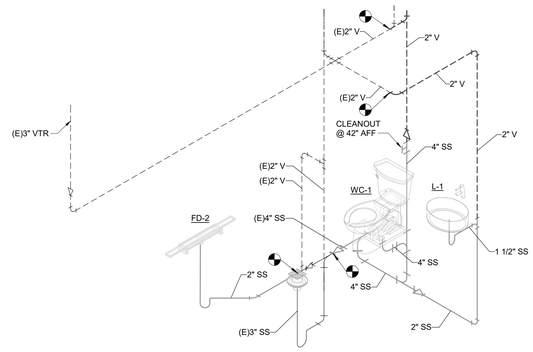
1 SANITARY RISER DIAGRAM - KITCHEN 203



2 SANITARY RISER DIAGRAM - LAUNDRY 205



3 SANITARY RISER DIAGRAM - TLT #1 & 2



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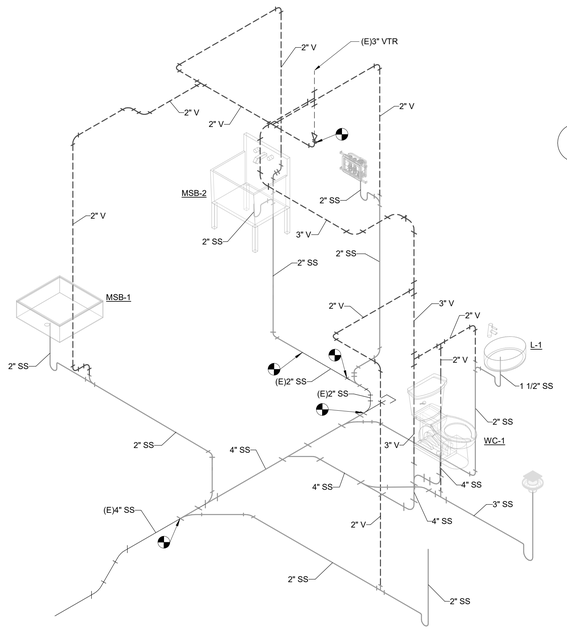
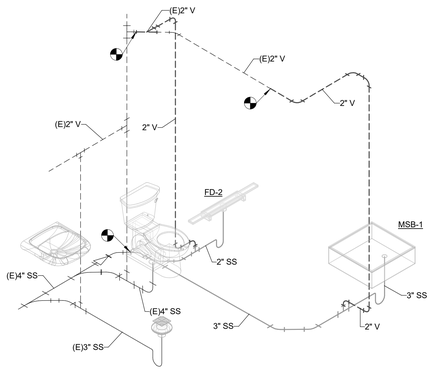
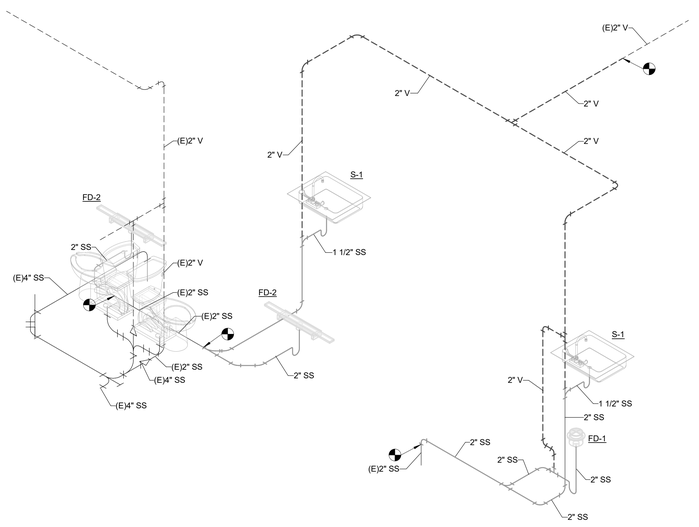


5 SANITARY RISER DIAGRAM - DECON & TLT #5



6 SANITARY RISER DIAGRAM - DECON TLT.



7 SANITARY RISER DIAGRAM - TLT #6 & 7, BREAK ROOM

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MO Architect License No: A-6661
Expires: 12/31/22

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CERTIFICATE OF AUTHORITY NUMBER: 2007019
EXPIRATION DATE: DECEMBER 31, 2024
[Consultants]

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

PLUMBING RISERS

Project No.
22135

Sheet No.
P401

Date
03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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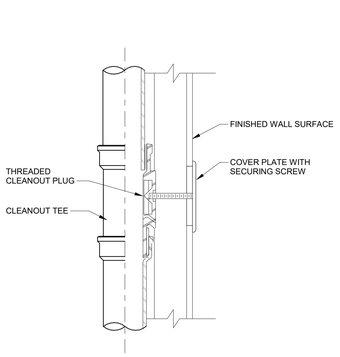

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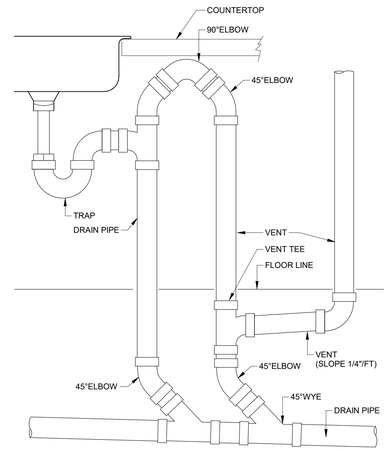
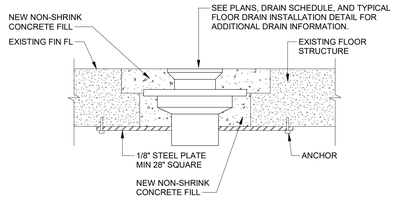
P500 SCALE: NTS



2 LOOP VENT SCHEMATIC DETAIL
P500 SCALE: NTS



3 FLOOR DRAIN IN EXISTING SLAB DETAIL
P500 SCALE: NTS

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

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STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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Roy A. Mangan
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CERTIFICATE OF AUTHORITY: 2007001059
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

PLUMBING DETAILS

Project No. 22135
Sheet No. P500
Date 03/15/2024

DRAIN SCHEDULE

MARK	MANUFCTURER	MODEL NO	COMMENTS	REMARKS
FD-1	ZURN	ZS415BS	ADJUSTABLE,NICKEL BRASS, 6"-2"OUTLET, 6"-3"OUTLET, 6"-4"OUTLET	FINISHED AREAS (1,2)

NOTES:
1. REFER TO PLANS FOR DRAIN OUTLET SIZE.
2. WITH #P050 TRAP PRIMER CONNECTION.

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER & MODEL NUMBER	UTILITIES				REMARKS
		WASTE	VENT	CW	HW	
WC-1	FIXTURE: KOHLER "KINGSTON" #K-25077-SS-0 SEAT: BEMIS 1955-SSCT	4"	2"	1"	-	WHITE VITREOUS CHINA, 16-1/2" ADA MOUNTING HEIGHT, ELONGATED BOWL, FLOOR MOUNT, 12" ROUGH-IN, 4 BOLT BASE, 1.28 GPF, HANDLE MOUNTED ON OPEN SIDE OF ROOM, GRAVITY FED FLUSHING WHITE ELONGATED, OPEN FRONT, SELF-SUSTAINING CHECK HINGE
WC-2	FIXTURE: KOHLER "KINGSTON" #K-25087-TR SEAT: BEMIS 1955-SSCT	4"	2"	1"	-	WHITE VITREOUS CHINA, FLOOR MOUNTING, ELONGATED BOWL, FLOOR MOUNT, 12" ROUGH-IN, 4 BOLT BASE, 1.28 GPF, HANDLE MOUNTED ON OPEN SIDE OF ROOM, GRAVITY FED FLUSHING WHITE ELONGATED, OPEN FRONT, SELF-SUSTAINING CHECK HINGE
UR-1	FIXTURE: KOHLER "DEXTER" #K-PR5452-T1DS	2"	2"	1"	-	WHITE VITREOUS CHINA, ADA WALL MOUNT, 9 1/2" ROUGH-IN, 2 BOLT BASE, 2 WALL HANGERS, 0.5 GPF, ELECTRONIC INFRARED SENSOR WITH TRIPOINT. FLUSHVALE #K-10UH00G20
UR-1	FIXTURE: KOHLER "DEXTER" #K-PR5452-T1DS	2"	2"	1"	-	WHITE VITREOUS CHINA, WALL MOUNT, 17 1/2" ROUGH-IN, 2 BOLT BASE, 2 WALL HANGERS, 0.5 GPF, ELECTRONIC INFRARED SENSOR WITH TRIPOINT. FLUSHVALE #K-10UH00G20
MSB-1	FIXTURE: FIAT #MSB-2424 FAUCET: CHICAGO #956R MOP HANGER: FIAT #899-CC HOSE/ BRACKET: FIAT #832-AA	3"	2"	1/2"	1/2"	FLOOR SET, 24" x 24" x 10" SERVICE SINK FITTING WITH VACUUM BREAKER, 5' HOSE [2]
MSB-2	FIXTURE: FIAT #TAT1	3"	2"	1/2"	1/2"	HEAVY DUTY POLYPROPYLENE, SINGLE BOWL, LAUNDRY TUB WITH LEGS, CHROME PLATED FAUCET (A1) WITH 4" (102MM) CENTERSET, 4" (102MM) BLADE HANDLES, 6-3/4" (171MM) SWING SPOUT, AERATOR AND HOSE ADAPTOR, CARTON INCLUDES LAUNDRY TUB WITH LEGS, FAUCET, INTEGRAL DRAIN WITH PLUG, P-TRAP AND SUPPLY LINE
WSB-1	WASHER SUPPLY BOX: OATEY "MODA" 2-PIECE WASHING MACHINE OUTLET BOX	-	2"	1/2"	1/2"	PROVIDE WASTE PIPE WITH P-TRAP AT FIXTURE CONNECTION
L-1	FIXTURE: KOHLER "PENNINGTON" K-2196-1-0 FAUCET: MOEN #9419F12 STRAINER: MCGUIRE #155A P-TRAP: MCGUIRE #C8902 SUPPLIES: MCGUIRE #LFH2165CCLK	2"	1-1/2"	1/2"	1/2"	VITREOUS CHINA, DROP-IN, ADA COMPLIANT, OVAL BASIN WITH OVERFLOW DRAIN, SINGLE HOLE CHROME FINISH, MANUAL OPERATION, SINGLE-HOLE DECK MOUNTED, VANDAL RESISTANT, 1.2 GPM AERATING SPRAY OUTLET, ADA COMPLIANT, LESS DRAIN. OPEN GRID, POLISHED CHROME STRAINER WITH 1-1/4" TAILPIECE 17 GA, CHROME PLATED CAST-BRASS WITH CLEANOUT ANGLE VALVES, CHROME PLATED, LOOSE KEY STOPS, 1/2" INLET, 3/8" OUTLET
L-2	FIXTURE: AMERICAN STANDARD "MURRO" #0955.001EC FAUCET: MOEN "M-POWER" #8559 STRAINER: MCGUIRE #155A P-TRAP: MCGUIRE #C8902 SUPPLIES: MCGUIRE #LFH2165CCLK SHROUD: AMERICAN STANDARD #0059.020EC	2"	1-1/2"	1/2"	1/2"	VITREOUS CHINA WITH EVERCLEAN, ADA MOUNTING HEIGHT, BARRIER FREE, WALL-HUNG, CENTER-HOLE WITH OVERFLOW BATTERY-POWERED SENSOR OPERATED, SINGLE-HOLE DECK MOUNTED, VANDAL RESISTANT 0.5 GPM NON-AERATING SPRAY OUTLET, CAST BRASS CONSTRUCTION, USER ADJUSTABLE INTEGRAL THERMOSTATIC MIXING VALVE, POLISHED CHROME, ADA COMPLIANT. [1] OPEN GRID, POLISHED CHROME STRAINER WITH 1-1/4" TAILPIECE 17 GA, CHROME PLATED CAST-BRASS WITH CLEANOUT ANGLE VALVES, CHROME PLATED, LOOSE KEY STOPS, 1/2" INLET, 3/8" OUTLET VITREOUS CHINA SHROUD/KNEE GUARD, ADA COMPLIANT
S-1	FIXTURE: ELKAY "LUSTERTONE" #LRAD131655 FAUCET: DELTA "TRINSIC" #9159-DST STRAINER: MCGUIRE #155A P-TRAP: MCGUIRE #C8902 SUPPLIES: MCGUIRE #LFH2165CCLK DISPOSER: IN-SINK-ERATOR "EVOLUTION"	2"	1-1/2"	1/2"	1/2"	18 GA. STAINLESS STEEL, SINGLE BOWL, UNDERMOUNT, 13"x16"x6.5" PULL DOWN KITCHEN FAUCET WITH MULTI-FUNCTION SPRAY HEAD, POLISHED CHROME OPEN GRID, POLISHED CHROME STRAINER WITH 1-1/4" TAILPIECE 17 GA, CHROME PLATED CAST-BRASS WITH CLEANOUT ANGLE VALVES, CHROME PLATED, LOOSE KEY STOPS, 1/2" INLET, 3/8" OUTLET STAINLESS STEEL GRIND CHAMBER, GRIND RING, AND TURNTABLE, UL LISTED, 6 YEAR WARRANTY, 3/4 HP
S-2	FIXTURE: ELKAY "LUSTERTONE" #LRAD252165PD FAUCET: DELTA "TRINSIC" #1959LF STRAINER: MCGUIRE #155A P-TRAP: MCGUIRE #C8902 SUPPLIES: MCGUIRE #LFH2165CCLK	2"	1-1/2"	1/2"	1/2"	18 GA. STAINLESS STEEL, SINGLE BOWL, UNDERMOUNT, ADA DEPTH, 18"x16"x6" LIMITED SWING BAR SINK, SINGLE HANDLE, DECK MOUNT, ADA COMPLIANT, CHROME OPEN GRID, POLISHED CHROME STRAINER WITH 1-1/4" TAILPIECE 17 GA, CHROME PLATED CAST-BRASS WITH CLEANOUT ANGLE VALVES, CHROME PLATED, LOOSE KEY STOPS, 1/2" INLET, 3/8" OUTLET
SH-1	FIXTURE: MOEN #T8342 MIXING VALVE: MOEN POSI-TEMP VALVE	-	-	1/2"	1/2"	CHROME PLATED, 3-FUNCTION TRANSFER VALVE, SHOWER HEAD AND HAND-HELD WAND WITH FLEXIBLE 69" METAL HOSE AND WALL CONNECTION, 30" CHROME SLIDE BAR, ADA COMPLIANT LEVER HANDLES AND ASSEMBLY. REFER TO DETAIL 10/P51 FOR PIPING DETAILS. REFER TO ARCHITECTURAL SHEETS FOR ASSEMBLY DETAILS.

NOTES:

[1] FAUCET WITH INTERNAL TEMPERATURE CONTROL DEVICE DOES NOT REQUIRE MIXING VALVE INSTALLATION PER SPECIFICATION SECTION 224400-3.3-Q.

[2] REFER TO SPECIFICATION SECTION 224300-3.1-DD. PROVIDE AND INSTALL BACKFLOW PREVENTION DEVICES ON ALL DOMESTIC BRANCHES SERVING MSB-1 FIXTURES.

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MO Architect License No: A-6661
Expires: 12/31/22

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DISCIPLINE: PROFESSIONAL ENGINEERING
REGISTERED: RICHARD W. HALTEMAN
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

PLUMBING SCHEDULES

Project No. 22135

Sheet No. P600

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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

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SYMBOLS

- 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 ARESTOR
- SHUT OFF VALVE
- SOLENOID VALVE
- STRAINER
- TEMP & PRESSURE RELIEF VALVE
- TEST PLUG
- THERMOMETER
- UNION (DIELECTRIC)
- (DASHED) INDICATED PIPING TO BE REMOVED
- CONNECTION TO EXISTING
- EQUIPMENT NUMBER (DW 1)
- INDICATES PLUMBING RISER (P 1)
- KITCHEN EQUIPMENT NUMBER (1)
- REVISION DELTA (1)
- KEYED NOTE (#)
- KEYED NOTE DEMOLITION (#)

FIRE PROTECTION

- CONTROL VALVE WITH TAMPER SWITCH (TS)
- ELECTRIC MOTOR ALARM GONG
- FIRE MAIN (F)
- FIRE PUMP TEST HEADER
- FLOW SWITCH (FS)
- ROOF HYDRANT OUTLET
- SIAMESE CONNECTION
- SPRINKLER MAIN - SIZED BASED ON HYDRAULIC CALCULATIONS (SP)
- SEMI RECESSED
- CONCEALED
- PENDANT/UPRIGHT
- SIDEWALL

ABBREVIATIONS

AD	AREA DRAIN
ADA	PHYSICALLY CHALLENGED
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
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
BOT	BOTTOM
BT	BATHTUB
BOW	BOTTOM OF WALL
CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
CV	CHECK VALVE
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 16
ELEC	ELECTRIC
ELEV	ELEVATION
EQ	EQUAL
EXIST, EX	EXISTING
FA	FROM ABOVE
FD	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 15
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

ABBREVIATIONS

HE	HOSE END
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HOUSE TRAP
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH/INCHES
INV	INVERT
JP	JOCKEY PUMP
L	LENGTH
LVL	LEVEL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR - DIVISION 15
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
PC	PLUMBING CONTRACTOR - DIVISION 15
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 PIPE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SA	SHOCK ABSORBER
SAN	SANITARY
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 OFPIER CAP
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VB	VACUUM BREAKER
VCP	VITREOUS CLAY PIPE
VERT	VERTICAL
VL	VALVE
VOL	VOLUME
VTR	VENT THRU ROOF
W/O	WITH / WITHOUT
W	WASTE
WH	WALL HYDRANT
WT	WEIGHT
YD	YARD DRAIN

ANCHORAGE AND SWAY BRACING FOR FIRE PROTECTION COMPONENTS RELATED TO SEISMIC LOAD RESISTANCE

OCCUPANCY CATEGORY (IV) **SEISMIC DESIGN CATEGORY (D)**

LISTING OF EQUIPMENT & SYSTEM COMPONENTS [Refer to Attachment "C" in St. L. Co. Rules & Regulations Referenced in Explanatory Notes Below]	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE & SWAY BRACING DETAILS		COMMENTS
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	ON CONST. DOCUMENTS	SUBSEQUENT SUBMITTAL	
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. IT IS THE BASIC INTENT OF THIS CODE BLOCK TO DECLARE WHETHER OR NOT ANCHORAGE AND SWAY BRACING IS BEING PROVIDED ON THE PROJECT. IF SO, TO DECLARE WHETHER OR NOT THE DETAILS ARE SHOWN ON THE PLANS OR WILL BE SHOWN ON A SUBSEQUENT SUBMISSION. IF SEISMIC RESTRAINT OF A COMPONENT IS NOT REQUIRED BY CODE THIS SHOULD BE STATED IN COMMENTS. IF SEISMIC RESTRAINT, WHICH IS NOT REQUIRED BY CODE, IS BEING PROVIDED DUE TO OWNER/DESIGNER REQUIREMENTS THIS SHOULD ALSO BE STATED IN THE COMMENTS.
2. PLANS SIGNED AND SEALED BY A MISSOURI PROFESSIONAL ENGINEER ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE COUNTY 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.

1. SWAY BRACING REQUIRED IF PIPING IS SUSPENDED FROM STRUCTURE.
2. ANCHORAGE & BRACING CONTRACTOR SHALL REFER TO SPECIFICATIONS AS WELL AS TO ST. LOUIS COUNTY RULES & REGULATIONS ON SEISMIC ANCHORAGE & SWAY BRACING (DATED 11/30/06).
3. EXEMPT; TABLE 600, EXCEPTION FOR PIPING. 3.A - NOMINAL PIPE SIZE OF 1 IN. OR LESS, SEISMIC DESIGN CATEGORY D, E OR F, AND IP>1.0.

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. THIS 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. THIS CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS. THIS CONTRACTOR SHALL FURNISH A COMPLETE AND CODE COMPLYING SYSTEM.
5. IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, HE/SHE SHOULD OBTAIN THE ENGINEERS WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
6. CUTTING, REMOVING AND PATCHING OF EXISTING FLOOR(S), WALL(S), ROOF ETC., FOR FIRE PROTECTION PIPING INSTALLATION SHALL BE BY THIS CONTRACTOR.
7. IT IS THE RESPONSIBILITY OF THIS 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.

DEMOLITION NOTES

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS. SPECIFICATIONS AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING PIPING AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS.
2. ALL ELBOWS, FITTINGS, ETC. IN PIPING ARE NOT NECESSARILY INDICATED.
3. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS, OR IS NOT SURE OF THEIR MEANING, HE/SHE SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION, PRIOR TO SUBMITTING HIS BID, SINCE THE CONTRACTOR SHALL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
4. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF BY THE CONTRACTOR.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING OF FLOOR(S), WALL(S), ROOF AND/OR CEILING REMOVAL AND REPLACEMENT IN AREAS WHERE THE ONLY WORK IS FIRE PROTECTION.
6. CONTRACTOR SHALL USE CAUTION WHEN REMOVING EXISTING PIPING, EQUIPMENT, ETC. TO AVOID DAMAGE TO ELECTRICAL WIRING, CONTROL WIRING, PIPING, ETC. THAT IS TO REMAIN. NOTIFY GC AND EC IF WIRING IS FOUND ATTACHED TO PIPING.
7. WHEREVER EXISTING EQUIPMENT, PIPING, ETC. ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC. UNLESS NOTED OTHERWISE AFTER REMOVAL; FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING AREAS.
8. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
9. WHERE POWERED AND/OR CONTROLLED EQUIPMENT OR ACCESSORIES ARE REMOVED AND WIRING IS NOT TO BE REUSED, REMOVE ALL WIRING BACK TO PANEL UNLESS NOTED OTHERWISE. MODIFY CONTROLS SYSTEM WHERE APPLICABLE TO REMOVE DEMOLISHED ITEM.
10. ALL UTILITY SHUTDOWNS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE OWNER.
11. COORDINATE ALL SYSTEM SHUT DOWNS WITH THE OWNER. MINIMIZE THE DOWNTIME OF SYSTEMS TO THE GREATEST EXTENT AS POSSIBLE.

SPRINKLER HEAD SCHEDULE

MARK	STYLE	ELEMENT BULB		COVERAGE	OCCUPANCY RATING	FINISH	ESCUTCHEON	SPECIALS	VIKING MODEL NO.	REMARKS
		RESPONSE	TEMP CLASS							
A	RP	QR	ORDINARY	SC	LH	W	R	-	VK302	SEMI-RECESSED
B	C	QR	ORDINARY	SC	LH	W	F	-	VK462	CONCEALED HEAD

STYLE	RESPONSE	COVERAGE	OCCUPANCY RATING	FINISH	ESCUTCHEON
C- CONCEALED PENDANT	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 AREAES NOT LISTED BELOW
OH-1 ORDINARY HAZARD GROUP 1	1500 SF	0.15 GPM	STORAGE ROOMS, MECH. ROOMS, ELEC. ROOMS, SHELL SPACES, ACCESIBLE 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	

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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MO Architect License No: A-6661
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LICENSE NO: PE-25112 EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

FIRE PROTECTION SYMBOLS AND

Project No. 22135

Sheet No. FP001

Date 03/15/2024

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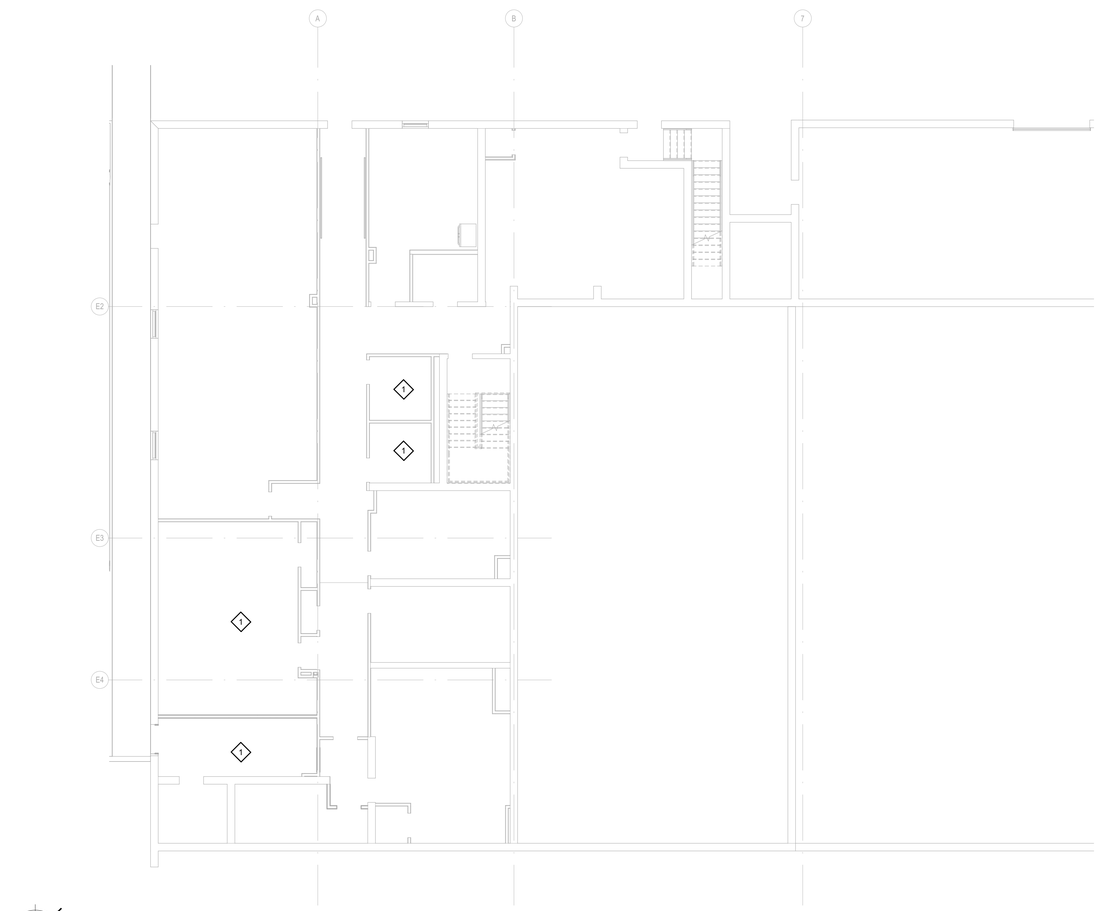
FP100 DEMO KEYED NOTES

1 REMOVE EXISTING SPRINKLER HEADS AND PIPING IN THIS AREA. PREPARE FIRE PROTECTION PIPING FOR NEW CONNECTION.



1 LOWER LEVEL FIRE PROTECTION DEMO
1/8" = 1'-0"

8' 0' 8' 16'
SCALE: 1/8" = 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, 2024

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Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Revision	Date

LOWER LEVEL FIRE PROTECTION DEMO PLAN

Project No.
22135

Sheet No.
FP100

Date
03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
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PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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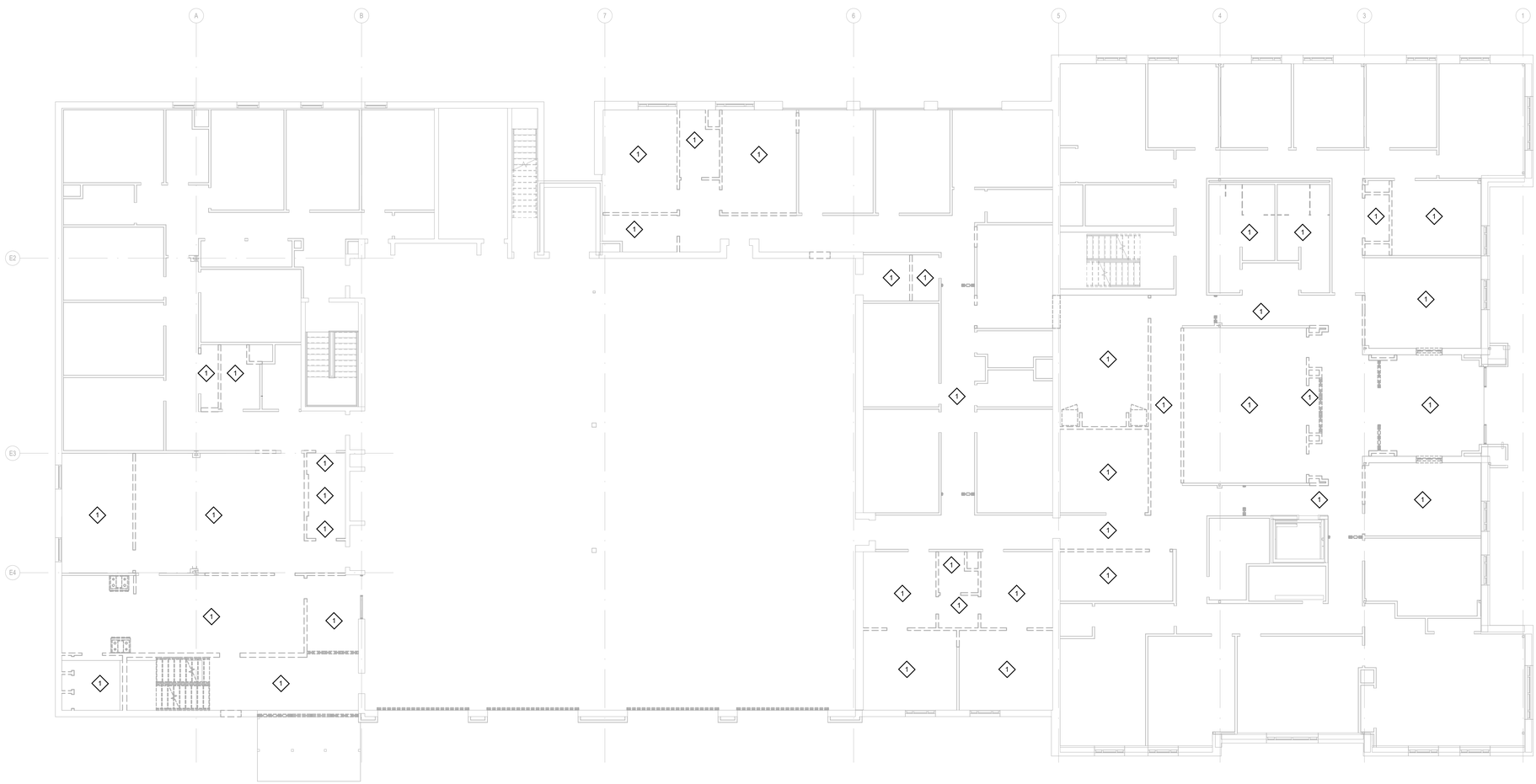
FP101 DEMO KEYED NOTES

1 REMOVE EXISTING SPRINKLER HEADS AND PIPING IN THIS AREA. PREPARE FIRE PROTECTION PIPING FOR NEW CONNECTION.



1 FIRST FLOOR FIRE PROTECTION DEMO
1/8" = 1'-0"

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

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Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Revision	Date

FIRST FLOOR FIRE PROTECTION DEMO PLAN

Project No.
22135

Sheet No.
FP101

Date
03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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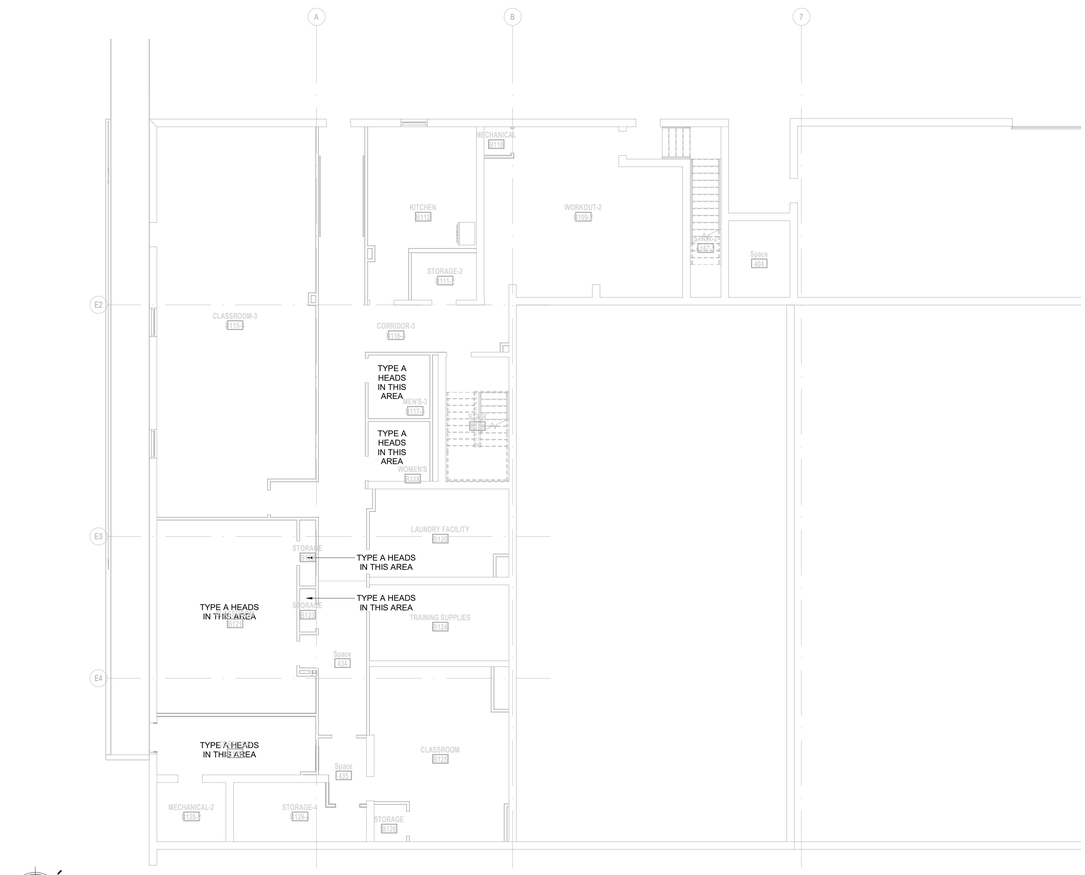

1 LOWER LEVEL FIRE PROTECTION
1/8" = 1'-0"

8' 0' 8' 16'
SCALE: 1/8" = 1'-0"

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CERTIFICATE OF AUTHORITY: 2007009
EXPIRATION DATE: DECEMBER 31, 2024
[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

LOWER LEVEL FIRE PROTECTION PLAN

Project No.
22135

Sheet No.
FP200

Date
03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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

1 FIRST FLOOR FIRE PROTECTION
1/8" = 1'-0"

8' 0' 8' 16'
SCALE: 1/8" = 1'-0"

Roy A. Mangan
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ARCHITECT: ROY A. MANGAN
EXPIRATION DATE: DECEMBER 31, 2024

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Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

FIRST FLOOR FIRE PROTECTION PLAN

Project No. 22135

Sheet No. FP201

Date 03/15/2024

STATE OF MISSOURI
RICHARD W. HALTEMAN
NUMBER PE-25112
PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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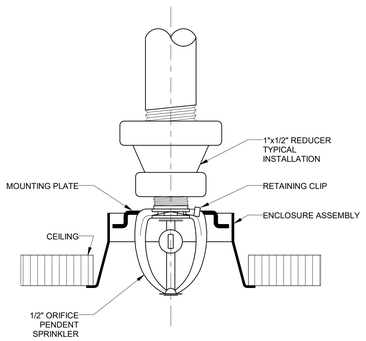
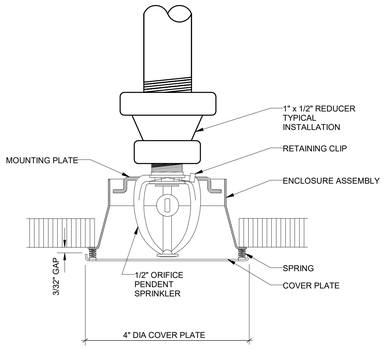


SEMI-RECESSED SPRINKLER HEAD

1 FP-500 — **INSTALLLATION**

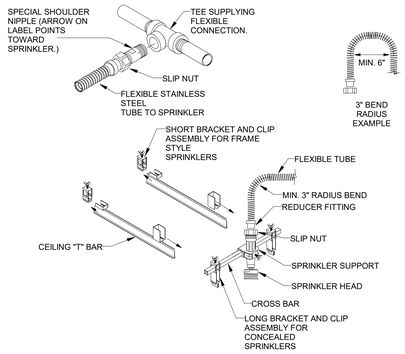
SCALE: NTS



CONCEALED SPRINKLER HEAD

2 FP-500 — **INSTALLATION DETAIL**

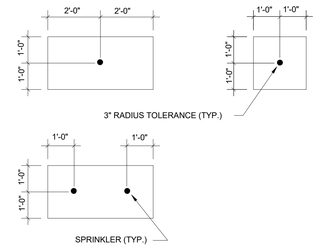
SCALE: NTS



NOTE:
3" MINIMUM IS MEASURED TO THE INSIDE SURFACE OF THE BENT HOSE.

3 FP-500 — **FLEXIBLE ARM OVER DETAIL**

SCALE: NTS



NOTE:
SPRINKLERS SHALL BE POSITIONED AS SHOWN WITH A 3" TOLERANCE. HOWEVER, SHOULD ANY PART OF THE TOLERANCE BE USED, THEN ALL THE SPRINKLERS IN THE ROW SHALL BE OFFSET BY THE SAME DISTANCE IN THE SAME DIRECTION.

4 FP-500 — **TYPICALSPRINKLER HEAD LOCATION DETAIL**

SCALE: NTS

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

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MO Architect License No: A-6661
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DISCIPLINE: PROFESSIONAL ENGINEERING
LICENSE: PE-25112 | STATE: MISSOURI
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

FIRE PROTECTION DETAILS

Project No. 22135

Sheet No. FP500

Date 03/15/2024

STATE OF MISSOURI — RICHARD W. HALTEMAN — NUMBER PE-25112 — PROFESSIONAL ENGINEER
3/19/2024

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2024

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ELECTRICAL LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

LIGHT FIXTURES

- Ab / EL - 1 — 2x4 LIGHT FIXTURE; A = FIXTURE TYPE; b = SWITCH LEG; EL = PANEL; 1 = CIRCUIT NUMBER
- EM — LIGHT FIXTURE ON EMERGENCY
- NL — LIGHT FIXTURE WITH NIGHTLIGHT
- 2x2 LIGHT FIXTURE
- 1x4 LIGHT FIXTURE
- LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- STRIP LIGHT FIXTURE
- **TRACK LIGHTING**
- 1x1 FLUORESCENT FIXTURE
- DOWNLIGHT FIXTURE
- NL — DOWNLIGHT FIXTURE ON EMERGENCY; NL = NIGHTLIGHT
- WALL WASH FIXTURE
- WALL MOUNTED FIXTURE
- GRND — GROUND MOUNTED FLOOD LIGHT
- POLE LIGHT FIXTURE
- BOLLARD
- BOLLARD ON EMERGENCY
- CEILING EXIT SIGN WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT SIGN WITH DIRECTIONAL ARROW
- SHADE INDICATES # OF FACES
- EMERGENCY LIGHT PACK WITH BATTERY (96" A.F.F.)
- REMOTE EMERGENCY LIGHT (96" A.F.F.)

FIRE ALARM

- FP 110 — COMBINATION AUDIBLE VISUAL FIRE ALARM (90" A.F.F. MINIMUM 6" BELOW CEILING); 110 = CANDELA RATING
- FH — FIRE ALRM HORN (90" A.F.F.)
- CH / FO — FIRE ALARM BELL 1' BELOW CEILING; CH = CHIME; G = GONG
- FA 110 — VISUAL FIRE ALARM (90" A.F.F. MINIMUM 6" BELOW CEILING); 110 = CANDELA RATING
- 110 FP — CEILING MOUNTED COMBINATION AUDIBLE VISUAL FIRE ALARM; 110 = CANDELA RATING
- 110 FH — CEILING MOUNTED FIRE ALARM HORN
- 110 FV — CEILING MOUNTED VISUAL FIRE ALARM; 110 = CANDELA RATING
- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR PANEL (60" A.F.F.)
- FDC — DIGITAL COMMUNICATOR
- DH — DOOR HOLDER
- F — MANUAL PULL STATION (48" A.F.F.)
- FD — DUCT DETECTOR
- FDT — DUCT DETECTOR TEST SWITCH
- FH — HEAT DETECTOR
- FS — SMOKE DETECTOR
- FSD — FIRE SUPPRESSION ALARM
- F — FIREMANS TELEPHONE OUTLET
- FS — FIRE ALARM FLOW SWITCH
- TS — FIRE ALARM TAMPER SWITCH
- MM — FIRE ALARM MONITOR MODULE
- CM — FIRE ALARM CONTROL MODULE
- PIV — POST INDICATING VALVE
- IPGSM — NETWORK / CELL DIGITAL COMMUNICATOR

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
- A - 1,3 — HOME RUN; A = PANEL A; 1,3 = CIRCUITS 1,3
- CABLE TRAY
- A — FEEDER A

SWITCHES & SENSORS

- CO — CARBON MONOXIDE DETECTOR
- V — DAYLIGHT HARVEST SENSOR
- EP — ELECTRIC/PNEUMATIC SWITCH
- LS — LIMIT SWITCH
- MGA — MEDICAL GAS ALARM
- CEILING OCCUPANCY SENSOR SINGLE DIRECTION
- CEILING OCCUPANCY SENSOR TWO DIRECTION
- CEILING OCCUPANCY SENSOR MULTI DIRECTION
- PC — PHOTOCELL
- RA — REFRIGERATOR ALARMS
- SV — SOLENOID VALVE
- $a — TOGGLE SWITCH SINGLE POLE (48" A.F.F.); a = SWITCH LEG (LOWER CASE LETTERS)
- $3 — TOGGLE SWITCH THREE WAY (48" A.F.F.)
- $4 — TOGGLE SWITCH FOUR WAY (48" A.F.F.)
- $D — DIMMER SWITCH (48" A.F.F.)
- $K — KEY OPERATED SWITCH (48" A.F.F.)
- $P — SWITCH WITH PILOT LIGHT ON WHEN SWITCH IS ON (48" A.F.F.)
- $T — TIMER SWITCH (48" A.F.F.)
- $WP — WEATHERPROOF SINGLE POLE SWITCH (48" A.F.F.)
- $OC — OCCUPANCY SENSOR WALL MOUNTED WITH OFF-AUTO OVERRIDE SWITCH (48" A.F.F.)
- $VS — VACANCY SENSOR WALL MOUNTED (48" A.F.F.)
- $m — MANUAL MOTOR STARTER
- DL — DATA LINE SWITCH (48" A.F.F.)

NURSE CALL DEVICES

- NA — NURSE CALL ANNUNCIATOR
- NA — NURSE CALL ASSIST
- NAB — NURSE CALL ASSIST/CODE BLUE
- NPS — NURSE CALL CABINET POWER SUPPLY
- N — NURSE CALL COME LIGHT CEILING MOUNTED; 1 = NUMBER OF LIGHTS; A = AUDIBLE; Z = ZONE
- N — NURSE CALL DOME LIGHT WALL MOUNTED; 1 = NUMBER OF LIGHTS; Z = ZONE
- NCE — NURSE CALL CENTRAL EQUIPMENT
- NB — NURSE CALL CODE BLUE
- N1 — NURSE CALL SINGLE PATIENT
- N1PB — NURSE CALL SINGLE PATIENT (PUSH BUTTON)
- N2 — NURSE CALL DUAL PATIENT
- N2PB — NURSE CALL DUAL PATIENT (PUSH BUTTON)
- ND — NURSE CALL DUTY STATION
- NEPB — NURSE CALL EMERGENCY (PUSH BUTTON)
- NE — NURSE CALL EMERGENCY
- NL — NURSE CALL LOCATOR
- NM — NURSE CALL MASTER
- NS/D — NURSE CALL STAFF/DUTY STATION
- NS — NURSE CALL STAFF STATION
- NR — NURSE CALL STAFF REGISTER

COMMUNICATIONS & SECURITY

- AC — ACCESS CONTROL HEAD-END
- ARA — AREA OF RESCUE ANNUNCIATOR
- AR — AREA OF RESCUE ASSISTANCE CALL STATION
- CAMERA
- CEILING MOUNTED CAMERA
- WALL MOUNTED CAMERA
- CCTV — CCTV HEAD-END
- MON — CCTV MONITOR
- SPEAKER HORN
- DC — DOOR CONTACT
- DB — DOOR BELL
- ES — ELECTRIC DOOR STRIKE
- REX — REQUEST TO EXIT MOTION DETECTOR
- HM — HANGING MICROPHONE
- M — INTERCOM MASTER
- S — INTERCOM SLAVE
- K — KEYPAD
- ML — MAGNETIC LOCK
- M — MICROPHONE OUTLET
- M — MICROPHONE OUTLET IN FLOOR
- MD — MOTION DETECTOR - WALL MOUNTED
- MD — MOTION DETECTOR - CEILING MOUNTED
- GB — GLASS BREAK DETECTOR - WALL MOUNTED
- GB — GLASS BREAK DETECTOR - CEILING MOUNTED
- PBS — PROGRAM BELL SYSTEM
- PROX — PROXIMITY READER ACCESS CONTROL
- PAS — PUBLIC ADDRESS SYSTEM
- PUSH BUTTON - ONE BUTTON
- PUSH BUTTON - MUSHROOM HEAD
- PUSH BUTTON - EMERGENCY CALL
- CR — SECURITY CARD READER
- SEC — SOUND EQUIPMENT PANEL
- S — SPEAKER - CEILING MOUNTED
- S — SPEAKER - SURFACE MOUNTED
- S — SPEAKER - WALL MOUNTED
- DATA OUTLET (18" A.F.F.); c = 6" ABOVE COUNTER BACKSPLASH; 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS
- DATA OUTLET IN FLOOR
- SURFACE RACEWAY DATA OUTLET 3' ON CENTER
- TELEPHONE OUTLET (18" A.F.F.); c = 6" ABOVE COUNTER BLACKSPLASH; 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS; W = MOUNT 48" A.F.F.
- TELEPHONE OUTLET IN FLOOR
- TELEPHONE/DATA OUTLET (18" A.F.F.); c = 6" ABOVE COUNTER BLACKSPLASH; 2 = NUMBER EQUALS TOTAL NUMBER OF DATA PORTS; 1 = NUMBER EQUALS TOTAL NUMBER OF PHONE PORTS
- TELEPHONE/DATA OUTLET IN FLOOR
- HDMI OUTLET (18" A.F.F.) UNO; c = 6" ABOVE COUNTER BLACKSPLASH; 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS; W = MOUNT 48" A.F.F.
- HDMI OUTLET IN FLOOR
- HDBaseT OUTLET (18" A.F.F.); c = 6" ABOVE COUNTER BLACKSPLASH; 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS; W = MOUNT 48" A.F.F.
- HDBaseT OUTLET IN FLOOR
- TELEVISION OUTLET (88" A.F.F.)
- V — VOLUME CONTROL (48" A.F.F.)
- WAP — WIRELESS ACCESS POINT

EQUIPMENT & DEVICES

- ANTENNA
- ANTENNA - TELEMETRY
- CEILING FAN
- 2 — ANALOG CLOCK; 2 = DUAL FACE
- 12:00 2 — DIGITAL CLOCK; 2 = DUAL FACE
- TIME ELAPSE CLOCK & CONTROLLER
- ELECTRIC METER
- G — GENERATOR
- GA — GENERATOR ANNUNCIATOR
- GROUND JACK
- EP 01 — MOTOR WITH DESIGNATION
- D — MOTORIZED DAMPER
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - FLUSH MOUNTED
- DISTRIBUTION PANELBOARD
- T — TRANSFORMER
- ATS — AUTOMATIC TRANSFER SWITCH
- MTS — MANUAL TRANSFER SWITCH
- DISCONNECT SWITCH
- COMBINATION STARTER
- MOTOR STARTER
- UTILITY POLE
- PB — PULL BOX
- HH — HAND HOLD
- TSPD — TRANSIENT SURGE PROTECTOR DEVICE
- UPS — UNINTERRUPTIBLE POWER SOURCE
- VSD — VARIABLE SPEED DRIVE
- WEATHER HEAD

OUTLETS & RECEPTACLES

- SIMPLEX RECEPTACLE (18" A.F.F.)
- SIMPLEX RECEPTACLE IN FLOOR
- SIMPLEX RECEPTACLE EMERGENCY (18" A.F.F.)
- SIMPLEX RECEPTACLE EMERGENCY IN FLOOR
- DUPLEX RECEPTACLE (18" A.F.F.); c = 6" ABOVE COUNTER BACKSPLASH; u = 110V OUTLET/USB OUTLET COMBINATION; GFI = GROUND FAULT INTERRUPTER
- TAMPER RESISTANT DUPLEX RECEPTACLE
- SURFACE RACEWAY DUPLEX OUTLET 3' ON CENTER
- DUPLEX RECEPTACLE IN FLOOR
- DUPLEX RECEPTACLE EMERGENCY (18" A.F.F.)
- DUPLEX RECEPTACLE EMERGENCY IN FLOOR
- IG — ISOLATED GROUND DUPLEX RECEPTACLE (18" A.F.F.)
- IG — ISOLATED GROUND DUPLEX RECEPTACLE IN FLOOR
- QUADRAPLEX RECEPTACLE (18" A.F.F.)
- TAMPER RESISTANT QUADRAPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE IN FLOOR
- QUADRAPLEX RECEPTACLE EMERGENCY (18" A.F.F.)
- QUADRAPLEX RECEPTACLE EMERGENCY IN FLOOR
- SPECIAL PURPOSE RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE IN FLOOR
- JUNCTION BOX
- JUNCTION BOX IN FLOOR
- PP — POWER POLE
- PS — POWER SUPPLY
- P — POWER WHIP

SWITCHBOARD METERS

- MM — MULTIMETER

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
C	CONDUIT
c	6" ABOVE COUNTER BACKSPLASH
u	USB OUTLET
GFI	GROUND FAULT INTERRUPTER
WP	WEATHERPROOF
GRS	GALVANIZED RIGID STEEL
EMT	ELECTRICAL METALLIC TUBING
AC	ALTERNATING CURRENT
MC	METAL CLAD CABLE
PVC	POLYVINAL CHLORIDE CONDUIT

GENERAL NOTES:

1. ELECTRICAL INSTALLATION PER 2014 NATIONAL ELECTRICAL CODE.
2. ALL ELECTRICAL EQUIPMENT SHALL BE UL/NRTL LISTED.

ELECTRICAL SYSTEM COMPONENTS EARTHQUAKE LOAD RESISTANCE

SEISMIC USE GROUP (IV) — **SEISMIC DESIGN CATEGORY (D)**

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY-SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
					ON CONSTRUSTION DOCUMENTS	SUBSEQUENT SUBMITTAL		
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING #'S OR SPEC SECTION	SHOP DRAWINGS	SEPARATE PERMIT & PLANS	
FIRE PROTECTION, DETECTION & ALARM:								
FIRE ALARM PANEL		X		X		X	X	9
FIRE ALARM WIRING		X		X		X	X	9
EMERGENCY OR STANDBY EQUIPMENT AND SYSTEM COMPONENTS:								
GENERATOR						X	X	9
AUTOMATIC TRANSFER SWITCH						X	X	9
OTHER EQUIPMENT AND SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF SEISMIC USE GROUP II FACILITIES, OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION.								
OTHER GENERAL EQUIPMENT AND SYSTEM COMPONENTS:								
MAIN SWITCHGEAR		X		X		X	X	9
TRANSFORMERS		X		X		X	X	9
DISTRIBUTION PANELBOARDS		X		X		X	X	9
LIGHTING FIXTURES		X		X		X	X	7,9
CONDUIT AND WIRING		X		X		X	X	9

- It is the basic intent on this Code Block to declare whether or not anchorage and sway bracing is being provided on the project. If so, to declare whether or not the details are shown on the plans or will be shown on a subsequent submission. If seismic restraint of a component is not required by code this should be stated in comments. If seismic restraint, which is not required by code, is being provided due to owner/designer requirements this should also be stated in the comments.
- Plans signed and sealed by a Missouri Professional Engineer along with a separate permit application need to be submitted to the County a minimum of two weeks prior to the planned installation to allow for plan review and distribution to Inspector. Additional time may be needed if such submissions are deficient.

EXPLANATORY NOTES:

1. Light fixtures less than 20 lbs. not part of stand-by or emergency lighting system powered with flexible cable less than 3', fixture shall be mechanically attached to ceiling grid.
2. Pendant type fixtures do not require sway bracing when it can swing at an angle of 45º from vertical without impacting other components.
3. Table 4.4, Exception 1, Ip = 1.0, weight less than 400 lbs.
4. Table 4.4, Exception 1, Ip = 1.0, weight less than 20 lbs.
5. Table 4.4, Exception 1, Ip = 1.0, weight 5 lbs/ft or less.
6. Flexible connection required between equipment and components if installation other than mounted to walls and floors.
7. Table 4.4, item 2, d, rigid steel IMC conduit ≤ 1-1/2" in diameter and EMT or aluminum conduit ≤ 2" in diameter.
8. Seismic calculations and details are attached to the set of drawings.
9. Plans signed and sealed by a Missouri Professional Engineer to be submitted separately with permit application for review by electrical contractor.
10. Typical seismic details are provided on the drawings for reference only. Plans signed and sealed by a Missouri Professional Engineer to be submitted separately with permit application for review.

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CERTIFICATE OF AUTHORITY NUMBER: E-2007000156
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire Housa No.5
11020 MUELLER ROAD

No.	Date	Revision

ELECTRICAL SYMBOLS AND ABBREVIATIONS

Project No. 22135

Sheet No. E001

Date 03/15/2024

STATE OF MISSOURI — REGISTERED PROFESSIONAL ENGINEER — JOSEPH A. BUEHLER — NUMBER E-21167 — 03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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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"

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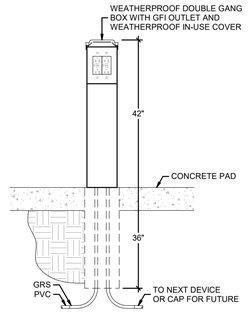


OUTDOOR RECEPTACLE DETAIL

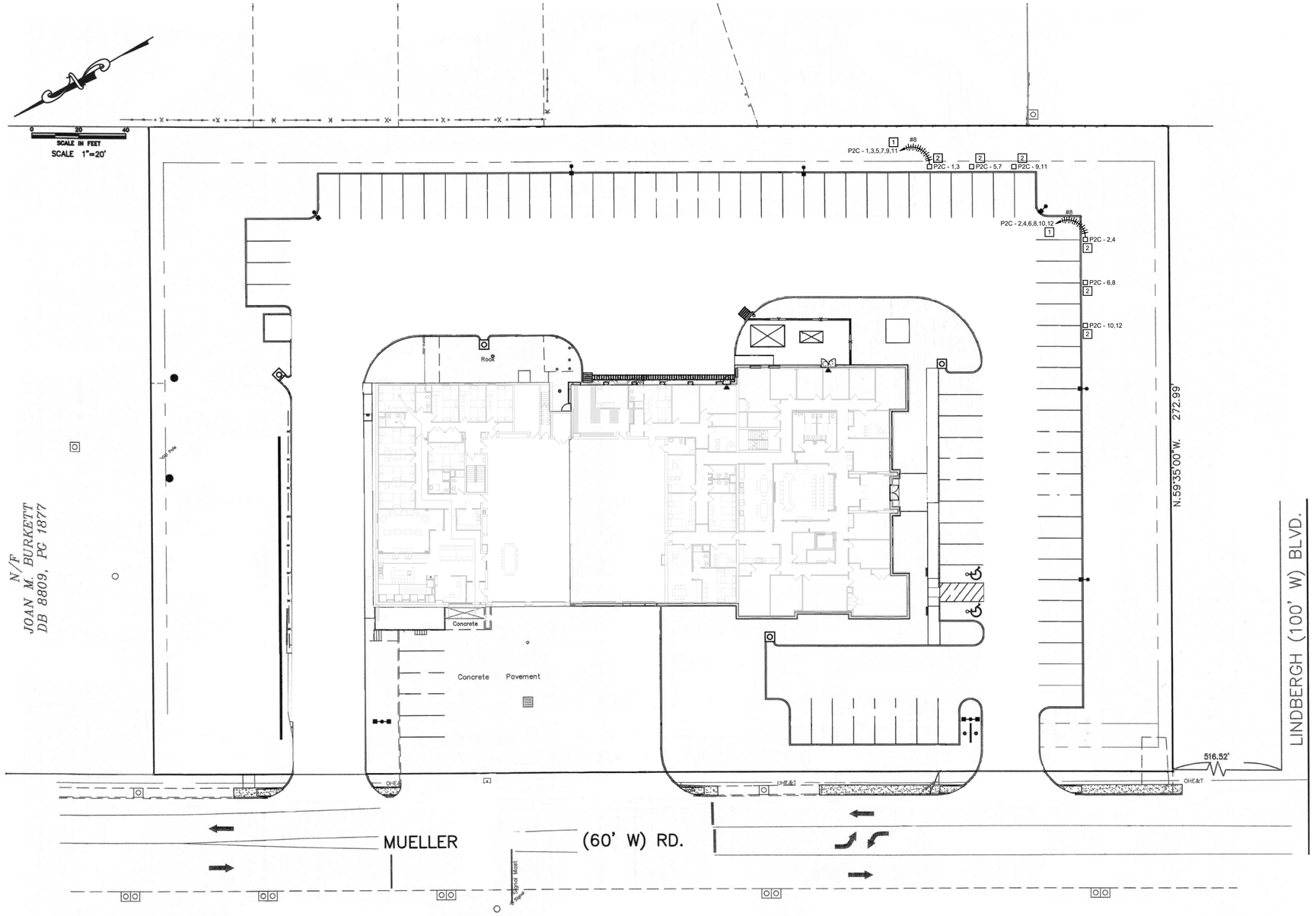
SCALE: N.T.S.

E002 KEYED NOTES

1 CUT PARKING LOT ALONG CONCRETE JOINT FOR INSTALL ATION. PATCH AND REPAIR TO MATCH EXISTING. SEE CIVIL FOR DOWELING DETAIL.

2 ELECTRIC POWER PEDESTAL PEDOC 2P42-C-B WITH (2) DUPLEX GFI WP OUTLETS AND WEATHERPROOF IN USE COVER.

2



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

Roy A. Mangan
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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Revision	Date

ELECTRICAL SITE PLAN

Project No. 22135

Sheet No. E002

Date 03/15/2024

STATE OF MISSOURI REGISTERED JOSEPH A. BUEHLER NUMBER E-21167 PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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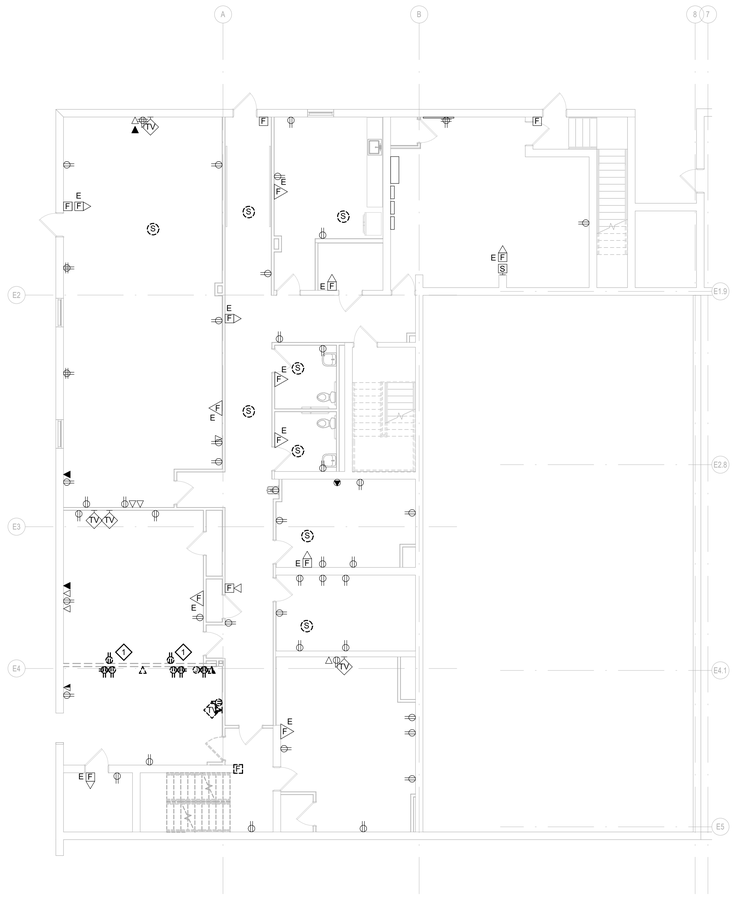
E100 GENERAL NOTES

1. REMOVE ITEMS INDICATED, INCLUDING LIGHT FIXTURES, SWITCHES, RECEPTACLES, EXPOSED CONDUIT, SURFACE AND FLUSH DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL WIRING FROM EXISTING CONDUITS. CUT BACK CONDUIT FROM FINISHED SURFACE AND ABANDON ALL CONCEALED CONDUITS. REMOVE CONDUITS ABOVE GRID TYPE CEILINGS.
2. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVING UNDISTURBED AREAS. WHEREVER DEVICE OR LIGHT FIXTURE ARE INDICATED TO BE REMOVED, THE CONTRACTOR SHALL MAKE PROVISIONS TO INSURE CONTINUITY OF CIRCUITS REMAINING IN USE. THIS SHALL INCLUDE INSTALLING JUNCTION BOXES, EXTENDING CONDUIT AND WIRE OR OTHER METHODS TO INSURE THIS CONTINUITY.
3. ALL EXISTING CONDUIT, OUTLETS AND WIRE EXPOSED DURING ALTERATIONS, THAT IS NOT SERVING EQUIPMENT TO REMAIN, SHALL BE REMOVED.
4. ALL DEMOLISHED ITEMS NOT RETAINED BY OWNER SHALL BE DISPOSED OF IN A LAW ABIDING MANNER.
5. ALL DEVICES SHOWN SHADED ARE EXISTING TO REMAIN.

E100 KEYED NOTES

1 DISCONNECT AND REMOVE EXISTING RECEPTACLE. USE EXISTING CIRCUIT FOR RECEPTACLE IN NEW WALL. SEE NEW WORK PLANS.



1 LOWER LEVEL ELECTRICAL DEMOLITION FLOOR PLAN - BASE BID
1/8" = 1'-0"

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

Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

LOWER LEVEL ELEC DEMO FLOOR PLAN

Project No. 22135

Sheet No. E100

Date 03/15/2024

STATE OF MISSOURI REGISTERED JOSEPH A BUEHLER NUMBER E-21167 PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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E101 GENERAL NOTES

1. REMOVE ITEMS INDICATED, INCLUDING LIGHT FIXTURES, SWITCHES, RECEPTACLES, EXPOSED CONDUIT, SURFACE AND FLUSH DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL WIRING FROM EXISTING CONDUITS. CUT BACK CONDUIT FROM FINISHED SURFACE AND ABANDON ALL CONCEALED CONDUITS. REMOVE CONDUITS ABOVE GRID TYPE CEILINGS.
2. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVING UNDISTURBED AREAS. WHEREVER DEVICE OR LIGHT FIXTURE ARE INDICATED TO BE REMOVED, THE CONTRACTOR SHALL MAKE PROVISIONS TO INSURE CONTINUITY OF CIRCUITS REMAINING IN USE. THIS SHALL INCLUDE INSTALLING JUNCTION BOXES, EXTENDING CONDUIT AND WIRE OR OTHER METHODS TO INSURE THIS CONTINUITY.
3. ALL EXISTING CONDUIT, OUTLETS AND WIRE EXPOSED DURING ALTERATIONS, THAT IS NOT SERVING EQUIPMENT TO REMAIN, SHALL BE REMOVED.
4. ALL DEMOLISHED ITEMS NOT RETAINED BY OWNER SHALL BE DISPOSED OF IN A LAW ABIDING MANNER.
5. ALL DEVICES SHOWN SOLID AND SHADED ARE EXISTING TO REMAIN.

E101 KEYED NOTES

1 EXISTING DOOR CONTROL PANEL AND RELAY TO BE REMOVED. CONNECT TRAFFIC SIGNAL CONTROL CABLE TO NEW PANIC BUTTONS. SEE NEW WORK.

2 DISCONNECT EXISTING STOVE/RECEPTACLE. RECEPTACLE IS CONTROLLED BY RELAY AND FIRE ALERTING SYSTEM. CONNECT NEW OUTLET TO EXISTING CIRCUITS VIA RELAYS.

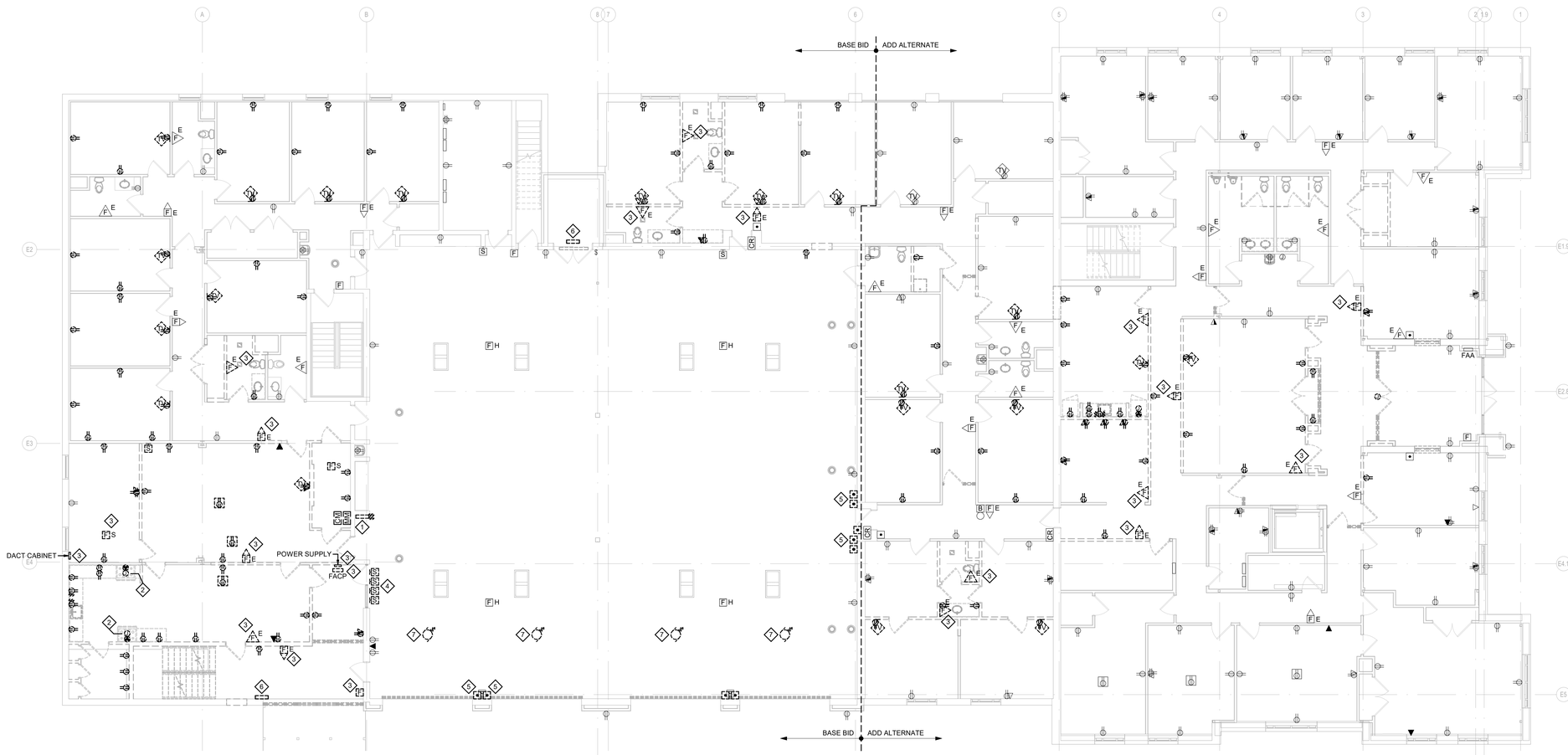
3 DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE. REINSTALL PER NEW WORK PLANS.

4 EXISTING FIRE ALERT CALL SPEAKERS TO BE REMOVED.

5 EXISTING DOOR CONTROLLERS TO BE REMOVED.

6 DISCONNECT AND REMOVE EXISTING ELECTRIC HEATER.

7 DISCONNECT OVERHEAD DOOR POWER. EXTEND TO NEW OVERHEAD CONTROLLER.



1 FIRST FLOOR ELECTRICAL DEMOLITION FLOOR PLAN
1/8" = 1'-0"

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

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Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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CERTIFICATE OF AUTHORITY NUMBER: 000159
EXPIRATION DATE: DECEMBER 31, 2024
[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

FIRST FLOOR ELEC DEMO FLOOR PLAN

Project No.
22135

Sheet No.
E101

Date
03/15/2024

STATE OF MISSOURI
JOSEPH A. BUEHLER
NUMBER E-21167
REGISTERED PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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E102 GENERAL NOTES

1. REMOVE ITEMS INDICATED, INCLUDING LIGHT FIXTURES, SWITCHES, RECEPTACLES, EXPOSED CONDUIT, SURFACE AND FLUSH DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL WIRING FROM EXISTING CONDUITS. CUT BACK CONDUIT FROM FINISHED SURFACE AND ABANDON ALL CONCEALED CONDUITS. REMOVE CONDUITS ABOVE GRID TYPE CEILINGS.
2. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVING UNDISTURBED AREAS. WHEREVER DEVICE OR LIGHT FIXTURE ARE INDICATED TO BE REMOVED, THE CONTRACTOR SHALL MAKE PROVISIONS TO INSURE CONTINUITY OF CIRCUITS REMAINING IN USE. THIS SHALL INCLUDE INSTALLING JUNCTION BOXES, EXTENDING CONDUIT AND WIRE OR OTHER METHODS TO INSURE THIS CONTINUITY.
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4. ALL DEMOLISHED ITEMS NOT RETAINED BY OWNER SHALL BE DISPOSED OF IN A LAW ABIDING MANNER.
5. ALL DEVICES SHOWN SOLID AND SHADED ARE EXISTING TO REMAIN.

E102 KEYED NOTES

1 EXISTING CU TO REMAIN.

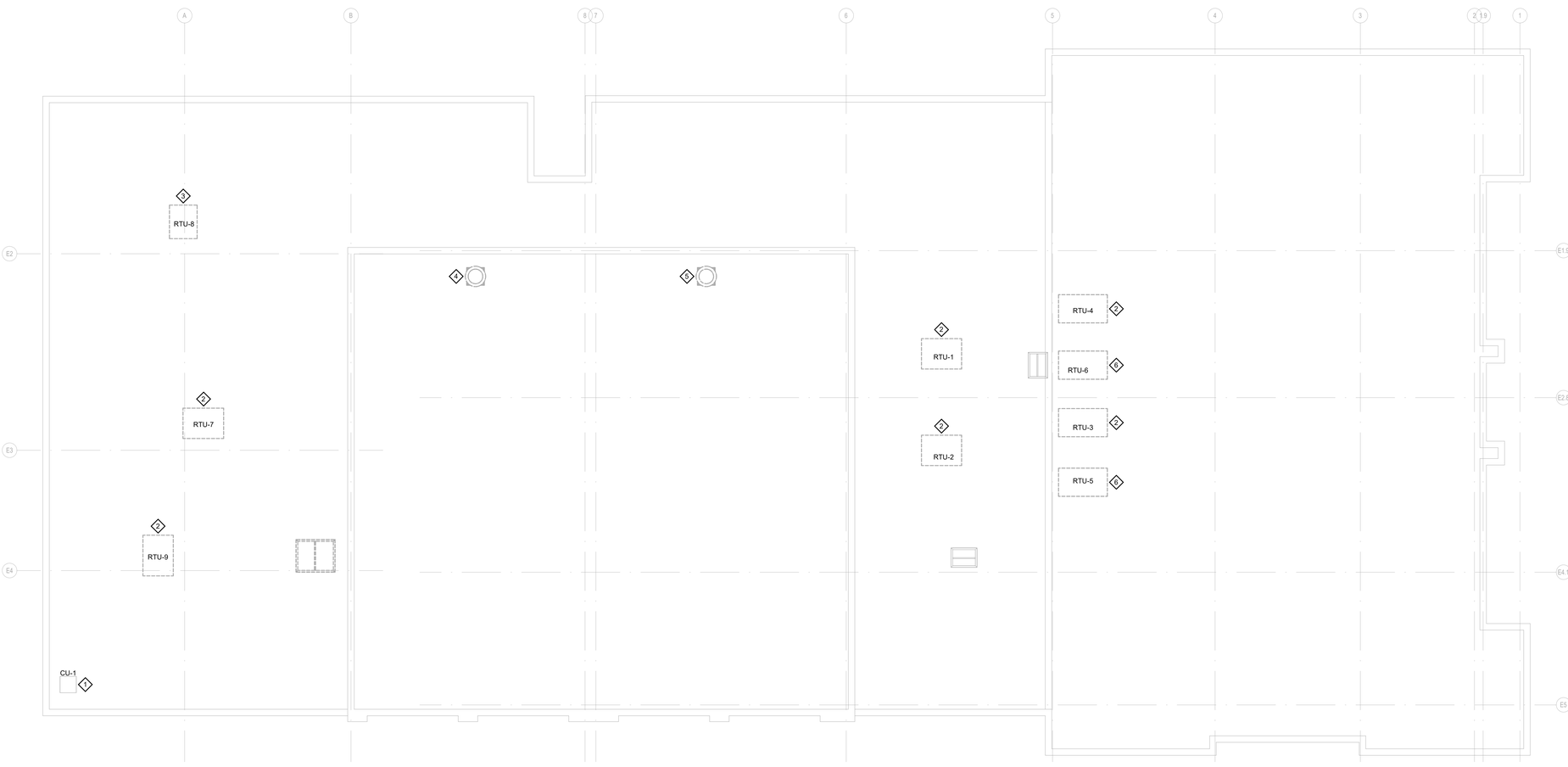
2 DISCONNECT CIRCUIT TO EXISTING ROOFTOP UNIT. EXTEND CIRCUIT AND CONNECT TO NEW UNIT. SEE NEW WORK PLANS.

3 DISCONNECT CIRCUIT TO EXISTING ROOFTOP UNIT. REMOVE CONDUCTORS TO SOURCES. REUSE CONDUIT AS POSSIBLE FOR NEW RTU.

4 DISCONNECT EXISTING EXHAUST FAN . REMOVE CONDUIT AND CONDUCTORS TO SOURCE

5 DISCONNECT EXISTING EXHAUST FAN. REMOVE CIRCUIT TO SOURCE. REUSE CONDUIT AS POSSIBLE FOR NEW EF.

6 DISCONNECT CIRCUIT TO EXISTING ROOFTOP UNIT. REMOVE CONDUIT AND CONDUCTOR TO SOURCE.



1 ROOF ELECTRICAL DEMOLITION PLAN - BASE BID
1/8" = 1'-0"

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

Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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EXPIRATION DATE: DECEMBER 31, 2024

[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Revision	Date

ROOF ELECTRICAL DEMOLITION PLAN

Project No. 22135

Sheet No. E102

Date 03/15/2024

STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER JOSEPH A. BUEHLER NUMBER E-21167
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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E103 GENERAL NOTES

1. REMOVE ITEMS INDICATED, INCLUDING LIGHT FIXTURES, SWITCHES, RECEPTACLES, EXPOSED CONDUIT, SURFACE AND FLUSH DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL WIRING FROM EXISTING CONDUITS. CUT BACK CONDUIT FROM FINISHED SURFACE AND ABANDON ALL CONCEALED CONDUITS. REMOVE CONDUITS ABOVE GRID TYPE CEILINGS.
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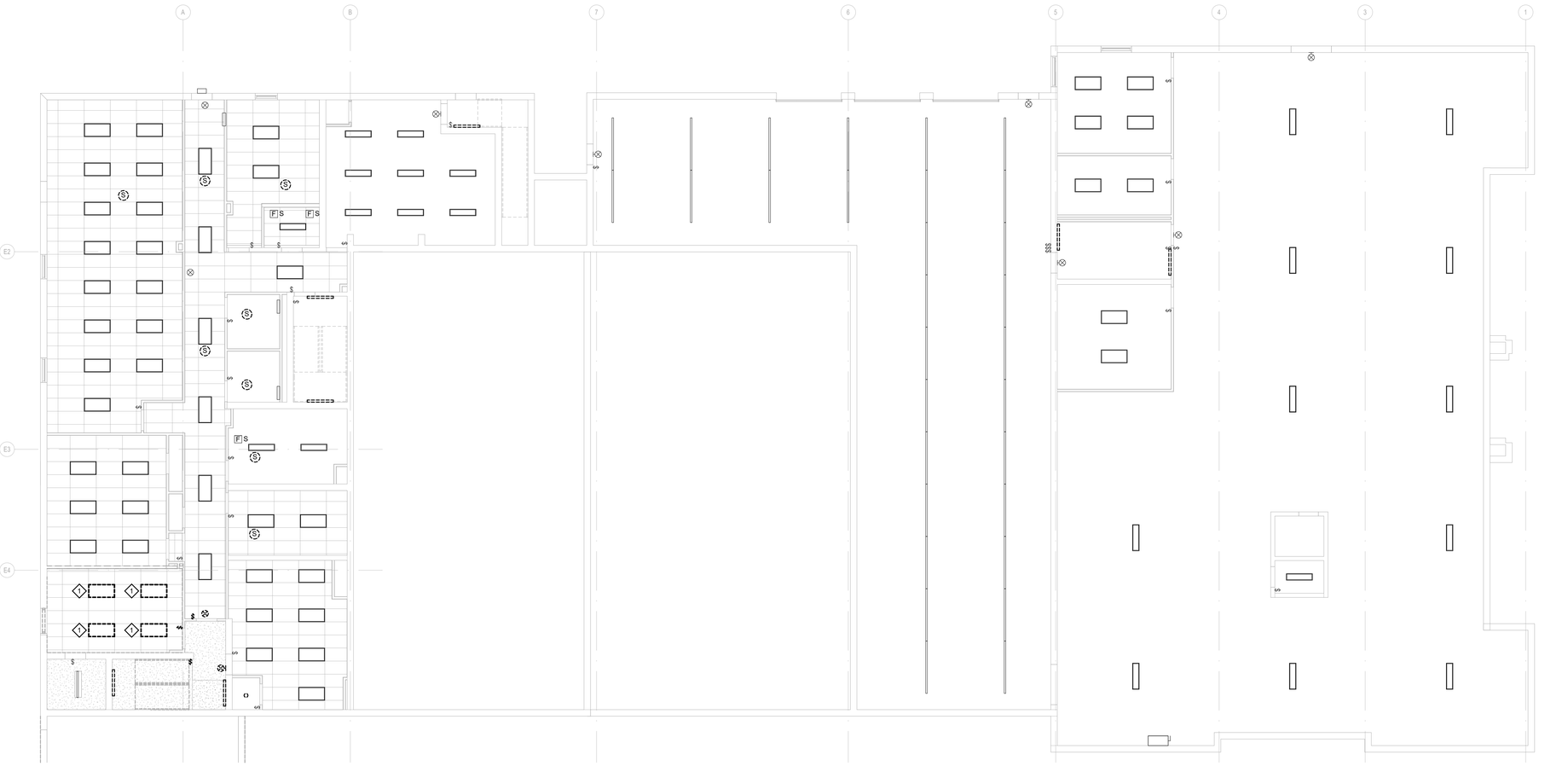
4. ALL DEMOLISHED ITEMS NOT RETAINED BY OWNER SHALL BE DISPOSED OF IN A LAW ABIDING MANNER.
5. ALL DEVICES SHOWN SOLID AND SHADED ARE EXISTING TO REMAIN.

E103 KEYED NOTES

1 DISCONNECT AND REMOVE EXISTING FIXTURE. REINSTALL PER NEW WORK PLANS.



1 LOWER LEVEL ELECTRICAL DEMOLITION CEILING PLAN - BASE BID
1/8" = 1'-0"

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

Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Revision	Date

LOWER LEVEL ELEC DEMO CEILING PLAN

Project No. 22135

Sheet No. E103

Date 03/15/2024

STATE OF MISSOURI JOSEPH A. BUEHLER NUMBER E-21167 REGISTERED PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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E104 GENERAL NOTES

1. REMOVE ITEMS INDICATED, INCLUDING LIGHT FIXTURES, SWITCHES, RECEPTACLES, EXPOSED CONDUIT, SURFACE AND FLUSH DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL WIRING FROM EXISTING CONDUITS. CUT BACK CONDUIT FROM FINISHED SURFACE AND ABANDON ALL CONCEALED CONDUITS. REMOVE CONDUITS ABOVE GRID TYPE CEILINGS.
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4. ALL DEMOLISHED ITEMS NOT RETAINED BY OWNER SHALL BE DISPOSED OF IN A LAW ABIDING MANNER.
5. ALL DEVICES SHOWN SOLID AND SHADED ARE EXISTING TO REMAIN.
6. EXISTING CIRCUITS OF REMOVED FIXTURES SHALL BE REUSED FOR NEW FIXTURES WHERE POSSIBLE. NEW CONDUCTORS SHALL BE INSTALLED FOR DIMMING AND SWITCH CONTROL.

E104 KEYED NOTES

1 EXISTING CLOSED CIRCUIT TELEVISION CAMERA SHALL BE REMOVED. REINSTALL ON NEW CEILING.

2 EXISTING SMOKE DETECTOR SHALL BE REMOVED. REINSTALL ON NEW CEILING

3 EXISTING HEAT DETECTOR SHALL BE REMOVED. REINSTALL IN NEW CEILING.

4 EXISTING SPEAKER AND ASSOCIATED WIRING SHALL BE REMOVED.

5 EXISTING WIRELESS ACCESS POINTS SHALL BE REMOVED - REINSTALL ON NEW CEILING.

6 REMOVE BUILDING MOUNTED FLAG LIGHT.

BASE BID ADD ALTERNATE

BASE BID ADD ALTERNATE

1 FIRST FLOOR ELECTRICAL DEMOLITION CEILING PLAN
1/8" = 1'-0"

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

Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

FIRST FLOOR ELEC DEMO CEILING PLAN

STATE OF MISSOURI
JOSEPH A. BUEHLER
NUMBER E-21167
REGISTERED PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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Project No.
22135

Sheet No.
E104

Date
03/15/2024

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E201 GENERAL NOTES

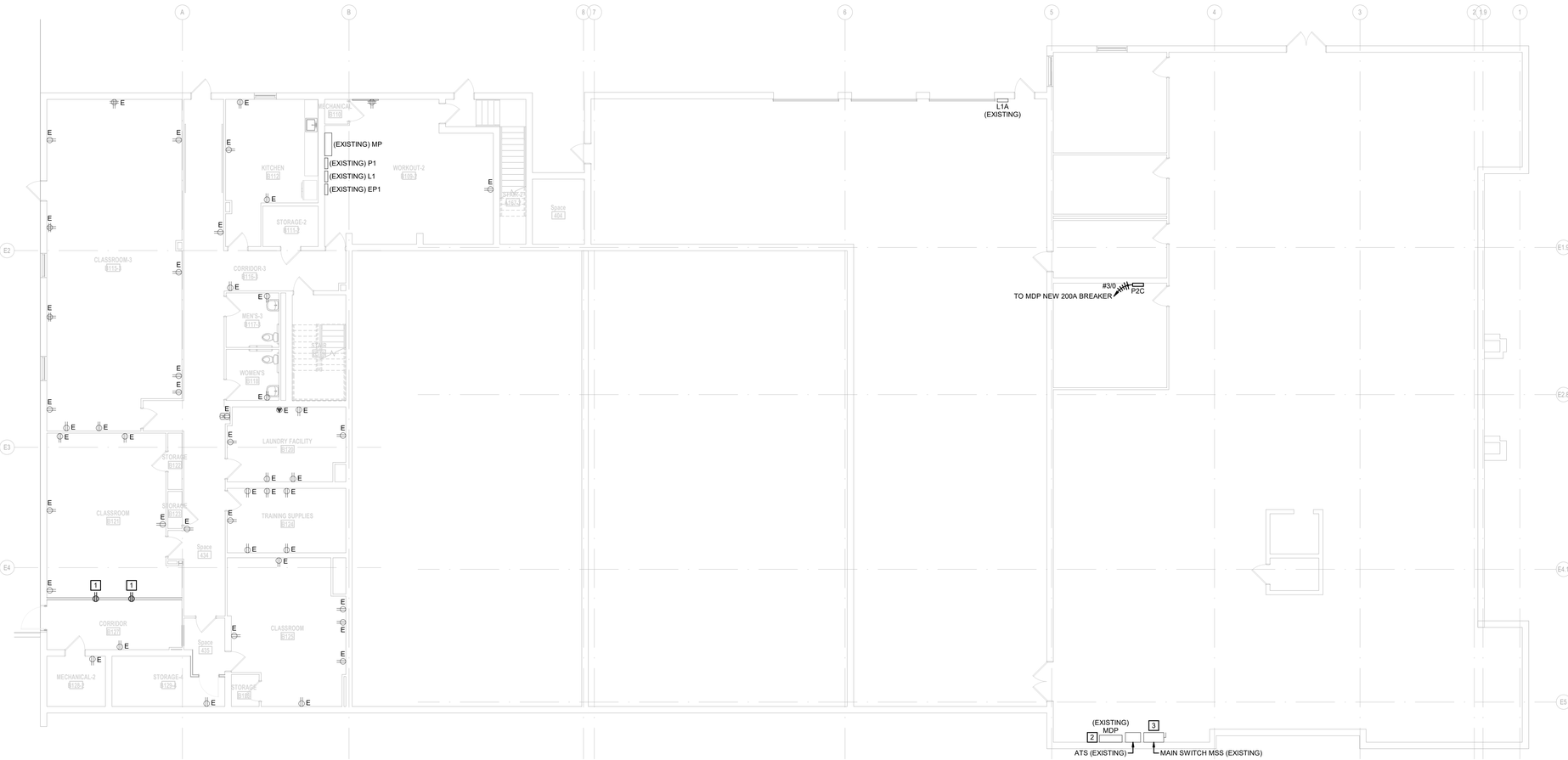
1. ALL BRANCH CIRCUIT CONDUIT AND WIRE ARE NOT SHOWN. ONLY HOMERUNS AND CIRCUIT NUMBERS ADJACENT TO DEVICES ARE SHOWN. THE REMAINING BRANCH CIRCUIT CONDUIT AND WIRE SHALL BE INSTALLED ACCORDIND TO SPECIFICATIONS.
2. ALL DEVICES IN EXISTING WALLS SHALL HAVE WALLS FISHED FOR INSTALLATION OF DEVICE WHERE POSSIBLE.
3. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
4. CONCEAL ALL LOW VOLTAGE CABLE IN NEW WALLS WHERE POSSIBLE.
5. ALL RECEPTACLES WITHIN 6' OF SINK ARE TO BE GFI TYPE.

E200 KEYED NOTES

1 CONNECT TO CIRCUIT OF REMOVED RECEPTACLES. SEE DEMOLITION PLAN.

2 INSTALL (3) NEW 200 AMP SQUARE D Q23 200H CIRCUIT BREAKER FOR NEW PANEL'S. SEE ONE-LINE.

3 REMOVE EXISTING 1200 AMP FUSES. INSTALL NEW 800 AMP FUSES.



1 LOWER LEVEL POWER PLAN - BASE BID
1/8" = 1'-0"

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

Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

LOWER LEVEL POWER PLAN

Project No. 22135

Sheet No. E200

Date 03/15/2024

STATE OF MISSOURI REGISTERED JOSEPH A BUEHLER NUMBER E-21167 PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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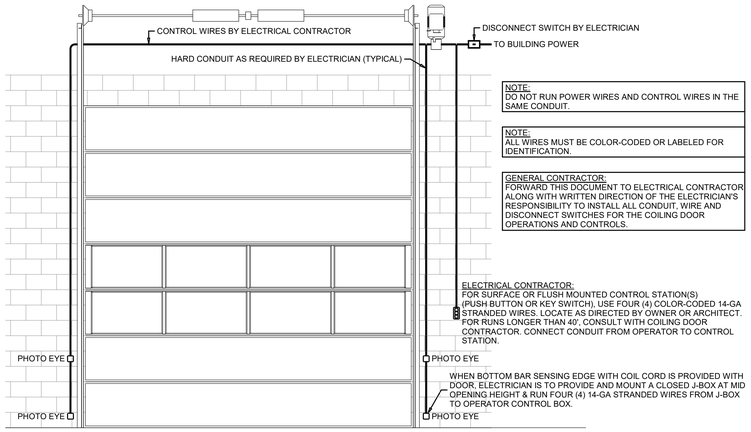


OVERHEAD DOOR CONNECTION DETAIL

SCALE: N.T.S.

E202 GENERAL NOTES

1. ALL BRANCH CIRCUIT CONDUIT AND WIRE ARE NOT SHOWN. ONLY HOMERUNS AND CIRCUIT NUMBERS ADJACENT TO DEVICES ARE SHOWN. THE REMAINING BRANCH CIRCUIT CONDUIT AND WIRE SHALL BE INSTALLED ACCORDIND TO SPECIFICATIONS.
2. ALL DEVICES IN EXISTING WALLS SHALL HAVE WALLS FISHED FOR INSTALLATION OF DEVICE WHERE POSSIBLE.
3. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
4. CONCEAL ALL LOW VOLTAGE CABLE IN NEW WALLS WHERE POSSIBLE.
5. ALL RECEPTACLES WITHIN 6' OF SINK ARE TO BE GFI TYPE.

E201 KEYED NOTES

1 CONNECT RECEPTACLES TO CIRCUIT OF REMOVED RECEPEPTACLE. SEE DEMOLITION PLANS.

2 STOVE OUTLET 50A, 250V. CONNECT TO CIRCUIT VIA FIRE ALERTING SYSTEM RELAY AND HOOD RELAY BOX.

3 EXISTING FIRE ALERTING SYSTEM.

4 DRYER OUTLET, 30 AMP, 250V.

5 CONNECT TO KITCHEN HOOD.

6 MICROWAVE OUTLET BELOW COUNTER. SEE ARCH PLANS

7 SWITCHED OUTLET FOR GARBAGE DISPOSER. INSTALL CORD AND PLUG ON GARBAGER DISPOSE.

8 L5-30 RECEPTACLE FOR EXTRACTOR.

9 REMOVE EXISTING 3P 25 AMP BREAKER FEEDING RTU-8. INSTALL NEW SQUARE D 30 AMP 3P BREAKER.

10 REMOVE EXISTING 40 AMP, 3-POLE BREAKER FEEDING RTU-3. INSTALL NEW 35 AMP, 3-POLE BREAKER (BASE BID). REMOVE EXISTING 45 AMP, 3-POLE BREAKER FEEDING RTU-5. INSTALL NEW 35 AMP, 3-POLE BREAKER (BASE BID). REMOVE EXISTING 40 AMP, 3-POLE BREAKER FEEDING RTU-6. INSTALL NEW 80 AMP, 3-POLE BREAKER (BASE BID.

11 INSTALL (10) NEW 20 AMP, SINGLE POLE BREAKERS IN EXISTING SQUARE D PANEL.

12 CONNECT CIRCUIT OF REMOVED OVERHEAD DOOR TO NEW OVERHEAD DOOR CONTROLLER.

13 DOOR OPERATOR FOR OVERHEAD DOOR PROVIDED BY DOOR SUPPLIER INSTALLED BY ELECTRICAL CONTRACTOR (+54").

14 (4) REMOTE DOOR OPERATORS FOR OVERHEAD DOORS PROVIDED BY DOOR SUPPLIER INSTALLED BY ELECTRICAL CONTRACTOR.

15 (2) MUSHROOM HEAD PUSH BUTTON TO FIRE DEPARTMENT CONNECTION OF OVERHEAD DOOR TRAFFIC SIGNAL AND EXHAUST FAN. SEE PANIC SCHEMATIC.

16 SIGNAL LIGHT SUPPLIED BY DOOR MANUFACTURER. CONNECT TO OVERHEAD DOOR OPEN CONTACT. ELECTRICAL CONTRACTOR TO PROVIDE MICROFRAME D6330 COUNTDOWN TIMER. CONNECT TIMER TO PANIC BUTTON CONTACT. MOUNT 6' A.F.F., PROGRAM TIMER TO COUNT DOWN FROM 120 SECONDS UPON PULSE INPUT. CONNECT TO 110V (PB - 5). SEE SCHEMATIC.

17 MOUNT OUTLETS IN DAIS HORIZONTAL ABOVE COUNTER.

18 CONNECT POWER TO BABY BOX.

19 POWER FOR TIME CLOCK.

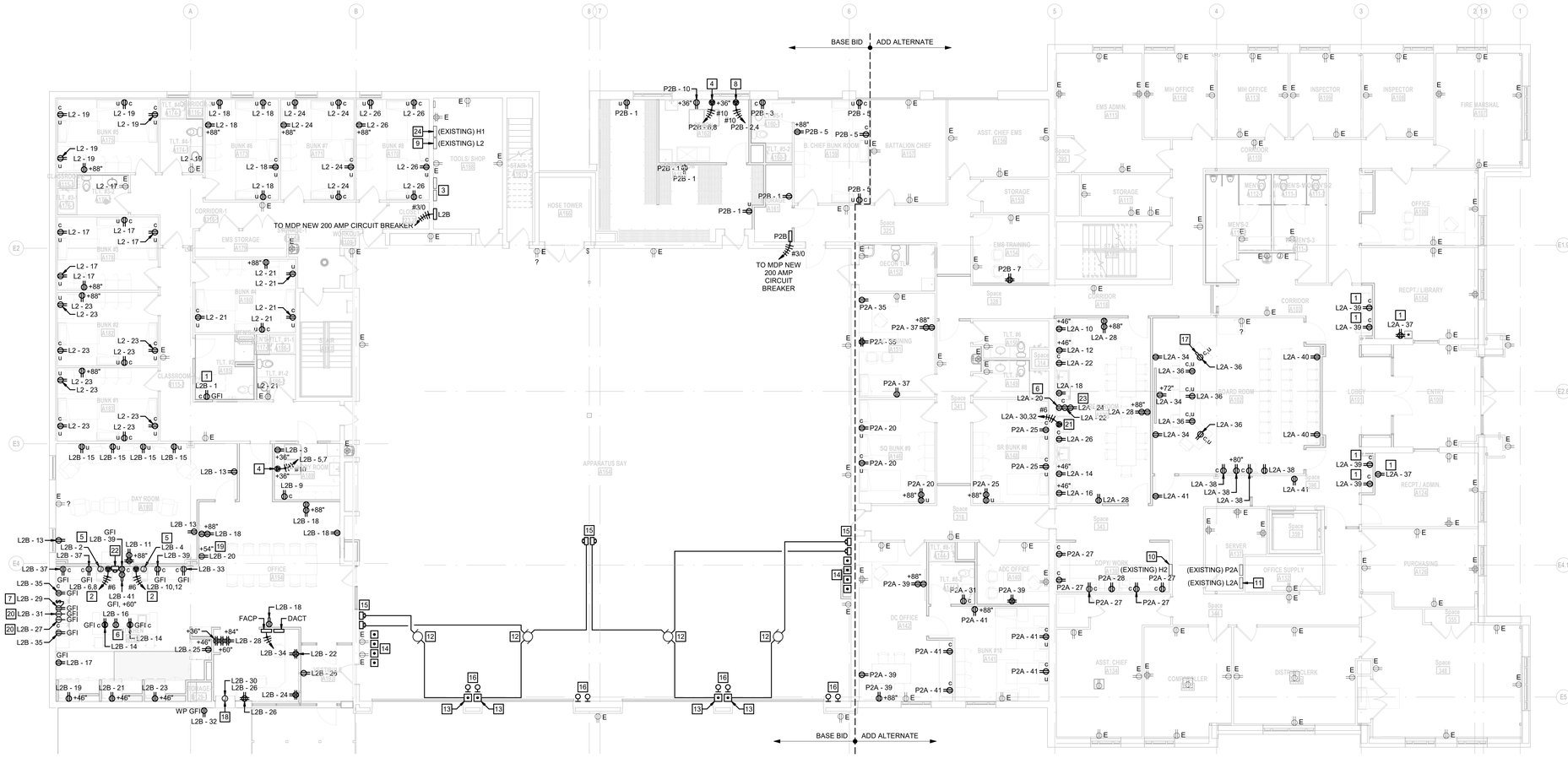
20 SIMPLEX RECEPTACLE FOR DISHWASHER.

21 STOVE OUTLET.

22 STOVE RESET PUSH BUTTON. SEE STOVE SHUTDOWN SCHEMATIC.

23 MICROWAVE OUTLET IN CABINET. SEE ARCH PLANS

24 REMOVE EXISTING 25 AMP BREAKER FEEDING RTU-8. INSTALL NEW 35 AMP, 3-POLE BREAKER.



1 FIRST FLOOR POWER PLAN

1/8" = 1'-0"

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

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MO Architect License No: A-6661
Expires: 12/31/22

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CERTIFICATE OF AUTHORITY: E-1009
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

FIRST FLOOR POWER PLAN

Project No. 22135

Sheet No. E201

Date 03/15/2024

STATE OF MISSOURI
JOSEPH A BUEHLER
NUMBER E-21167
REGISTERED PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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E204 GENERAL NOTES

1. ALL BRANCH CIRCUIT CONDUIT AND WIRE ARE NOT SHOWN. ONLY HOMERUNS AND CIRCUIT NUMBERS ADJACENT TO DEVICES ARE SHOWN. THE REMAINING BRANCH CIRCUIT CONDUIT AND WIRE SHALL BE INSTALLED ACCORDIND TO SPECIFICATIONS.

E202 KEYED NOTES

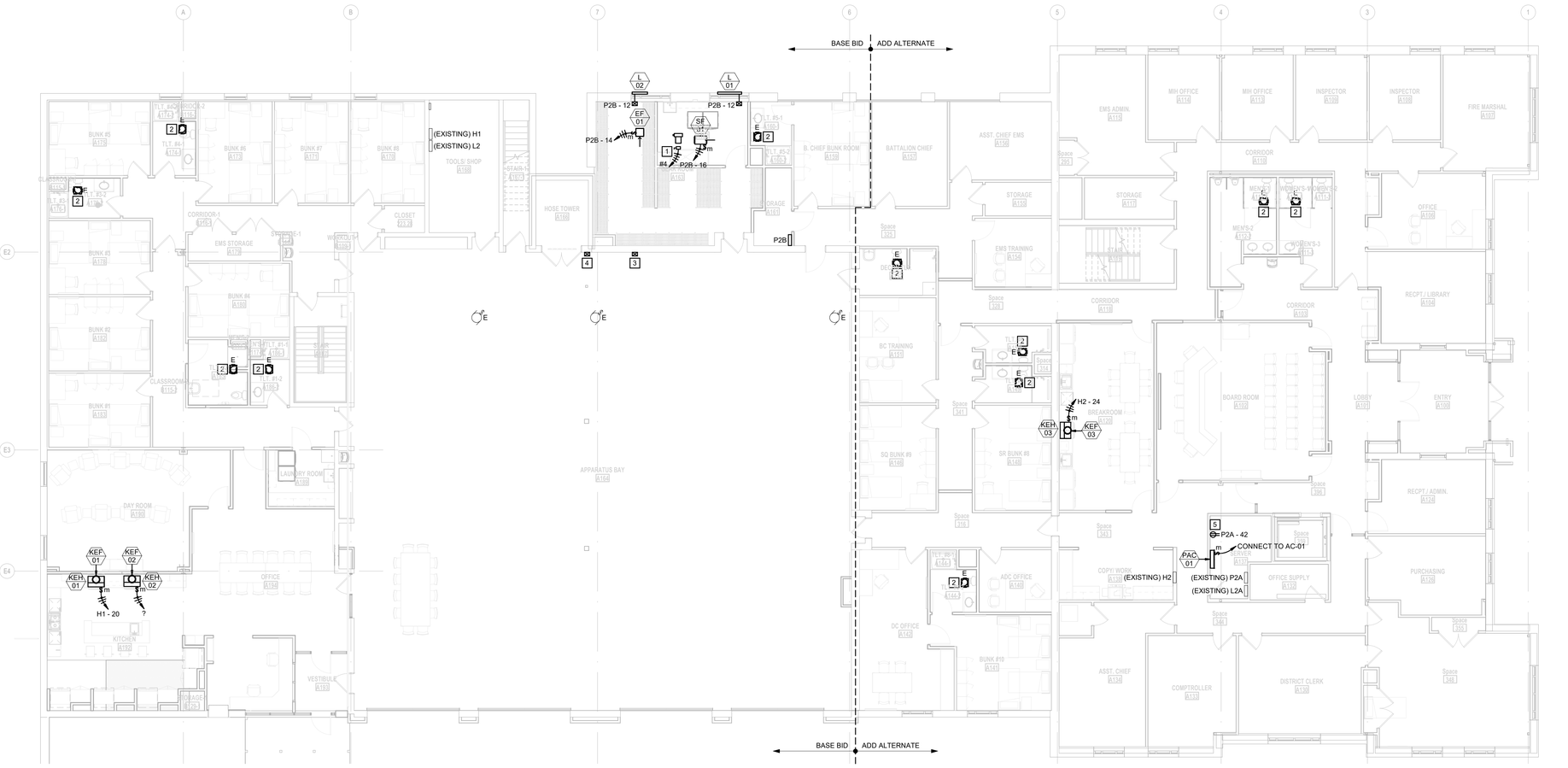
1 NEMA 1, 60 AMP FUSIBLE DISCONNECT. FUSE AT 60 AMP WITH FRS-R FUSES.

2 CONNECT EXHAUST FAN TO SWITCH AND LIGHTING CIRCUIT.

3 COMBINATION STARTER WITH HOA AND AUX CONTACT FOR EF-3. SEE SCHEMATIC.

4 COMBINATION STARTER WITH HOA AND AUX CONTACT FOR EF-4. SEE SCHEMATIC.

5 OUTLET FOR CONDENSATE PUMP. COORDINATE WITH MECHANICAL.



1 FIRST FLOOR EQUIPMENT POWER PLAN
1/8" = 1'-0"

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

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MO Architect License No: A-6661
Expires: 12/31/22

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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2024

[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

FIRST FLOOR EQUIPMENT POWER PLAN

Project No. 22135

Sheet No. E202

Date 03/15/2024

STATE OF MISSOURI
JOSEPH A. BUEHLER
NUMBER E-21167
PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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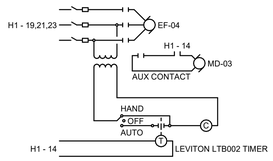
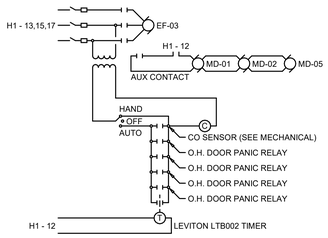
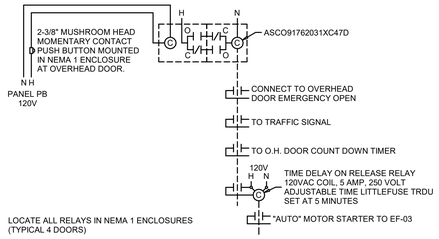


EF-04 WIRING DIAGRAM
SCALE: N.T.S.



EF-03 WIRING DIAGRAM
SCALE: N.T.S.



OVERHEAD DOOR PANIC SCHEMATIC
SCALE: N.T.S.

E204 GENERAL NOTES

1. ALL BRANCH CIRCUIT CONDUIT AND WIRE ARE NOT SHOWN. ONLY HOMERUNS AND CIRCUIT NUMBERS ADJACENT TO DEVICES ARE SHOWN. THE REMAINING BRANCH CIRCUIT CONDUIT AND WIRE SHALL BE INSTALLED ACCORDIND TO SPECIFICATIONS.

E203 KEYED NOTES

1 NEMA 1, 30 AMP FUSIBLE DISCONNECT. FUSE AT 25 AMP WITH FRS-R FUSES.

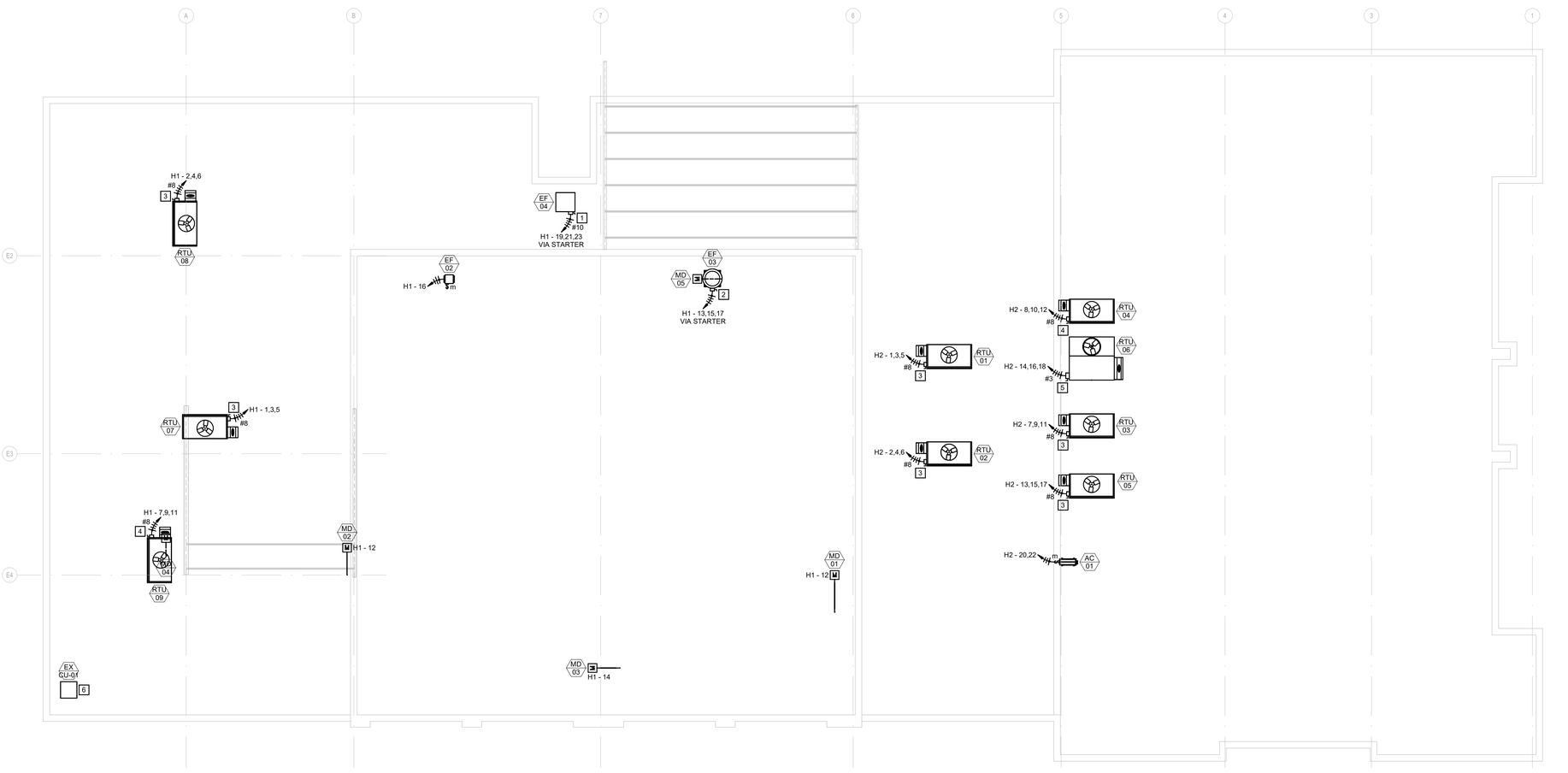
2 NEMA 3R, 30 AMP FUSIBLE DISCONNECT. FUSE AT 12 AMP WITH FRS-R FUSES.

3 NEMA 3R, 60 AMP FUSIBLE DISCONNECT. FUSE AT 35 AMP WITH FRS-R FUSES. INSTALL NEW CIRCUIT.

4 NEMA 3R, 60 AMP FUSIBLE DISCONNECT. FUSE AT 40 AMP WITH FRS-R FUSES. INSTALL NEW CIRCUIT.

5 NEMA 3R, 100 AMP FUSIBLE DISCONNECT. FUSE AT 80 AMP WITH FRS-R FUSES. INSTALL NEW CIRCUIT.

6 EXISTING CU TO REMAIN.



1 ROOF EQUIPMENT POWER PLAN - BASE BID
1/8" = 1'-0"

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

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Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Revision	Date

ROOF ELECTRICAL EQUIPMENT POWER PLAN

Project No. 22135

Sheet No. E203

Date 03/15/2024

STATE OF MISSOURI JOSEPH A BUEHLER NUMBER E-21167 REGISTERED PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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E300 GENERAL NOTES

1. ALL BRANCH CIRCUIT CONDUIT AND WIRE ARE NOT SHOWN. ONLY HOMERUNS AND CIRCUIT NUMBERS ADJACENT TO DEVICES ARE SHOWN. THE REMAINING BRANCH CIRCUIT CONDUIT AND WIRE SHALL BE INSTALLED ACCORDIND TO SPECIFICATIONS.
2. ALL DEVICES IN EXISTING WALLS SHALL HAVE WALLS FISHED FOR INSTALLATION OF DEVICE WHERE POSSIBLE.
3. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
4. CONCEAL ALL LOW VOLTAGE CABLE IN NEW WALLS WHERE POSSIBLE.
5. SEE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS.
6. ALL EXISTING LIGHT FIXTURES SHALL BE REPLACED WITH NEW FIXTURE SHOWN. CONNECT TO SAME CIRCUIT AS REMOVED FIXTURE.
7. ALL LIGHTS MARKED "NL" SHALL BE CONNECTED TO UNSWITCHED HOT CIRCUIT TO BE ON CONTINUOUSLY.

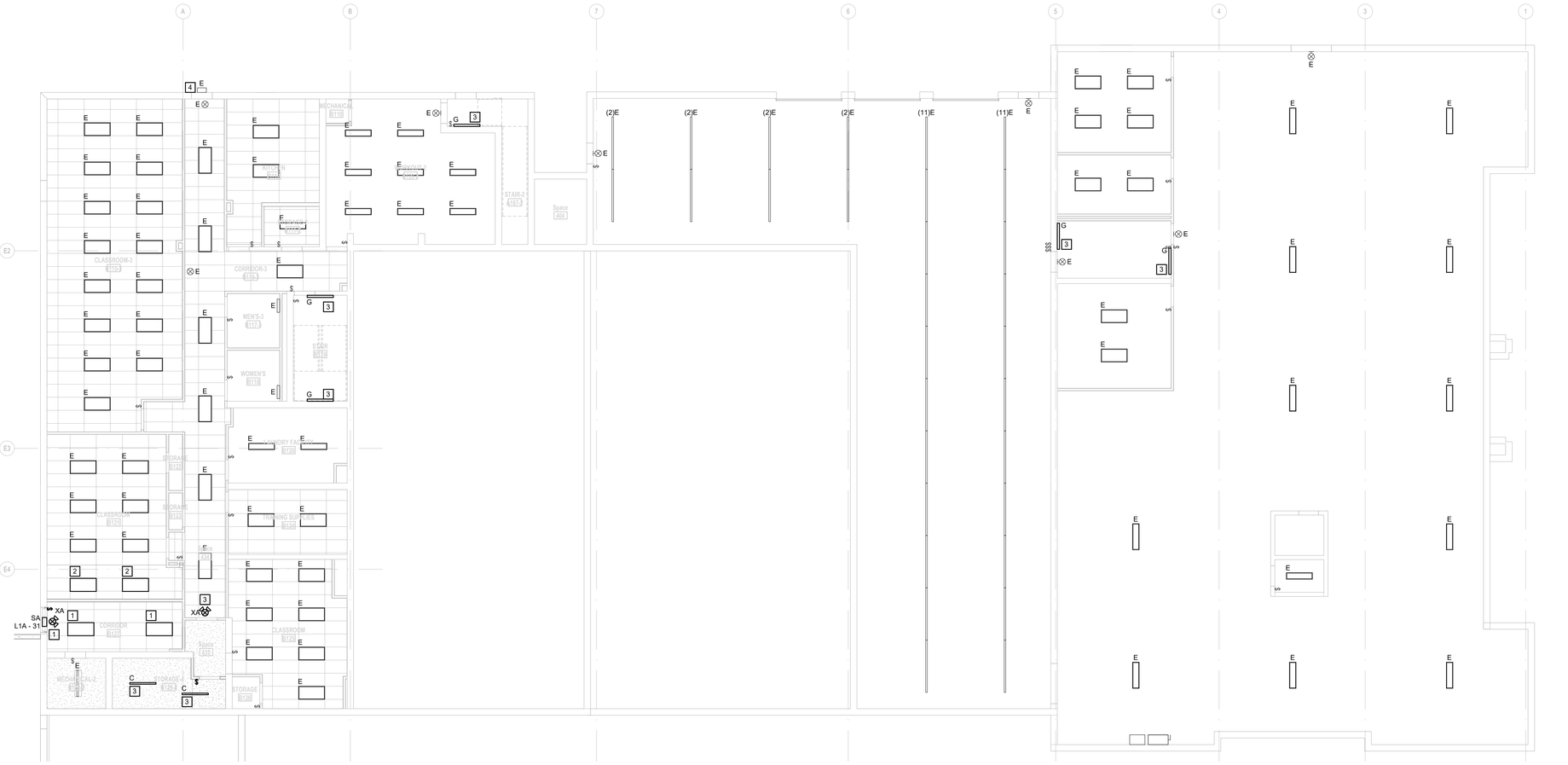
E300 KEYED NOTES

1 CONNECT EXISTING FIXTURE REMOVED IN DEMOLITION TO EXISTING CORRIDOR CIRCUIT.

2 CONNECT EXISTING FIXTURE REMOVED IN DEMOLITION TO ROOM LIGHTING CIRCUIT.

3 CONNECT TO CIRCUIT OF REMOVED FIXTURE.

4 EXISTING OUTSIDE LIGHT CONNECTED TO CIRCUIT L1A-81 VIA TIMECLOCK. EXTEND CIRCUIT TO NEW FIXTURE ON WEST SIDE OF BUILDING AT NEW EXIT.



1 LOWER LEVEL LIGHTING PLAN - BASE BID
1/8" = 1'-0"

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

Roy A. Mangan
MO Architect License No: A-6661
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EXPIRATION DATE: DECEMBER 31, 2024

[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

LOWER LEVEL LIGHTING PLAN

Project No. 22135

Sheet No. E300

Date 03/15/2024

STATE OF MISSOURI
JOSEPH A. BUEHLER
NUMBER E-21167
REGISTERED PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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E301 GENERAL NOTES

1. ALL BRANCH CIRCUIT CONDUIT AND WIRE ARE NOT SHOWN. ONLY HOMERUNS AND CIRCUIT NUMBERS ADJACENT TO DEVICES ARE SHOWN. THE REMAINING BRANCH CIRCUIT CONDUIT AND WIRE SHALL BE INSTALLED ACCORDIND TO SPECIFICATIONS.
2. ALL DEVICES IN EXISTING WALLS SHALL HAVE WALLS FISHED FOR INSTALLATION OF DEVICE WHERE POSSIBLE.
3. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
4. CONCEAL ALL LOW VOLTAGE CABLE IN NEW WALLS WHERE POSSIBLE.
5. SEE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS.
6. NEW FIXTURES SHALL BE CONNECTED TO CIRCUIT OF REMOVED FIXTURE. NEW CONDUCTORS SHALL BE INSTALLED FOR DIMMING FIXTURES, LIGHTING CONTROL AND SWITCHES.

E301 KEYED NOTES

1 FIXTURE CONNECTED AS UNSWITCHED NIGHT LIGHT FIXTURE.

2 CONNECT ROW OF LIGHT FIXTURES TO OPERATE WITH PLECTRON ALARM. SEE SCHEMATIC.

3 EMERSON CF805SWW WHITE CEILING FAN. FAN IS NOT CONTROLLED FROM OCCUPANCY SENSOR.

4 SWITCH FOR CONTROL OF BAY LIGHTING. SEE SCHEMATIC.

5 SEE BUNK ROOM CONTROL SCHEMATIC.

6 EMERSON SW46 4-SPEED FAN CONTROL.

7 FIXTURE CONNECTED AS UNSWITCHED NIGHT LIGHT FIXTURE. FIXTURE SHALL DIM 50% BETWEEN THE HOURS OF 10pm AND 6am. SEE SCHEMATIC.

8 FIXTURE RUN HORZONTAL AND VERTICAL. SEE ARCHITECTURAL ELEVATION.

9 2 BUTTON DIGITAL LIGHTING CONTROL. SEE SCHEMATIC.

10 5 BUTTON 4 SCENE DIGITAL LIGHTING CONTROL. SEE SCHEMATIC.

11 MOUNT FIXTURE 5' FROM FLAG POLE.

12 INSTALL NEW FIXTURE IN EXISTING DRYWALL CEILING. CONNECT TO SAME CIRCUIT AS REMOVED FIXTURE.

BASE BID ADD ALTERNATE

BASE BID ADD ALTERNATE

1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

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

Roy A. Manoan
MO Architect License No: A-6661
Expires: 12/31/22

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

FIRST FLOOR LIGHTING PLAN

Project No. 22135

Sheet No. E301

Date 03/15/2024

STATE OF MISSOURI JOSEPH A BUEHLER NUMBER E-21167 REGISTERED PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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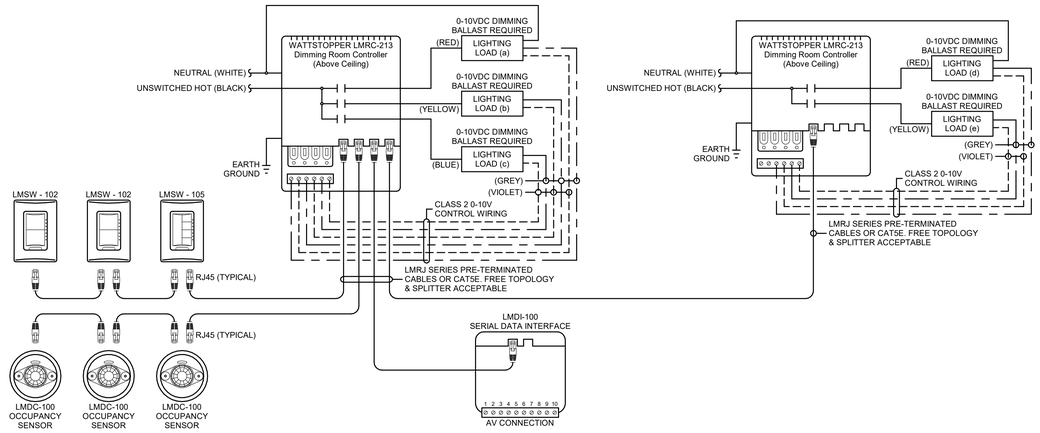
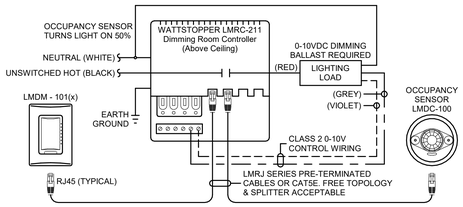


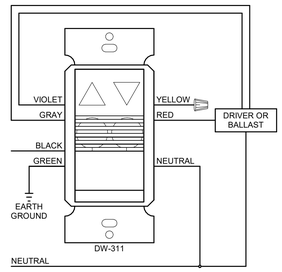
BOARD ROOM LIGHTING CONTROL WIRING SCHEMATIC

SCALE: N.T.S.



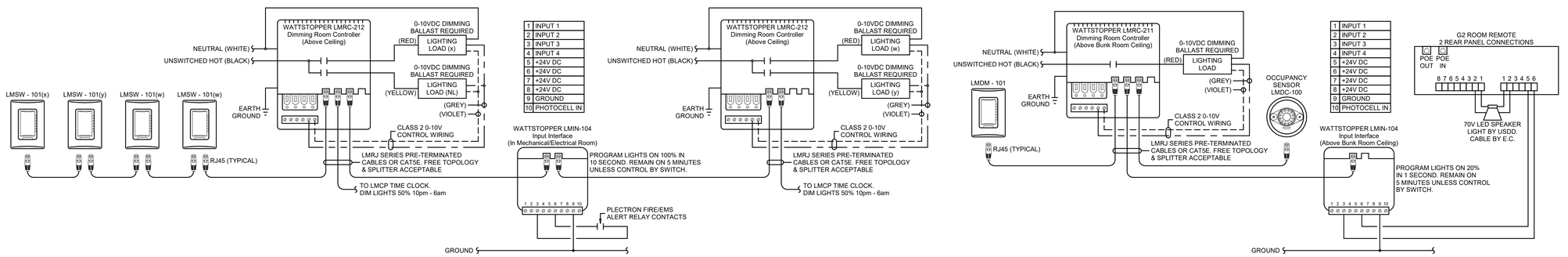
TYPICAL OCCUPANCY SENSOR SCHEMATIC

SCALE: N.T.S.



TYPICAL VACANCY/OCCUPANCY SENSOR WITH DIMMER

SCALE: N.T.S.

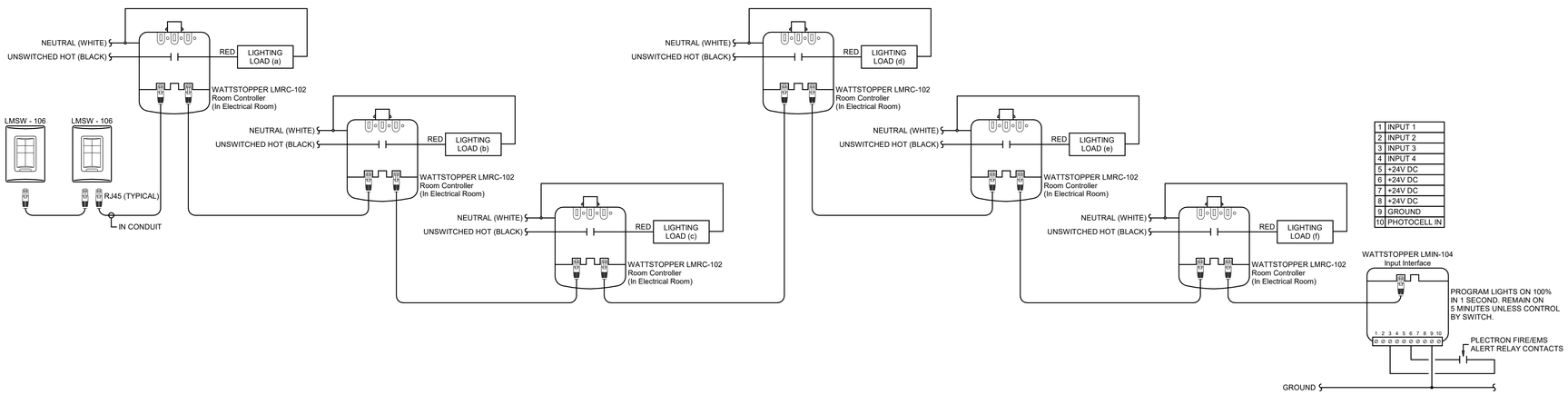


TYPICAL HOUSE CORRIDOR LIGHTING CONTROL WIRING DIAGRAM

SCALE: N.T.S.

TYPICAL BUNK ROOM LIGHTING CONTROL WIRING DIAGRAM

SCALE: N.T.S.



APPARATUS BAY LIGHTING CONTROL WIRING DIAGRAM

SCALE: N.T.S.

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MO Architect License No: A-6661
Expires: 12/31/22

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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

LIGHTING DETAILS & SCHEMATICS

Project No. 22135

Sheet No. E302

Date 03/15/2024

STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER JOSEPH A. BUEHLER NUMBER E-21167
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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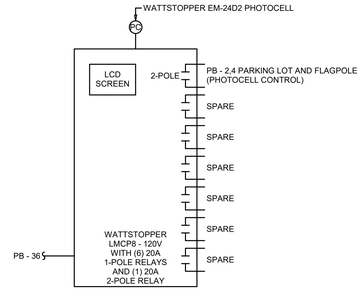
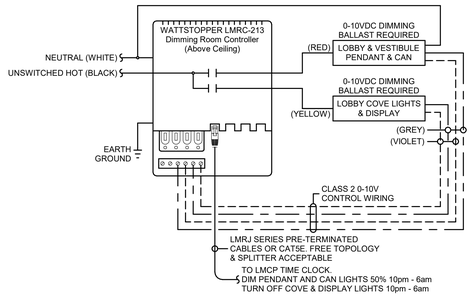


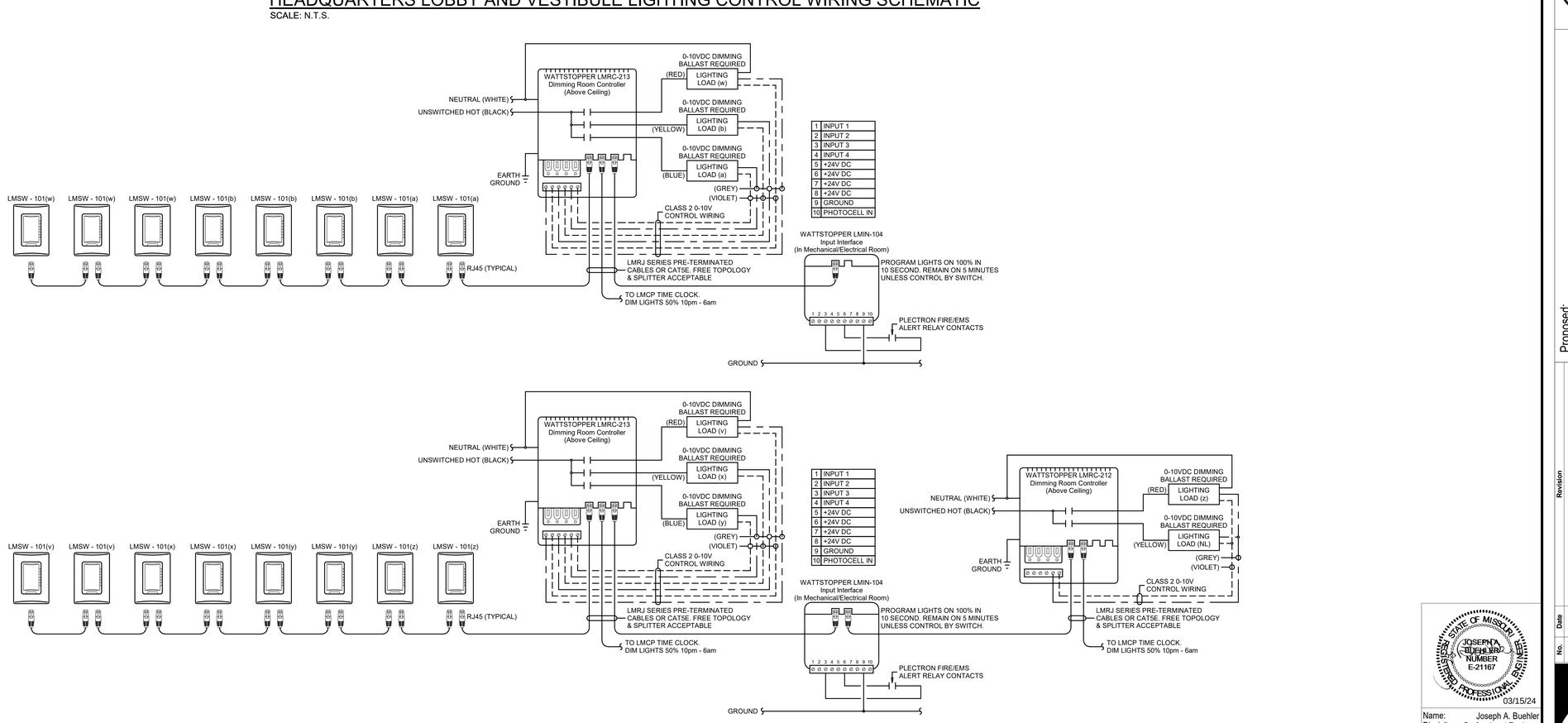
OUTSIDE LIGHTING CONTROL SCHEMATIC AND TIME CLOCK

SCALE: N.T.S.



HEADQUARTERS LOBBY AND VESTIBULE LIGHTING CONTROL WIRING SCHEMATIC

SCALE: N.T.S.



HEADQUARTERS CORRIDOR LIGHTING CONTROL WIRING DIAGRAM

SCALE: 12" = 1'-0"

Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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CERTIFICATE OF AUTHORITY NUMBER: 2007018758
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

LIGHTING DETAILS & SCHEMATICS

Project No. 22135

Sheet No. E303

Date 03/15/2024

STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER JOSEPH A. BUEHLER NUMBER E-21167
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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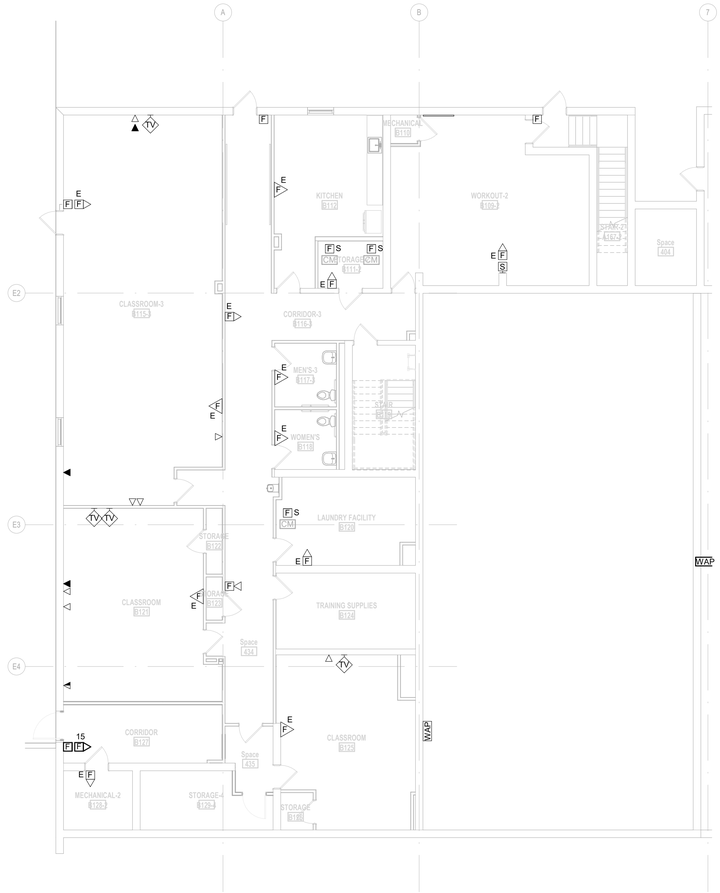
E400 GENERAL NOTES

1. ALL DEVICES IN EXISTING WALLS SHALL HAVE WALLS FISHED FOR INSTALLATION OF DEVICE WHERE POSSIBLE.
2. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
3. CONCEAL ALL LOW VOLTAGE CABLE IN NEW WALLS WHERE POSSIBLE.



1 LOWER LEVEL SYSTEMS PLAN - BASE BID
1/8" = 1'-0"

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

Roy A. Mangan
MO Architect License No: A-6661
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DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY NUMBER: 000169
EXPIRATION DATE: DECEMBER 31, 2024

[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

LOWER LEVEL SYSTEMS PLAN

Project No.
22135

Sheet No.
E400

Date
03/15/2024

STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. BUEHLER NUMBER E-21167
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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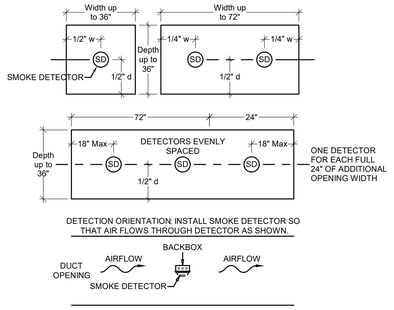
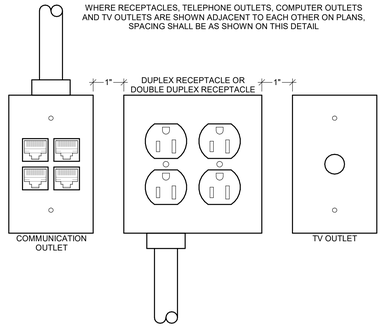


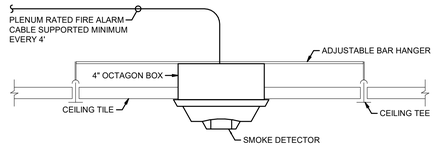
DUCT MOUNTED SMOKE DETECTOR DETAIL

SCALE: N.T.S.



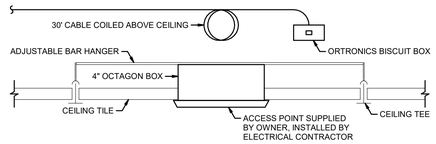
MULTIPLE OUTLET INSTALLION

SCALE: N.T.S.



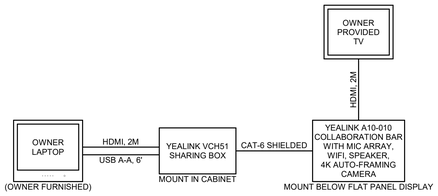
TYPICAL SMOKE DETECTOR INSTALLATION DETAIL

SCALE: N.T.S.



TYPICAL WIRELESS ACCESS POINT (WAP) INSTALLATION DETAIL

SCALE: N.T.S.



DAY ROOM SCHEMATIC

SCALE: N.T.S.

E401 GENERAL NOTES

1. ALL DEVICES IN EXISTING WALLS SHALL HAVE WALLS FISHED FOR INSTALLATION OF DEVICE WHERE POSSIBLE.
2. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
3. CONCEAL ALL LOW VOLTAGE CABLE IN NEW WALLS WHERE POSSIBLE.

E401 KEYED NOTES

1 INSTALL HDMI OUTLET +18". INSTALL HDMI OUTLET, DATA OUTLET, DUPLEX OUTLET AND COAX TV OUTLET IN RECESSED BOX SIMILIAR TO P&S TV2MW BOX. INSTALL HDMI CABLE BETWEEN HDMI OUTLETS.

2 CONNECT DOOR OPEN AND OBJECT PRESENT CONTACT TO DIGITAL ALARM TRANSPONDER TO SIGNAL BABY BOX ALARM.

3 INSTALL 6x6x3.5 INCH J-BOX WITH 1-1/2" CONDUIT TO BASEMENT. INSTALL SPLIT FACE COVER WITH 1-1/2" GROMETTED OPENING.

4 SINGLE GANG J-BOX IN HORIZONTAL WITH CONDUIT TO 6x6x3.5 INCH J-BOX MICROPHONE OUTLET BY OWNER VENDOR.

5 CONNECT TO NEW FACP LOCATION.

6 DATA OUTLET FOR TIME CLOCK.

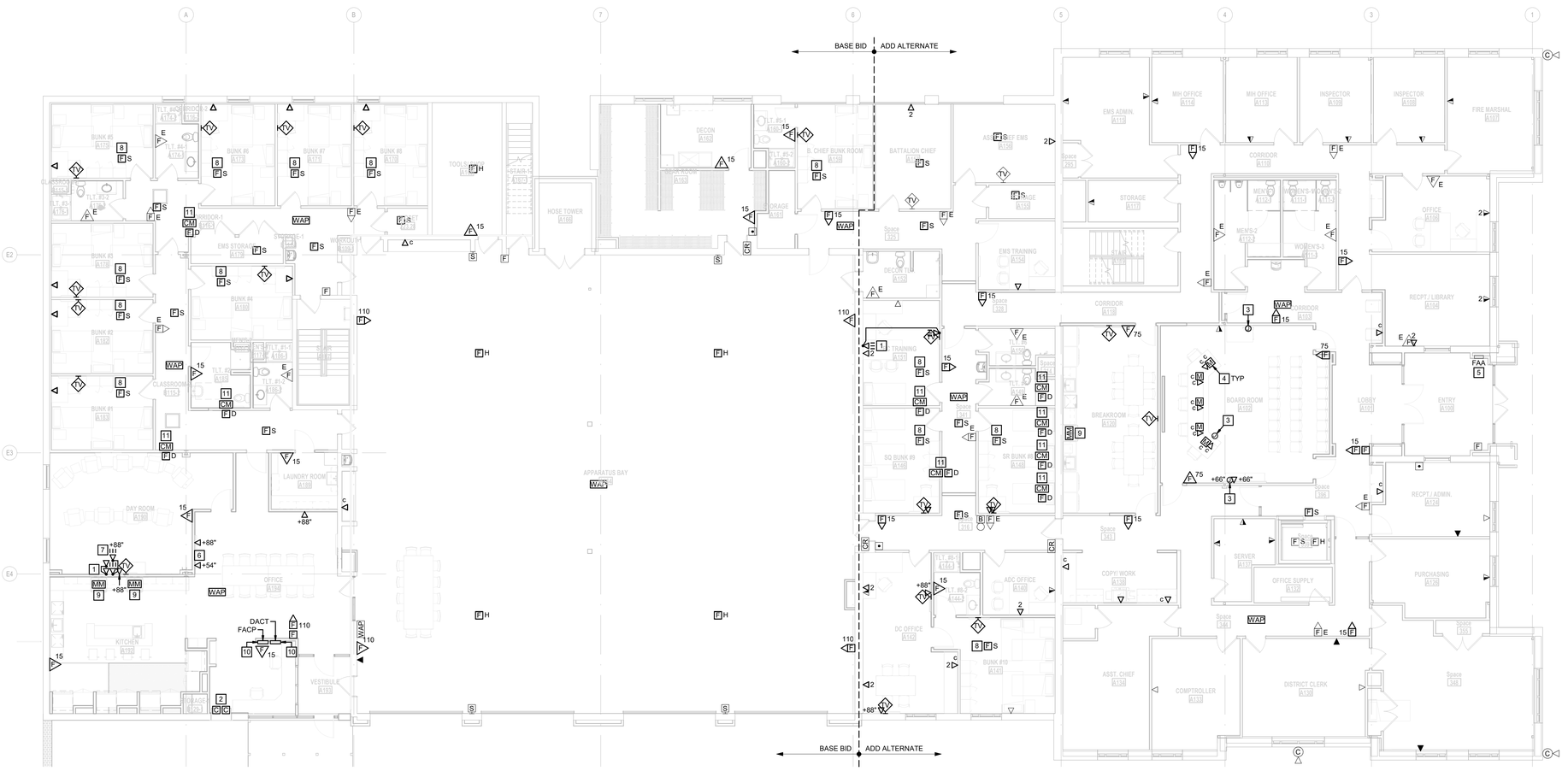
7 SEE DAYROOM SCHEMATIC FOR ADDITIONAL REQUIREMENTS.

8 PROVIDE SMOKE DETECTOR WITH SOUNDER BASE.

9 PROVIDE MONITOR MODULE TO CONNECT KITCHEN HOOD TO FACP.

10 NEW LOCATION OF FIRE ALARM CONTROL PANEL, POWER SUPPLY AND DIGITAL COMMUNICATOR. EXTEND EXISTING DEVICE CIRCUITS TO NEW LOCATION.

11 DISCONNECT RTU CONTROL MODULE AND RETURN AIR DUCT DETECTOR. REINSTALL ON NEW ROOF TOP UNITS.



1 FIRST FLOOR SYSTEMS PLAN

1/8" = 1'-0"

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

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MO Architect License No: A-6661
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Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Revision	Date

FIRST FLOOR SYSTEMS PLAN

Project No. 22135

Sheet No. E401

Date 03/15/2024

STATE OF MISSOURI REGISTERED JOSEPH A. BUEHLER NUMBER E-21167 PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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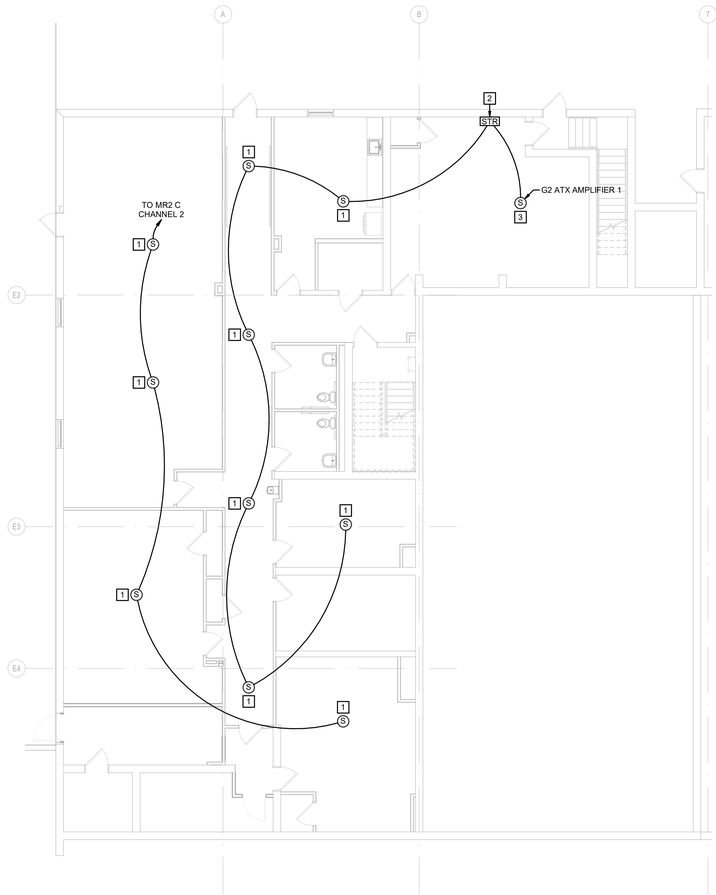
E402 KEYED NOTES

1 INSTALL BOGAN RE84+TB8 BACK BOX IN CEIILING TILE. INSTALL 18-4c PLENUM RATED CABLE BETWEEN SPEAKERS WITH HOME RUNS TO HEAD-END EQUIPMENT. CABLE SHALL BE IN CONDUIT WHERE EXPOSED.

2 INSTALL SINGLE GANG BOX ON WALL +88" A.F.F.. INSTALL 18-4c PLENUM RATED CABLE TO SPEAKER. CABLE SHALL BE IN CONDUIT WHERE EXPOSED.

3 INSTALL BOX FOR CONNECTION TO SURFACE SPEAKER (BY USDD) COIL CABLE FOR CONNECTION TO SPEAKER. INSTALL 18-4c PLENUM CABLE TO HEAD-END. CABLE SHALL BE IN CONDUIT WHERE EXPOSED.



1 LOWER LEVEL COMMUNICATIONS PLAN - BASE BID
1/8" = 1'-0"

SCALE: 1/8" = 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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[Consultants]

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

LOWER LEVEL COMMUNICATIONS PLAN

Project No.
22135

Sheet No.
E402

Date
03/15/2024

STATE OF MISSOURI REGISTERED JOSEPH A. BUEHLER NUMBER E-21167 PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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E403 KEYED NOTES

1 INSTALL BOGAN RE84+TB8 BACK BOX IN CEILING TILE. INSTALL 18-4c PLENUM RATED CABLE BETWEEN SPEAKERS WITH HOME RUNS TO HEAD-END EQUIPMENT. CABLE SHALL BE IN CONDUIT WHERE EXPOSED.

2 INSTALL SINGLE GANG BOX 108" A.F.F. IN APPARATUS BAY 6" ABOVE DOOR JAMB IN HOUSE. INSTALL PLENUM RATED CAT-6 CABLE TO PoE. INSTALL CABLE IN CONDUIT WHERE EXPOSED.

3 INSTALL 4 GANG BOX, RACO943-2.5"D WITH MUD RING 52" A.F.F.. INSTALL 18-4c CABLE TO SPEAKER. SEE LIGHTING CONTROL DIAGRAM FOR CONNECTION TO LIGHTS.

4 OMNI ALERT SPEAKER STROBE. INSTALL 3/4" EMT WITH 18-4c CABLE TO MR2/ATX. SPEAKER BY HONEYWELL/USDD.

5 INSTALL SINGLE GANG BOX +48" A.F.F.. INSTALL 3/4"c TO ACCESSABLE CEILING. INSTALL 18-4c PLENUM RATED CABLE TO ATX. BOX FOR USDD PROVIDED DOOR BELL.

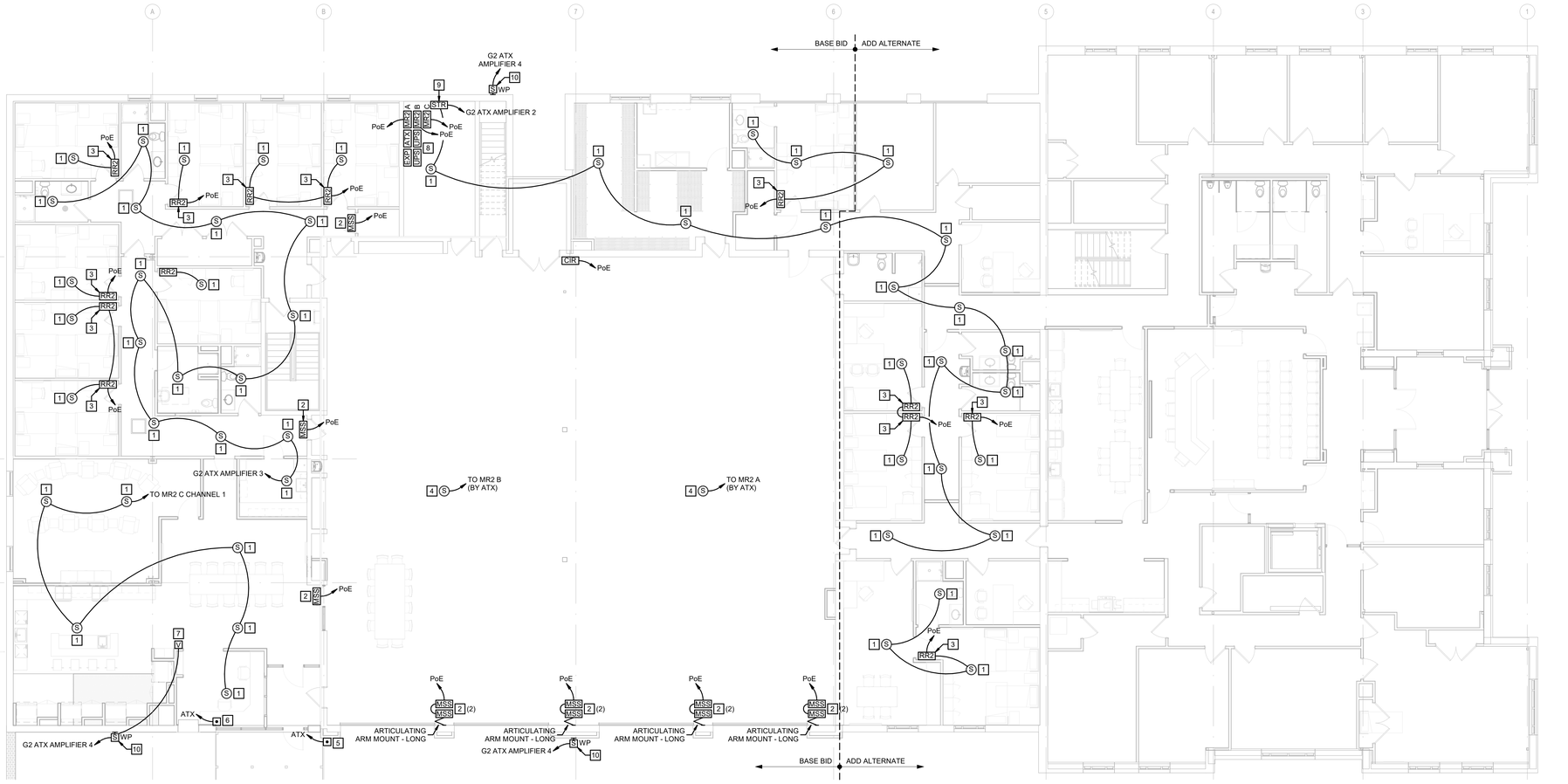
6 INSTALL SINGLE GANG BOX +48" A.F.F.. INSTALL 3/4"c TO ACCESSABLE CEILING. INSTALL 18-4c PLENUM RATED CABLE TO ATX. BOX FOR USDD PROVIDED EMERGENCY ALERT PUSH BUTTON.

7 ATLAS AT10 VOLUME CONTROL. INSTALL 18-4c TO SPEAKER IN 3/4"c.

8 UPS, ATX AND MR2 PROVIDED AND INSTALLED BY USDD.

9 INSTALL SINGLE GANG BOX +88" A.F.F.. FOR STROBE LIGHT. INSTALL 18-4c BETWEEN DEVICES.

10 INSTALL SINGLE GANG CAST BOX FOR EXTERIOR SPEAKER +88" A.F.F..



1 FIRST FLOOR COMMUNICATIONS PLAN
1/8" = 1'-0"

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

Roy A. Mangan
MO Architect License No: A-6661
Expires: 12/31/22

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Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Revision	Date

FIRST FLOOR COMMUNICATIONS PLAN

Project No. 22135

Sheet No. E403

Date 03/15/2024

STATE OF MISSOURI
JOSEPH A. BUEHLER
NUMBER E-21167
REGISTERED PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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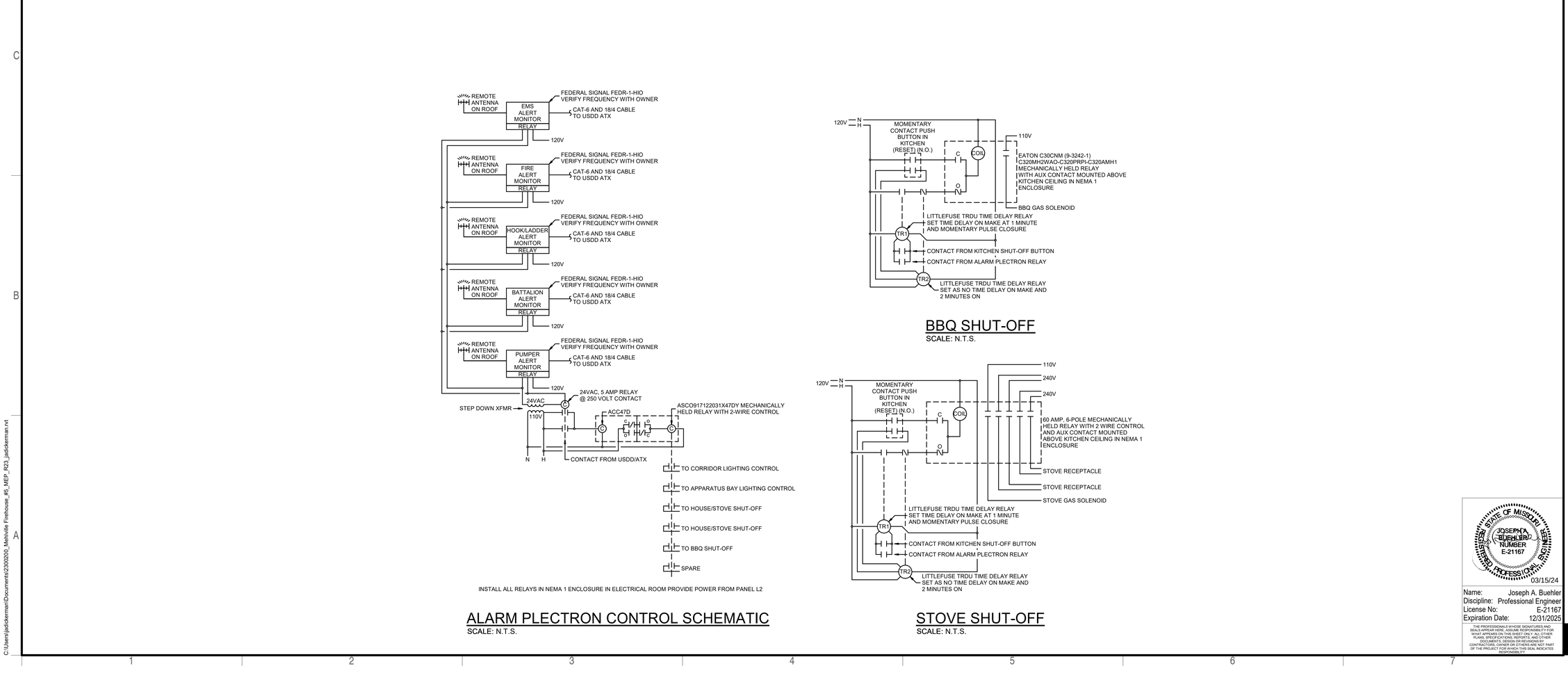

ALARM PLECTRON CONTROL SCHEMATIC

SCALE: N.T.S.

BBQ SHUT-OFF

SCALE: N.T.S.

STOVE SHUT-OFF

SCALE: N.T.S.

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Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Date	Revision

ELECTRICAL DETAILS

Project No. 22135

Sheet No. E500

Date 03/15/2024

STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER JOSEPH A. BUEHLER NUMBER E-21167
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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

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Panelboard:	MDP (EXISTING)	Mounting:		Surface			Location:	Room B118			Mains:		1200 A - 100kA SCCR
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		225 A		Feed From:		Utility via ATS
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Panel MP (Existing)		600 A	3	1	15853	21961					2	3	225 A	Panel H2 (Existing)
--		--	--	3			13139	21961			4	--	--	--
--		--	--	5					16497	22635	6	--	--	--
Panel L1A (Existing)		225 A	3	7	34	9336					8	3	225 A	Panel L2A (Existing)
--		--	--	9			0	7904			10	--	--	--
--		--	--	11					0	10199	12	--	--	--
Panel P2A (Existing)		200 A	3	13	2160	0					14	3	125 A	Elevator (Existing)
--		--	--	15			2780	0			16	--	--	--
--		--	--	17					1490	0	18	--	--	--
Panel P2B		200 A	3	19	6253	4800					20	3	200 A	Panel P2C
--		--	--	21			4639	4800			22	--	--	--
--		--	--	23					3201	4800	24	--	--	--
Panel L2B		200 A	3	25	9990	0					26	3	200 A	Spare
--		--	--	27			11080	0			28	--	--	--
--		--	--	29					12900	0	30	--	--	--
		Total Load:			70.32 kW		66.24 kW		71.67 kW					
		Total Amps:			591.24 A		551.96 A		602.51 A					

Panelboard:	H1 (EXISTING)	Mounting:		Surface			Location:	Room B119			Mains:		225 A
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		225 A		Feed From:		Panel MP
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
RTU-07		35 A	3	1	3002	3002					2	3	35 A	RTU-08
--		--	--	3			3002	3002			4	--	--	--
--		--	--	5					3002	3002	6	--	--	--
RTU-09		40 A	3	7	3483	0					8	2	40 A	Condensing Unit #1
--		--	--	9			3483	0			10	--	--	--
--		--	--	11					3483	100	12	1	20 A	MD-01, MD-02, MD-04, MD-05
EF-03		20 A	3	13	497	50					14	1	20 A	MD-03
--		--	--	15			497	75			16	1	15 A	EF-02
--		--	--	17					497	0	18	1	20 A	911 Equipment Receptacle
EF-04		20 A	3	19	1243	778					20	1	15 A	KEF-01/KEH-01
--		--	--	21			1243	0			22	1	20 A	Spare
--		--	--	23					1243	0	24	1	20 A	Spare
Space		--	1	25	--	--					26	1	--	Space
Space		--	1	27			--	--			28	1	--	Space
Space		--	1	29					--	--	30	1	--	Space
		Total Load:			12.06 kW		11.30 kW		11.33 kW					
		Total Amps:			100.49 A		94.18 A		94.42 A					

Panelboard:	L2 (EXISTING)	Mounting:		Surface			Location:	Room B111			Mains:		225 A
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		225 A		Feed From:		Panel MP
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Existing		20 A	1	1	0	742					2	1	20 A	Lighting - Corridor, Tool Shop, Stairs
Existing		20 A	1	3			0	0			4	1	20 A	Existing
Existing		20 A	1	5					0	424	6	1	20 A	Lighting - Day Room, Laundry Room, Office
Lighting - Apparatus Bay		20 A	1	7	736	605					8	1	20 A	Lighting - Dining Room, Kitchen
Lighting - Apparatus Bay		20 A	1	9			736	402			10	1	20 A	Lighting - Bunk Rooms
Lighting - Apparatus Bay		20 A	1	11					736	0	12	1	20 A	Existing
Lighting - Bunk Rooms		20 A	1	13	402	0					14	1	20 A	Existing
Lighting - Bunk Rooms		20 A	1	15			271	0			16	1	20 A	Existing
Receptacles - Toilet #3, Bunk #3		20 A	1	17					1080	900	18	1	20 A	Receptacles - Bunk #6
Receptacles - Toilet #4, Bunk #5		20 A	1	19	1080	0					20	1	20 A	Existing
Receptacles - Toilet #1, Bunk #4		20 A	1	21			1080	0			22	1	20 A	Existing
Receptacles - Bunk #1, Bunk #2		20 A	1	23					1800	900	24	1	20 A	Receptacles - Bunk #7
Lighting - Apparatus Bay		20 A	1	25	736	900					26	1	20 A	Receptacles - Bunk #8
Lighting - Apparatus Bay		20 A	1	27			736	0			28	1	20 A	Existing
Lighting - Apparatus Bay		20 A	1	29					736	0	30	1	20 A	Existing
Existing		20 A	1	31	0	0					32	1	20 A	Existing
Existing		20 A	1	33			0	0			34	1	20 A	Existing
Existing		30 A	1	35					0	0	36	2	50 A	Existing
Existing		20 A	1	37	0	0					38	--	--	--
Existing		30 A	2	39			0	0			40	2	50 A	Existing
--		--	--	41					0	0	42	--	--	--
		Total Load:			4.05 kW		2.31 kW		5.31 kW					
		Total Amps:			36.03 A		19.26 A		46.50 A					

Panelboard:	L2B	Mounting:		Surface			Location:	Room B124			Mains:		MLO
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		200 A		Feed From:		Panel MDP
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Receptacle - Toilet #2		20 A	1	1	180	140					2	1	20 A	Hood - Kitchen 203
Receptacle - Laundry Room, Washer		20 A	1	3			1500	140			4	1	20 A	Hood - Kitchen 203
Receptacle - Laundry Room, Dryer		20 A	2	5					2400	2400	6	2	50 A	Stove Receptacle - Kitchen 203
--		--	--	7	2400	2400					8	--	--	--
Receptacle - Laundry Room		20 A	1	9			180	2400			10	2	50 A	Stove Receptacle - Kitchen 203
Receptacle - Day Room		20 A	1	11					540	2400	12	--	--	--
Receptacle - Day Room		20 A	1	13	540	360					14	1	20 A	Countertop Receptacles - Kitchen 203 Island
Receptacle - Day Room		20 A	1	15			720	1200			16	1	20 A	Microwave - Kitchen 203 Island
Receptacle - Kitchen 203		20 A	1	17					180	1080	18	1	20 A	Receptacle - Dining Room
Refrigerator - Kitchen 203		20 A	1	19	1000	50					20	1	20 A	Time Clock Receptacle - Dining Room
Refrigerator - Kitchen 203		20 A	1	21			1000	0			22	1	20 A	Receptacle - Office 201
Refrigerator - Kitchen 203		20 A	1	23					1000	0	24	1	20 A	Receptacle - Office 201
Refrigerator - Kitchen 203		20 A	1	25	1000	180					26	1	20 A	Receptacle - Office 201
Dishwasher - Kitchen 203		20 A	1	27			1200	1080			28	1	20 A	Receptacles - Office 201
Garbage Disposer - Kitchen 203		20 A	1	29					1200	140	30	1	20 A	Baby Box - Office 201
Dishwasher - Kitchen 203		20 A	1	31	1200	180					32	1	20 A	Receptacle - Outside
Coffee Maker - Kitchen 203		20 A	1	33			800	500			34	1	20 A	FACP
Countertop Receptacles - Kitchen 203		20 A	1	35					360	0	36	1	20 A	Spare
Countertop Receptacles - Kitchen 203		20 A	1	37	360	0					38	1	20 A	Spare
Countertop Receptacles - Kitchen 203		20 A	1	39			360	0			40	1	20 A	Spare
Microwave - Kitchen 203		20 A	1	41					1200	0	42	1	20 A	Spare
		Total Load:			9.99 kW		11.08 kW		12.90 kW					
		Total Amps:			83.25 A		93.73 A		108.90 A					

Panelboard:	P2B	Mounting:		Surface			Location:	Room B120			Mains:		MLO
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		200 A		Feed From:		Panel MDP
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Receptacles - Gear Room 223, Storage 267		20 A	1	1	720	2400					2	2	30 A	Extractor - Decon Room
Receptacle - Toilet #5		20 A	1	3			180	2400			4	--	--	--
Receptacles - Chief Bunk Room		20 A	1	5					720	2400	6	2	30 A	Dryer - Decon Room
Receptacles - Storage 240		20 A	1	7	360	2400					8	--	--	--
Spare		20 A	1	9			0	1500			10	1	20 A	Washer - Decon Room
Spare		20 A	1	11					0	100	12	1	20 A	L-01 & L-02 - Gear Room 223, Decon Room
Spare		20 A	1	13	0	373					14	1	15 A	EF-01 - Gear Room 223
Spare		20 A	1	15			0	559			16	1	15 A	SF-01 - Decon Room
Spare		20 A	1	17					0	0	18	1	20 A	Spare
Spare		20 A	1	19	0	0					20	1	20 A	Spare
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
Spare		20 A	1	35					0	0	36	1	20 A	Spare
Spare		20 A	1	37	0	0					38	1	20 A	Spare
Spare		20 A	1	39			0	0			40	1	20 A	Spare
Spare		20 A	1	41					0	0	42	1	20 A	Spare
		Total Load:			6.25 kW		4.64 kW		3.20 kW					
		Total Amps:			53.95 A		40.50 A		26.67 A					

Panelboard:	MP (EXISTING)	Mounting:		Surface			Location:	Room B116			Mains:		400 A
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		400 A		Feed From:		Panel MDP
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Space		--	1	1	--	4055					2	3	200 A	Panel L2-P2 (Existing)
Space		--	1	3			--	2311			4	--	--	--
Space		--	1	5					--	5312	6	--	--	--
Panel EP1 (Existing)		100 A	3	7	0	12055					8	3	225 A	Panel H1 (Existing)
--		--	--	9			0	11302			10	--	--	--
--		--	--	11					0	11327	12	--	--	--
Panel P1 (Existing)		200 A	3	13	0	0					14	3	100 A	Panel L1 (Existing)
--		--	--	15			0	0			16	--	--	--
--		--	--	17					0	0	18	--	--	--
		Total Load:			15.85 kW		13.14 kW		16.50 kW					
		Total Amps:			135.59 A		109.49 A		140.95 A					

Panelboard:	H2 (EXISTING)	Mounting:		Surface			Location:	Room B115			Mains:		225 A
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		225 A		Feed From:		Panel MDP
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
RTU-01		35 A	3	1	2522	3002					2	3	35 A	RTU-02
--		--	--	3			2522	3002			4	--	--	--
--		--	--	5					2522	3002	6	--	--	--
RTU-03		35 A	3	7	3002	3483					8	3	40 A	RTU-04
--		--	--	9			3002	3483			10	--	--	--
--		--	--	11					3002	3483	12	--	--	--
RTU-05		35 A	3	13	4924	4924					14	3	80 A	RTU-06
--		--	--	15			4924	4924			16	--	--	--
--		--	--	17					4924	4924	18	--	--	--
Spare		30 A	3	19	0	104					20	2	15 A	AC-01
--		--	--	21			0	104			22	--	--	--
--		--	--	23					0	778	24	1	20 A	KEF-03/KEH-03
Apparatus Bay Fan		20 A	2	25	0	0					26	1	20 A	Apparatus Bay Heaters
--		--	--	27			0	0			28	1	20 A	Ambulance GFI
Garage Door Opener #3		20 A	1	29					0	0	30	1	20 A	Ambulance GFI
Garage Door Opener #4		20 A	1	31	0	--					32	1	--	Space
Unknown		20 A	1	33			0	--			34	1	--	Space
Space		--	1	35					--	--	36	1	--	Space
Space		--	1	37	--	--					38	1	--	Space
Space		--	1	39			--	--			40	1	--	Space
Space		--	1	41					--	--	42	1	--	Space
		Total Load:			21.96 kW		21.96 kW		22.63 kW					
		Total Amps:			183.01 A		183.01 A		188.62 A					

Panelboard:	L2A (EXISTING)	Mounting:		Surface			Location:	Room B113			Mains:		225 A
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		225 A		Feed From:		Panel MDP
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Lighting - Purchasing, Fire Chief		20 A	1	1	371	0					2	2	30 A	EWH-01
Lighting - Comptroller, District Clerk		20 A	1	3			401	0			4	--	--	--
Lighting - Copy/Work, Server, Office Supply, A...		20 A	1	5					369	0	6	1	20 A	Microwave
Lighting - Restrooms, Corridor, Entry		20 A	1	7	268	0					8	1	20 A	Refrigerator
Lighting - Admin		20 A	1	9			993	1000			10	1	20 A	Refrigerator Receptacle - Breakroom 264
Lighting - Bunk Room, Chief, Asst Chief, Storage		20 A	1	11					404	1000	12	1	20 A	Refrigerator Receptacle - Breakroom 264
Lighting - Gear Room, Decon, Toilet, Storage		20 A	1	13	449	1000					14	1	20 A	Refrigerator Receptacle - Breakroom 264
Lighting - Corridor, Stairs		20 A	1	15			561	1000			16	1	20 A	Refrigerator Receptacle - Breakroom 264
Lighting - Inspector, Fire Marshal, Library, Office		20 A	1	17					541	1200	18	1	20 A	Dishwasher Receptacle - Breakroom 264
Lighting - Storage, EMS Admin, Office, Inspector		20 A	1	19	621	1200					20	1	20 A	Microwave Receptacle - Breakroom 264
Lighting - Bunk Room, Offices		20 A	1	21			541	360			22	1	20 A	Countertop Receptacles - Breakroom 264
Lighting - Bunk Rooms, Medical Director		20 A	1	23					368	1200	24	1	20 A	Microwave Receptacle - Breakroom 264
Lighting		20 A	1	25	0	800					26	1	20 A	Coffee Receptacle - Breakroom 264
Lighting - Apparatus Bay		20 A	1	27			0	900			28	1	20 A	Receptacles - Breakroom 264
Lighting - Apparatus Bay		20 A	1	29					0	3750	30	2	50 A	Range
Lighting - Apparatus Bay		20 A	1	31	0	3750					32	--	--	--
Lighting - Corridor		20 A	1	33			535	540			34	1	20 A	Receptacles - Board Room 255
Lighting - Exterior Building		20 A	1	35					126	900	36	1	20 A	Receptacles - Board Room 255
Receptacles - Fire Marshal 253, Admin 256		20 A	1	37	540	720					38	1	20 A	Receptacles - Board Room 255
Countertop Receptacles - Corridor		20 A	1	39			720	360			40	1	20 A	Receptacles - Board Room 255
Receptacles - Corridor		20 A	1	41					360		42			
		Total Load:			9.34 kW		7.90 kW		10.20 kW					
		Total Amps:			79.64 A		65.87 A		86.83 A					

Panelboard:	P2A (EXISTING)	Mounting:		Surface			Location:	Room B114			Mains:		MLO
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		225 A		Feed From:		Panel MDP
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Existing		20 A	1	1	0	0					2	1	20 A	Existing
Existing		20 A	1	3			0	0			4	1	20 A	Existing
Existing		20 A	1	5					0	0	6	1	20 A	Existing
Existing		20 A	1	7	0	0					8	1	20 A	Existing
Existing		20 A	1	9			0	0			10	1	20 A	Existing
Existing		20 A	1	11					0	0	12	1	20 A	Existing
Existing		20 A	1	13	0	0					14	1	20 A	Existing
Existing		20 A	1	15			0	0			16	1	20 A	Existing
Existing		20 A	1	17					0	0	18	1	20 A	Existing
Existing		20 A	1	19	0	720					20	1	20 A	Receptacles - Bunk #9
Existing		20 A	1	21			0	0			22	1	20 A	Existing
Existing		20 A	1	23					0	0	24	1	20 A	Existing
Receptacles - Bunk #8		20 A	1	25	720	0					26	1	20 A	Existing
Receptacles - Copy/Work 265		20 A	1	27			900	800			28	1	20 A	Printer/Copier Receptacle - Copy/Work 265
Existing		20 A	1	29					0	0	30	1	20 A	Existing
Receptacle - Toilet #8		20 A	1	31	180	0					32	1	20 A	Existing
Existing		20 A	1	33			0	0			34	1	20 A	Existing
Receptacles - Medical Director 229		20 A	1	35					540	0	36	1	20 A	Existing
Receptacles - Medical Director 229		20 A	1	37	540	0					38	1	20 A	Existing
Receptacles - ADC Office 234, DC Office 231		20 A	1	39			1080	0			40	1	20 A	Existing
Receptacles - Bunk #10		20 A	1	41					900	50	42	1	20 A	PAC-01 Condensate Pump
		Total Load:			2.16 kW		2.78 kW		1.49 kW					
		Total Amps:			18.86 A		24.03 A		12.42 A					

Panelboard:	P2C	Mounting:		Surface			Location:	Room B126			Mains:		MLO
Volts:	120/208 Wye	Phases:		3	Wire:	4	Amps:		200 A		Feed From:		Panel MDP
Circuit Description		Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Electric Power Pedestal		20 A	1	1	1200	1200					2	1	20 A	Electric Power Pedestal
Electric Power Pedestal		20 A	1	3			1200	1200			4	1	20 A	Electric Power Pedestal
Electric Power Pedestal		20 A	1	5					1200	1200	6	1	20 A	Electric Power Pedestal
Electric Power Pedestal		20 A	1	7	1200	1200					8	1	20 A	Electric Power Pedestal
Electric Power Pedestal		20 A	1	9			1200	1200			10	1	20 A	Electric Power Pedestal
Electric Power Pedestal		20 A	1	11					1200	1200	12	1	20 A	Electric Power Pedestal
Spare		20 A	1	13	0	0					14	1	20 A	Spare
Spare		20 A	1	15			0	0			16	1	20 A	Spare
Spare		20 A	1	17					0	0	18	1	20 A	Spare
Spare		20 A	1	19	0	0					20	1	20 A	Spare
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
Spare		20 A	1	35					0	0	36	1	20 A	Spare
Spare		20 A	1	37	0	0					38	1	20 A	Spare
Spare		20 A	1	39			0	0			40	1	20 A	Spare
Spare		20 A	1	41					0	0	42	1	20 A	Spare
		Total Load:			4.80 kW		4.80 kW		4.80 kW					
		Total Amps:			40.00 A		40.00 A		40.00 A					

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DISCIPLINE: PROFESSIONAL ENGINEERING
REGISTERED PERSONNEL: JOSEPH A. BUEHLER
EXPIRATION DATE: DECEMBER 31, 2024

Proposed:

Mehlville Fire House No.5

11020 MUELLER ROAD

No.	Revision	Date

ELECTRICAL SCHEDULES

Project No. 22135

Sheet No. E600

Date 03/15/2024

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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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" 6" 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

3/18/2024 11:46:57 AM
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EQUIPMENT DATA SCHEDULE

MARK	EQUIPMENT	LOCATION	FURN. BY (DIV)	MOTOR OR EQUIPMENT DATA			DISCONNECT SWITCH AT EQUIPMENT			STARTER				REMOTE CONTROLS			REMARKS
				HP/kW MCA (1)	VOLTS/ PHASE	INST. BY CONN. BY	TYPE (2)	FURN. BY	INST. BY CONN. BY	TYPE (3)	ACCESSORIES (4)	FURN. BY	INST. BY CONN. BY	TYPE (5)	FURN. BY	INST. BY CONN. BY	
AC-01	Air Conditioner	Roof	23	1 MCA	208/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
PAC-01	Split A/C Unit	Server 263	23		208/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	Connect to AC-01
EDH-01	Electric Duct Heater #1	Decon Room	23	17 kW	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
EF-01	Exhaust Fan #1	Gear Room	23	1/2 HP	120/1	23/26	M	23	23/26	-	-	-	-	SS	23	23/23	
EF-02	Exhaust Fan #2	Roof	23	1/10 HP	120/1	23/26	M	23	23/26	-	-	-	-	SS	23	23/23	
EF-03	Exhaust Fan #3	Roof	23	2 HP	208/3	23/26	F	23	23/26	FVNR	-	26	26/26	SS	23	23/23	
EF-04	Exhaust Fan #4	Roof	23	5 HP	208/3	23/26	F	23	23/26	FVNR	-	26	26/26	SS	23	23/23	
KEF-01	Kitchen Exhaust Fan #1	Kitchen	23	.4 HP	120/1	23/26	M	23	23/26	-	-	-	-	SS	23	23/23	
KEF-02	Kitchen Exhaust Fan #2	Kitchen	23	.4 HP	120/1	23/26	M	23	23/26	-	-	-	-	SS	23	23/23	
KEF-03	Kitchen Exhaust Fan #3	Break Room	23	.4 HP	120/1	23/26	M	23	23/26	-	-	-	-	SS	23	23/23	
SF-01	Supply Fan #1	Decon Room	23	3/4 HP	120/1	23/26	M	23	23/26	-	-	-	-	SS	23	23/23	
KEH-01	Kitchen Exhaust Hood #1	Kitchen	23	4 A	120/1	23/26	M	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
KEH-02	Kitchen Exhaust Hood #2	Kitchen	23	4 A	120/1	23/26	M	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
KEH-03	Kitchen Exhaust Hood #3	Break Room	23	4 A	120/1	23/26	M	23	23/26	PWCP	-	23	23/23	SS	23	23/23	
RTU-01	Rooftop Unit #1	Roof	23	25 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/26	SS -FAI	23 - 26	23/23 - 23/26	
RTU-02	Rooftop Unit #2	Roof	23	25 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/26	SS -FAI	23 - 26	23/23 - 23/26	
RTU-03	Rooftop Unit #3	Roof	23	25 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/26	SS -FAI	23 - 26	23/23 - 23/26	
RTU-04	Rooftop Unit #4	Roof	23	29 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/26	SS -FAI	23 - 26	23/23 - 23/26	
RTU-05	Rooftop Unit #5	Roof	23	25 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/26	SS -FAI	23 - 26	23/23 - 23/26	
RTU-06	Rooftop Unit #6	Roof	23	51 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/26	SS -FAI	23 - 26	23/23 - 23/26	
RTU-07	Rooftop Unit #7	Roof	23	25 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/26	SS -FAI	23 - 26	23/23 - 23/26	
RTU-08	Rooftop Unit #8	Roof	23	25 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/26	SS -FAI	23 - 26	23/23 - 23/26	
RTU-09	Rooftop Unit #9	Roof	23	29 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/26	SS -FAI	23 - 26	23/23 - 23/26	

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 22 = PLUMBING CONTRACTOR 23 = HVAC CONTRACTOR 26 = ELECTRICAL 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

4. ACCESSORIES:
HOA = HAND-OFF AUTO SELECTOR SWITCH N.O. = NORMALLY OPEN AUXILIARY CONTACT N.C. = NORMALLY CLOSED AUXILIARY CONTACT

5. REMOTE CONTROL:
AQ = AQUASTAT FAI = FIRE ALARM INTERLOCK 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

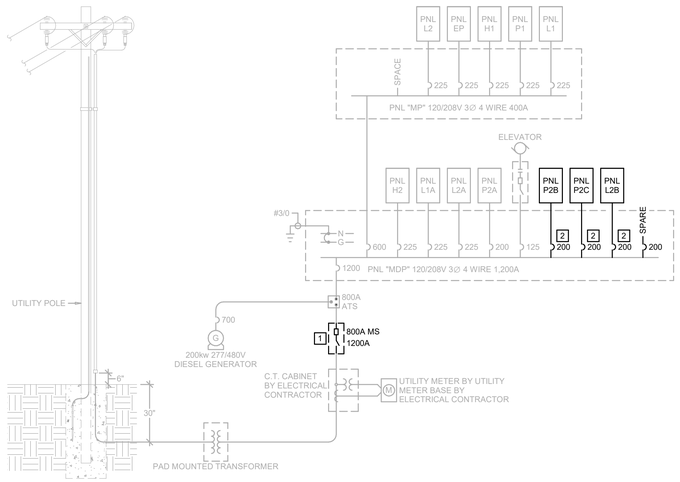
LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG	#	LAMP TYPE	FINISH	MOUNTING	REMARKS
A	Metalux	24CZ2-45-UNV-L835-CD1-EQCLIP	45	LED	White	Recessed	
B	Metalux	24CZ2-65-UNV-L835-CD1-EQCLIP	65	LED	White	Recessed	
C	Metalux	4SNLED-LD5-44SL-LW-UNV-L835-CD1	44	LED	White	Recessed	
D	Metalux	8SNLED-LD5-88SL-LW-UNV-L835-CD1	88	LED	White	Surface	
E	Existing fixture to remain						Existing fixture to remain
F	AFX	MLRV2605LAJD1SN	17	LED	Satin Nickel	Wall	
G	Metalux	4SLWLED-41SL-LW-UNV-L835-CD1-SVPD3-ISHH-01-EL14W	40	LED	White	Wall	Light 50% on when unoccupied 100% on when occupied
H	Portfolio	LD6C159035D010W2H	15	LED	White	Recessed	
HE	Portfolio	LD6C159035D010W2HEM7	15	LED	White	Recessed	
J	Portfolio	LD6B15D010 EU6B10208035 6LBW2H	15	LED	White	Recessed	
K	ALW	OP41-35-W-XX-XX		LED	Per Architect	Pendant	
L	Metalux	4SNLED-LD5-58SL-LW-UNV-L835-CD1	58	LED	White	Hung	
LE	Metalux	4SNLED1-LD5-58SL-LW-UNV-EL14W-L835-CD1	58	LED	White	Hung	
M	Portfolio	LD6C109035D010W2H	10	LED	White	Recessed	
ME	Portfolio	LD6C109035D010W2HEL7	10	LED	White	Recessed	
N	Metalux	22CZ-LD5-34-UNV-L835-CD1-EQ-CLIP-U	34	LED	White	Recessed	
NE	Metalux	22CZ-LD5-34-UNV-EL10W-L835-CD1-EQ-CLIP-U	34	LED	White	Recessed	
O	Fail-Safe	UCL-2-LD4-35-A12125-EDC1-UNV-ALH	35	LED	White	Under Cabinet	
P	Portfolio	LD6C159035D010W2H LGSKT6IP66	15	LED	White	Recessed	
Q	ALW	T3SP-DND-138335-ZZXXSSXX	13	LED	Par Architect	Pendant	Architect to pick length and color
R	Kenall	MLHA8-48-F-MW-PP-45L35K-DCC-1-1-20-LEL	45	LED	White	Surface	
S	Portfolio	LD6C209035D010W2H	20	LED	White	Recessed	
SA	McGraw Edison	IST-SA1C-735-U-T3-BK-CBR-BPC	45	LED	Black	Wall	
SB	Kim	AFL10-NF-54-3K-35-UV-BL-HDS-SM18-BL-208V	54	LED	Black	Ground	
T	Nulite	RG6-06L35-UNV-11-STF-4	24	LED	White	Recessed	
TE	Nulite	RG6-06L35-UNV-11-STF-4-EM	24	LED	White	Recessed	
V	DADO	HL15-3KL-35-W-R-PAT-RTXX-IC90 R-X-D010-UNV					See architectural elevation. Fixture is horizontal and vertical. Field measure.
W	Lumenwerx	V3SKIS-GRO-LED-80-500-35-XX-UNV-D1-1-DMF-W		LED	White	Recessed	Length varies. Measure in field.
X	Sure-Lites	CX7XR		LED	Aluminum	Varies	Faces as per drawings
XA	Sure-Lites	APC-7-R-SQ		LED	White	Varies	Faces as per drawings. Battery Back-up.
Y	Williams	75-4-L30-8035-DIM-UNV	30	LED	White		Mount in front corner of display on ceiling.
Z	Lite Tops	DWG 3692		LED	Satin Nickel	Wall	Provide with LED lamp 115-01 white linen fabric satin nickel finish.

E601 KEYED NOTES

1 REPLACE EXISTING 1200 AMP FUSES WITH KRP-C-800SP 800 AMP FUSES.

2 INSTALL NEW SQUARE D Q232200 200 AMP BREAKER IN EXISTING PANEL.



ONE-LINE DIAGRAM
SCALE: N.T.S.

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EXPIRATION DATE: DECEMBER 31, 2024

Proposed:
Mehlville Fire House No.5
11020 MUELLER ROAD

No.	Date	Revision

ELECTRICAL SCHEDULES AND ONE-LINE

Project No. 22135

Sheet No. E601

Date 03/15/2024

STATE OF MISSOURI JOSEPH A. BUEHLER NUMBER E-21167 REGISTERED PROFESSIONAL ENGINEER
03/15/24

Name: Joseph A. Buehler
Discipline: Professional Engineer
License No: E-21167
Expiration Date: 12/31/2025

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