

ADDENDUM NO. 4

TO: **PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI**

**Troop A Headquarters, MSHP
Lee's Summit, Missouri
PROJECT NO. R2219-01**

Bid Opening Date: 1:30 PM Thursday, October 12th, 2023 (Not Changed)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. Section 064023 – Interior Architectural Woodwork
 - a. ADD: Item 2.5.F.1.c. Thermally Fused Laminate (TFL) panels.
 - b. ADD: Item 2.6.D.1 3.0-mm PVC edging is acceptable.
2. Section 263213 – Packaged Engine Generator Systems
 - a. MODIFY: Item 1.6.B Changed system capacity of generator from 275kW to 350kW.
 - b. MODIFY: Item 2.7 Changed from walk-in generator enclosure to skin-tight enclosure.
 - c. ADD: Item 2.7.2 Added note that setup stepladder shall be provided for each door hinge on the generator enclosure.
3. Section 283101 – Fire Alarm and Detection Systems Addressable
 - a. MODIFY: Item 1.5.H Removed Voice Alarm Communication system.
 - b. MODIFY: Item 1.9.E Removed Firefighter Phone system.
 - c. MODIFY: Item 2.2.B.1 Changed minimum addressable points from 500 to 150.
 - d. MODIFY: Item 2.2.B.3 Changed expandable SLC capacity from 10 to 8.
 - e. MODIFY: Item 2.7 Removed Firefighter's smoke control panel.
 - f. MODIFY: Item 3.1.E Changed sequence for Preaction sprinkler system to only monitor the control panel for the system instead of release.
 - g. MODIFY: Item 3.1.F Removed clean agent sequence.
 - h. MODIFY: Item 3.1.G Removed kitchen hood sequence.

DRAWING CHANGES:

1. Sheet C-400:
 - a. MODIFY: Revised natural gas line exit location and routing from Troop A building to future firing range. Revised gas line size from 2-1/2" to 3" from Troop A building to future firing range.
2. Sheet C-800:
 - a. ADD: Added note to include fibermesh reinforcement in all concrete curb and flat work at a rate of 2 lbs per cubic yard of concrete.
3. Sheet C-902:
 - a. MODIFY: Revised gas line size from 2-1/2" to 3" from Troop A building to future firing range.

4. Sheet A-210:
 - a. Details 3/A-210 – Modify: Note: “Solid surface transaction top, SS-2 (064023)” to “Solid surface transaction top, SS-2, beyond (064023).”
5. Sheet A-510:
 - b. Details 1-7, 11-12 – DELETE: Note: “Cabinet construction to be ¾” plywood with plastic laminate on all exposed surfaces. Interior surfaces may be white melamine. Doors to be plastic laminate both sides.”
 - c. Detail 8/A-510 – MODIFY: notes to from “MDF core” to “typical core.”
3. Sheet P202:
 - a. ADD: Add new 3” natural gas branch line for firing range.
 - b. ADD: Keynote 10
4. Sheet P203:
 - a. MODIFY: Revise natural gas line from 2-1/2” to 3”
 - b. MODIFY: Keynote 1
5. Sheet P212:
 - a. ADD: Add new 3” natural gas branch line for firing range.
 - b. ADD: Add new keynote 11
6. Sheet P213:
 - a. MODIFY: Revise natural gas line from 2-1/2” to 3”
 - b. ADD: BFP-DW-1 added to 1-1/2” CW line
 - c. MODIFY: Keynotes 1-6
7. Sheet P223:
 - a. MODIFY: Revise natural gas line from 2-1/2” to 3”
8. Sheet E212:
 - a. MODIFY: Changed 350kW generator and tank size physical dimensions to match basis of design change from Addendum #1.
 - b. MODIFY: Changed generator set on plans from 300 to 350kW as well as keynote 11 to match the generator size being 350kW.

GENERAL:

1. The Pre-Bid Meeting was held Tuesday, September 12th, 2023 followed by a walk-through of the facility.
2. Please contact Mandy Roberson, Contract Specialist, at 573-522-0074 or Mandy.Roberson@oa.mo.gov for questions about bidding procedures and MBE/WBE/SDVE goals and submittal requirements.
3. **All bids shall be submitted on the bid forms without additional terms and conditions, modifications, or stipulations. Each space on the bid forms shall be properly filled including a bid amount for the alternate. Failure to do so will result in rejection of the bid.**
4. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. All MBE, WBE, and MBE/WBE contractors, subcontractors, and suppliers must be certified by the State of Missouri, Office of Equal Opportunity. No other certifications from other Missouri certifying agencies will be accepted. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**
5. The deadline for technical questions was September 26th, 2023 at noon.
6. Changes to, or clarification of, the bid documents are only made as issued in the addenda.

7. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
8. Current Planholders list available online at:
<https://www.oafmdcplanroom.com/jobs/2127/plan-holders/r2219-01-construct-new-headquarters-mshp-troop-a>
9. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd., Suite 7A, Columbia MO 65203, 573-446-7768 to order official plans and specifications.

ATTACHMENTS:

1. C-400
2. C-800
3. C902
4. A-210
5. A-510
6. P-202
7. P-203
8. P-212
9. P-213
10. P-223
11. E-212

END OF ADDENDUM NO. 4



OFFICE OF AUTHORIZATION
STATE OF MISSOURI
DIVISION OF FACILITIES
MANAGEMENT
CONSTRUCTION

Project Name
Troop A Headquarters
MSHP
1950 NE Independence Ave.
Lee's Summit, MO 64086

PROJECT # R2219-01
SITE # 6018
FACILITY # 8156018019

REVISION: Addendum 04
DATE: 05 October 2023
REVISION:
DATE:
REVISION: 844 Documents
DATE: 01 August 2023

CAD DWG FILE: C-400.dwg
DRAWN BY: SNH
CHECKED BY: JDC
DESIGNED BY: JDC

OVERALL UTILITY PLAN

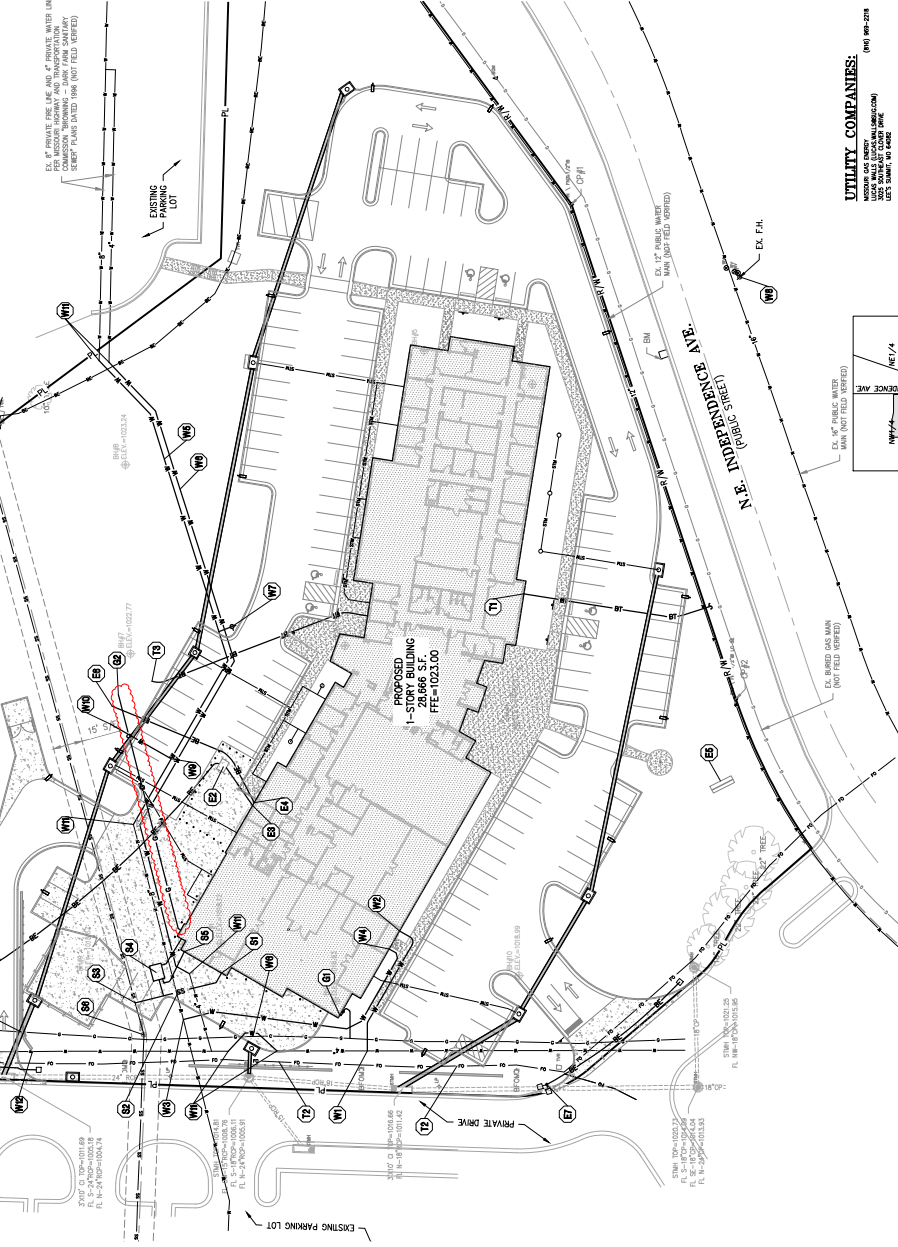
SHEET NUMBER:
C-400
SHEET 014 OF 202
08/01/2023

UTILITY NOTES:

- The contractor is authorized to install, maintain, and replace all utility lines as shown on these plans in accordance with the applicable utility codes, and where necessary, to modify the utility lines to meet the requirements of the utility codes. The contractor shall be responsible for obtaining any necessary permits from the applicable utility companies.
- The contractor shall verify the exact location and depth of all existing utility lines before any excavation or construction begins. If any utility lines are encountered during construction, the contractor shall immediately stop work and notify the appropriate utility company.
- The contractor shall provide and maintain the safety of all utility lines throughout the project. All utility lines shall be protected and clearly marked throughout the construction process.
- All excavation work shall be supported by shoring and trench shields. The contractor shall ensure that all excavations are properly braced and shored to prevent collapse. Excavations shall be backfilled and compacted to meet the requirements of the applicable utility codes.
- The contractor shall be responsible for obtaining all necessary permits from the applicable utility companies. All utility lines shall be clearly marked and identified throughout the construction process.
- The contractor shall be responsible for providing and maintaining the safety of all utility lines throughout the project. All utility lines shall be protected and clearly marked throughout the construction process.
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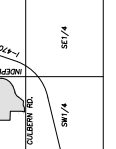
LEGEND

FL	PROPERTY LINE
CL	LOT LINE
GP	GENERAL PURPOSE DRIVEWAY
SP	EXISTING CABLE TELEVISION LINE
FO	EXISTING FIBER OPTIC LINE
EA	EXISTING AIR LINE
EP	EXISTING OVERHEAD POWER LINE
EO	EXISTING OVERHEAD TELEPHONE LINE
ES	EXISTING UNDERGROUND POWER LINE
ET	EXISTING UNDERGROUND TELEPHONE LINE
EX	EXISTING STORM SEWER LINE (S 30")
EX	EXISTING SANITARY SEWER LINE (S 30")
EX	EXISTING WATER LINE (S 30")
EX	EXISTING GAS MAIN (S 30")
PR	PROPOSED STORM SEWER LINE (S 30")
PR	PROPOSED SANITARY SEWER LINE (S 30")
PR	PROPOSED WATER LINE (S 30")
PR	PROPOSED GAS MAIN (S 30")



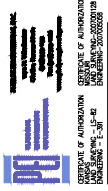
UTILITY COMPANIES:

(816) 488-2798	AMERICAN ELECTRIC COMPANY (AECOM)
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UTILITY NOTES:
EXISTING UTILITY LOCATIONS ARE AS SHOWN.
EXISTING UTILITY DEPTHS ARE AS SHOWN.
EXISTING UTILITY TYPES ARE AS SHOWN.
EXISTING UTILITY DEPTHS ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.
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Know what's below.
Call before you dig.



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MSHP
1950 NE Independence Ave.,
Lee's Summit, MO 64086

PROJECT # R2219-01
SITE # 6018
FACILITY # 8136018019

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CAD DWG FILE: C-902.dwg
DRAWN BY: SNH
CHECKED BY: JDC
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SHEET TITLE:
FIRING RANGE
UTILITY PLAN
(ALTERNATE #04)

SHEET NUMBER:
C-902
SHEET 014 OF 202
08/01/2023

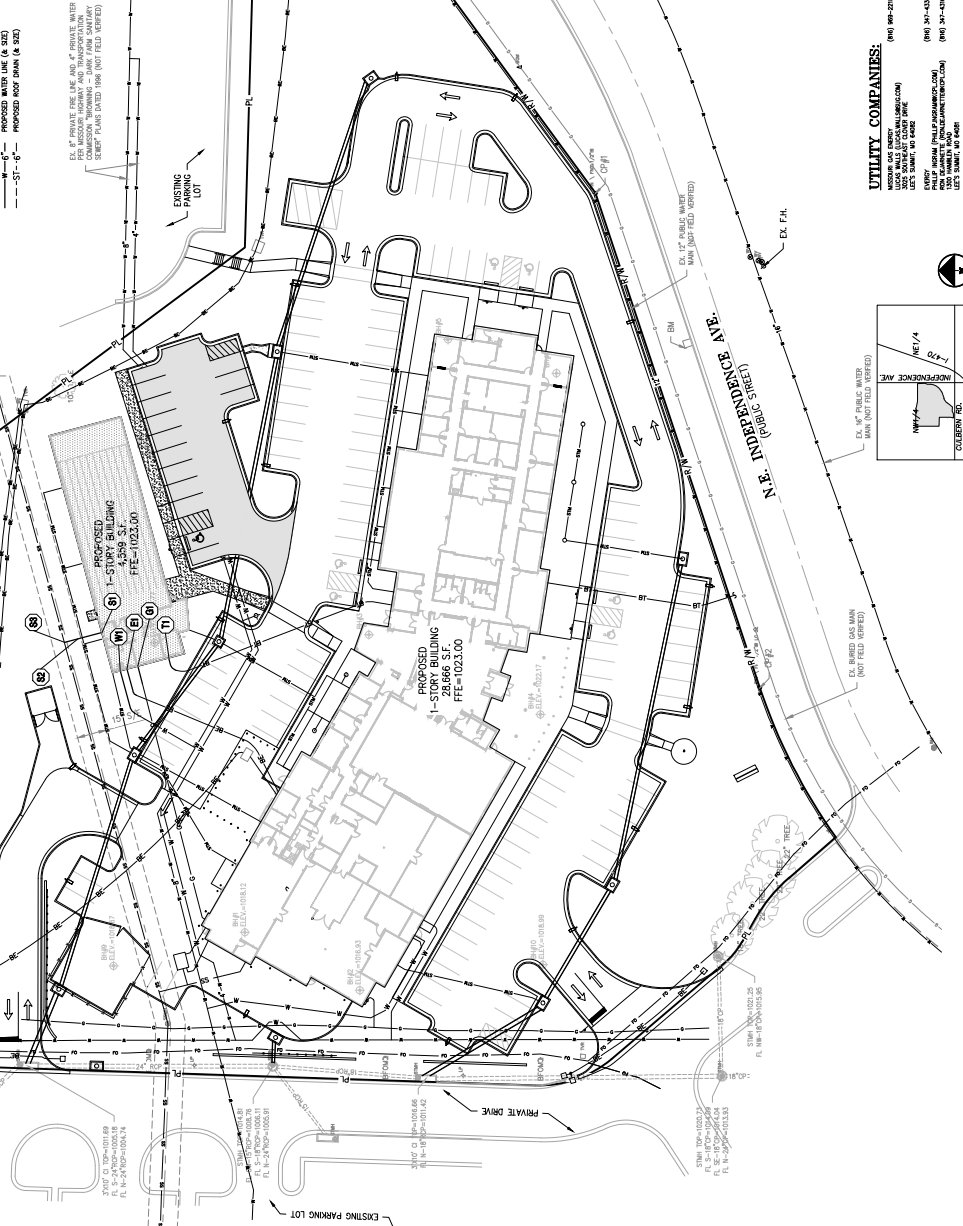
- ### UTILITY NOTES:
- The contractor is responsible for obtaining all utility information and for marking all utility lines in accordance with the Missouri Public Utility Marking Act (MUPA) prior to any excavation work. All utility lines shall be marked with paint or flagging in accordance with the Missouri Public Utility Marking Act (MUPA) prior to any excavation work. All utility lines shall be marked with paint or flagging in accordance with the Missouri Public Utility Marking Act (MUPA) prior to any excavation work.
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- ### UTILITY KEY NOTES:
- CONTRACTOR TO VERIFY ALL UTILITY LINES PRIOR TO ANY EXCAVATION WORK. ALL UTILITY LINES SHALL BE MARKED WITH PAINT OR FLAGGING IN ACCORDANCE WITH THE MISSOURI PUBLIC UTILITY MARKING ACT (MUPA) PRIOR TO ANY EXCAVATION WORK.
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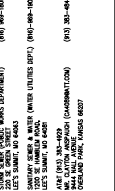
LEGEND

PL	PROPERTY LINE
LL	LOT LINE
EW	EXISTING WATER MAIN
EW	EXISTING WATER SERVICE
EW	EXISTING WATER METER
EW	EXISTING WATER VALVE
EW	EXISTING WATER TAP
EW	EXISTING WATER CLEANOUT
EW	EXISTING WATER WASTE
EW	EXISTING WATER SUMP
EW	EXISTING WATER PUMP
EW	EXISTING WATER TOWER
EW	EXISTING WATER STORAGE TANK
EW	EXISTING WATER DISTRIBUTION
EW	EXISTING WATER COLLECTION
EW	EXISTING WATER TREATMENT
EW	EXISTING WATER REUSE
EW	EXISTING WATER RECYCLING
EW	EXISTING WATER PURIFICATION
EW	EXISTING WATER DISTRIBUTION
EW	EXISTING WATER COLLECTION
EW	EXISTING WATER TREATMENT
EW	EXISTING WATER REUSE
EW	EXISTING WATER RECYCLING
EW	EXISTING WATER PURIFICATION



UTILITY COMPANIES:

AMERICAN BELL TELEPHONE COMPANY	(816) 488-2718
AT&T	(816) 488-2718
CENTURYLINK	(816) 488-2718
COMCAST	(816) 488-2718
CORNING	(816) 488-2718
COX	(816) 488-2718
DIGITAL GLOBE	(816) 488-2718
DISH	(816) 488-2718
EMERSON	(816) 488-2718
ENTERCOM	(816) 488-2718
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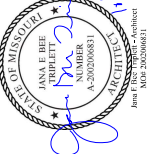
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EXPLORER 50 (816) 488-2718

VICINITY MAP
SEC. 19-48-31

UTILITY NOTES:
UTILITY LOCATIONS OF UTILITIES ARE AS SHOWN.
LESSONS ARE APPROXIMATE AND SHOULD BE VERIFIED IN
FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.

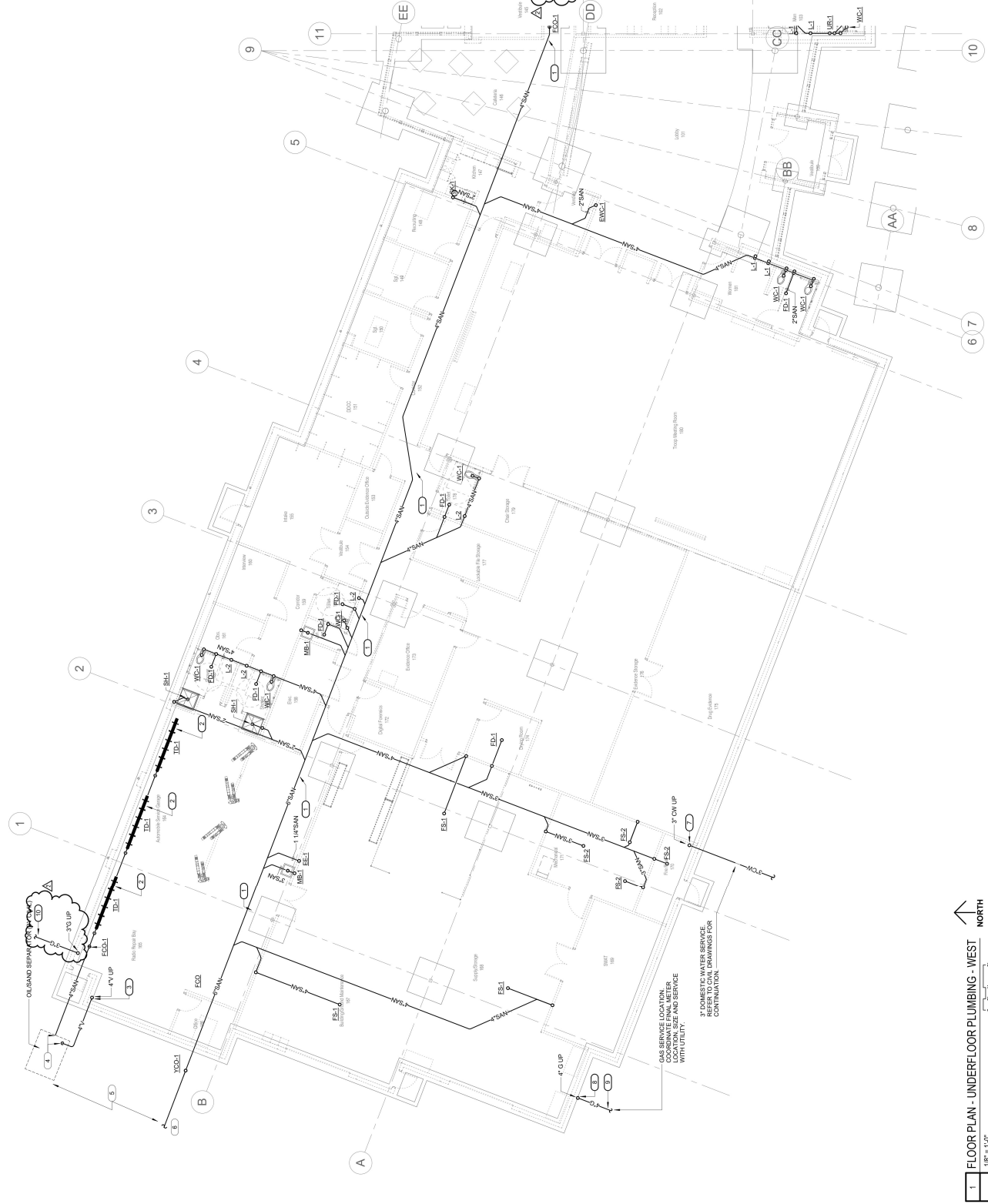
811
Know what's below.
Call before you dig.





- SHEET NOTES:**
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS. ALL INSTALLATIONS SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - ALL PIPING SHALL BE CONCEALED, SURFACE UNLESS NOTED OTHERWISE.
 - REFER TO PLUMBING FIXTURE SCHEDULE AND INFORMATION ON FIXTURE TYPE AND PIPE SIZING.

- REMARKS:**
- FIELD COORDINATE EXACT FINISH FLOORING. MAINTAIN CLEARANCE FROM STRUCTURAL FOOTING.
 - FIELD COORDINATE EXACT FINISH FLOORING. MAINTAIN CLEARANCE FROM STRUCTURAL FOOTING.
 - ONLY COORDINATE FINAL PORTION OF DESIGN FOR CONTRACTOR'S REVIEW. MAINTENANCE CONTRACTORS AND MAINTENANCE EQUIPMENT PLANS.
 - ROUTE NEW 4" SANITARY VENT FOR OILS AND SEPARATOR THRU ROOF.
 - PLUMBING CONTRACTOR TO FIELD CONTRACTOR FOR OILS AND SEPARATOR AND CIVIL UTILITY CONTRACTOR FOR MAINTENANCE GARAGE SANITARY LINE TO MAIN BUILDING SANITARY LINE.
 - ROUTE TO MAIN BUILDING SANITARY LINE AND COORDINATE FINAL CONNECTION. ROUTING CONTRACTOR REFER TO CIVIL SITE SANITARY.
 - ROUTE NEW 4" DOMESTIC WATER SERVICE TO ROOM EQUIPMENT. REFER TO SHEET P212 FOR CONNECTION TO CITY SANITARY.
 - ROUTE NEW 4" NATURAL GAS SERVICE TO EXTERIOR MOUNTED METER. REFER TO SHEET P22 FOR CONNECTION.
 - NEW 2" NATURAL GAS LINE BELOW GRADE FROM NEW SITE SERVICE CONNECTION TO MEET REQUIREMENTS WITH CIVIL UTILITY CONTRACTOR REFER TO CIVIL UTILITY CONTRACTOR FOR CONNECTION TO CITY SANITARY.
 - CIVIL UTILITY CONTRACTOR TO EXTEND FINAL ROUTING TO FINISH RANGE STUBUP TO MAIN UTILITY TRENCH AND COORDINATE WITH CIVIL UTILITY CONTRACTOR FOR FURTHER INFORMATION.



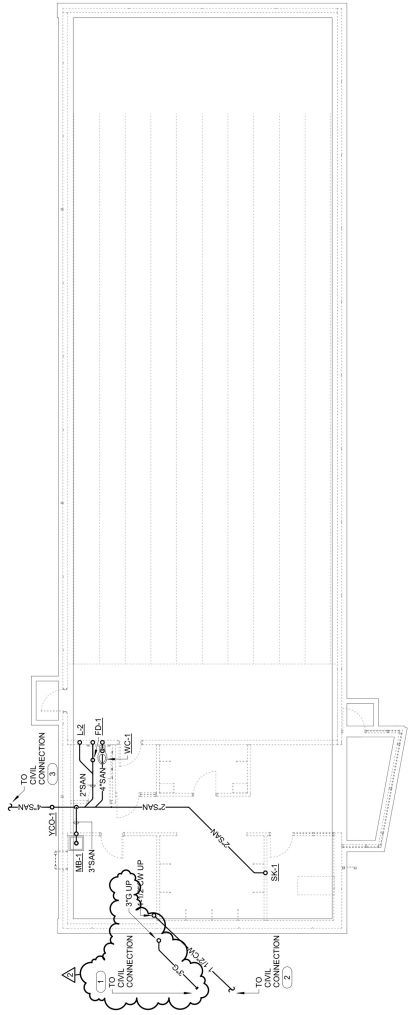


SHEET NOTES:

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND INSTALLATION RECOMMENDATIONS.
2. ALL PIPING SHALL BE CONCEALED, SURFACE UNLESS NOTED OTHERWISE.
3. REFER TO PLUMBING EXHIBIT SCHEDULE AND INFORMATION ON EXHIBIT TYPE AND PIPE SIZING.
4. ALL WORK SHOWN ON THIS SHEET SHALL BE COORDINATED WITH PROJECT ARCHITECTURAL.

REFERENCES:

1. CIVIL SITE UTILITY CONTRACTOR TO EXTEND EXISTING MAIN SERVICE CONNECTION INSTALLED TO NEW SITE SERVICE CONNECTION INSTALLED TO PROPERTY. REFER TO CIVIL SITE UTILITY CONTRACTOR DRAWINGS FOR CONNECTION REQUIREMENTS WITH CIVIL SITE UTILITY CONTRACTOR.
2. PIPING BELOW GRADE TO CIVIL SITE UTILITY CONTRACTOR. FIELD COORDINATE FINAL CONNECTION. REFER TO CIVIL SITE UTILITY CONTRACTOR DRAWINGS FOR CONNECTION REQUIREMENTS.
3. REFER TO PLUMBING EXHIBIT SCHEDULE MAIN PIPE TO CIVIL SANITARY CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR. REFER TO CIVIL SITE DRAWINGS FOR FINAL CONNECTION LOCATION.



FLOOR PLAN - UNDERFLOOR PLUMBING - FIRING RANGE -
ALTERNATE #04

1/8" = 1'-0"





- SHEET NOTES:**
1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND RECOMMENDATIONS ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 2. NOT ALL ARCHITECTURAL AND STRUCTURAL CONDITIONS WILL BE SHOWN. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO PROCEEDING WITH WORK.
 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) (NFPA 70).
 4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND INSURANCE COVERAGE. CONTRACTORS SHALL NOTIFY G.C. OF ALL AFFECTED AREAS PRIOR TO BIDDING.
 5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) (NFPA 70).
 6. REFER TO PLUMBING FIXTURE SCHEDULE AND INFORMATION AND PIPE SIZING.
 7. DO NOT RUN PIPING THRU, OVER, OR UNDER EXISTING STRUCTURAL MEMBERS WITHOUT CLEARANCE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.

- KEYNOTES:**
1. ALL VENT PIPING TO BE INSTALLED IN STRICT ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND RECOMMENDATIONS ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 2. ROUTE NEW 4" VENT THROUGH ROOF - FIELD COORDINATE FINAL LOCATION WITH ROOF CONTRACTOR. REQUIRED DISTANCE OF 18" OF FROM ALL PRESHAPE TRIMMER.
 3. LOCATE ON EXTERIOR WALL WITH GENERAL CONTRACTOR.
 4. CONTRACTOR TO COORDINATE ROUTING OF MAIN IN WALL CHASE WITH FIRE PROTECTION ENGINEER AND ALL OTHER TRADES.
 5. ROUTE NEW 4" SANITARY VENT PIPING BELOW GRADE TO OIL SAND SEPARATOR BY OTHERS.
 6. NEW BUILDING GAS METER - INSTALL ACCORDING TO ALL STANDARDS AND CODES. CONTRACTOR TO COORDINATE EXACT LOCATION WITH GAS UTILITY PROVIDER. PROVIDE ACCESSIBLE FOR INSTALLATION. PROVIDE SHUT OFF VALVE FOR NEW GAS PIPING INSIDE BUILDING. PROVIDE GAS PIPING WITH MINIMUM PIPE LENGTH AND 3/8" CHG WITH TOTAL LENGTH OF 10' FROM THE GAS UTILITY PROVIDER TO START OF WORK.
 7. ALL EXPOSED NATURAL GAS PIPING TO BE PAINTED TO MATCH EXISTING EXTERIOR.
 8. GAS SITE UTILITY CONTRACTOR TO EXTEND NEW 4" NATURAL GAS LINE BELOW GRADE TO METER ASSEMBLY AS SHOWN. VERIFY METER ASSEMBLY AS SHOWN. VERIFY METER ASSEMBLY AS SHOWN. VERIFY METER ASSEMBLY AS SHOWN. VERIFY METER ASSEMBLY AS SHOWN.
 9. EXTEND 2" DOMESTIC WATER PIPING BRANCH BELOW GRADE TO NEW SITE SERVICE. VERIFY EXISTING ELEVATION WITH CIVIL SITE ENGINEER. VERIFY EXISTING ELEVATION WITH CIVIL SITE ENGINEER. VERIFY EXISTING ELEVATION WITH CIVIL SITE ENGINEER.
 10. CONTRACTOR TO CENTER TRENCH DRAIN IN CHASE TO MATCH EXISTING EXTERIOR WALL AND STRUCTURAL DRAWINGS. AND SUB CONTRACTOR TO VERIFY EXISTING ELEVATION WITH CIVIL SITE ENGINEER. VERIFY EXISTING ELEVATION WITH CIVIL SITE ENGINEER. VERIFY EXISTING ELEVATION WITH CIVIL SITE ENGINEER.
 11. BRANCH LINE DOWN BELOW GRADE. CONTRACTOR TO VERIFY EXISTING ELEVATION WITH CIVIL SITE ENGINEER. VERIFY EXISTING ELEVATION WITH CIVIL SITE ENGINEER. VERIFY EXISTING ELEVATION WITH CIVIL SITE ENGINEER.





Boise & Hart - Engineer
No. 128117
8/01/2023

Gastinger Walker &
Architects | Interior Designers | Construction Managers
817 Wyandotte | Kansas City, Missouri 64105 | 816.421.8200
gastingerwalker.com

Project Number: 2023.151
Missouri Certificate of Authority: #P001321536

**OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION**

Project Name:
Troop A Headquarters,
MSHP

1900 NE Independence Ave.
Lee's Summit, MO 64086

PROJECT # R2219-01
SITE # 6018
FACILITY # 8136018019

REVISION: APPENDUM #1
DATE: 25 September 2023
REVISION: APPENDUM #4
DATE: 05 October 2023
REVISED BY: BPH
DATE: 01 August 2023
ISSUE DATE: 01 August 2023

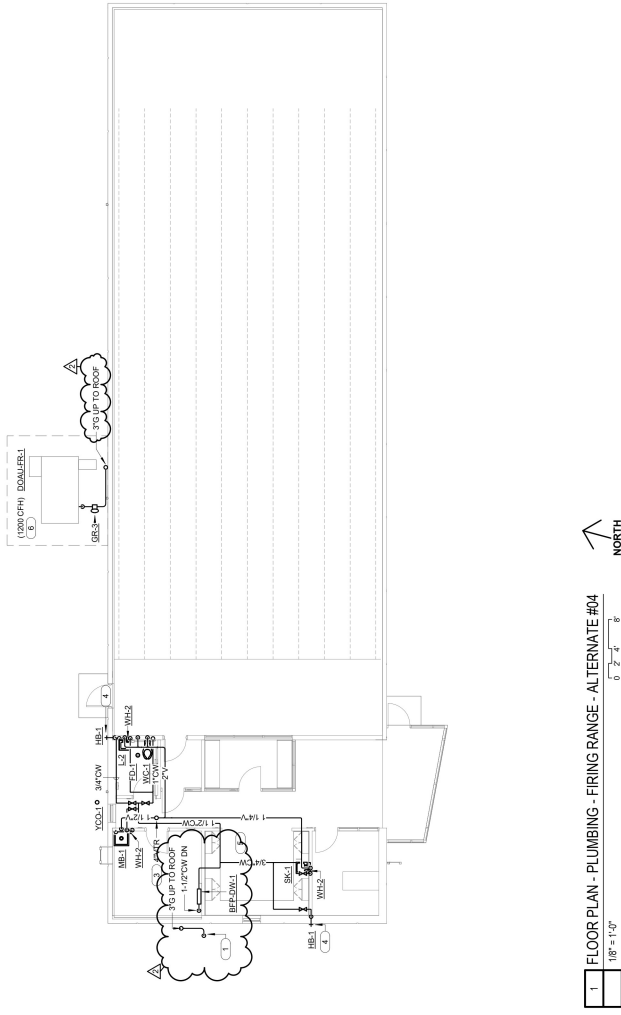
CADDWG FILE: P213.dwg
DRAWN BY: BPH
CHECKED BY: BPH
DESIGNED BY: GW&

SHEET TITLE:
FLOOR PLAN -
PLUMBING - FIRING
RANGE - ALTERNATE #04

SHEET NUMBER:
P213
SHEET 122 OF 202
08/01/2023

- SHEET NOTES:**
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS AND RECOMMENDATIONS.
 - NOT ALL ARCHITECTURAL AND STRUCTURAL INFORMATION IS SHOWN ON THIS SHEET. THE CONTRACTOR SHALL VERIFY ALL INFORMATION AND ENGINEER OF ANY CONFLICTS BEFORE PROCEEDING WITH WORK.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES BY HVAC UNIT(S) MANUFACTURER(S).
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND LOCATION OF FPODS, WALLS, AND FLOORS ASSOCIATED WITH THE PLUMBING AND FIRING RANGE. CONTRACTORS SHALL NOTIFY G.C. OF ALL AFFECTED AREAS PRIOR TO BIDDING.
 - ALL UNITS SHALL BE INSTALLED TO THE SAME LEVEL UNLESS OTHERWISE NOTED. UNLESS NOTED OTHERWISE.
 - REFER TO PLUMBING EXHAUST SCHEDULE AND INFORMATION AND PIPE SIZING.
 - DO NOT RUN PIPING THRU, OVER, OR UNDER ELECTRICAL, MECHANICAL, OR STRUCTURAL ELEMENTS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
 - ALL WORK SHOWN ON THIS SHEET SHALL BE CLASSIFIED AS PROJECT ALTERNATE #4.

- NOTES:**
1. CIVIL SITE UTILITY CONTRACTOR TO EXTEND ALL NEW SERVICE CONNECTIONS TO MEET ALL REQUIREMENTS WITH CIVIL SITE CONTRACTOR.
 2. NOT USED.
 3. ROUTE NEW 4" WENT THROUGH ROOF - FIELD STRUCTURE. ENSURE MINIMUM CODE CLEARANCE OF 10' FROM ALL FRESH AIR INTAKES.
 4. FIELD COORDINATE FINAL HOSE (HBS) LOCATION ON EXTERIOR WALL WITH GENERAL CONTRACTOR.
 5. ALL EXIST SPRINGS TO BE INSTALLED SUSPENDED BELOW THE BOTTOM OF THE EXISTING ROOF. SPRINGS SHALL BE INSTALLED DIRECTLY TO THE BOTTOM OF EXISTING ROOF. COORDINATE ROUTING OF FIELD WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 6. GRADE MOUNTED DEDICATED OUTSIDE AIR EXHAUST SHALL BE INSTALLED AT THE LOCATION OF GAS FIRING WITH MECHANICAL CONTRACTOR. PROVIDE EXHAUST FOR EXISTING AND CIVIL SITE CONTRACTOR. PROVIDE BRANCH PRESSURE REGULATOR.



1 FLOOR PLAN - PLUMBING - FIRING RANGE - ALTERNATE #04
1/8" = 1'-0"
0 2' 4' 8'





**OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION**

Project Name:
Tosco A Headquarters,
MSHP

1900 NE Independence Ave.
Lee's Summit, MO 64086

PROJECT # R2219-01
SITE # 6018
FACILITY # 8136018019

REVISION: APPENDUM #1
DATE: 25 September 2023
REVISION: APPENDUM #4
DATE: 05 October 2023
REVISION: Bld Documents
DATE: 01 August 2023
ISSUE DATE: 01 August 2023

CAD DWG FILE: P223.dwg
DATE PLOTTED:
DRAWN BY: BHH
DESIGNED BY: GW&

SHEET TITLE:

**ROOF PLAN - PLUMBING
- FIRING RANGE -
ALTERNATE #04**

SHEET NUMBER:

P223

SHEET 125 OF 202

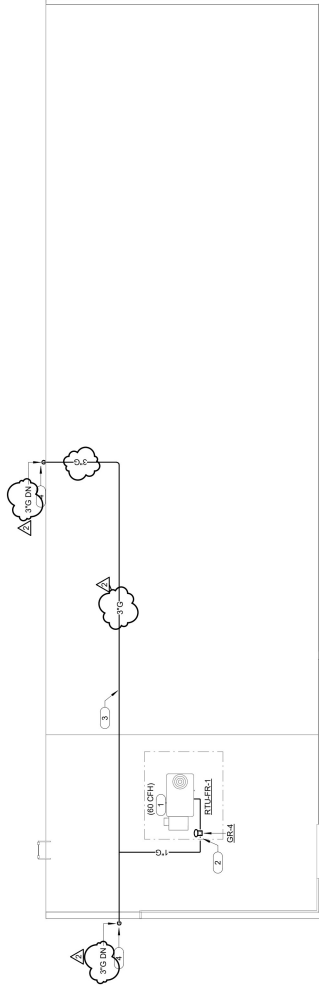
08/01/2023

SHEET NOTES:

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND RECOMMENDATIONS TO MANUFACTURERS.
2. NOT ALL ARCHITECTURAL AND STRUCTURAL DETAILS ARE SHOWN. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS BEFORE PROCEEDING WITH WORK.
3. ALL DIMENSIONS SHALL BE CLEARANCES BY TRADE (UNIT OR MANUFACTURERS).
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND ELEVATION OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THIS PROJECT. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS BEFORE PROCEEDING WITH WORK.
5. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING AND NEW ROOFING, INSULATION, FLASHING, GUTTERS, AND DOWNSPUTS PRIOR TO INSTALLATION AND PIPE SIZING.
7. ALL WORK SHOWN ON THE SHEET SHALL BE CLASSIFIED AS PROJECT ALTERNATE #4.

REVISIONS:

1. REVISION #1: ADDITION OF NATURAL GAS RISER TO THE UNIT SCHEDULE ON SHEET AM01 FOR LOAD INFORMATION.
2. EXTEND AND CONNECT NEW NATURAL GAS RISER TO THE UNIT SCHEDULE ON SHEET AM01. REFER TO THE UNIT SCHEDULE FOR FURTHER INFORMATION.
3. CONTRACTOR TO PAINT ALL ROOF-MOUNTED RISERS WITH A DURABLE, WEATHER-RESISTANT, MECHANICAL DETAIL BRACKET FOR ROOF-MOUNTED PIPING SUPPORT DETAIL.
4. NATURAL GAS RISER DOWN TO FLOOR MOUNTED ON EXTERIOR WALL TO MATCH EXISTING DETAIL. CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR.

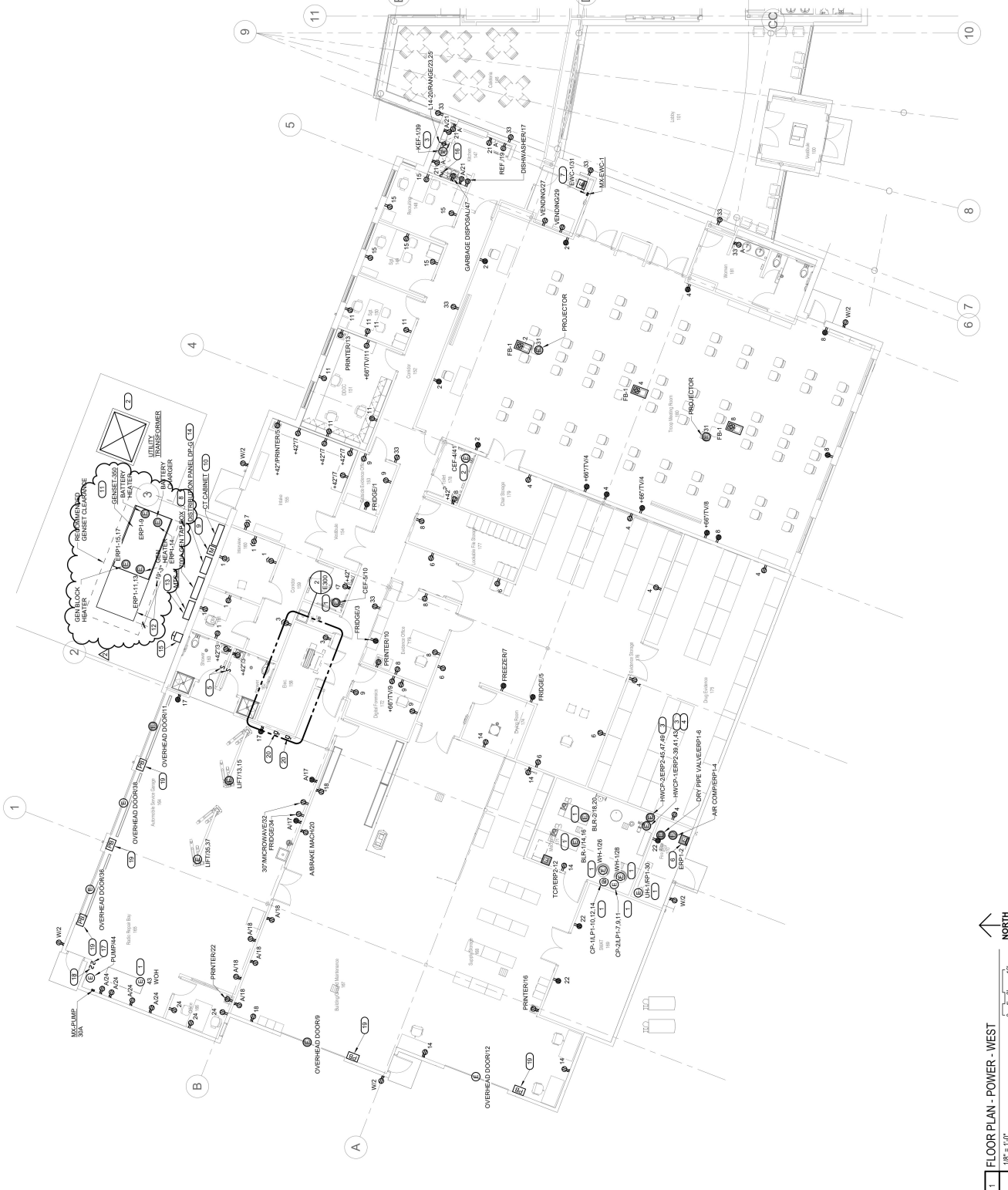


1 ROOF PLAN - PLUMBING - FIRING RANGE - ALTERNATE #04
1/8" = 1'-0" 6' 2' 4' 8'



- SHEET NOTES:**
1. REFER TO SHEET E200 FOR GENERAL NOTES AND SYMBOLS.
 2. THIS SHEET SHALL BE CONNECTED TO PANEL 1500WVA ENERGY TRANSFORMER.
 3. ALL EMERGENCY BRANCH POWER CIRCUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) UNLESS NOTED OTHERWISE.
 4. REFER TO SHEET E200 FOR PANEL SIZES.
 5. REFER TO SHEET E201 FOR ALTERNATE BIDS.
 6. REFER TO SHEET E202 FOR LOW VOLTAGE INFORMATION.

- REVISIONS:**
1. EQUIPMENT ASSOCIATED DISCONNECT SWITCH PROVIDED BY CONTRACTOR. PAD SHALL BE INSTALLED BY ELECRO AND FINISHED AND INSTALLED BY ELECRO. SEE SHEET E200 FOR DETAILS.
 2. EQUIPMENT ASSOCIATED DISCONNECT SWITCH PROVIDED BY ELECRO. SEE SHEET E200 FOR DETAILS.
 3. CONNECTIONS TO BE PROVIDED BY ELECRO. SEE SHEET E200 FOR DETAILS.
 4. CONNECTIONS TO BE PROVIDED BY ELECRO. SEE SHEET E200 FOR DETAILS.
 5. CONNECTIONS TO BE PROVIDED BY ELECRO. SEE SHEET E200 FOR DETAILS.
 6. DOUBLE INTERLOCK PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) UNLESS NOTED OTHERWISE.
 7. FOR MORE INFORMATION, REFER TO SHEET E200 FOR DETAILS.
 8. FINISH AND INSTALL 700 AMP GENERATOR QUICK CONNECT TAP BOX. TAP BOX SHALL ALTERNATE BETWEEN THE MAIN GENERATOR AND THE 700 AMP GENERATOR. TAP BOX SHALL ALSO INCLUDE A CIRCUIT BREAKER TO PROTECT THE MAIN GENERATOR FROM OVERLOADING.
 9. METAL UTILITIES PROVIDED BY UTILITY SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) UNLESS NOTED OTHERWISE.
 10. ALL METAL UTILITIES TO BE PROVIDED BY UTILITY AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) UNLESS NOTED OTHERWISE.
 11. FINISH AND INSTALL 1200 AMP MILBANK CT PANEL IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) UNLESS NOTED OTHERWISE.
 12. FINISH AND INSTALL 1200 AMP MILBANK CT PANEL IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) UNLESS NOTED OTHERWISE.
 13. MTS-115 IS A PART OF BASE BID AND WILL ALLOW FOR THE NORMAL DISTRIBUTION AND FUNCTIONALITY TO ALL TENANTS BETWEEN GENERATOR ROOMS. REFER TO SHEET E200 FOR MORE INFORMATION.
 14. FOR MORE INFORMATION, REFER TO SHEET E200 FOR DETAILS.
 15. BASE BID AND INSTALL EMERGENCY POWER OFF BUTTON IN NEMA-3R ENCLOSURE FOR THE GENERATOR ROOMS.
 16. FINISH AND INSTALL TOGGLE SWITCH TO CONTROL THE GENERATOR ROOMS.
 17. FINISH AND INSTALL TOGGLE SWITCH TO CONTROL THE GENERATOR ROOMS.
 18. DISCONNECT FOR GARAGE PUMP AND INSTALL TOGGLE SWITCH TO CONTROL OVERHEAD DOOR.
 19. DISCONNECT FOR GARAGE PUMP AND INSTALL TOGGLE SWITCH TO CONTROL OVERHEAD DOOR.
 20. NEMA 1 ENCLOSURE SERVING GARAGE LIFT.



1 FLOOR PLAN - POWER - WEST
1/8" = 1'0"
6' 3" 4" 10"