

Autodesk Docs/06462-000_EDS and CA for RCSD Streets Rehab/00462-000-100-MSB-P.rvt
6/24/2024 7:26:58 PM



HOSE BIBB TO BE
REMOVED

DEMOLISH DOMESTIC COLD
WATER BACK TO WALL, CAP
FOR RECONNECTION

DEMOLISH EFFLUENT
WATER BACK TO WALL,
CAP FOR RECONNECTION

1" EFFLUENT AND DOMESTIC COLD WATER
AND ALL ASSOCIATED FITTINGS AND
EQUIPMENT TO BE DEMOLISHED

EXISTING HYDRONIC
PIPING TO BE DEMOLISHED

HOSE BIBB TO BE
REMOVED

HOSE BIBB TO BE
REMOVED

EXISTING HYDRONIC
PIPING TO BE DEMOLISHED

STORM DRAIN TO BE
DISCONNECTED AND
CAPPED FOR FUTURE
CONNECTION

EXISTING STORM
DRAIN TO BE
DEMOLISHED

EXISTING STORM DRAIN TO BE
DEMOLISHED. COORDINATE
DEMOLITION CONNECTION TO
EXISTING SITE DRAINAGE
SYSTEM WITH SITE CIVIL.

DEMOLITION PLAN EL 70.50

1/4" = 1'-0"

1/4" = 1'-0"



FOR BID



Hazen

HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING REMOVAL
PLAN EL 70.50

DATE: JUNE 2024

HAZEN NO.: 90462-000

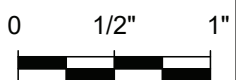
CONT NO.: RFB-RC-SWR-2023-06

DRAWING
NUMBER:

DP-01

| REV | ISSUED FOR | DATE | BY |
|-----|------------|---------|-----|
| 0 | BID | 06/2024 | pds |

| | |
|---|------------|
| PROJECT ENGINEER: | R. FROST |
| DESIGNED BY: | J. ROSS |
| DRAWN BY: | K. TREANOR |
| CHECKED BY: | G. LYNCH |
| IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | |

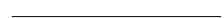



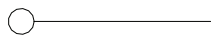







GENERAL NOTES


- AT A MINIMUM, ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, NYS BUILDING CODE, NYS PLUMBING CODE, 2020 NYS ENERGY CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK. IF THE CONTRACT DOCUMENT SHOW DIFFERENT THAN THE CODE, THE MORE STRINGENT SHALL APPLY.
2. ALL WORK SHOWN ON THE DRAWINGS SHALL BE PROVIDED UNLESS OTHERWISE NOTED.
3. DUCTWORK & PIPING IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING & DUCTWORK SHALL BE DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER.
4. THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
5. EXISTING CONDITION HAVE BEEN GENERATED FROM AVAILABLE AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY AS-BUILT CONDITIONS IN FIELD AND DEVIATIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PERFORMING THE WORK.
6. THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING TO MATCH EXISTING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
7. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS AND OWNERS EQUIPMENT, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE SIGNAGE, BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
8. WHERE WELDING OR OPEN FLAME IS USED FOR CUTTING, SOLDERING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AND A FIRE WATCH IN PROXIMITY OF WORK AREA.
9. ALL WORK SHALL BE COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THIS PROJECT.
10. THE CONTRACTOR SHALL FILE PLANS WITH THE GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
11. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER STATING THE SAME. EQUIPMENT WARRANTIES OF A LONGER DURATION SHALL APPLY.
12. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
13. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
14. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND IN ACCORDANCE WITH BEST TRADE PRACTICES.
15. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND SIGNED BY THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER OR FOUND TO BE DEFECTIVE IN ANY WAY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
16. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.
17. ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8AM TO 5PM MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE OWNER. WORKING HOURS MUST BE COORDINATED WITH GENERAL CONTRACTOR. HOWEVER, THE CONTRACTOR MAY WORK EXTRA HOURS AS NEEDED TO COMPLETE THE CONTRACT SCOPE OF WORK AND MEET THE COMPLETION DATE AT NO ADDITIONAL COST TO OWNER, AS LONG AS OWNER HAS BEEN PROPERLY NOTIFIED AND HAS APPROVED SAME.
18. ROUGH PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK UNLESS OTHERWISE NOTED AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER. FINAL PATCHING AND PAINTING SHALL BE PERFORMED BY GENERAL CONTRACTOR
19. LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING POLYETHYLENE BARRIERS OR TARPULINS AND EXHAUST TO CONTAIN AIRBORNE MATERIALS.
20. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF CONTRACT DRAWINGS.
21. THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
22. ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.
23. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK, AND OTHER PROPERTY.

PLUMBING NOTES

- AT A MINIMUM, ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, NYC BUILDING CODE, NYC PLUMBING CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK. IF THE CONTRACT DOCUMENT SHOW DIFFERENT THAN THE CODE, THE MORE STRINGENT SHALL APPLY.
2. CONTRACTOR TO OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.
3. PIPING IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING SHALL BE DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER.
4. CONTRACTOR TO SUBMIT PLUMBING DIAGRAM FOR APPROVAL PRIOR TO PERFORMING WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL NEW MATERIAL, WORK AND EQUIPMENT INSTALLED UNTIL FINAL ACCEPTANCE BY THE ENGINEER.
6. ALL PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE ONLY.
7. PROVIDE ALL CUTTING, PATCHING, AND CLEAN-UP.
8. PIPING SUPPORTS SHALL BE INSTALLED AS DETAILED ON DWGS AND IN CONFORMANCE WITH APPLICABLE CODES HAVING JURISDICTION.
9. PROVIDE SCHEDULE 40 STEEL PIPE SLEEVES IN ALL MASONRY WALLS, FLOORS AND PARTITIONS PENETRATED BY PIPING. IN SHEET ROCK PARTITION PROVIDE 22 GAUGE GALVANIZED SLEEVES. ALLOW ROOM IN SLEEVE FOR INSULATION. PACK OPENING AROUND PIPING IN SLEEVE WITH U.L. APPROVED FIRE RATED MATERIAL.
10. PROVIDE BALL VALVES FOR ISOLATION ON ALL BRANCH PIPING AT CONNECTIONS TO MAINS AND AT ALL CONNECTIONS TO EQUIPMENT. VALVES SHALL BE EQUAL TO NIBCO FIG. S-580 WITH SOLDERED JOINTS.
11. INSULATE ALL HOT, COLD WATER, AND PUMP DISCHARGE PIPING. INSULATION SHALL BE ONE PIECE FLEXIBLE ELASTOMERIC WITH ALL SERVICE JACKET WITH SELF SEALING LAP JOINT. DO NOT USE STAPLES TO SEAL VAPOR BARRIER. INSULATION SHALL HAVE A MAXIMUM FLAME SPREAD OF (25) AND MAXIMUM SMOKE DEVELOPED RATING OF (50). INSULATION SHALL BE 1" THICK FOR INTERIOR PIPING AND 2" THICK FOR EXTERIOR PIPING.
12. LABEL AND IDENTIFY PIPING SERVICE USING SAME DESIGNATIONS OR ABBREVIATIONS AS USED ON THE DRAWINGS; ALSO INCLUDE PIPE SIZE AND ARROW INDICATING FLOW DIRECTION. UTILIZE STICK ON LABELS AS MFR'D BY SETON NAMEPLATE OR EQUAL.
13. PROVIDE CHROME PLATED PIPING WHERE PIPING IS EXPOSED BELOW FIXTURES, CEILINGS AND WALLS. PROVIDE CHROME PLATED ESCUTCHEONS AROUND ALL PIPING PENETRATING FINISHED WALLS AND ON PIPING EXPOSED TO VIEW.
14. HOT AND COLD WATER PIPING SHALL BE TESTED HYDROSTATICALLY TO 1 1/2 TIMES ITS NORMAL WORKING PRESSURE OR 100 PSI WHICHEVER IS GREATER, FOR A MINIMUM OF 2 HOURS. REPAIR ANY LEAKS AND REPEAT SAME TO THE SATISFACTION OF THE ENGINEER AND OWNER.
15. DISINFECT DOMESTIC WATER PIPING IN ACCORDANCE WITH GOVERNING CODES HAVING JURISDICTION.
16. COORDINATE SANITARY WORK WITH GC AND FACILITY MANAGER. ALL SANITARY AND VENT PIPING TO BE LOCATED AND ROUTED IN FIELD. ALL VENT AND SANITARY PIPING TO BE CONNECTED TO EXISTING BUILDING SANITARY.
17. PITCH ALL SANITARY PIPING IN DIRECTION OF FLOW A MINIMUM OF 1/4" PER FOOT. PROVIDE CLEAN OUTS IN SANITARY PIPING AT ALL CHANGES IN DIRECTION IN HORIZONTAL PIPING.
18. PROVIDE ACCESS DOORS IN WALLS, CEILINGS AND FLOORS AS REQUIRED FOR SERVICING VALVES, CLEAN OUTS AND ITEMS REQUIRING MAINTENANCE.
19. TEST ALL PIPING IN ACCORDANCE WITH N.Y.S. PLUMBING CODE AND GOVERNING AUTHORITY HAVING JURISDICTION.
20. TEST AND ADJUST AS REQUIRED ALL EQUIPMENT AND PIPING IN ACCORDANCE WITH ALL APPLICABLE CODES, AND MANUFACTURERS RECOMMENDATIONS, FOR COMPLETE FUNCTIONING SYSTEM.
21. UPON COMPLETION OF ALL WORK, ALL EQUIPMENT, FIXTURES, PIPING, ETC. SHALL BE THOROUGHLY CLEANED AND LEFT IN FIRST CLASS CONDITION.

| LEGEND | |
|---|-------------------------------|
| SYMBOL | DESCRIPTION |
|  | EXISTING WORK BY OTHERS |
|  | WORK TO BE PROVIDED |
|  | POINT OF CONNECTION |
|  | POINT OF DISCONNECTION |
|  | RISER |
|  | ELBOW DOWN |
|  | BALL VALVE |
| CW | COLD WATER |
| EW | EFFLUENT WATER |
| V | VENT |
|  | HOSE BIB |
|  | ISOLATION VALVE |
| SAN | SANITARY |
| FD | FLOOR DRAIN |
| CO | CLEANOUT |
| FCO | FLOOR CLEAN OUT |
| WCO | WALL CLEANOUT |
| VTR | VENT THROUGH ROOF |
| ETR | EXISTING TO REMAIN |
|  | DENOTES REDUCED PRESSURE ZONE |
| | |

NOTE: ALL WORK IS TO BE PROVIDED UNLESS OTHERWISE NOTED

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|-----|------------|---------|-----|---|------------|
| | | | | PROJECT ENGINEER: | R. FROST |
| | | | | DESIGNED BY: | J. ROSS |
| | | | | DRAWN BY: | K. TREANOR |
| | | | | CHECKED BY: | G. LYNCH |
| 0 | BID | 06/2024 | pds | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE  | |
| REV | ISSUED FOR | DATE | BY | | |

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| DESIGNED BY: | J. ROSS |
| DRAWN BY: | K. TREANOR |
| CHECKED BY: | G. LYNCH |

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FOR BID



Hazen

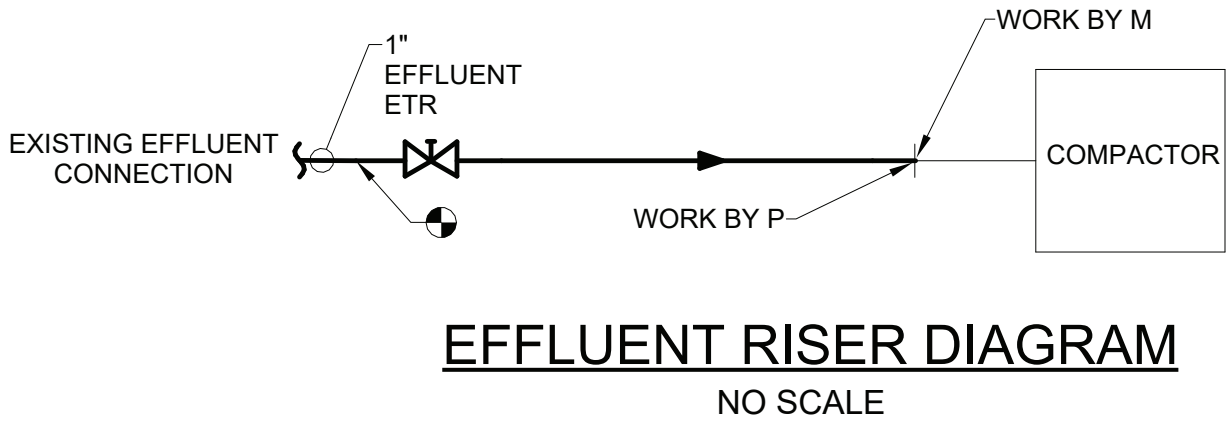
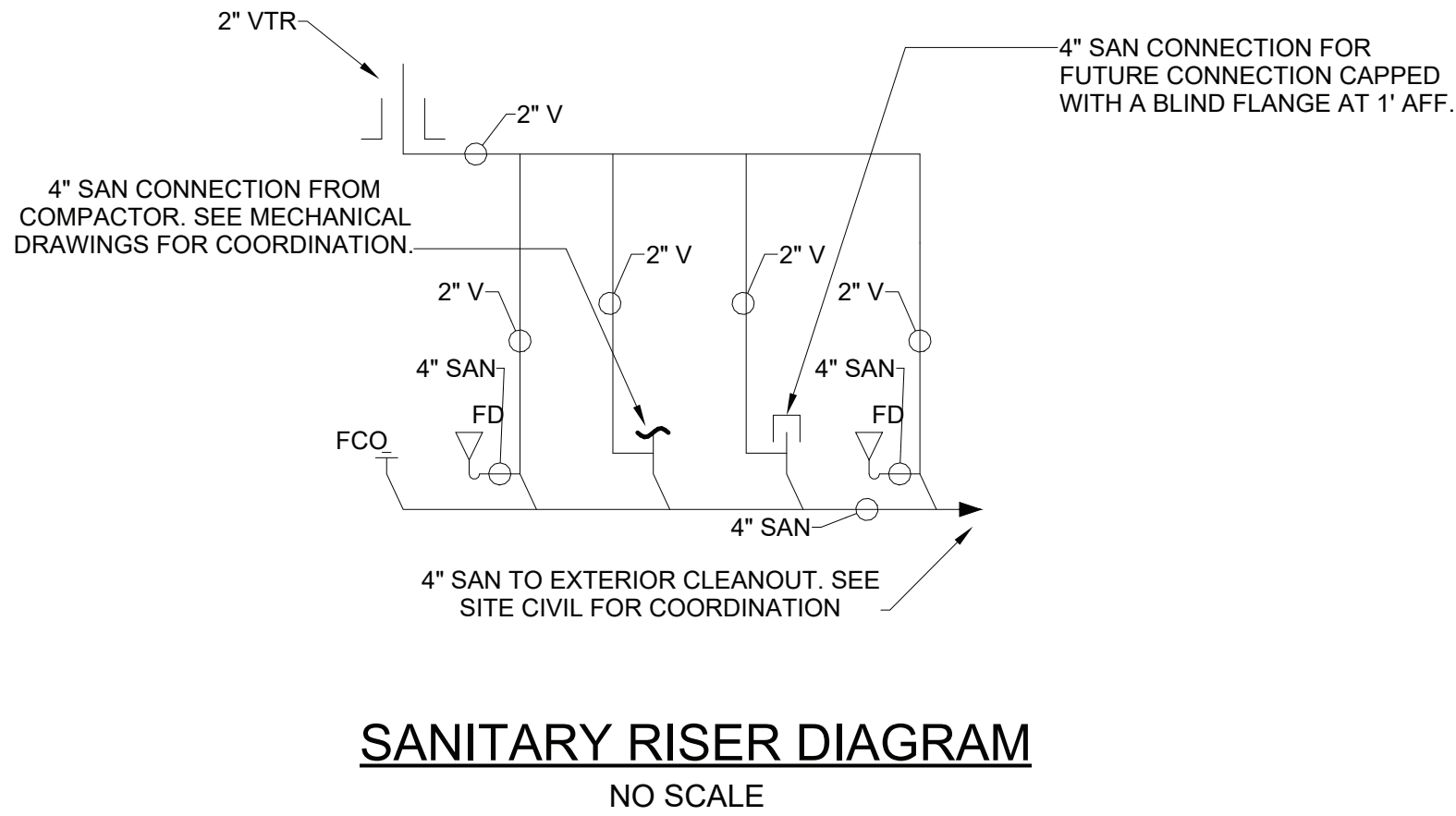
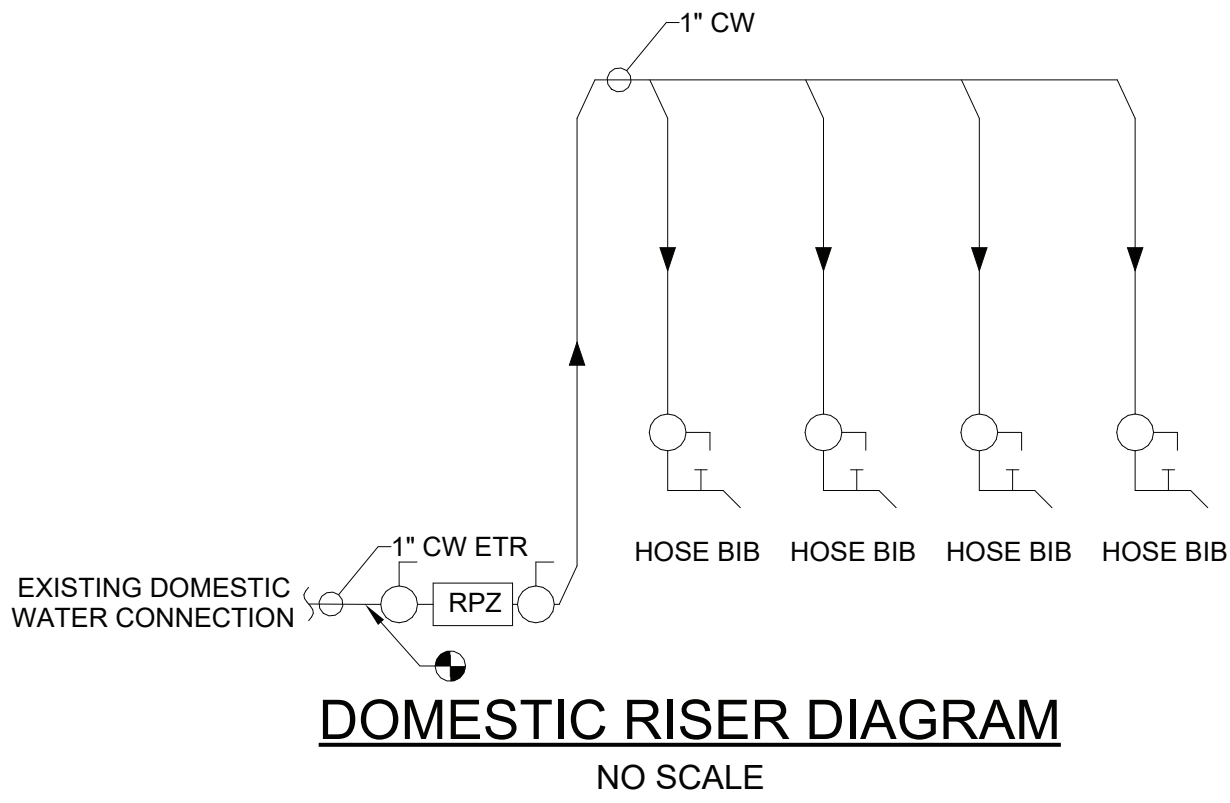
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING NOTES AND LEGEND

| | |
|--------------------|--------------------|
| DATE: | JUNE 2024 |
| HAZEN NO.: | 90462-000 |
| CONT NO.: | RFB-RC-SWR-2023-06 |
| DRAWING NUMBER: | P-01 |



Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

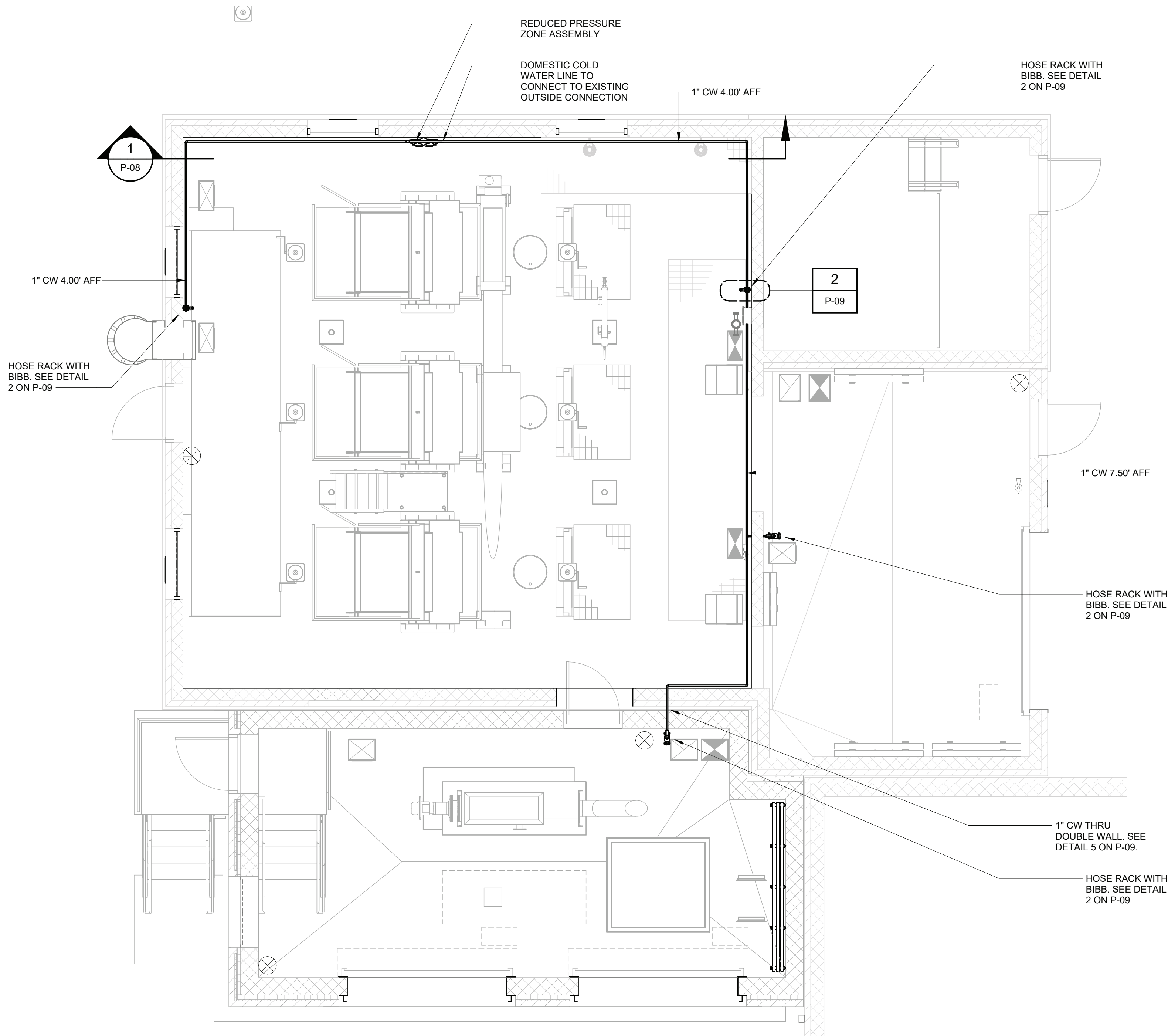
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING
RISER DIAGRAMS

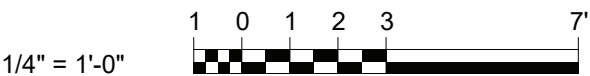
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| DATE: | JUNE 2024 |
| HAZEN NO.: | 90462-000 |
| CONT NO.: | RFB-RC-SWR-2023-06 |
| DRAWING NUMBER: | P-02 |

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DOMESTIC PLAN EL 70.50

1/4" = 1'-0"



| REV | ISSUED FOR | DATE | BY |
|-----|------------|---------|-----|
| 0 | BID | 06/2024 | pds |

| | |
|------------------------------------|------------|
| PROJECT ENGINEER: | R. FROST |
| DESIGNED BY: | J. ROSS |
| DRAWN BY: | K. TREANOR |
| CHECKED BY: | G. LYNCH |
| IF THIS BAR DOES NOT MEASURE 1\"/> | |

FOR BID

Hazen

HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

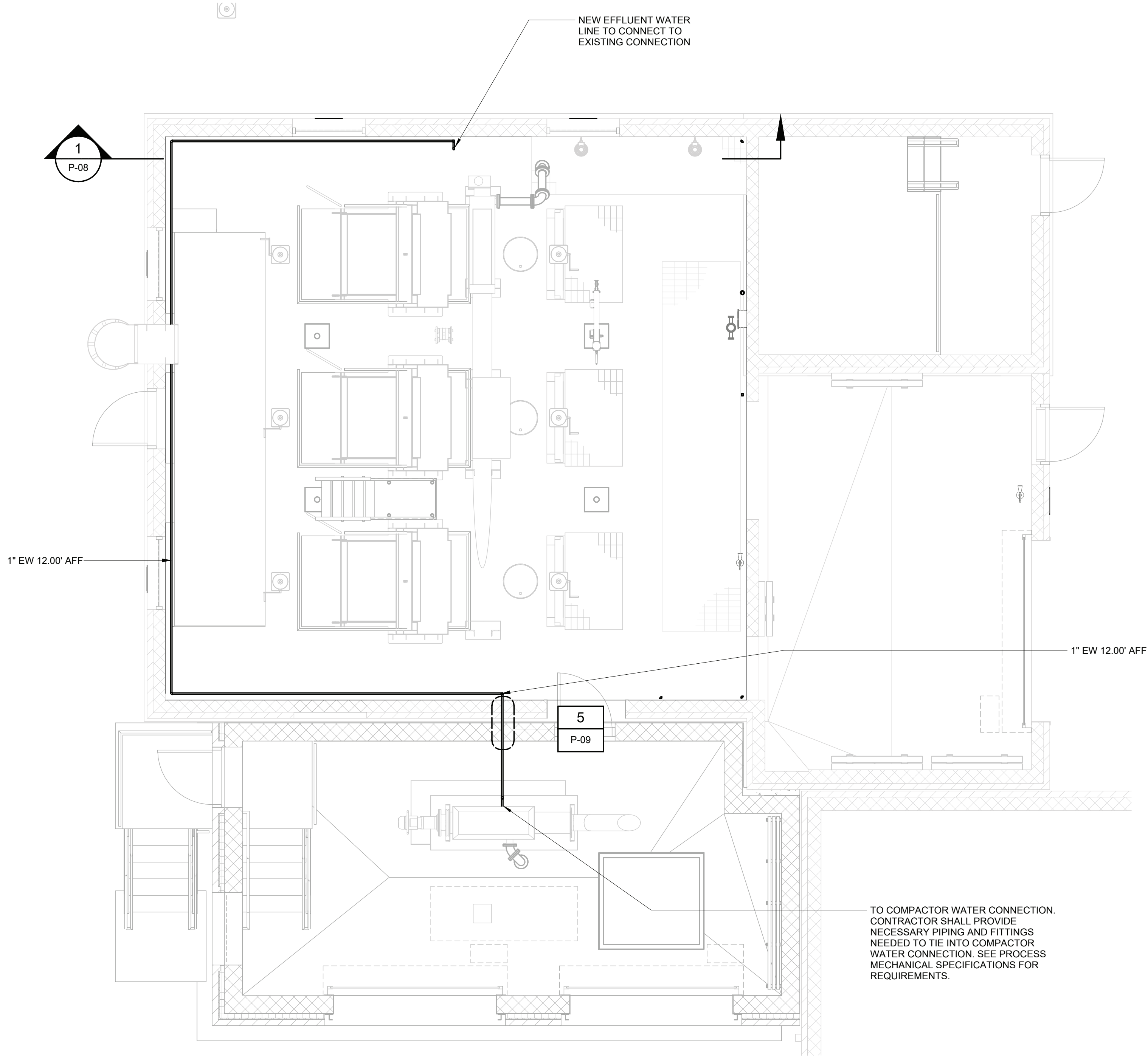
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING
DOMESTIC PLAN EL 70.50

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| DATE: | JUNE 2024 |
| HAZEN NO.: | 90462-000 |
| CONT NO.: | RFB-RC-SWR-2023-06 |
| DRAWING NUMBER: | P-03 |

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EFFLUENT PLAN EL 70.50
1/4" = 1'-0"



| REV | ISSUED FOR | DATE | BY |
|-----|------------|---------|-----|
| 0 | BID | 06/2024 | pds |

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|------------------------------------|------------|
| PROJECT ENGINEER: | R. FROST |
| DESIGNED BY: | J. ROSS |
| DRAWN BY: | K. TREANOR |
| CHECKED BY: | G. LYNCH |
| IF THIS BAR DOES NOT MEASURE 1\"/> | |

FOR BID

Hazen

HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

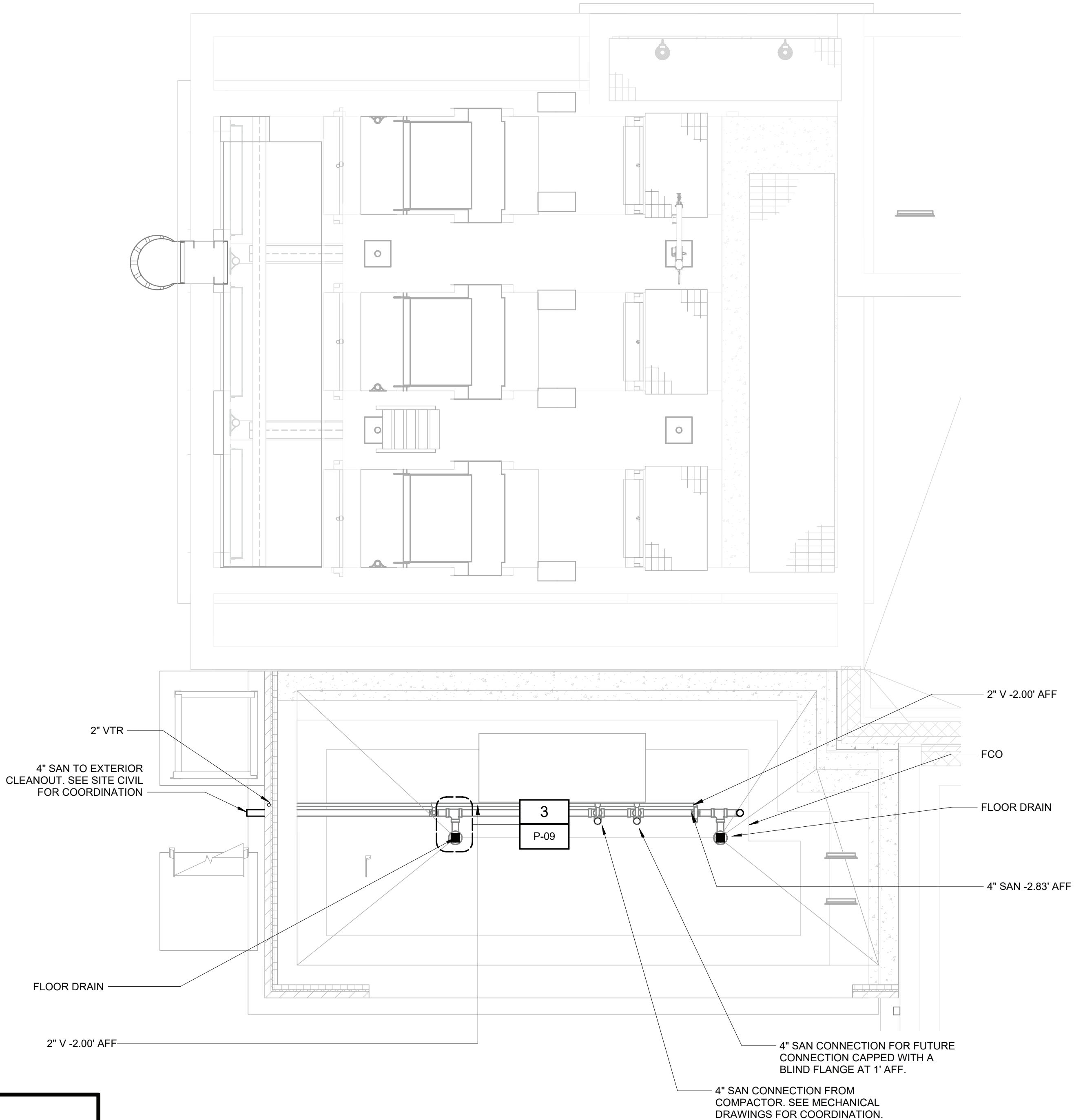
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING
EFFLUENT PLAN EL 70.50

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|-----------------|--------------------|
| DATE: | JUNE 2024 |
| HAZEN NO.: | 90462-000 |
| CONT NO.: | RFB-RC-SWR-2023-06 |
| DRAWING NUMBER: | P-04 |

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SANITARY PLAN EL 66.50
1/4" = 1'-0"



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| 0 | BID | 06/2024 | pds |
| REV | ISSUED FOR | DATE | BY |

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| PROJECT ENGINEER: | R. FROST |
| DESIGNED BY: | J. ROSS |
| DRAWN BY: | K. TREANOR |
| CHECKED BY: | G. LYNCH |
| IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | |



FOR BID

Hazen

Hazen and Sawyer
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

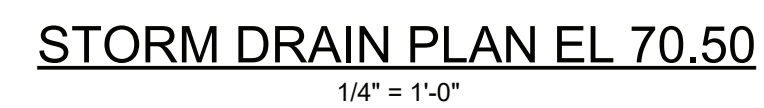
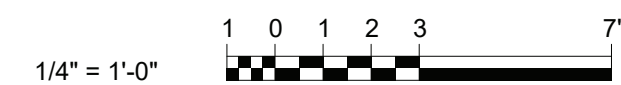
ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING
SANITARY PLAN EL 66.50

| | |
|-----------------|--------------------|
| DATE: | JUNE 2024 |
| HAZEN NO.: | 90462-000 |
| CONT NO.: | RFB-RC-SWR-2023-06 |
| DRAWING NUMBER: | P-05 |

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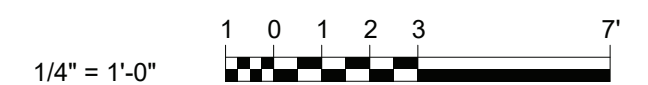
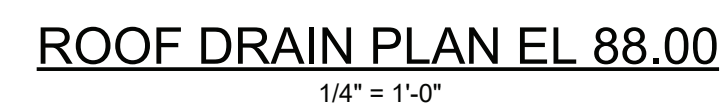

$$1/4'' = 1'-0''$$


FOR BID

The seal is circular with a double-lined border. The outer ring contains the text "STATE OF NEW YORK" at the top and "LICENSED PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal features a coat of arms with a shield, a sun rising over mountains, and a river. Above the coat of arms is the name "MICHAEL E. TAMBLYN" and below it is the license number "073737". A signature, "Michael E. Tamblyn", is written across the seal in cursive.

PLUMBING
STORM DRAIN PLAN EL 70.50

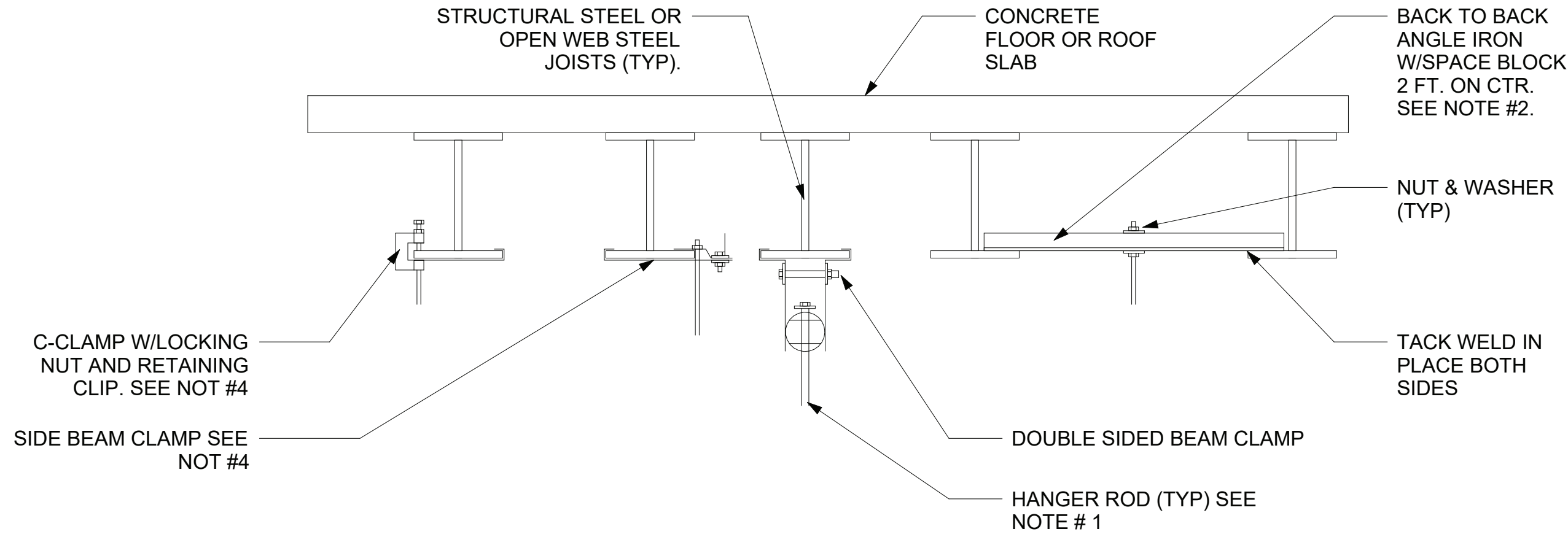
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|--------------------|--------------------|
| DATE: | JUNE 2024 |
| HAZEN NO.: | 90462-000 |
| CONT NO.: | RFB-RC-SWR-2023-06 |
| DRAWING NUMBER: | P-06 |



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|--------------------------------|--|--|--|---|--|---|--|--|--|---|--|---|--|--|--|
| | | | | <div>PROJECT ENGINEER: R. FROST</div> <div>DESIGNED BY: J. ROSS</div> <div>DRAWN BY: K. TREANOR</div> <div>CHECKED BY: G. LYNCH</div> <div>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE</div> <div><div>01/2"1"</div><div></div></div> | | <div>FOR BID</div> <div><div><div>STATE OF NEW YORK</div><div>MICHAEL E. TAMBUN</div><div><div></div><div>073737</div></div><div>LICENSED PROFESSIONAL ENGINEER</div></div></div> | | <div>Hazen</div> <div>HAZEN AND SAWYER</div> <div>498 SEVENTH AVENUE, 11th FLOOR</div> <div>NEW YORK, NEW YORK 10018</div> | | <div>ROCKLAND COUNTY SEWER DISTRICT NO.1</div> <div>ORANGEBURG, NEW YORK</div> <div>ORANGEBURG WASTEWATER TREATMENT PLANT</div> <div>SCREENING IMPROVEMENTS PROJECT</div> | | <div>PLUMBING</div> <div>ROOF DRAIN PLAN EL 88.00</div> | | <div>DATE: JUNE 2024</div> <div>HAZEN NO.: 90462-000</div> <div>CONT NO.: RFB-RC-SWR-2023-06</div> <div>DRAWING NUMBER: P-07</div> | |
| <div>0BID06/2024pds</div> | | | | | | | | | | | | | | | |
| <div>REVISSUED FORDATEBY</div> | | | | | | | | | | | | | | | |



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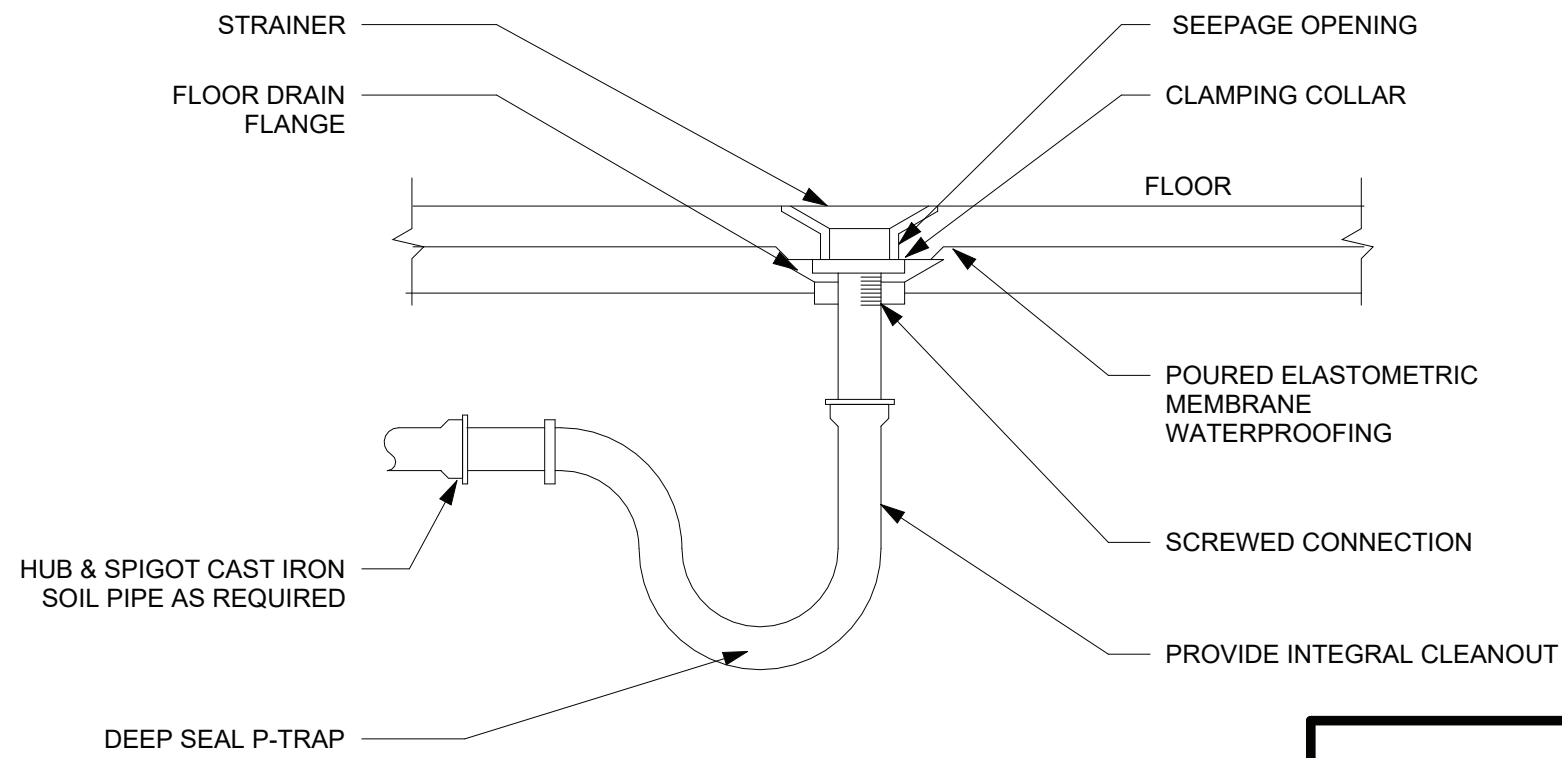


| INDIVIDUAL PIPE HANGER ROD & SPACING SCHEDULE | | | | | | | | | | | | |
|---|-----|-----|-------|-----|-------|-----|-----|-----|-----|-----|-----|-----|
| NOMINAL PIPE OR TUBE SIZE- INCHES | 3/4 | 1 | 1 1/2 | 2 | 2 1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| HANGER ROD SIZES - INCHES | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 1/2 | 5/8 | 5/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| MAXIMUM SPACING BETWEEN PIPE SUPPORTS- FEET | 6 | 7 | 9 | 10 | 11 | 12 | 14 | 16 | 17 | 19 | 22 | 23 |
| MAXIMUM SPACING BETWEEN COPPER TUBE SUPPORTS - FEET | 6 | 6 | 8 | 9 | 10 | 10 | 12 | 14 | 14 | 16 | 18 | 20 |
| NOTES: TRAPEZE HANGER SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE. TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF SAFETY OF 5 FOR CENTER OF SPAN CONCENTRATED LOAD. | | | | | | | | | | | | |

- NOTES:
- REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENED EQUIPMENT PRVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
 - FOR PIPES UNDER 2" US A SINGLE 1-1/2"x1-1/2"x1/4" ANGLE IRON WITH C-CLAMP. FOR PIPES 2-1/2" AND LARGER USE 3"x2"x1/4" ANGLE IRON BACK TO BACK AS SHOWN.
 - REPAIR OF FIRE PROOFING IN ORDER TO FACILITATE THE INSTALLATION OF HANGER RODS IN EXISTING CONSTRUCTION SHALL BE BY THE CONTRACTOR.
 - USE OF C-CLAMPS AND SIDE BEAM CLAMPS LIMITED TO PIPING 2-1/2" AND UNDER.

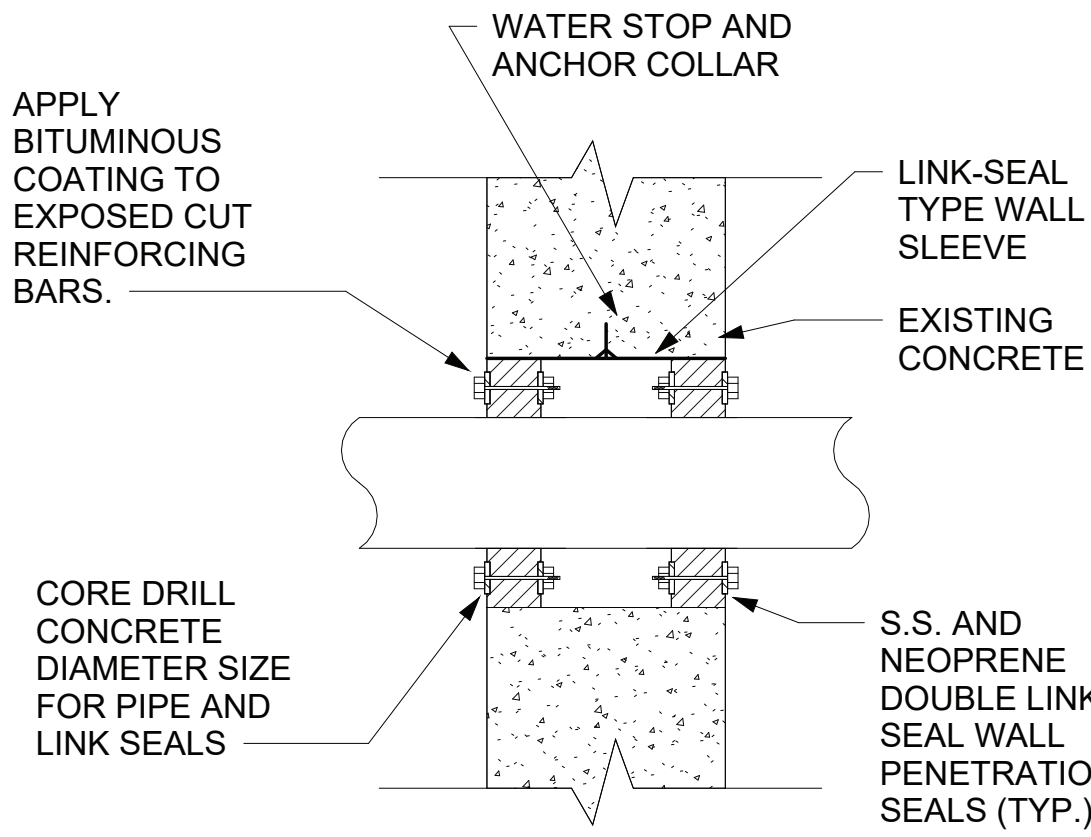
PIPE SUPPORT DETAIL

| DETAIL | 1 |
|--------|---|
| NTS | - |



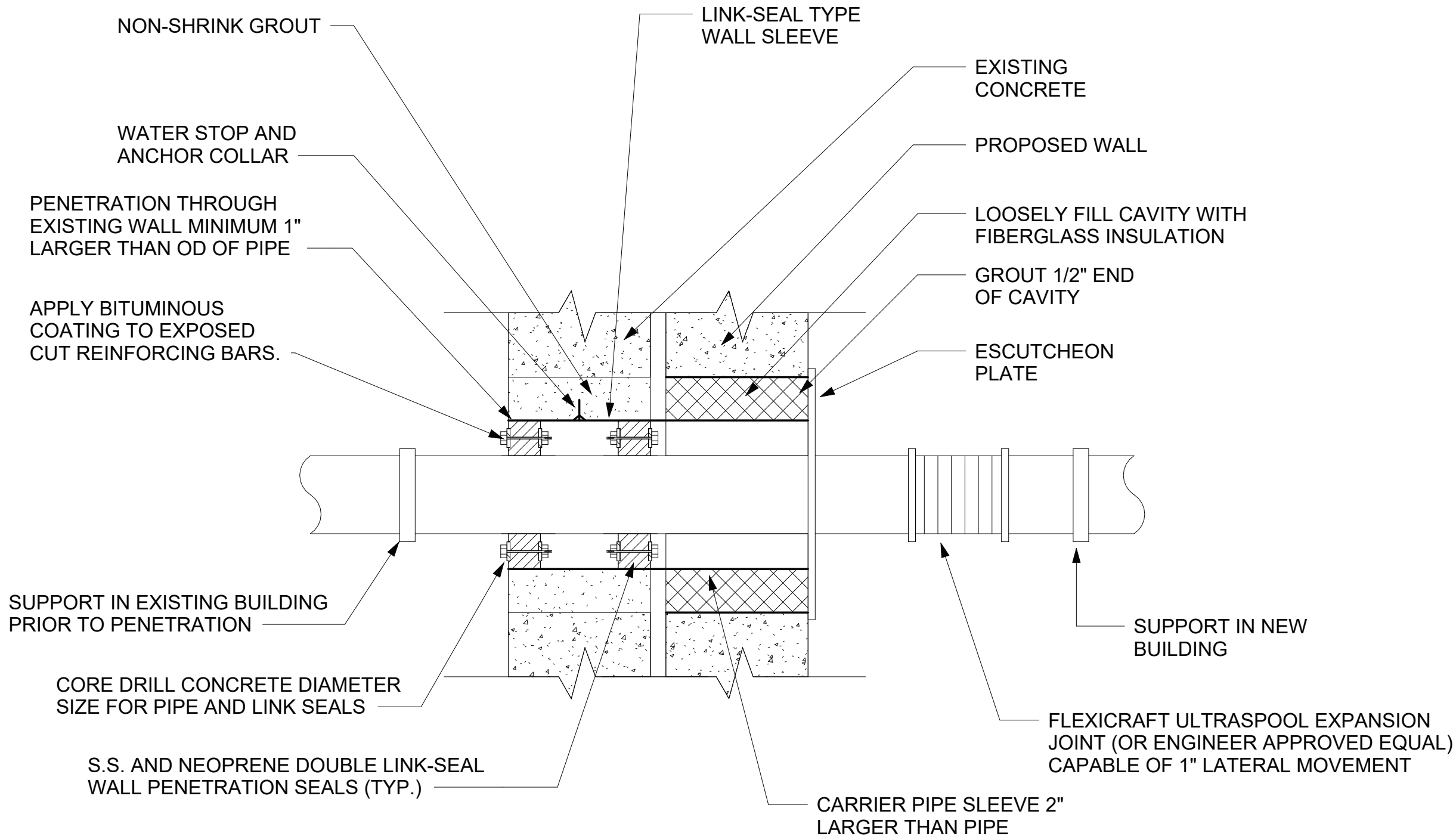
FLOOR DRAIN DETAIL

| DETAIL | 3 |
|--------|------|
| NTS | P-05 |



PIPE PENETRATION DETAIL

| DETAIL | 4 |
|--------|---|
| NTS | - |



DOUBLE WALL PIPE PENETRATION DETAIL

| DETAIL | 5 |
|--------|------|
| NTS | P-04 |

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ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

PLUMBING
DETAILS

| | |
|-----------------|--------------------|
| DATE: | JUNE 2024 |
| HAZEN NO.: | 90462-000 |
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| DRAWING NUMBER: | P-09 |