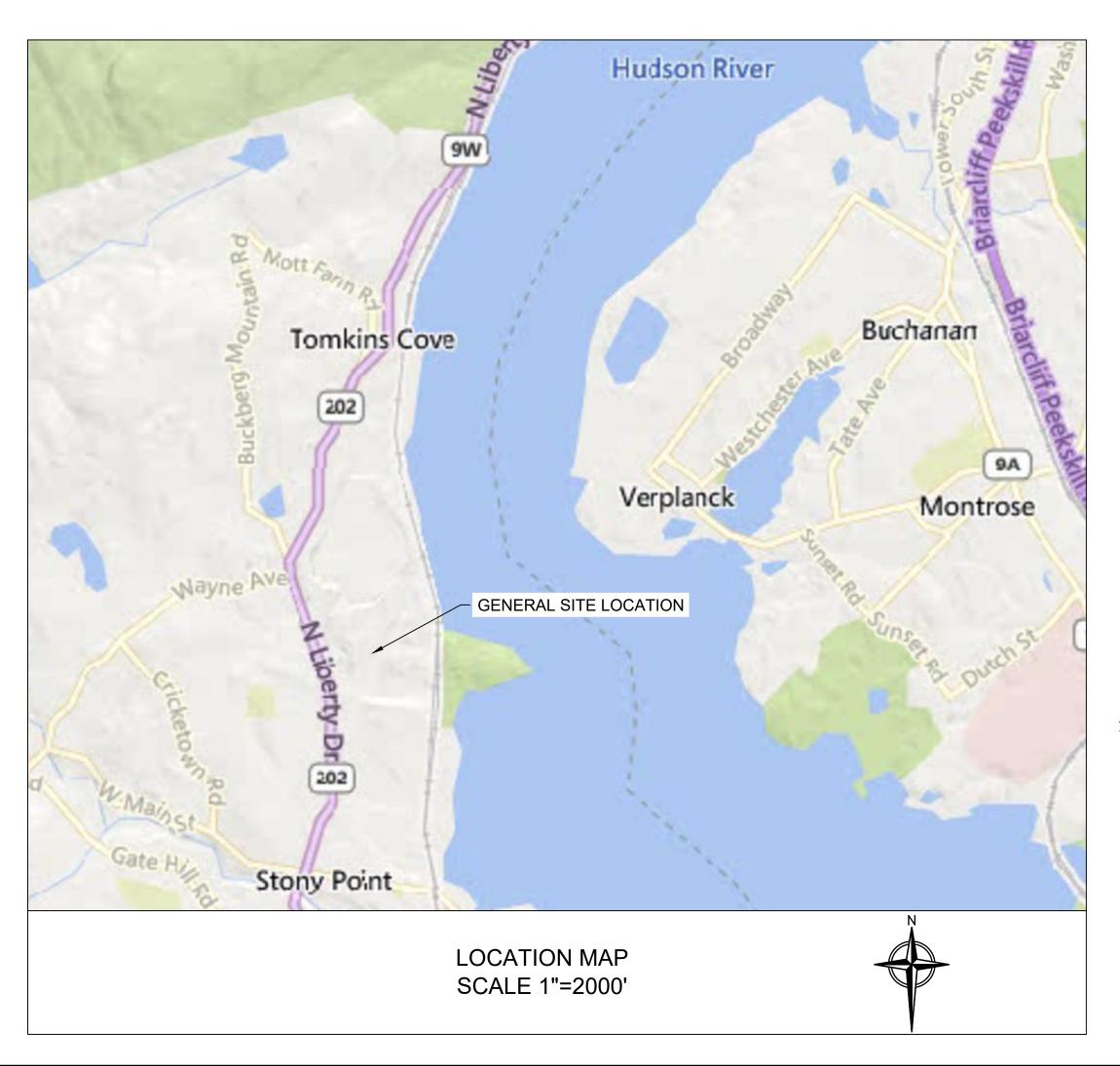


Appendix A. Plan and Profile Drawings

CHAMPLAIN HUDSON POWER EXPRESS STONY POINT HDD PLAN & PROFILE DRAWINGS

PROPERTY OWNER TABLE

| LANDS NOW OR FORMERLY OF | BOOK, PAGE NO. | TAX MAP ID NO. |
|--------------------------|----------------|----------------|
| TILCON NEW YORK, INC. | 1061, 797 | 15.02-4-59 |
| CSX TRANSPORTATION, INC. | NA | 7.00-1-3 |

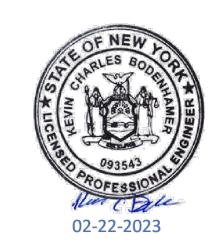


PREPARED FOR:

HUXTED TRENCHLESS 1306 N. FM 3083 ROAD CONROE, TEXAS 77303

SEPTEMBER 19, 2022 REVISED: JANUARY 24, 2023 REVISED: FEBRUARY 22, 2023





| SHEET NUMBER | DRAWING NUMBER | SHEET TITLE | | | | | |
|--------------|--------------------|--|--|--|--|--|--|
| | DIVAVVING NOIVIDEN | | | | | | |
| 1 | - | COVER | | | | | |
| 2 | N-1 | NOTES | | | | | |
| 3 | HDD-001 | 12" HDPE CONDUIT (1) | | | | | |
| 4 | HDD-002 | 12" HDPE CONDUIT (2) | | | | | |
| 5 | HDD-003 | LAYOUT PLAN | | | | | |
| 6 | HDD-004 | HDD EQUIPMENT LAYOUT PLAN | | | | | |
| 7 | HDD-005 | CSX RAILROAD CROSSING PLAN | | | | | |
| 8 | HDD-006 | CONDUCTOR PIPE/ GOAL POST/ GRAVITY CELL INSTALLATION | | | | | |
| 9 | HDD-007 | DETAILS | | | | | |
| 10 | MPT-001 | MPT AND ACCESS PLAN | | | | | |
| 11 | HDD-009 | TOMKINS COVE LAYDOWN AREA PLAN | | | | | |
| | | ATTACHMENTS | | | | | |

GENERAL NOTES:

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL NECESSARY CONSTRUCTION NOTIFICATIONS, PERMITS AND ACTIVITIES WITH THE CERTIFICATE HOLDERS PRIOR TO AND DURING CONSTRUCTION.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE NECESSARY ARRANGEMENTS IF TRAFFIC CONTROL PLANS AND/OR RAILROAD REPRESENTATION ARE REQUIRED.
- 3. CONTRACTOR TO LOCATE, MARK AND POTHOLE FOREIGN LINES AS NECESSARY PRIOR TO EXCAVATION (AND MONITOR DURING DRILLING).
- 4. CONTRACTOR TO DEVELOP A CROSSING PLAN WITH THE OWNER OF ANY FOREIGN PIPELINE CROSSED WITH DRILLING EQUIPMENT.
- 5. LOCATIONS OF EXISTING FACILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE AND/OR CONFIRM THE LOCATIONS AND DEPTH OF ALL UTILITIES, PIPELINES OR OTHER OBSTACLES PRIOR TO EXCAVATION. CONTRACTOR TO INFORM ENGINEER OF ANY UTILITY FOUND THAT MAY AFFECT HDD DESIGN.
- 6. CONTRACTOR TO SUPPORT EXISTING UTILITIES, PIPELINES AND/OR OTHER FEATURES.
- 7. CONTRACTOR TO GRADE EXCAVATION AREA AND RESTORE TO ORIGINAL CONDITIONS.
- 8. CONTRACTOR TO CONTACT STATE ONE CALL SYSTEM AT LEAST 72 HOURS PRIOR TO DRILLING.

REFERENCE NOTES

- 1. BASE PLAN REFERENCES A BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY C.T. MALE ASSOCIATES.
- 2. EXISTING TREE LINE WAS APPROXIMATED BY TRC FROM NEW YORK STATE GIS CLEARINGHOUSE FOR ROCKLAND COUNTY EARLY SPRING (MARCH OR APRIL) 2021 ORTHOIMAGERY.
- 3. WETLANDS WERE DELINEATED AND FLAGGED BY TRC IN MAY OF 2022.

PROJECTION SYSTEM

1. NAD83 / NEW YORK EAST (U.S. SURVEY FEET).

INSTALLATION NOTES:

- 1. ACCESS: ALL EQUIPMENT MUST ACCESS THE LIMITS OF DISTURBANCE FROM PREVIOUSLY IMPROVED PUBLIC OR APPROVED PRIVATE ROADS.
- 2. WORK SPACE: LIMITS OF DISTURBANCE ARE DEPICTED HEREIN. VEGETATION REMOVAL IS ANTICIPATED TO BE LIMITED TO PRUNING OF LIMBS AND TRIMMING OF UNDERGROWTH ALONG THE PERIMETER OF THE HDD WORKSPACE, NO HERBICIDE USE IS PERMITTED. CLEARING BETWEEN THE ENTRY AND EXIT POINTS IS NOT ANTICIPATED. THE DEBRIS GENERATED FROM THE LIMITED PRUNING OF TREES AND THE TRIMMING OF UNDERGROWTH WILL BE COLLECTED IN A ROLL OFF DUMPSTER AND DISPOSED OF AT THE CLARKSTOWN TRANSFER STATION, 166 S ROUTE 303, WEST NYACK, NY 10994.
- 3. WATER SOURCE: DRILL WATER SHALL BE OBTAINED FROM AN APPROVED SOURCE. THE CONTRACTOR WILL MAKE ARRANGEMENTS TO OBTAIN WATER FROM A LOCAL FIRE HYDRANT. WATER USAGE SHALL BE METERED AND OBTAINED THROUGH AN APPROVED BACK FLOW PREVENTER.
- 4. SPILL-PREVENTION: THE MOST RECENT VERSION OF THE SPILL PREVENTION PLAN (SPP) IS INCLUDED AS APPENDIX E OF THE CALDWELL MARINE HDD INSTALLATION MANUAL. THE CALDWELL MARINE HDD INSTALLATION MANUAL IS INCLUDED AS APPENDIX F OF THE ENVIRONMENTAL MANAGEMENT AND CONTROL PLAN (EM&CP). ALL REFUELING AND STORAGE IS ADDRESSED IN THE SPP. ALL PUMPS SHALL BE SET IN SECONDARY CONTAINMENT AND IN ACCORDANCE WITH THE SPP. EQUIPMENT AND PUMPS OPERATING WITHIN 100 FEET OF ANY WATER BODY OR WETLAND SHALL BE OPERATED AND REFUELED IN ACCORDANCE WITH THE SPP. EQUIPMENT REFUELING AND STORAGE OF HAZARDOUS MATERIALS, FUELS, ETC. SHALL BE CONDUCTED AT LEAST 100 FEET FROM WATER BODIES AND WETLAND WHERE PRACTICAL. EACH CONSTRUCTION CREW SHALL HAVE ON HAND SUFFICIENT TOOLS AND MATERIALS TO STOP LEAKS AND HAVE SUPPLIES OF ABSORBENT AND BARRIER MATERIALS TO ALLOW RAPID CONTAINMENT AND RECOVERY OF SPILLED MATERIALS.
- 5. EROSION AND SEDIMENT CONTROL: CONTRACTOR SHALL SUPPLY, INSTALL AND MAINTAIN SEDIMENT CONTROL STRUCTURES IN ACCORDANCE WITH CONTRACT DOCUMENTS. CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL STRUCTURES AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR OR AS NEEDED TO ENSURE SEDIMENT-LADEN RUNOFF FROM NEWLY DISTURBED AREAS IS PREVENTED FROM FLOWING OUTSIDE THE LIMITS OF DISTURBANCE.
- 6. MUD DISPOSAL: CONTRACTOR SHALL DISPOSE OF EXCESS DRILLING MUD AS DIRECTED BY THE COMPANY REPRESENTATIVE IN ACCORDANCE WITH PERMIT CONDITIONS. UNDER NO CIRCUMSTANCES SHALL DRILLING FLUID BE DISPOSED OF IN WATER BODIES OR WETLANDS. ANY DRILLING MUD WHICH INADVERTENTLY EXITS AT POINTS OTHER THAN THE ENTRY AND EXIT POINTS SHALL BE CONTAINED AND COLLECTED TO THE EXTENT PRACTICAL AND DISPOSED OF AS DIRECTED BY THE COMPANY REPRESENTATIVE IN ACCORDANCE WITH PERMIT CONDITIONS. DRILLING MUD WILL BE DISPOSED OF AT CLEAN EARTH NEW JERSEY, IN KEARNY, NJ OR AT AN ALTERNATE APPROVED FACILITY.
- 7. HDD CUTTINGS WILL BE DISPOSED OF AT CLEAN EARTH NEW JERSEY, IN KEARNY, NJ OR AT AN ALTERNATE APPROVED FACILITY.
- 8. CLEANUP/STABILIZATION/RESTORATION: ALL DISTURBED AREAS SHALL BE RETURNED TO THE ORIGINAL CONDITIONS. DISTURBED AREAS SHALL BE SEEDED AND TEMPORARY EROSION/SEDIMENT CONTROL DEVICES SHALL BE REMOVED ONCE THE CONTRIBUTING DISTURBED AREAS ARE STABILIZED AND APPROVED BY THE QUALIFIED INSPECTOR. REFER TO THE SEED MIXTURES LISTED IN TABLE 4.4 OF APPENDIX G OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP IS INCLUDED AS APPENDIX H OF THE EM&CP.
- 9. CONTRACTOR SHALL USE A GYROSCOPIC DRILL HEAD ON THE PILOT DRILL TO ENSURE ACCURATE EXIT LOCATION WITHIN THE TEMPORARY MODULAR GRAVITY CELLS.

PROPOSED LEGEND

LIMITS OF DISTURBANCE

SF SILT FENCE

LAYDOWN AREA

PERMITTED DEVIATION ZONE

SUGGESTED DEVIATION ZONE

HDD CONDUIT

HDD ENTRY/EXIT POINTS

GEOTECH BORE HOLE LOCATIONS

EXISTING LEGEND

EXISTING TREE LINE

RAILROAD TRACKS

OVERHEAD WIRES

UNDERGROUND UTILITY

EXISTING FENCE

MAJOR CONTOUR

MINOR CONTOUR

WETLAND

100-FOOT WETLAND ADJACENT AREA

PARCEL BOUNDARIES

EXISTING NATURAL VEGETATION

EXISTING UTILITY POLE

STONY POINT HDD

NOTES & LEGEND

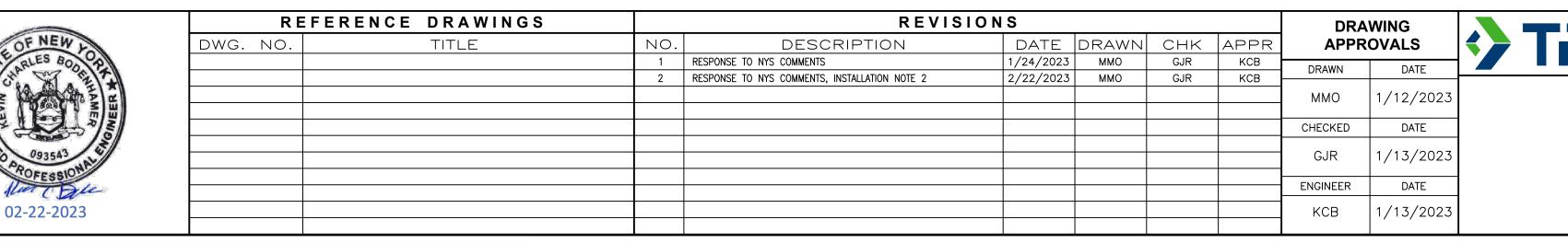
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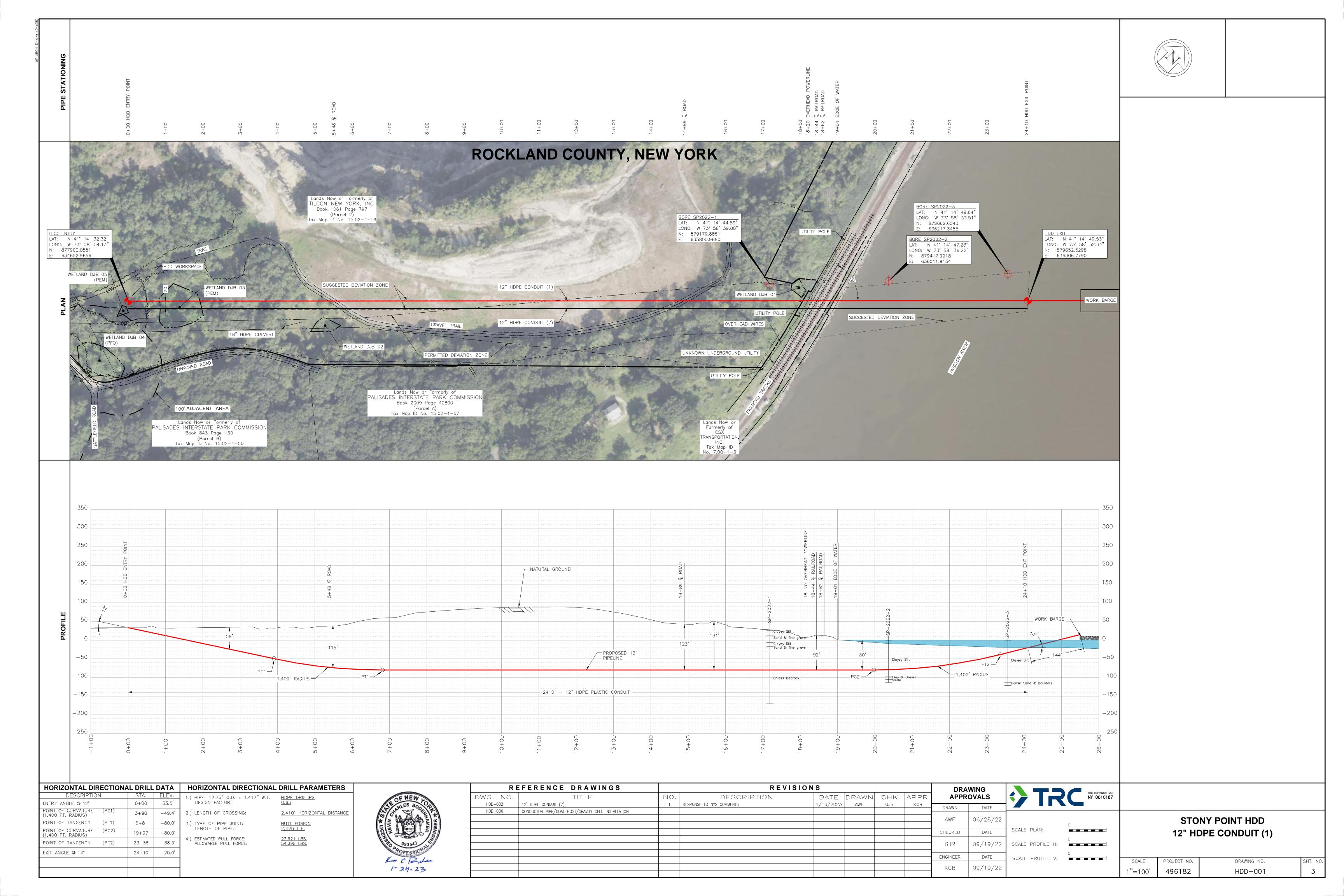
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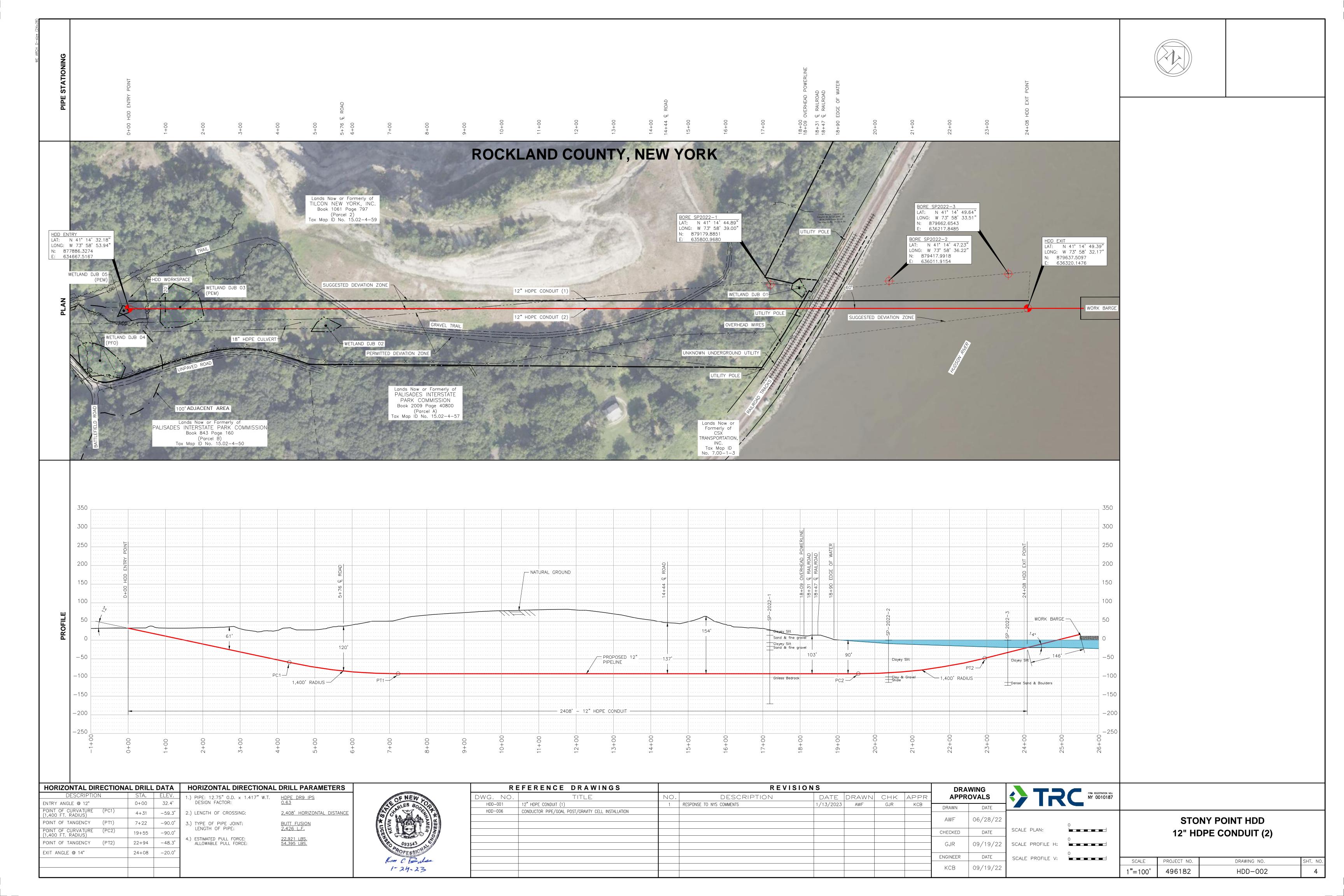
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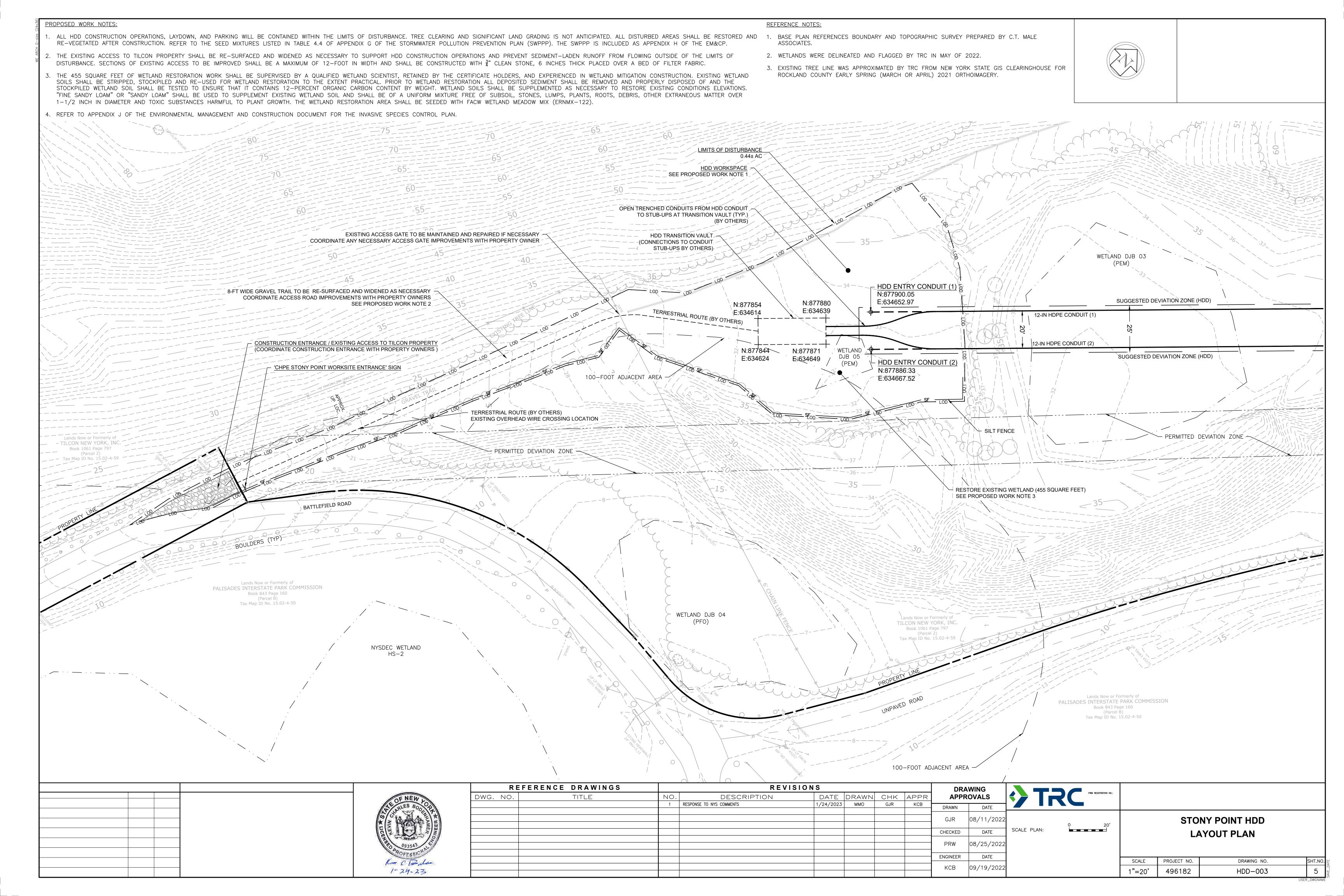
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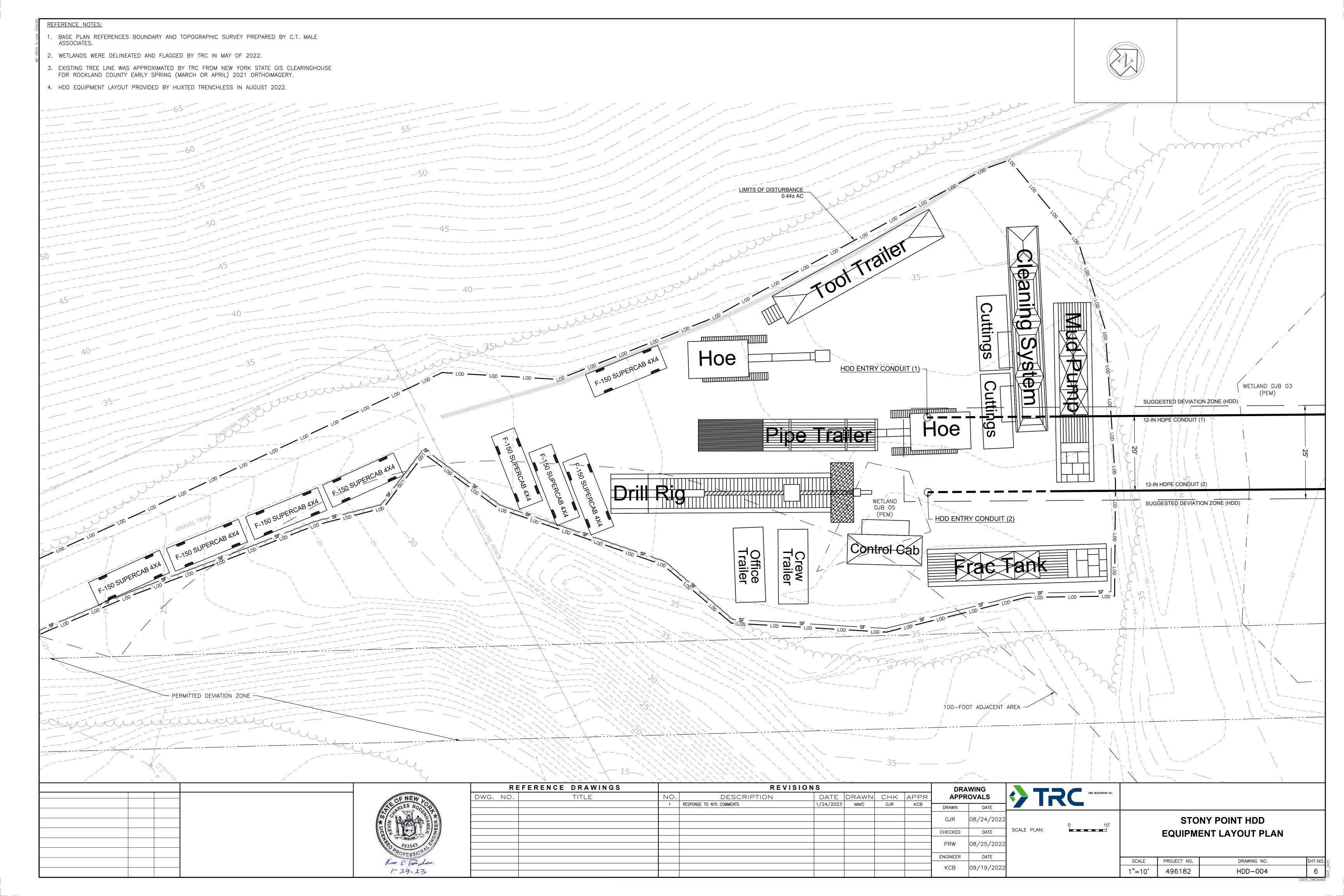
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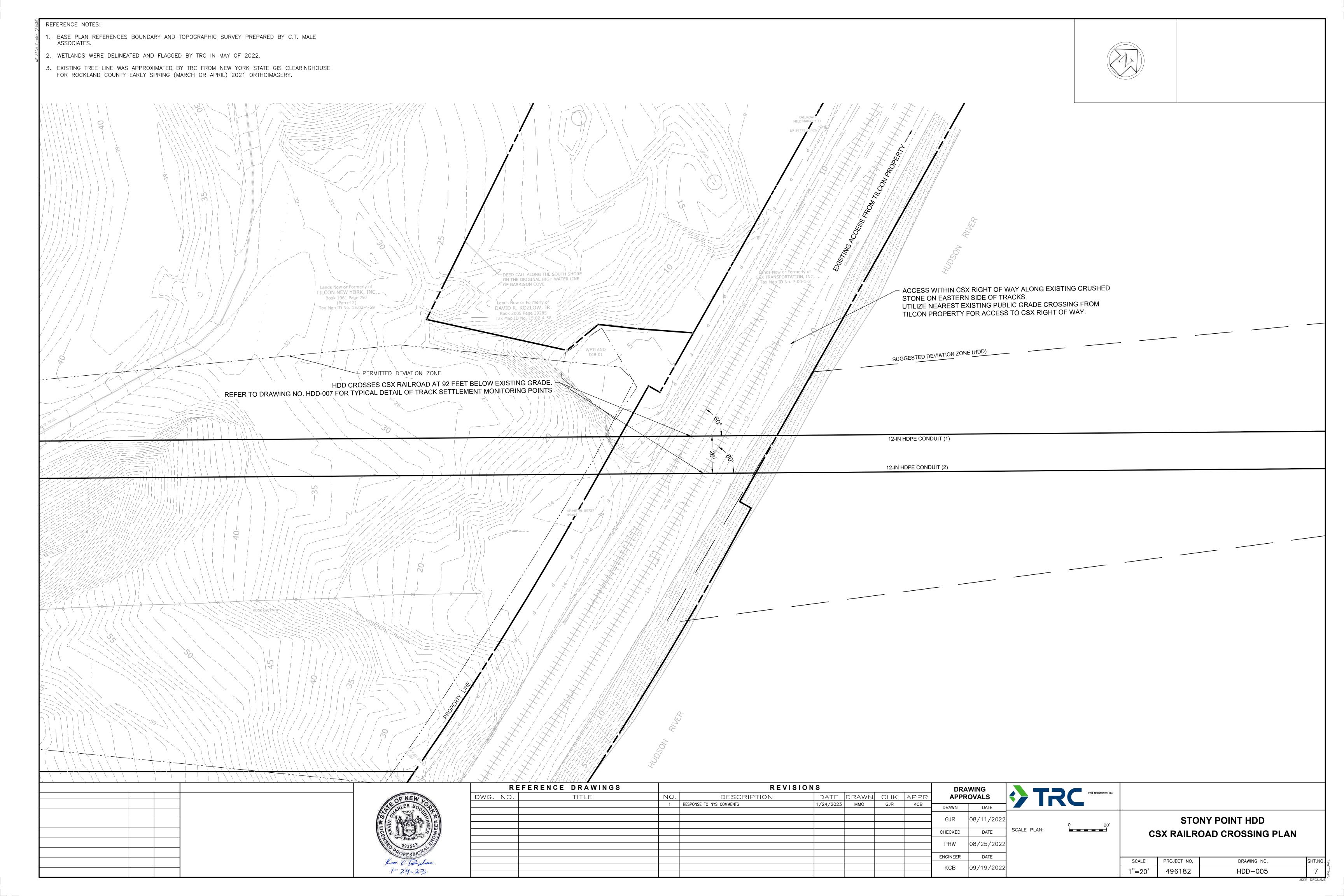


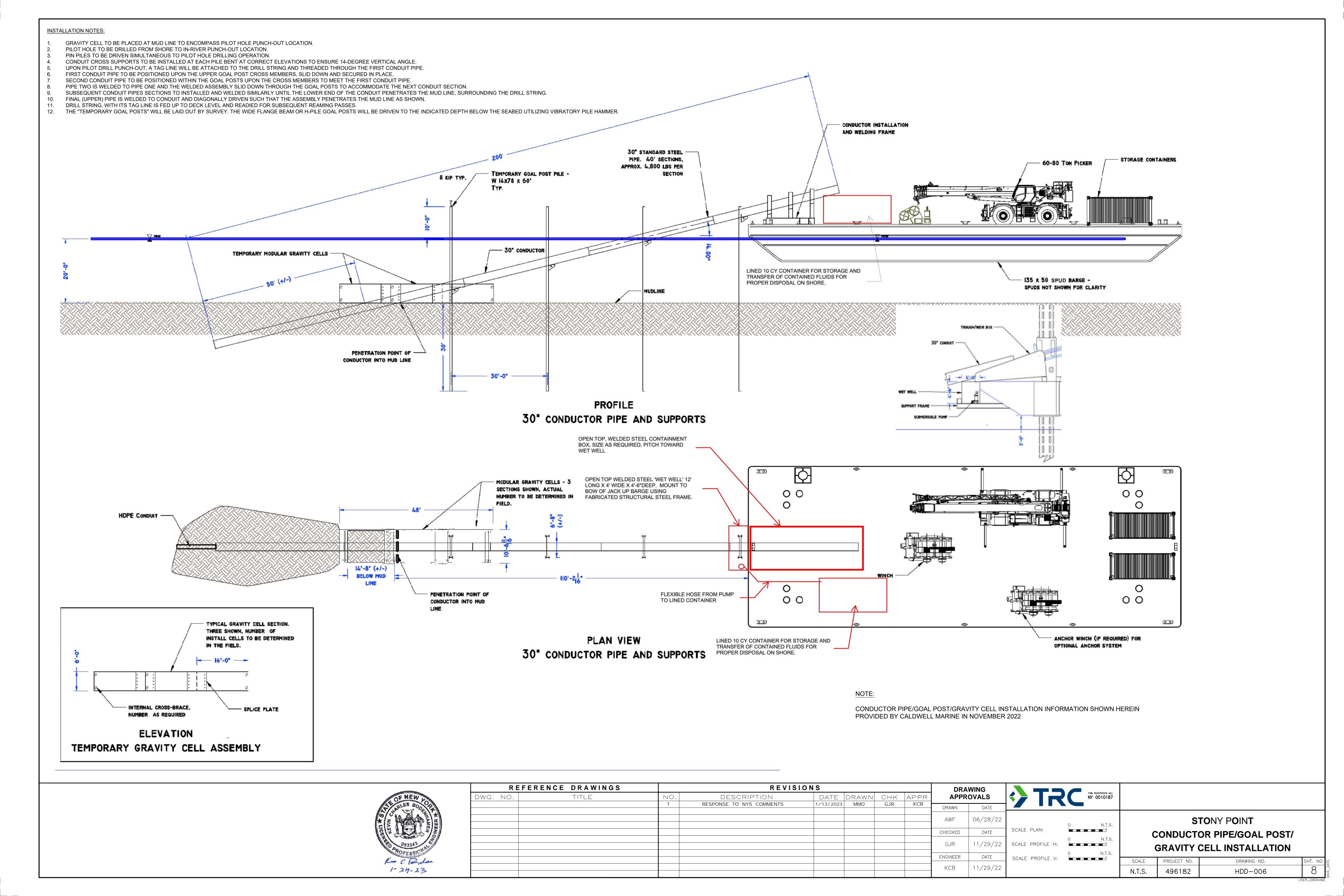


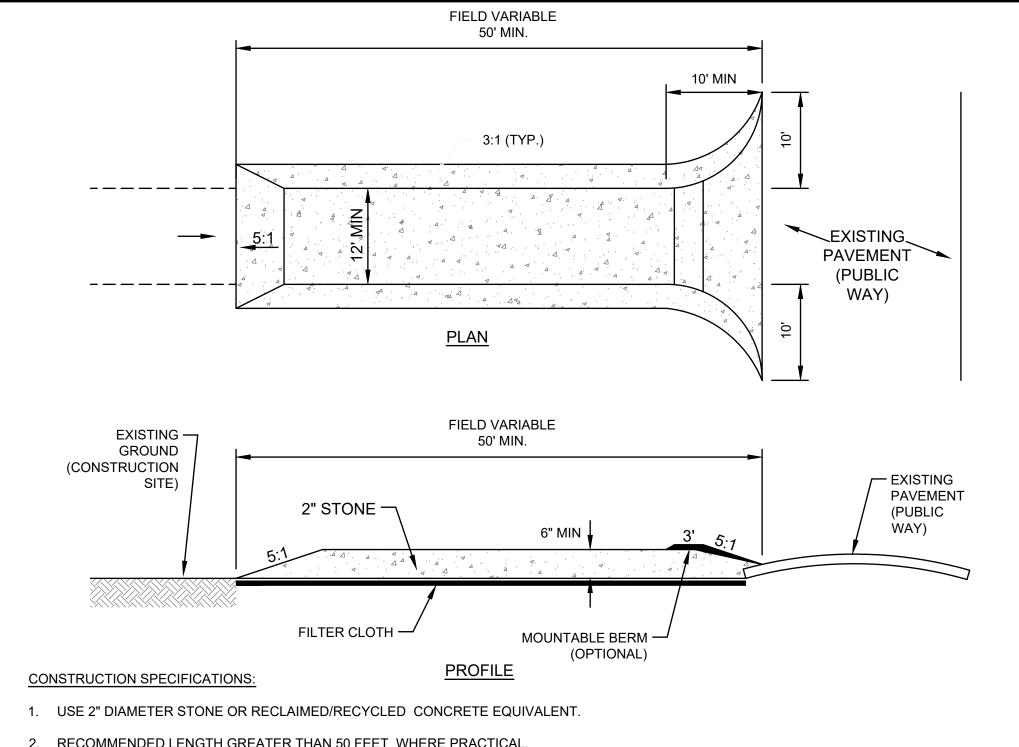




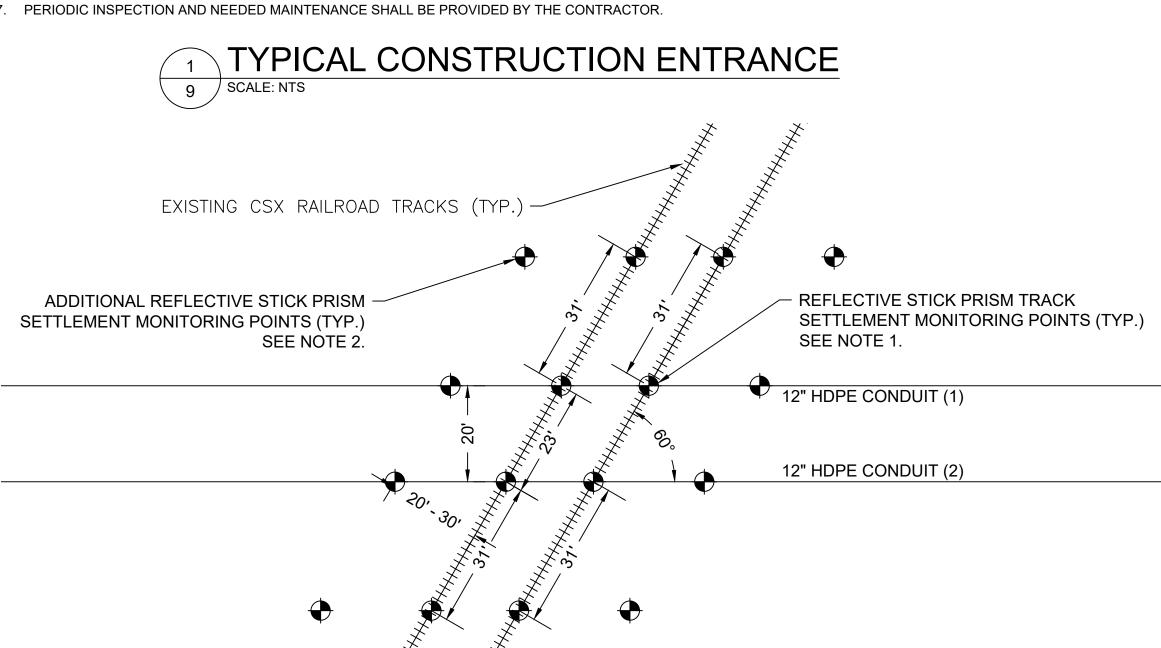








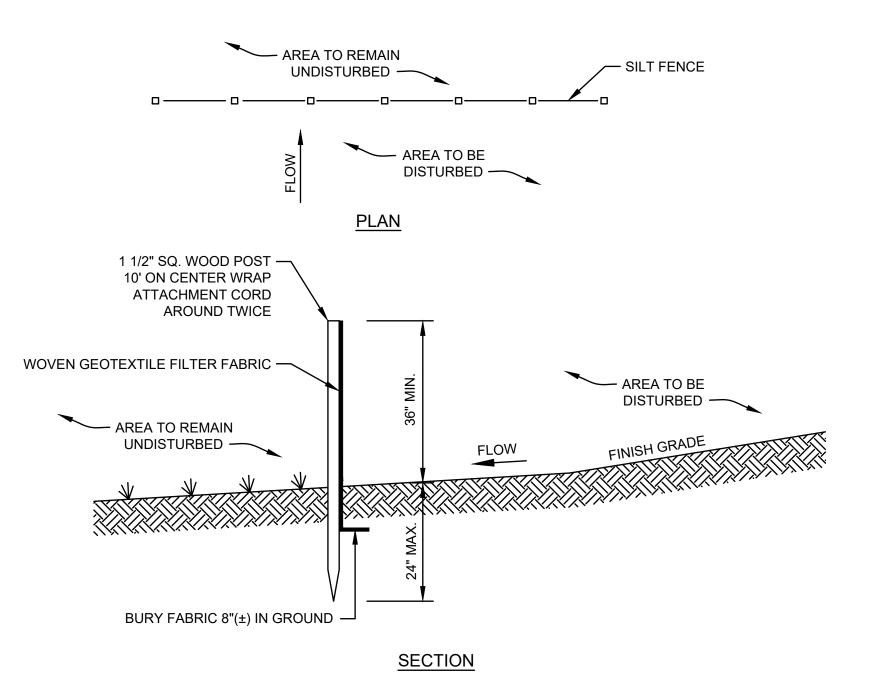
- 2. RECOMMENDED LENGTH GREATER THAN 50 FEET WHERE PRACTICAL.
- 3. THICKNESS NOT LESS THAN 6 INCHES.
- 4. 12-FOOT MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR.
- 5. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 6. EGRESS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.



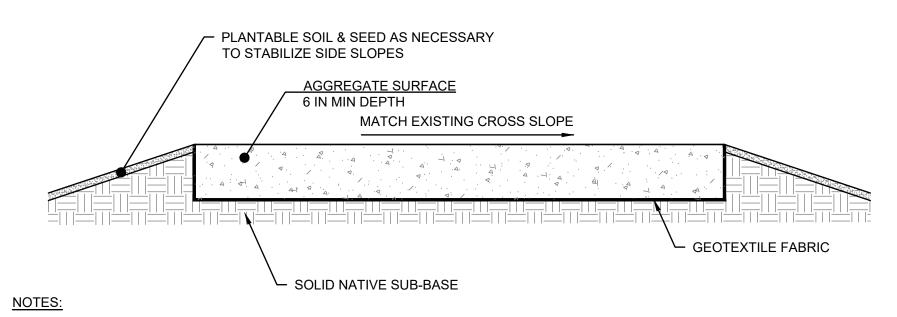
- 1. SURVEY PRISMS USED FOR TRACK SETTLEMENT MONITORING POINTS SHALL BE INSTALLED ON THE FIELD SIDE WEB OF THE OUTSIDE RAIL OR ON THE TOP OF TIE. CONTRACTOR TO FIELD LOCATE AND MARKOUT TRACK SETTLEMENT MONITORING POINTS FOR CSX APPROVAL PRIOR TO INSTALLATION.
- 2. SURVEY PRISMS USED FOR ADDITIONAL SETTLEMENT MONITORING POINTS SHALL BE ATTACHED TO SHORT (18 TO 24 INCH LENGTH) STEEL REBAR POSTS DRIVEN INTO THE EARTH TO PROTRUDE NO MORE THAN 4 INCHES ABOVE GRADE. PROTRUDING POSTS SHALL BE PAINTED IN HIGHLY VISIBLE NON-REFLECTIVE COVER. CONTRACTOR TO FIELD LOCATE AND MARK ADDITIONAL SETTLEMENT MONITORING POINTS FOR CSX APPROVAL PRIOR TO INSTALLATION.
- 3. CSX SHALL MARKOUT OR CLEAR THE PROPOSED MONITORING LOCATIONS FOR THE PRESENCE OF BURIED UTILITIES PRIOR TO INSTALLATION OF THE MONITORING POINTS.
- 4. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF, AND ACCESS TO, ALL MONITORING POINTS WITH CSX.
- INSTALLATION OF MONITORING POINTS REQUIRES TRACK PROTECTION PROVIDED BY A CSXT FLAGGER.
- 4 CSX RAILROAD CROSSING MONITORING LOCATIONS SCHEMATIC 9 SCALE: NTS





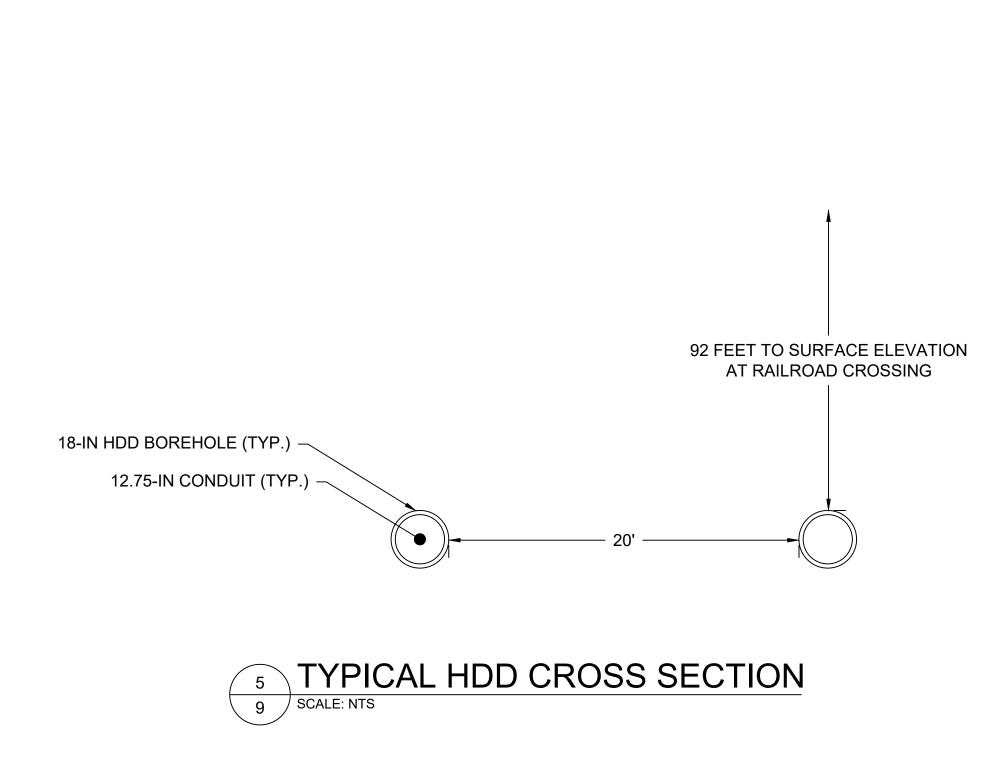


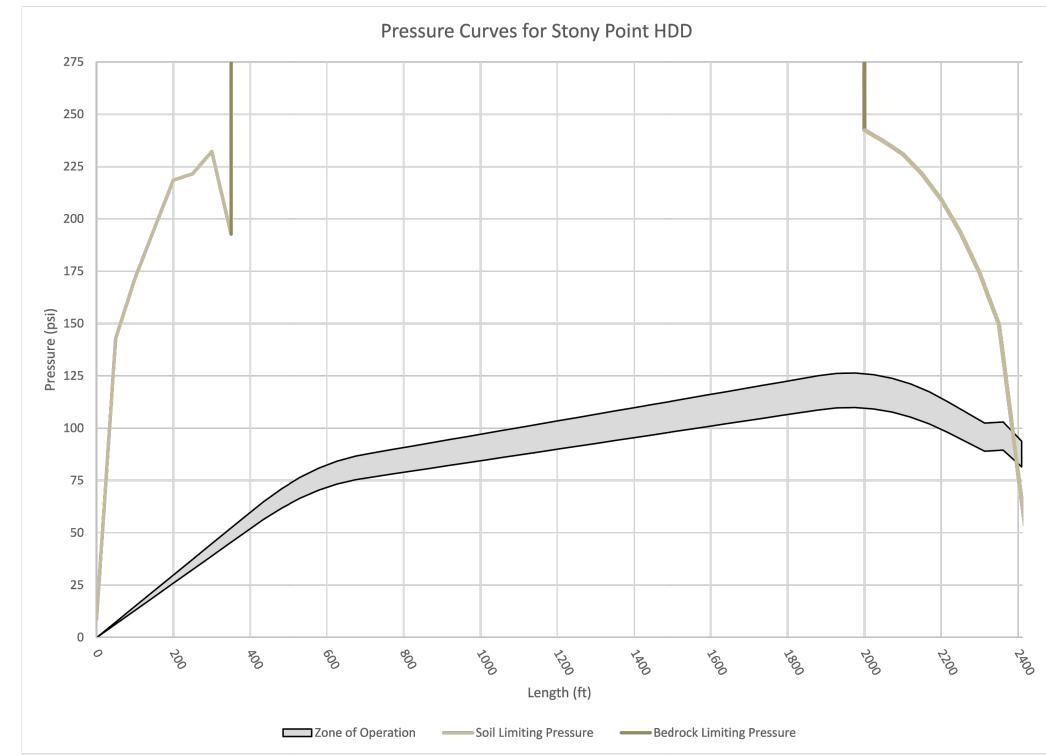
TYPICAL SILT FENCE



- 1. WIDTH OF THE ACCESS ROAD WILL BE 12 FEET.
- 2. EXISTING TOPSOIL WILL BE REMOVED AS NECESSARY UNTIL A SOLID NATIVE SUB-BASE HAS BEEN REACHED. SCARIFY SOLID NATIVE SUB-BASE AND EXISTING ROAD SURFACE AS NECESSARY TO PROMOTE INFILTRATION PRIOR TO RESURFACING AND WIDENING.
- 3. A GEOTEXTILE FABRIC WILL BE INSTALLED ON TOP OF THE SOLID NATIVE SUB-BASE BEFORE THE AGGREGATE SURFACE IS INSTALLED.
- 4. THE AGGREGATE SURFACE SHALL BE A MINIMUM OF 6 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF $\frac{3}{4}$ INCH ANGULAR GRAVEL BORROW OR WELL-GRADED CRUSHED STONE.
- 5. AGGREGATE COMPACTION SHALL BE A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY COMPACTED IN 6 INCH
- 6. MAXIMUM GRADE SHALL BE NO STEEPER THAN 8%.

3 TYPICAL ACCESS ROAD





6 TYPICAL HDD PRESSURE CURVE

| REFERENCE DRAWINGS REVISIONS | | | | | DRAWING | | | | | | |
|------------------------------|-----------------------|------|--------------------------|-----------|---------|---------------|-----|-----------------------|------------|--|--|
| DWG. NO. TITLE | TITLE NO. DESCRIPTION | DATE | DRAWN CH | CHK APPR | APPR | PPR APPROVALS | | FIRM REGIST NY 00: | 0187 | | |
| | | 1 | RESPONSE TO NYS COMMENTS | 1/24/2023 | ММО | GJR | KCB | DRAWN | DATE | | |
| | | | | | | | | ММО | 08/24/2022 | | |
| | | | | | | | | CHECKED | DATE | | |
| | | | | | | | | GJR | 1/17/2023 | | |
| | | | | | | | | ENGINEER | DATE | | |
| | | | | | | | | KCB | 1/17/2023 | | |

STONY POINT HDD DETAILS

PROJECT NO. DRAWING NO. SCALE HDD-007 PROPOSED WORK NOTES: REFERENCE NOTES: 1. WETLANDS WERE DELINEATED AND FLAGGED BY TRC IN MAY OF 2022 AND 1. CONSTRUCTION VEHICLES WILL UTILIZE THE ACCESS ROUTE SHOWN ALONG PUBLIC RIGHTS OF WAY, NO IMPROVEMENTS TO PUBLIC ROADS ARE PROPOSED. MINOR ACCESS SURFACE IMPROVEMENTS TO THE EXISTING PRIVATE ACCESS ROAD ONTO TILCON PROPERTY AND INSTALLATION OF ADDITIONAL EROSION CONTROLS WILL BE IMPLEMENTED AS NECESSARY TO PREVENT SEDIMENT-LADEN RUNOFF FROM FLOWING OUTSIDE OF THE LIMITS OF DISTURBANCE. SUPPLEMENTED WITH NYSDEC FRESHWATER WETLANDS GIS DATA. 2. MPT PLAN: 2. AERIAL PHOTOGRAPHY OBTAINED FROM THE NEW YORK GIS CLEARINGHOUSE, STATEWIDE DIGITAL ORTHOIMAGERY PROGRAM, DATED SEPTEMBER 2021. 2.1. TEMPORARY 'CONSTRUCTION TRAFFIC AHEAD' WARNING SIGNS WILL BE INSTALLED 100—FEET FROM THE CONSTRUCTION ENTRANCE/EXISTING ACCESS TO TILCON PROPERTY ON BOTH BATTLEFIELD ROAD APPROACHES. FINAL SIGN TEXT AND LOCATIONS TO BE COORDINATED WITH AND APPROVED BY THE LAND OWNERS AND CERTIFICATE HOLDERS. 3. PARCEL DATA OBTAINED FROM ROCKLAND COUNTY, OFFICIAL STONY POINT PARCELS, DATED FEBRUARY 2022. 2.2. THE CONTRACTOR SHALL PROVIDE A FLAGGER DURING HEAVY EQUIPMENT DELIVERY TO THE HDD WORKSITE IN ACCORDANCE WITH CHAPTER 6E. FLAGGER CONTROL, OF THE 2009 MUTCD, REVISION 3 DATED JULY 2022. CONSTRUCTION TRAFFIC AHEAD TILCON NEW YORK, INC. Book 1061 Page 797 (Parcel 2) Tax Map ID No. 15.02-4-59 W20-1 (MOD) REFER TO INSET VIEW FOR MPT PLAN SCHEMATIC 'CHPE STONY POINT WORKSITE ENTRANCE' SIGN BATTLEFIELD ROAD NO MAJOR ACCESS IMPROVEMENTS ANTICIPATED. HDD WORKSPACE.
REFER TO DRAWING HDD-03 FOR 'CONSTRUCTION TRAFFIC AHEAD' 'CONSTRUCTION TRAFFIC AHEAD' MINOR IMPROVEMENTS MAY BE REQUIRED AS WARNING SIGN WARNING SIGN NECESSARY TO ENSURE SAFE ACCESS. LAYOUT PLAN. SEE PROPOSED WORK NOTES. CONSTRUCTION CHPE STONY POINT WORKSITE TRAFFIC AHEAD ENTRANCE' SIGN SEE PROPOSED WORK NOTE 2 INSET VIEW- MPT PLAN SCHEMATIC W20-1 (MOD) WETLAND DJB 03 - WETLAND ACCESS TO STONY POINT HDD 100-FOOT ADJACENT AREA WORK SITE ALONG PUBLIC RIGHT OF WAY. NYSDEC WETLAND HS-2 Lands Now or Formerly of PALISADES INTERSTATE PARK COMMISSION Book 843 Page 160 (Parcel B) Tax Map ID No. 15.02-4-50 - CONSTRUCTION VEHICLES WILL UTILIZE NYSDEC THE SOUTHERN ENTRANCE OF PARK ROAD FROM N LIBERTY DRIVE TO ACCESS WETLAND THE STONY POINT HDD WORK SITE REFERENCE DRAWINGS REVISIONS **DRAWING** DESCRIPTION **APPROVALS** TITLE DATE DRAWN CHK APPR DWG. NO. NO. 2/22/2023 MMO GJR KCB 1 RESPONSE TO NYS COMMENTS, MPT PLAN DRAWN STONY POINT HDD MMO 1/12/2023 SCALE PLAN: **MPT AND ACCESS PLAN** CHECKED DATE 1/24/2023 GJR DATE ENGINEER SCALE PROJECT NO. DRAWING NO. 1/24/2023 02-22-2023 1"=80' 496182 MPT-001