



2024 Road Resurfacing Project

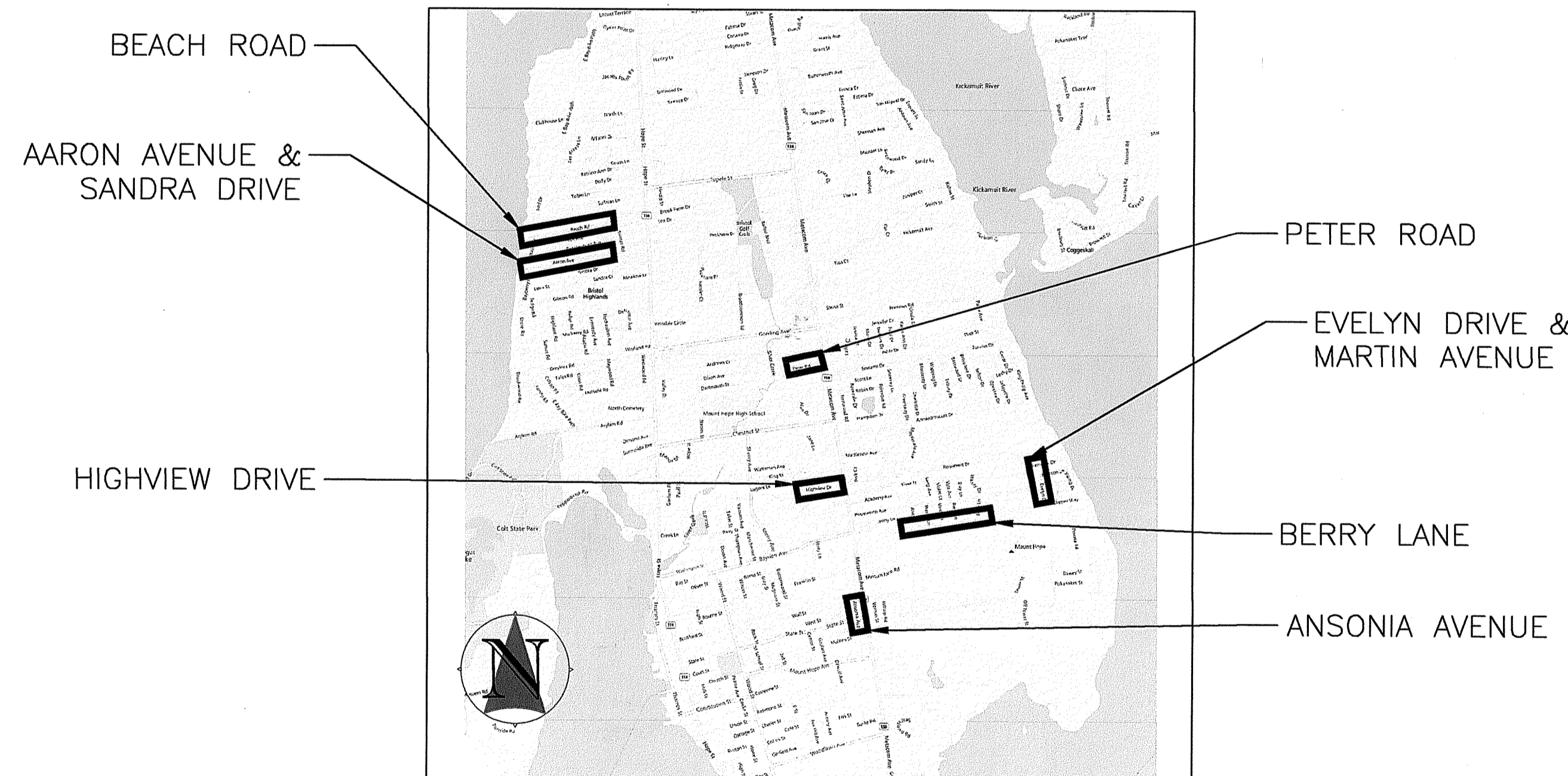
Department of Public Works

Town of Bristol, Rhode Island

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Steven Contente
Town Administrator



Location Plan
Not to Scale

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

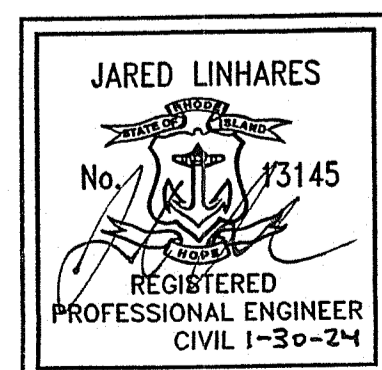
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 17 2024 FILE # 24-0017

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Andy Cloutier

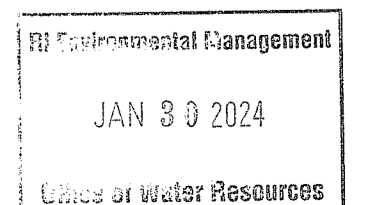
Permitting Submission



Plans Prepared by:



January 2024



GENERAL NOTES:

- 1. VERTICAL DATUM - NAVD 88.
2. THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION (AMENDED AUGUST 2023) AND ALL APPROVED REVISIONS IN THE COMPILATIONS OF APPROVED SPECIFICATIONS, THE LATEST EDITION OF THE RHODE ISLAND STANDARD DETAILS WITH REVISIONS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE RIDOT TRAFFIC DESIGN MANUAL (OCTOBER 2004), THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z-60.1-1986) AND ALL AMENDMENTS WILL GOVERN.
3. EXISTING BASE MAPPING (TOPOGRAPHY AND PHYSICAL FEATURE LOCATIONS) WAS CREATED FROM A FIELD SURVEY COMPLETED BY DIPRETE ENGINEERING, INC., CRANSTON, RI.
4. THE LOCATION OF SUBSURFACE UTILITIES SHOWN IS APPROXIMATE AND NOT GUARANTEED TO BE COMPLETE OR ACCURATE. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITY LINES AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR MUST NOTIFY DIG SAFE PRIOR TO ANY EXCAVATION, DEMOLITION OR EXPLOSION WORK IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT OF WAYS OR EASEMENTS.
5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
6. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SANITARY STRUCTURES AS NECESSARY FOR THE CHANGES IN GRADE, AND RESET ALL WATER, AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK CONFORMING TO M04.03.1.
7. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, CABLE TV, FIRE ALARM AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES. ALL UTILITY CASTINGS AND FIRE ALARM BOXES SHALL BE ADJUSTED TO FINISHED GRADE BY THEIR RESPECTIVE OWNERS.
8. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
9. THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
10. TRENCH DEWATERING IS ANTICIPATED FOR THIS WORK AND DISCHARGE OF FINES OR SEDIMENTS IS NOT PERMITTED. SEE SOIL EROSION AND SEDIMENTATION CONTROL NOTES.
11. CONTRACTOR SHALL VERIFY EXISTING GRADE ELEVATIONS. IF ANY ADJUSTMENT IS REQUIRED DUE TO DIFFERENT EXISTING GRADES FOUND IN THE FIELD, THE CONTRACTOR SHALL NOTIFY AND OBTAIN THE APPROVAL OF THE ENGINEER PRIOR TO PERFORMING THE WORK.
12. EXCEPT WHERE NOTED BY PROPOSED CONTOUR LINES, ALL FINAL CONTOUR LINE ELEVATIONS SHALL BE THE SAME AS EXISTING CONTOUR LINE ELEVATIONS.

TREE PRESERVATION:

- 1. TREES WITHIN THE LIMITS OF GRADING SHALL NOT BE REMOVED UNLESS APPROVED BY THE ENGINEER
2. PRIOR TO CONSTRUCTION PROTECT TREES WITHIN THE LIMIT OF DISTURBANCE BY INSTALLING WOOD FRAMING AROUND TREES, AS INDICATED IN THE CONTRACT DRAWINGS.
3. PRIOR TO CONSTRUCTION DETERMINE REQUIRED CLEARANCES AND CONTRACT LICENSED ARBORIST TO PRUNE TREES.
4. BRANCHES OR LIMBS DAMAGED DURING CONSTRUCTION SHALL BE CUT BACK TO THE TRUNK OR A LATERAL BRANCH.
5. MAKE EVERY EFFORT TO MAINTAIN EXCAVATION ACTIVITIES OUTSIDE LIMITS OF THE TREE CANOPY.
6. ROOTS LARGER THAN 1.5" IN DIAMETER ENCOUNTERED IN EXCAVATIONS SHALL BE CUT OFF SQUARELY USING A SHARP ARBORIST SAW.
7. STRIP AND SEGREGATE TOPSOIL PRIOR TO EXCAVATING IN UNPAVED AREAS. FOLLOWING BACKFILL OPERATIONS PLACE TOPSOIL BACK IN THE APPROPRIATE PLACE WITHOUT COMPACTION AND VERTICALLY MULCH ROOT SYSTEM. NO AMENDMENTS SHALL BE ADDED.
8. IMMEDIATELY FOLLOWING BACKFILL OPERATIONS PROVIDE DEEP WATERING OF THE ROOT SYSTEM, APPLICATION OF FERTILIZER, AND VERTICAL MULCHING.
9. MAINTAIN STORAGE OF EQUIPMENT AND MATERIALS A DISTANCE AT LEAST TWO (2) TIMES THE DISTANCE OF THE RADIUS OF THE TREE CANOPY.

SOIL EROSION AND SEDIMENTATION CONTROL:

- 1. ALL EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES WILL BE INSTALLED AND INSPECTED PRIOR TO THE START OF CONSTRUCTION. THE E&S CONTROLS SHALL BE CLEANED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION OPERATIONS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED AFTER CONSTRUCTION IS COMPLETE. E&S CONTROLS SHALL BE INSPECTED AND CLEANED AFTER ALL STORM EVENTS AND UPON THE REQUEST OF THE OWNER OR ENGINEER. CONTRACTOR WILL MAINTAIN AN ADEQUATE SUPPLY OF SILT SOCK ON SITE TO BE INSTALLED IN AREAS WHERE EXISTING E&S CONTROLS HAVE FAILED OR AS DETERMINED NECESSARY BY THE ENGINEER. NO WORK OR STORAGE OF CONSTRUCTION EQUIPMENT WILL BE PERMITTED OUTSIDE THE LIMIT OF DISTURBANCE ADJACENT TO THE WETLAND. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (SILT SOCKS, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED.
2. ALL CATCH BASINS SHALL BE PROTECTED WITH FILTER FABRIC INSERTS IN UNPAVED LOCATIONS AND PAVED OR OTHERWISE IMPERVIOUS AREAS FOR THE DURATION OF THE PROJECT.
3. CONSTRUCTION ENTRANCES CONSISTING OF STONE STABILIZED PAD SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR TO PREVENT TRACKING OF OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS.
4. ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK", LATEST EDITION, WITH ALL SOIL CONSERVATION SERVICE, AND/OR THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. UPON COMPLETION AND ACCEPTANCE OF SITE PREPARATION AND INITIAL INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES DURING ALL PHASES OF CONSTRUCTION ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.
6. ANY DISTURBED AREAS THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN 14 DAYS MUST BE STABILIZED USING THE CONTROL MEASURES, SUCH AS EROSION CONTROL MATTING, AND IN ACCORDANCE WITH APPLICABLE MEASURES SPECIFIED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK (AS AMENDED).
7. ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK BEING PERFORMED WITHIN 14 DAYS OF DISTURBANCE WILL BE CLEARED/GRUBBED AT ANY ONE TIME. IT IS NOT ACCEPTABLE TO CLEAR AND GRUB THE ENTIRE CONSTRUCTION SITE IF PORTIONS WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME. PROPER PHASING OF CLEARING AND GRUBBING ACTIVITIES SHALL INCLUDE TEMPORARY STABILIZATION TECHNIQUES FOR AREAS CLEARED AND GRUBBED THAT WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME.
8. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN TWENTY FOUR HOURS AFTER AN EVENT WHICH GENERATES 0.25 INCHES OF RAIN IN A TWENTY FOUR HOUR PERIOD. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE SILT SOCK SHALL BE PERFORMED WHEN 1/2 THE ORIGINAL HEIGHT OF THE SILT SOCK BECOMES FILLED WITH SEDIMENT. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE HAS BEEN REMOVED SHOULD BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
9. VEGETATIVE PRACTICES ON DISTURBED SOILS, INCLUDING STOCKPILES, SHALL BEGIN AS SOON AS POSSIBLE BUT NO LATER THAN 14 DAYS AFTER THE LAST ACTIVITY IN THAT AREA UNLESS ACTIVITY IS TO RESUME WITHIN 21 DAYS.
10. AREAS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V SHALL BE STABILIZED WITH EROSION CONTROL MATS OR BLANKETS IN COMBINATION WITH SEEDING, AS INDICATED IN THE DRAWINGS AND SPECIFIED.
11. EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS, AND OTHER REFUSE SHALL BE DISCARDED OFF-SITE IN AN APPROPRIATE UPLAND LOCATION, OUTSIDE OF ALL REGULATED WETLAND AREAS.

DEWATERING:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUATE DESIGN AND IMPLEMENTATION OF THE DEWATERING SYSTEM.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE STATE AND LOCAL AUTHORITIES REGARDING THE OPERATION AND DISCHARGE OF THE DEWATERING SYSTEM.
3. DISPOSE OF ALL PUMPED WATER IN ACCORDANCE WITH RIDEN REQUIREMENTS.
4. DISCHARGE WATER THROUGH SETTLING BASINS OR METHOD APPROVED BY THE ENGINEER.
5. OPERATE DEWATERING SYSTEMS TO LOWER THE GROUNDWATER LEVEL IN EXCAVATIONS AND MAINTAIN 2' BELOW SUBGRADE ALLOWING ALL SUBSEQUENT WORK TO BE DONE ON A STABLE DRY SUBGRADE.
6. MODIFY DEWATERING PROCEDURES WHICH CAUSE, OR THREATEN TO CAUSE, DAMAGE TO NEW OR EXISTING FACILITIES, TO PREVENT FURTHER DAMAGE. MODIFICATIONS TO BE MADE AT NO ADDITIONAL EXPENSE TO THE OWNER. REPAIR DAMAGED FACILITIES AT CONTRACTOR'S EXPENSE.
7. DISCHARGE WATER IN A MANNER THAT WILL NOT CAUSE EROSION, FLOODING, DAMAGE TO PUBLIC OR PRIVATE AREAS, COMPLETED WORK, IMPROVED OR OTHERWISE.
8. REMOVE ALL MATERIAL AND EQUIPMENT FROM THE SITE UPON COMPLETION OF DEWATERING OPERATIONS.
9. REMOVE ALL DEWATERING WELLS OR SUMPS UPON COMPLETION OF THE WORK.

CONSTRUCTION REQUIREMENTS:

- 1. PROVIDE BYPASS PUMPING EQUIPMENT TO BYPASS WASTEWATER FLOWS AROUND WORK LOCATION IN ACCORDANCE WITH THE SPECIFICATIONS.
2. SCHEDULE UTILITY SHUTDOWNS (INCLUDING BUT NOT LIMITED TO SEWER, WATER AND GAS) IN ADVANCE WITH THE RESPECTIVE UTILITY PROVIDERS, AND PROVIDE ADVANCE NOTIFICATION TO THOSE WHO WILL BE AFFECTED BY AN INTERRUPTION IN SEWER, WATER OR GAS SERVICE IN ACCORDANCE WITH THE NOTIFICATION REQUIREMENTS FOR EACH UTILITY.
3. PIPE REMOVAL EACH DAY SHALL BE LIMITED TO THE AMOUNT THAT CAN BE REPLACED ON THAT SAME DAY.
4. SERVICE CONNECTIONS SHALL BE COMPLETELY REESTABLISHED AT THE END OF EACH DAY.
5. SERVICE CONNECTION LOCATIONS ARE APPROXIMATE. CONNECTIONS SHALL BE LOCATED DURING EXCAVATION AND PROTECTED. TIME AND EXPENSE REQUIRED TO WORK IN THIS MANNER SHALL BE PART OF THE BID AND SHALL NOT BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER.
6. EXISTING GAPPED SERVICE WYES SHALL NOT BE REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING THE DEPICTED LOCATIONS OF ANY AND ALL SANITARY SEWER SERVICES PRIOR TO THE START OF WORK.
8. ALL SANITARY SEWER SERVICE CONNECTIONS SHALL BE DYE-TESTED FOR VERIFICATION OF CONNECTIVITY TO SEWER MAIN PRIOR TO DISCONNECTION FROM THE EXISTING SEWER MAIN AND FOLLOWING RECONNECTION TO THE NEW SEWER MAIN.

SANITARY SEWER MODIFICATION/REPLACEMENT NOTES:

- WHERE EXIST. SANITARY SEWER PIPES AND/OR STRUCTURES ARE TO BE A) MODIFIED, OR B) REPLACED WITH NEW SANITARY SEWER PIPES IN THE SAME HORIZONTAL LOCATION, CONTRACTOR SHALL ADHERE TO THE FOLLOWING SEQUENCE OF WORK:
1) INSTALL MANHOLE TO MANHOLE BYPASS PUMPING SYSTEM FOR SANITARY SEWER FLOWS (CONTRACTOR TO DETERMINE PIPE AND SIZE OF BYPASS PUMPS AND PIPING).
2) LOCATE AND DYE TEST ALL EXISTING SEWER LATERAL CONNECTIONS ALONG THE EXISTING MAIN.
1) PERFORM EXISTING SEWER PIPE & STRUCTURE MODIFICATIONS OR REMOVAL AND NEW SEWER INSTALLATION; PROVIDE LATERAL WYES AT ALL EXISTING SEWER LATERAL LOCATIONS.
2) RECONNECT EXISTING SEWER LATERALS TO NEW SEWER MAIN; ADJUST SLOPES AND DEPTHS OF LATERAL PIPES BETWEEN EDGES OF ROADS AND SEWER MAIN USING APPROVED GASKETED PVC FITTINGS TO MEET NEW WYE ELEVATIONS.
3) RELOCATE SEWER BYPASS PUMPING SYSTEM TO NEXT SECTION OF PIPE TO BE INSTALLED.
4) DYE TEST ALL RECONNECTED SEWER LATERALS TO VERIFY CONNECTIONS TO NEW SEWER MAIN.
TEMPORARY SEWER SERVICE INTERRUPTIONS FOR NEW SEWER INSTALLATION SHALL LAST NO LONGER THAN TWELVE (12) HOURS, AND SHALL BE SCHEDULED WITH A MINIMUM FORTY-EIGHT (48) HOURS ADVANCE NOTICE TO THE AFFECTED PROPERTY OWNERS AS WELL AS NOTICE IMMEDIATELY PRIOR TO THE SHUTDOWN. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SCHEDULING HIS WORK IN A MANNER WHICH WILL MINIMIZE SERVICE INTERRUPTIONS.

GAS UTILITY GENERAL NOTES:

- 1. CONTRACTOR SHALL FOLLOW THE GUIDELINES LISTED IN RI ENERGY'S "GUIDELINES FOR WORKING AROUND GAS UTILITIES", DOCUMENT ATTACHED.
2. DEPTH OF GAS FACILITIES ARE UNKNOWN AND COULD BE SHALLOW, USE CAUTION WHEN WORKING IN THE VICINITY OF ANY GAS FACILITY, HAND DIGGING ONLY.
3. RI ENERGY REQUIRES A MINIMUM OF ONE FOOT OF SEPARATION BETWEEN CROSSING UTILITIES AND EXISTING GAS FACILITIES.
4. RI ENERGY REQUIRES A MINIMUM OF THREE FEET OF SEPARATION BETWEEN THE GAS MAIN AND THE PARALLEL FACILITY FOR STEEL AND PLASTIC GAS MAINS. FOR CAST IRON GAS MAIN SEE LINE ITEM FOR ENCRoACHMENT GUIDELINES.
5. AT A PROPOSED UTILITY AND CRITICAL GAS MAIN CROSSING, A RI ENERGY GAS DAMAGE PREVENTION INSPECTOR MUST BE ON SITE WHEN CROSSING. CALL ED SOUZA AT 401-283-9159 OR JEFF CASSEL AT 508-468-7217.
6. IF A GAS MAIN IS EXPOSED OR GOING TO BE EXPOSED CALL RI ENERGY DISPATCH AT 877-304-1203 FOR AN INSPECTOR TO BE DISPATCHED TO THE SITE TO INSPECT THE LINE BEFORE BACKFILL.
7. IF A GAS MAIN OR GAS MAIN COATING IS DAMAGED CALL RI ENERGY DISPATCH OFFICE AT 877-304-1203 FOR A INSPECTOR TO BE DISPATCHED TO THE SITE FOR REPAIR BEFORE BACKFILL.
8. FOR ANY EXPOSED GAS FACILITY, PROVIDE BACKFILL MATERIALS AND COMPACT THE BACKFILL MATERIALS IN ACCORDANCE WITH RI ENERGY'S "GUIDELINES FOR BACKFILL AND COMPACTION AROUND GAS PIPES", DOCUMENT ATTACHED.
9. WHEN CROSSING OR EXPOSING A STEEL OR PLASTIC GAS FACILITY SUPPORT MAY BE REQUIRED. FOLLOW THE GUIDELINES LISTED AND ILLUSTRATED IN RI ENERGY'S "SUPPORT REQUIREMENTS FOR EXPOSED & UNDERMINED STEEL OR PLASTIC GAS FACILITIES", DOCUMENT (DWG NO. CNST 6045) ATTACHED.
10. ALL GAS VALVE BOXES SHALL BE ADJUSTED TO THE NEW ROAD/SIDEWALK SURFACE. VALVE BOXES, IF REQUIRED FOR REPLACEMENT, CAN BE OBTAINED AT RHODE ISLAND ENERGY'S PROVIDENCE LOCATION, 477 DEXTER STREET, PROVIDENCE, RI OR LINCOLN LOCATION, 642 GEORGE WASHINGTON HIGHWAY (QUANTITIES 5 OR LESS). GAS VALVE BOXES NEED TO BE ACCESSIBLE AT ALL TIMES TO BE OPERATED BY RI ENERGY IN THE EVENT OF AN EMERGENCY.
11. ALL CATHODIC PROTECTION BOXES (BOXES THAT CONTAIN WIRES THAT GO DOWN TO THE GAS MAIN) SHALL BE ADJUSTED TO THE NEW ROAD/SIDEWALK SURFACE.
12. CARE SHALL BE EXERCISED WHEN ADJUSTING SO AS NOT TO DAMAGE THE WIRES. IF THE WIRES ARE DAMAGED OR IF ASSISTANCE IS NEEDED, CONTACT RI ENERGY CORROSION ENGINEER TO VISIT THE SITE. CONTACT RICK LEPAPE 508-948-8432-NEW BOXES, IF REQUIRED, CAN BE OBTAINED AT RI ENERGY'S PROVIDENCE FACILITY, 477 DEXTER STREET, PROVIDENCE, RI OR RI ENERGY'S LINCOLN FACILITY, 642 GEORGE WASHINGTON HIGHWAY, LINCOLN, RI (QUANTITIES 5 OR LESS). CONTRACTOR SHALL FOLLOW THE GUIDELINES LISTED IN RI ENERGY'S "GUIDELINES FOR WORKING AROUND CORROSION CONTROL SYSTEM COMPONENTS", DOCUMENT ATTACHED.
13. DUE TO SYSTEM RELIABILITY AND PUBLIC SAFETY CONCERNS, IT IS RI ENERGY'S PRACTICE TO RESTRICT ALL CONSTRUCTION WORK ON OR NEAR GAS FACILITIES BETWEEN NOVEMBER 15TH AND APRIL 15TH. ALL SCHEDULED WORK SHOULD BE COMPLETED BETWEEN NOVEMBER 15TH AND APRIL 15TH AND NOVEMBER 15TH AND NOVEMBER 15TH. AS GAS USAGE PEAK DURING THE MONTHS OF DECEMBER TO MARCH DRIVEN BY HEATING NEEDS, RI ENERGY'S PRIORITY IS TO PROVIDE OUR CUSTOMERS WITH SAFE AND RELIABLE GAS SERVICE. ANY WORK ON OR NEAR THE GAS FACILITY WILL EXPOSE OUR CUSTOMERS TO UNNECESSARY RISK. EXCEPTIONS WILL BE CONSIDERED ON A CASE BY CASE BASIS. APPROVALS FROM GAS CONTROL, OPERATIONAL ENGINEERING, AND PROJECT ENGINEERING WILL BE REQUIRED FOR THESE CASES.
14. FOR A GAS LEAK CALL 800-640-1595.
15. FOR A DAMAGED GAS FACILITY CALL 800-870-1664.
16. RI ENERGY WILL PURGE OUR OLD GAS MAIN OF GAS, WIPE TEST SAMPLE THE INSIDE OF THE PIPE, CAP THE ENDS AND ABANDON IN PLACE. PIPE FOUR INCHES AND LESS IN DIAMETER CAN'T BE SAMPLED; THIS PIPE WILL BE ASSUMED TO BE CONTAMINATED. IF THE WIPE TEST RESULTS SHOW PCB CONTAMINATION AND A SECTION OR SECTIONS NEED TO BE REMOVED BY THE CONTRACTOR THEN THE CONTRACTOR WILL NEED TO TRANSPORT THE REMOVED SECTIONS WITH SEALED ENDS TO EITHER OUR ALLENS AVE FACILITY AT 642 ALLENS AVE IN PROVIDENCE OR OUR DEXTER ST FACILITY AT 477 DEXTER ST IN PROVIDENCE OR OUR LINCOLN FACILITY AT 642 GEORGE WASHINGTON HGWY IN LINCOLN AND PLACE THEM IN OUR RED OPEN TOP "PIPE TO BE CLEANED" CONTAINER ONSITE. RI ENERGY WOULD THEN HANDLE THE CLEANING AND PROPER DISPOSAL. RI ENERGY ALSO REQUIRES THAT THE OPEN PIPE ENDS OF THE ABANDONED PIPE REMAINING IN THE GROUND BE CAPPED OR SEALED WITH EXPANDINGFOAM. IF THE WIPE TEST SHOWS THAT THE PIPE HAS NO PCB CONTAMINATION THEN REMOVED SECTIONS CAN JUST BE DISPOSED OF BY THE CONTRACTOR AS SCRAP METAL.

CAST IRON INVOLVEMENT

- 17. IF EXCAVATING PARALLEL TO OR CROSSING A CAST IRON GAS FACILITY THEN ENCRoACHMENT OF THE CAST IRON LINE IS A POSSIBILITY AND A CONCERN WHERE REPLACEMENT MAY BE REQUIRED. WHENEVER AN EXCAVATION IS IN THE VICINITY OF A CAST IRON GAS MAIN CONTACT RI ENERGY ENCRoACHMENT ENGINEER TO BE ON SITE, CALLED SOUZAAT 401-283-9159 OR JEFF CASSEL AT 508-468-7217. GUIDELINES IN AVOIDING AN ENCRoACHMENT ARE LISTED IN RI ENERGY'S "CAST IRON GAS MAIN ENCRoACHMENT PREVENTION", DOCUMENT ATTACHED.
18. IF EXCAVATING PARALLEL TO OR CROSSING A CAST IRON FACILITY THAT IS GREATER THAN 8", THIS LINE IS NOT COVERED UNDER THE ENCRoACHMENT GUIDELINES AND LAW. RI ENERGY DOES NOT ALLOW MORE THAN 10' OF GAS MAIN TO BE EXPOSED AND ONLY ALLOWS (1) BELL & SPIGOT JOINT TO BE EXPOSED. IF A BELL & SPIGOT JOINT IS EXPOSED SAID JOINT MUST BE LEAK CLAMPED BEFORE ANY BACKFILL LINES A CLAMP IS ALREADY IN PLACE. PROVIDE BACKFILL MATERIALS AND COMPACT THE BACKFILL MATERIALS IN ACCORDANCE WITH RI ENERGY'S "GUIDELINES FOR BACKFILL AND COMPACTION AROUND GAS PIPES", DOCUMENT ATTACHED. MINIMUM 95% COMPACTION OF THE SOIL BELOW A CAST IRON IS ALWAYS REQUIRED. ALWAYS CALL RI ENERGY DAMAGE PREVENTION DEPARTMENT FOR AN INSPECTOR TO BE DISPATCHED TO SITE. CALL ED SOUZA AT 401-283-9159 OR JEFF CASSEL AT 508-468-7217

REGULATOR STATION

- 19. RI ENERGY REQUIRES NOTIFICATION OF CONSTRUCTION WORK WITHIN 200 FT OF A GAS REGULATOR STATION FOR SAFETY MONITORING DURING CONSTRUCTION.
20. PLEASE CALL RI ENERGY I&R SUPERVISOR MIKE ROMANO AT 617-910-7854 OR GEORGE MAERKLE AT 401-595-8276 OR JAY COSTA AT 781-290-3515 WHEN DIGGING WITHIN 200 FT OF REGULATOR STATION. AFTER HOURS, PLEASE CALL 877-304-1209.

CONDUIT INSTALLS

- 21. RHODE ISLAND ENERGY REQUIRES A ONE-FOOT SEPARATION BETWEEN PROPOSED CONDUIT AND ANY GAS FACILITY. T. RHODE ISLAND ENERGY DOES NOT ALLOW THE USE OF GRINDING WHEEL TYPE TRENCHERS OVER ANY GAS FACILITY, HAND DIGGING ONLY IN THESE AREAS.
22. IF IT IS NECESSARY TO GO UNDER OUR FACILITY AND OUR FACILITY IS 4", 6" OR 8" CAST IRON, THEN ENCRoACHMENT BECOMES AN ISSUE. IN ORDER TO AVOID AN ENCRoACHMENT AND AVOID THE MAIN SECTION BEING REPLACE KEEP THE TRENCH WIDTH FOR 4" CAST IRON TO LESS THAN 3" WIDE AND FOR 6" CAST IRON TO LESS THAN 4" WIDE AND FOR 8" CAST IRON TO LESS THAN 5" WIDE. 95% COMPACTION OF THE SOIL BELOW A CAST IRON IS ALWAYS REQUIRED AND PROPER BACKFILL IN ACCORDANCE WITH OUR BACKFILL AND COMPACTION AROUND GAS MAINS DOCUMENT. IF AN ENCRoACHMENT IS SUSPECTED PLEASE CALL ED SOUZA AT 401-283-9159 OR JEFF CASSEL AT 508-468-7217.

UTILITY EXCAVATION AND BACKFILL:

- 1. BACKFILL MATERIALS SHALL BE PLACED IN LAYERS NOT EXCEEDING 6 INCHES THICKNESS MEASURED PRIOR TO COMPACTION, UNLESS OTHERWISE INDICATED OR SPECIFIED, EACH LAYER SHALL BE COMPACTED TO 95% MAXIMUM RELATIVE DENSITY (MRD) IN ACCORDANCE WITH ASTM D1557. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SIEVE AND PROCTOR ANALYSIS FOR NEW AND IN-SITU MATERIAL.
2. BACKFILL WITH THE MATERIALS AND TO THE LIMITS INDICATED ON THE DRAWINGS.
3. BACKFILL MATERIALS AROUND THE PIPE SHALL BE COMPACTED TO A MINIMUM OF 90% MRD.
4. AS THE EXCAVATION APPROACHES PIPES, CONDUITS, OR OTHER UNDERGROUND STRUCTURES, DIGGING BY MACHINERY SHALL BE DISCONTINUED AND THE EXCAVATION SHALL BE DONE BY MEANS OF HAND TOOLS. SUCH MANUAL EXCAVATION WHEN INCIDENTAL TO NORMAL EXCAVATION SHALL BE INCLUDED IN THE WORK TO BE DONE UNDER ITEMS INVOLVING NORMAL EXCAVATION. DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. IF THE BOTTOM OF ANY EXCAVATION IS TAKEN OUT BEYOND THE LIMITS INDICATED OR PRESCRIBED, THE RESULTING VOID SHALL BE BACKFILLED AT THE CONTRACTOR'S EXPENSE WITH THOROUGHLY COMPACTED 3/4" CRUSHED STONE.
6. IF MATERIAL UNSUITABLE FOR FOUNDATION AND/OR BACKFILLING (IN THE OPINION OF THE ENGINEER) IS FOUND AT OR BELOW THE GRADE TO WHICH EXCAVATION WOULD NORMALLY BE CARRIED IN ACCORDANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL REMOVE SUCH MATERIAL TO THE REQUIRED WIDTH AND DEPTH AND REPLACE IT WITH THOROUGHLY COMPACTED CRUSHED STONE, GRAVEL BORROW, FINE AGGREGATE OR CONCRETE AS DIRECTED.
7. EXCAVATE TRENCH TO DEPTHS PERMITTING THE PIPE TO BE LAID AT THE ELEVATIONS, SLOPES, OR DEPTHS OF COVER INDICATED ON THE DRAWINGS, AND AT UNIFORM SLOPES BETWEEN INDICATED ELEVATIONS.
8. LENGTH OF TRENCH OPEN AT ANY ONE TIME WILL BE CONTROLLED BY CONDITIONS, SUBJECT TO ANY LIMITS THAT MAY BE PRESCRIBED BY THE ENGINEER.
9. WHENEVER ANY TRENCH OBSTRUCTS PEDESTRIAN AND VEHICULAR TRAFFIC IN OR TO ANY PUBLIC STREET, PRIVATE DRIVEWAY OR PROPERTY ENTRANCE, OR ON PRIVATE PROPERTY, CONTRACTOR SHALL TAKE SUCH MEANS AS MAY BE NECESSARY TO MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC AND ACCESS.
10. STREETS AND PREMISES ARE TO BE KEPT FREE FROM UNNECESSARY OBSTRUCTIONS, DEBRIS AND ALL OTHER MATERIALS.
11. ALL OPEN EXCAVATIONS WILL BE COVERED AT THE END OF EACH DAY BY MEANS OF STEEL PLATES OR SOME OTHER SATISFACTORY COVER OF ADEQUATE SIZE AND STRENGTH SUITABLY HELD IN PLACE TO KEEP ALL TRAFFIC OUT OF EXCAVATIONS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR AND SECURING ANY AND ALL REQUIRED PERMITS FROM THIRD-PARTY UTILITY PROVIDERS (INCLUDING BUT NOT LIMITED TO SANITARY SEWER, WATER, GAS, TELEPHONE, OR ELECTRIC), AND SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED THEREWITH. WORK ON AND AROUND OTHER UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH ANY AND ALL APPLICABLE REQUIREMENTS OF THE PERMITS ISSUED BY THE UTILITY PROVIDERS.

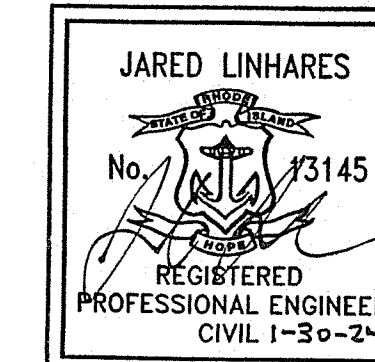
MAINTENANCE AND PROTECTION OF TRAFFIC:

- 1. TYPICALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE AND SPECIFIC MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL MEASURES FOR EACH PROJECT AREA, AS WELL AS FOR ADJUSTING SAME AS CONDITIONS AND OPERATIONS CHANGE.
2. THE TOWN OR ITS DESIGNATED AGENT SHALL RESERVE THE RIGHT TO INSTRUCT THE CONTRACTOR TO SUPPLEMENT OR MODIFY ITS TRAFFIC CONTROL MEASURES IF THE MEASURES ARE DEEMED TO BE INADEQUATE OR INAPPROPRIATE TO THE PROJECT AREA OR WORK CONDITIONS. THIS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF ITS SOLE RESPONSIBILITY FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGH ITS PROJECT AREAS.
3. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
4. ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
5. THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE WORK.
6. THE USE OF FLAGPERSONS OR UNIFORMED TRAFFIC CONTROL SHALL BE COORDINATED BY THE CONTRACTOR. FLAGPERSONS SHALL BE PROPERLY TRAINED PERSONNEL WITH EXPERIENCE IN TRAFFIC CONTROL, AND SHALL BE EQUIPPED WITH ALL NECESSARY AND APPROPRIATE EQUIPMENT AND DEVICES IN ACCORDANCE WITH THE MUTCD TO PERFORM THAT TASK.
7. ADVANCE FLAGPERSON SIGNS (W20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
8. POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
9. TEMPORARY CONSTRUCTION SIGNS AND OTHER WORK ZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."
10. TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
11. THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. WHERE APPLICABLE, TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL MILLED OR NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT.

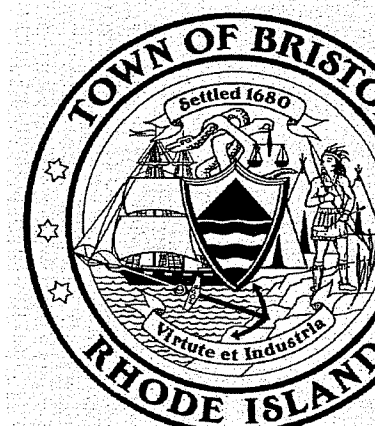
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PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

GENERAL NOTES

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 17 2024 FILE #: 24-0017

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Handwritten signature

Table with columns: NO., REVISIONS, DATE. Includes fields for DRAWN BY: JMC, DESIGNED BY: JML, CHECKED BY: NBI, ISSUE DATE: JAN 2024, BETA JOB NO.: 11056

SCALE: NONE
JAN 30 2024
Office of Water Resources

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SHEET NO.

3

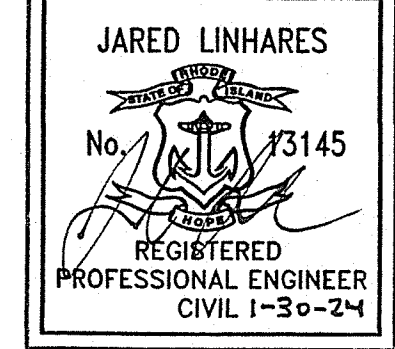
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PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

LOCATION MAP NO. 1

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 17 2024 FILE #: 24-0017
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NO. REVISIONS DATE

DRAWN BY: JMC

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CHECKED BY: NBI

ISSUE DATE: JAN 2024

BETA JOB NO.: 11056 Environmental Management

SCALE: JAN 3 0 2024

200 0 Office of Water Resources

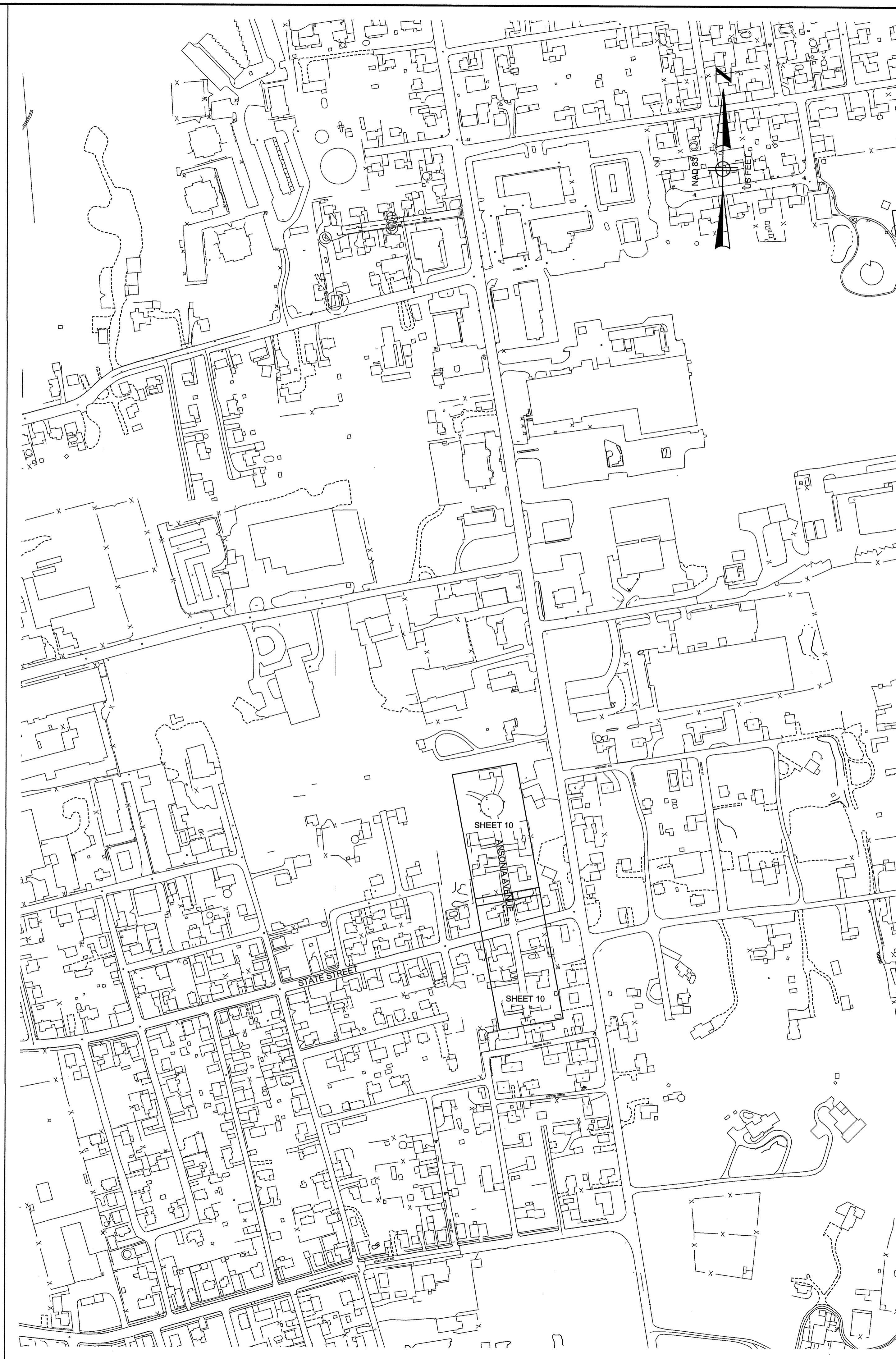
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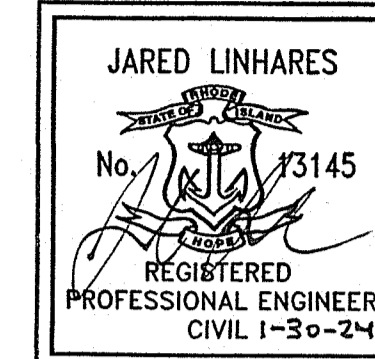
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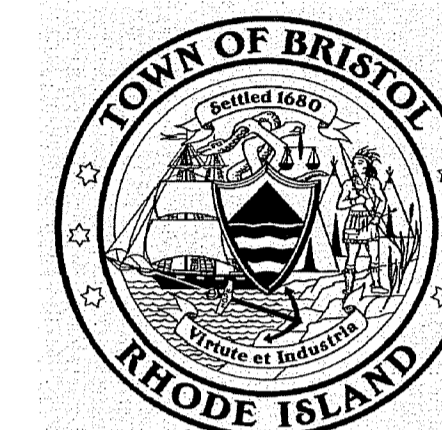
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PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

LOCATION MAP NO. 2

RI DEPARTMENT OF METAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
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ISSUE DATE: JAN 2024

BETA JOB NO.: 11066

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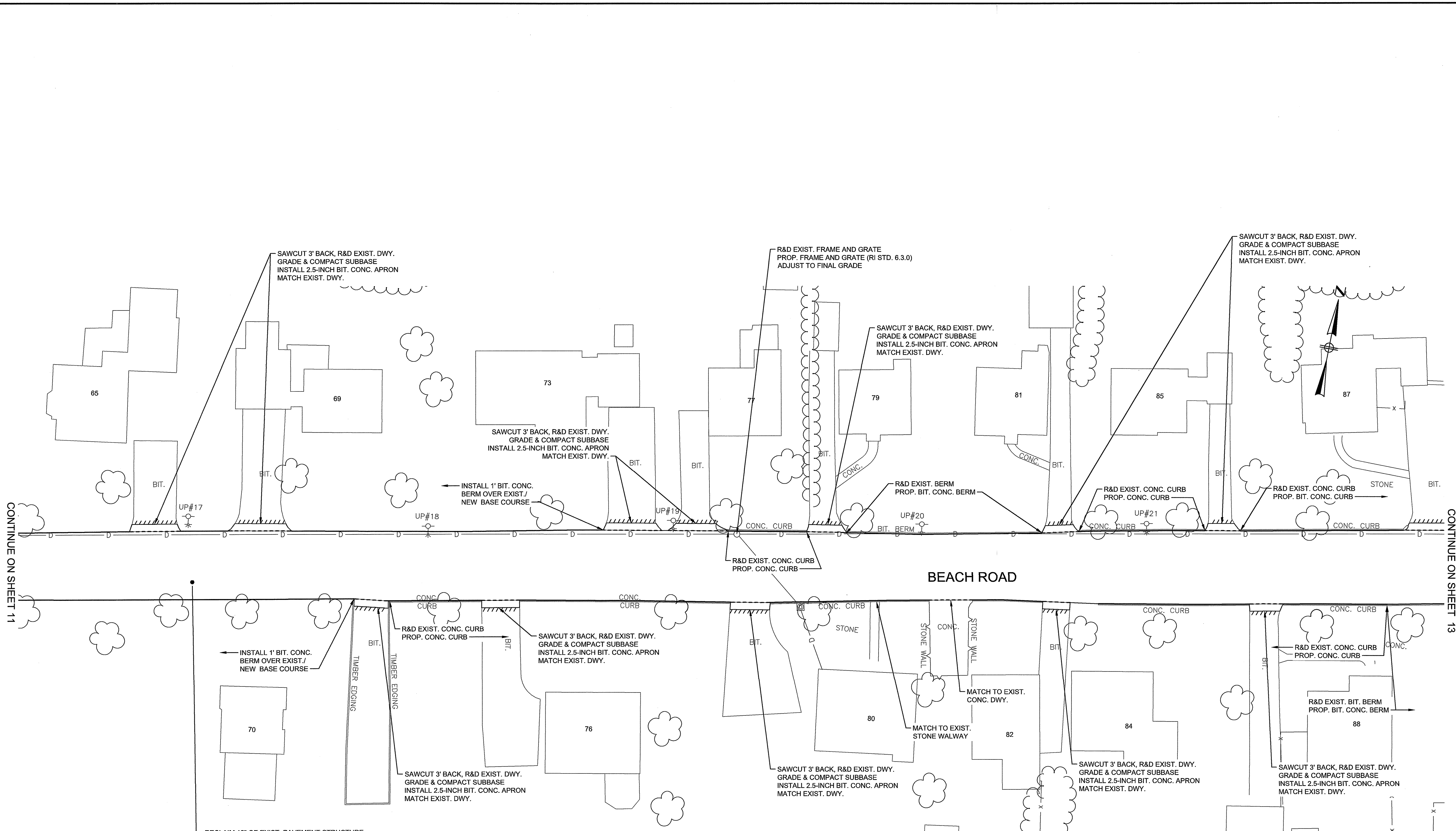
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SHEET NO.

5

1/29/2024 3:05 PM \\BETA-INC.COM\PROJECTS\1100011056 - BRISTOL PAVING FY 2024\DRAWINGFILES\PLANS\SET\2 RIDEM ROADWAYS\11056 - BEACH ROAD.DWG (BETA STB BW STB)



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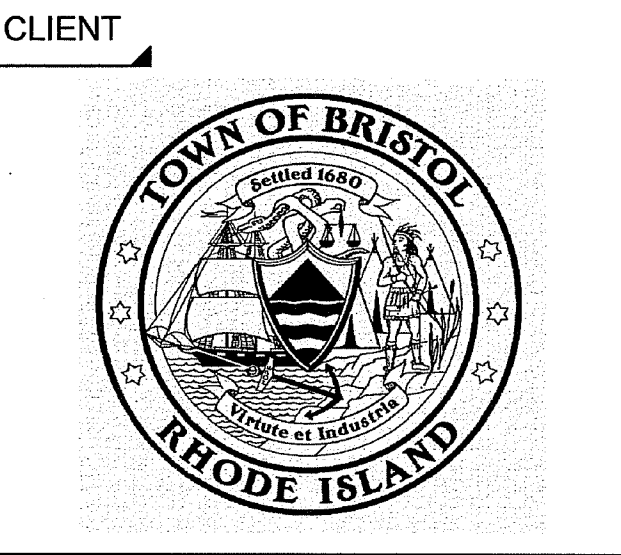
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RECLAIM 12" OF EXIST. PAVEMENT STRUCTURE GRADE AND COMPACT RECLAIMED MATERIAL TO ACCOMMODATE INSTALLATION OF NEW 1.5" SURFACE COURSE OVER 2.5" BASE COURSE REMOVE & DISPOSE EXCESS MATERIAL TO MAINTAIN EXIST. GRADE

SOIL EROSION SEDIMENTATION CONTROL (SESC) MEASURE NOTE
1. ALL CATCH BASINS AND INLET STRUCTURES SHALL BE PROTECTED WITH FABRIC INSERTS AND/OR CURB DEFLECTORS WITHIN THE WORK LIMITS FOR THE DURATION OF WORK OR UNTIL THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED.

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REGISTERED PROFESSIONAL
JARED LINHARES
No. 33145
REGISTERED PROFESSIONAL ENGINEER
CIVIL 1-30-24



PROJECT
2024 ROAD RESURFACING PROJECT
Bristol, RI

TITLE
BEACH ROAD - PLAN NO. 2

NO.	REVISIONS	DATE

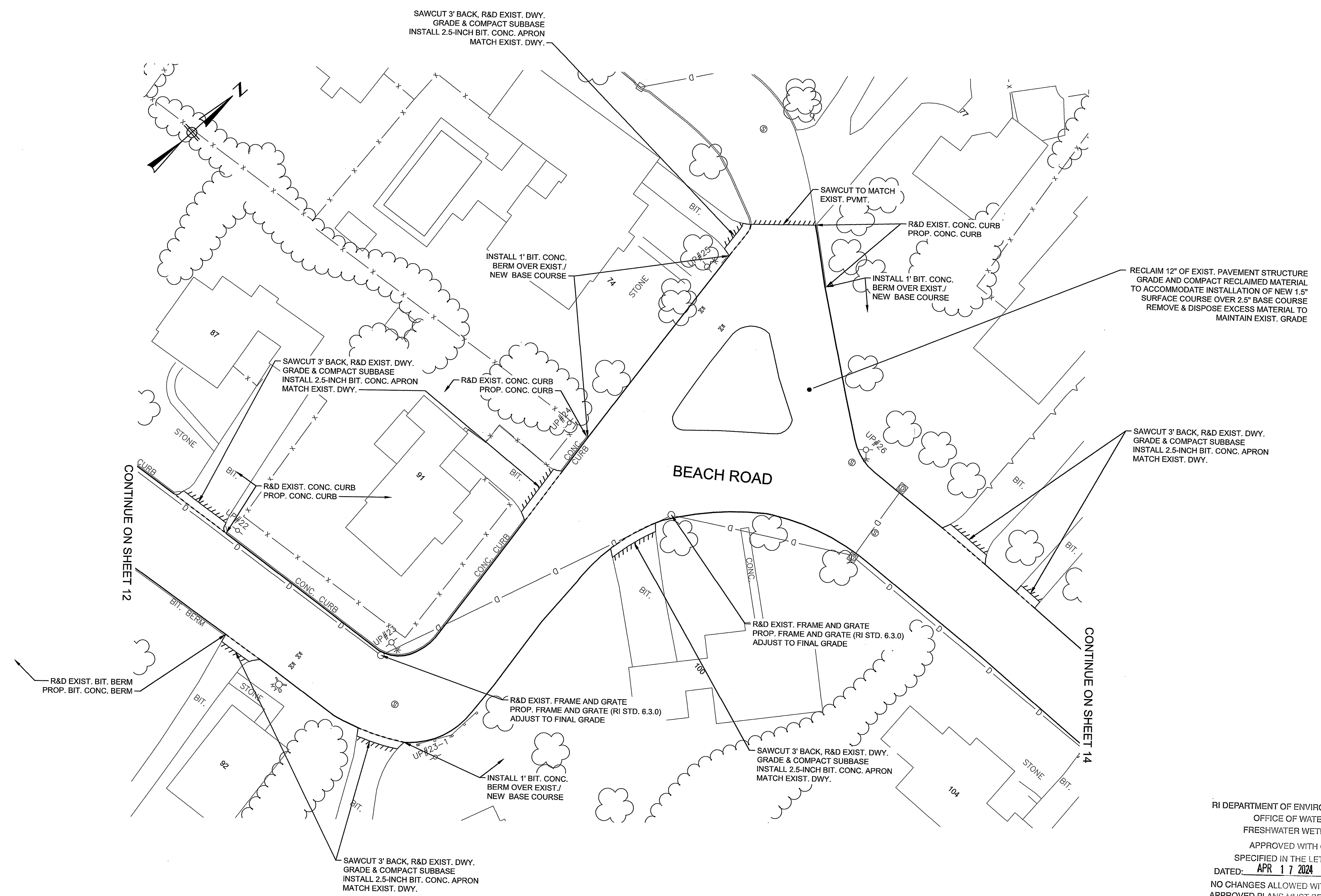
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
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Office of Water Resources 140

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SHEET NO. 12

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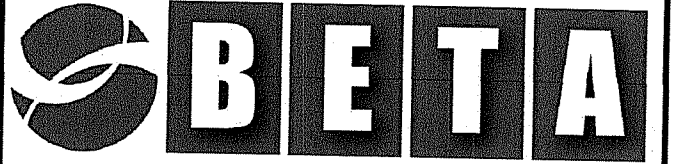
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: APR 17 2024 FILE #: 24-0017
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Andy Clapton

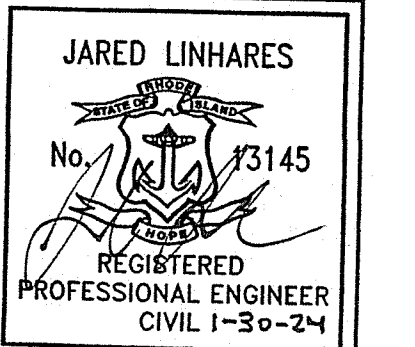
SOIL EROSION SEDIMENTATION CONTROL (SESC) MEASURE NOTE
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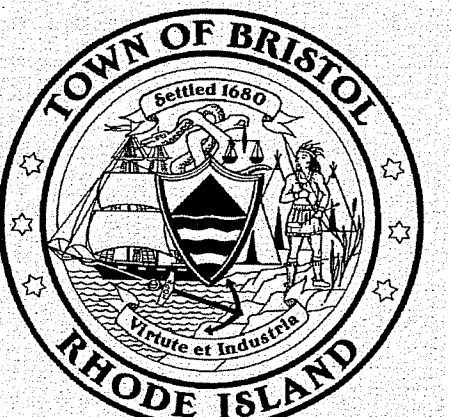


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PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

BEACH ROAD - PLAN NO. 3

NO.	REVISIONS	DATE

DRAWN BY: JMC
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 CHECKED BY: NBI
 ISSUE DATE: JAN 2024
 BETA JOB NO.: 11056 Environmental Management
 SCALE: JAN 30 2024
 SCALE IN FEET: 1"=20'

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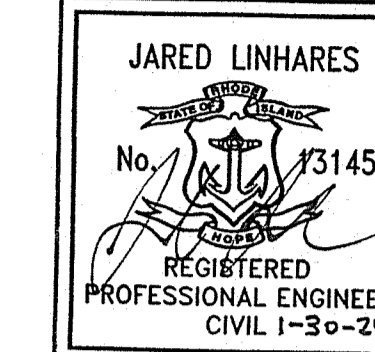
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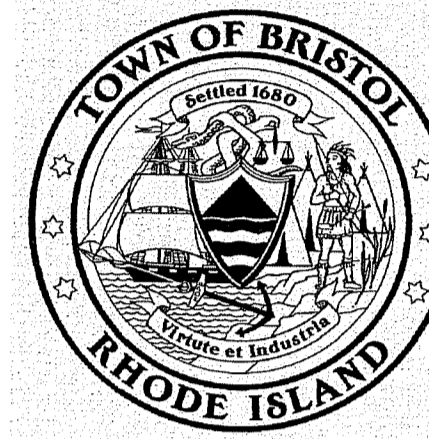
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PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

BEACH ROAD - PLAN NO. 4

NO.	REVISIONS	DATE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
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Andy Clayton

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 CHECKED BY: NBI
 ISSUE DATE: JAN 2024
 BETA JOB NO.: 11056

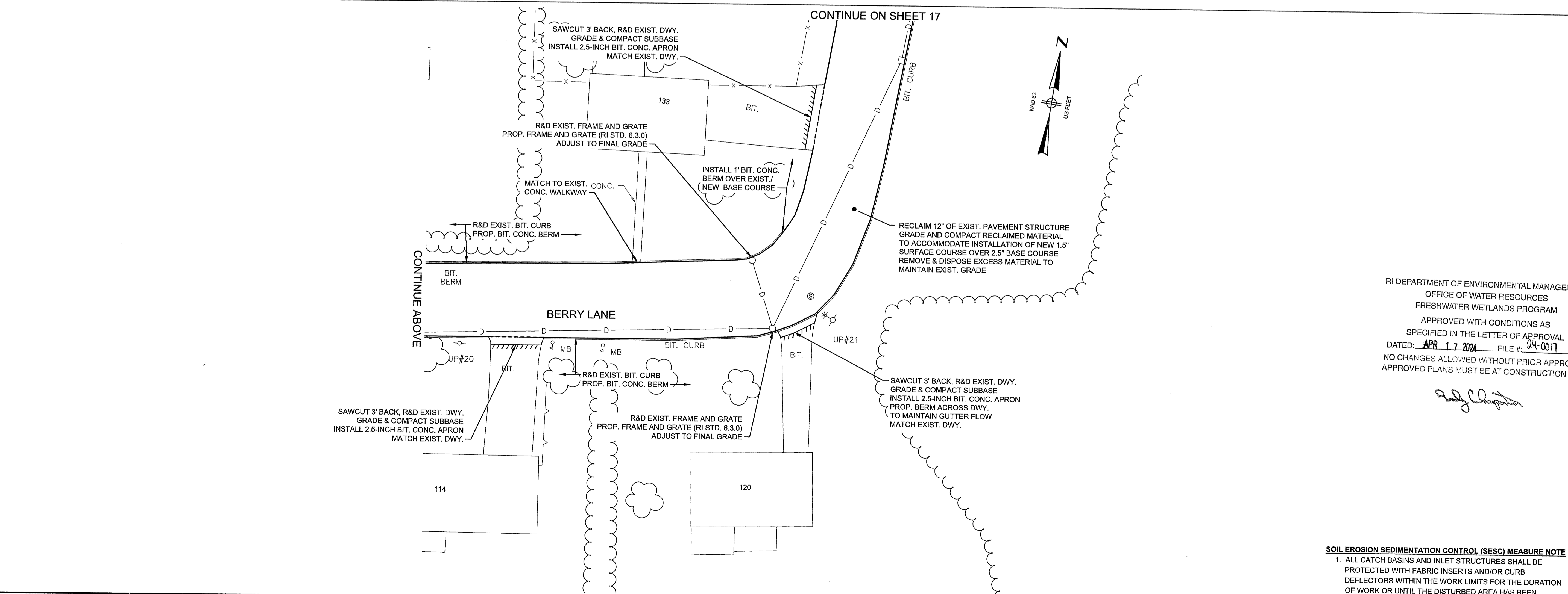
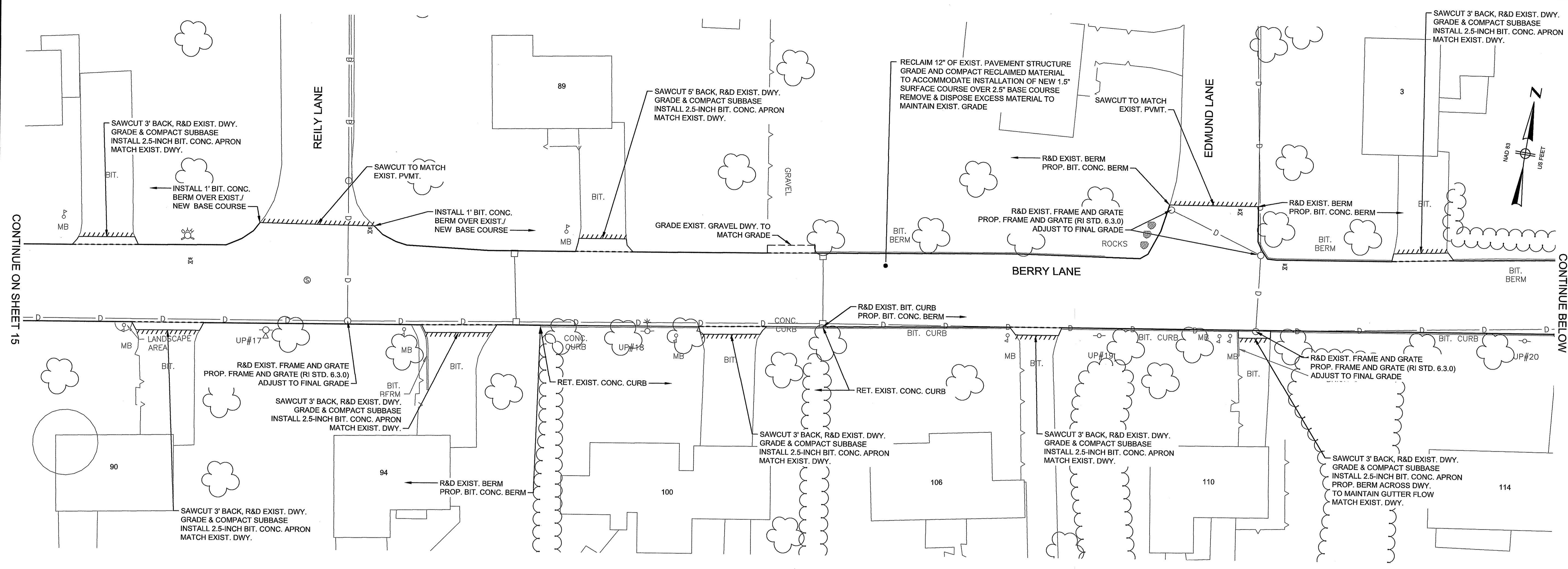
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SOIL EROSION SEDIMENTATION CONTROL (SESC) MEASURE NOTE
 1. ALL CATCH BASINS AND INLET STRUCTURES SHALL BE PROTECTED WITH FABRIC INSERTS AND/OR CURB DEFLECTORS WITHIN THE WORK LIMITS FOR THE DURATION OF WORK OR UNTIL THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED.

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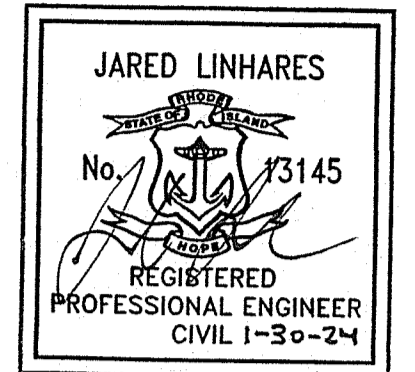



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PROJECT
2024 ROAD RESURFACING PROJECT
 Bristol, RI

TITLE
BERRY LANE - PLAN NO. 2

NO.	REVISIONS	DATE

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 DATED: **APR 17 2024** FILE #: **24-0017**
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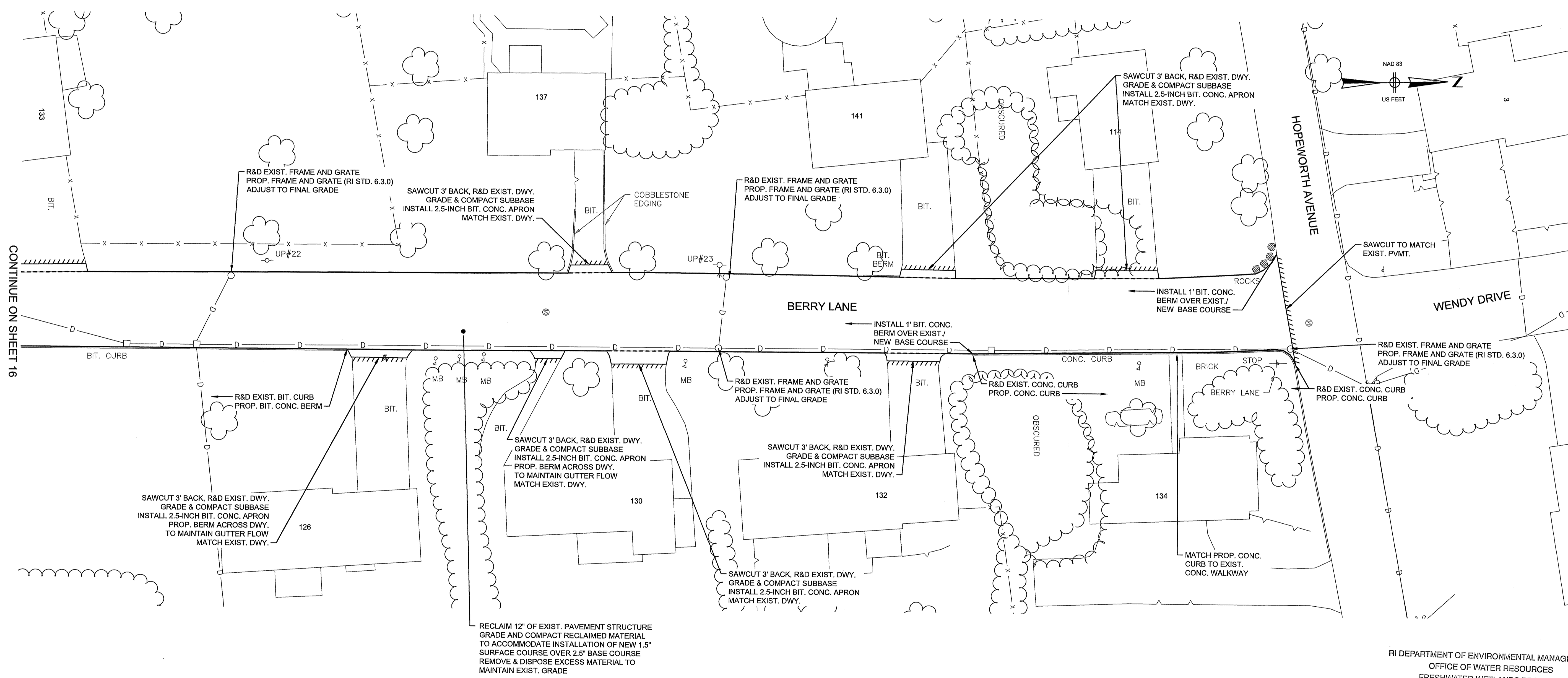
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 CHECKED BY: NBI
 ISSUE DATE: JAN 2024
 BETA JOB NO.: 11056
 SCALE: **JAN 30 2024**

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1/29/2024 3:09 PM \\BETA-INC.COM\ITRANS\1100011056 - BRISTOL - PAVING FY 2024\DRAWINGFILES\PLANSET\VOLUME 2, RIDEM ROADWAY\ST11056 - BERRY LANE.DWG (BETA STB BW.STB)



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JARED LINHARES
No. 13145
REGISTERED PROFESSIONAL ENGINEER
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PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

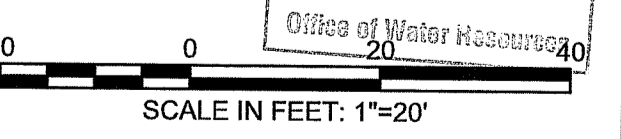
BERRY LANE - PLAN NO. 3

NO.	REVISIONS	DATE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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SCALE



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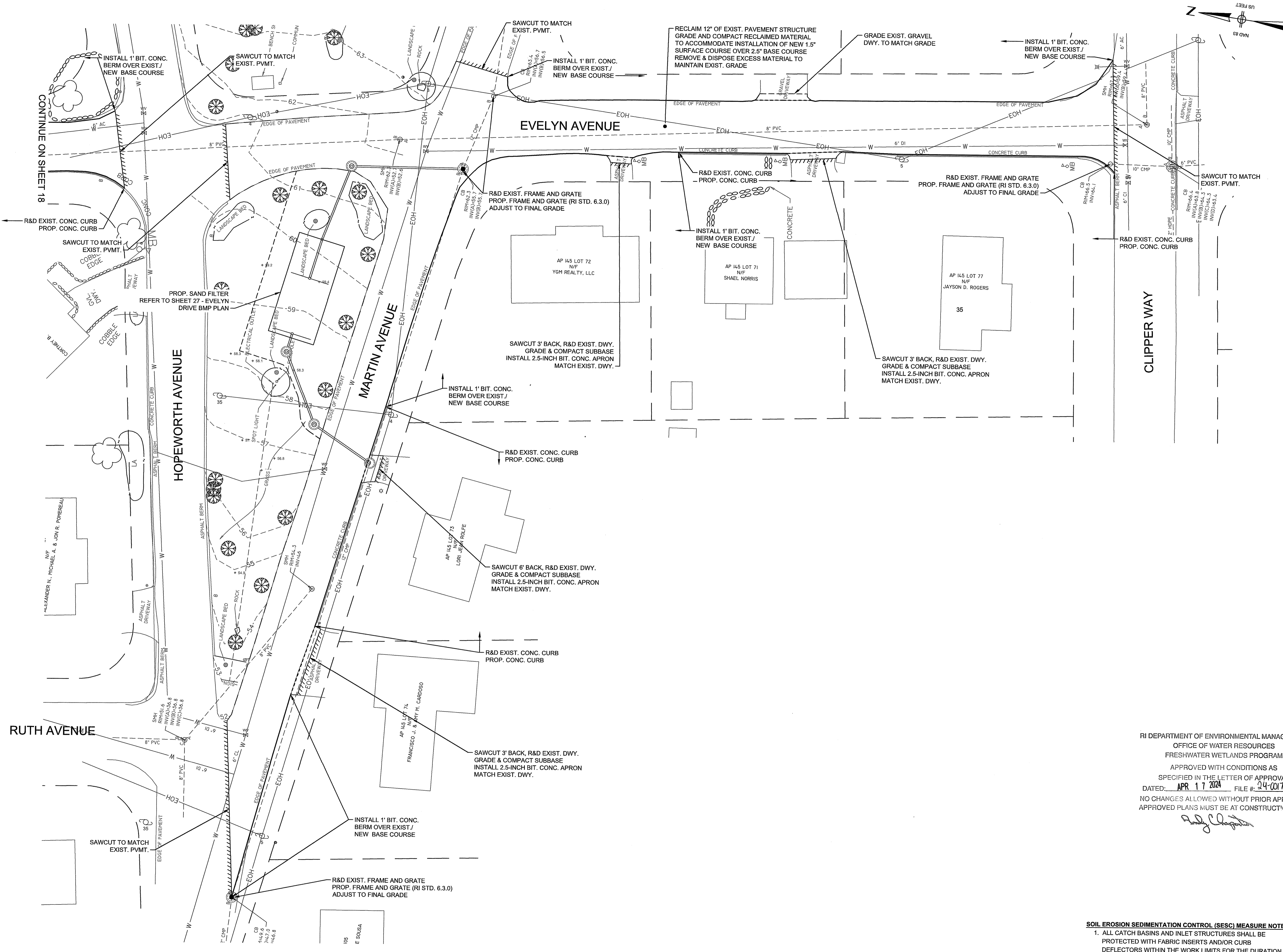
SOIL EROSION SEDIMENTATION CONTROL (SESC) MEASURE NOTE
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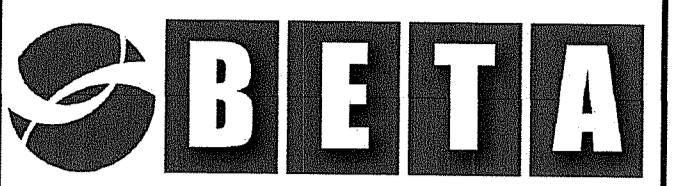
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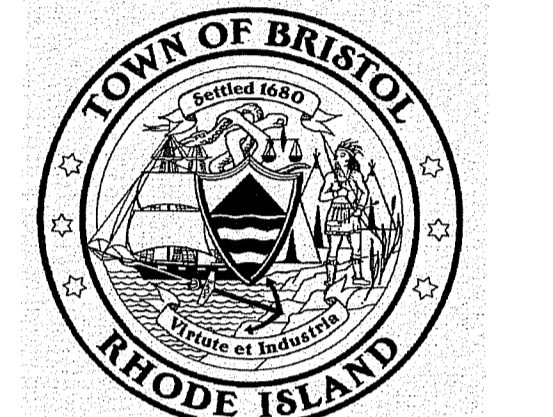


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No. 13145
REGISTERED PROFESSIONAL ENGINEER
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2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

EVELYN AVENUE - PLAN NO. 2

NO.	REVISIONS	DATE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: **APR 17 2024** FILE #: **24-0017**
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Randy Cloutier

ISSUE DATE: JAN 2024

BETA JOB NO.: 11056

SCALE

JAN 30 2024

SCALE IN FEET: 1"=20'

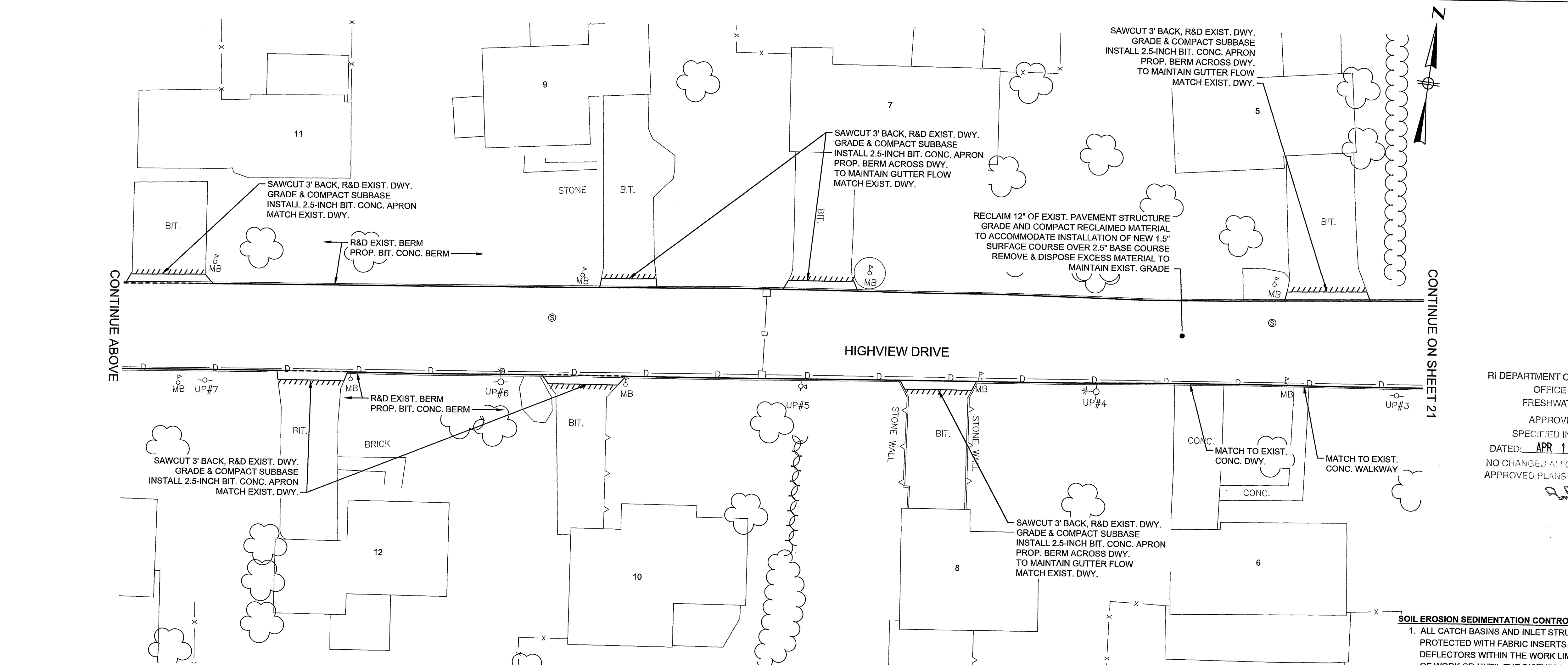
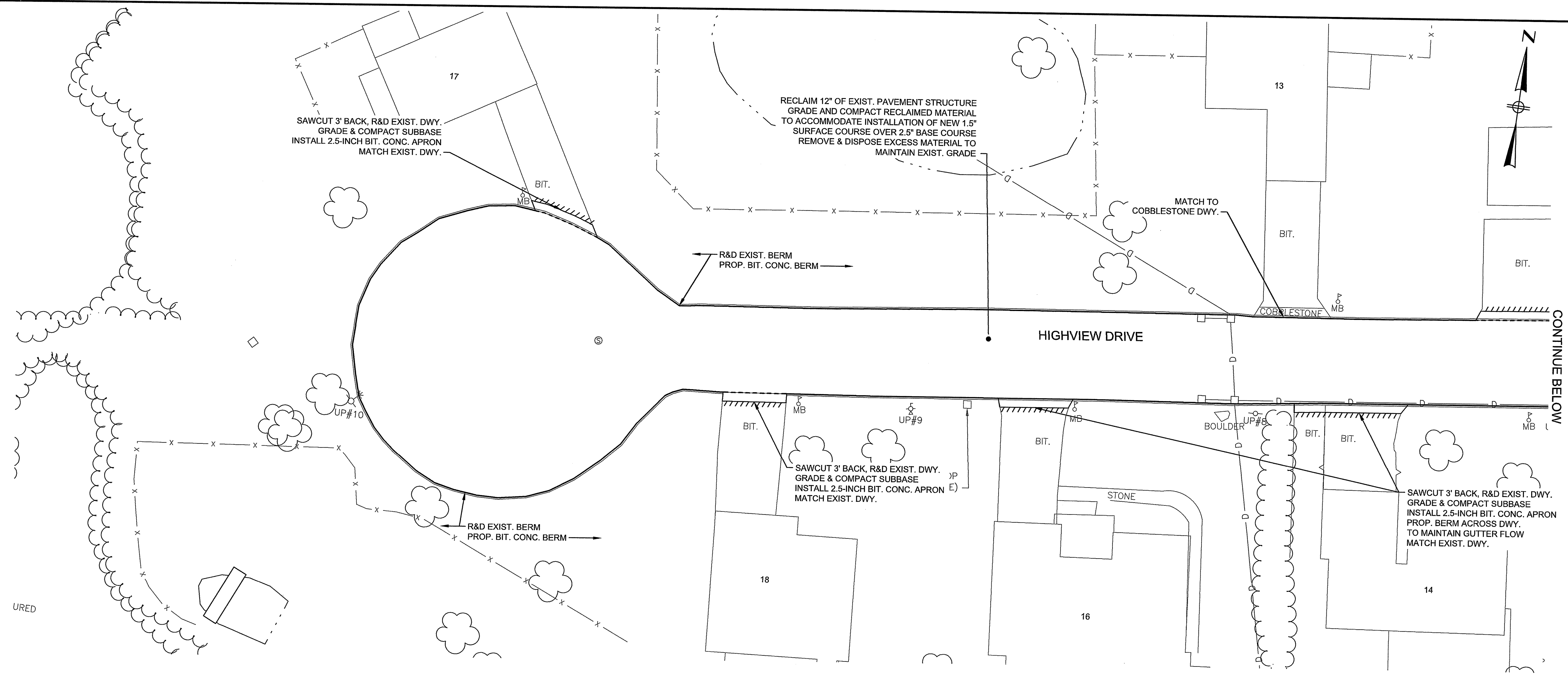
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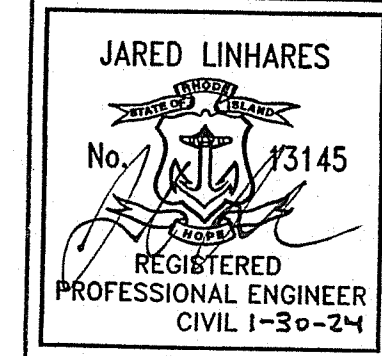
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PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

HIGHVIEW DRIVE - PLAN NO. 1

REVISION NO.	REVISIONS	DATE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: APR 17 2024 FILE # 24-0017
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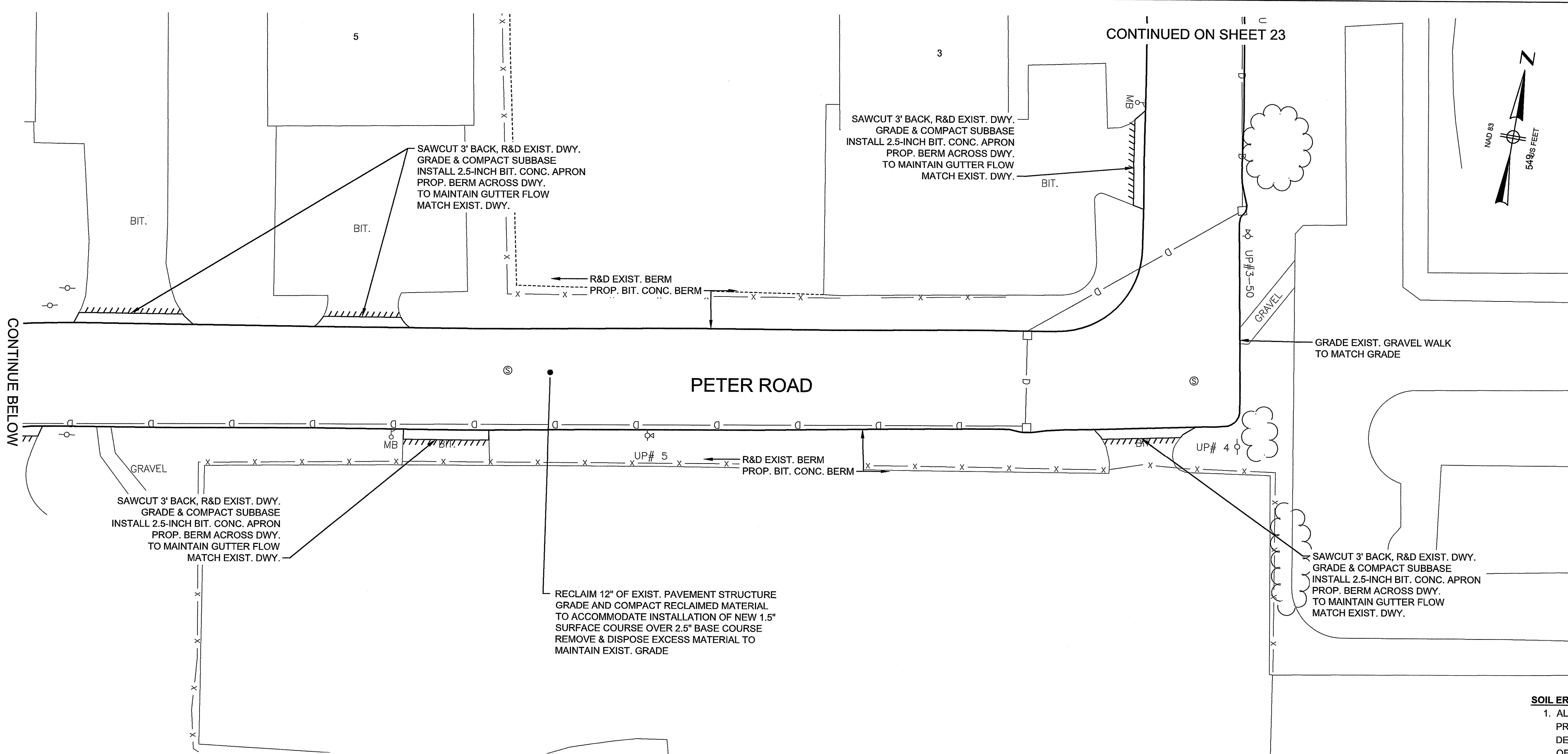
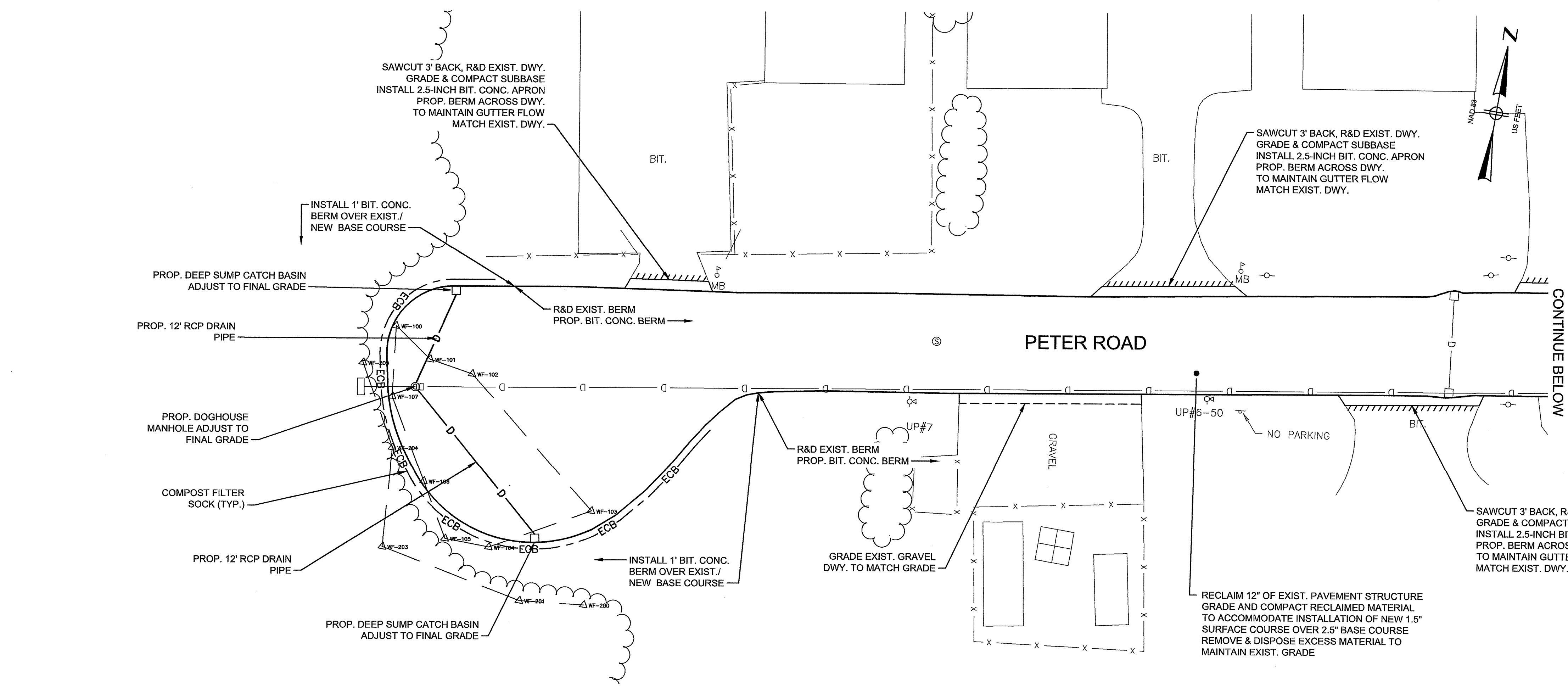
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SOIL EROSION SEDIMENTATION CONTROL (SESC) MEASURE NOTE
 1. ALL CATCH BASINS AND INLET STRUCTURES SHALL BE PROTECTED WITH FABRIC INSERTS AND/OR CURB DEFLECTORS WITHIN THE WORK LIMITS FOR THE DURATION OF WORK OR UNTIL THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED.

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SHEET NO. 20

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 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: APR 17 2024 FILE # 24-017
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 CHECKED BY: NBI
 ISSUE DATE: JAN 2024

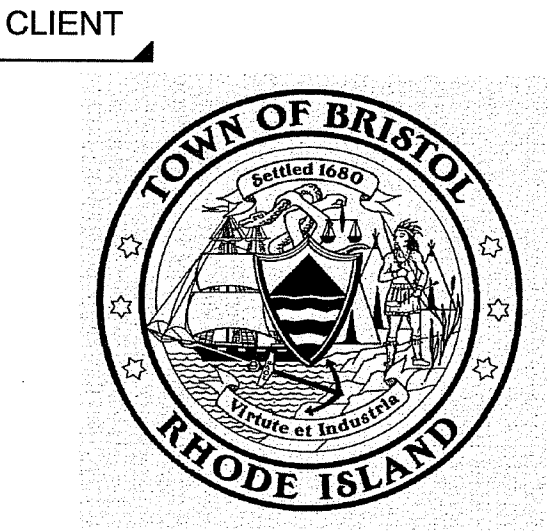
SOIL EROSION SEDIMENTATION CONTROL (SESC) MEASURE NOTE
 1. ALL CATCH BASINS AND INLET STRUCTURES SHALL BE PROTECTED WITH FABRIC INSERTS AND/OR CURB DEFLECTORS WITHIN THE WORK LIMITS FOR THE DURATION OF WORK OR UNTIL THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED.

PREPARED BY

 www.BETA-Inc.com

REGISTERED PROFESSIONAL

 JARED LINHARES
 No. 13145
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL 1-30-24



PROJECT
2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE
PETER ROAD - PLAN NO. 1

NO.	REVISIONS	DATE

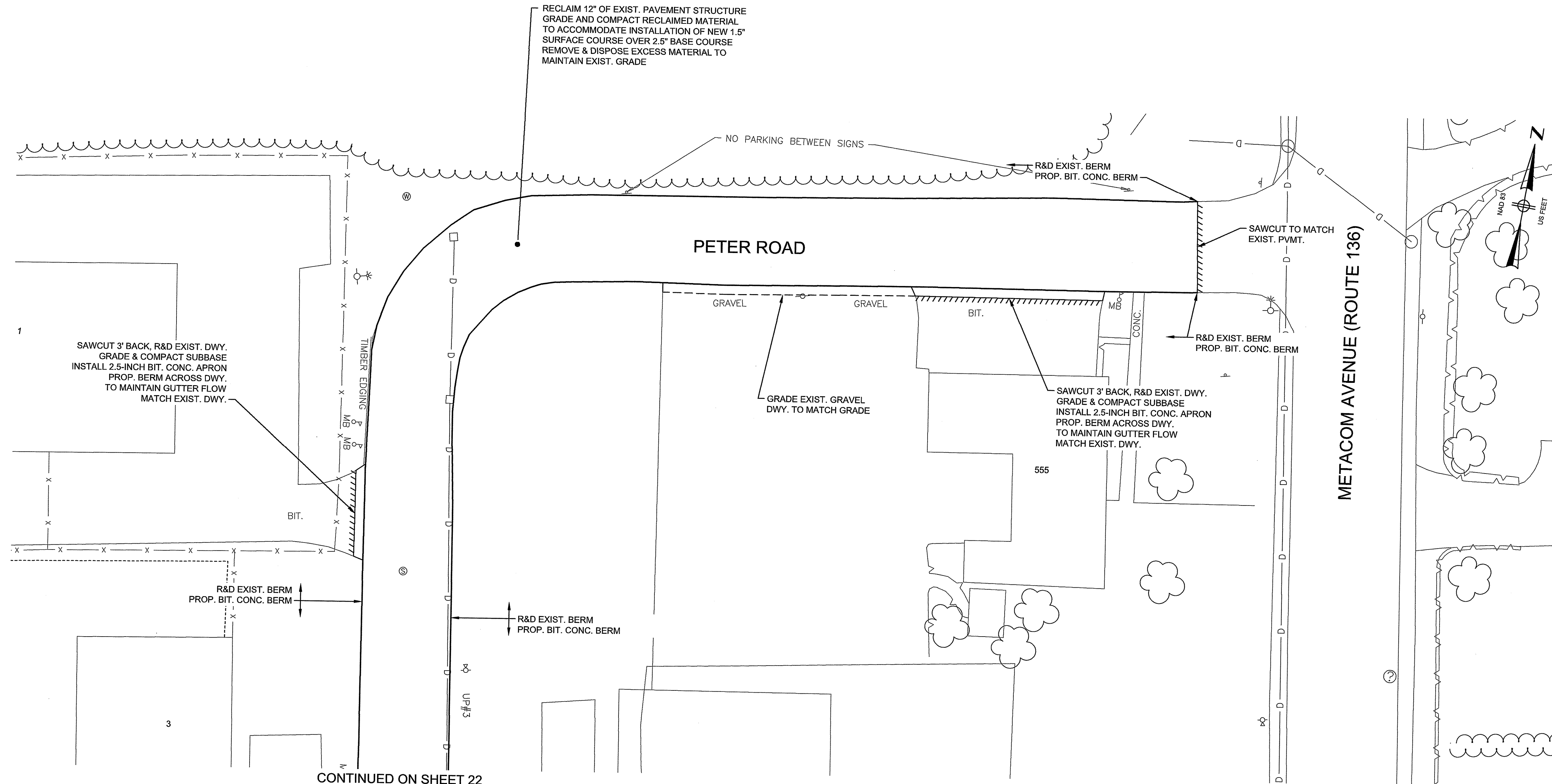
BETA JOB NO.: 11056
 SCALE: 1"=20'
 JAN 30 2024

SCALE IN FEET: 1"=20'

For Review Only

SHEET NO. **22**

1/29/2024 3:18 PM \\BETA-INC.COM\IR\TRANS\1100011056 - BRISTOL PAVING FY 2024\DRAWINGFILES\PLANS\SETVOLUME 2\RIDEM ROAD\WAY\11056 - PETER ROAD.DWG (BETA STB BW.STB)

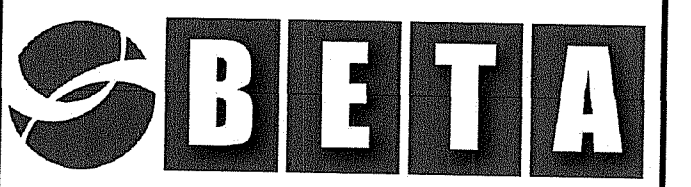


CONTINUED ON SHEET 22

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: APR 17 2024 FILE #: 24-0017
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

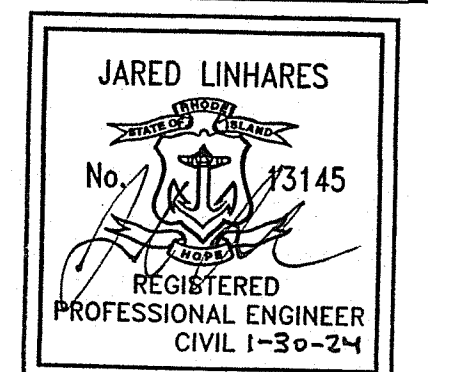
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PREPARED BY

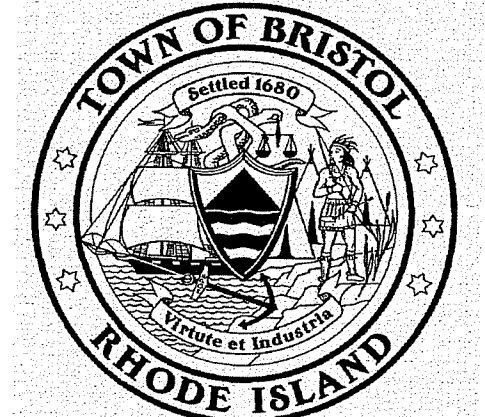


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CLIENT



PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI


TITLE

PETER ROAD - PLAN NO. 2

NO.	REVISIONS	DATE

DRAWN BY: JMC
 DESIGNED BY: JML
 CHECKED BY: NBI
 ISSUE DATE: JAN 2024
 BETA JOB NO.: 11056 *RI Environmental Management*

SCALE



SCALE IN FEET: 1"=20'

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

For Review Only

SHEET NO. **23**

SOIL EROSION SEDIMENTATION CONTROL (SESC) MEASURE NOTE

1. ALL CATCH BASINS AND INLET STRUCTURES SHALL BE PROTECTED WITH FABRIC INSERTS AND/OR CURB DEFLECTORS WITHIN THE WORK LIMITS FOR THE DURATION OF WORK OR UNTIL THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED.

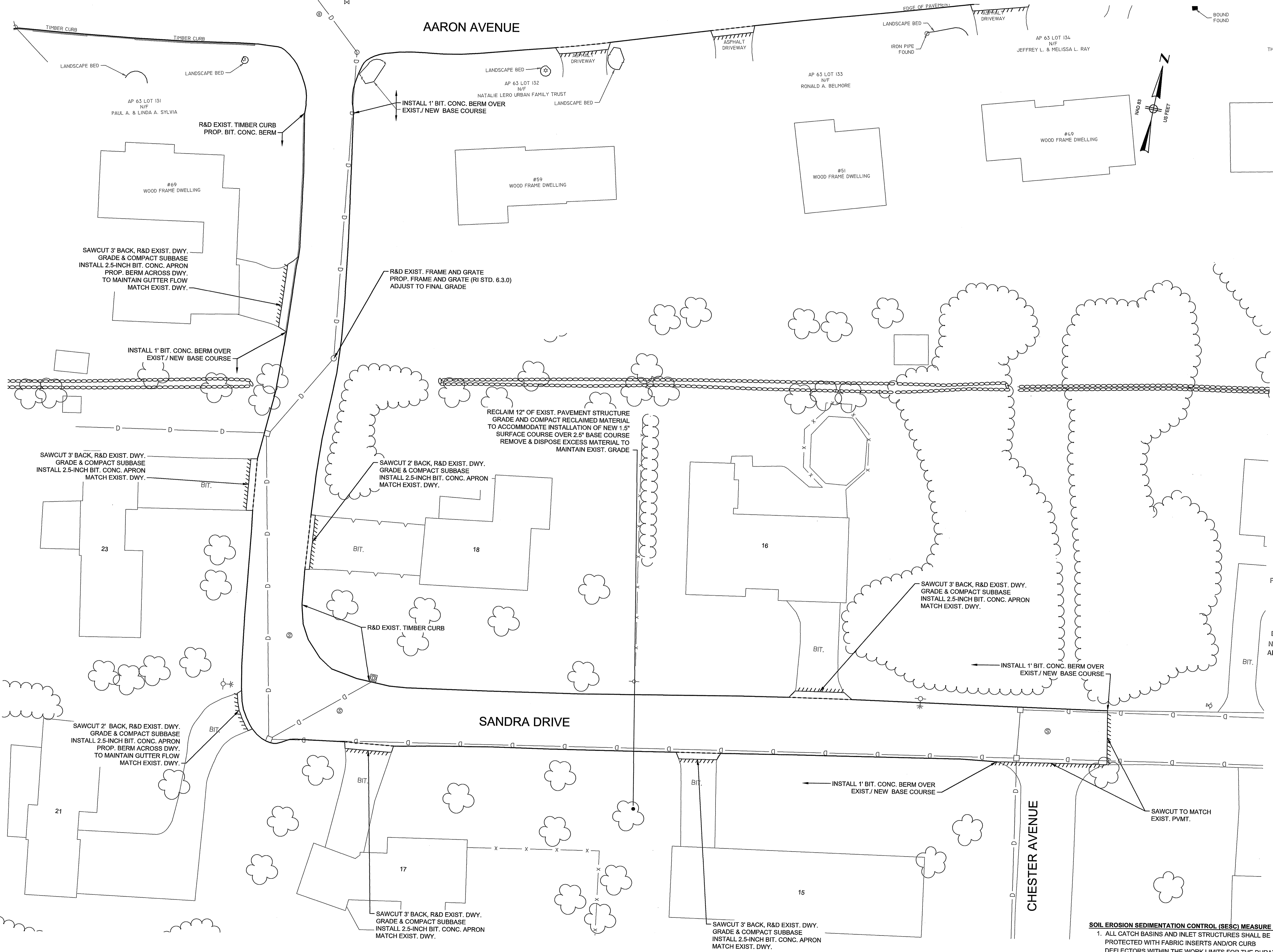
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CONTINUE ON SHEET 7


AARON AVENUE

SANDRA DRIVE

CHESTER AVENUE

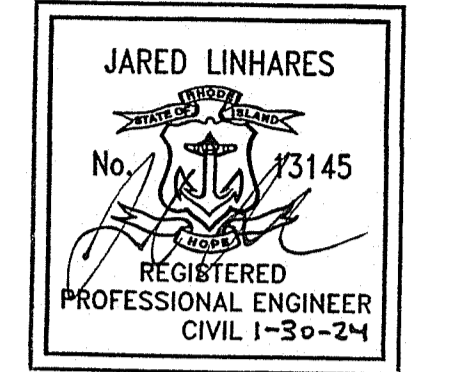


PREPARED BY




www.BETA-Inc.com

REGISTERED PROFESSIONAL



JARED LINHARES
No. 13145
REGISTERED PROFESSIONAL ENGINEER
CIVIL 1-30-24

CLIENT



TOWN OF BRISTOL
RHODE ISLAND

PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

SANDRA DRIVE - PLAN NO. 1

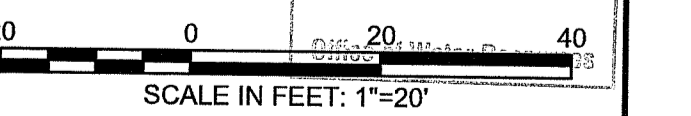
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 17 2024 FILE #: 24-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISIONS	DATE

DRAWN BY:	JMC
DESIGNED BY:	JML
CHECKED BY:	NBI
ISSUE DATE:	JAN 2024
BETA JOB NO.:	11056

SCALE



SCALE IN FEET: 1"=20'

JAN 8 0 2024

SOIL EROSION SEDIMENTATION CONTROL (SESC) MEASURE NOTE

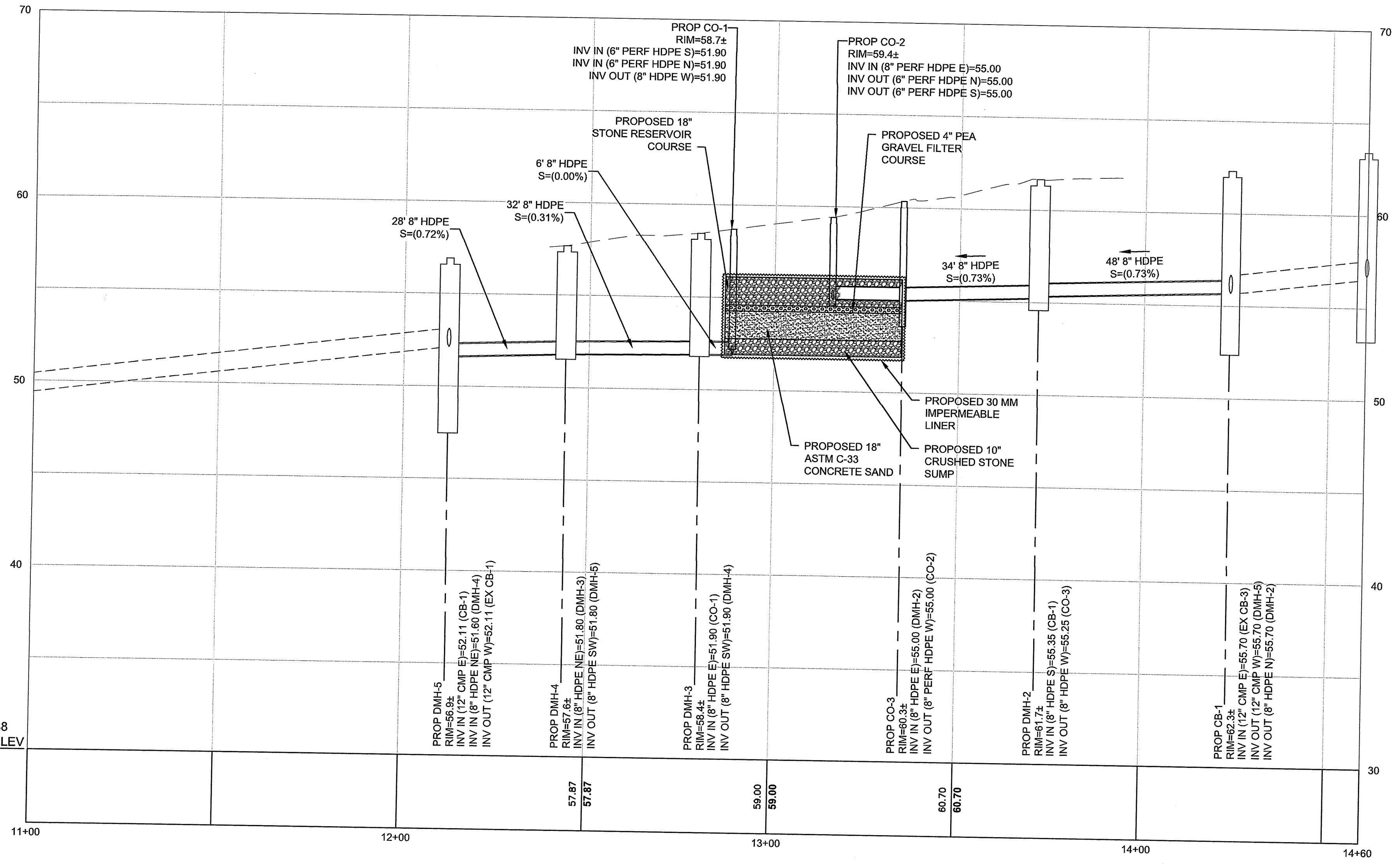
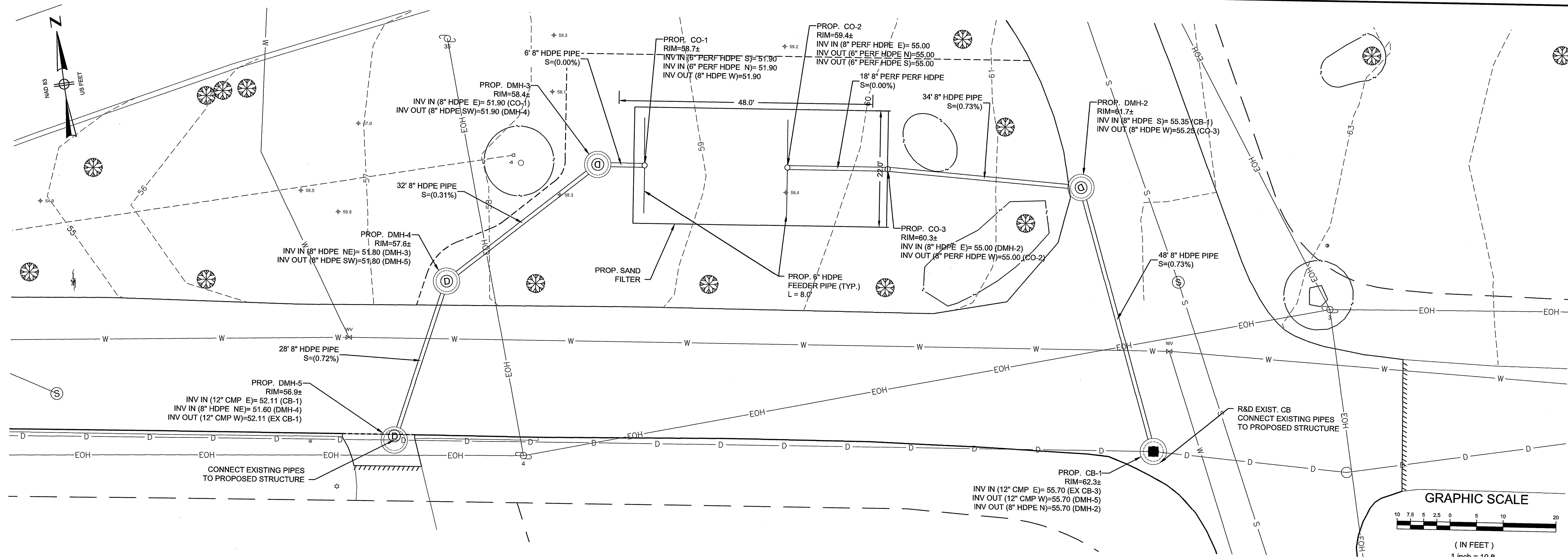
1. ALL CATCH BASINS AND INLET STRUCTURES SHALL BE PROTECTED WITH FABRIC INSERTS AND/OR CURB DEFLECTORS WITHIN THE WORK LIMITS FOR THE DURATION OF WORK OR UNTIL THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED.

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For Review Only

SHEET NO. **24**

1/29/2024 3:22 PM I:\BETA-INC\COMMITMENTS\1100011056 - BRISTOL PAVING FY 2024\DRAWINGFILES\PLANS\SETVOLUME 2 RIDEM ROADWAYS\11056 - EVELYN DRIVE BMP PLANS.DWG (BETA STB BW.STB)



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: APR 17 2024 FILE #: 24-0017
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE

BMP 3 - LINED SAND FILTER
 TOP OF STONE RESERVOIR COURSE = 56.10
 BOTTOM OF STONE/TOP OF PEA STONE COURSE = 54.60
 BOTTOM OF PEA STONE/TOP OF SAND FILTER = 54.27
 BOTTOM OF SAND FILTER/TOP OF STONE SUMP = 52.77
 BOTTOM OF STONE SUMP = 51.90

PREPARED BY

 www.BETA-Inc.com

REGISTERED PROFESSIONAL

 JARED LINHARES
 No. 73145
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL 1-59-24

CLIENT

 TOWN OF BRISTOL
 RHODE ISLAND

PROJECT
2024 ROAD RESURFACING PROJECT
 Bristol, RI

TITLE
EVELYN DRIVE BMP PLAN

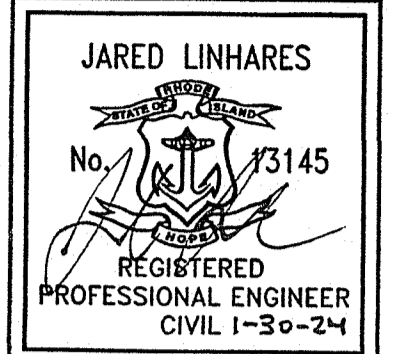
NO.	REVISIONS	DATE

DRAWN BY: JMC
 DESIGNED BY: JML
 CHECKED BY: NBI
 ISSUE DATE: JAN 2024
 BETA JOB NO.: 11056
 SCALE: AS SHOWN
 JAN 8 2024
 OFFICE OF WATER RESOURCES
 UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
For Review Only
 SHEET NO. 27

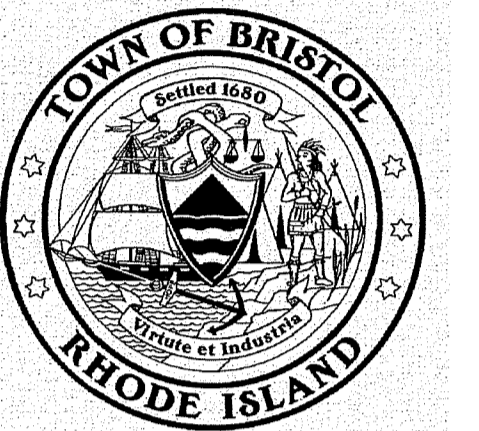
PREPARED BY



REGISTERED PROFESSIONAL



CLIENT



PROJECT

2024 ROAD RESURFACING PROJECT

Bristol, RI

TITLE

BMP DETAILS-1

NO. REVISIONS DATE

DRAWN BY: JMC

DESIGNED BY: JML

CHECKED BY: NBI

ISSUE DATE: JAN 2024

BETA JOB NO.: 11056

SCALE

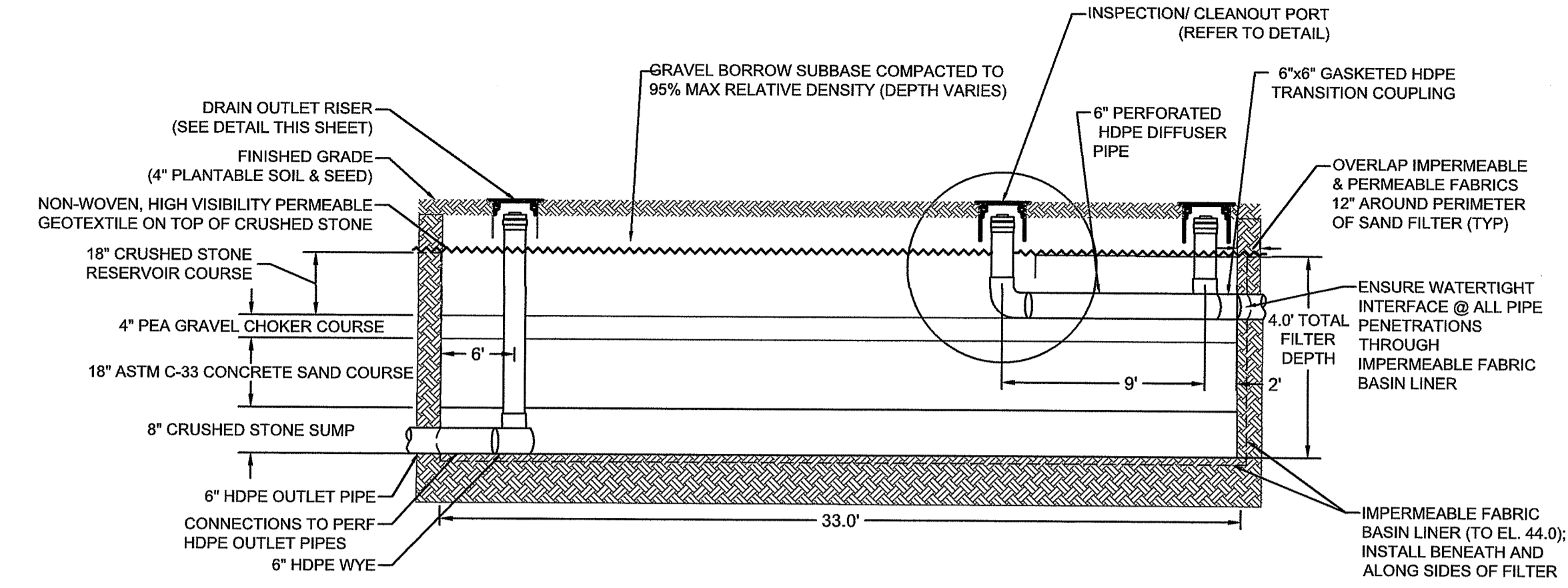
AS SHOWN

JAN 30 2024

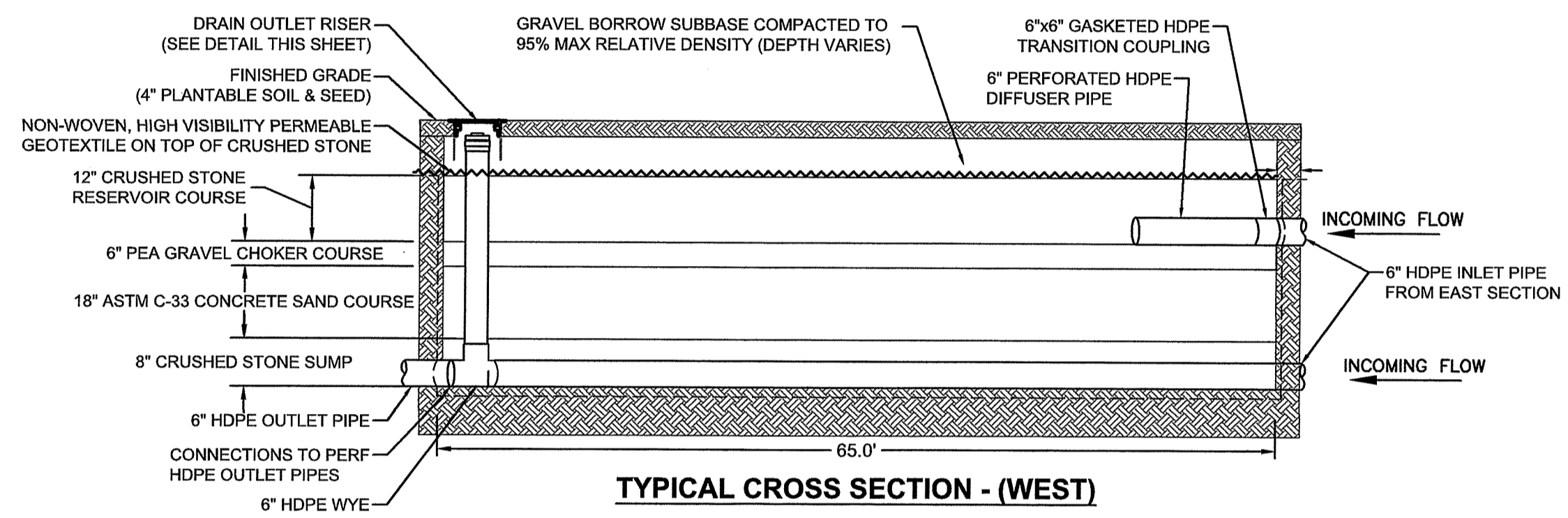
For Review Only

SHEET NO.

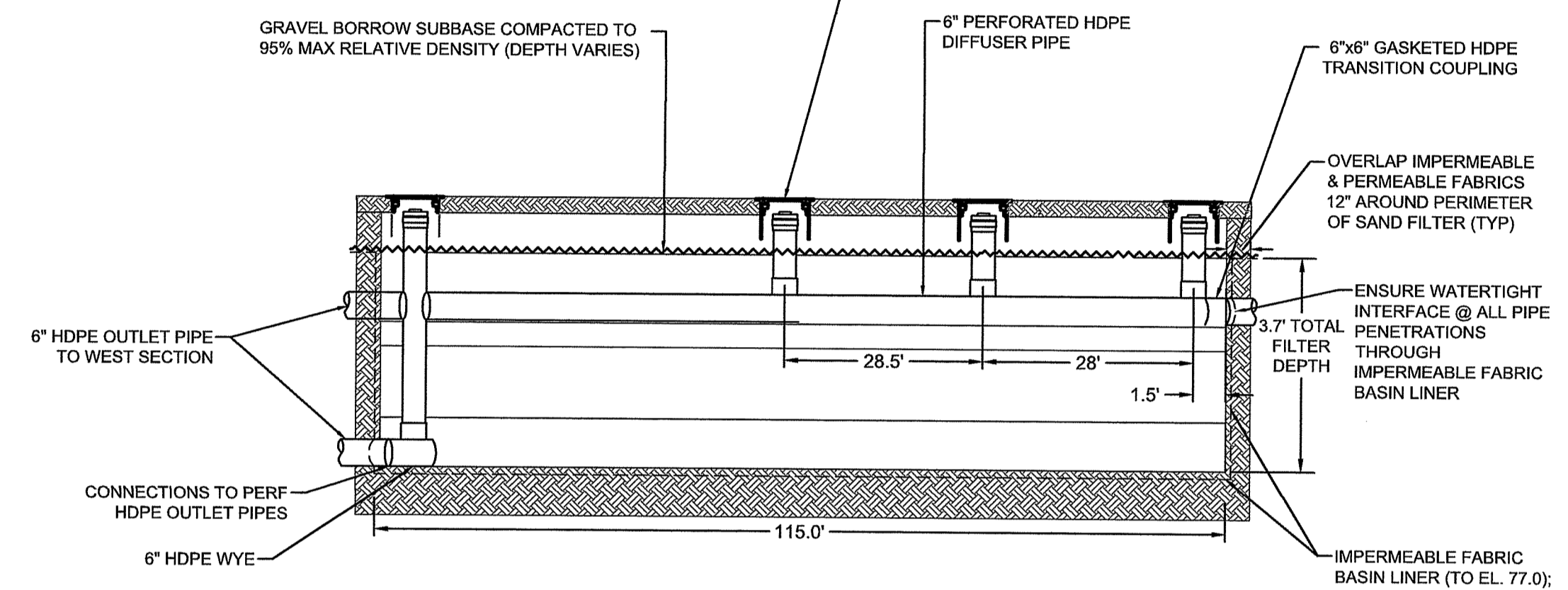
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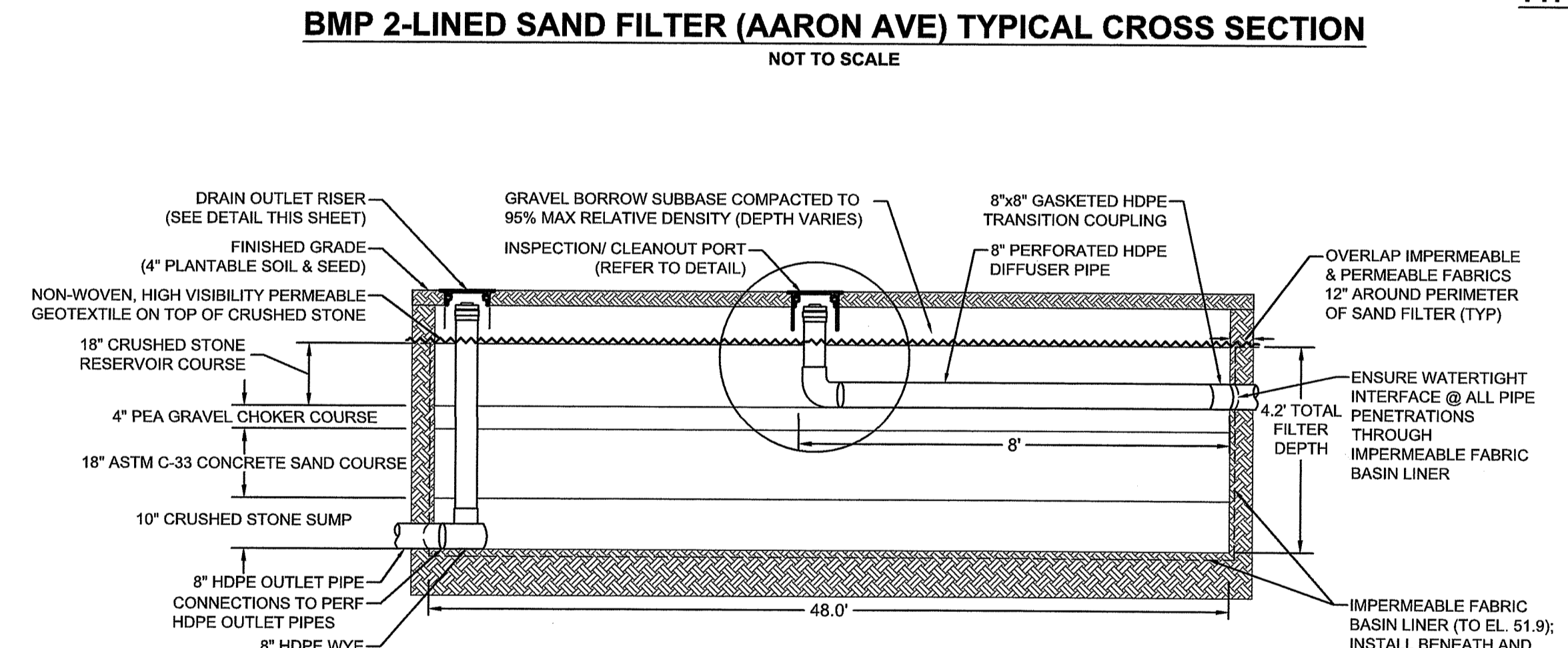
BMP 1 WEST-LINED SAND FILTER (AARON AVE) TYPICAL CROSS SECTION
NOT TO SCALE



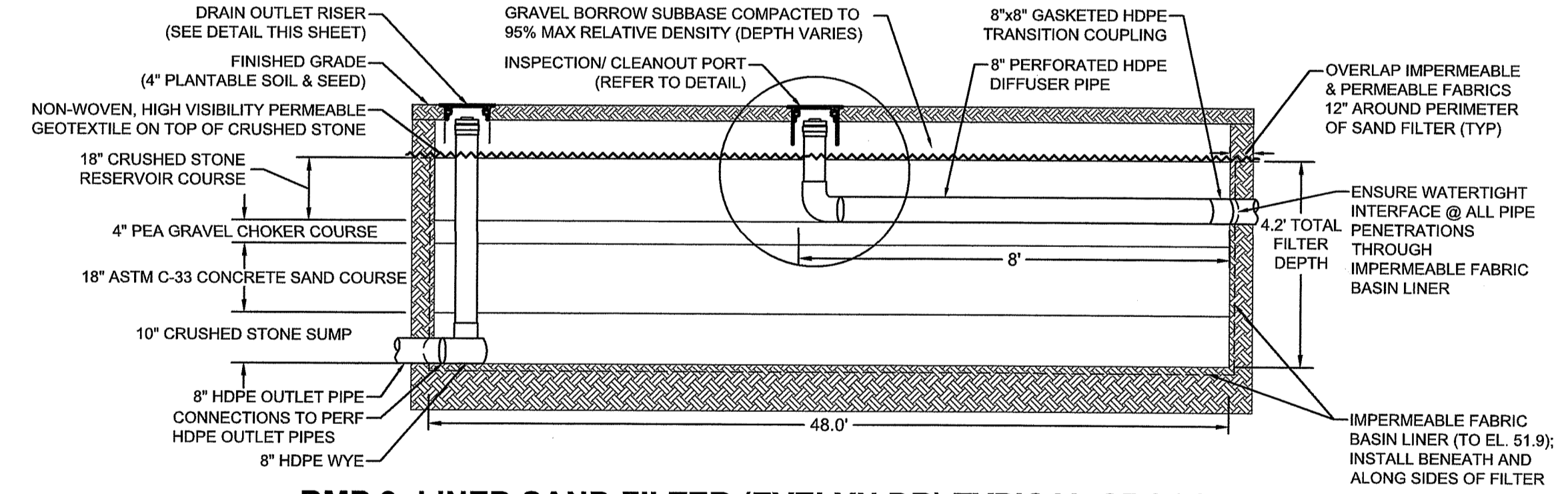
TYPICAL CROSS SECTION - (WEST)



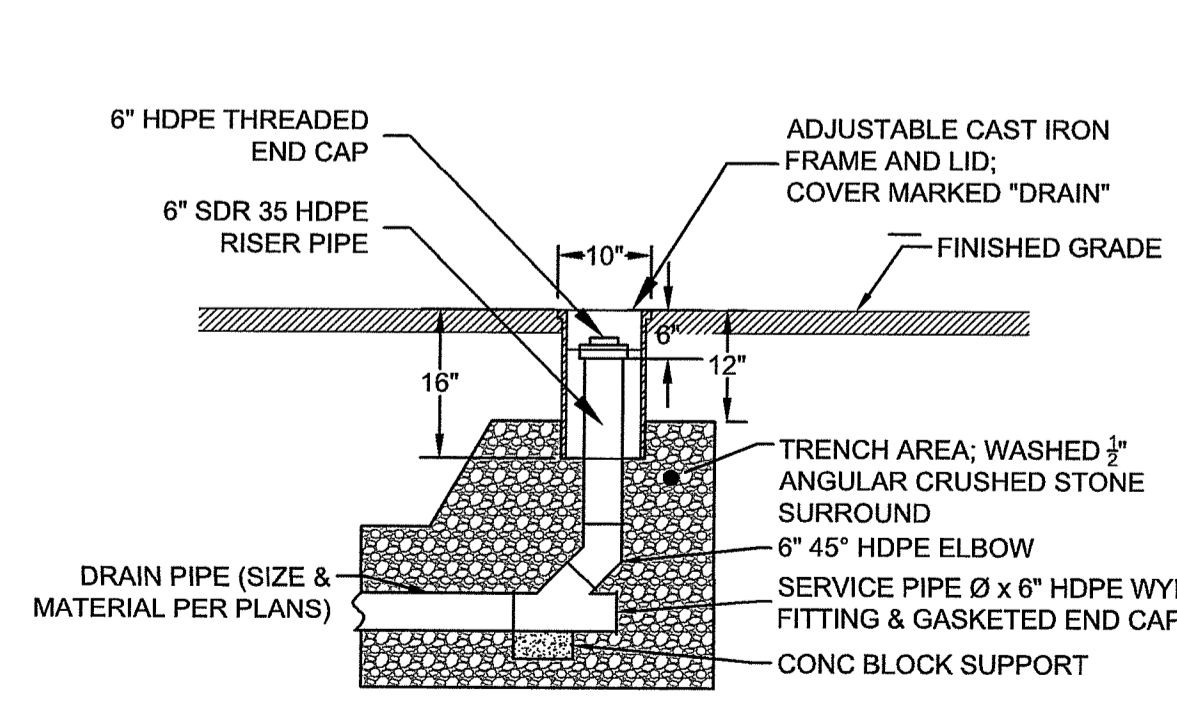
TYPICAL CROSS SECTION - (EAST)



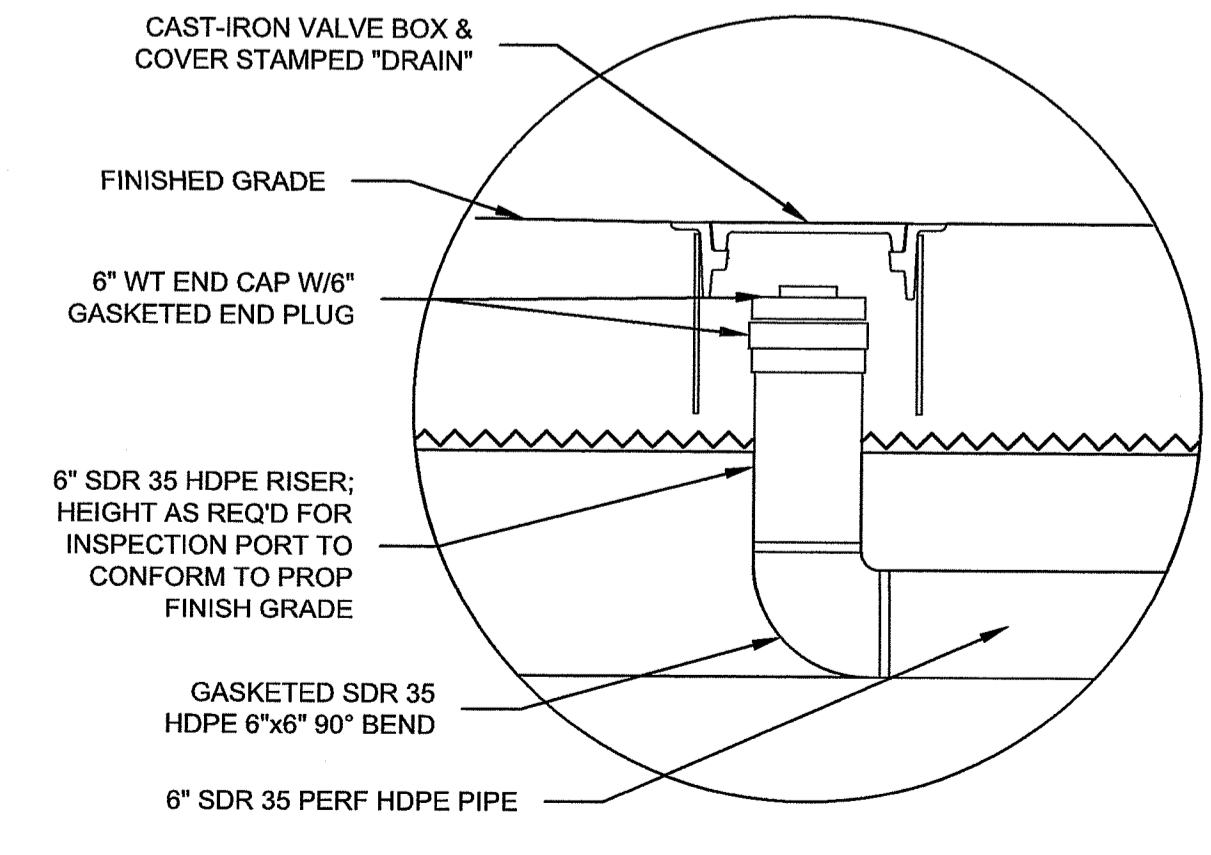
BMP 2-LINED SAND FILTER (AARON AVE) TYPICAL CROSS SECTION
NOT TO SCALE



BMP 3-LINED SAND FILTER (EVELYN DR) TYPICAL CROSS SECTION
NOT TO SCALE



DRAIN OUTLET RISER DETAIL
NOT TO SCALE



TYPICAL INSPECTION PORT - DETAIL
NOT TO SCALE

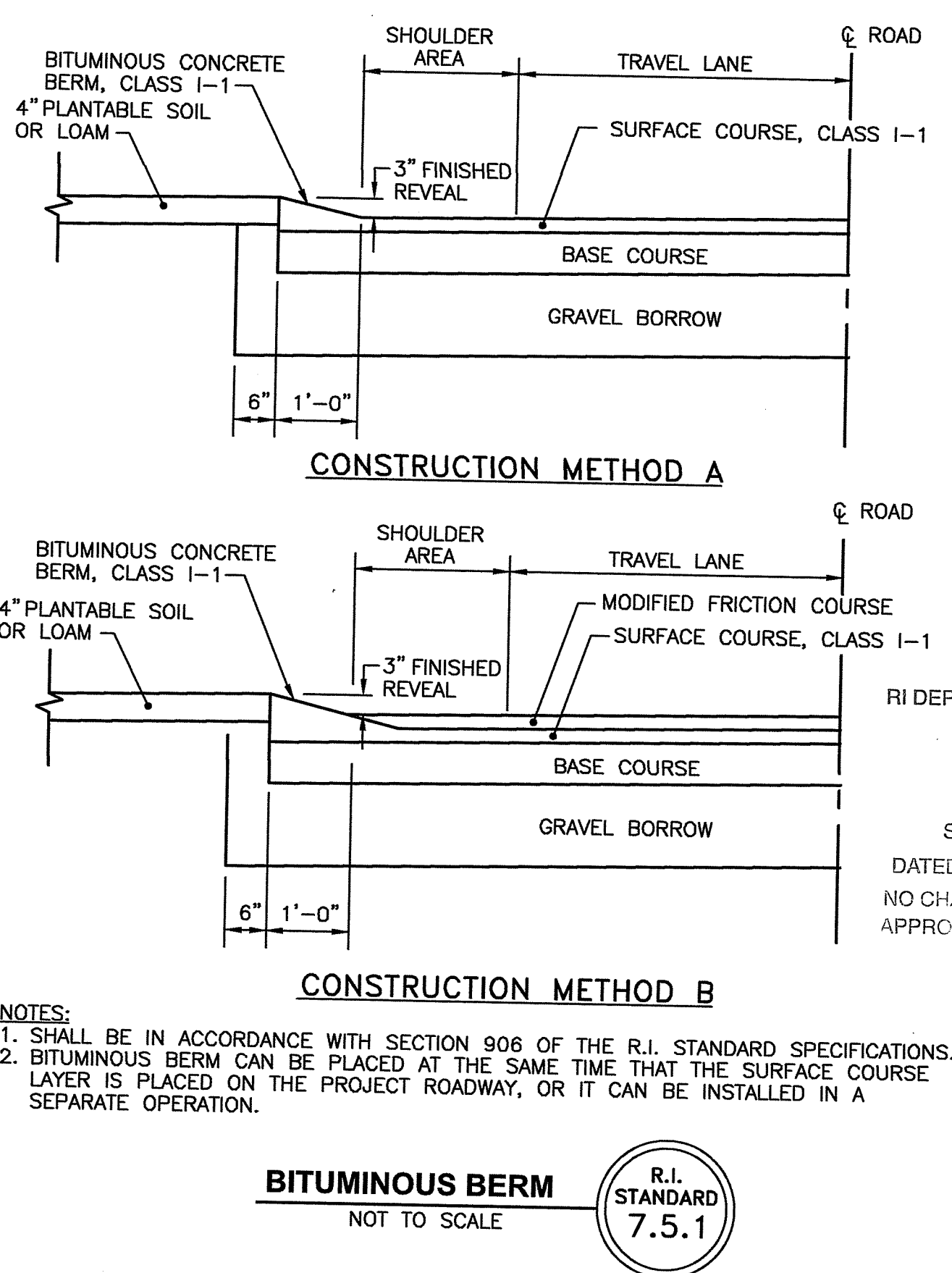
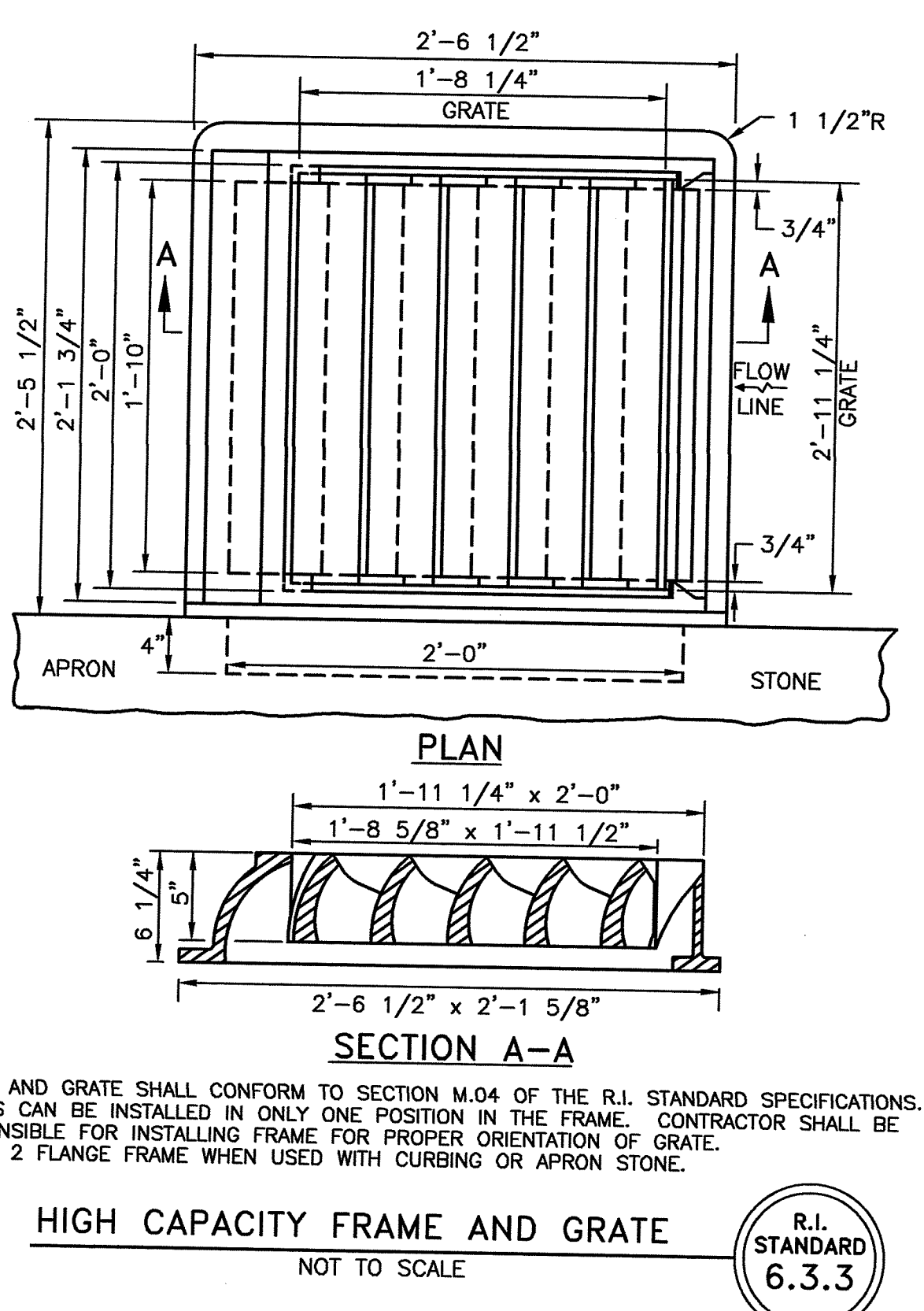
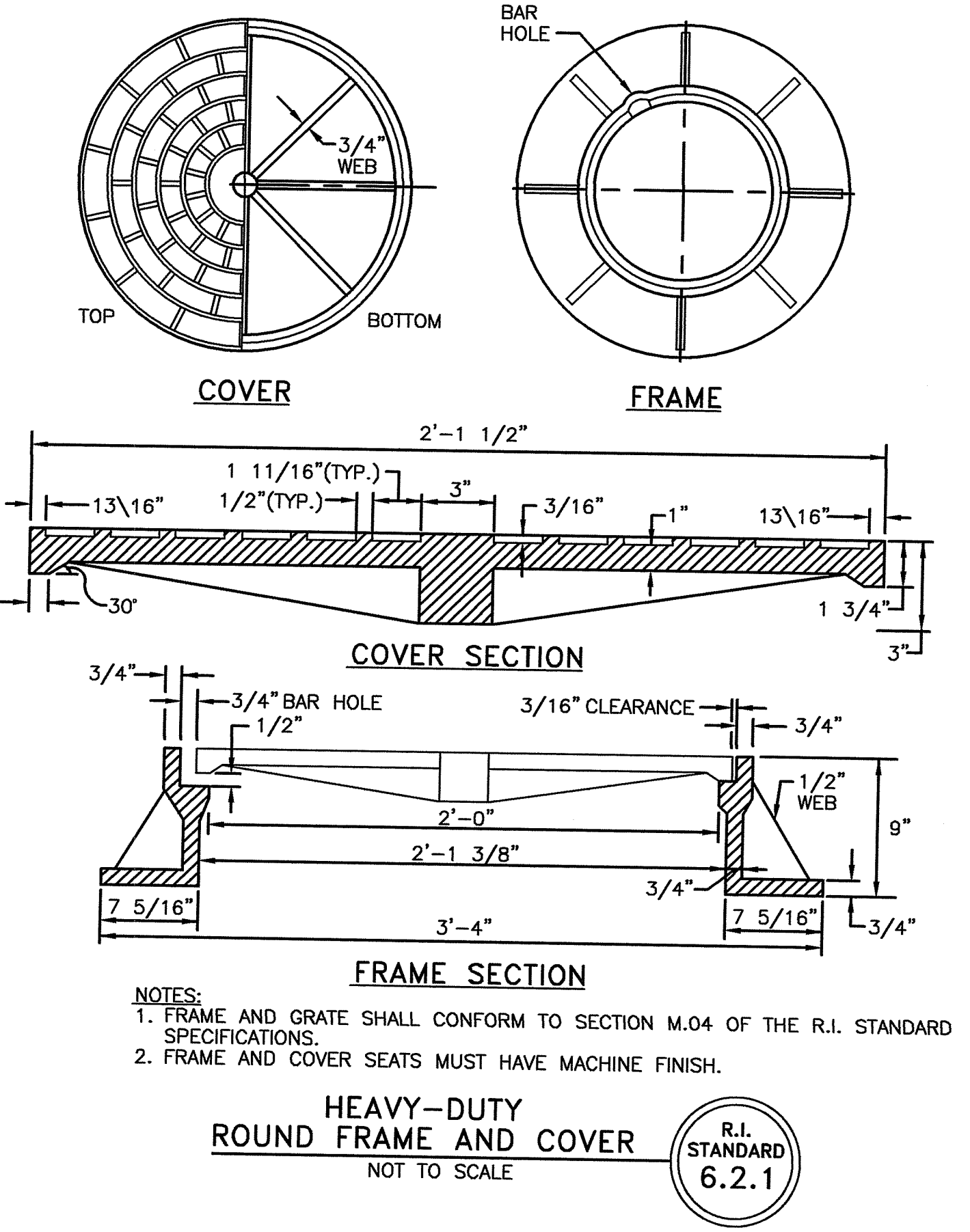
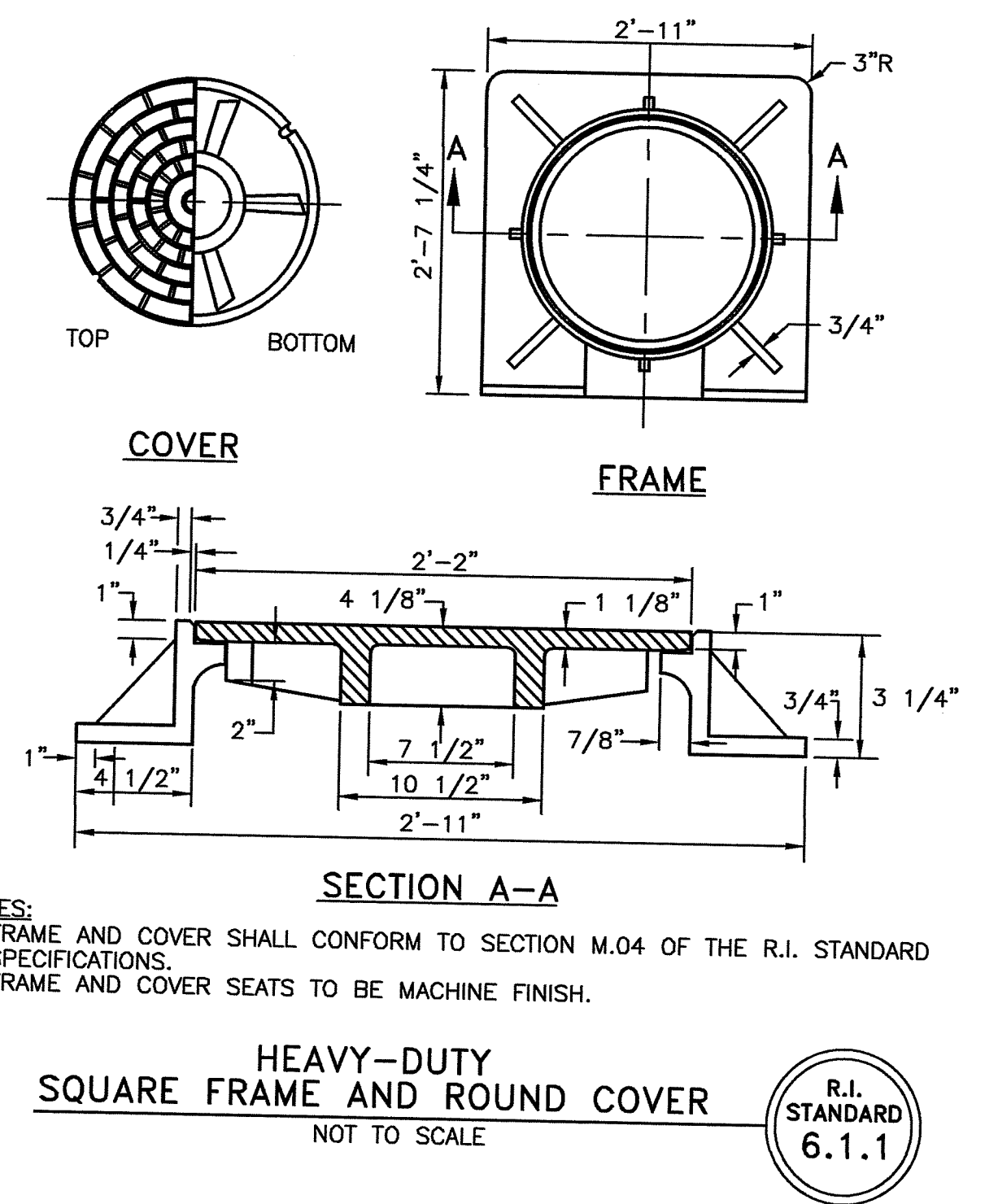
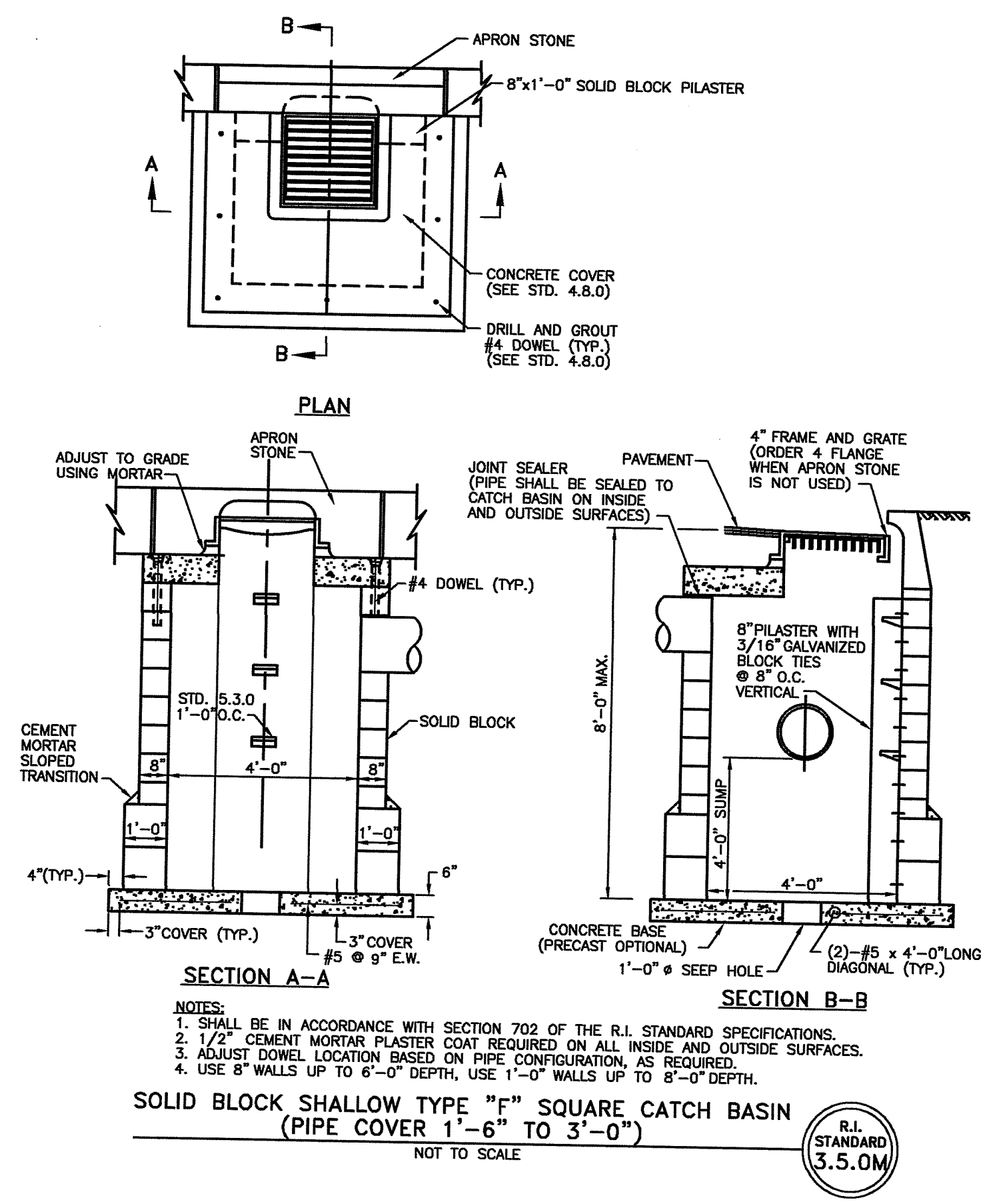
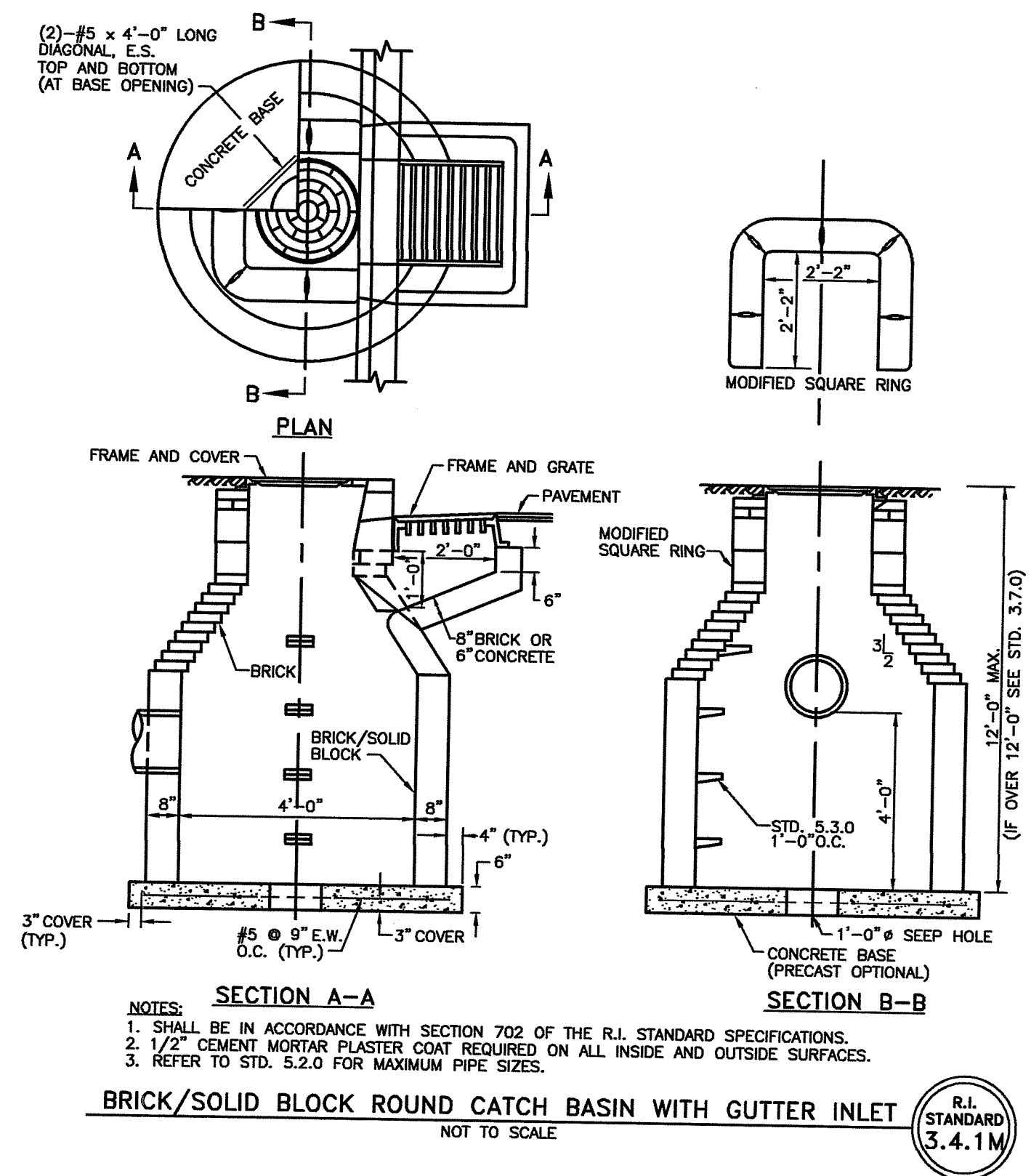
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 17 2024 FILE # 24-001
NO CHANGES WILL BE MADE WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Andy Chen

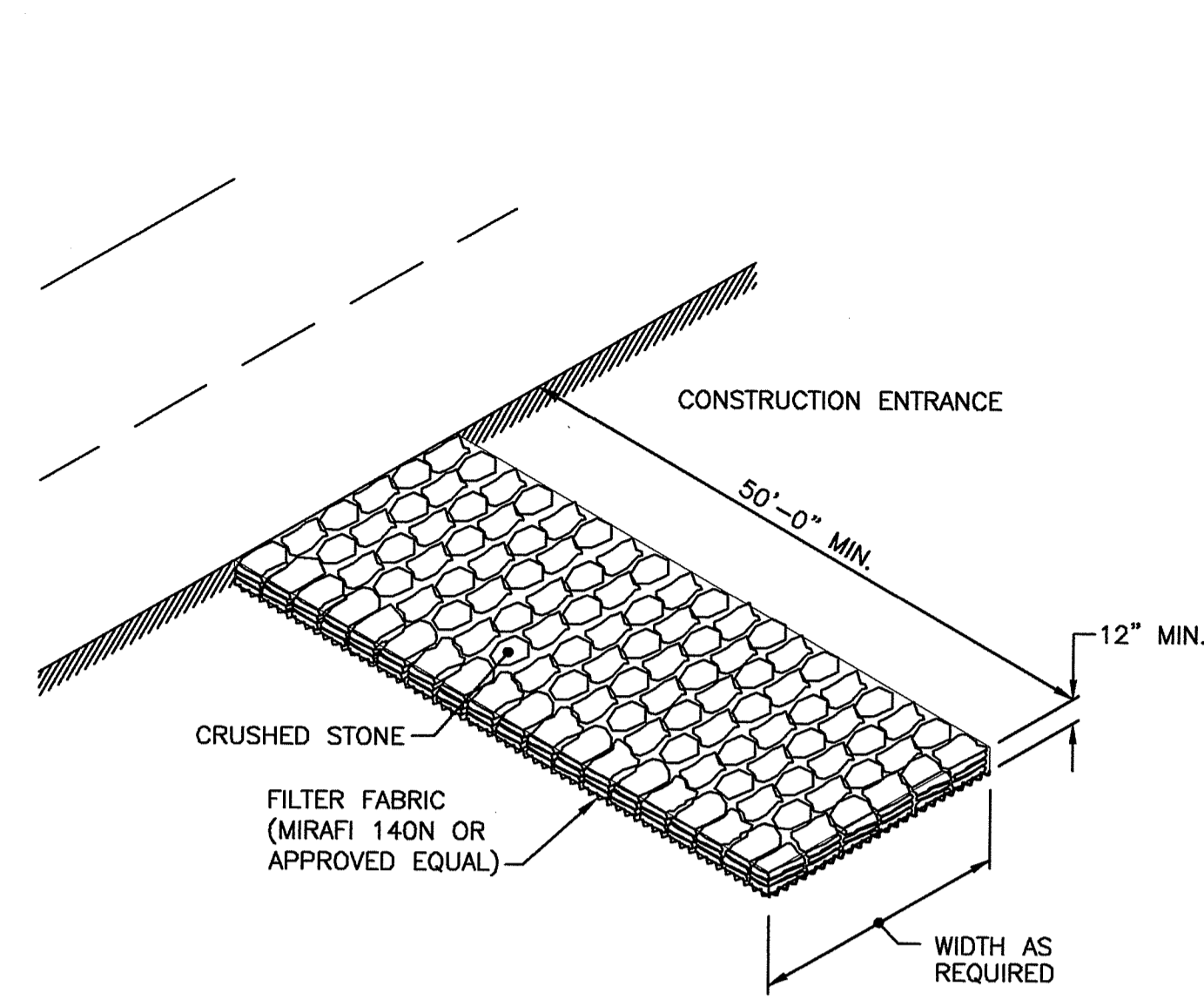
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NO.	REVISIONS	DATE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: APR 17 2024 FILE #: 24-0017
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 CHECKED BY: NBI
 ISSUE DATE: JAN 2024
 BETA JOB NO.: 11056
 SCALE: NONE
 JAN 8 2024
 RI Department of Water Resources

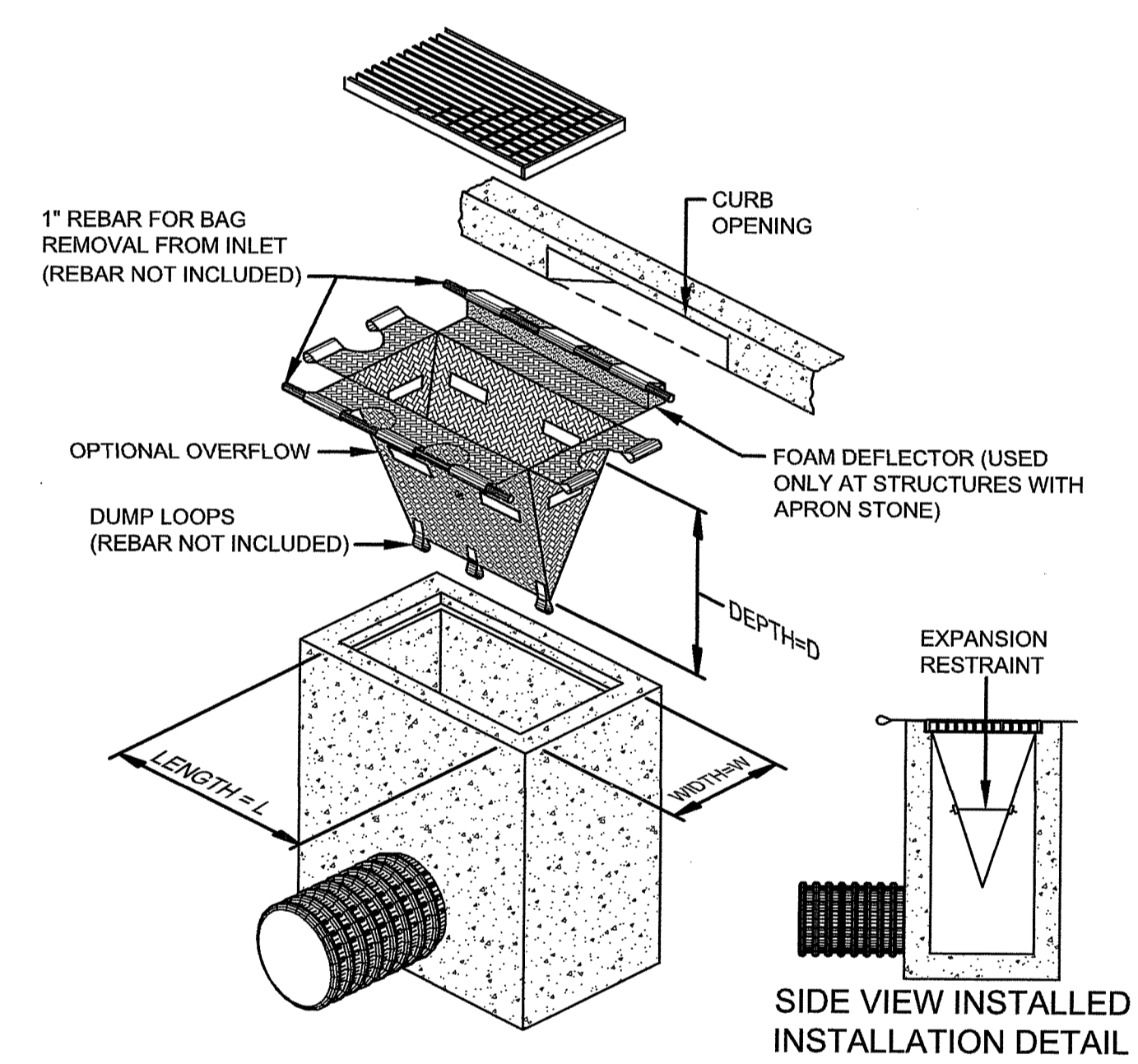


1/29/2024 3:22 PM \\BETA-INC.COM\ITTRANS\1100011056 - BRISTOL PAVING FY 2024\DRAWINGFILES\SETVOLUME 2 RIDEM ROADWAYS\11056-DETAILS.DWG (BETA STB BIV STB)

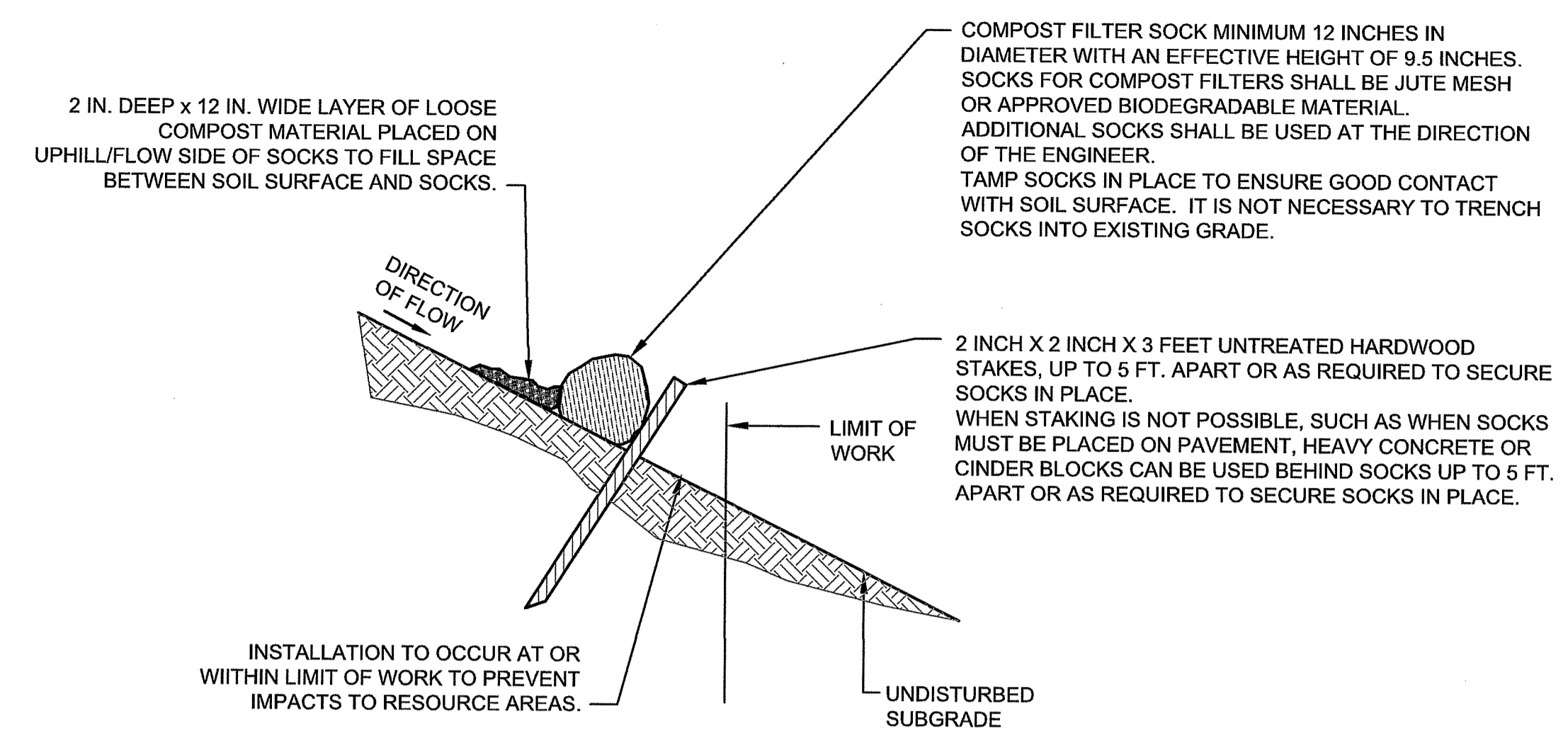


NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

CONSTRUCTION ACCESS
NOT TO SCALE



CATCH BASIN SEDIMENT CONTROL DEVICE
(WITH OPTIONAL CURB DEFLECTOR)
NOT TO SCALE



- NOTES:**
1. PROVIDE A MINIMUM SOCK DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER SOCK DIAMETER OR ADDITIONAL COURSING OF FILTER SOCKS TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
 2. INSTALL SOCKS ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
 3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
 4. CONFIGURE SOCKS AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.
 5. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS NOT JOINED, OVERLAP OLD SOCK WITH NEW BY MINIMUM OF 2 FEET.

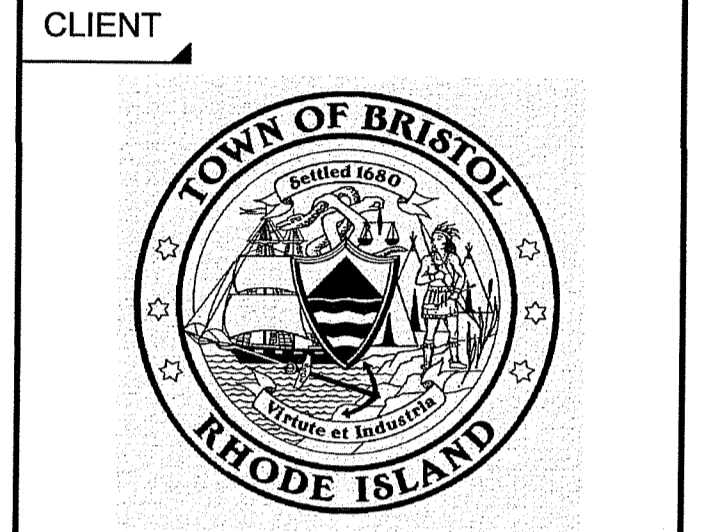
COMPOST FILTER SOCK
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: APR 17 2024 FILE #: 24-0017
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Andy Claggett

PREPARED BY
BETA
www.BETA-Inc.com

REGISTERED PROFESSIONAL
JARED LINHARES
No. 13145
REGISTERED PROFESSIONAL ENGINEER
CIVIL 1-30-24



PROJECT
2024 ROAD RESURFACING PROJECT
Bristol, RI

TITLE
CONSTRUCTION DETAILS NO. 2

NO.	REVISIONS	DATE

DRAWN BY: JMC
DESIGNED BY: JML
CHECKED BY: NBI
ISSUE DATE: JAN 2024
BETA JOB NO.: 11056

SCALE
NONE
JAN 30 2024
Office of Water Resources

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SHEET NO. **31**