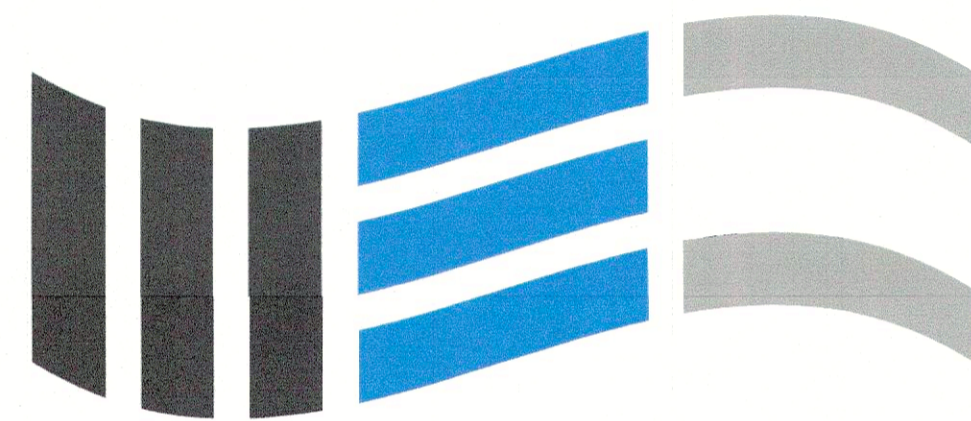


# REPLACE WATER DISTRIBUTION SYSTEM

## ALGOA CORRECTIONAL CENTER

### JEFFERSON CITY , MISSOURI

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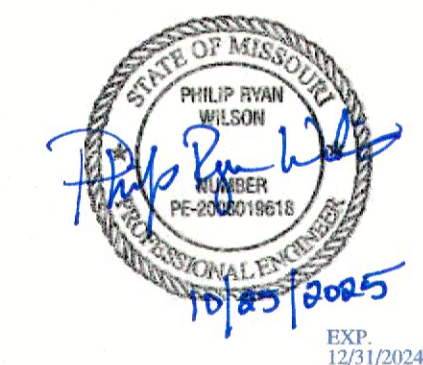


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E-2006023253  
S-2012009395  
EXPIRES DEC. 31, 2024



OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR  
DEPARTMENT OF CORRECTIONS

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNER: McCLURE ENGINEERING COMPANY  
PHILIP R. WILSON, P.E.  
PWILSON@MCCLUREVISION.COM

PROJECT NUMBER: C2403-01

SITE NUMBER: 7006

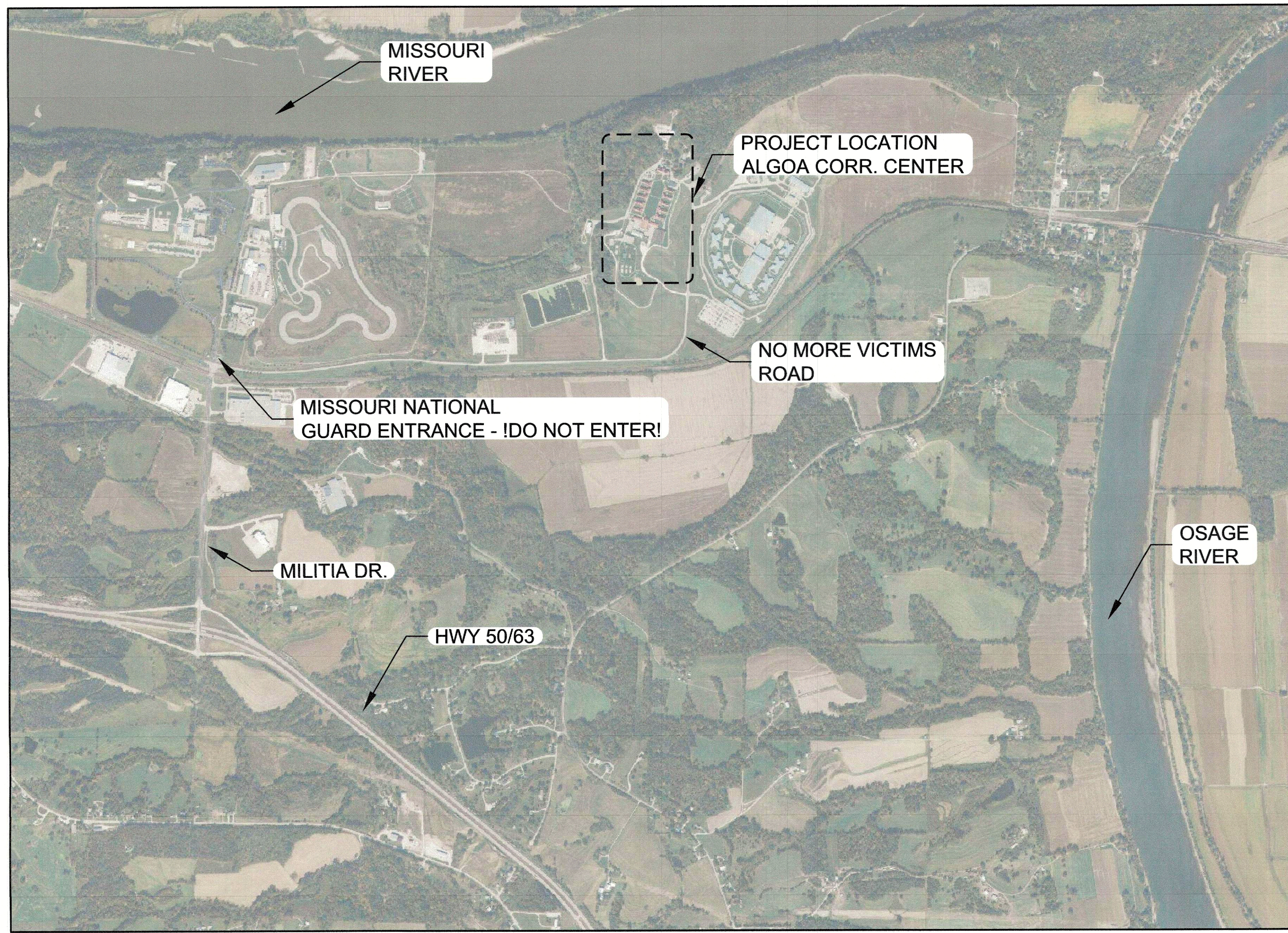
ASSET NUMBER: 9327006056

ISSUE DATE: 10/25/2024

SHEET NUMBER:

# G-001

1 OF 13 SHEETS

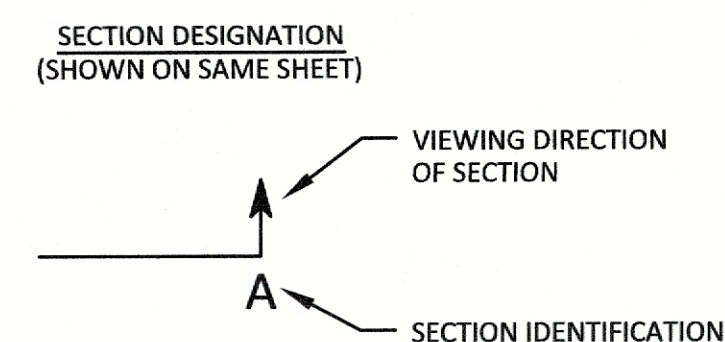


**SITE LOCATION**

**CIVIL ABBREVIATIONS**

A.C.C.	ASPHALT CEMENT CONCRETE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
ASSY.	ASSEMBLY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BM	BENCH MARK
BOT	BOTTOM OF SLOPE
C	CUT
CP	CONTROL POINT
CL	CENTERLINE
DIP	DUCTILE IRON PIPE
EP	EDGE OF PAVEMENT
F	FILL
FES	FLARED END SECTION
FL	FLOWLINE
HMA	HOT MIX ASPHALT
MAX.	MAXIMUM
MIN.	MINIMUM
S	OFFSET
P.C.C.	PORTLAND CEMENT CONCRETE
PSI	PRESSURE PER SQUARE INCH
R.O.W.	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
R/R	RAILROAD
SQ.FT.	SQUARE FEET
SY	SQUARE YARD
TC	TOP OF CURB
T/S	TOP OF SLAB
TOS	TOP OF SLOPE
TYP.	TYPICAL
UPRR	UNION PACIFIC RAILROAD

**CIVIL LEGENDS**



**SYMBOL LEGEND**

EXISTING	PROPOSED	
⊙	⊙	SANITARY SEWER MANHOLE
⊖	⊖	SANITARY SEWER CLEANOUT
⊗	⊗	AIR RELEASE MANHOLE/DRAIN MANHOLE
⊕	⊕	STORM SEWER MANHOLE
⊘	⊘	STORM SEWER CLEANOUT
⊙	⊙	STORM SEWER INTAKE
⊖	⊖	STORM SEWER BEEHIVE INTAKE
⊗	⊗	FLARED END SECTION
⊕	⊕	FIRE HYDRANT
⊙	⊙	WATER VALVE
⊖	⊖	WATER VALVE MANHOLE
⊗	⊗	WATER METER MANHOLE
⊕	⊕	YARD HYDRANT
⊙	⊙	ELECTRIC MANHOLE / VAULT
⊖	⊖	ELECTRIC PEDESTAL / TRANSFORMER
⊗	⊗	OUTDOOR ELECTRIC POWER OUTLET
⊕	⊕	POWER POLE
⊙	⊙	POWER POLE w/ STREET LIGHT
⊖	⊖	STREET LIGHT POLE
⊗	⊗	GUY WIRE
⊕	⊕	TRAFFIC SIGNAL
⊙	⊙	TRAFFIC SIGNAL BOX
⊖	⊖	TRAFFIC SIGNAL MANHOLE / VAULT
⊗	⊗	RAILROAD CROSSING SIGNAL
⊕	⊕	TELEPHONE MANHOLE / VAULT
⊙	⊙	TELEPHONE PEDESTAL
⊖	⊖	CABLE TV MANHOLE / VAULT
⊗	⊗	CABLE TV PEDESTAL
⊕	⊕	GAS VALVE
⊙	⊙	IRON PIN FOUND/PROPERTY PIN
⊖	⊖	BOLLARD (BUMPER POST)
⊗	⊗	MISCELLANEOUS SIGN
⊕	⊕	MAILBOX
⊙	⊙	WELL
⊖	⊖	DECIDUOUS TREE
⊗	⊗	EVERGREEN TREE
⊕	⊕	SHRUB OR BUSH
⊙	⊙	TREE OR SHRUB LINE
⊖	⊖	STUMP
⊗	⊗	SANITARY SERVICE
⊕	⊕	SOIL BORINGS
⊙	⊙	FLAG POLE
⊖	⊖	SLOPE INDICATORS
⊗	⊗	CONTROL POINT
⊕	⊕	BENCH MARK
⊙	⊙	IRON PIN SET
⊖	⊖	PROPERTY PIN
⊗	⊗	CURB STOP
⊕	⊕	HOUSE NUMBER SIGN
⊙	⊙	SATELLITE DISH
⊖	⊖	SECTION CORNER

**LINETYPE LEGEND**

EXISTING	PROPOSED	
— 8"SS —	— 8"SS —	SANITARY SEWER MAIN
— SS —	— SS —	SANITARY SEWER SERVICE
— FM —	— FM —	SANITARY SEWER FORCE MAIN
— 8"ST —	— 8"ST —	STORM SEWER MAIN OR CULVERT
— —	— —	SECONDARY STORM SEWER MAIN
— —	— —	SECONDARY STORM SEWER SERVICE
— 8"W —	— 8"W —	WATER MAIN
— W —	— W —	WATER SERVICE
— UE —	— UE —	UNDERGROUND ELECTRIC
— OHE —	— OHE —	OVERHEAD ELECTRIC
— T —	— T —	UNDERGROUND TELEPHONE
— FO —	— FO —	UNDERGROUND FIBER OPTIC
— TV —	— TV —	UNDERGROUND CABLE TV
— G —	— G —	GAS MAIN OR SERVICE
---	---	CONTOUR LINES INTERMEDIATE
---	---	CONTOUR LINES INDEX
---	---	PROPERTY LINE / LOT LINE
---	---	SECTION LINE
---	---	EASEMENT
---	---	GUARD RAIL
---	---	FIELD FENCE
---	---	CHAIN LINK FENCE
---	---	WOODEN FENCE
---	---	ROAD CENTERLINE
---	---	CONSTRUCTION LIMITS
---	---	WATERWAY FLOWLINE
---	---	TOP OF SLOPE
---	---	BOTTOM OF SLOPE
---	---	SILT FENCE
---	---	FEATURE REMOVAL
---	---	UTILITY TO BE ABANDONED

**GENERAL NOTES:**

- STATE OFFICE OF ADMINISTRATION DESIGN SPECIFICATIONS AND THE PROJECT SPECIFICATIONS SHALL GOVERN.
- THE CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES AROUND THE PROJECT LOCATION PRIOR TO EXCAVATION OR CONSTRUCTION.
- ALL MISSOURI DEPARTMENT OF CORRECTIONS PROTOCOLS FOR SAFETY AND SECURITY MUST BE MAINTAINED AT ALL TIMES, NO EXCEPTIONS.

**SITE NOTES:**

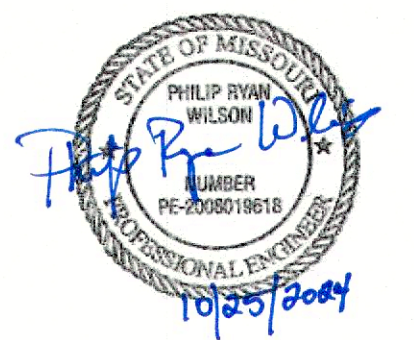
- THESE PLANS WERE GENERATED FROM AVAILABLE RECORDS OF EXISTING DESIGN DOCUMENTS AND FIELD SURVEYS CONDUCTED FOR THIS PROJECT. FIELD VERIFICATION OF ALL ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE PLANS SHOULD BE MADE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. MCCLURE ENGINEERING COMPANY DOES NOT IMPLY OR GUARANTEE ACCURACY OF THE EXISTING INFORMATION REPRESENTED ON THE PLANS.
- NOTIFY ALL UTILITY COMPANIES KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION.
- MISSOURI UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION STATUTE (RSMO CHAPTER 319) REQUIRES NOTICE TO MISSOURI ONE CALL 1-800-DIG-RITE (OR 811) NOT LESS THAN 72 HOURS OR MORE THAN 10 WORKING DAYS PRIOR TO BEGINNING EXCAVATION, EXCLUDING WEEKENDS AND HOLIDAYS. SEE WWW.MO1CALL.COM FOR ADDITIONAL DETAILS.
- THE MEANS AND METHODS OF SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION OF THE OWNER'S REPRESENTATIVE.
- PROTECT EXISTING UTILITIES DURING CONSTRUCTION.
- MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
- SITE CLEAN-UP SHALL BE PERFORMED ON AN DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, ETC. SHALL BE KEPT CLEAN AT ALL TIMES.
- ALL OPEN EXCAVATIONS SHALL BE PROTECTED. ORANGE CONSTRUCTION FENCE AS A MINIMUM.
- REPLACE ANY PROPERTY MONUMENTS REMOVED, DISTURBED OR DESTROYED DURING CONSTRUCTION. MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF MISSOURI.
- CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS PER SPECIFICATION 024113.
- ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE COMPLETION OF THIS WORK.
- REPAIR OR REPLACE EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC.) TO REMAIN, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY MCCLURE ENGINEERING COMPANY AT THE CONTRACTOR'S EXPENSE. WORK DONE CONTRARY TO THE DIRECTION OF MCCLURE ENGINEERING COMPANY, WORK DONE BEYOND THE PROJECT LIMITS OR ANY EXTRA WORK DONE WITHOUT AUTHORIZATION WILL NOT BE PAID FOR.

**MISSOURI DEPARTMENT OF NATURAL RESOURCES**

**LAND DISTURBANCE NOTE:**

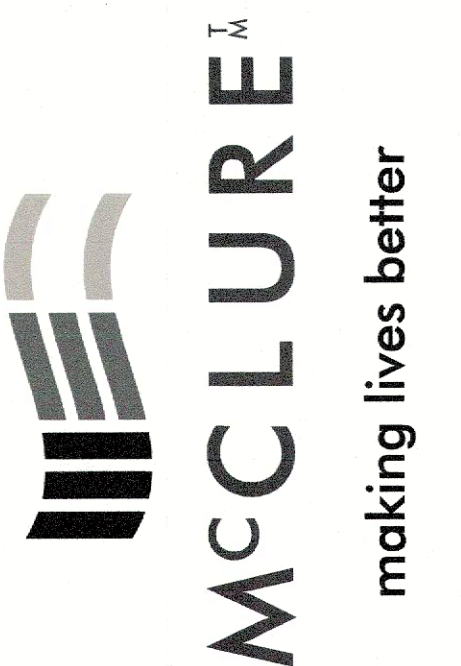
- THIS PROJECT DISTURBS LESS THAN ONE ACRE OF LAND, A STATE OF MISSOURI PERMIT IS NOT REQUIRED. HOWEVER, ALL LAND DISTURBANCE REQUIREMENTS AND BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED.

SHEET INDEX		
NUMBER	DRAWING NUMBER	DESCRIPTION
1	G-001	Cover Sheet
2	G-002	Location Map, Legend & General Notes
3	G-003	Construction Staging & Access Control
4	G-004	SWPPP Notes
5	C-001	New Water Main Site Plan
6	C-002	Softener Building Existing Conditions
7	C-003	Softener Building Existing Conditions
8	C-004	Softener Building Demolition Plan
9	C-005	Softener Building Demolition Plan
10	C-006	Softener Building Proposed Conditions
11	C-007	Softener Building Proposed Conditions
12	D-001	Trench Details
13	D-002	Piping Details



PHILIP R. WILSON, P.E.  
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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN & CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

REPLACE WATER  
DISTRIBUTION SYSTEM  
ALGOA CORRECTIONAL  
CENTER  
8501 NO MORE VICTIMS RD.  
JEFFERSON CITY, MO 65101

PROJECT NO. C2403-01  
SITE NO. 7006  
ASSET NO. 9327006056

REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/25/2024

CAD DWG FILE: C2403-01-AL-G-NL-02  
DRAWN BY: JMB  
CHECKED BY: JDS  
DESIGNED BY: PRW

SHEET TITLE:  
**LOCATION MAP,  
LEGEND &  
GENERAL NOTES**

SHEET NUMBER:

**G-002**



CONTRACTOR PARKING TO BE DETERMINED DURING PRE-CONSTRUCTION CONFERENCE PARKING LIMITED IN THIS LOT

WATER SOFTENING BUILDING

ADMINISTRATIVE OFFICES AND CONTRACTOR CHECK-IN

PERSONNEL ACCESS

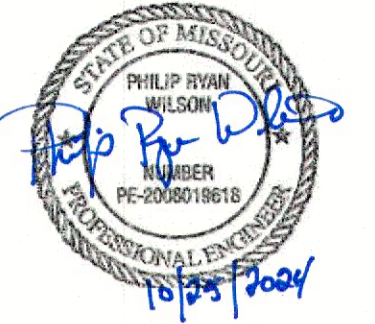


**ACCESS CONTROL PLAN**

**ACCESS NOTES:**

- ① STATE OFFICE OF ADMINISTRATION DESIGN SPECIFICATIONS AND THE PROJECT SPECIFICATIONS SHALL GOVERN.
- ② ALL MISSOURI DEPARTMENT OF CORRECTIONS PROTOCOLS FOR SAFETY AND SECURITY MUST BE MAINTAINED AT ALL TIMES, NO EXCEPTIONS.
- ③ WORK IS WITHIN THE SECURED AREA OF THE CORRECTIONAL CENTER. NO WORK CAN BE PERFORMED WITHOUT DEPARTMENT OF CORRECTIONS PERSONNEL PRESENT.
- ④ SCHEDULE OF ACCESS MUST BE PROVIDED 5 WORKING DAYS PRIOR TO THE DESIGNATED DEPARTMENT OF CORRECTIONS POINT OF CONTACT. VARIATIONS IN SCHEDULE MUST BE PROVIDED IN 5 WORKING DAYS.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



PHILIP R. WILSON, P.E.  
PE-2008019618 EXP. 12/31/2024

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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/25/2024

CAD DWG FILE: C2403-01-AL-G-GNL-03  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PRW

SHEET TITLE:  
**CONSTRUCTION  
STAGING &  
ACCESS CONTROL**

SHEET NUMBER:

**G-003**

3 OF 13 SHEETS  
10/25/2024

CERTIFICATION STATEMENTS

**STORM WATER POLLUTION PREVENTION PLAN**

This plan is a part of the Storm Water Pollution Prevention Plan for the project described below.

PROJECT INFORMATION:

Site: Algoa Correctional Center  
City: Jefferson City, Missouri

Location: Algoa Correctional Center, 8501 No More Victims Road  
County: Cole

**STORM WATER POLLUTION PLAN**

The following plan is established and incorporated in the project to aid the contractor in the placement of temporary erosion control systems and to provide a storm sewer water pollution prevention plan.

The purpose of this plan is to minimize erosion within the construction site and to limit sediments from leaving the construction site by utilizing proper temporary erosion control systems and providing ground cover within a reasonable amount of time.

Certain erosion control facilities shall be installed by the contractor at the beginning of construction. Other items shall be installed by the contractor as deemed necessary, on a case-by-case situation, depending on the contractor's sequence of activities, time of year and expected weather conditions.

The contractor shall install permanent erosion control systems and seeding within a time frame specified herein. Therefore minimizing the amount of area susceptible to erosion and reducing the amount of temporary seeding. Contractor shall further determine if any temporary erosion control systems shown in the plan can be deleted and if any additional temporary erosion control systems which are not included in this plan shall be added.

SITE DESCRIPTION.

- 1. Construction includes tree removal, earth excavation, water lines, various pavement items, and other miscellaneous items of construction.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES, WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE.

- 1. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as perimeter erosion control barriers; temporary ditch checks; siltation basins, temporary seeding, etc.
- 2. Topsoil removal and stockpiling.
- 3. Excavation and embankment at the job site to achieve the proposed site contours.
- 4. Pavement work.
- 5. Final grading, seeding, and other miscellaneous items.

Placement of permanent erosion control such as riprapped ditches, erosion control blanket, seeding, etc.

AREA OF CONSTRUCTION SITE:

- 1. The total area of the construction is less than one acre that will be disturbed by excavation, grading, and other activities.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

- 1. Project plan documents, specifications, hydraulic reports, and plan drawings indicate drainage patterns and approximate slopes anticipated after grading activities were utilized for the proposed placement of the temporary erosion control systems.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

- 1. The names of receiving water(s) is tributary to the Missouri River.
- 2. Location of any sensitive areas (i.e. wetlands, habitats)

CONTROLS-EROSION CONTROLS AND SEDIMENT CONTROL:

- 1. DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION  
The drawings and specifications should ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices include temporary seeding, permanent seeding, mulching, protection of trees, preservation of mature vegetation, and other appropriate measures. Stabilization measures shall be initiated immediately in portions of the site where construction activities have temporarily or permanently ceased, and completed in no more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased. Allowances to the seven (7) day completion period for temporary and permanent stabilization may be made due to weather and equipment malfunctions. The allowances shall be documented in the SWPPP.
  - a. Areas of existing vegetation; wood and grasslands; outside the proposed construction limits shall be identified for preserving and shall be protected from construction activities.
  - b. Dead, diseased, or unsuitable vegetation within the site shall be removed, along with required tree removal.
  - c. As soon as reasonable access is available to all locations where water drains away from the project, temporary ditch checks, inlet and pipe protection, and perimeter erosion barrier shall be installed as called out in this plan.
  - d. Bare and sparsely vegetated ground in high erodable areas shall be temporarily seeded at the beginning of construction where not construction activities are expected within seven days.
  - e. Immediately after tree removal or stripping is completed, areas which are highly erodable shall be temporarily seeded when no construction activities are expected within seven days.
  - f. At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), temporary ditch checks or silt fencing will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the site.

Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be completed.

- 2. DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION

During construction, areas outside the construction limits as outlined previously herein shall be protected. The contractor shall not use this area for staging (except as described on the plans) and parking of vehicles or construction equipment, storage of materials, or other construction related activities.

- a. Within the construction limits, areas which may be susceptible to erosion, shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
- b. Earth stockpiles shall be temporarily seeded immediately if they are to remain unused for more than fourteen (14) days.
- c. As construction proceeds, the contractor shall institute the following:
  - i. Place temporary erosion control facilities at locations shown on the plans.
  - ii. Temporarily seed erodable bare earth on a weekly basis to minimize the amount of erodable surface area within the contract limits.
  - iii. Construct ditches and provide temporary erosion control systems including ditch lining and ditch stops.
  - iv. Temporarily divert water around culvert locations.

- v. Build necessary embankments at culvert locations and then excavate and place culvert.
- vi. Continue building up the embankment to the proposed grade while at the same time, placing permanent erosion control such as riprap ditch lining and conducting final shaping to the slopes.
- d. Excavated areas and embankment shall be permanently seeded immediately after final grading. If not, they shall be temporarily seeded immediately if no construction activity in the area is planned for 7 days.
- e. Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or other pollutant in accordance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
- f. The contractor shall inspect the project daily during construction activities. Inspection shall also be done weekly and after heavy rains.
- g. Sediment collected during construction of the various temporary erosion control systems shall be disposed of on the site on a regular basis.
- h. The temporary erosion control systems shall be removed after use is no longer or no longer functioning.

3. DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING

- i. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established.
- j. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded.

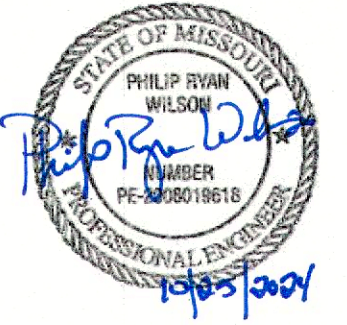
MAINTENANCE AFTER CONSTRUCTION

- 1. Construction is complete after acceptance by the Owner. Maintenance up to this date will be by the Contractor.

MISCELLANEOUS

- 1. Temporary ditch checks shall be located at every 1.5 ft. fall/rise in ditch grade.
- 2. Temporary erosion control seeding shall be applied at a rate of 100 lbs/acres.
- 3. Straw bales, hay bales, perimeter erosion barrier and silt fences will not be permitted for permanent ditch checks. Ditch checks shall be composed of aggregate, silt panels, rolled excelsior, geotextile web grids and/or other equal materials.
- 4. Sediment collected during construction by the various temporary erosion control systems shall be disposed on the site on a regular basis.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



PHILIP R. WILSON, P.E.  
PE-2008019618 EXP. 12/31/2024

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ISSUE DATE: 10/25/2024

CAD DWG FILE: C2403-01-AL-G-GNL-04  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PRW

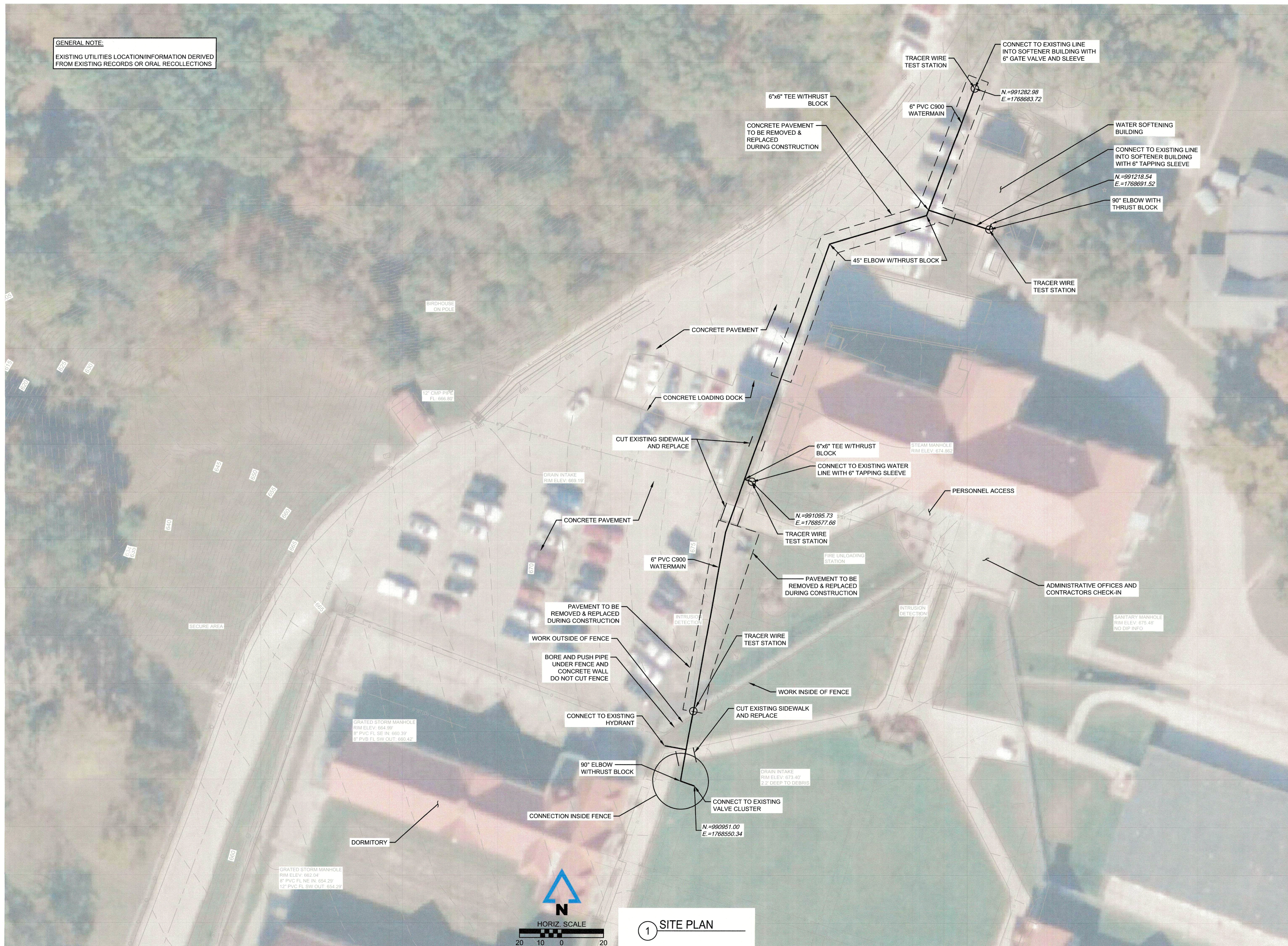
SHEET TITLE:  
SWPPP NOTES

SHEET NUMBER:

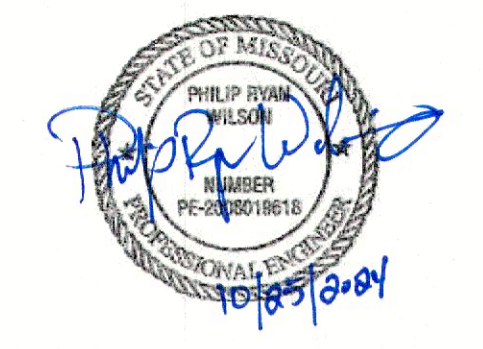
G-004

4 OF 13 SHEETS  
10/25/2024

**GENERAL NOTE:**  
EXISTING UTILITIES LOCATION INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECollections



STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



PHILIP R. WILSON, P.E.  
PE-2008019618 EXP. 12/31/2024

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DATE: \_\_\_\_\_  
ISSUE DATE: 10/25/2024

CAD DWG FILE: C2403-01-AL-C-SITE-01  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PRW

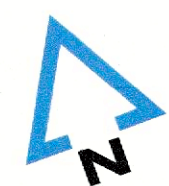
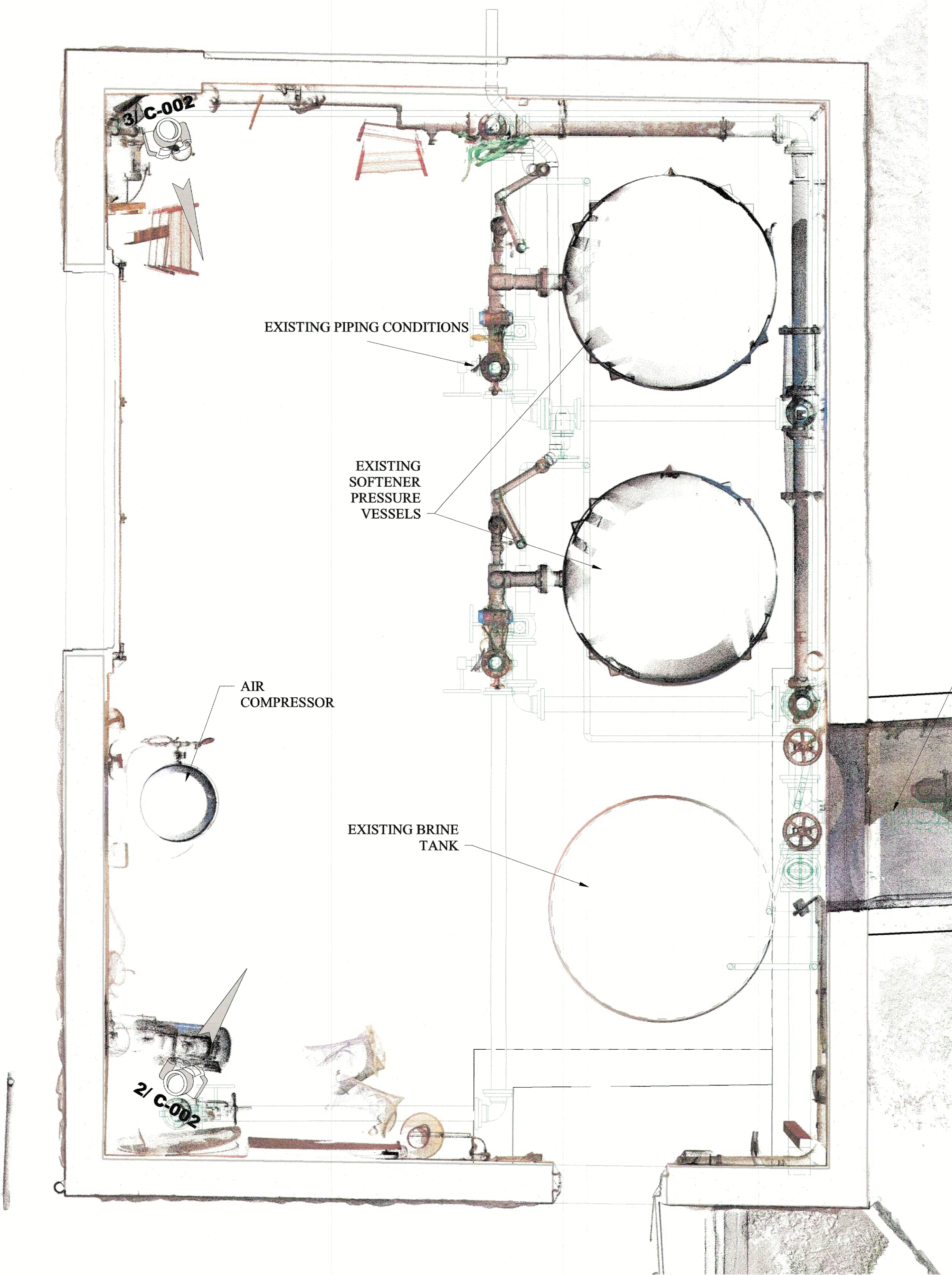
SHEET TITLE:  
**NEW WATER  
MAIN SITE PLAN**

SHEET NUMBER:

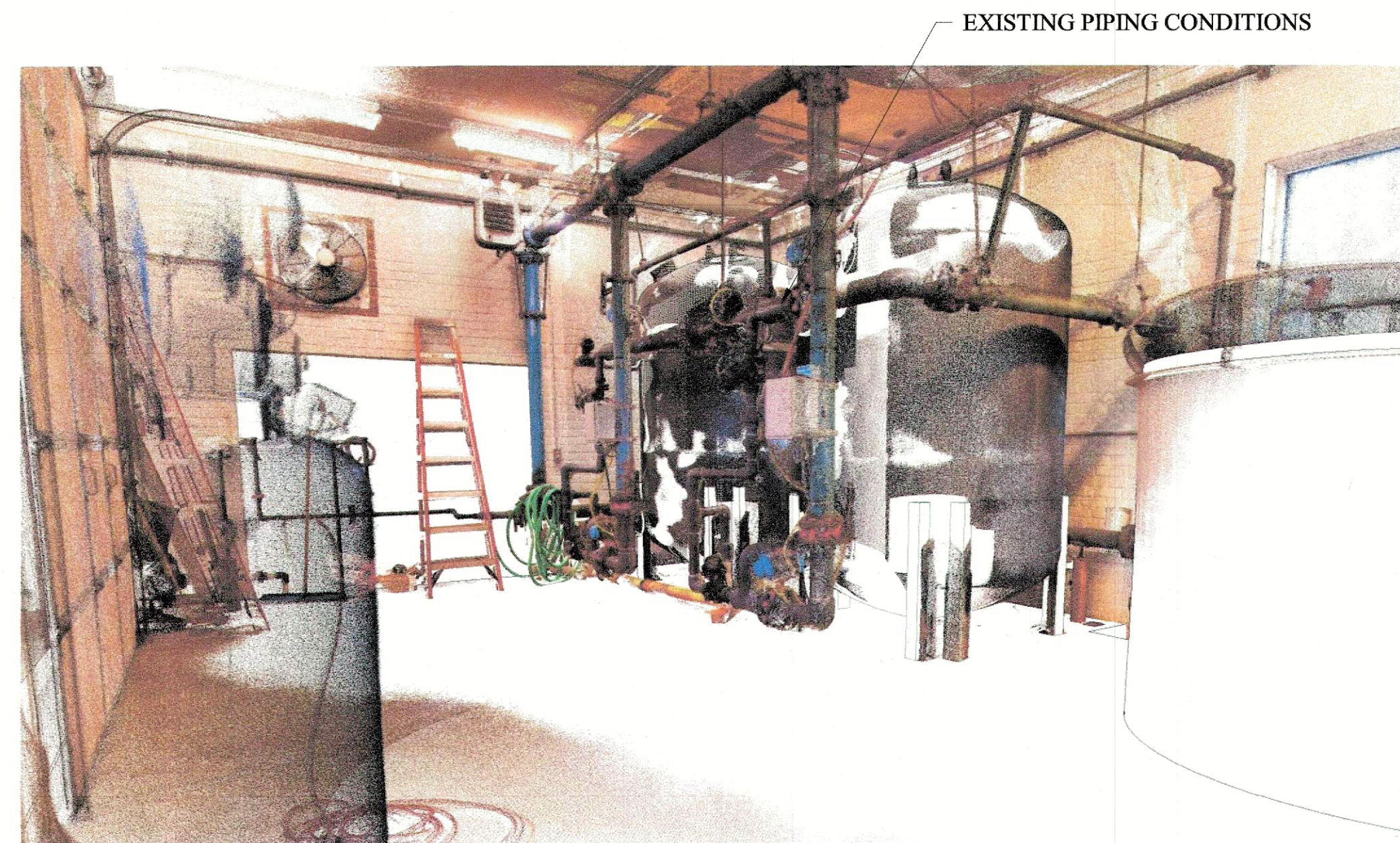
**C-001**

5 OF 13 SHEETS  
10/25/2024

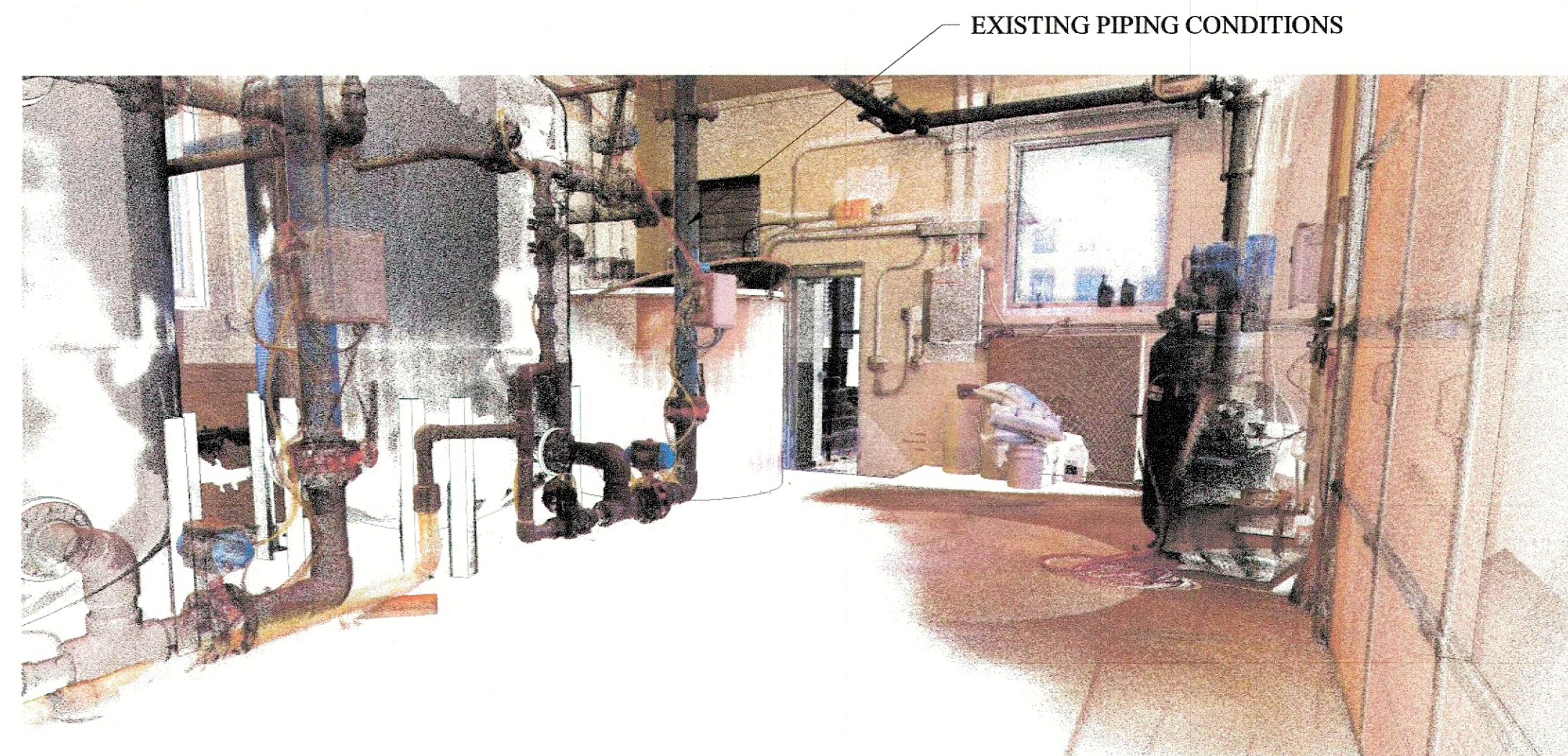
1 SITE PLAN



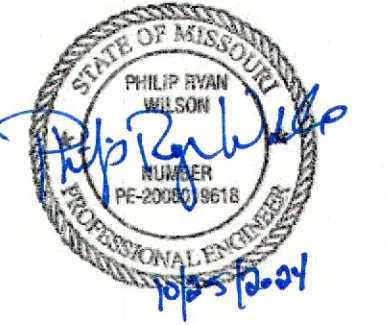
**1** EXISTING LAYOUT PLAN  
SCALE : 1/2" = 1'-0" (FULL SIZE 24"x36")

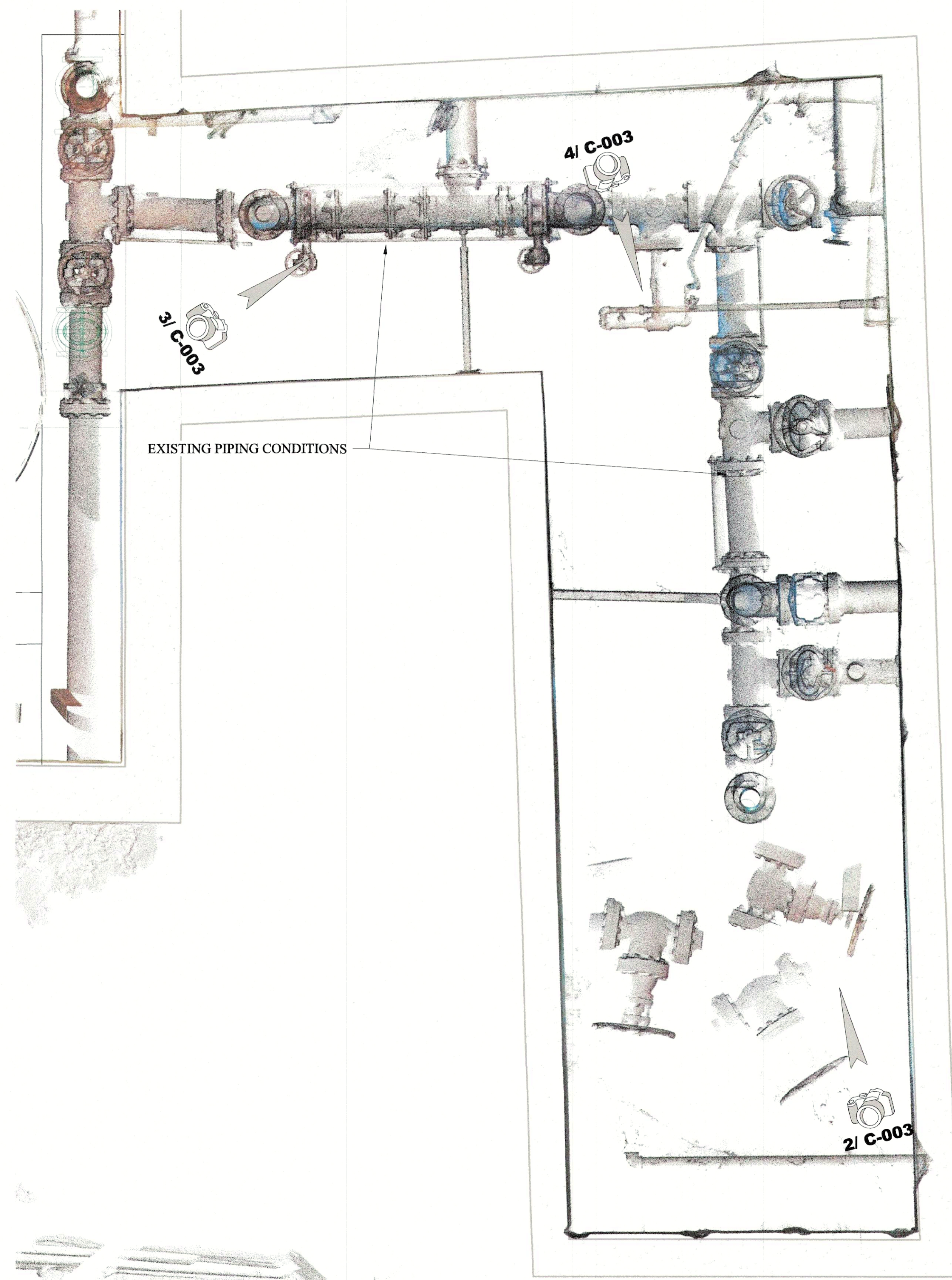


**2** EXISTING PERSPECTIVE VIEW (POINT CLOUD)  
NOT TO SCALE



**3** EXISTING PERSPECTIVE VIEW (POINT CLOUD)  
NOT TO SCALE



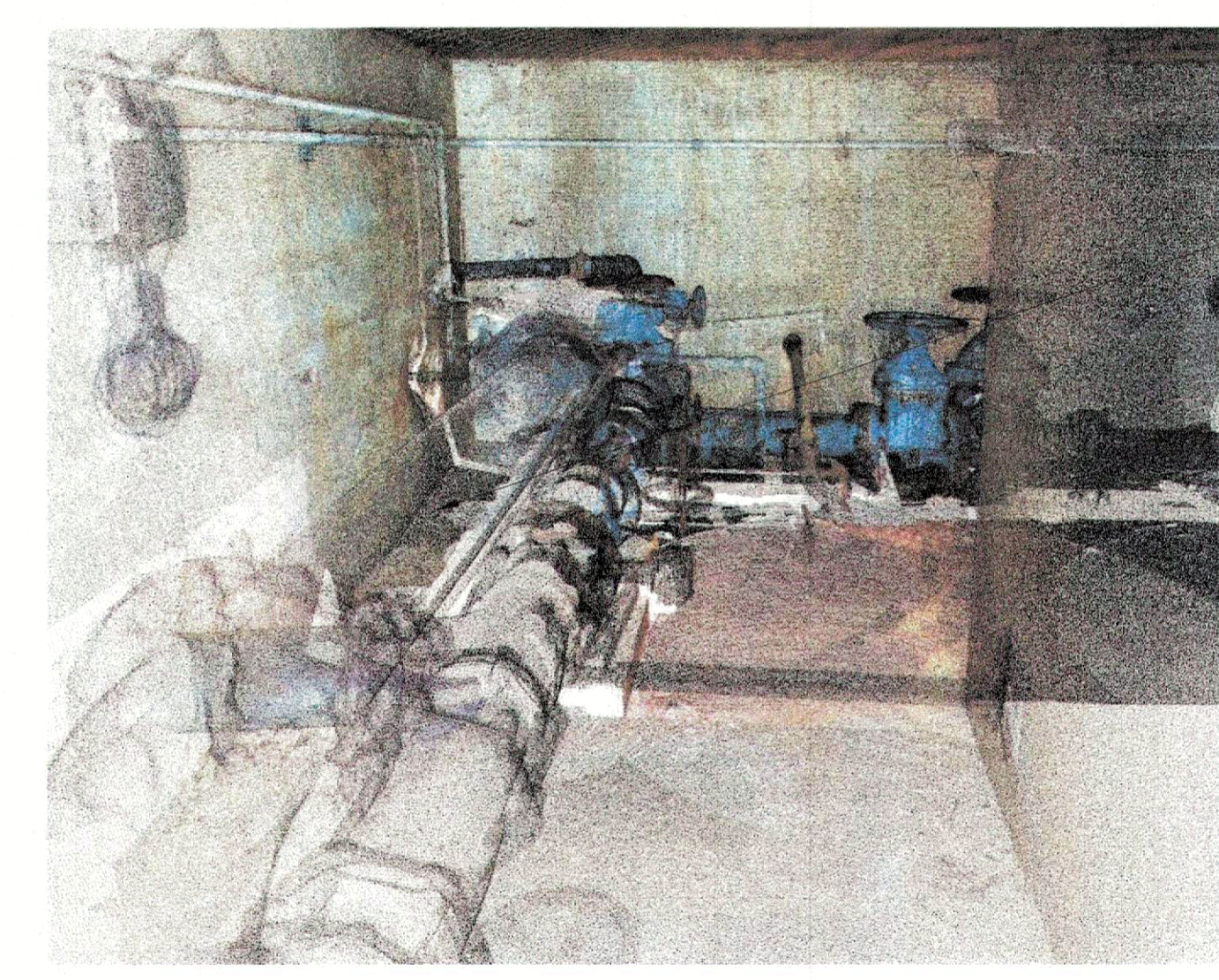


**1 PIPING PLAN**  
NOT TO SCALE

NOTE:  
THE HEIGHT OF THE VAULT IS 4' - 9"



**2 PERSPECTIVE VIEW**  
NOT TO SCALE

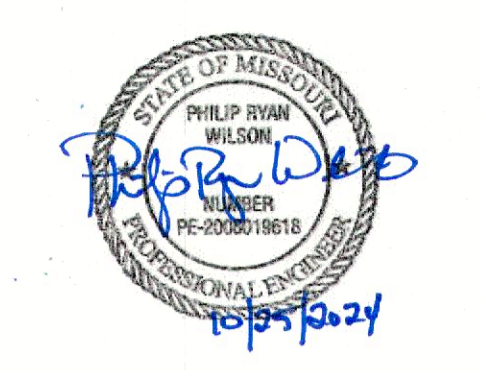


**3 PERSPECTIVE VIEW**  
NOT TO SCALE



**4 PERSPECTIVE VIEW**  
NOT TO SCALE

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



PHILIP R. WILSON, P.E.  
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DEPARTMENT OF  
CORRECTIONS

REPLACE WATER  
DISTRIBUTION SYSTEM

ALGOA CORRECTIONAL  
CENTER  
8501 NO MORE VICTIMS RD.  
JEFFERSON CITY, MO 65101

PROJECT NO. C2403-01  
SITE NO. 7006  
ASSET NO. 9327006056

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 10/25/2024

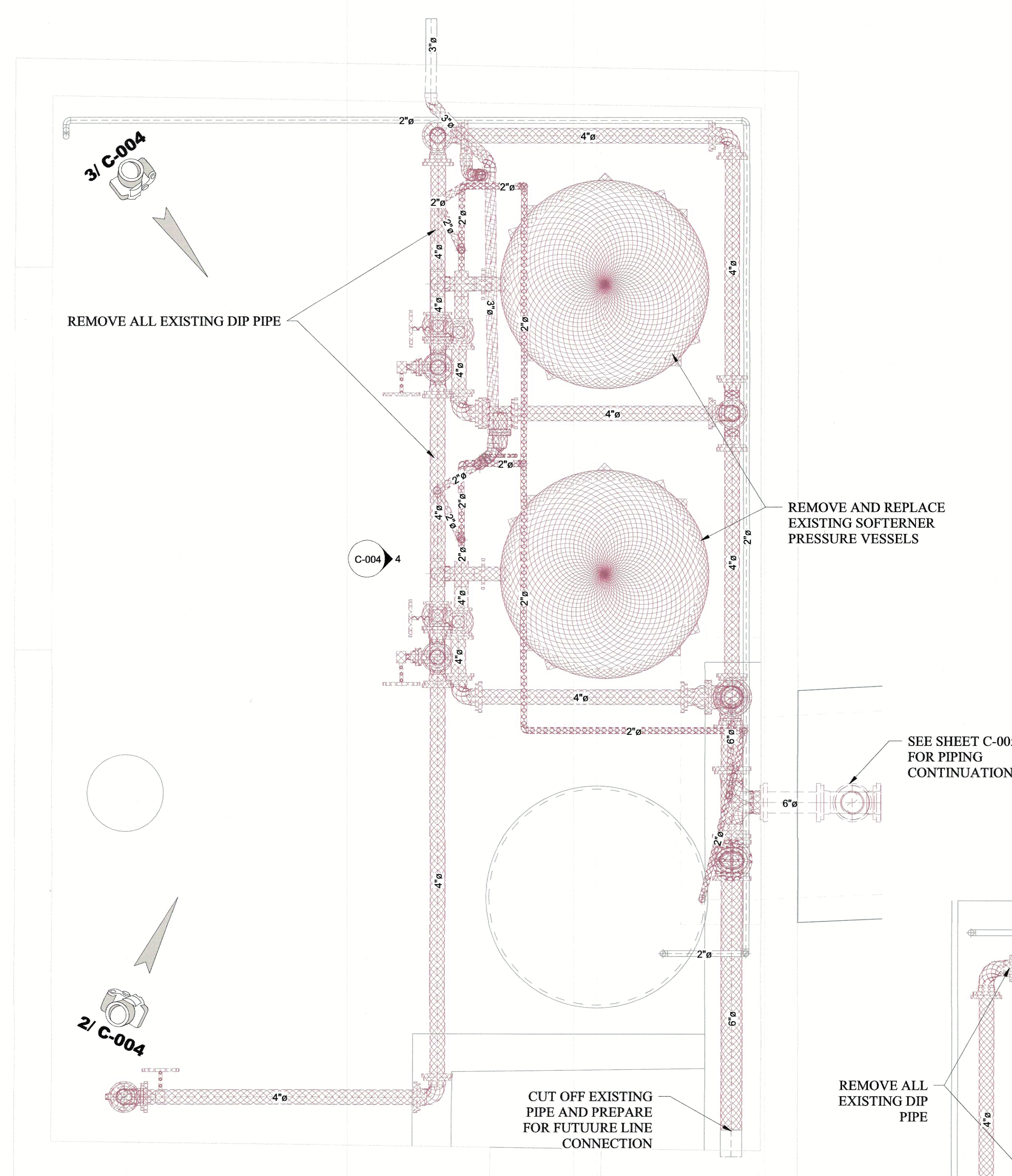
CAD DWG FILE: C2403-01-AL-C-EXC-03  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PW

SHEET TITLE:  
SOFTENER  
BUILDING  
EXISTING  
CONDITIONS

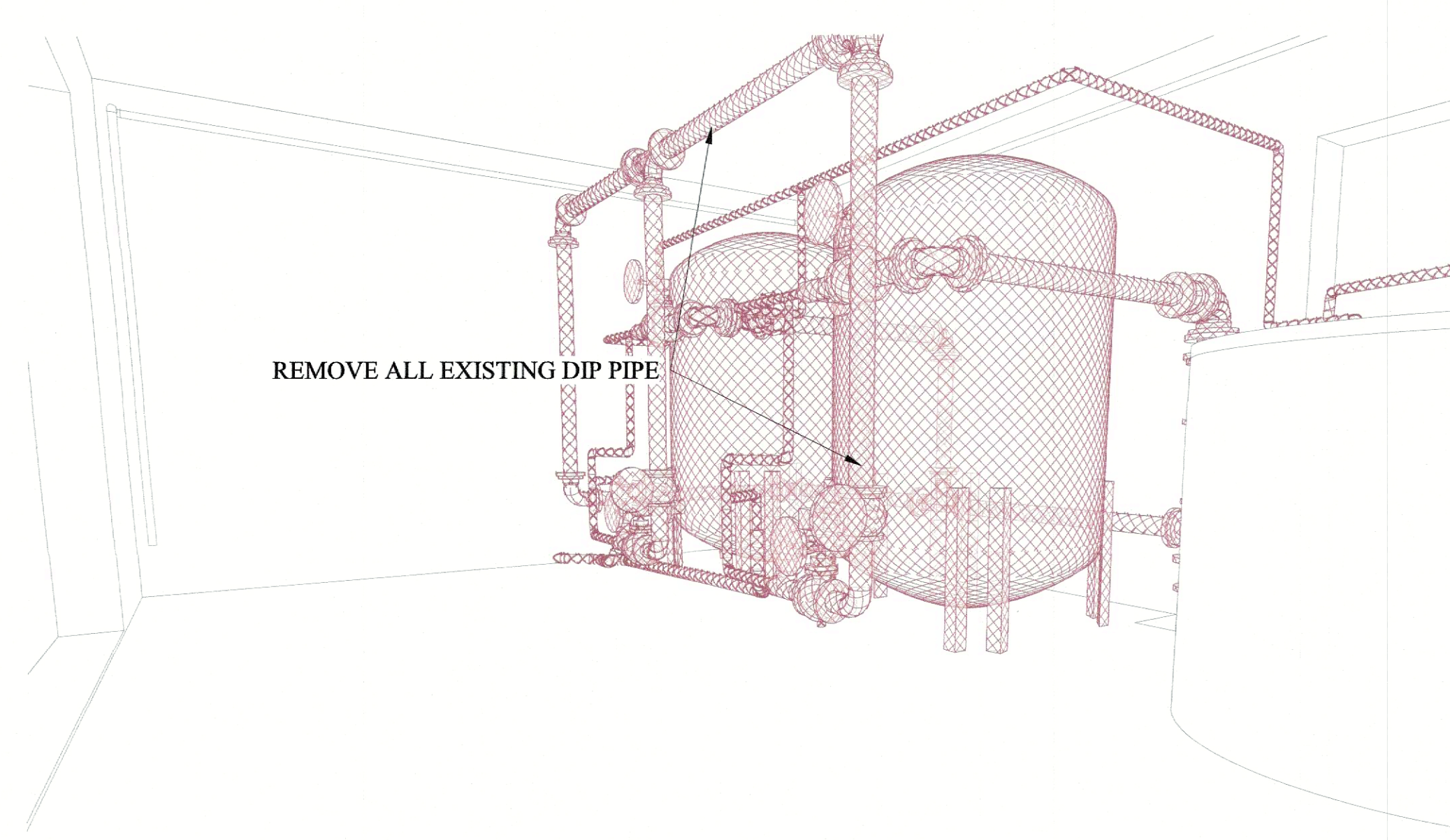
SHEET NUMBER:

**C-003**

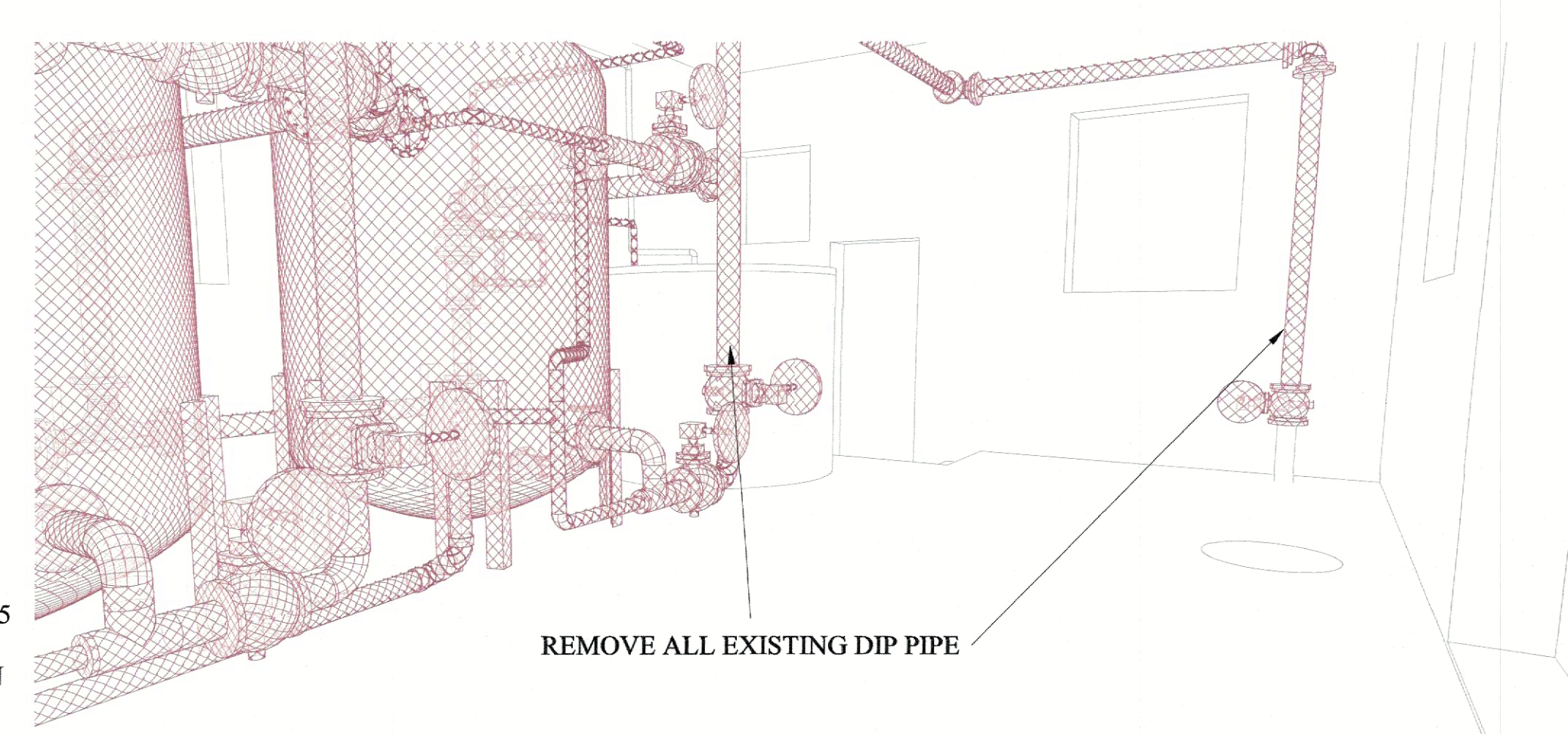
7 OF 13 SHEETS  
10/25/2024



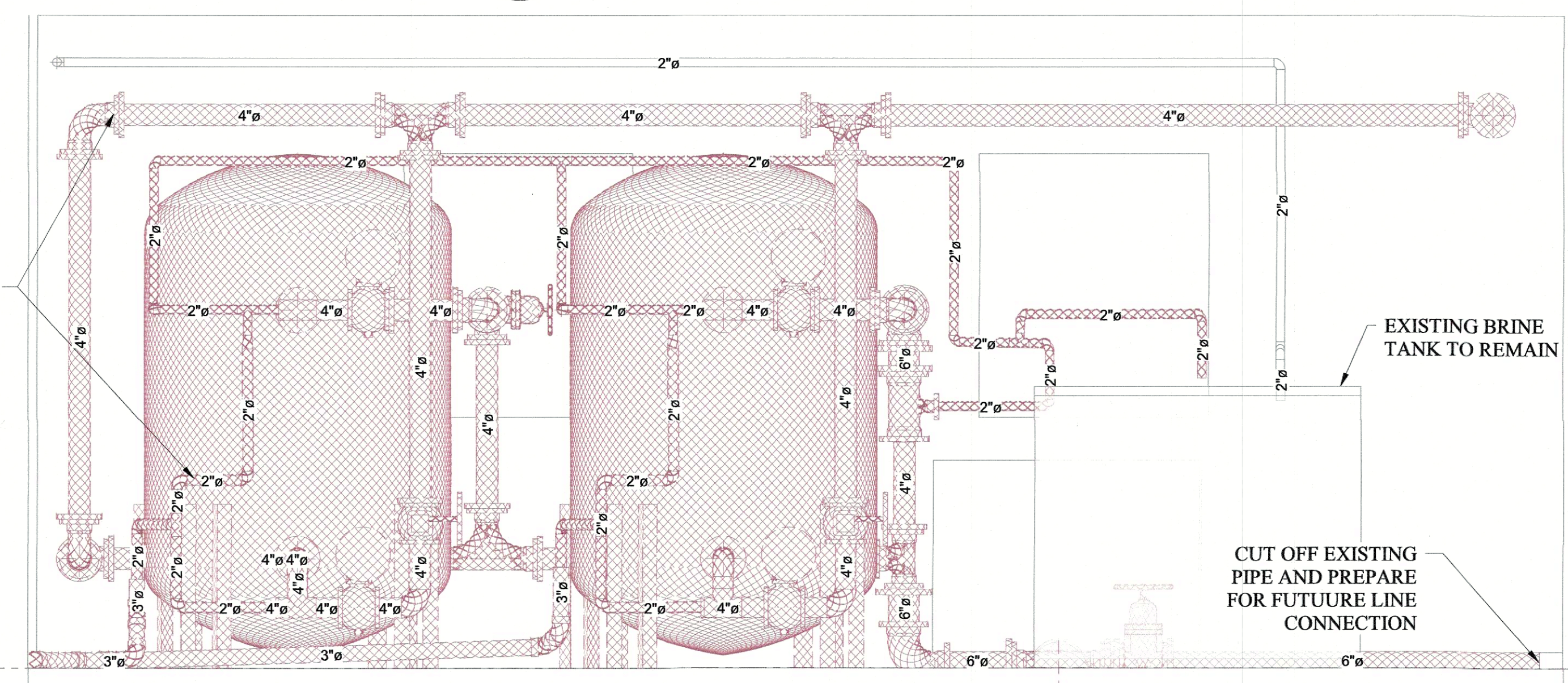
**1 PIPING PLAN DEMO**  
SCALE: 1/2" = 1'-0" (FULL SIZE 24"x36")



**2 ISOMETRIC PIPE DEMO VIEW**  
NOT TO SCALE

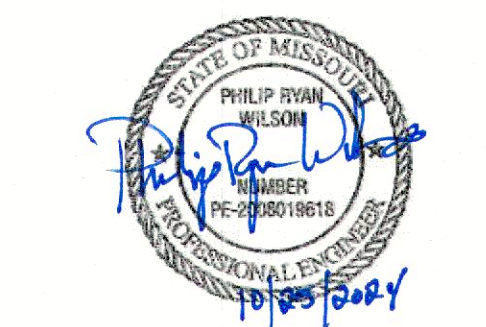


**3 ISOMETRIC PIPE DEMO VIEW**  
NOT TO SCALE



**4 DEMO ELEVATION VIEW**  
NOT TO SCALE

NOTE:  
REMOVE ALL PIPING AND  
EQUIPMENT SHOWN IN RED



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DISTRIBUTION SYSTEM

ALGOA CORRECTIONAL  
CENTER  
8501 NO MORE VICTIMS RD.  
JEFFERSON CITY, MO 65101

PROJECT NO. C2403-01  
SITE NO. 7006  
ASSET NO. 9327006056

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/25/2024

CAD DWG FILE: C2403-01-AL-C-DEM-04  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PW

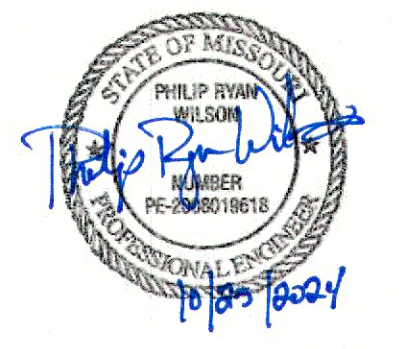
SHEET TITLE:  
SOFTENER  
BUILDING  
DEMOLITION PLAN

SHEET NUMBER:  
**C-004**  
8 OF 13 SHEETS  
10/25/2024



NOTE:  
REMOVE ALL PIPING AND  
EQUIPMENT SHOWN IN RED

STATE OF MISSOURI  
MICHAEL L. PARSON,  
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SITE NO. 7006  
ASSET NO. 9327006056

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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 10/25/2024

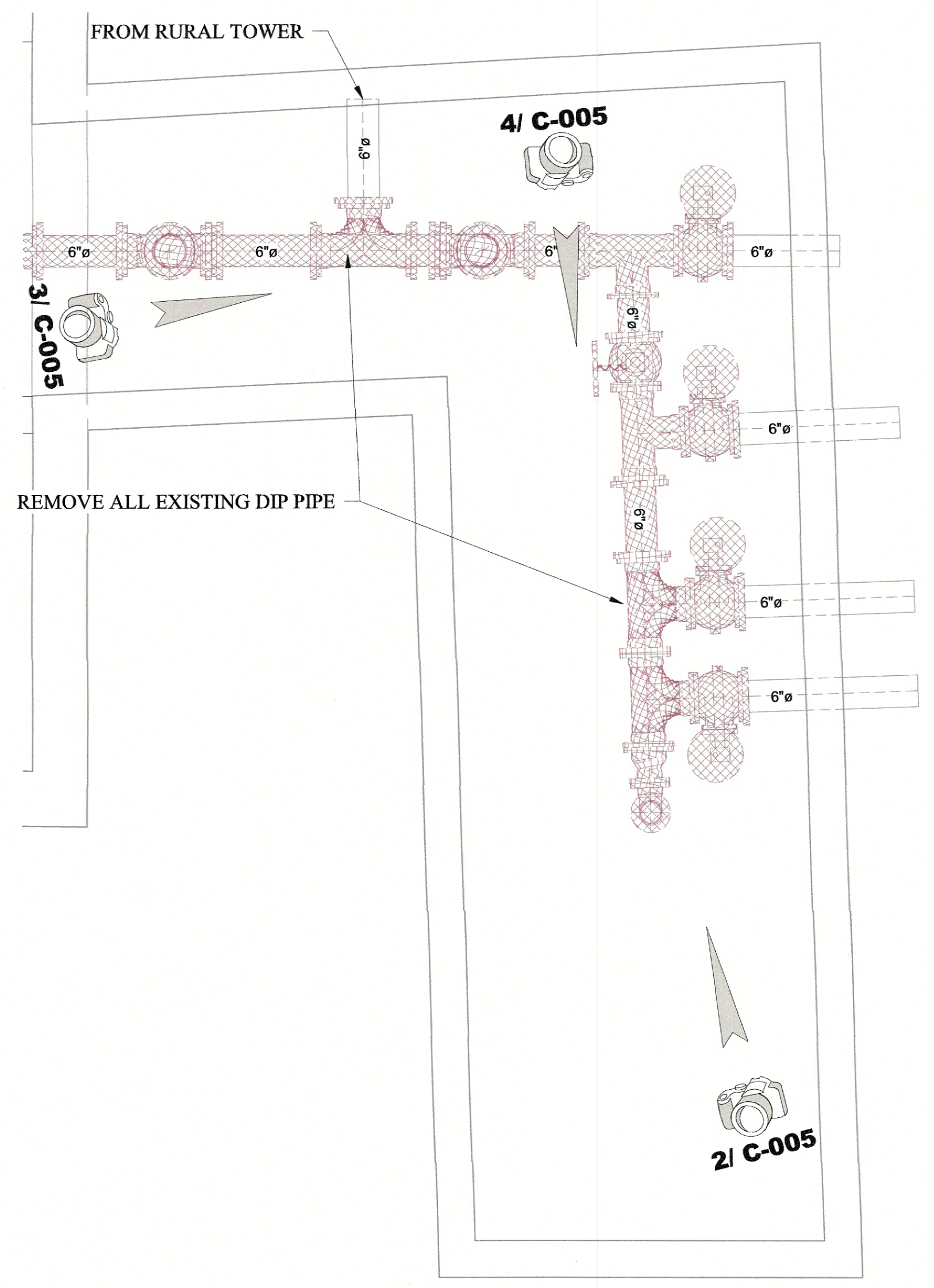
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FILE: C2403-01-AL-C-DEM-05  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PW

SHEET TITLE:  
SOFTENER  
BUILDING  
DEMOLITION PLAN

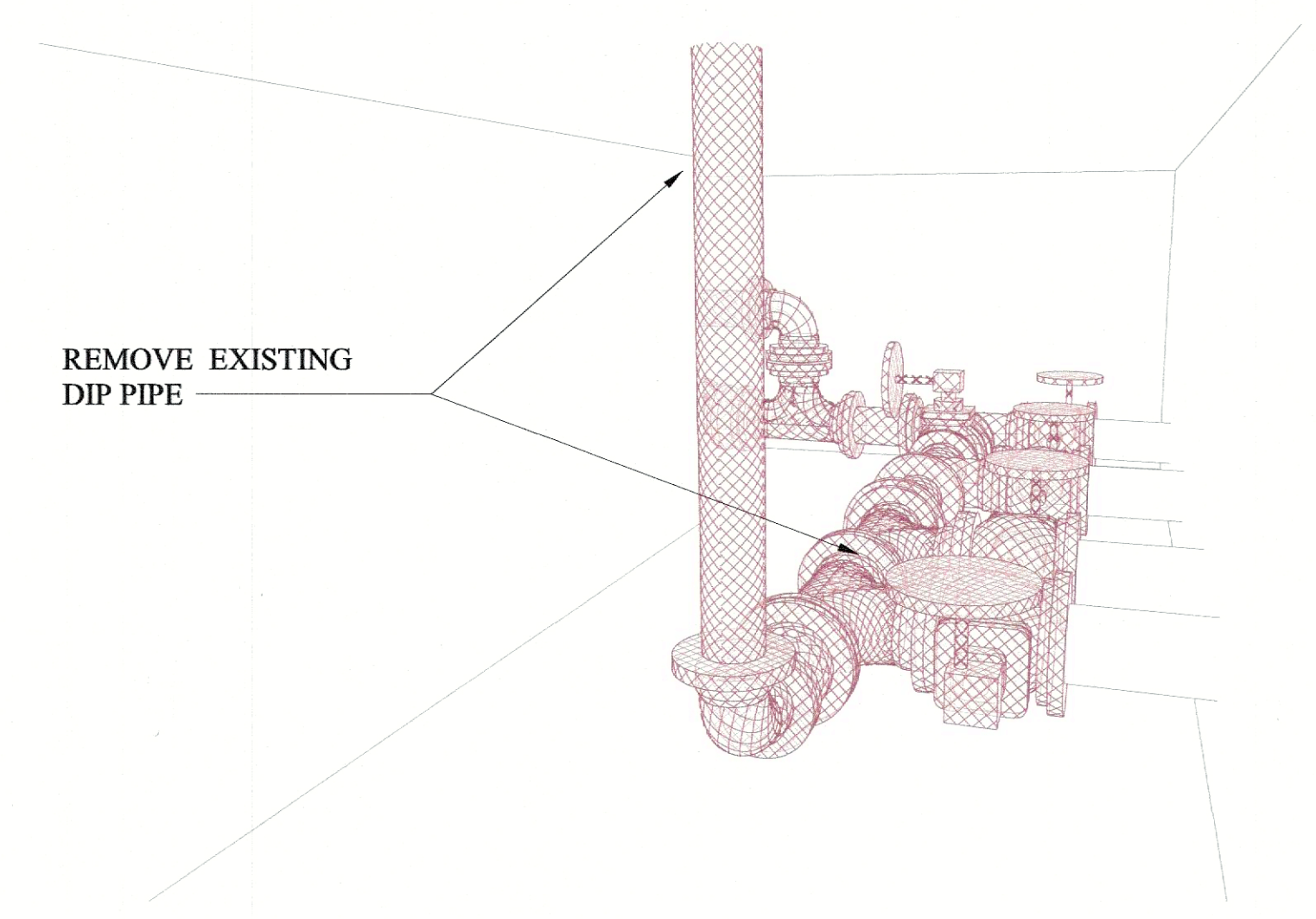
SHEET NUMBER:

**C-005**

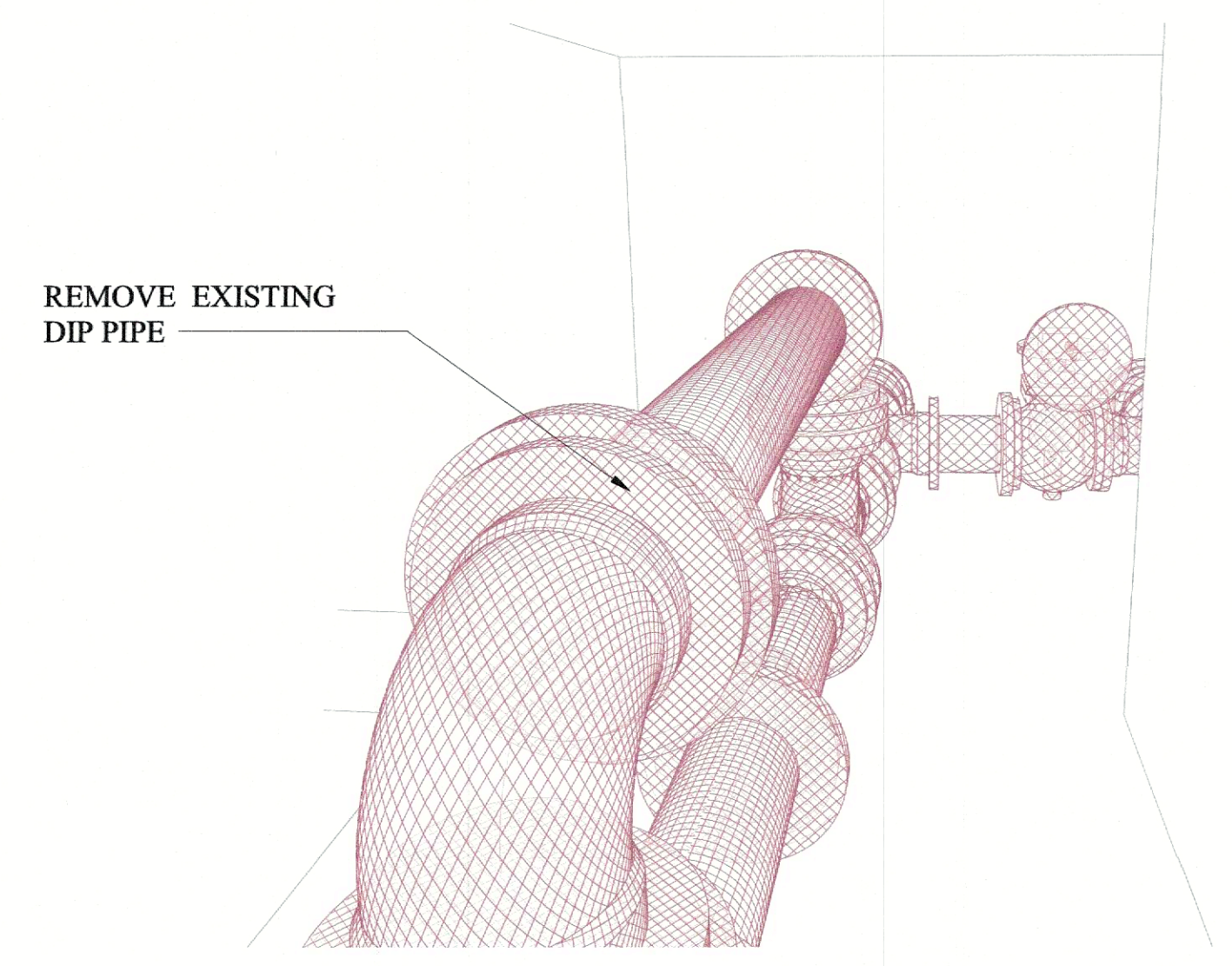
9 OF 13 SHEETS  
10/25/2024



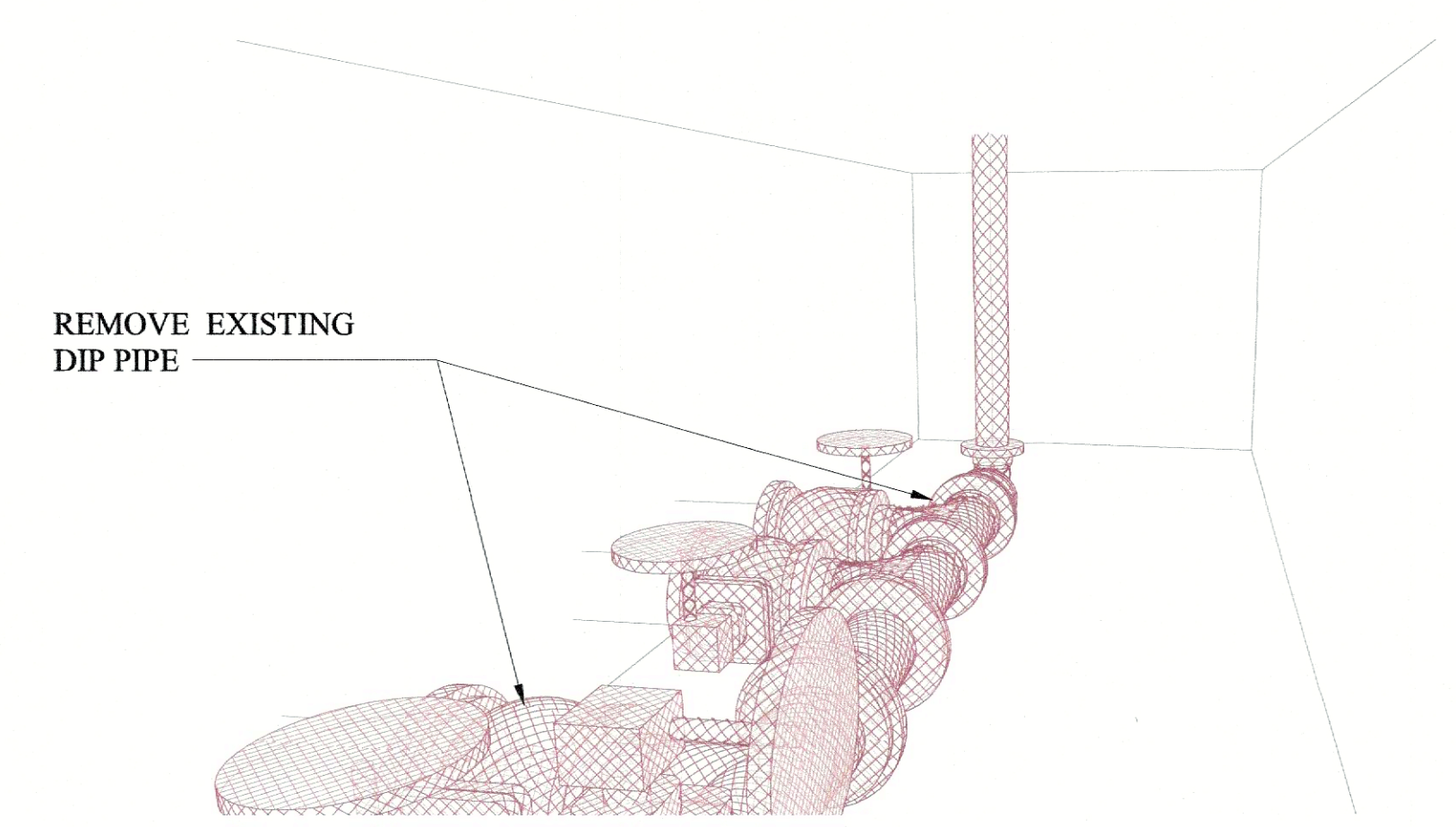
**1 CORRIDOR DEMOLITION PLAN**  
SCALE: 1/2" = 1'-0" (FULL SIZE 24"x36")



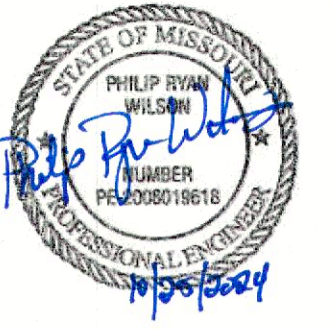
**2 PERSPECTIVE VIEW**  
NOT TO SCALE



**3 PERSPECTIVE VIEW**  
NOT TO SCALE



**4 PERSPECTIVE VIEW**  
NOT TO SCALE



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ALGOA CORRECTIONAL  
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JEFFERSON CITY, MO 65101

PROJECT NO. C2403-01  
SITE NO. 7006  
ASSET NO. 9327006056

REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/25/2024

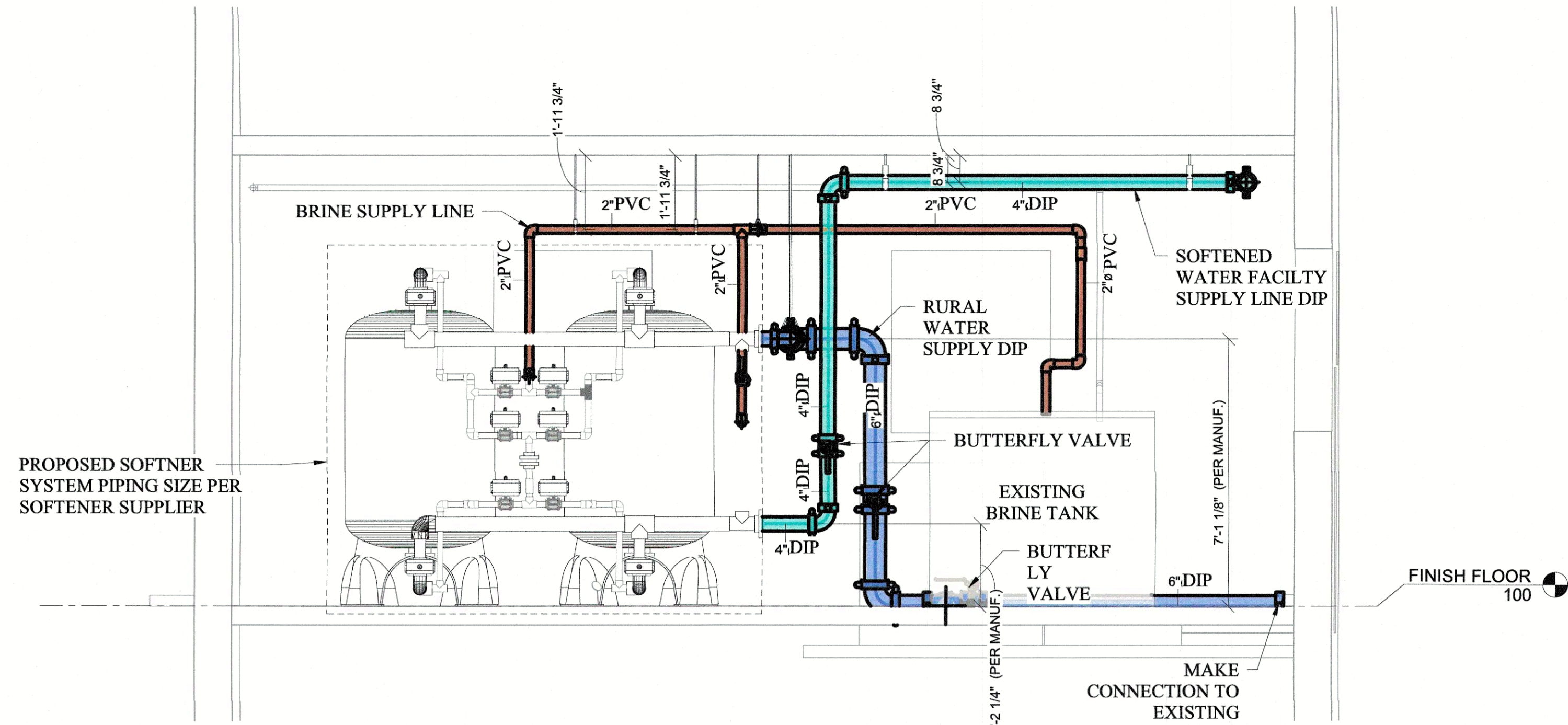
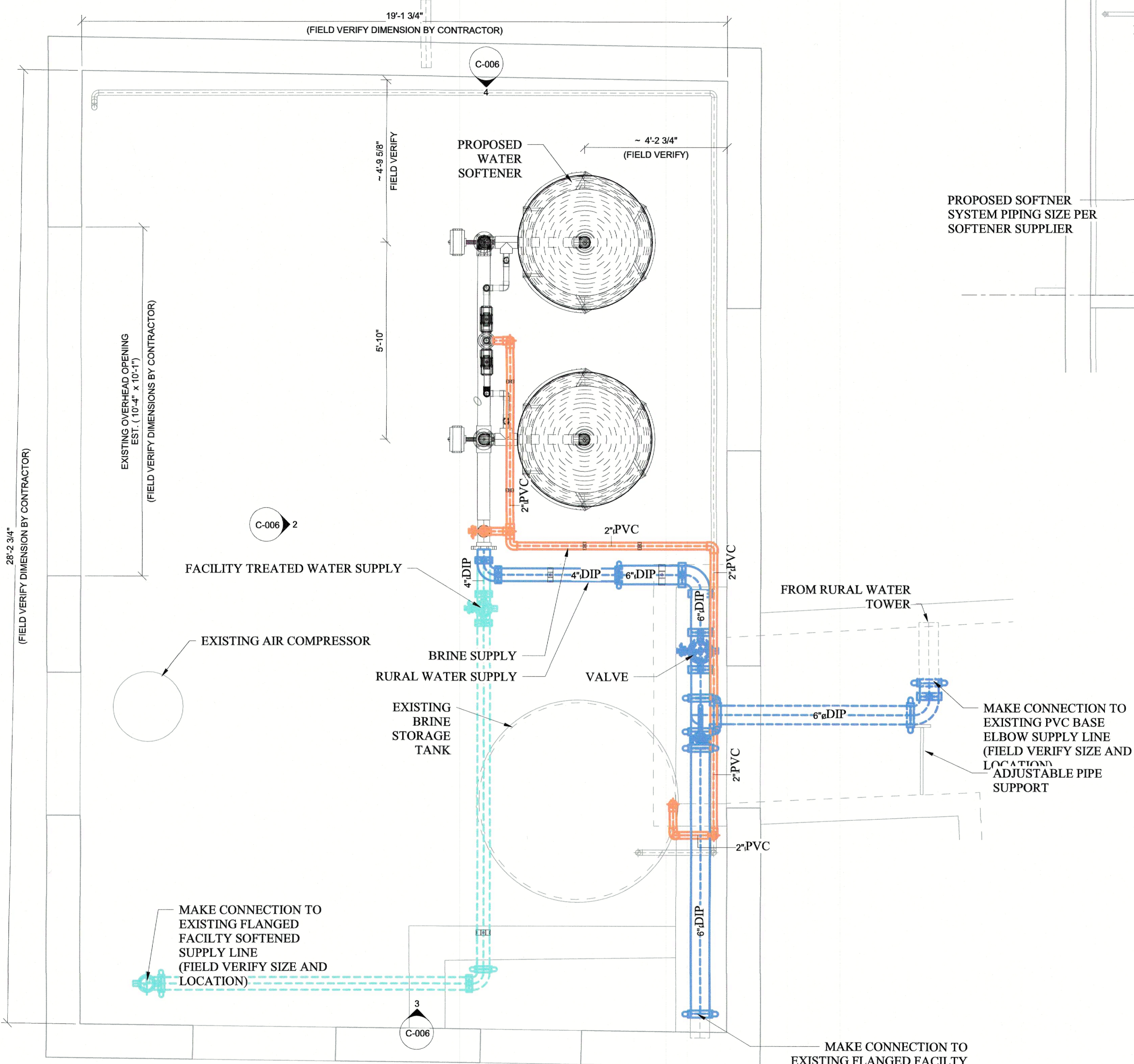
CAD DWG FILE: C2403-01-AL-C-SBPC-06  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PW

SHEET TITLE:  
SOFTENER  
BUILDING  
PROPOSED  
CONDITIONS

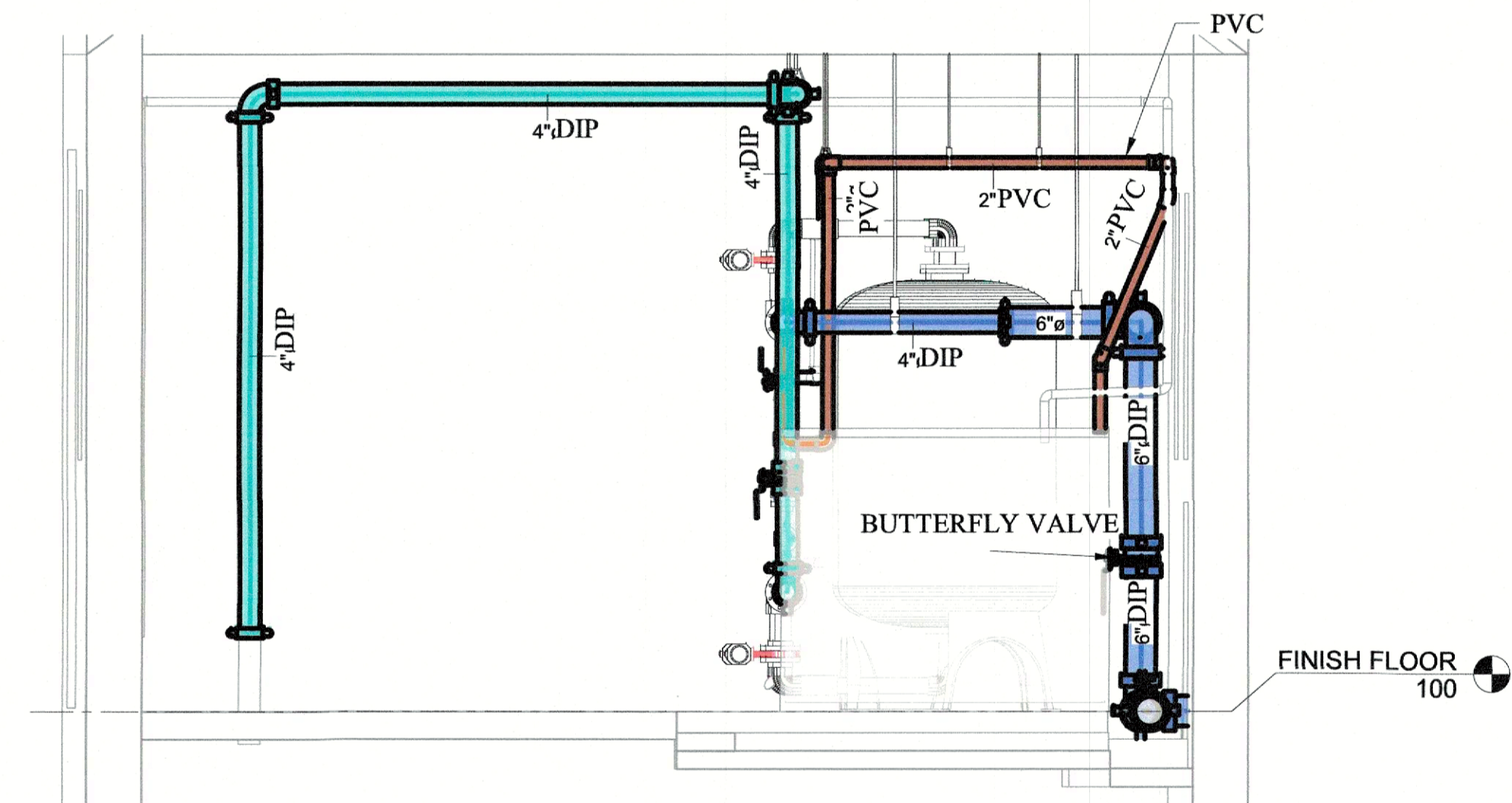
SHEET NUMBER:

**C-006**

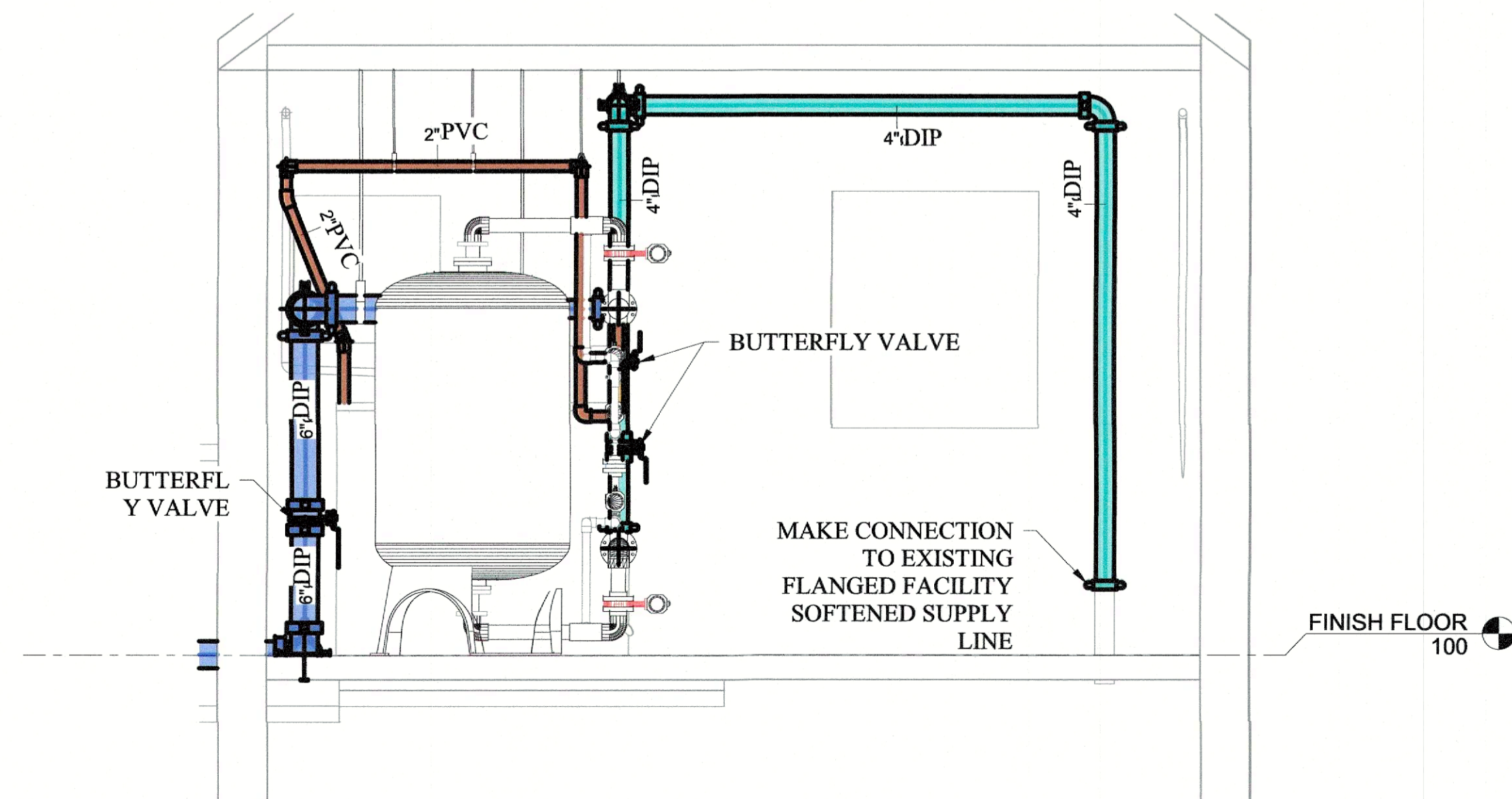
10 OF 13 SHEETS  
10/25/2024



**2 SW PROPOSED ELEVATION VIEW**  
NOT TO SCALE



**3 SE PROPOSED ELEVATION VIEW**  
NOT TO SCALE



**4 NW PROPOSED ELEVATION**  
NOT TO SCALE

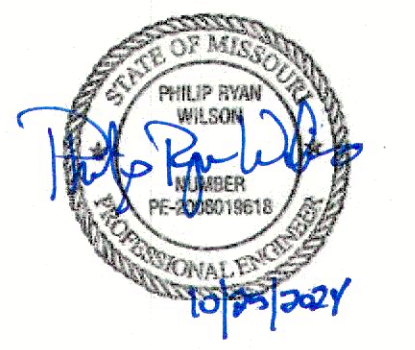
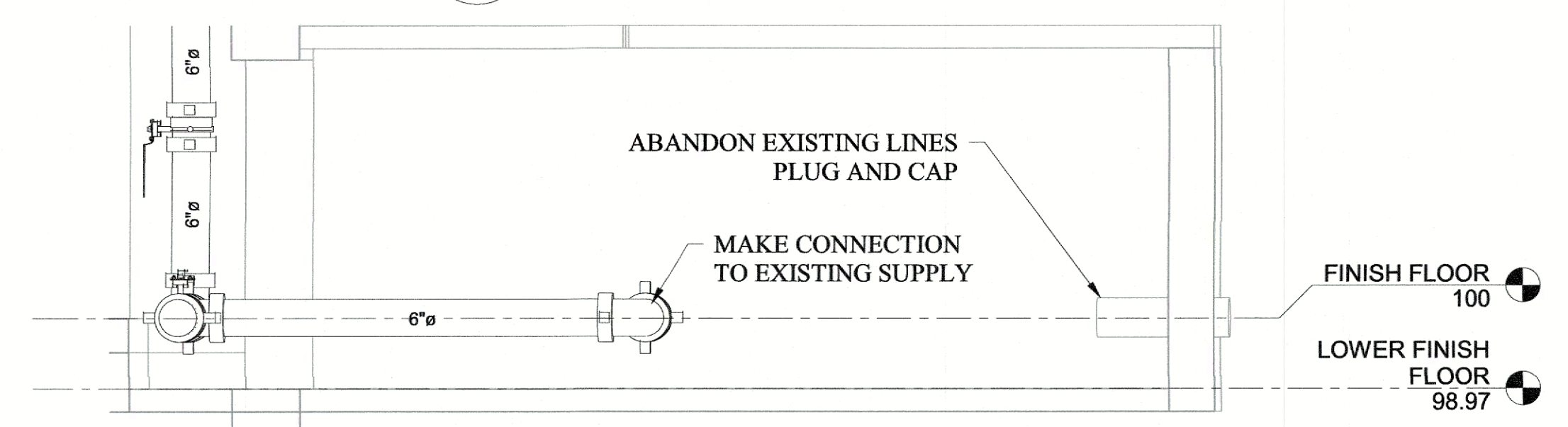
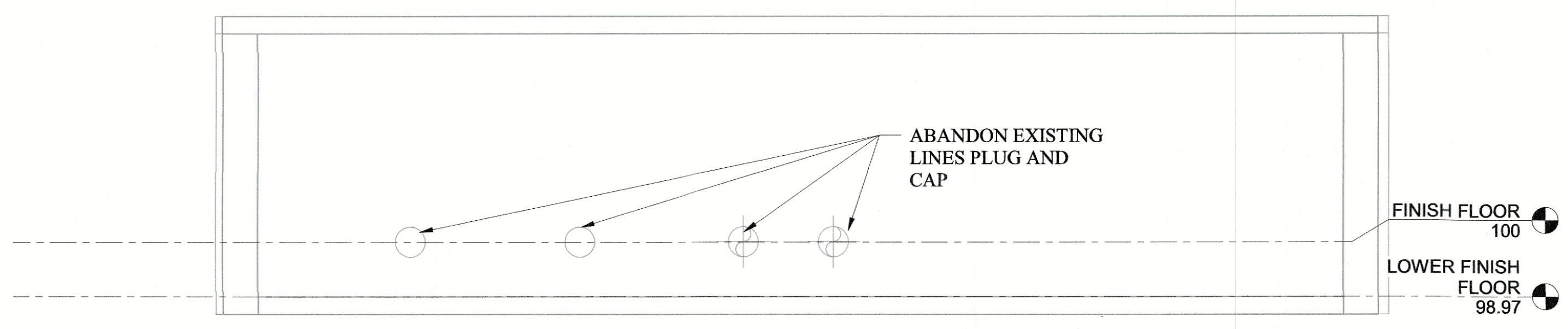
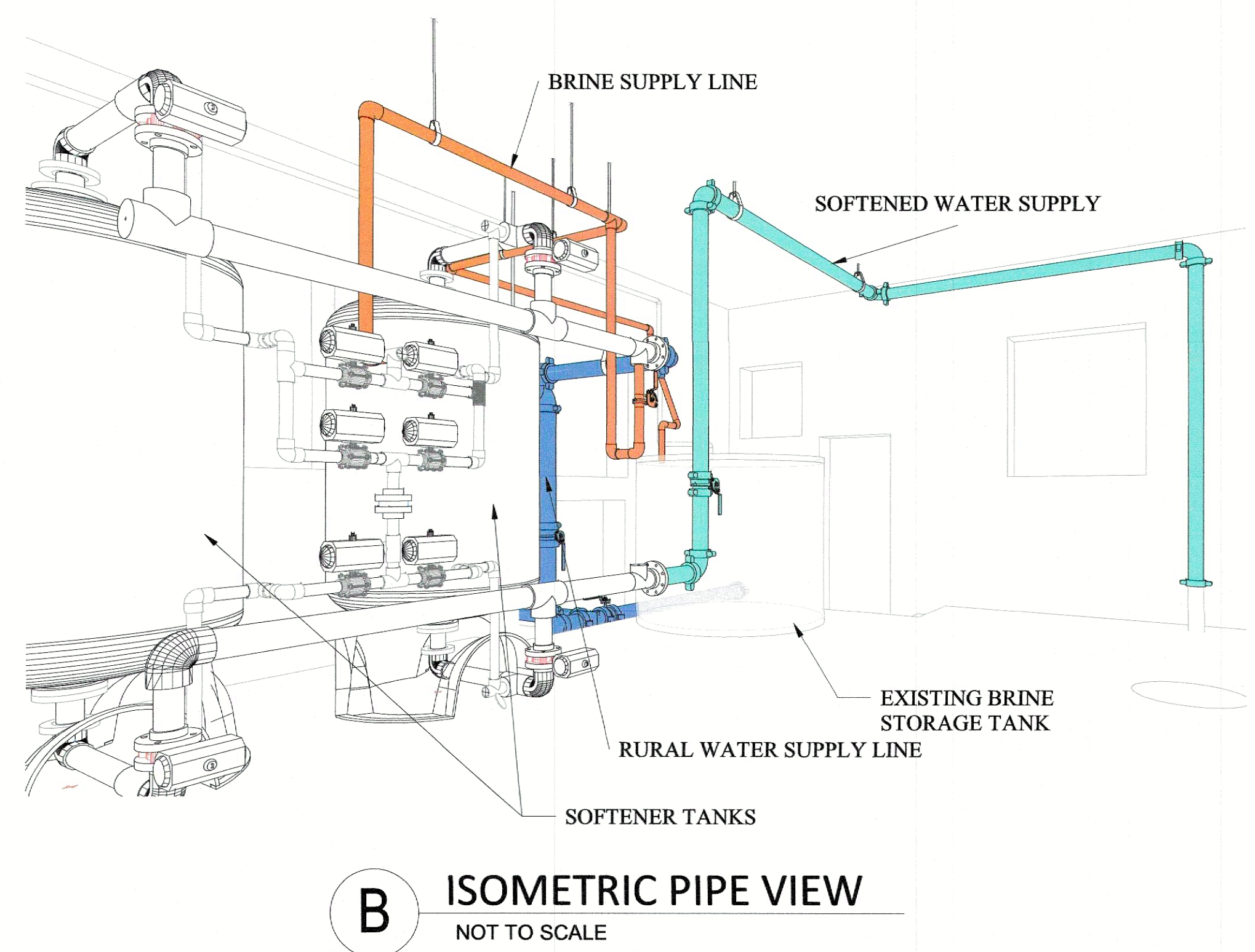
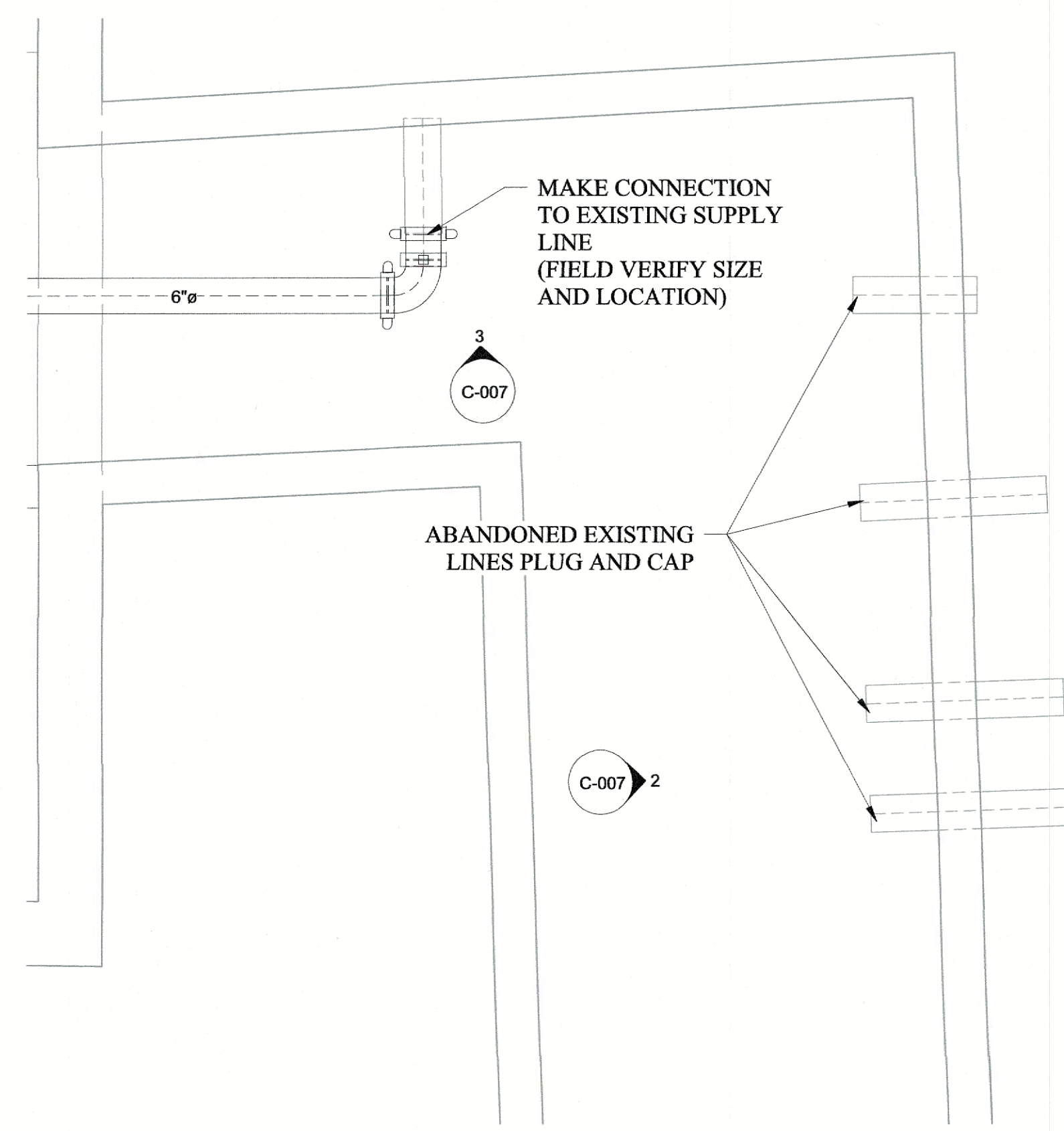
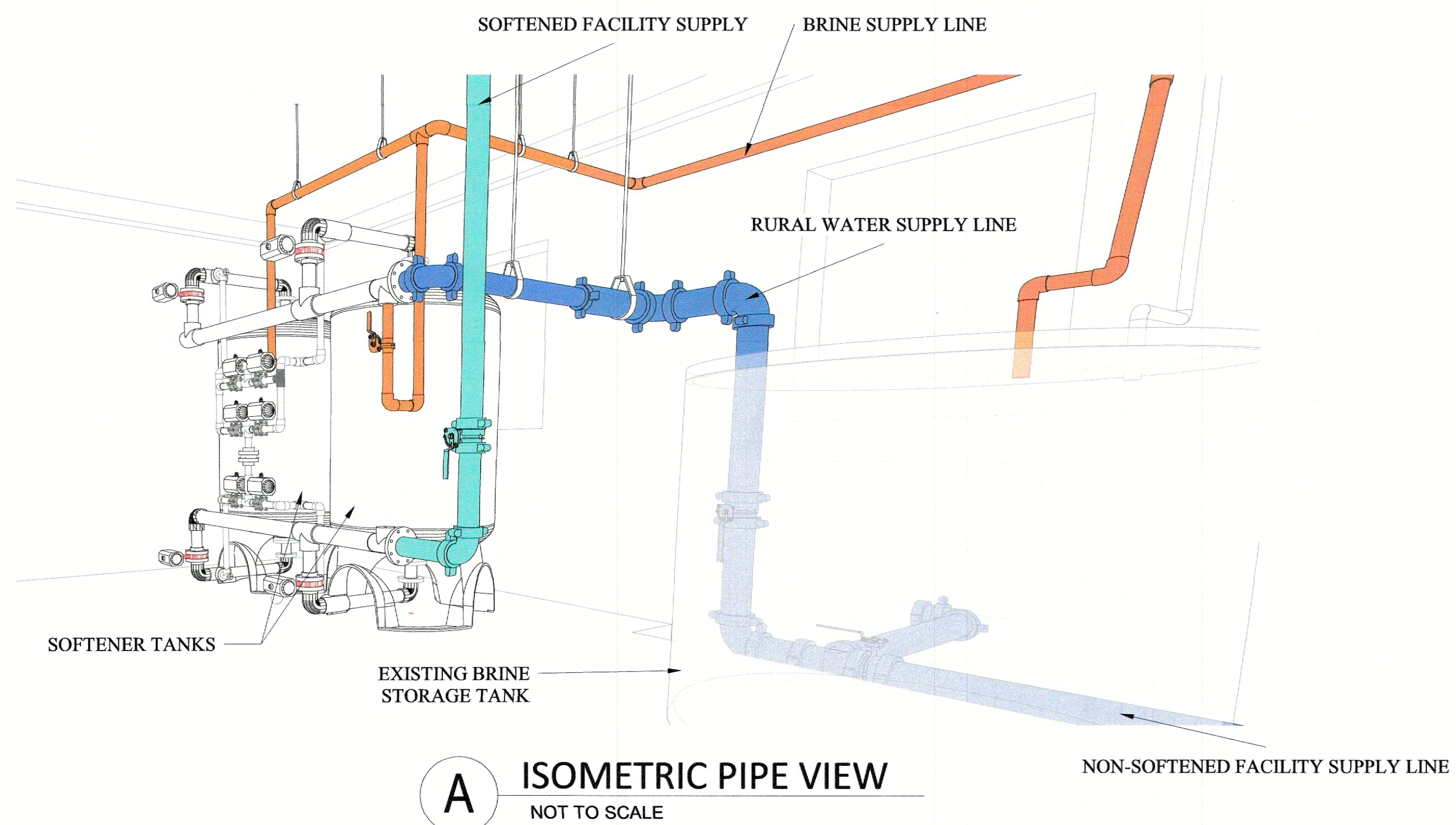


**1 PROPOSED BUILDING PIPING AND EQUIPMENT**

SCALE: 1/2" = 1'-0" (FULL SIZE 24"x36")

**NOTES:**

- COORDINATE PURCHASE, INSTALLATION, AND STARTUP OF THE PROPOSED WATER SOFTENING SYSTEM WITH THE OWNER'S WATER TREATMENT SERVICE CONTRACTOR:  
WALTER LOUIS FLUID TECHNOLOGIES  
530 S. 5TH STREET  
QUINCY, IL 62301  
217.223.2017  
SALES@WALTERLOUIS.COM
- ALL PIPING IN BUILDING IS TO BE RESTRAINED JOINT PIPE. REPLACE ALL AIR LINES FROM AIR COMPRESSOR TO CONTROL VALVES.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.



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REPLACE WATER  
DISTRIBUTION SYSTEM

ALGOA CORRECTIONAL  
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8501 NO MORE VICTIMS RD.  
JEFFERSON CITY, MO 65101

PROJECT NO. C2403-01  
SITE NO. 7006  
ASSET NO. 9327006056

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/25/2024

CAD DWG  
FILE: C2403-01-AL-C-SBPC-07  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PW

SHEET TITLE:  
SOFTENER  
BUILDING  
PROPOSED  
CONDITIONS

SHEET NUMBER:

**C-007**



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DEPARTMENT OF  
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REPLACE WATER  
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JEFFERSON CITY, MO 65101

PROJECT NO. C2403-01  
SITE NO. 7006  
ASSET NO. 9327006056

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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/25/2024

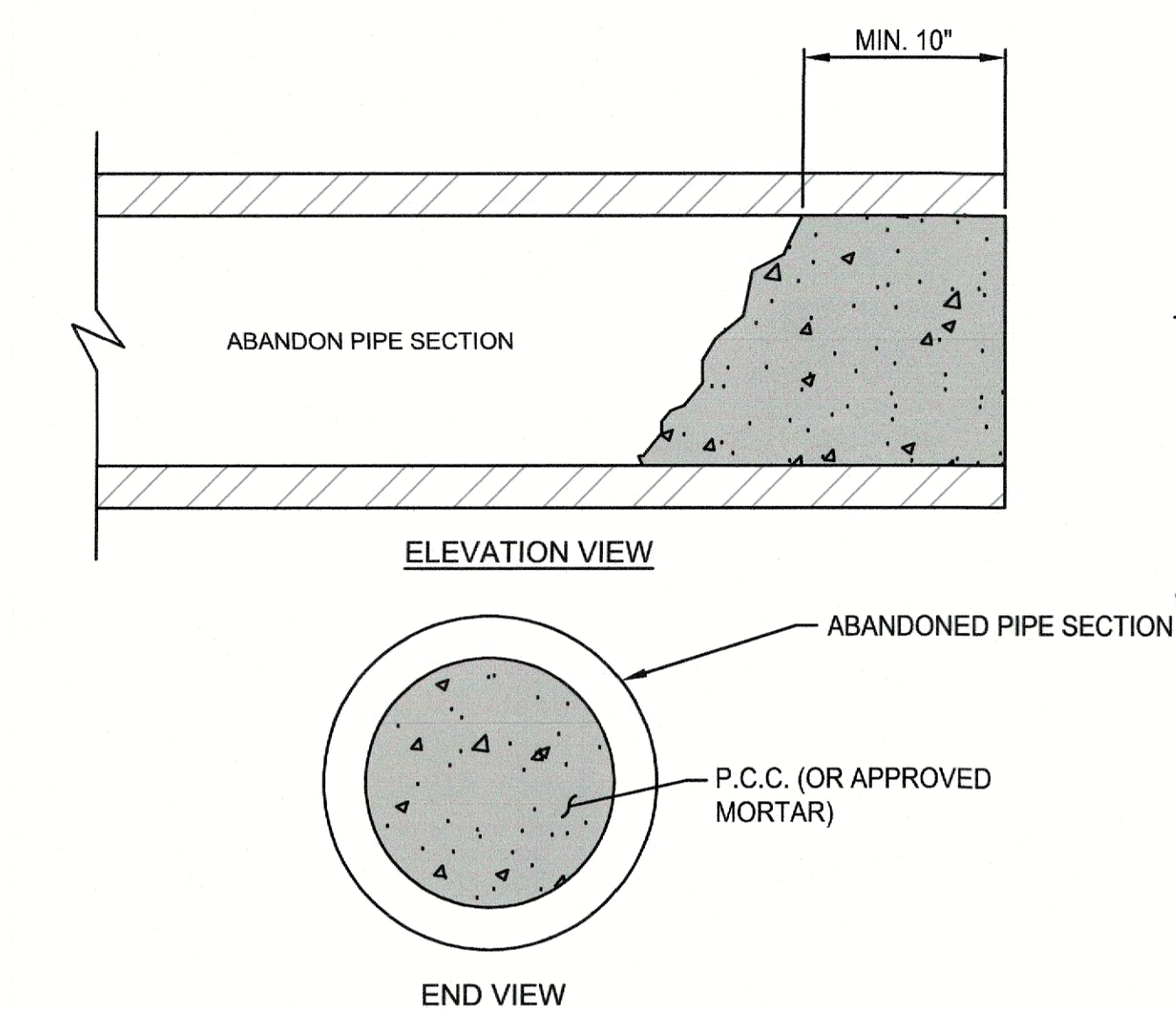
CAD DWG FILE: C2403-01-AL-D-DTL-01  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PRW

SHEET TITLE:  
**TRENCH DETAILS**

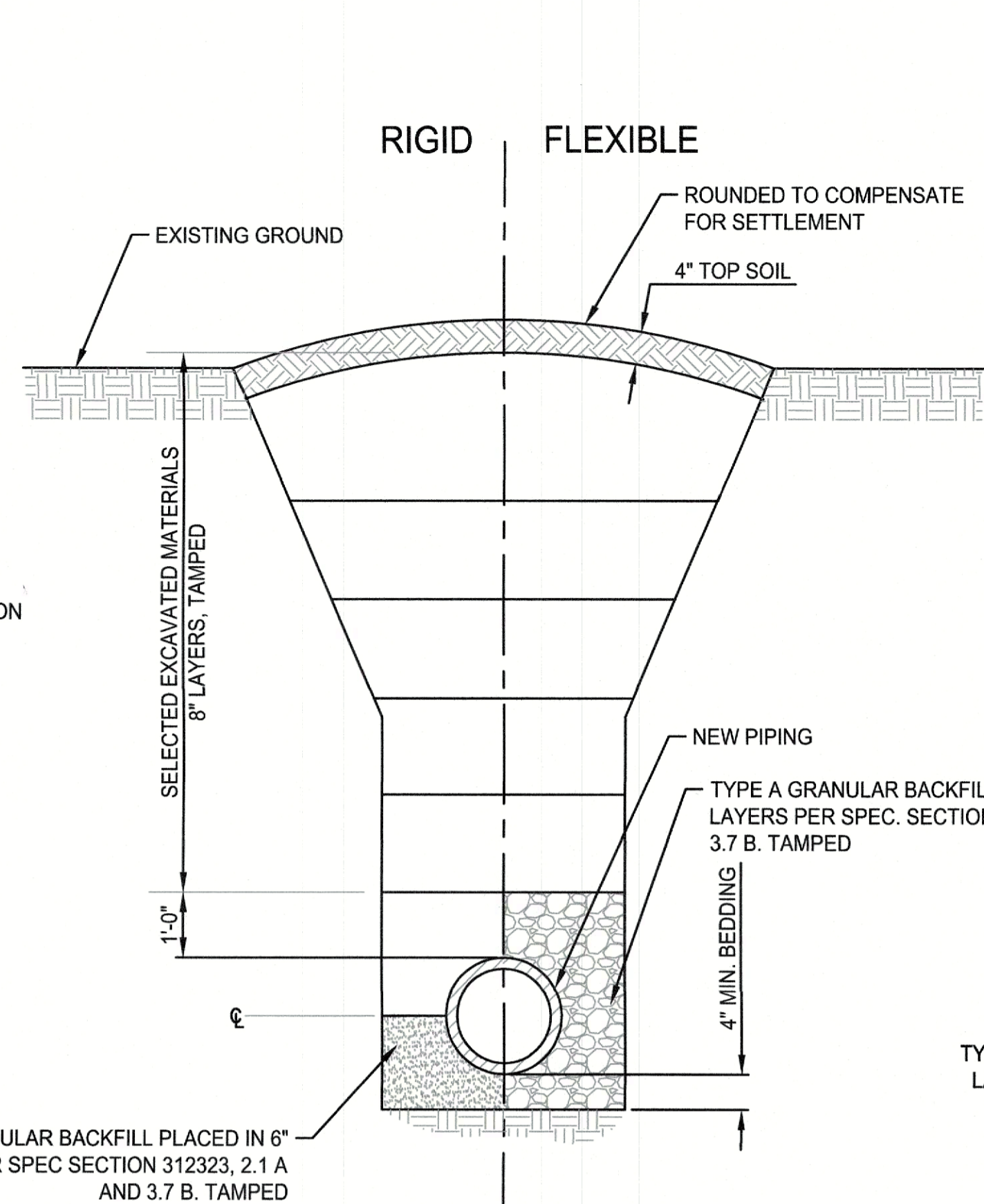
SHEET NUMBER:

**D-001**

12 OF 13 SHEETS  
10/25/2024

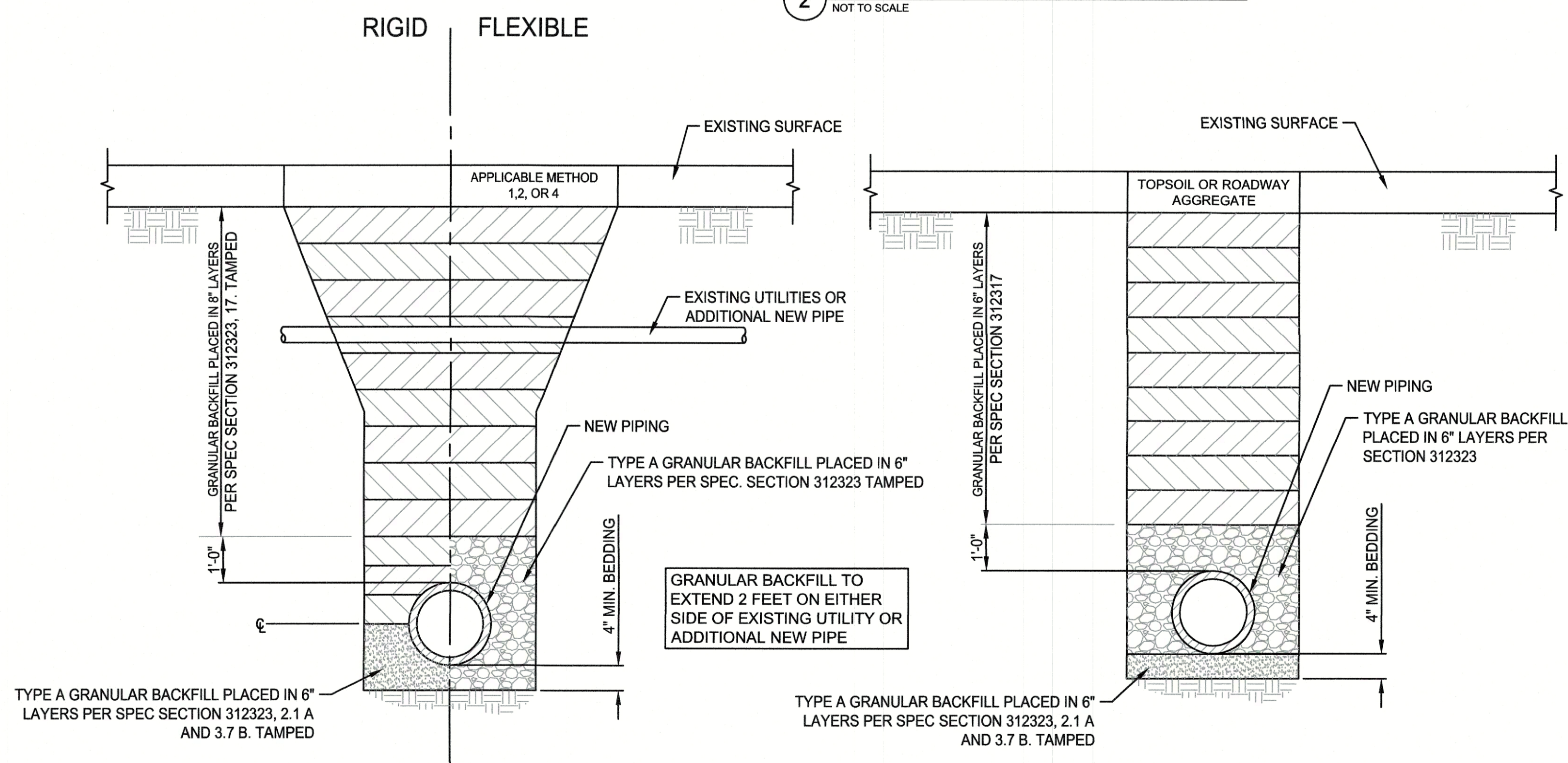


**1** STANDARD PIPE PLUG FOR ABANDONED PIPE  
NOT TO SCALE



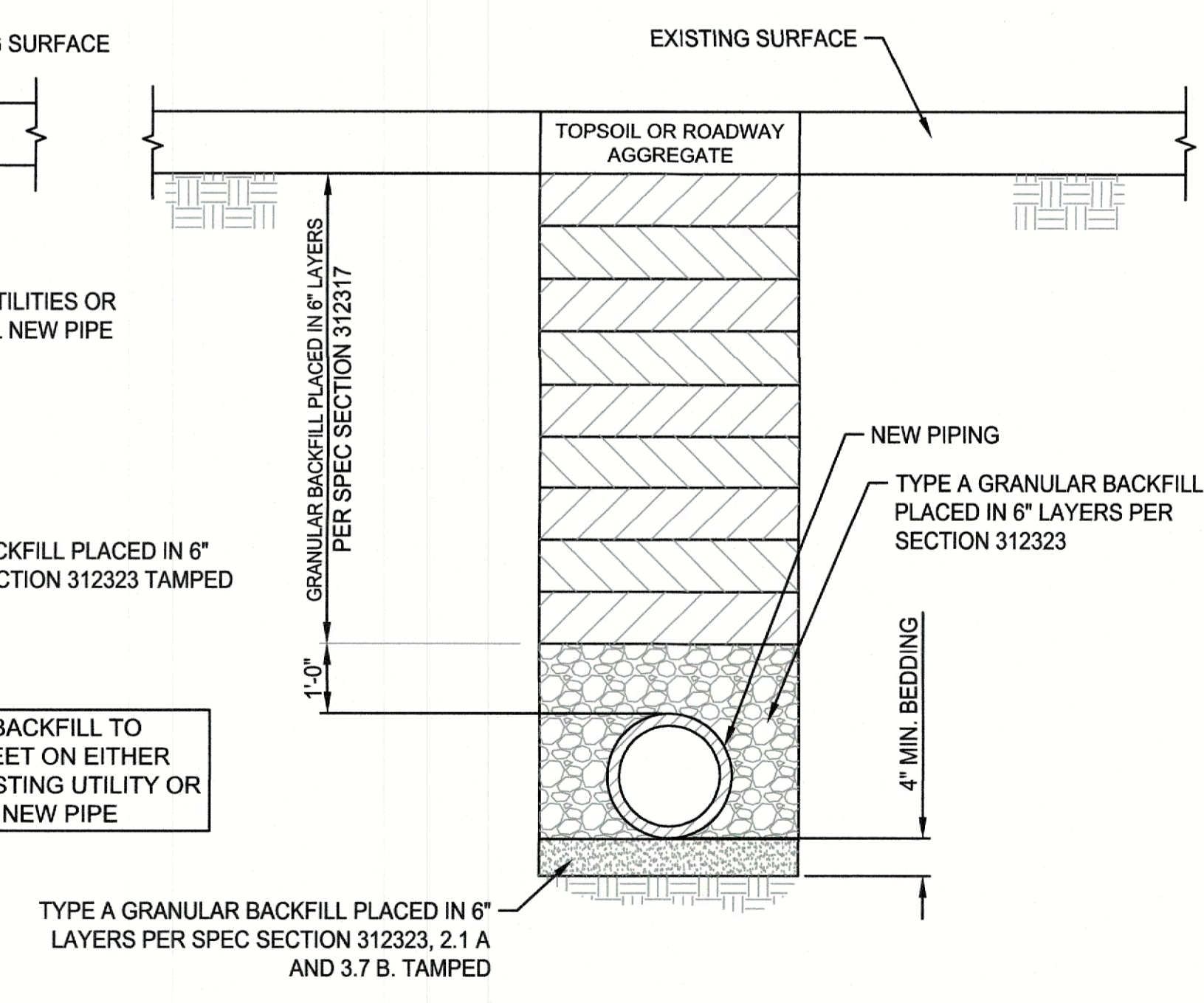
TYPE A GRANULAR BACKFILL PLACED IN 6" LAYERS PER SPEC SECTION 312323, 2.1 A AND 3.7 B. TAMPED

**2** METHOD 1, TRENCH UNDER YARDS AND UNIMPROVED AREAS  
NOT TO SCALE



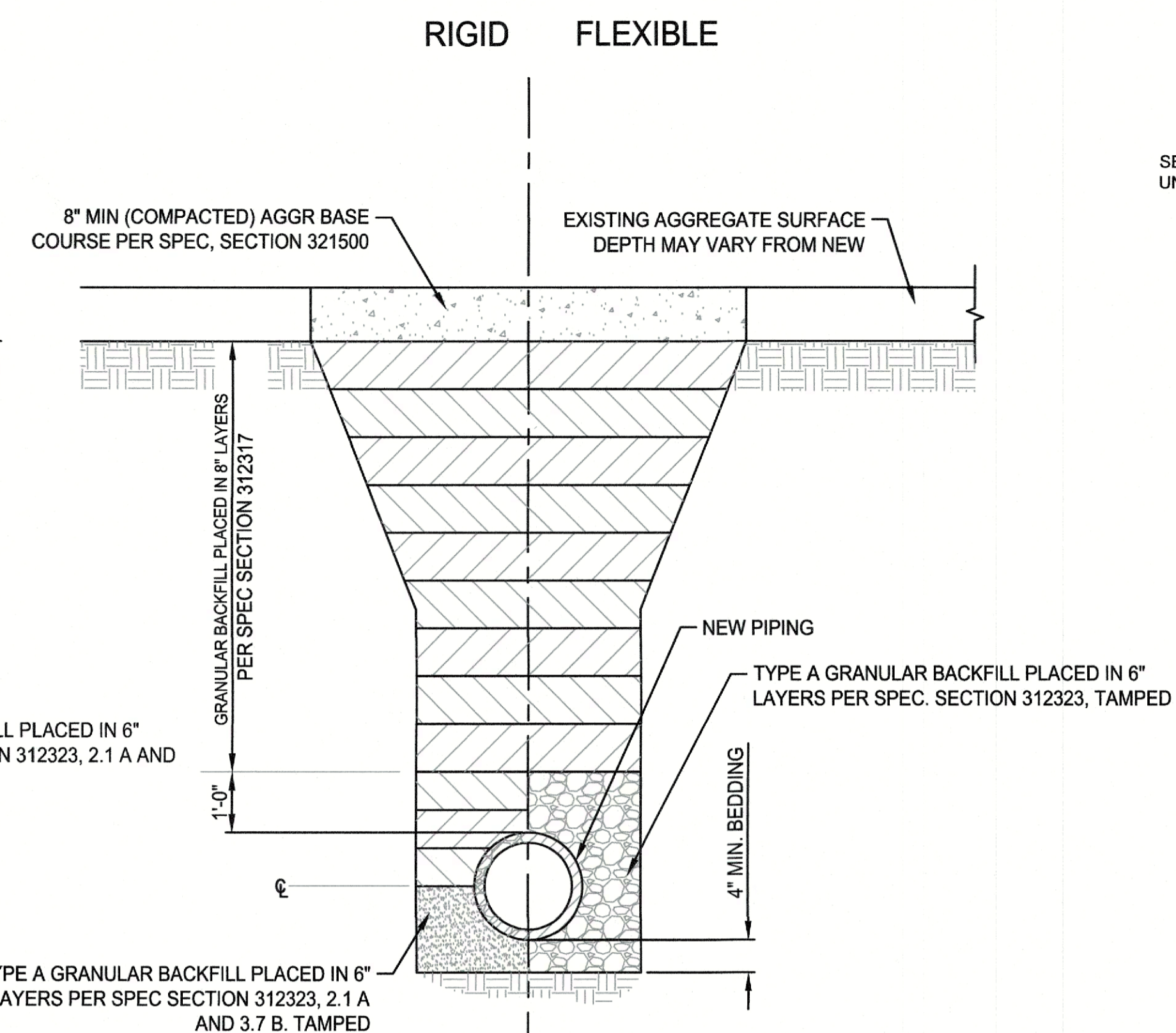
TYPE A GRANULAR BACKFILL PLACED IN 6" LAYERS PER SPEC SECTION 312323, 2.1 A AND 3.7 B. TAMPED

**5** METHOD 3, TRENCH UNDER EXISTING UTILITIES OR STRUCTURES  
NOT TO SCALE



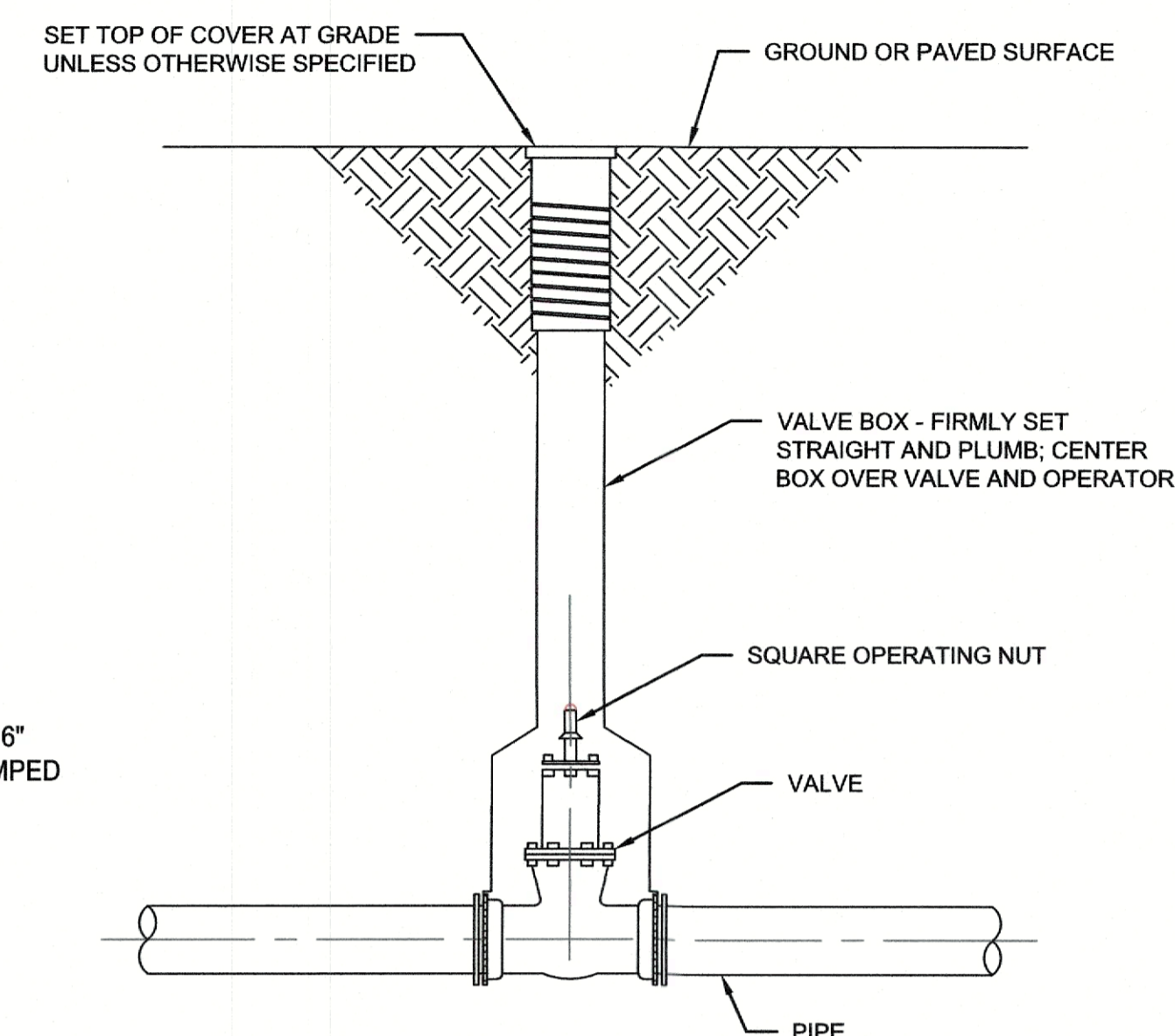
TYPE A GRANULAR BACKFILL PLACED IN 6" LAYERS PER SPEC SECTION 312323, 2.1 A AND 3.7 B. TAMPED

**6** METHOD 4, TRENCH UNDER EXISTING ASPHALT OR CONCRETE  
NOT TO SCALE

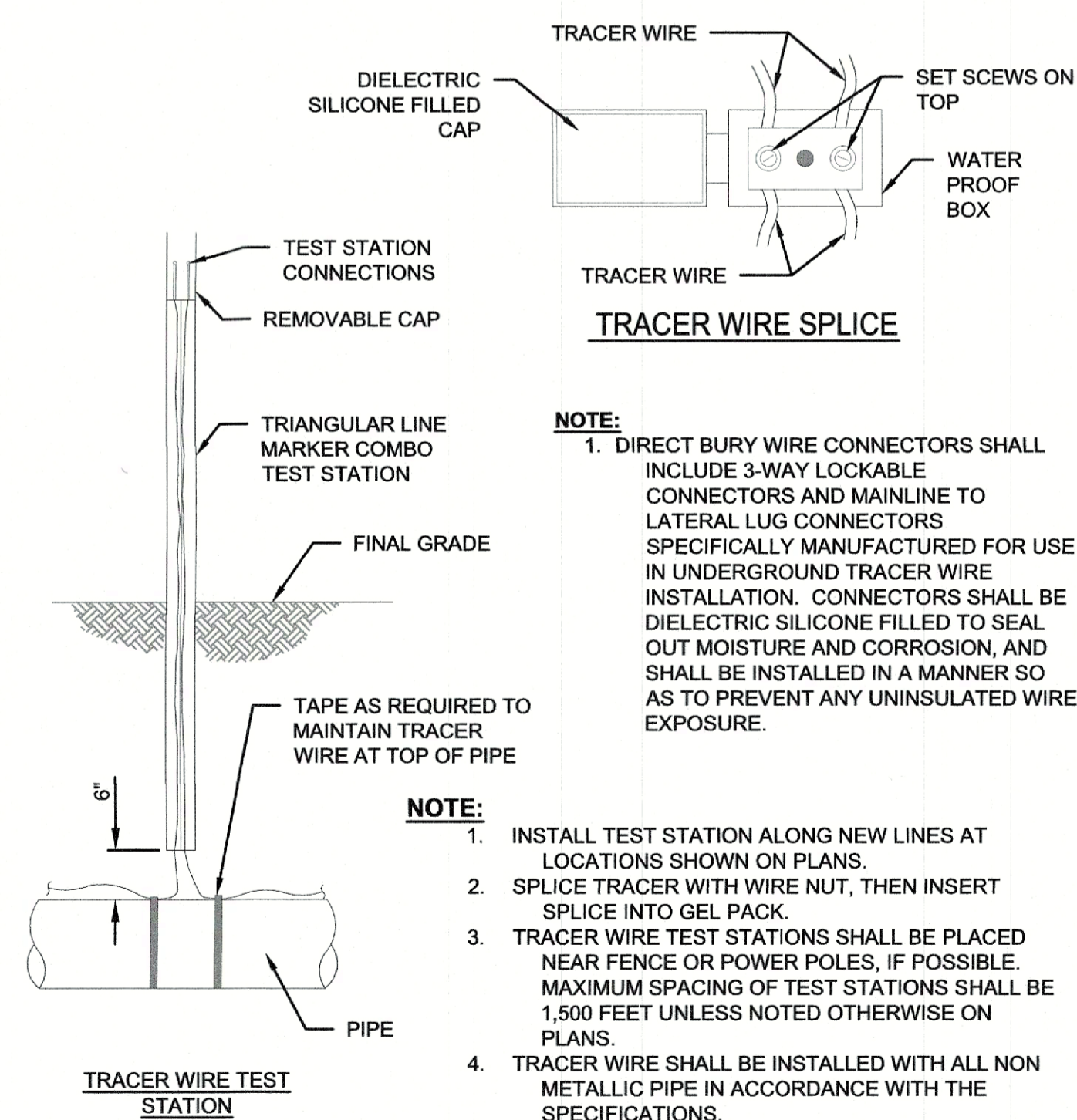


TYPE A GRANULAR BACKFILL PLACED IN 6" LAYERS PER SPEC SECTION 312323, 2.1 A AND 3.7 B. TAMPED

**3** METHOD 2, TRENCH UNDER PERMANENT ASPHALT AND CONCRETE  
NOT TO SCALE



**4** BURIED VALVE BOX DETAIL  
NOT TO SCALE

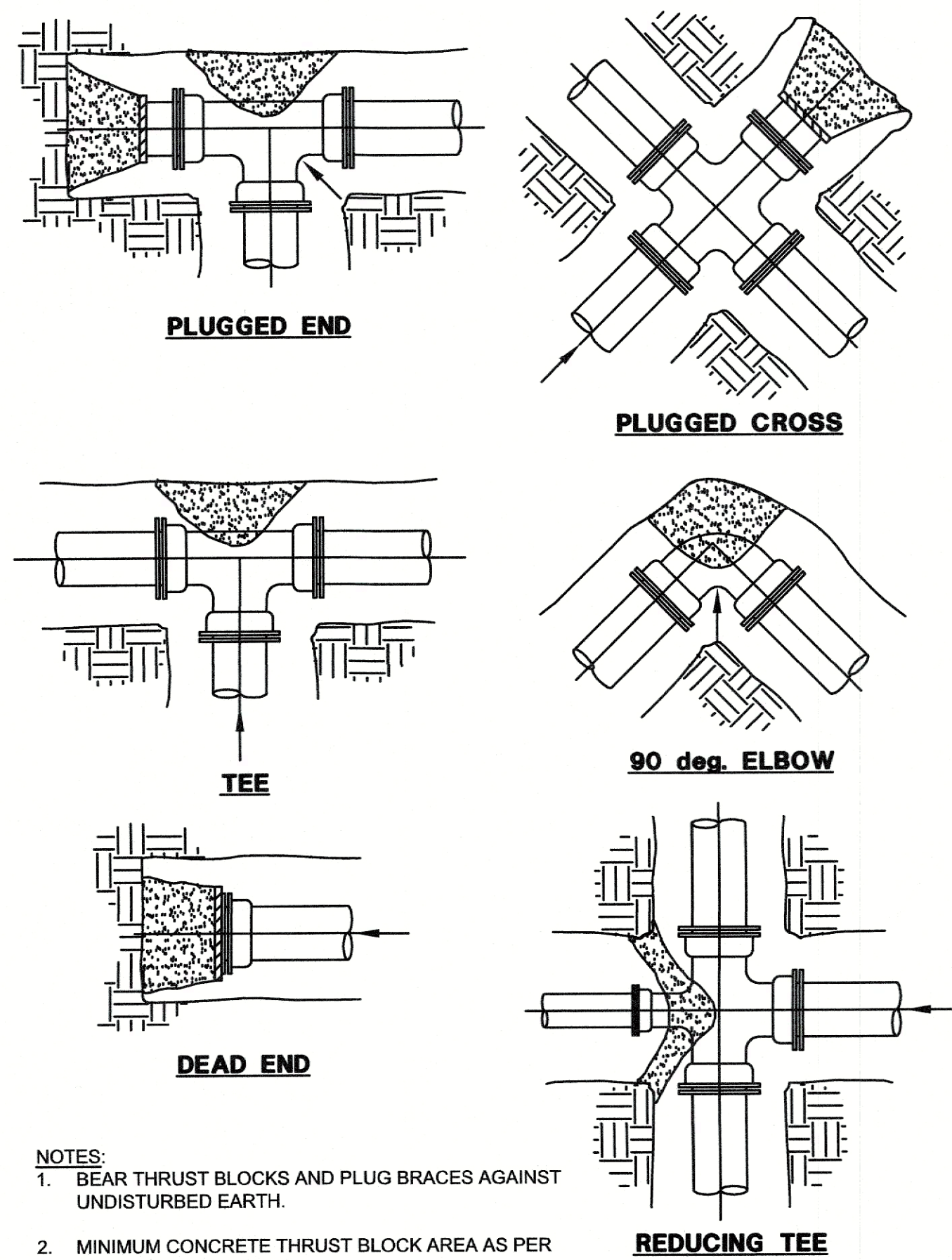


**NOTE:**  
1. DIRECT BURY WIRE CONNECTORS SHALL INCLUDE 3-WAY LOCKABLE CONNECTORS AND MAINLINE TO LATERAL LUG CONNECTORS SPECIFICALLY MANUFACTURED FOR USE IN UNDERGROUND TRACER WIRE INSTALLATION. CONNECTORS SHALL BE DIELECTRIC SILICONE FILLED TO SEAL OUT MOISTURE AND CORROSION, AND SHALL BE INSTALLED IN A MANNER SO AS TO PREVENT ANY UNINSULATED WIRE EXPOSURE.

- NOTE:**
1. INSTALL TEST STATION ALONG NEW LINES AT LOCATIONS SHOWN ON PLANS.
  2. SPLICE TRACER WITH WIRE NUT, THEN INSERT SPLICE INTO GEL PACK.
  3. TRACER WIRE TEST STATIONS SHALL BE PLACED NEAR FENCE OR POWER POLES, IF POSSIBLE. MAXIMUM SPACING OF TEST STATIONS SHALL BE 1,500 FEET UNLESS NOTED OTHERWISE ON PLANS.
  4. TRACER WIRE SHALL BE INSTALLED WITH ALL NON METALLIC PIPE IN ACCORDANCE WITH THE SPECIFICATIONS.

TRACER WIRE TEST STATION  
**TRACER WIRE DETAILS**

**7** TYPICAL TRACER WIRE TEST STATION  
NOT TO SCALE



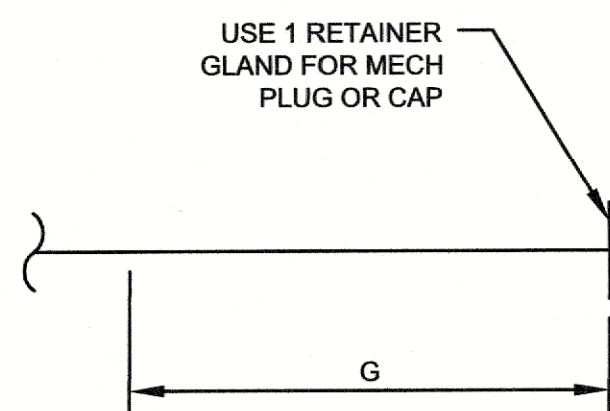
- NOTES:**
1. BEAR THRUST BLOCKS AND PLUG BRACES AGAINST UNDISTURBED EARTH.
  2. MINIMUM CONCRETE THRUST BLOCK AREA AS PER SPEC. SECTION 331400.
  3. ARROWS INDICATE DIRECTION OF THRUST.
  4. ALL FLANGES AND BOLTS SHALL BE COVERED WITH POLYETHYLENE. DO NOT COVER JOINTS, BOLTS OR PLUGS WITH CONCRETE.

**1** THRUST BLOCK DETAILS  
NOT TO SCALE

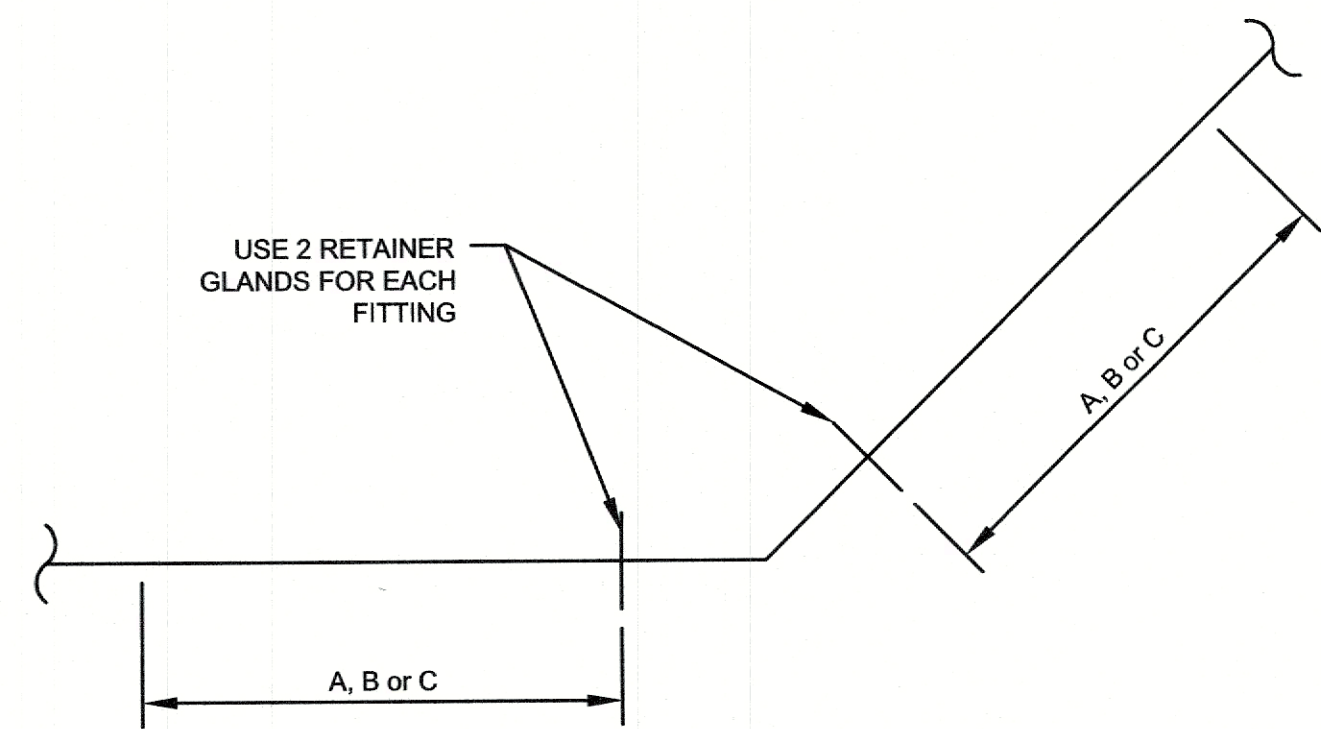
MINIMUM LENGTH OF RESTRAINED JOINT PIPE FROM FITTING \* (FEET)

PIPE SIZE (INCHES)	PIPE MATERIAL	DIMENSION LENGTH IN FEET **							
		A	B	C	D	E	F	G	H
4	PVC	2	3	6	13	13	6	25	15
6	PVC	2	4	8	18	18	16	35	21
8	PVC	3	5	10	23	23	27	47	27
10	PVC	3	6	12	28	28	37	56	33
12	PVC	4	7	14	33	33	47	67	39
14	PVC	4	8	16	38	38	57	77	44
16	PVC	5	9	18	43	43	67	87	50
18	PVC	5	10	20	48	48	77	97	56
20	PVC	6	11	22	52	52	87	107	62
24	PVC	6	13	26	61	61	107	127	73
4	DIP	2	3	6	13	13	9	40	17
6	DIP	2	4	8	19	19	25	56	23
8	DIP	3	5	10	24	24	42	73	31
10	DIP	3	6	12	29	29	57	88	37
12	DIP	4	7	15	34	34	73	104	43
14	DIP	4	8	17	39	39	88	119	49
16	DIP	5	9	19	44	44	103	134	56
18	DIP	5	10	21	49	49	118	149	62
20	DIP	6	11	23	54	54	133	164	68
24	DIP	7	13	26	63	63	161	192	80

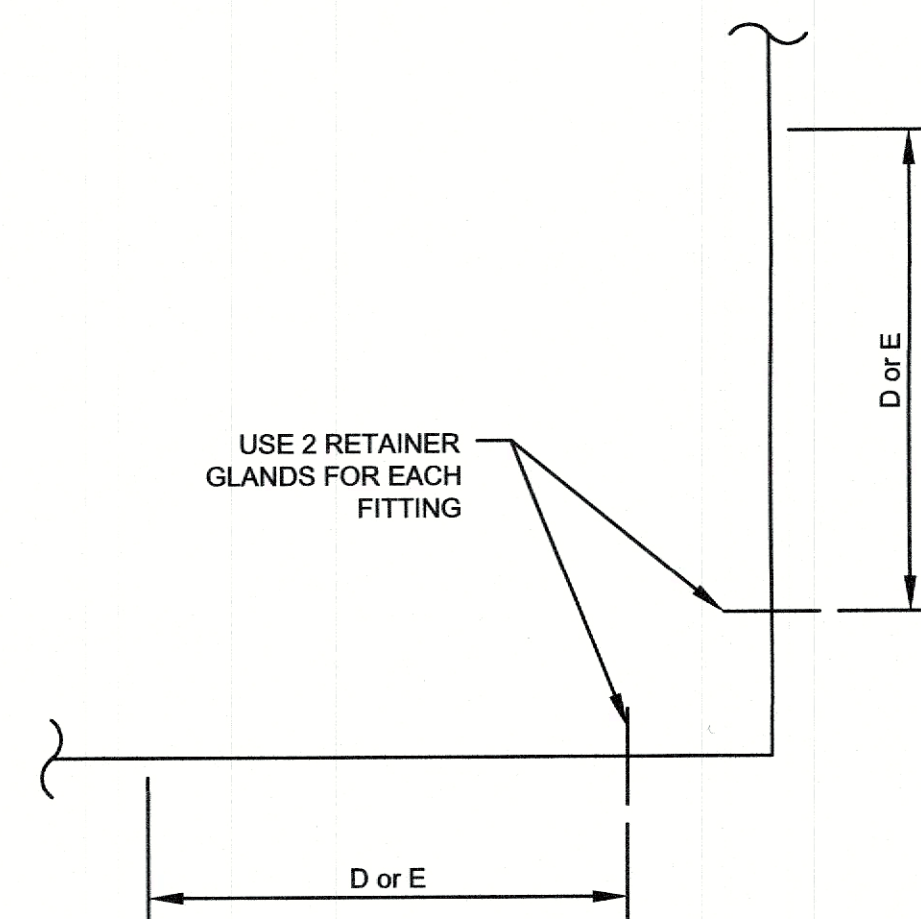
\* USE RESTRAINED JOINTS IN PIPING LAID WITHIN THESE DISTANCES FROM THE FITTING  
 \*\* TABLE BASED UPON THE FOLLOWING DESIGN CRITERIA:  
 SOIL TYPE: CL  
 SF 1.5:1  
 DEPTH OF BURY: 5  
 TEST PRESSURE: 150 PSI



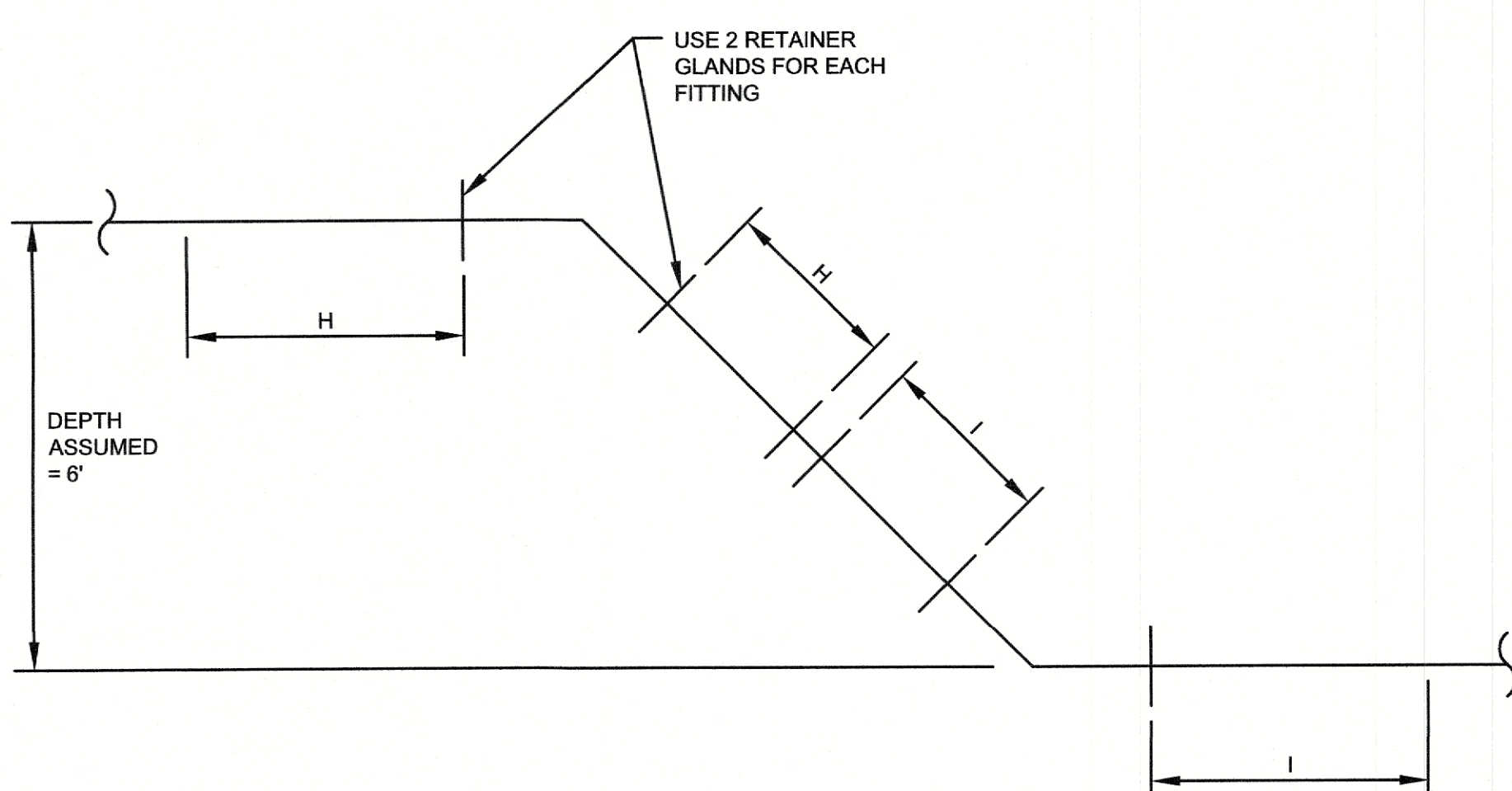
**2** RESTRAINED JOINT FOR PLUG OR CAP  
NOT TO SCALE



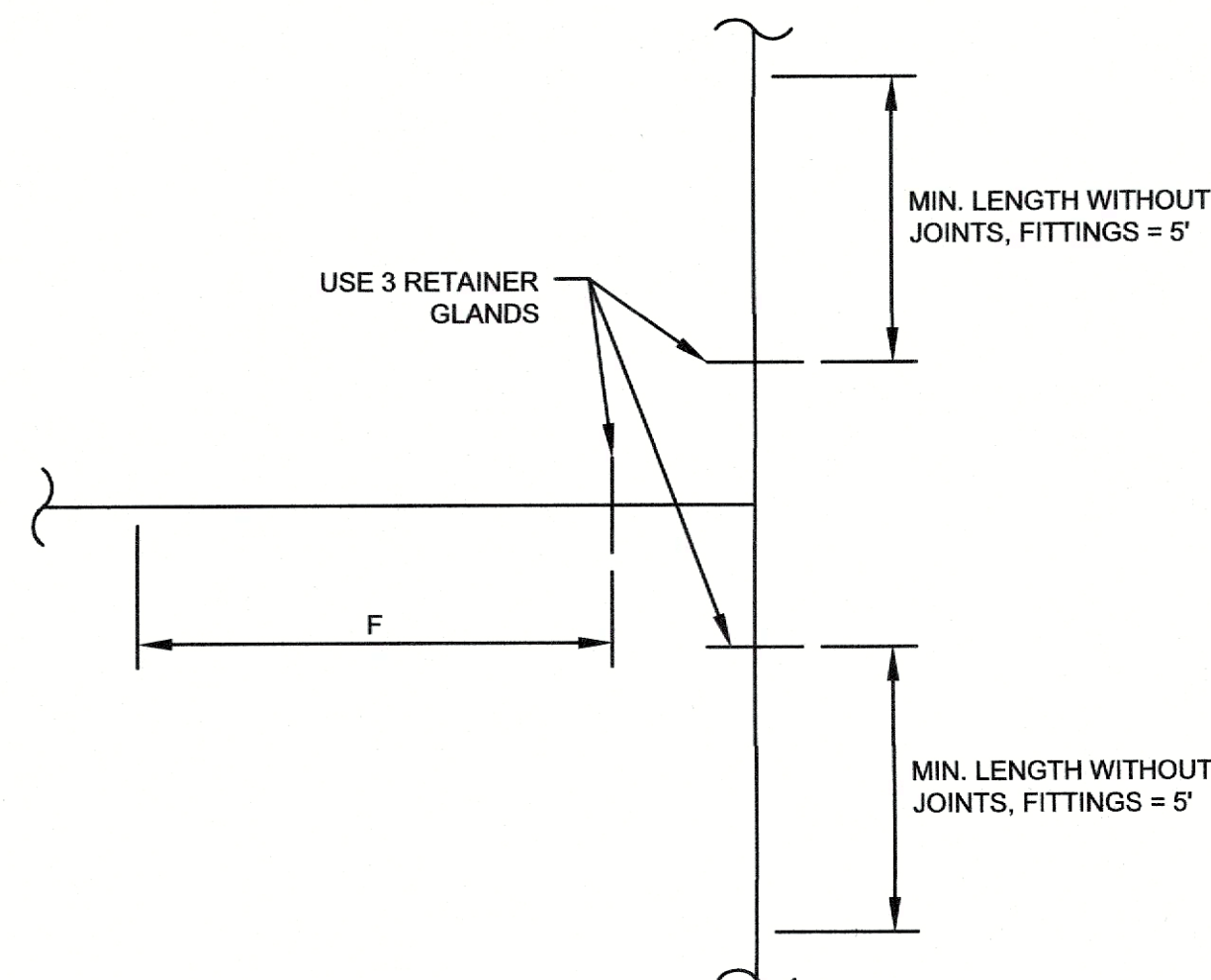
**3** RESTRAINED JOINT FOR HORIZONTAL  
11 1/4°(A), 22 1/2°(B), 45°(C) BENDS  
NOT TO SCALE



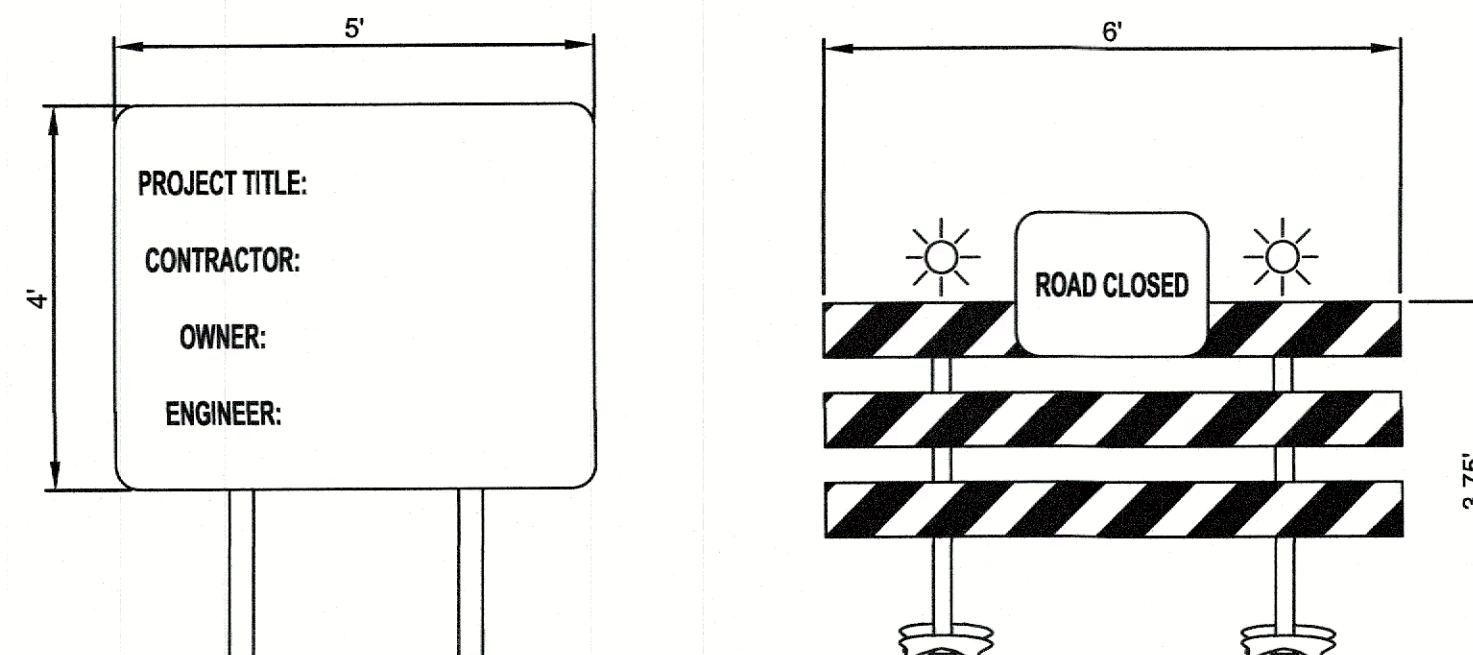
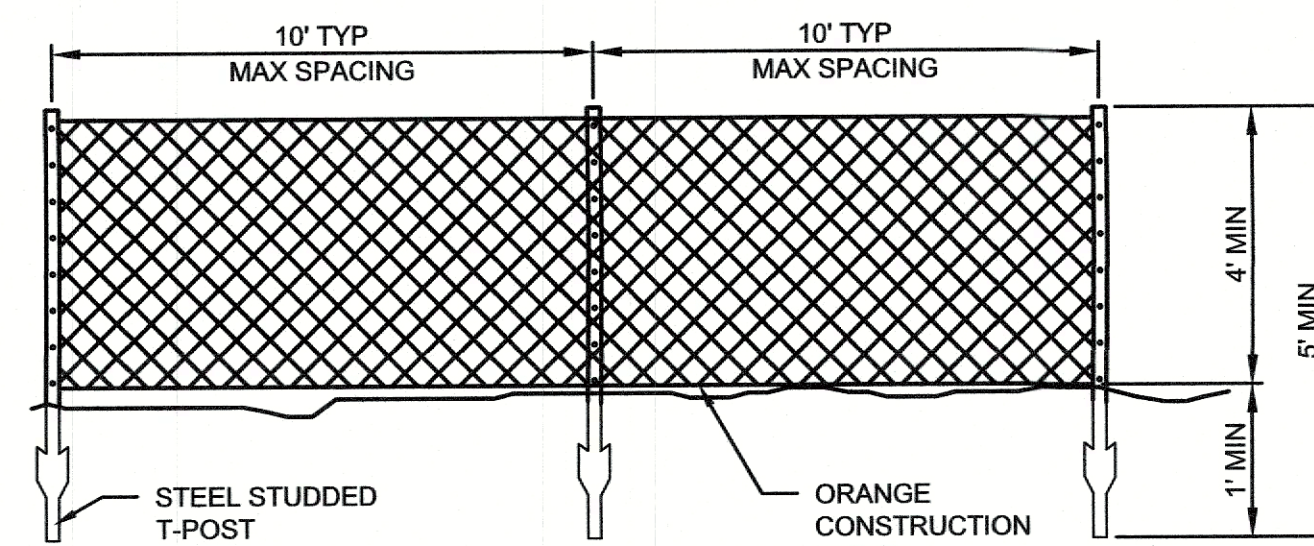
**4** RESTRAINED JOINT FOR HORIZONTAL  
67 1/2°(D), 90°(E) BENDS  
NOT TO SCALE



**6** RESTRAINED JOINT FOR VERTICAL 45° BEND  
NOT TO SCALE



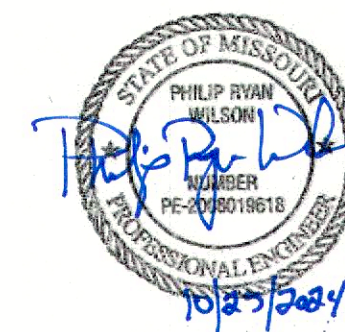
**7** RESTRAINED JOINT FOR TEE  
NOT TO SCALE



**8** CONSTRUCTION SIGNAGE & BARRICADE DETAILS  
1/2" = 1'-0"

NOTE:

1. INSTALL PROJECT IDENTIFICATION SIGNS TO INFORM PUBLIC AND PERSONS SEEKING ENTRANCE TO PROJECT. SUPPORT ON POSTS OR FRAMING OF PRESERVATIVE-TREATED WOOD OR STEEL.
2. ROAD BARRICADES TO BE IDENTICAL/SIMILAR TO TYPE III BARRICADES. PAINT WITH APPROPRIATE COLORS, GRAPHICS, AND WARNING SIGNS TO INFORM PERSONNEL AND THE PUBLIC OF THE HAZARD BEING PROTECTED AGAINST. PROVIDE LIGHTING AND FLASHING RED OR AMBER LIGHTS WHERE APPROPRIATE.



PHILIP R. WILSON, P.E.  
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S-2012009395  
EXPIRES DEC. 31, 2024



OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN & CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

REPLACE WATER  
DISTRIBUTION SYSTEM  
ALGOA CORRECTIONAL  
CENTER  
8501 NO MORE VICTIMS RD.  
JEFFERSON CITY, MO 65101

PROJECT NO. C2403-01  
SITE NO. 7006  
ASSET NO. 9327006056

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/25/2024

CAD DWG FILE: C2403-01-AL-D-DTL-02  
DRAWN BY: JMB  
CHECKED BY: DS  
DESIGNED BY: PRW

SHEET TITLE:  
PIPING DETAILS

SHEET NUMBER:

**D-002**

13 OF 13 SHEETS  
10/25/2024