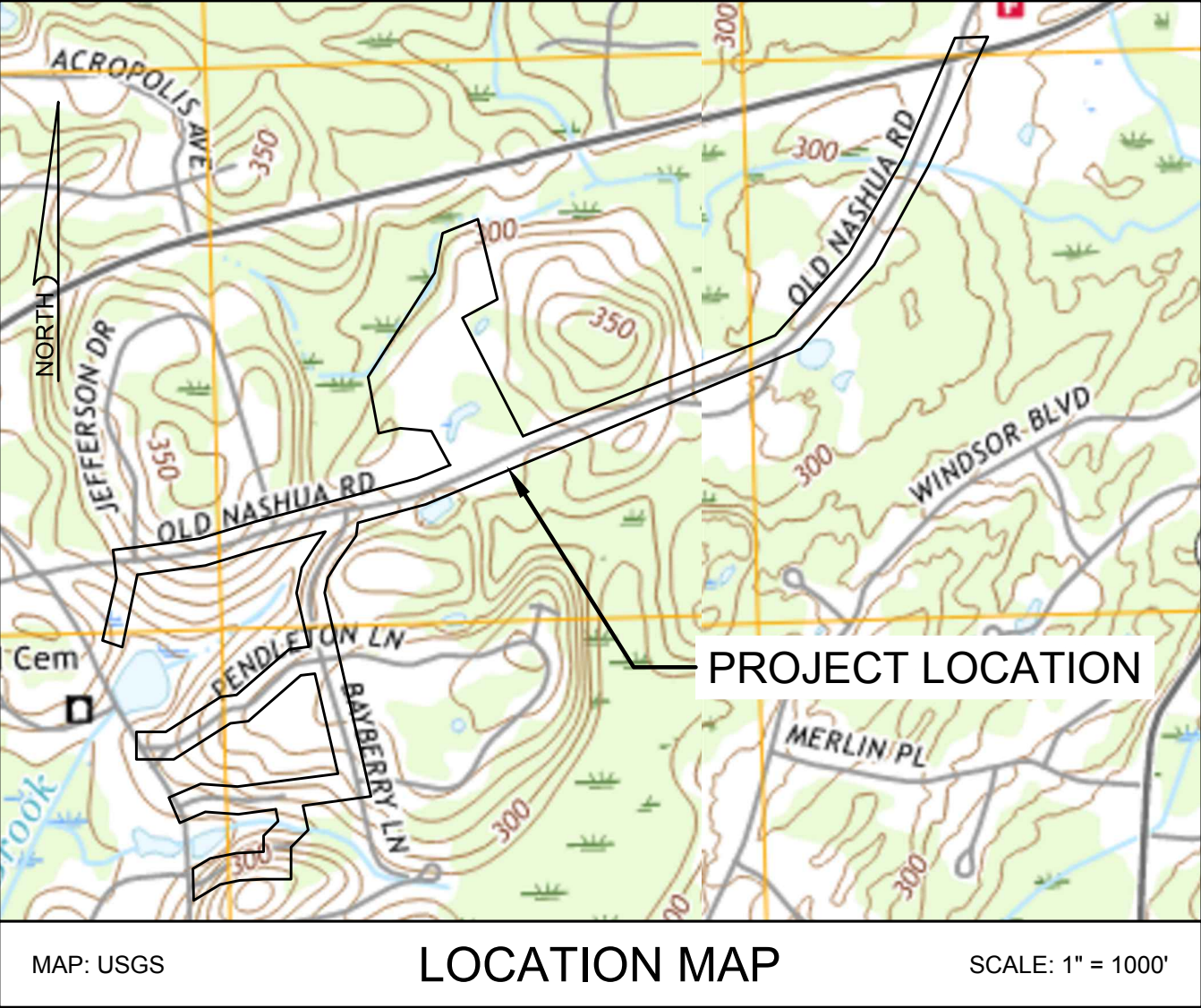
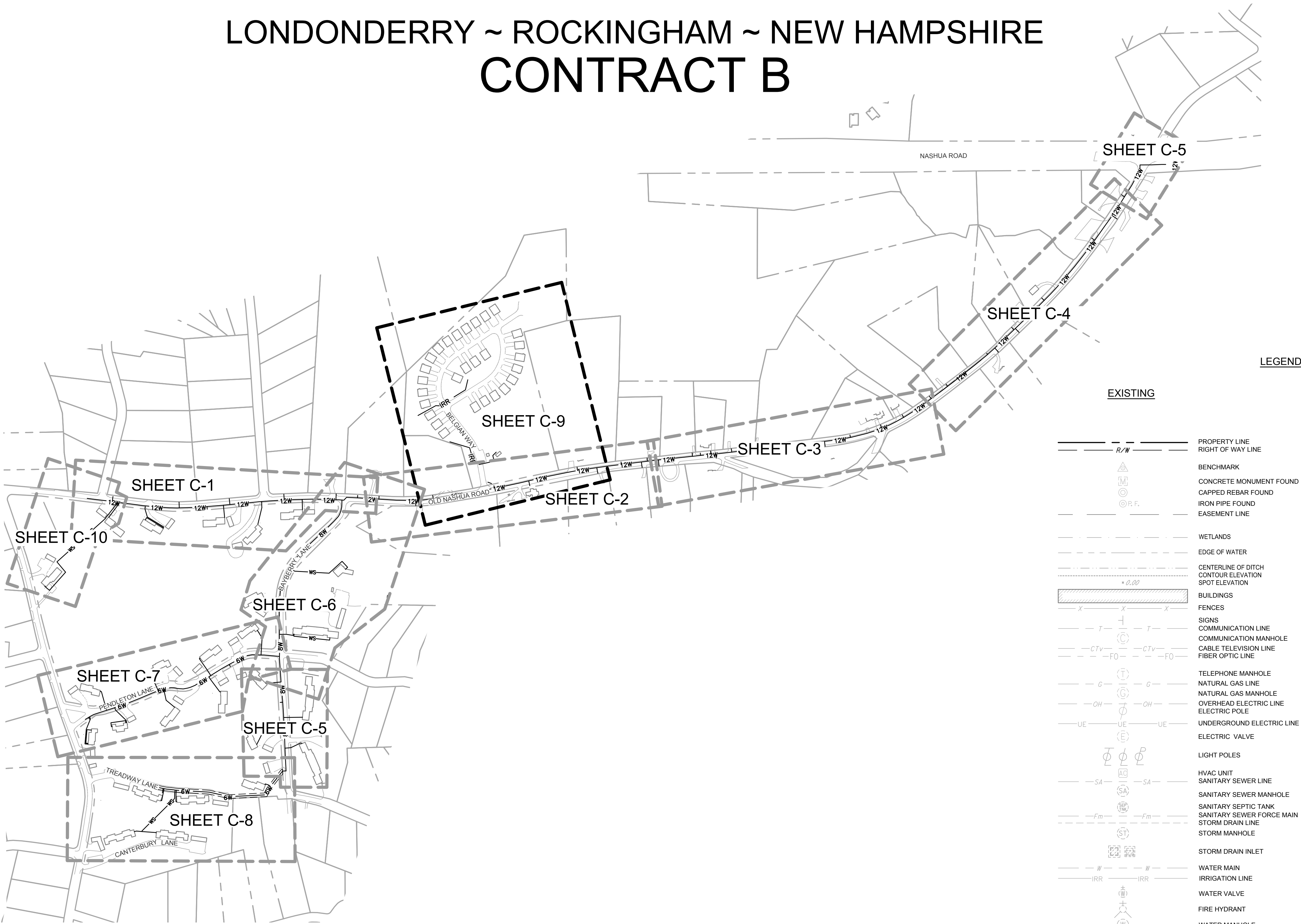


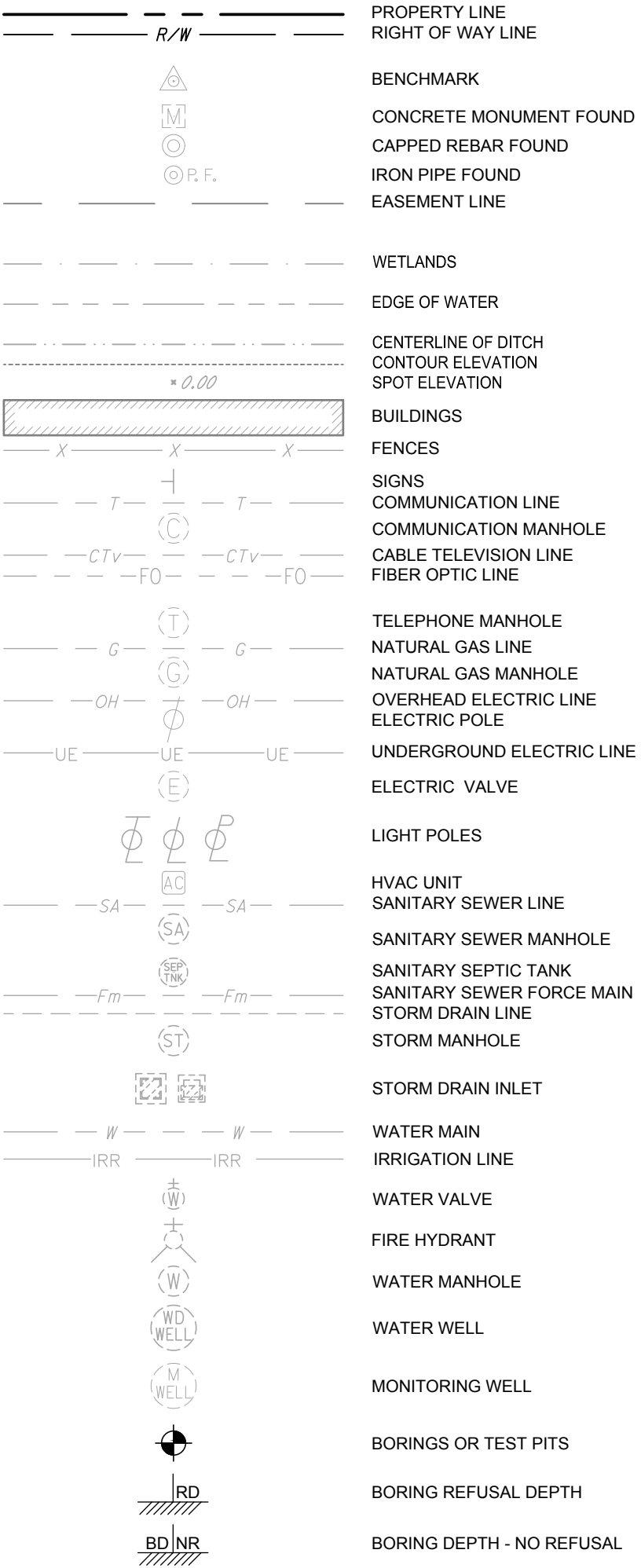


ROLLING MEADOW AND HANAFIN FARMS  
WATER MAIN INTERCONNECTION  
LONDONDERRY ~ ROCKINGHAM ~ NEW HAMPSHIRE  
CONTRACT B

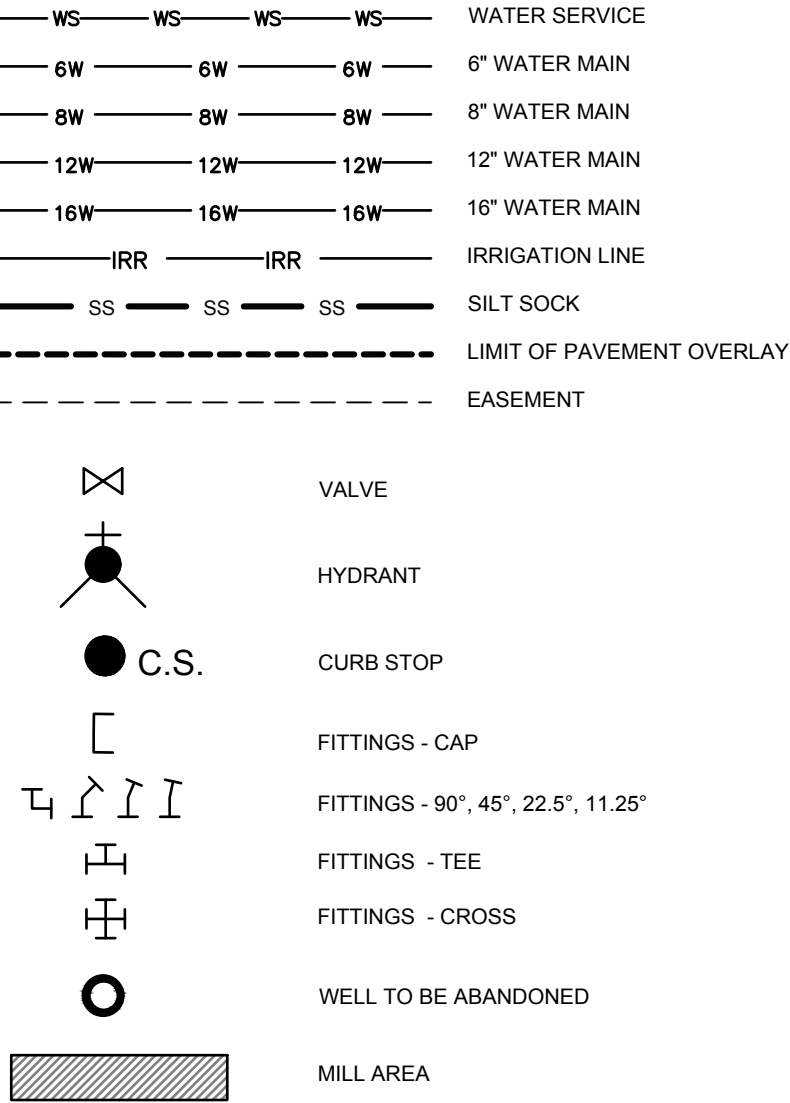


LEGEND

EXISTING



PROPOSED



SHEET LIST	
Sheet Number	Sheet Title
* G-1	COVER SHEET
* G-2	NOTES
* G-3	NHDES ENVIRONMENTAL REVIEW NOTES
C-1	PLAN AND PROFILE
C-2	PLAN AND PROFILE
C-3	PLAN AND PROFILE
C-4	PLAN AND PROFILE
C-5	PLAN AND PROFILE
C-6	PLAN AND PROFILE
C-7	PLAN AND PROFILE
C-8	PLAN AND PROFILE
C-9	PLAN AND PROFILE
C-10	PLAN AND PROFILE
C-11	PLAN AND PROFILE DETAILS
* C-12	DETAILS
* C-13	DETAILS
* C-14	DETAILS
C-20	BUILDING DETAILS
C-21	BUILDING DETAILS
C-22	BUILDING DETAILS
C-23	BUILDING DETAILS
C-24	BUILDING DETAILS
C-25	BUILDING DETAILS
* C-26	HANAFIN PUMP HOUSE MODIFICATIONS DETAIL

SHEET LIST NOTES:  
\* INDICATES SHEETS INCLUDED IN THIS CONTRACT



verdantas

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STEVEN H. LEWANDOWSKI, P.E.

NEW HAMPSHIRE - P.E. No. 18448

03-04-2025

STATE: NH

DESIGNED BY  
RKM

DRAWN BY  
JTL

CHECKED BY  
SHL

PROJECT NO.  
16063

CHK'D BY  
SHL

DATE  
03-21-2025

REVISION

1 ISSUED FOR BIDDING

LONDONDERRY-ROCKINGHAM-NEW HAMPSHIRE  
ROLLING MEADOWS & HANAFIN FARMS  
WATER MAIN INTERCONNECTION  
COVER SHEET

DATE  
09-16-2024

SCALE  
1" = 300'

SHEET  
G-1



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SITE LAYOUT NOTES \*\*

1. THE CONTRACTOR IS REFERRED TO PROJECT SUPPLEMENTARY CONDITIONS OF THE SPECIFICATIONS REGARDING COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS.
2. EXISTING UTILITIES ARE SHOWN BASED ON INFORMATION AVAILABLE. LOCATIONS ARE NOT BASED ON A FIELD SURVEY. FIELD LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR MAY NEED TEST PIT IN ORDER TO DETERMINE THE LOCATION OF EXISTING UTILITIES.THE CONTRACTOR SHALL PROTECT ALL UTILITIES DURING CONSTRUCTION. ANY UTILITY DAMAGE SHALL BE PROMPTLY AND FULLY RESTORED TO THE SATISFACTION OF THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
3. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY.
4. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO THE UTILITY, RESPECTIVELY. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
5. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS AND STATIONING SHALL PREVAIL.
6. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN A MANNER CONSISTENT WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), N.H.D.O.T. STANDARDS, OR AS REQUIRED BY OWNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED EARTH SURFACES ARE TO BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL IS TO BE IN A MANNER THAT WILL MINIMIZE EROSION. MATERIALS AND METHODS USED FOR TEMPORARY EROSION CONTROL SHALL BE AS SPECIFIED BY THE "NEW HAMPSHIRE STORMWATER MANUAL" PREPARED BY THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES. REFER TO SPECIFICATION SECTION 02270.
8. COMPACTION TESTS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 01400. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF SUBSTANTIAL COMPLETION OF THE PROJECT WILL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
9. OPEN TRENCHES IN THE ROADWAY MUST BE BACKFILLED AT THE END OF THE WORKDAY, UNLESS PERMISSION IS GIVEN IN WRITING BY THE OWNER.
10. CONTRACTOR SHALL CONTROL DUST TO A TOLERABLE LIMIT AS OUTLINED IN SPECIFICATION SECTION 02550. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH AND DEBRIS ON PUBLIC STREETS OUTSIDE THE PROJECT AREA. STREETS OPENED TO THE PUBLIC SHALL BE KEPT SWEEP AND FREE OF DEBRIS EACH DAY AT THE BEGINNING AND END OF WORK DAY. CROSS STREETS THAT BOUND THE PROJECT AREA WILL BE SWEEP AT LEAST ONCE EACH WEEK OR AS DIRECTED BY THE ENGINEER.
11. ALL AREAS (EXCEPT GRAVEL DRIVEWAYS) THAT ARE EXCAVATED, FILLED OR OTHERWISE DISTURBED BY THE CONTRACTOR AND ARE NOT TO BE PAVED OR FILLED WITH RIPRAP, SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED, UNLESS OTHERWISE DETAILED IN THE PLANS OR PERMIT CONDITIONS.
12. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
13. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES WITHIN THE CONSTRUCTION AREA UNLESS THEY ARE NOTED TO BE REMOVED.
14. LIMITS OF WORK IN EXISTING DRIVES AS SHOWN ON THE PLANS ARE APPROXIMATE. ACTUAL LIMITS OF WORK ARE TO BE DETERMINED IN THE FIELD BASED ON THESE DRAWINGS AND AS APPROVED BY THE ENGINEER.
15. EXISTING SIGNS IMPACTED BY THIS PROJECT SHALL BE RESET AT NO ADDITIONAL COST TO THE OWNER. PLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD OR RELEVANT TOWN REQUIREMENTS.
16. ALL DUCTILE IRON WATER MAIN, VALVES AND FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE ENCASEMENT PROTECTION WRAP (POLY WRAP). REFER TO SPEC. SECTION 01625.
17. PROPOSED HYDRANTS SHALL BE INSTALLED AT A MINIMUM OF 8 FEET FROM EDGE OF PAVEMENT.
18. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THE TOWN'S EXISTING INFRASTRUCTURE AND OTHER UTILITIES FROM DAMAGE DURING LEDGE EXCAVATION.
19. THE CONTRACTOR SHALL OBTAIN A NHDOT EXCAVATION PERMIT PRIOR TO ANY EXCAVATION WITHIN THE STATE ROUTE 102 RIGHT OF WAY. A COPY OF THIS PERMIT AND ANY BONDS REQUIRED BY NHDOT SHALL BE PROVIDED TO THE TOWN OF LONDONDERRY, PENNICHUCK WATER AND ENGINEER.
20. SHOULD CONTINGENCY ITEM #7-20 HDPE DIRECTIONAL DRILL BE SELECTED TO CROSS THE EXISTING KINDER MORGAN GAS LINES, THE CONTRACTOR SHALL SUBMIT A WORK PLAN AND DETAILED TRAFFIC CONTROL PLAN TO THE TOWN OF LONDONDERRY, PENNICHUCK WATER WORKS, KINDER MORGAN, AND ENGINEER FOR APPROVAL PRIOR TO THE HDPE DIRECTIONAL DRILL.

SURVEY NOTES \*\*

1. PARCEL DATA SHOWN ON THESE DRAWINGS IS DERIVED FROM THE NEW HAMPSHIRE GEODATA PORTAL.
2. WETLANDS SHOWN ON THESE DRAWINGS IS DERIVED FROM THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES GEODATA PORTAL .
3. THIS SURVEY IS SUBJECT TO FACTS AS AN ACCURATE TITLE SEARCH MIGHT DISCLOSE.
4. THIS SURVEY IS SUBJECT TO ANY AND ALL EASEMENTS AND RESTRICTIONS OF RECORD.
5. THIS PLAN DOES NOT SHOW ANY WETLANDS OR WETLANDS BUFFERS THAT MAY EXIST ON OR NEAR THE SUBJECT PROPERTY.
6. THE CERTIFICATION SHOWN IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

CIVIL DEMOLITION NOTES \*\*

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEMOLISHED PIPING, EQUIPMENT AND MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE OWNER RESERVES THE RIGHT TO RETAIN ANY SUCH PIPING, EQUIPMENT AND MATERIALS DESIGNATED FOR DEMOLITION FOR THEIR USE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROPRIATE DISPOSAL OF FLOWS RESULTING FROM PRECIPITATION AND HIS DEWATERING OPERATIONS.

TENNESSEE GAS PIPELINE COMPANY  
(KINDER MORGAN) NOTES \*

1. CONTRACTOR SHALL COMPLY WITH ALL GUIDELINES FOR DESIGN AND CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES. KINDER MORGAN MAY IMMEDIATELY SUSPEND OR TERMINATE ANY WORK ACTIVITY NOT BEING PERFORMED IN ACCORDANCE WITH THESE GUIDELINES.
2. THE CONTINUED INTEGRITY OF KINDER MORGAN'S PIPELINES AND THE SAFETY OF ALL INDIVIDUALS IN THE AREA OF PROPOSED WORK NEAR KINDER MORGAN'S FACILITIES ARE OF THE UTMOST IMPORTANCE. THEREFORE, CONTRACTOR MUST MEET WITH KINDER MORGAN REPRESENTATIVES PRIOR TO CONSTRUCTION TO PROVIDE AND RECEIVE NOTIFICATION LISTINGS FOR APPROPRIATE AREA OPERATIONS AND EMERGENCY PERSONNEL. KINDER MORGAN'S ON-SITE REPRESENTATIVE WILL REQUIRE DISCONTINUATION OF ANY WORK THAT, IN HIS OPINION, ENDANGERS THE OPERATIONS OR SAFETY OF PERSONNEL, PIPELINES OR FACILITIES.
3. KINDER MORGAN SHALL HAVE STOP WORK AUTHORITY IF ANY POTENTIAL DAMAGE COULD OCCUR TO THE KINDER MORGAN FACILITIES.
4. KINDER MORGAN REQUIRES THE CONTRACTOR TO SUBMIT NEW HAMPSHIRE ONE CALL (811) TICKETS FOR EACH PHASE OF THE PROJECT THAT INVOLVES EARTH DISTURBANCE.
5. ALL EXCAVATION ACTIVITY IS TO BE DONE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. KINDER MORGAN'S REPRESENTATIVE MAY BE REQUIRED TO ENTER AN EXCAVATION FOR PURPOSES OF PERFORMING REQUIRED INSPECTIONS AND WILL NOT DO SO IF THE EXCAVATION DOES NOT MEET THE MINIMUM OSHA STANDARDS. THE FAILURE TO PROVIDE A SAFE WORK ENVIRONMENT COULD RESULT IN SUSPENSION OF WORK WILL ALL COSTS RELATED TO SUCH TO BE BORNE BY THE CONTRACTOR.
8. NOTIFICATION SHALL BE GIVEN TO KINDER MORGAN AT LEAST TEN (10) BUSINESS DAYS PRIOR TO ANY WOK ON OR NEAR KINDER MORGAN PIPELINE AND/OR WITHIN ITS RIGHT OF WAY AND EASEMENT. A SCHEDULE OF ACTIVITIES FOR THE DURATION OF THE PROJECT MUST BE MADE AVAILABLE AT THAT TIME TO FACILITATE THE SCHEDULING OF KINDER MORGAN'S WORK SITE REPRESENTATIVE. ANY CONTRACTOR SCHEDULE CHANGES SHALL BE PROVIDED TO KINDER MORGAN IMMEDIATELY.
9. TEST PITS MUST BE COMPLETED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO CONFIRM THE ELEVATION OF PIPELINES.
10. CONFIRMATION OF PREFERRED CROSSING METHOD MUST BE SENT TO TENNESSEE GAS SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF WORK.
11. KINDER MORGAN REPRESENTATIVE SHALL BE ON-SITE TO MONITOR ANY CONSTRUCTION ACTIVITIES WITHIN 25-FEET OF A KINDER MORGAN PIPELINE AND ITS RIGHT OF WAY AND EASEMENT. THE CONTRACTOR SHALL NOT WORK WITHIN THIS DISTANCE WITHOUT A KINDER MORGAN REPRESENTATIVE BEING ON SITE. KINDER MORGAN ON-SITE INSPECTOR WILL BE PROVIDED AT THE EXPENSE OF THE CONTRACTOR.
12. THE CONTRACTOR MUST EXPOSE ALL KINDER MORGAN TRANSMISSION AND DISTRIBUTION LINES PRIOR TO CROSSING TO DETERMINE THE EXACT ALIGNMENT AND DEPTH OF THE LINES. A KINDER MORGAN REPRESENTATIVE MUST BE PRESENT. IN THE EVENT OF PARALLEL LINES, ONLY ONE PIPELINE CAN BE EXPOSED AT A TIME.
13. KINDER MORGAN WILL NOT ALLOW PIPELINES TO REMAIN EXPOSED OVERNIGHT WITHOUT CONSENT OF KINDER MORGAN DESIGNATED REPRESENTATIVE. CONTRACTOR MAY BE REQUIRED TO BACKFILL PIPELINES AT THE END OF EACH DAY.
14. PRIOR TO THE USE OF AN EXCAVATOR, THE OPERATOR SHALL ENSURE THAT A PROBE BAR AND/OR SHOVEL IS USED TO VERIFY THAT NO PIPELINE OR OTHER FACILITIES COULD BE STRUCK BY THE EXCAVATION. THIS PROCESS SHALL BE REPEATED AS NECESSARY UNTIL THE PIPELINE OR OTHER FACILITIES ARE POSITIVELY LOCATED.
15. EXCAVATIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF KINDER MORGAN, OR THEIR RESPECTIVE DESIGNEE. MACHINE EXCAVATION NEAR PIPELINE FACILITIES SHALL BE PERFORMED WITH THE ASSISTANCE OF AN OBSERVER (SPOTTER) OR ENCROACHMENT MONITOR.
16. BEFORE MACHINE EXCAVATION OCCURS WITHIN 24 INCHES (IN ANY DIRECTION) OF A PIPELINE FACILITY, THE PIPELINE FACILITY SHALL BE POSITIVELY LOCATED USING METHODS SUCH AS HYDROVAC, HAND DIGGING, POT-HOLING OR PROBING. UNTIL THE PIPELINE IS EXPOSED, MACHINE EXCAVATION SHALL BE ACCOMPLISHED WITH THE ASSISTANCE OF AN OBSERVER AND SHALL BE NO CLOSER THAN 24 INCHES (IN ANY DIRECTION) FROM THE PIPELINE FACILITY. THE REMAINING COVER SHOULD BE CHECKED INTERMITTENTLY. THE FACILITY SHALL THEN BE EXPOSED ON THE TOP AND SIDES BY HAND EXCAVATION, HYDROVAC, OR OTHER NON-INVASIVE METHODS. AFTER A FACILITY HAS BEEN EXPOSED, MACHINE EXCAVATION IS PERMITTED TO WITHIN 24 INCHES OF THE FACILITY, WITH THE ASSISTANCE OF AN OBSERVER. THE PIPELINE SHALL REMAIN EXPOSED AND CLEARLY VISIBLE TO THE OBSERVER AT ALL TIMES DURING MACHINE EXCAVATION. THE REMAINING EXCAVATION MUST BE HAND DUG OR REMOVED BY OTHER NON-INVASIVE METHODS.
17. FOR EXCAVATIONS WITHIN 24 INCHES OF A BURIED PIPELINE FACILITY, THE HOE BUCKET TEETH SHALL BE BARRED AND THE SIDE CUTTERS REMOVED OR APPROVED PADDED/LARED TEETH SHALL BE USED. IN THE EVENT SOIL CONDITIONS REQUIRE THE REMOVAL FO THE BAR OR USE OF THE SIDE CUTTTERS FOR EXCAVATION, THE CONTRACTOR SHALL SUBMIT A REQUEST IN WRITING OUTLINING THE LOCATION(S) FOR THE EXCEPTION, WITH REASON(S), AND SECURE THE APPROVAL FROM THE KINDER MORGAN TECHNICIAN. SUCH EXCAVATIONS SHALL BE DONE WITH AN OBSERVER AND SHALL BE UNDER THE DIRECT SUPERVISION OF THE ONSITE KINDER MORGAN TECHNICIAN.
18. THE KINDER MORGAN PIPELINES ARE COATED WITH A MATERIAL TO PROTECT IT FROM CORROSION. THE COATING MAY CONTAIN ASBESTOS. IF EXCAVATION RESULTS IN EXPOSING KINDER MORGAN'S PIPELINES AND THERE IS ANY DAMAGE TO THE COATING AS A RESULT OF THE EXCAVATION, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS, INCLUDING ANY DISPOSAL COSTS, ASSOCIATED WITH THE COATING REPAIR. IF NECESSARY, THE CONTRACTOR MUST HALT WORK WHILE THE COATING MATERIAL IS BEING ANALYZED. THE COATING REPAIR, INCLUDING THE REMOVAL OF THE ORIGINAL MATERIAL, WILL BE PERFORMED BY KINDER MORGAN PERSONNEL OR A QUALIFIED THIRD PARTY CONTRACTOR SELECTED BY KINDER MORGAN. ALL WORK WILL BE DONE IN ACCORDANCE WITH KINDER MORGAN STANDARDS. DURING THE COURSE OF THE EXCAVATION WORK, THE CONTRACTOR MUST COOPERATE WITH KINDER MORGAN TO ENSURE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL AND SAFETY REGULATIONS ARE FOLLOWED.
19. HEAVY EQUIPMENT WILL NOT BE ALLOWED TO OPERATE DIRECTLY OVER KINDER MORGAN PIPELINES. HEAVY EQUIPMENT SHALL ONLY BE ALLOWED TO CROSS KINDER MORGAN PIPELINES AT LOCATIONS DESIGNATED BY COMPANY. CONTRACTOR SHALL COMPLY WITH ALL PRECAUTIONARY MEASURES REQUIRED BY KINDER MORGAN TO PROTECT ITS PIPELINES. WHEN INCLEMENT WEATHER EXISTS, PROVISIONS MUST BE MADE TO COMPENSATE FOR SOIL DISPLACEMENT DUE TO SUBSIDENCE OF TIRES.
20. EXCAVATING OR GRADING WHICH MIGHT RESULT IN EROSION OR WHICH COULD RENDER THE KINDER MORGAN ROW INACCESSIBLE SHALL NOT BE PERMITTED UNLESS THE CONTRACTOR/DEVELOPER/OWNER AGREES TO RESTORE THE AREA TO ITS ORIGINAL CONDITION AND PROVIDE PROTECTION TO KINDER MORGAN'S FACILITY.
21. RIPPING IS ONLY ALLOWED WHEN THE POSITION OF THE PIPE IS KNOWN AND NOT WITHIN 10-FEET OF KINDER MORGAN FACILITY UNLESS KINDER MORGAN REPRESENTATIVE IS PRESENT.

22. ADEQUATE SUPPORT OR PROTECTION SHALL BE PROVIDED FOR ALL EXPOSED FACILITIES. TEMPORARY SUPPORT OF ANY EXPOSED KINDER MORGAN PIPELINE BY CONTRACTOR MAY BE NECESSARY IF REQUIRED BY KINDER MORGAN'S ON-SITE REPRESENTATIVE. BACKFILL BELOW THE EXPOSED LINES AND 12-INCHES ABOVE THE LINES SHALL BE REPLACED WITH SAND OR OTHER SELECTED MATERIAL AS APPROVED BY KINDER MORGAN'S ON-SITE REPRESENTATIVE AND THOROUGHLY COMPACTED IN 12-INCHES LIFTS TO 95% OF STANDARD PROCTOR DRY DENSITY MINIMUM OR AS APPROVED BY KINDER MORGAN'S ON-SITE REPRESENTATIVE. THIS IS TO ADEQUATELY PROTECT AGAINST STRESSES THAT MAY BE CAUSED BY THE SETTling OF THE PIPELINE.
23. ANY BLASTING WITHIN 300 FEET OF KINDER MORGAN'S EASEMENT WILL REQUIRE PRIOR WRITTEN APPROVAL BY KINDER MORGAN. THE CONTRACTOR SHALL ALLOW A MINIMUM OF FOUR WEEKS FOR REVIEW AND APPROVAL OF ALL BLASTING PLANS BY KINDER MORGAN. PLANS MUST MEET APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. KINDER MORGAN REQUIRES THE CONTRACTOR TO PROVIDE A LICENSED BLASTING INSPECTOR WHEN BLASTING OCCURS WITHIN 100' OF KINDER MORGAN'S EASEMENT. ALL COSTS ASSOCIATED WITH THIS INSPECTION WILL BE PAID IN ADVANCE TO KINDER MORGAN AND SHALL BE COVERED WITHIN THE TERMS OF SEPARATE AGREEMENT TO BE ENTERED INTO AND MONIES PAID PRIOR TO ANY BLASTING ACTIVITIES.
24. ALL UNDERGROUND UTILITIES CROSSING KINDER MORGAN PIPELINES MUST BE INSTALLED PERPENDICULAR TO KINDER MORGAN FACILITIES WITH AT LEAST 24 INCHES OF SEPARATION FROM THE PIPELINE AND AT THE SAME ELEVATION ACROSS THE ENTIRE EASEMENT AREA. ALL UTILITIES NEED TO BE SAND PADDED 12" AROUND THE PIPE, FOR THE ENTIRE WIDTH OF THE KINDER MORGAN EASEMENT. ANY METALLIC LINES, PIPES OR CABLES CROSSING PERPENDICULAR TO KINDER MORGAN FACILITIES MUST BE SHIELDED FROM KINDER MORGAN'S CATHODIC PROTECTION SYSTEMS. KINDER MORGAN REQUIRES THE UTILITY CROSSING TO BE EITHER ENCASED OR COATED WITH PLASTIC AS IT CROSSES THE ENTIRE WIDTH OF THE EASEMENT AREA.
25. PERMANENT SURFACE MARKERS DELINEATING THE LOCATION OF THE WATER MAIN WHERE IT CROSSES THE KINDER MORGAN HIGH PRESSURE GAS PIPELINE MUST BE INSTALLED.
26. KINDER MORGAN RESERVES THE RIGHT TO INSTALL DRILL HOLES WITHIN ANY PAVED SURFACE TO FACILITATE CORROSION MONITORING OF ITS FACILITIES. KINDER MORGAN SHALL NOT BE LIABLE FOR ANY DAMAGE AS A RESULT OF SAID DRILL HOLES.
27. ALL AREAS OF KINDER MORGAN'S EASEMENT DISTURBED BY THE CONTRACTOR MUST BE STABILIZED AS SOON AS POSSIBLE. THE EASEMENT AREA SHALL BE LIMED, FERTILIZED, SEEDED AND MULCHED IF NECESSARY. THEREAFTER AND UNTIL VEGETATION HAS BEEN ESTABLISHED, ANY AREAS WITHIN THE EASEMENT THAT SHOW SIGNS OF EROSION SHALL BE IMMEDIATELY REPAIRED.
28. ANY CONTACT WITH ANY KINDER MORGAN FACILITY, PIPELINE, VALVE SET, ETC. SHALL BE REPORTED IMMEDIATELY TO COMPANY. IF REPAIRS TO THE PIPE ARE NECESSARY, THEY WILL BE MADE AND INSPECTED BEFORE THE SECTION IS RE-COATED AND THE LINE IS BACK-FILLED.
29. ANY ASSOCIATED COST KINDER MORGAN MAY HAVE REGARDING THIS PROJECT OUTSIDE NORMAL COURSE OF BUSINESS WILL BE 100% REIMBURSABLE BY CONTRACTOR. UPON REQUEST, KINDER MORGAN WILL EXPLAIN WHAT SERVICES ARE PROVIDED AT NO COST AND GIVE CONTRACTOR AN ESTIMATE FOR THOSE REIMBURSABLE COSTS.
30. COMPLIANCE WITH KINDER MORGAN GUIDELINES DOES NOT SUGGEST OR IMPLY THAT THE CONTRACTOR OR ANY OTHER ASSOCIATED PARTY IS RELIEVED OF ANY RESPONSIBILITY OR LIABILITY IN THE EVENT KINDER MORGAN'S PIPELINE OR FACILITIES ARE DAMAGED IN ANY WAY BEFORE, DURING OR AFTER CONSTRUCTION. KINDER MORGAN WILL HOLD ALL PARTIES RESPONSIBLE FOR COSTS INCURRED FOR ANY BREACH OF PIPELINE OR FACILITY INTEGRITY.
31. KINDER MORGAN IS NOW AND WILL CONTINUE TO UTILIZE THE LAND INCLUDED WITHIN SAID EASEMENT FOR PIPELINE PURPOSES AND MAY AT ANY TIME, OR FROM TIME TO TIME, ENTER UPON SAID LAND, PLACE AND TRANSPORT MACHINERY AND EQUIPMENT THEREON, AND EXCAVATE TRENCHES AND DITCHES THEREON; AND IN SUCH EVENT, KINDER MORGAN, EXCEPT FOR NORMAL BACKFILLING, WILL NTO RESTORE THE SURFACE, INCLUDING ANY IMPROVEMENTS CONSTRUCTED.
32. KINDER MORGAN PERSONNEL SHALL INSTALL ALL TEST LEADS ON KINDER MORGAN FACILITIES.
33. BURNING OF TRASH, BRUSH, ETC. IS NOT PERMITTED WITHIN THE KINDER MORGAN ROW

PIPELINE NOTES \*\*

1. PROVIDE 2 INCH RIGID INSULATION WHERE DIRECTED BY OWNER OR ENGINEER. TYPICAL INSULATION INSTALLATION IS OVER SEWER AND WATER MAINS WHEN COVER IS LESS THAN 5'-0".
2. MINIMUM DEPTH OF COVER FOR WATER MAIN SHALL BE 5'-0". PIPE RESTRAINT FOR WATER MAINS: ALL BENDS, TEES, REDUCERS, HYDRANTS, AND PLUGS SHALL BE RESTRAINED BY USING MEGA-LUGS AND "GRIP RINGS" OR OTHER METHOD AS SHOWN ON THE DRAWINGS. ANY AND ALL FITTINGS WITHIN 10' OF ANOTHER FITTING MUST BE RESTRAINED WITH STAINLESS STEEL THREADED ROD. THERE SHALL BE A MINIMUM OF 2-3/4" STAINLESS STEEL RODS WITH STAINLESS STEEL NUTS AND HARDWARE. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUCTILE LUGS UNLESS OTHERWISE SPECIFIED. 12" AND LARGER FITTINGS REQUIRE 4-3/4" STAINLESS STEEL RODS.
3. A MINIMUM SEPARATION OF 24 INCHES BETWEEN THE WATER MAIN AND STORM DRAINAGE PIPES SHALL BE MAINTAINED. 2 INCH RIGID INSULATION SHALL BE PROVIDED WHEN THE SEPARATION IS LESS THAN 24 INCHES.
4. THE LOCATIONS OF ALL EXISTING DRAINS, SEWERS, WATER MAINS, POWER LINES, TELEPHONE CABLES AND OTHER UTILITIES ARE APPROXIMATE ONLY. FIELD LOCATIONS SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO STARTING THE WORK.
5. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION. CONTRACTOR SHALL VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION. TEST PITS SHALL BE USED AS REQUIRED.
6. ANY UNDERGROUND STRUCTURES, CABLES, AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATIONS SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES, CABLES, AND PIPELINES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNERS OF THE STRUCTURES, CABLES, AND PIPELINES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF THE WATER IMPROVEMENTS. LAYOUT SHALL BE REVIEWED AND ACCEPTED BY THE OWNER AND ENGINEER. THE NEW WATER VALVES MUST BE LOCATED WITHIN THE RIGHTS-OF-WAY SHOWN ON THE DRAWINGS.
8. TEST PRESSURES FOR THE COMBINATION PRESSURE AND LEAKAGE TESTS SHALL BE 150 PSI (MINIMUM). TEST DURATION SHALL BE TWO HOURS.
9. BELOW GRADE UTILITY INFORMATION IS BASED ON RECORD DRAWINGS. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN.
10. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED. AT NO ADDITIONAL COST TO THE OWNER THE CONTRACTOR SHALL REPAIR OR COORDINATE WITH THE RESPECTIVE UTILITY ON DAMAGE TO EXISTING UTILITIES.
11. CONTINUOUS WATER SERVICE MUST BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR WILL PROVIDE TEMPORARY PIPING AND SERVICES SUITABLE FOR AN OPERATING PRESSURE OF 100 PSI. ACCESS TO ROAD AND DRIVEWAYS WILL ALSO BE MAINTAINED.
12. REMOVAL OF LEDGE SHALL BE BY MECHANICAL METHODS. BLASTING OF LEDGE IS PROHIBITED.

SITE GRADING NOTES \*\*

1. ALL VEGETATED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITIONS THAN FOUND PRIOR TO THE BEGINNING OF CONSTRUCTION. BEFORE FINAL COMPLETION OF THE PROPOSED WORK, ALL ROADWAY, SLOPES, DITCHES AND BERMS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
2. ALL ROAD AND PARKING AREA SURFACES SHALL PITCH 1/4 INCH PER FOOT MINIMUM UNLESS OTHERWISE NOTED.
3. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE ENGINEER.

WELL ABANDONMENT NOTES \*

1. WELLS ARE TO BE DECOMMISSIONED BY A LICENSED WATER WELL CONTRACTOR IN ACCORDANCE WITH THE NEW HAMPSHIRE WATER WELL BOARD RULES WE 604.

SITE LAYOUT NOTES \*\*

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS. THE ENGINEER WILL PROVIDE TWO POINTS THAT DEFINE THE HORIZONTAL CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETING ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY HIS OPERATIONS. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF NEW HAMPSHIRE, AT NO ADDITIONAL COST TO THE OWNER.
3. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
4. THE ENGINEER SHALL PROVIDE THE NECESSARY HORIZONTAL CONTROL POINTS FOR THE CONTRACTOR AND THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THIS INFORMATION THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL ELEVATION REFERENCE INFORMATION PRIOR TO USE IN CONSTRUCTION.
5. ELECTRONIC FILES OF ENGINEER'S DRAWINGS WILL BE PROVIDED TO THE SUCCESSFUL CONTRACTOR AFTER CONTRACT AWARD FOR LAYOUT OF THE PROPOSED WORK. ALL LAYOUT INFORMATION PROVIDED ON THE SEALED COPIES OF THE CONTRACT DRAWINGS SHALL PREVAIL IN CASE OF DISCREPANCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF THE WORK BASED ON EXISTING CONTROL POINTS PROVIDED BY THE ENGINEER AND ITS CONSULTANTS. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

TRAFFIC CONTROL NOTES \*

1. CONTRACTOR'S RESPONSIBILITY:
  - 1.1. DEVELOP A PROJECT SPECIFIC CONTROL PLAN THAT MEETS THE REQUIREMENTS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ANY LOCAL AND STATE REQUIREMENTS. PROPOSED TRAFFIC CONTROL PLAN SHALL INDICATE SIGNS/LOCATIONS TO BE USED. TRAFFIC CONTROL PLAN SHALL BE SUBMITTED AND APPROVED BY THE TOWN OF LONDONDERRY. REMIT FEES AND PROVIDED SURETIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF LONDONDERRY.
  - 1.2. PROVIDE ALL MATERIALS AND PERFORM ALL WORK NECESSARY TO COMPLETELY REGULATE TRAFFIC IN THE AREA OF WORK.
  - 1.3. PERFORM ALL WORK IN SUCH A MATTER AS TO PROVIDE SAFE PASSAGE AT ALL TIMES FOR THE PUBLIC AND WITHIN A MINIMUM OF OBSTRUCTION TO TRAFFIC.
  - 1.4. DO NOT CLOSE ROADS OR STREETS TO PASSAGE OF THE PUBLIC WITHOUT THE PERMISSION OF THE PROPER AUTHORITIES.
  - 1.5. THE CONTRACTOR'S DESIGNATED TRAFFIC CONTROL REPRESENTATIVE SHALL RESPOND TO ALL TRAFFIC SAFETY COMPLAINTS AND BE AVAILABLE TO DIRECT TRAFFIC CONTROL SUBCONTRACTORS THE ENTIRE TIME WORK IS OCCURRING ON SITE. IF THE DESIGNATED REPRESENTATIVE IS NOT ON SITE FOR A PERIOD, ANOTHER ON SITE REPRESENTATIVE SHALL BE DESIGNATED BY THE CONTRACTOR FOR THAT PERIOD.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND PAY FEES TO MUNICIPALITY DIRECTLY FOR POLICE DETAIL DURING WORK PERFORMED IN MUNICIPALITY RIGHTS-OF-WAY.
3. FLAGGERS SHALL BE CERTIFIED BY THE ATSSA (AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION) OR A COMPARABLE ORGANIZATION. FLAGGERS MUST PROVIDE PROOF OF CERTIFICATION UPON REQUEST. FLAGGING ORGANIZATIONS SHOULD PROVIDE COPIES, UP FRONT, OF THEIR EMPLOYEE CERTIFICATIONS WITH OTHER SUBMITTALS.
4. FLAGGERS MUST BE EQUIPPED WITH PPE, TRAFFIC CONTROL SIGNAGE, FLAGS, BARRIERS, BARRICADES AND ANY OTHER REQUIRED MUTCD DEVICES FOR TRAFFIC CONTROL PURPOSES. FLAGGERS MUST BE PROVIDED WITH APPROPRIATE BREAKS FOR LUNCH, RELIEF FROM WEATHER CONDITIONS, AND OTHER NECESSITIES.
5. THE WORK HOUR SCHEDULE SHALL BE IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
6. SIGNAGE SHALL BE IN ACCORDANCE WITH THE DRAWINGS OR AS APPROVED BY THE MUNICIPAL POLICE DEPARTMENT, THE MUNICIPAL PUBLIC WORKS DEPARTMENT, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
7. PROVIDE, IDENTIFY AND MAINTAIN SUITABLE DETOURS WHEN THE PROJECT, OR ANY PART THEREOF, IS CLOSED TO PUBLIC TRAVEL..
8. WHEN THE CLOSED PART OF THE PROJECT IS REOPENED, RESTORE THE DETOUR AREA AND ANY OTHER DISTURBED AREAS TO THE ORIGINAL CONDITION.
9. WHENEVER A TRAVELED WAY IS CLOSED, PERFORM THE WORK IN SUCH A MANNER THAT LOCAL TRAVEL, RESIDENTS AND BUSINESSES IN THE VICINITY OF THE WORK WILL BE INCONVENIENCED AS LITTLE AS POSSIBLE.
10. ALLOW ACCESS TO RESIDENTS AND ABUTTING LAND OWNERS ALONG THE PROJECT TO DRIVEWAYS AND OTHER NORMAL OUTLETS FROM THEIR PROPERTY.

**NOTES:**  
(\*) INDICATES NOTES THAT APPLY TO CONTRACT A ONLY  
(\*\*) INDICATES NOTES THAT APPLY TO CONTRACTS A AND B

verdantas

186 GRANITE STREET, 3RD FLOOR, SUITE A  
MANCHESTER, NH 03101  
TEL: 603-314-0820

STEVEN H. LEWANDOWSKI, P.E.

STATE OF NEW HAMPSHIRE  
SEVEN HANCOCK  
LEWIS  
NO. 18446  
LICENSED PROFESSIONAL ENGINEER

03-04-2025

STATE: NH

DESIGNED BY	CHK'D BY	REVISION	NO.
RKM <td>DATE 03-27-2025<td>ISSUED FOR BIDDING</td><td>1</td></td>	DATE 03-27-2025 <td>ISSUED FOR BIDDING</td> <td>1</td>	ISSUED FOR BIDDING	1
DRAWN BY	SHL		
JTL			
CHECKED BY			
SHL			
PROJECT NO.			
16063			

LONDONDERRY-ROCKINGHAM-NEW HAMPSHIRE

ROLLING MEADOWS & HANAFIN FARMS

WATER MAIN INTERCONNECTION

NOTES

DATE

09-16-2024

SCALE

1" = 300'

SHEET

G-2



## New Hampshire Rare Species



- Jefferson/blue-spotted salamander complex are a hybrid species between Jefferson salamanders and blue-spotted salamanders.
- Dark-bodied salamander approximately 3.5 to 5 inches long speckled with blue or white flecks and spots across back, sides, and tail.
- Common habitat is moist hardwood forests, but also wooded swamps, marshes, and bogs.
- Burrows under logs, rocks, mats of moss, and vegetation.

Please report sightings to NH Fish and Game at [RAARP@wildlife.nh.gov](mailto:RAARP@wildlife.nh.gov) or at 603-271-2461. Photo documentation, location, and date/time of observation is helpful.

### New Hampshire Species of Special Concern

**Contact NHFG Wildlife Biologist if observed within your project site:**

*Josh Megyesy 603-271-1127 or 978-578-0802c (call or text)*

- Turtles may be attracted to disturbed ground during nesting season (May 15<sup>th</sup> – July 15<sup>th</sup>)
- Turtles are most active from April 15<sup>th</sup> – October 15<sup>th</sup>



### Identifying traits

- Neck and forelimbs are orange
- Highly sculpted shell with each large scute taking on an irregular pyramidal shape
- Adults can be 5-8 inches long

### Habitat

- Wooded areas near streams
- Uplands surrounding streams
- Stream channel or associated wetland

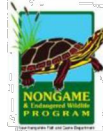
**NOTE: It is illegal to remove a wood turtle from the wild**



**Immediately report nesting turtles, suspected nesting turtles or suspected nest sites to NHFG Wildlife Biologist.**

All other observation of this species shall be reported to NHFG via email at [NHFGReview@wildlife.nh.gov](mailto:NHFGReview@wildlife.nh.gov). Include in the email subject line: NHBxx-xxx, Project Name, Wildlife Observation. Photo documentation, location, date/time of observation.

**State laws pertaining to this species RSA 207:1, FIS 804.02, FIS 1401.03 (a)**



**PLEASE REPORT OBSERVATIONS OF  
RARE TURTLES**

***The NH Fish & Game Department is requesting observations of the following turtle species***

Turtles may be attracted to disturbed ground during nesting season (May 15th – June 30th)

**Turtles are most active from April 15th - October 15th - maintain silt fences during this time**



**Blanding's turtle**  
(State Endangered)

Large, dark/black domed shell  
with lighter speckles.

Distinct yellow throat/chin.

Aquatic but often moves on land.

**Spotted turtle**  
(State Threatened)

Small, mostly aquatic with black or dark brown with yellow spots.

Fairly flat shell compared to Blanding's turtle.

Spots vary in color and number.

Fis 1401.03 (a) No person shall take or possess a spotted turtle (*Clemmys guttata*)...Blanding's turtle (*Emydoidea blandingii*)...or any egg or part thereof.

Report sightings immediately to NHFG Wildlife Division at 603-271-2461 (M-F 8-4) or to NHFG Wildlife Biologist Josh Megyesy 603-271-1125 or 978-578-0802 (cell) anytime.

*Please report promptly, noting specific location and date – Photographs strongly encouraged*

## NH FISH AND GAME NOTES

- BLANDING'S TURTLE (STATE ENDANGERED) AND NEW ENGLAND COTTONTAIL (STATE ENDANGERED) OCCUR IN THE VICINITY OF THE PROJECT AREA. SPOTTED TURTLE (STATE THREATENED) IS ALSO LIKELY OCCUR IN THE VICINITY DUE TO OVERLAPPING HABITAT USE AND DISTRIBUTION. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NH FISH AND GAME CONTACT INFORMATION.
2. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NH FISH AND GAME IMMEDIATELY AND NH FISH AND GAME CONTACT INFORMATION) SHALL BE COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT DURING THE CONSTRUCTION PHASE OF THE PROJECT.
3. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING THE NESTING SEASON (MAY 15TH - JUNE 30TH). TURTLE NESTS ARE PROTECTED BY NH LAWS. IF A NEST IS OBSERVED OR SUSPECTED, OPERATORS SHALL CONTACT JOSH MEGVESY AT NH FISH AND GAME IMMEDIATELY FOR FURTHER CONSULTATION. SEE SPECIES FLYERS, FOR NHFG CONTACT INFORMATION.
  - a. TO MINIMIZE THE POTENTIAL FOR NESTING TO OCCUR WITHIN THE PROJECT SITE:
    - a.a. MINIMIZE GROUND DISTURBANCE ACTIVITIES DURING THE ACTIVE NESTING SEASON. LIMIT CLEARING AREAS AND DISTURBING GROUND UNTIL READY TO START ACTIVE CONSTRUCTION FOR A PROJECT COMPONENT
    - a.b. MINIMIZE ACCESS OR MAKE AREAS LESS ATTRACTIVE TO WILDLIFE FOR NESTING DISTURBED GROUND AREAS DURING ACTIVE NESTING SEASON. SOIL/SANDY MOUNDS OR OPEN SANDY/GRAVELLY AREAS WITHIN THE ACTIVE PROJECT SITE *SHALL BE COVERED* WITH TARPS OR OTHER CONSTRUCTION MATERIALS AT THE END OF THE WORK DAY (NOTE TURTLES CAN MOVE INTO A SITE OVERNIGHT TO NEST - BE OBSERVANT FOR TRACKS AND SIGNS OF NESTING).
  - b. THE NEST OR SUSPECTED NEST SHALL BE MARKED (SURROUNDING ROPED OFF OR CONE BUFFER DEPLOYED) AND AVOIDED; THIS SHALL BE COMMUNICATED TO ALL PERSONNEL OFFSITE.
  - c. SITE ACTIVITIES SHALL NOT OCCUR IN THE AREA SURROUNDING THE NEST OR SUSPECTED NEST UNTIL FURTHER GUIDANCE IS PROVIDED BY FISH AND GAME.
4. AVOID REMOVAL OF SHRUB COVER.
5. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS, UTILIZED FOR, BUT NOT LIMITED TO, PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES.
6. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NH FISH AND GAME NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL RESPONSE PROGRAM BY PHONE AT (603) 271- 2461 AND BY EMAIL AT [NHFGREPLY@WILDLIFE.NH.GOV](mailto:NHFGREPLY@WILDLIFE.NH.GOV), WITH THE EMAIL SUBJECT LINE CONTAINING THE NHB DATA CHECK TOOL RESULTS LETTER ASSIGNED NUMBER, THE PROJECT NAME, AND THE TERM WILDLIFE SPECIES OBSERVATION.
7. PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NH FISH AND GAME IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.
8. IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NH FISH AND GAME AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NH FISH AND GAME.
9. SITE OPERATORS SHALL BE ALLOWED TO RELOCATE WILDLIFE ENCOUNTERED IF DISCOVERED WITHIN THE ACTIVE WORK ZONE IF IN DIRECT HARM FROM PROJECT ACTIVITIES. WILDLIFE SHALL BE RELOCATED IN CLOSE PROXIMITY TO THE CAPTURE LOCATION BUT OUTSIDE OF THE WORK ZONE AND IN THE DIRECTION THE INDIVIDUAL WAS HEADING. NH FISH AND GAME SHALL BE CONTACTED IMMEDIATELY IF THIS ACTION OCCURS.
10. ALL CONSTRUCTION MATERIALS AND MATERIALS RELATING TO CONSTRUCTION SHALL BE REMOVED FROM THE PROPERTY UPON THE COMPLETION OF WORK.
11. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.
12. JEFFERSON/BLUE-SPOTTED SALAMANDER COMPLEX (SPECIAL CONCERN) AND WOOD TURTLE (SPECIAL CONCERN, PROTECTED UNDER FIS 1400 RULES) OCCUR IN THE VICINITY OF THE PROJECT AREA, ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHOULD BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHOULD BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION.

## NATIONAL HERITAGE BUREAU NOTES

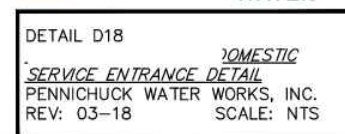
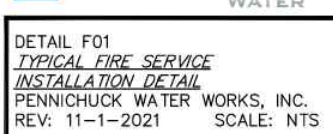
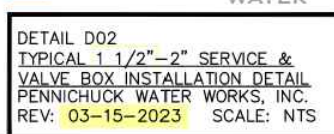
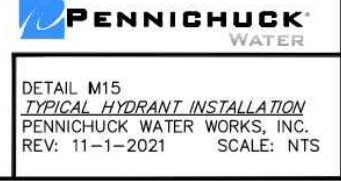
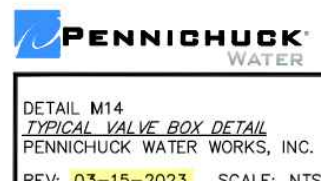
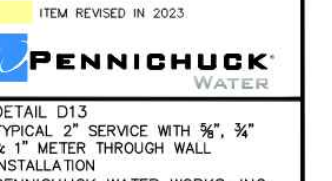
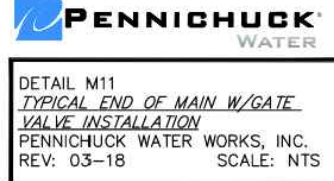
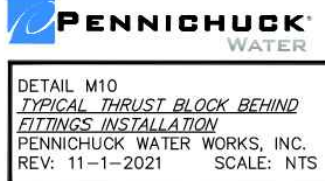
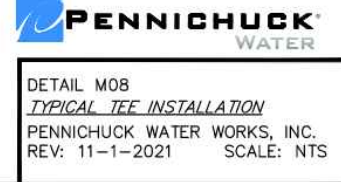
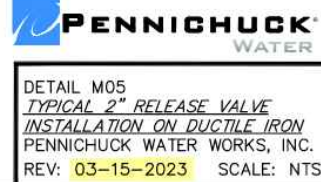
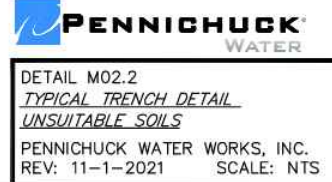
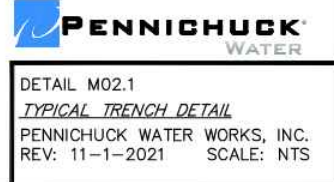
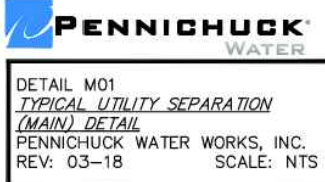
1. NUTTALL'S REED GRASS STATE ENDANGERED) IS KNOWN TO OCCUR IN THE VICINITY OF THE PROJECT AREA. **SEE PLAN SHEET C-8.** TO AVOID IMPACTS TO THIS SPECIES, THE FOLLOWING PRACTICES SHOULD BE FOLLOWED:
  - a. THE PROJECT SHOULD BE DESIGNED IN A WAY THAT AVOIDS/MINIMIZES PERMANENT AND TEMPORARY IMPACTS TO VEGETATION (VEGETATION IN THIS CONTEXT DOES NOT INCLUDE MOWED GRASS AREAS) TO THE GREATEST EXTENT POSSIBLE. NHX WILL DEFAULT TO THE EXPERTISE OF THE DESIGN TEAM TO DETERMINE HOW BEST TO AVOID VEGETATION.
  - b. ANY WORK THAT WILL DISTURB VEGETATION SHOULD BE COMPLETED BETWEEN 1-NOVEMBER AND 15-APRIL IF POSSIBLE. THIS IS OUTSIDE OF THE GROWING SEASON AND WOULD REDUCE IMPACTS TO THE RARE PLANT IF PRESENT.
  - c. ANY VEGETATION ADJACENT TO, BUT OUTSIDE OF, THE PROPOSED IMPACT AREA SHOULD BE FLAGGED/FENCED OFF SO THAT IT IS NOT INCIDENTALLY IMPACTED.
  - d. PERSONNEL AND MACHINERY SHOULD AVOID TRAMPLING VEGETATION UNLESS ABSOLUTELY NECESSARY. IF MACHINERY MUST DRIVE OVER VEGETATION, MATTING IS RECOMMENDED TO AVOID CRUSHING VEGETATION AND RUTTING THE SOIL.
2. SAND PLAIN BASIN MARSH SYSTEM IS AN EXEMPLARY NATURAL COMMUNITY IN THE PROJECT VICINITY. NHB RECOMMENDS USING PROPER EROSION AND SEDIMENT CONTROLS IN THIS AREA IN ORDER TO AVOID NEGATIVE IMPACTS TO THE EXEMPLARY SYSTEM. NHB ALSO RECOMMENDS STAGING MACHINERY WITHIN THE ROAD OR ON THE OPPOSITE SIDE OF THE ROAD OF THIS SYSTEM TO ENSURE THERE ARE NO IMPACTS TO THE BANKS OF THE BASIN MARSH. **SEE PLAN SHEET C-4.**

<p><b>LONDONDERRY-ROCKINGHAM-NEW HAMPSHIRE</b></p> <p><b>ROLLING MEADOWS &amp; HANAFIN FARMS</b></p> <p><b>WATER MAIN INTERCONNECTION</b></p> <p><b>NHDES ENVIRONMENTAL REVIEW NOTES</b></p>		<p>DATE</p> <p>09-16-2024</p>		<p>SCALE</p> <p>1" = 300'</p>		<p>SHEET</p> <p><b>G-3</b></p>	
<p>No.</p> <p>1</p>		<p>REVISION</p> <p>ISSUED FOR BIDDING</p>		<p>CHKD BY</p> <p>SHL</p> <p>03-21-2025</p>		<p>DESIGNED BY</p> <p>RKM</p> <p>DRAWN BY</p> <p>JTL</p> <p>CHECKED BY</p> <p>SHL</p> <p>PROJECT NO.</p> <p>16093</p>	
						<p>STEVEN H. LEWANDOWSKI, P.E.</p> <p>NEW HAMPSHIRE STATE OF SEAL STEVEN H. LEWANDOWSKI No. 16846 LICENSED PROFESSIONAL ENGINEER</p> <p>03-04-2025</p> <p>STATE: NH P.E. #16446</p> <p><i>Steven H. Lewandowski</i></p>	
						<p><b>verdantas</b></p> <p>186 GRANITE STREET, 3RD FLOOR, SUITE A MANCHESTER, NH 03101 TEL. 603-314-0820</p>	

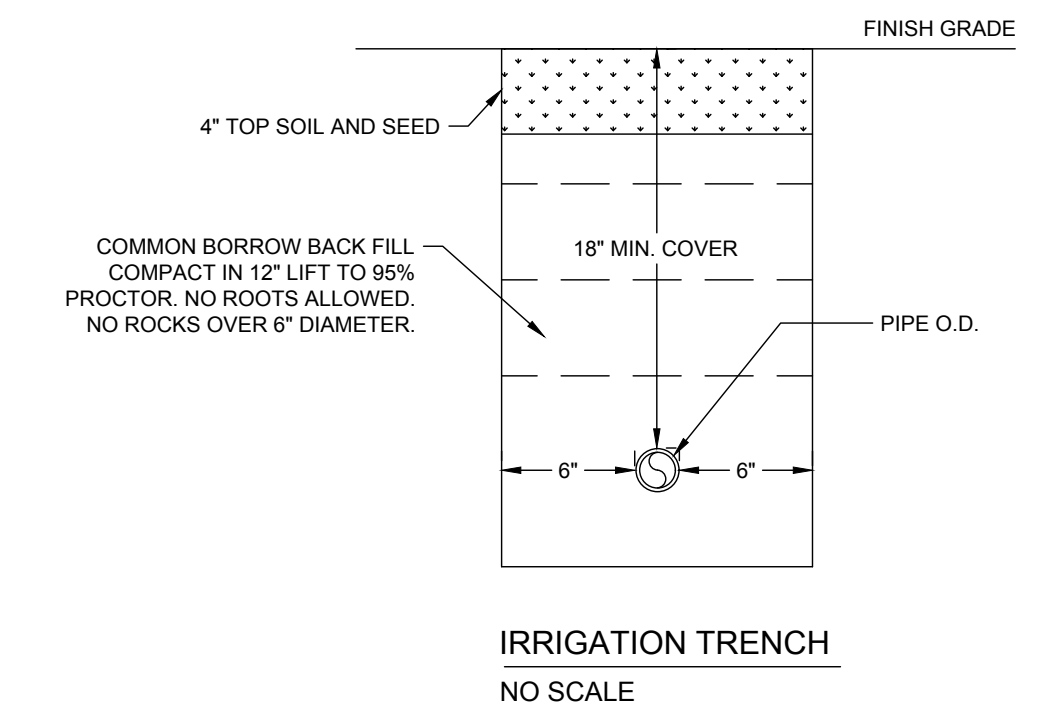
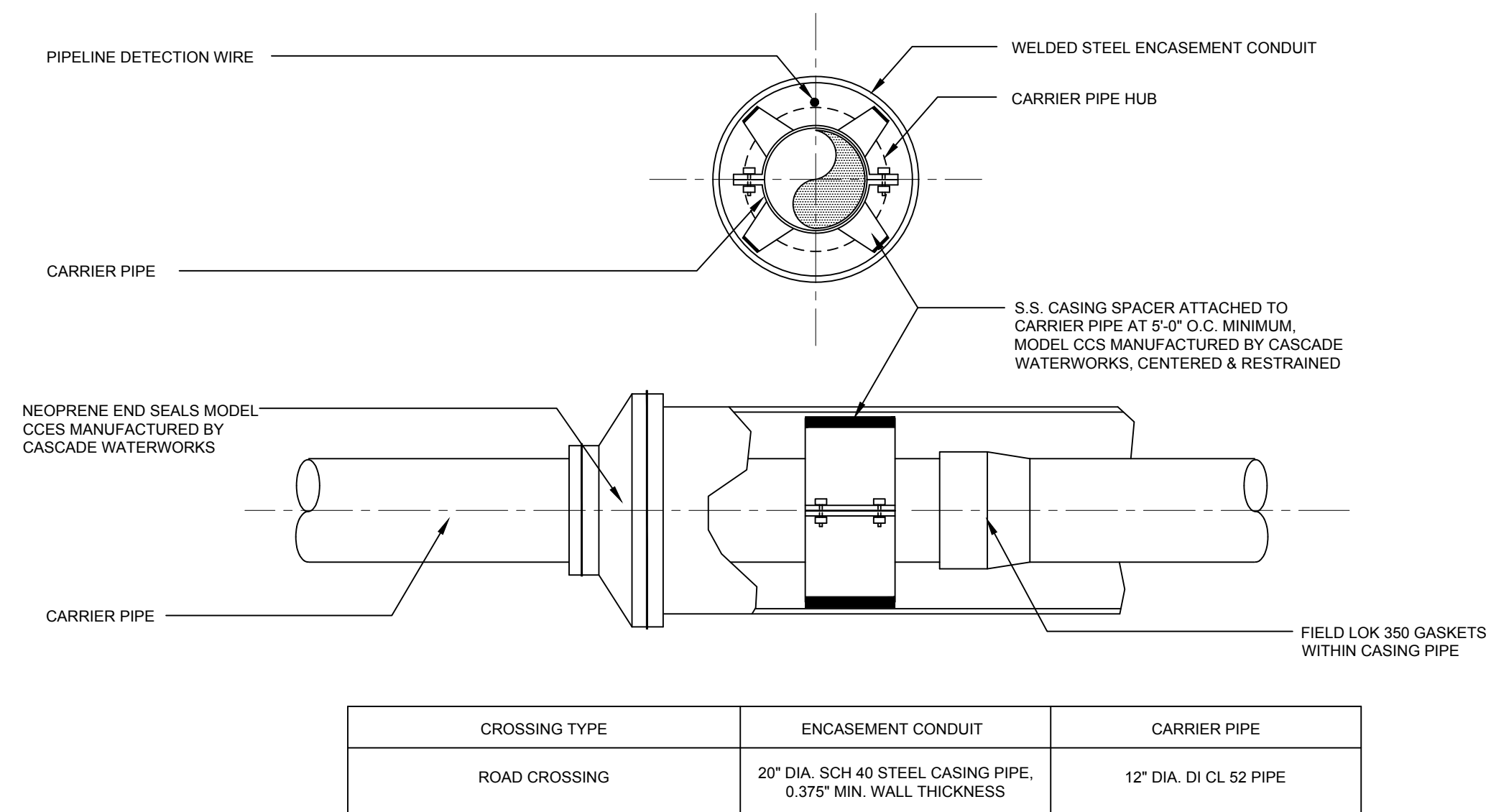
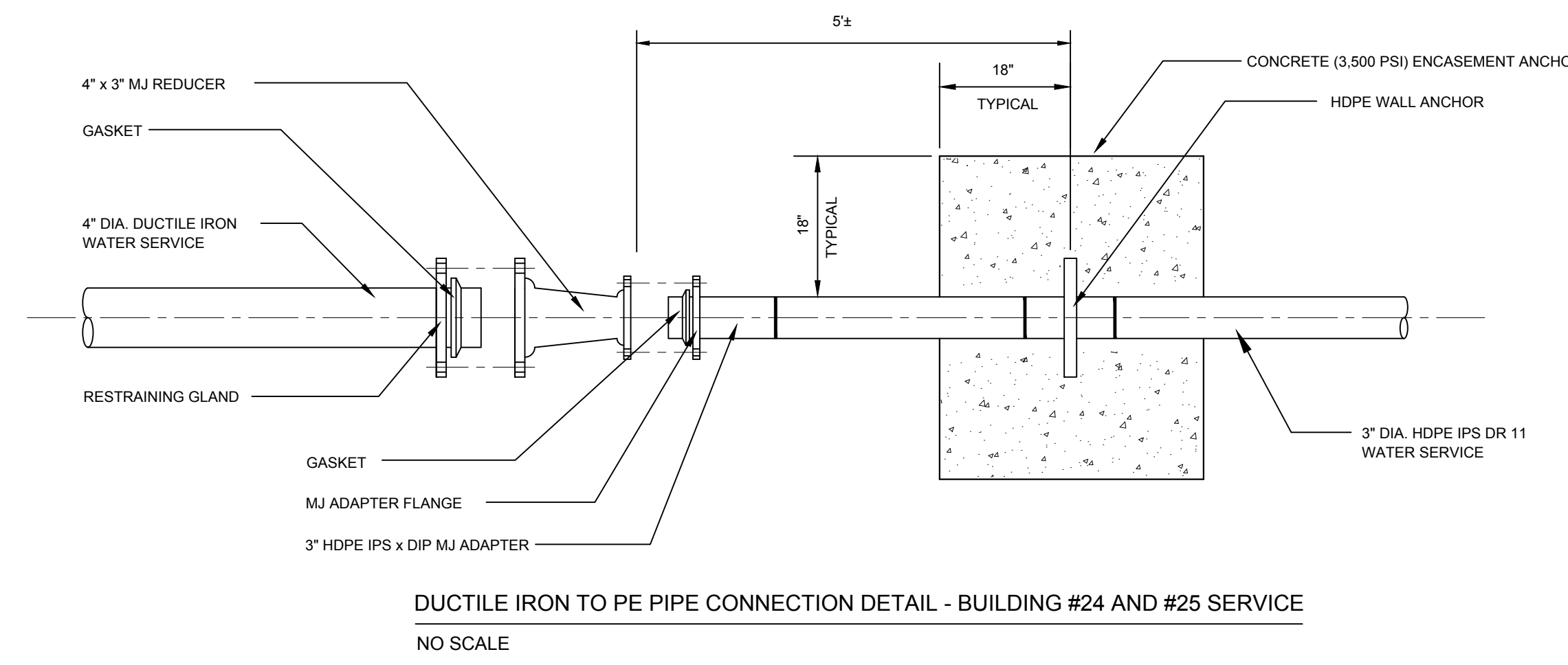
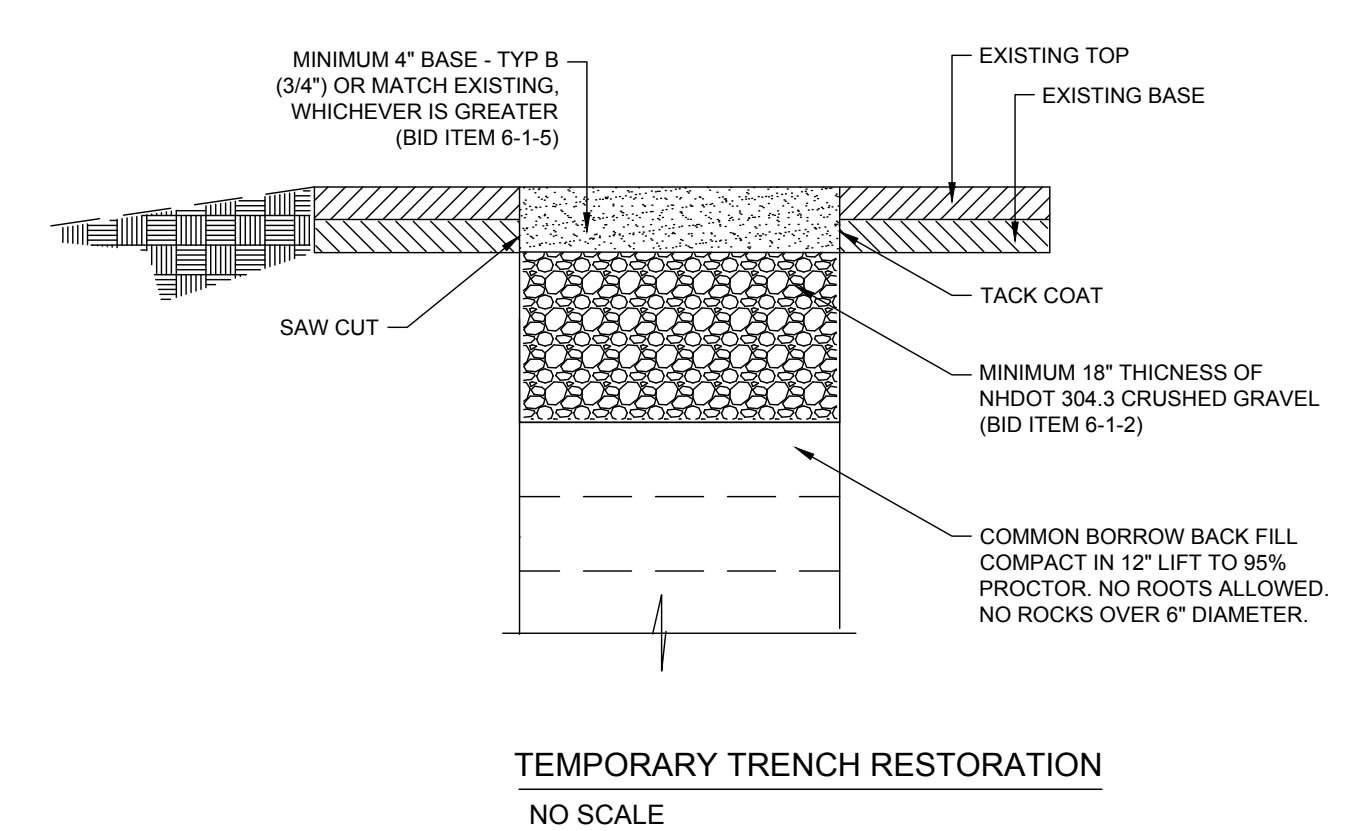
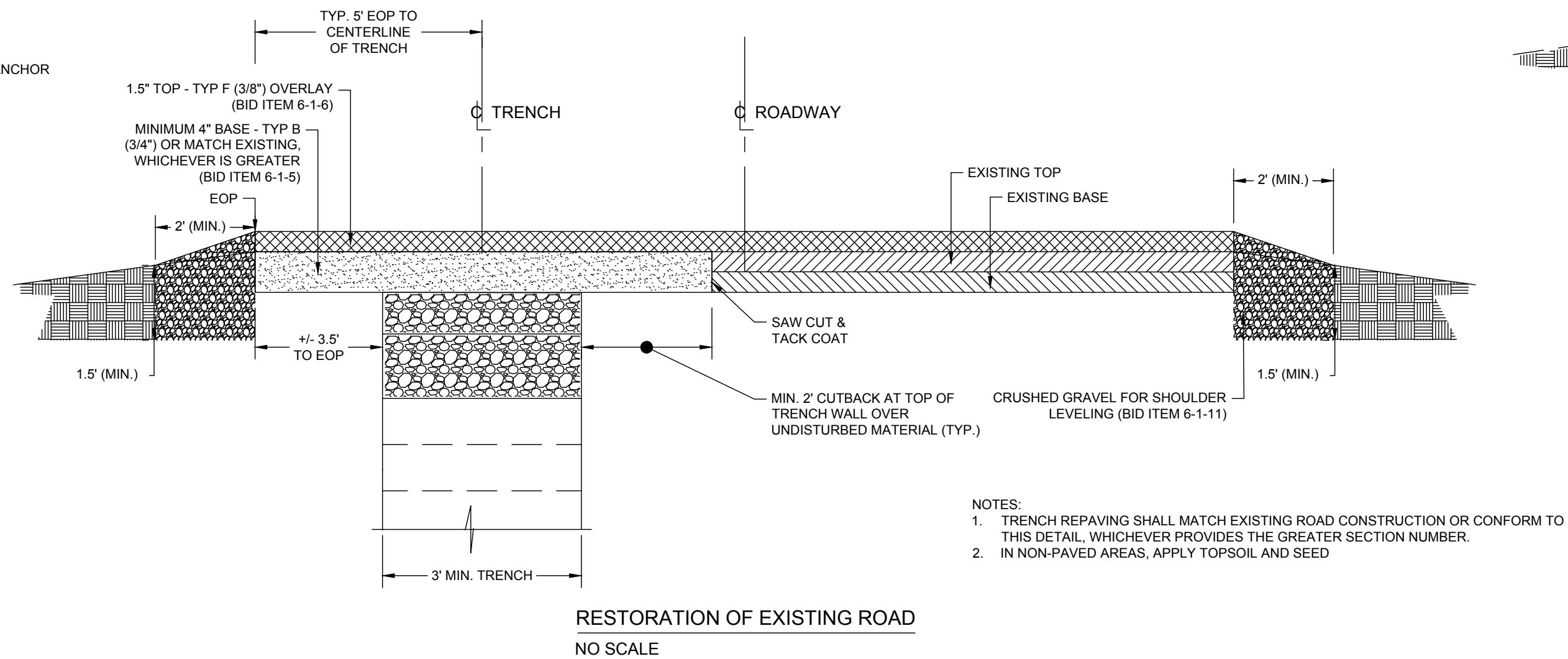
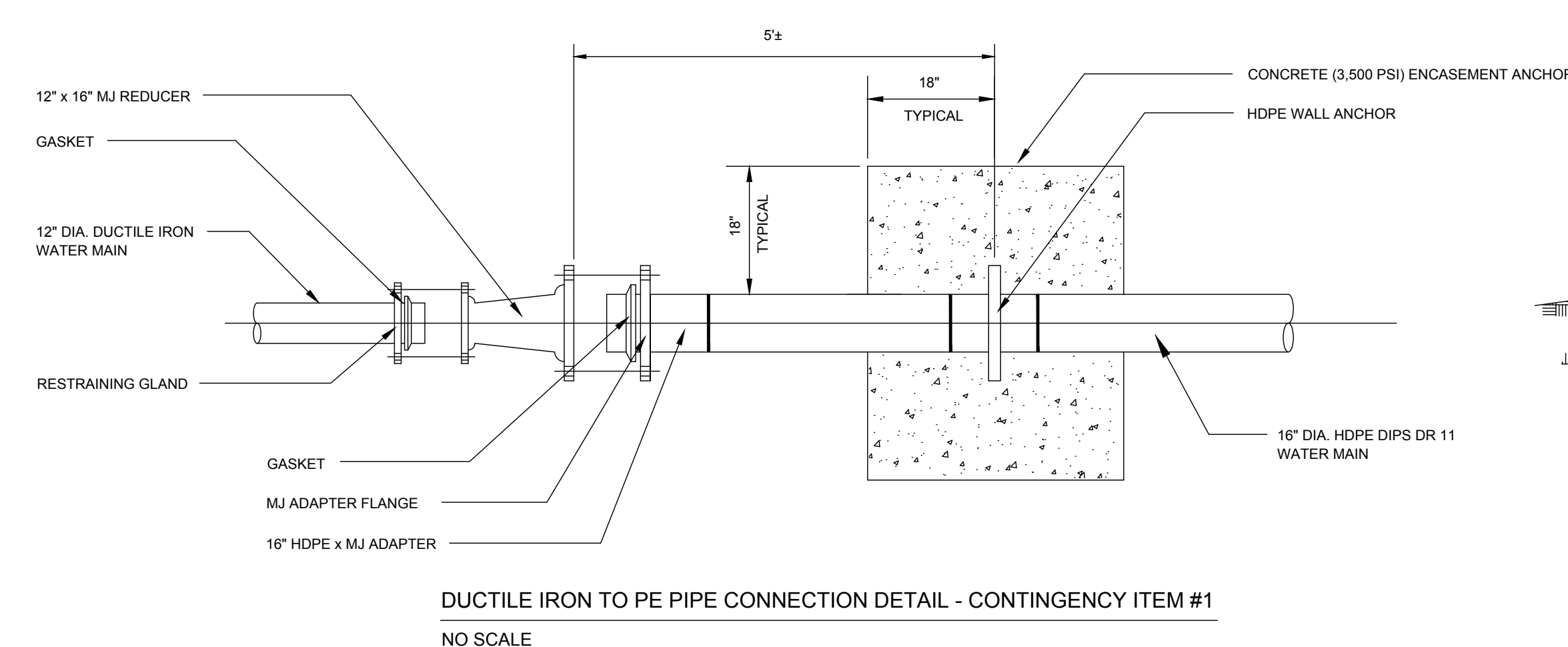
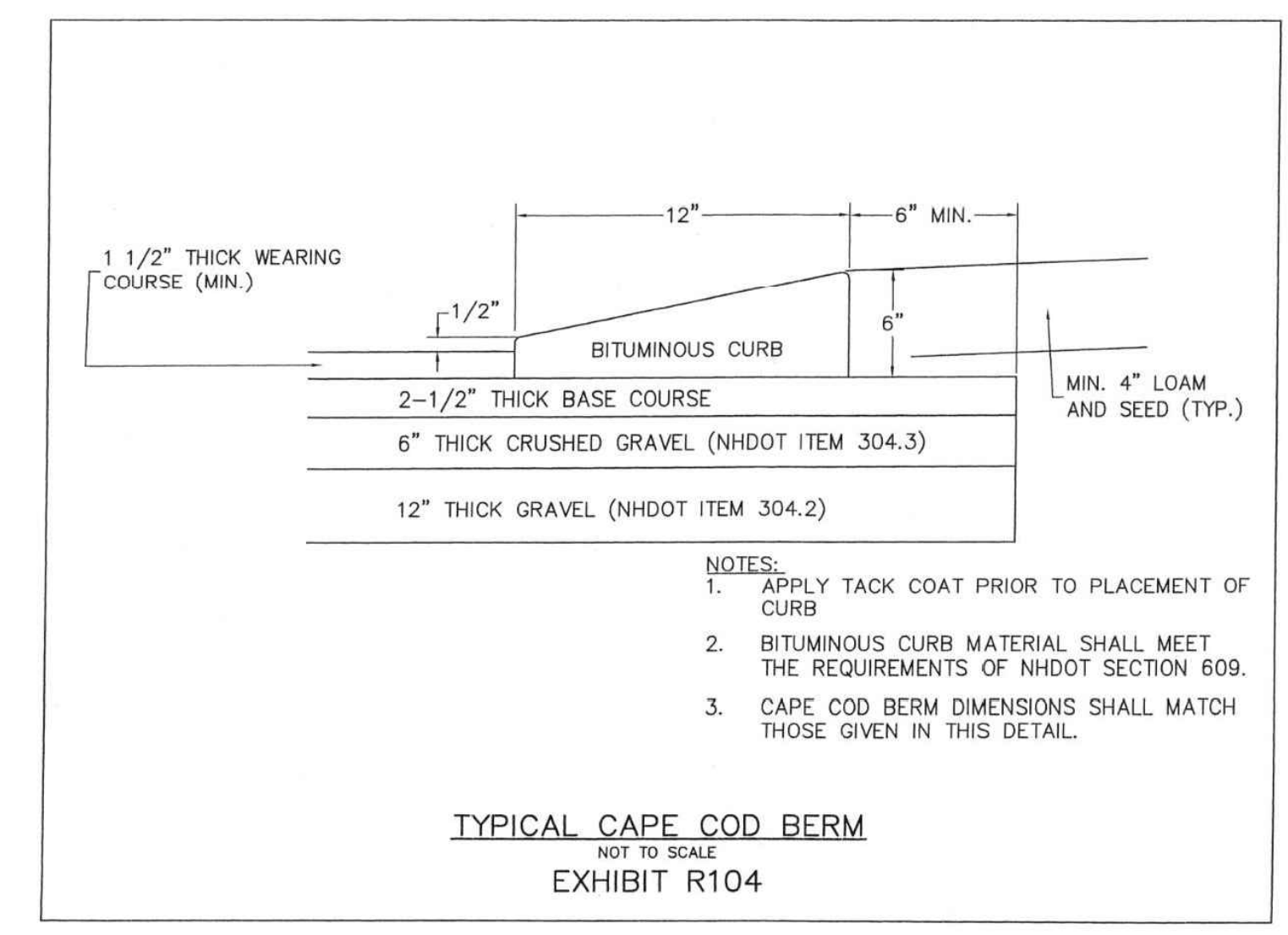
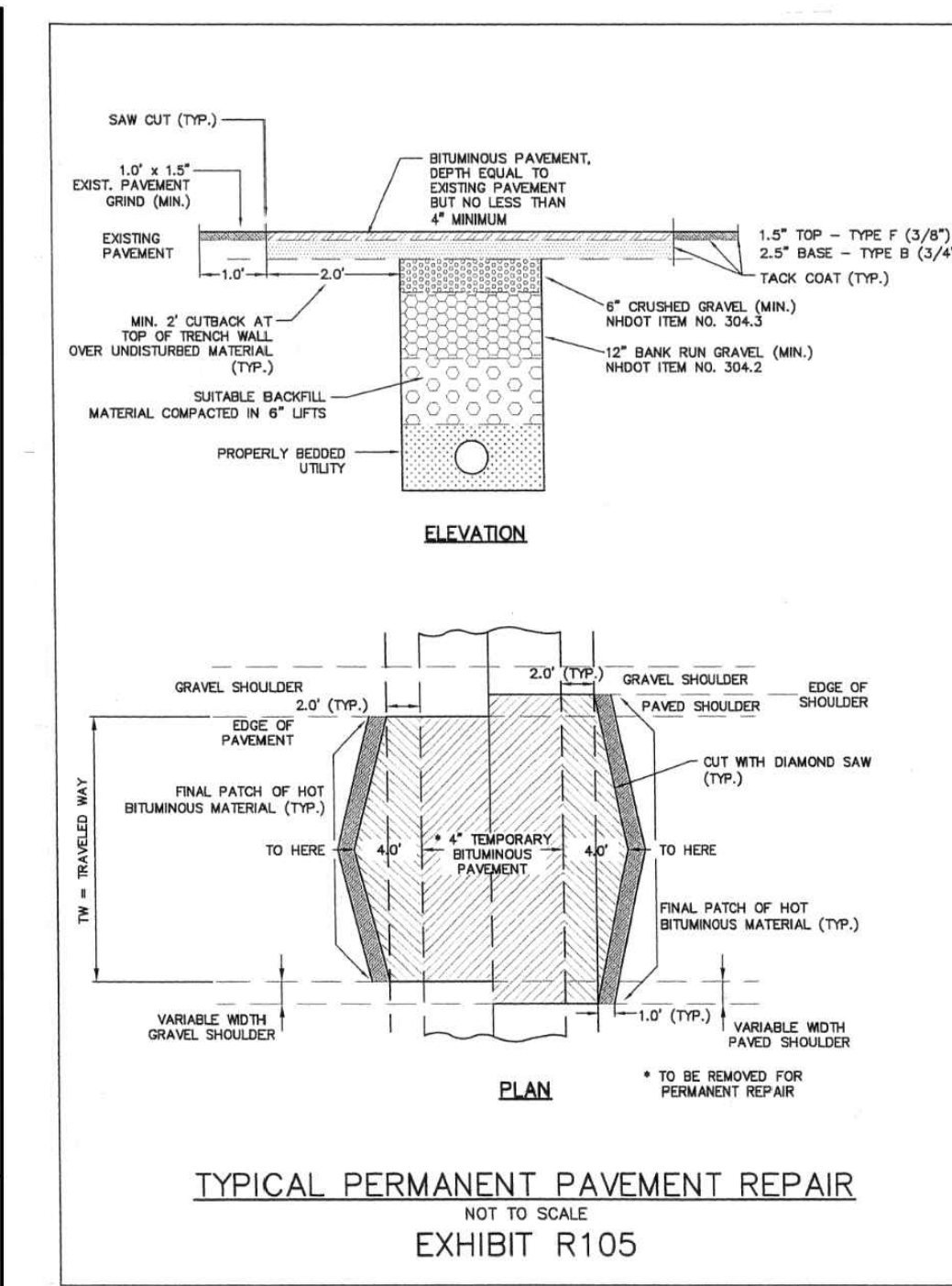
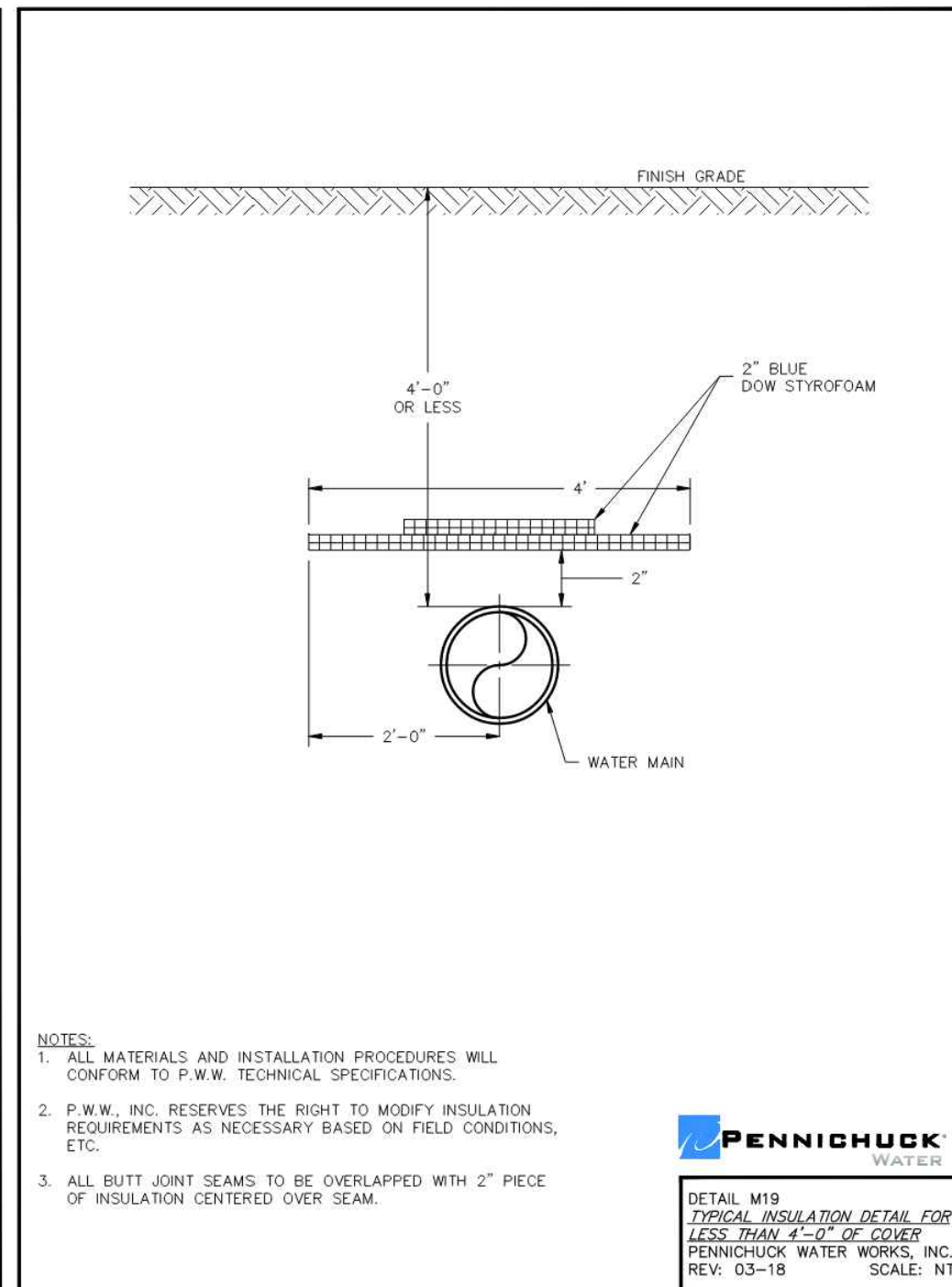
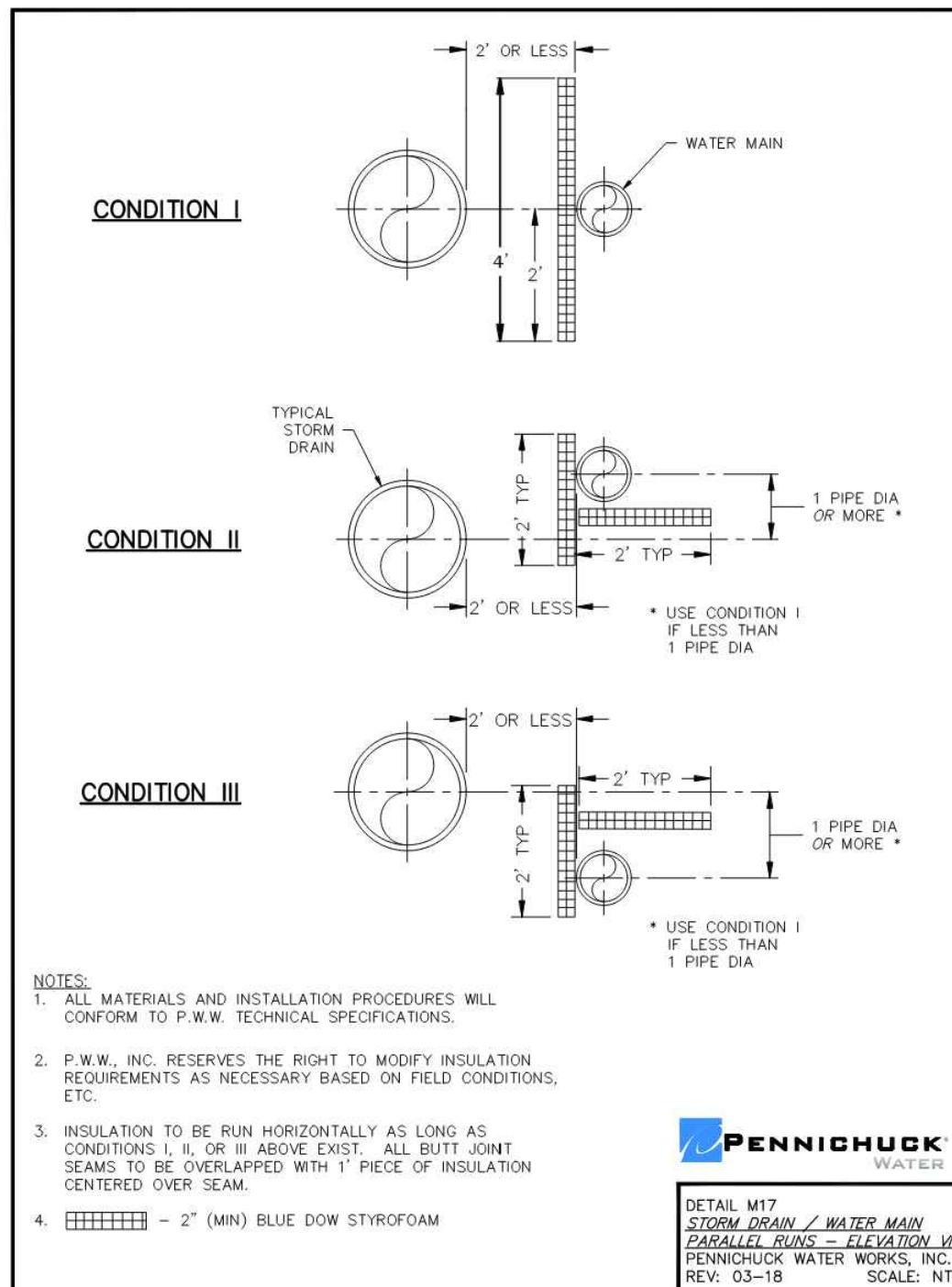
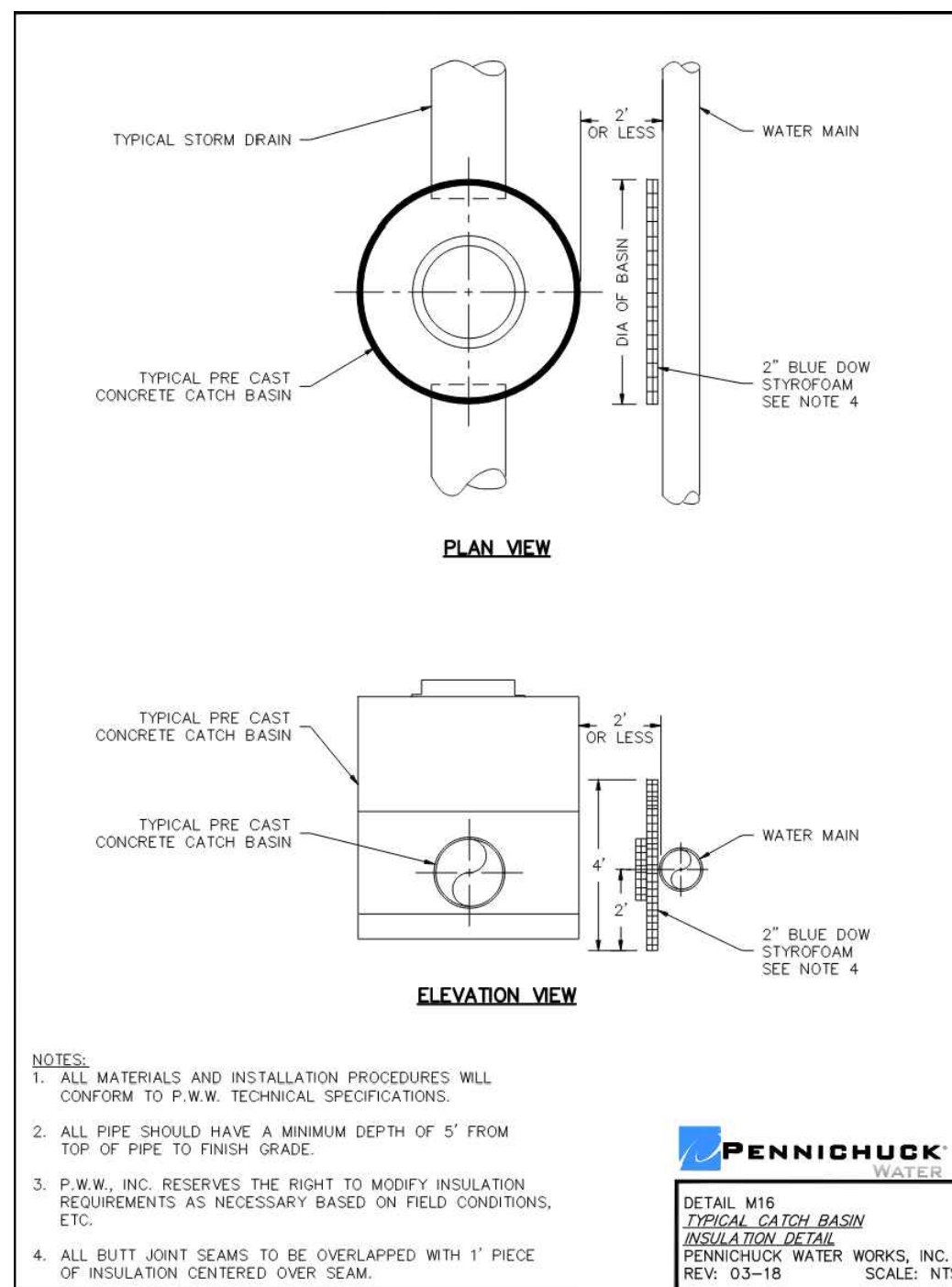






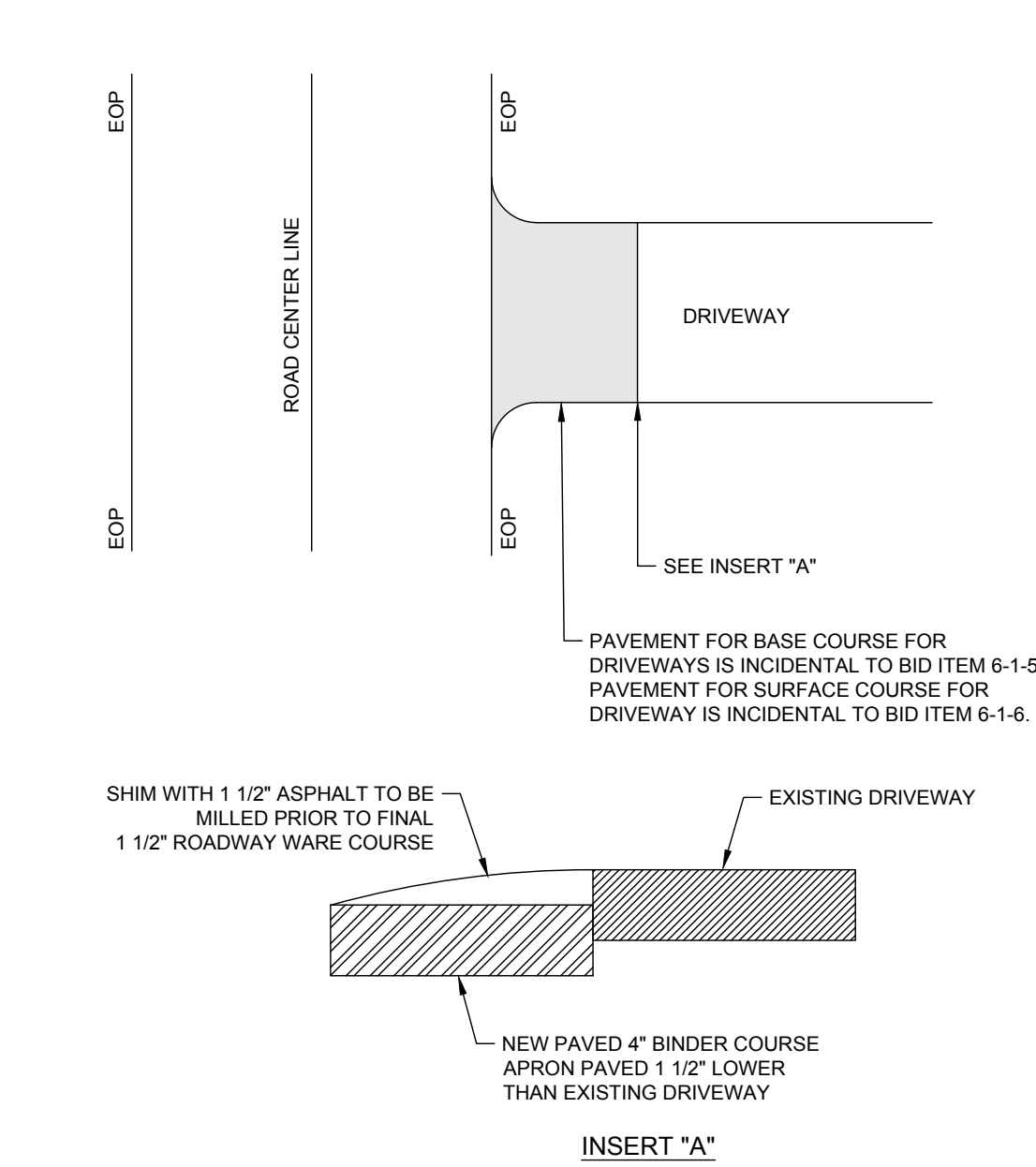




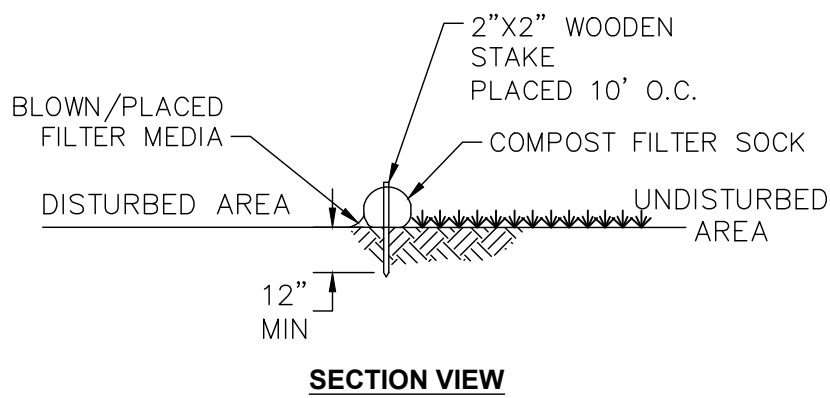




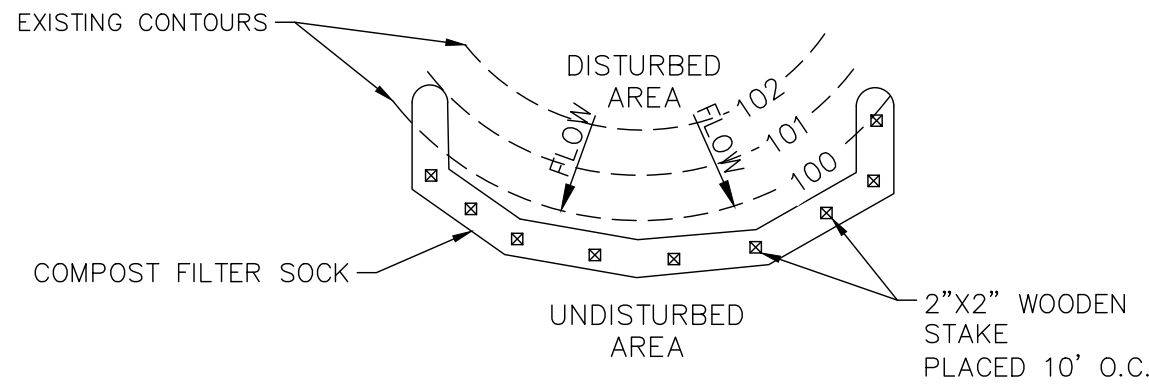
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DRIVEWAY DETAIL  
NO SCALE



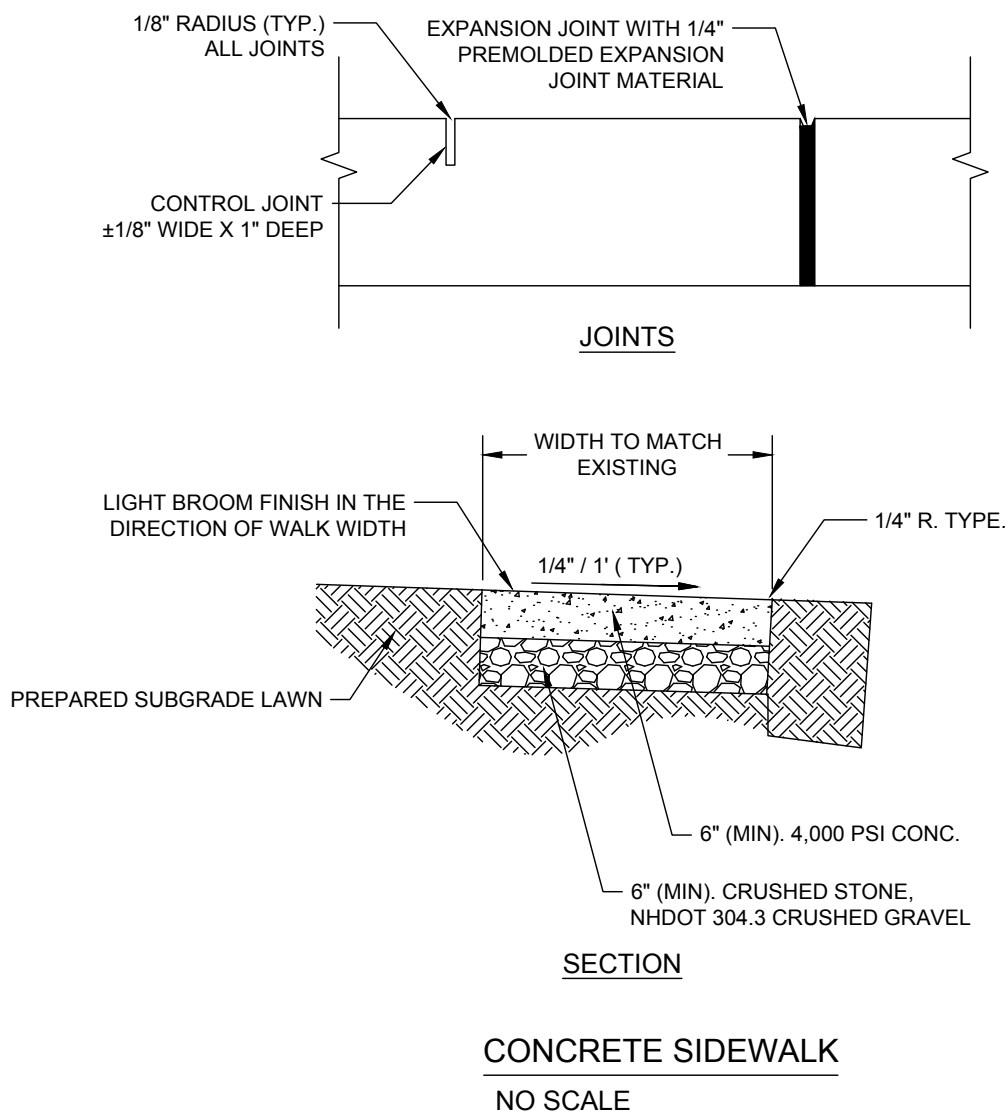
SECTION VIEW



PLAN VIEW

SILT SOCK DETAIL  
NO SCALE

- NOTES:
1. COMPOST FILTER LOG SHALL BE 8" Filtrexx SiltSoxx ORIGINAL OR EQUIVALENT.
  2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
  3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
  4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
  5. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
  6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
  7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCKS MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.



- NOTES:
1. COORDINATE JOINT LOCATIONS TO MATCH EXISTING BLOCKS.
  2. THE PRIMARY SURFACE OF THE CONCRETE SIDEWALK SHALL HAVE A BROOM FINISH AND AN AREA TWO (2) INCHES IN WIDTH, PARALLEL TO THE CONTROL JOINTS, SHALL HAVE A SMOOTH-TROWLED FINISH.

PROPOSED WATER SERVICES SCHEDULE						
BUILDING NUMBER	ADDRESS	METER SIZE	METER TYPE	BACKFLOW PREVENTER, ZURN BF-950XLT2	PRV, ZURN 500XL3	WATER SERVICE SIZE/MATERIAL
1	34 PENDLETON LANE	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
2	8 PENDLETON LANE	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
3	29 PENDLETON LANE	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
5	24 PENDLETON LANE	1"	RESIDENTIAL	1-1/4"	-	2" CTS HDPE
6	14 PENDLETON LANE	1"	RESIDENTIAL	1-1/4"	-	2" CTS HDPE
7	70 PENDLETON LANE	1"	RESIDENTIAL	1-1/4"	-	2" CTS HDPE
8	19 PENDLETON LANE	1"	RESIDENTIAL	1-1/4"	-	2" CTS HDPE
9	9 BOYD ROAD	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
10	65 BAYBERRY LANE	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
11	75 BAYBERRY LANE	1"	RESIDENTIAL	1-1/2"	-	2" CTS HDPE
12	89 BAYBERRY LANE	1"	RESIDENTIAL	1-1/4"	-	2" CTS HDPE
15	99 BAYBERRY LANE	1"	RESIDENTIAL	1-1/2"	-	2" CTS HDPE
16	104 BAYBERRY LANE	1"	RESIDENTIAL	1-1/4"	-	2" CTS HDPE
17	105 BAYBERRY LANE	1"	RESIDENTIAL	1-1/2"	-	2" CTS HDPE
18	119 BAYBERRY LANE	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
19	19 BOYD ROAD	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
22	127 TREADWAY LANE	1"	RESIDENTIAL	1-1/2"	1-1/2"	2" CTS HDPE
23	128 TREADWAY LANE	1"	RESIDENTIAL	1-1/2"	1-1/2"	2" CTS HDPE
24	144 PENDLETON LANE	1"	RESIDENTIAL	1-1/2"	1-1/2"	4" DI CL 52
25	143 PENDLETON LANE	1"	RESIDENTIAL	1-1/2"	1-1/2"	4" DI CL 52
63	63 OLD NASHUA ROAD	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
67	67 OLD NASHUA ROAD	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
69	69 OLD NASHUA ROAD	1"	RESIDENTIAL	1-1/4"	-	2" CTS HDPE
71	71 OLD NASHUA ROAD	1"	RESIDENTIAL	1-1/4"	-	2" CTS HDPE
73	73 OLD NASHUA ROAD	1"	RESIDENTIAL	1-1/4"	1-1/4"	2" CTS HDPE
CLUBHOUSE	70 BAYBERRY LANE	1"	RESIDENTIAL	1-1/4"	-	2" CTS HDPE
HANAFIN FARMS	2 BELGIAN WAY	1 1/2"	MASTER	2"	-	4" DI CL 52

PROPOSED WATER SERVICE STUB SECHEDULE						
-	70 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	58 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	54 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	52 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	40 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	38 A & B OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	34 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	32 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	30 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	28 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	20 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	18 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	12 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	14 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	10 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	8 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	4 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	2 OLD NASHUA ROAD	-	-	-	-	2" CTS HDPE
-	9 OLD NASHUA ROAD	-	-	-	-	2" CTS HDPE
-	19 OLD NASHUA ROAD	-	-	-	-	2" CTS HDPE
-	17 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	31 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	37 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	39 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	41 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	45 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE
-	47 OLD NASHUA ROAD	-	-	-	-	1 1/2" CTS HDPE

verdantas

186 GRANITE STREET, 3RD FLOOR, SUITE A  
MANCHESTER, NH 03101  
TEL: 603-314-0820

STEVEN H. LEWANDOWSKI, P.E.

NEW HAMPSHIRE - P.E. No. 18448

SEAL

03-04-2025

STATE: NH

DESIGNED BY  
RKM

DRAWN BY  
JTL

CHECKED BY  
SHL

PROJECT NO.  
16063

CHK'D BY  
DATE  
SHL  
03-21-2025

REVISION  
1  
ISSUED FOR BIDDING

No.

LONDONDERRY-ROCKINGHAM-NEW HAMPSHIRE  
ROLLING MEADOWS & HANAFIN FARMS  
WATER MAIN INTERCONNECTION

DETAILS

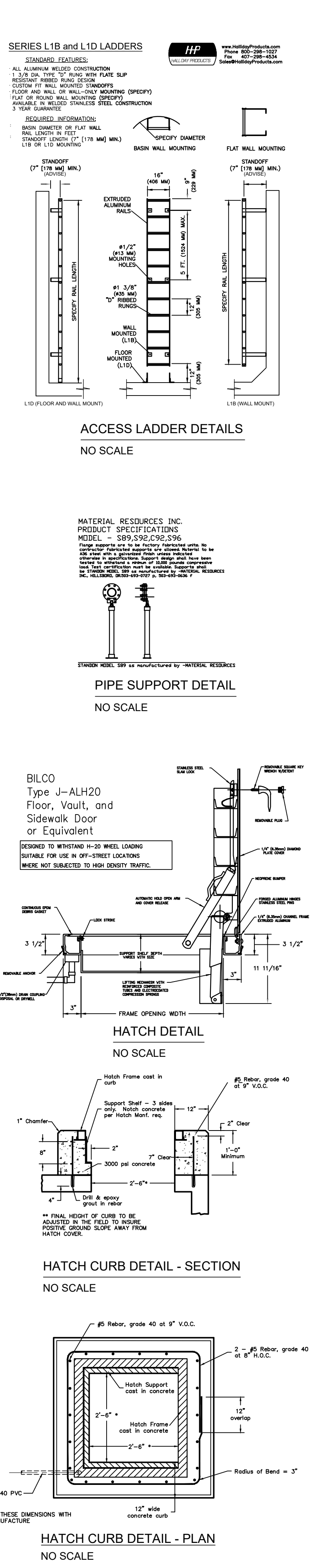
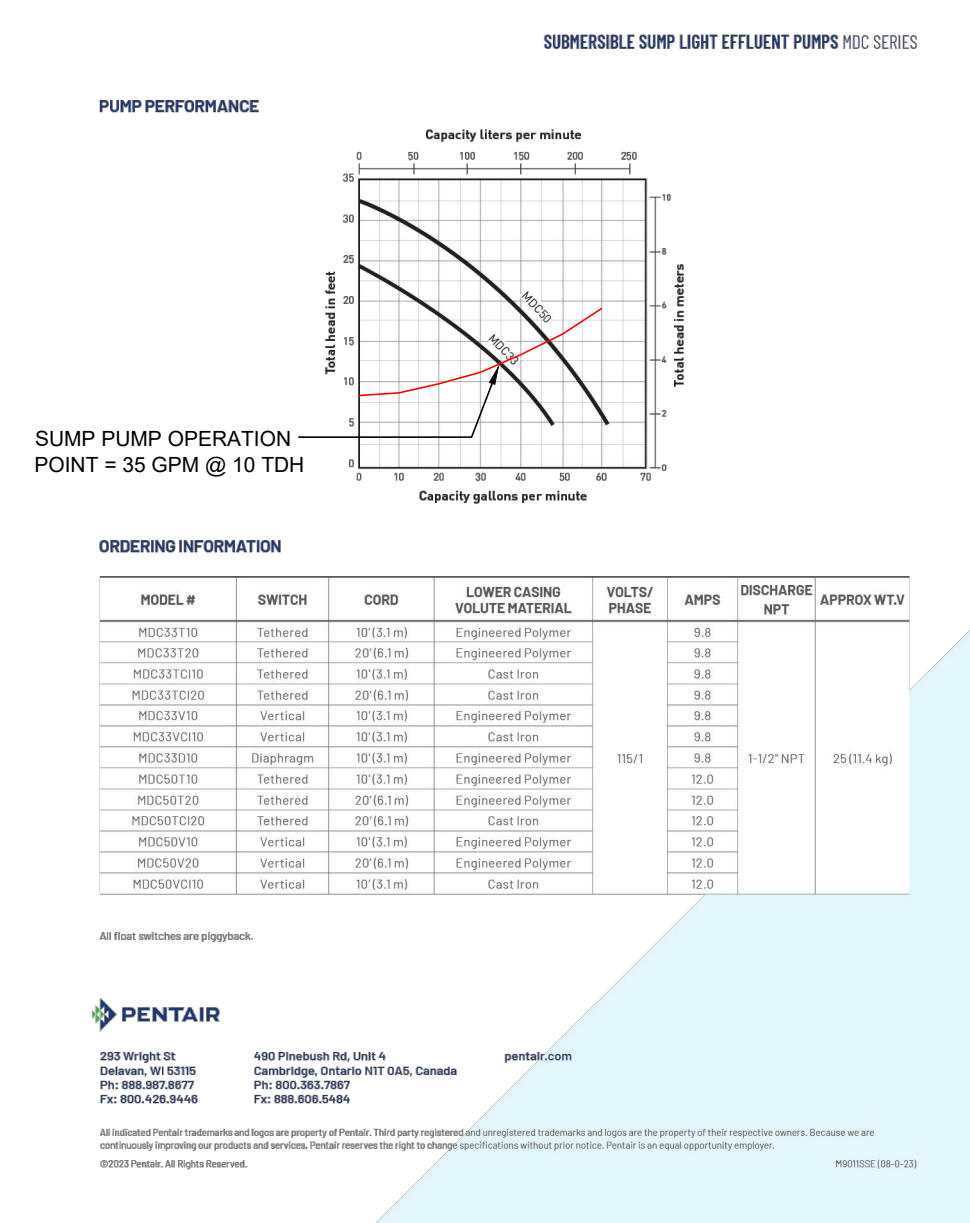
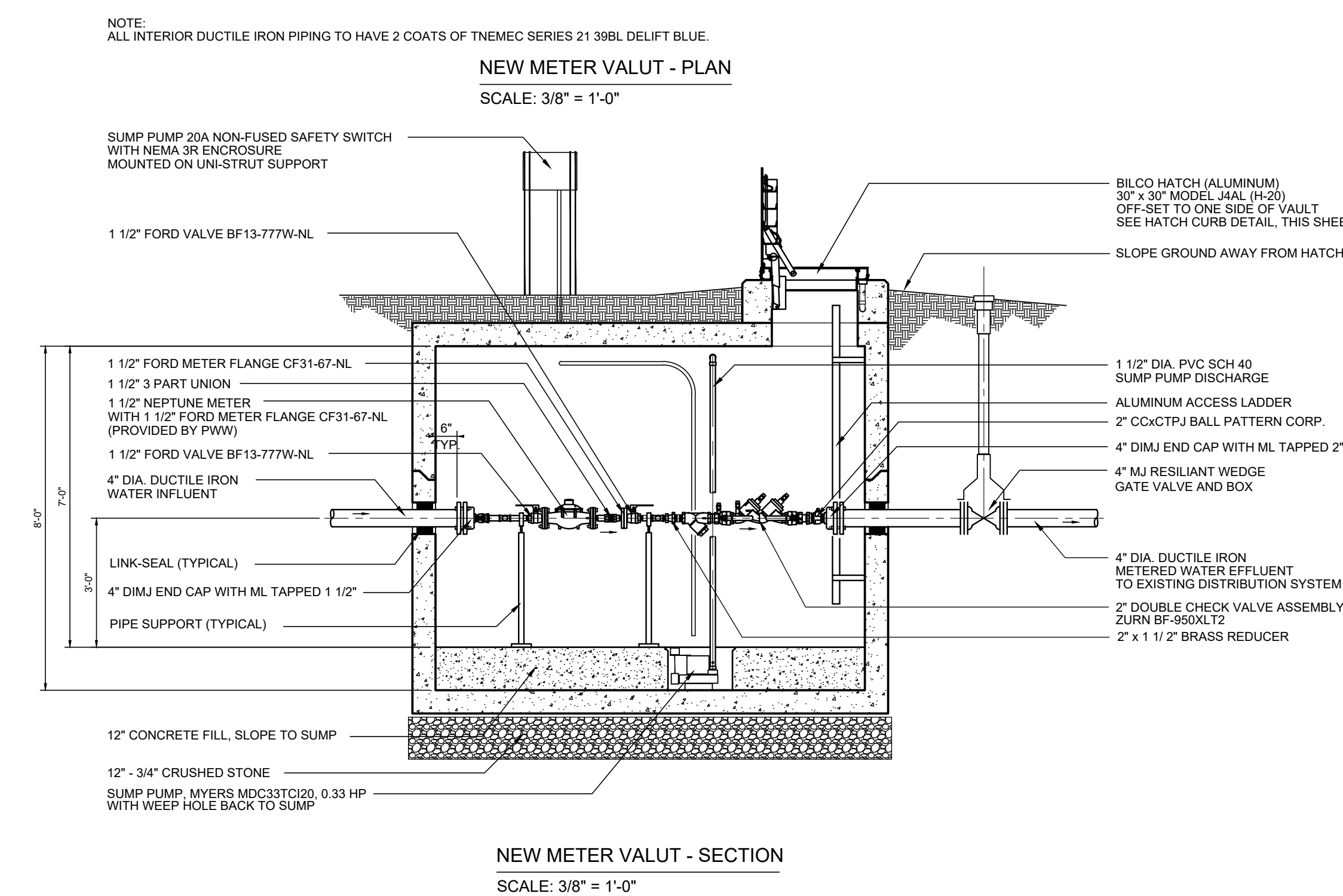
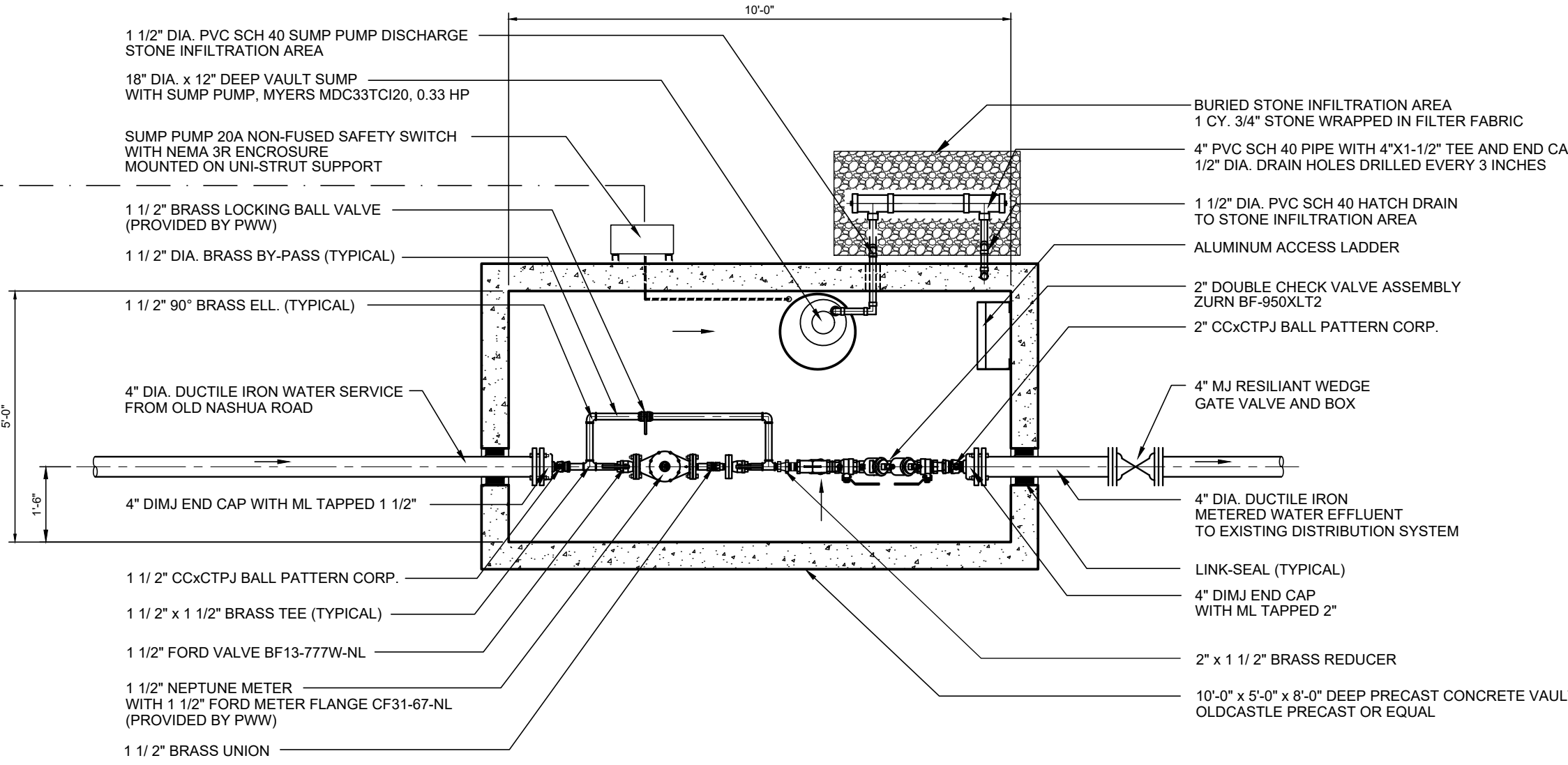
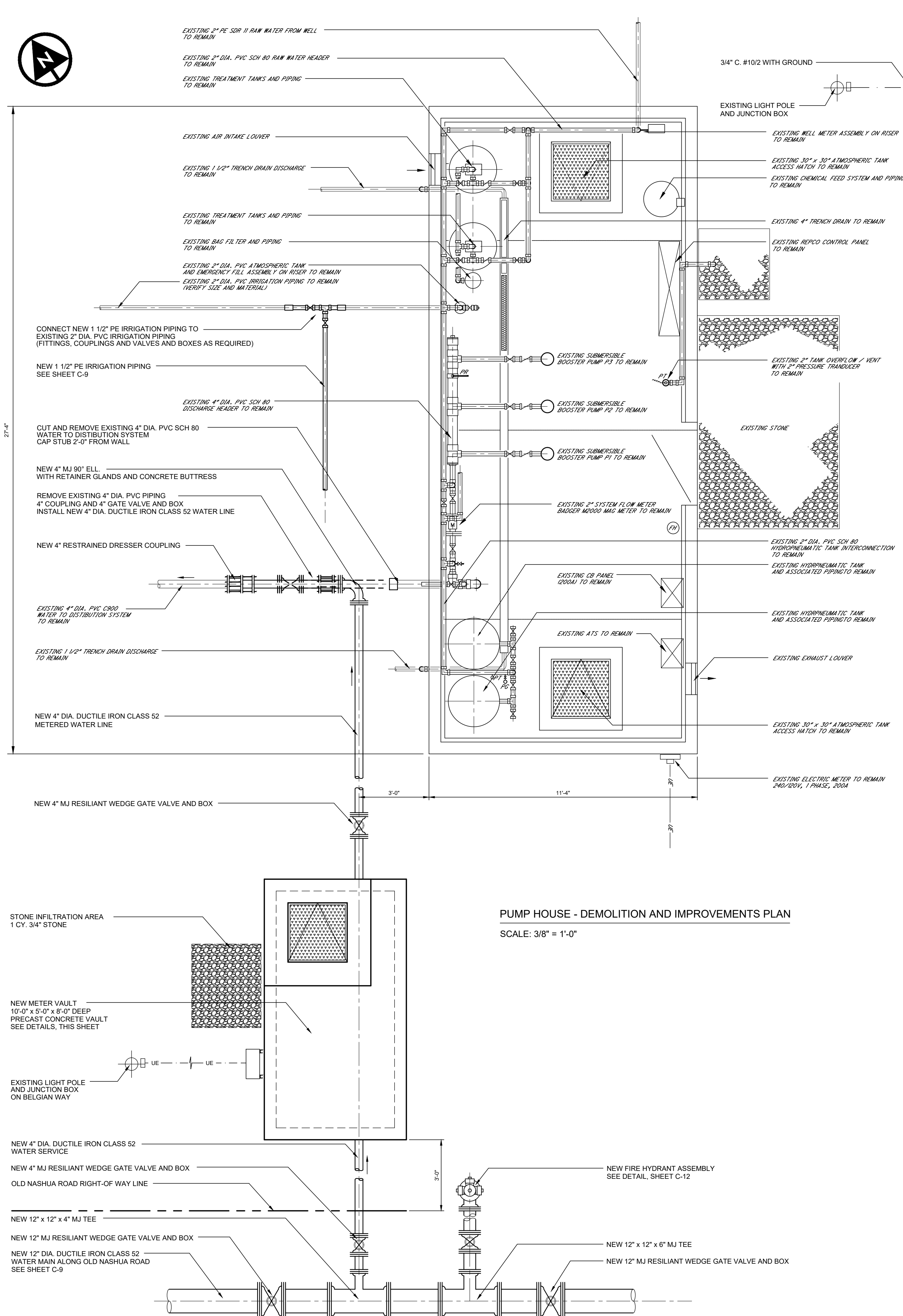
DATE  
09-16-2024

SCALE  
AS NOTED

SHEET  
C-14



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186 GRANITE STREET, SUITE 3A  
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STEVEN H. LEWANDOWSKI, P.E.

DESIGNED BY

DATE

03-21-2025

REVISION

1 ISSUED FOR BIDDING

NO.

1

STEVEN H. LEWANDOWSKI, P.E.

DRAWN BY

JTL

CHECKED BY

SHL

PROJECT NO.

16663

STEVEN H. LEWANDOWSKI, P.E.

03-04-2025

STATE: NH

LONDONDERRY-ROCKINGHAM-NEW HAMPSHIRE

ROLLING MEADOWS & HANAFIN FARMS

WATER MAIN INTERCONNECTION

HANAFIN PUMP HOUSE MODIFICATIONS DETAIL

DATE

09-16-2024

SCALE

3/8" = 1'-0"

SHEET

C-26