

Checked: DMC Scale: AS NOTED | Project No.: 19038 Drawing Name: 19038-EXISTING-CONDITIONS.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

2	11/26/19	REVISED PER REVIEW COMMENTS	MJS
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Jones & Beach Engineers, Inc.

PO Box 219 Stratham, NH 03885

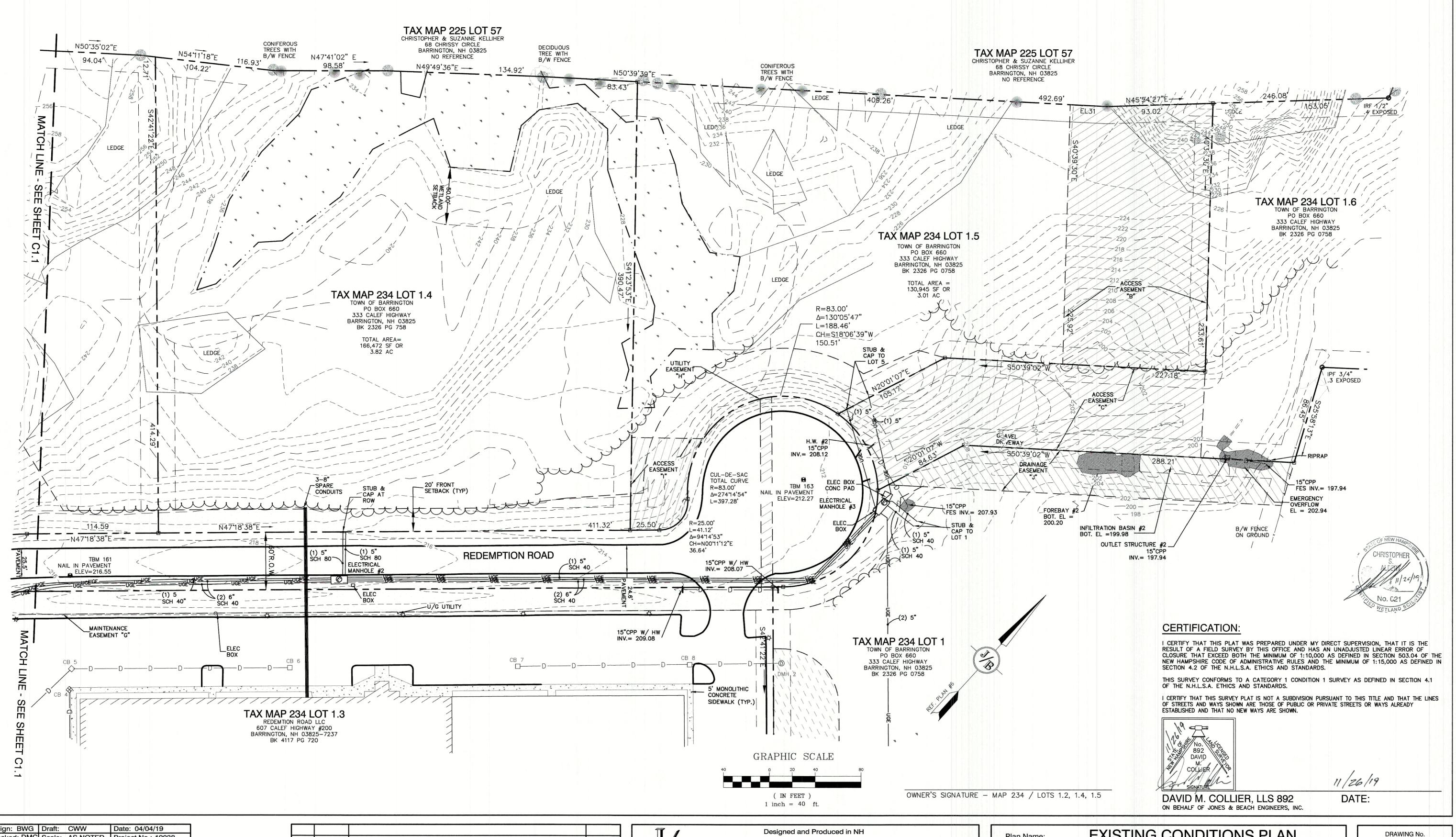
85 Portsmouth Ave. Civil Engineering Services 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

TAX MAP 233, LOT 77 & TAX MAP 234, LOTS 1.2, 1.4 & 1.5 ROUTE 9 & REDEMTION ROAD, BARRINGTON, NH

Owner of Record:

TOWN OF BARRINGTON PO BOX 660 333 CALEF HIGHWAY BARRINGTON, NH 03825 BK 2326 PG 0758 & BK 4342 PG 49

SHEET 1 OF 2 JBE PROJECT NO. 19038



Design: BWG Draft: CWW Checked: DMC Scale: AS NOTED Project No.: 19038 Drawing Name: 19038-EXISTING-CONDITIONS.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

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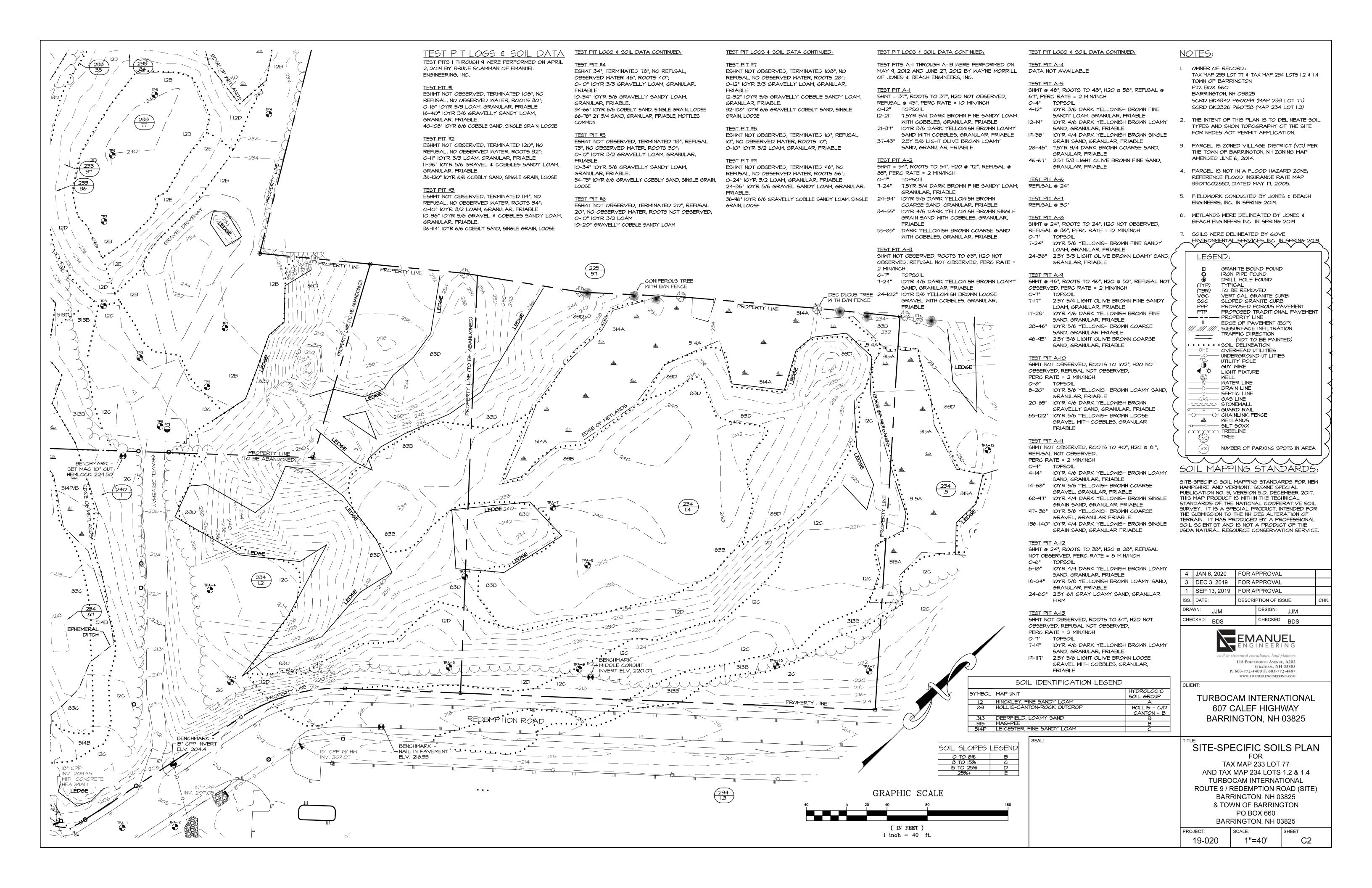
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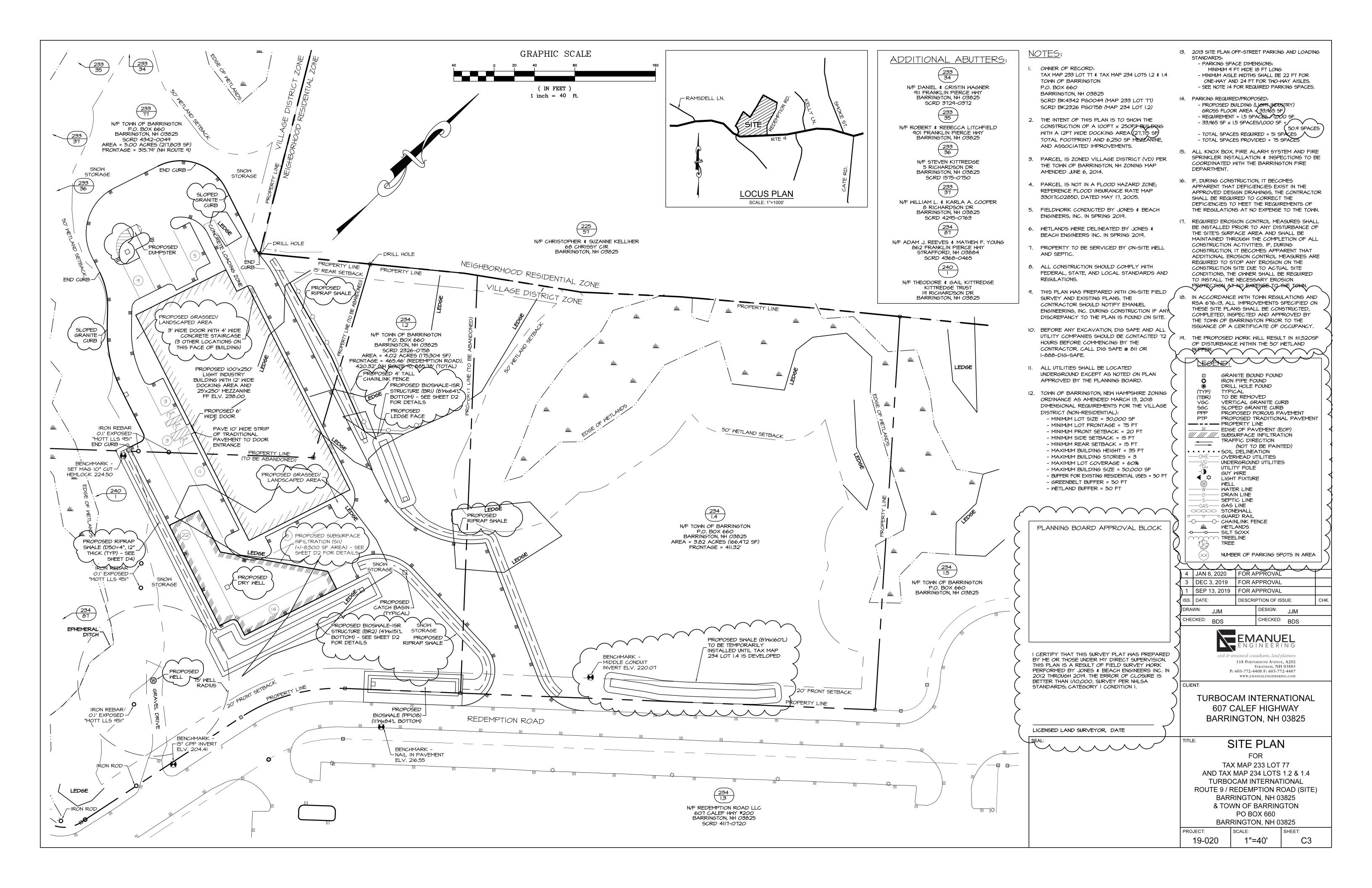
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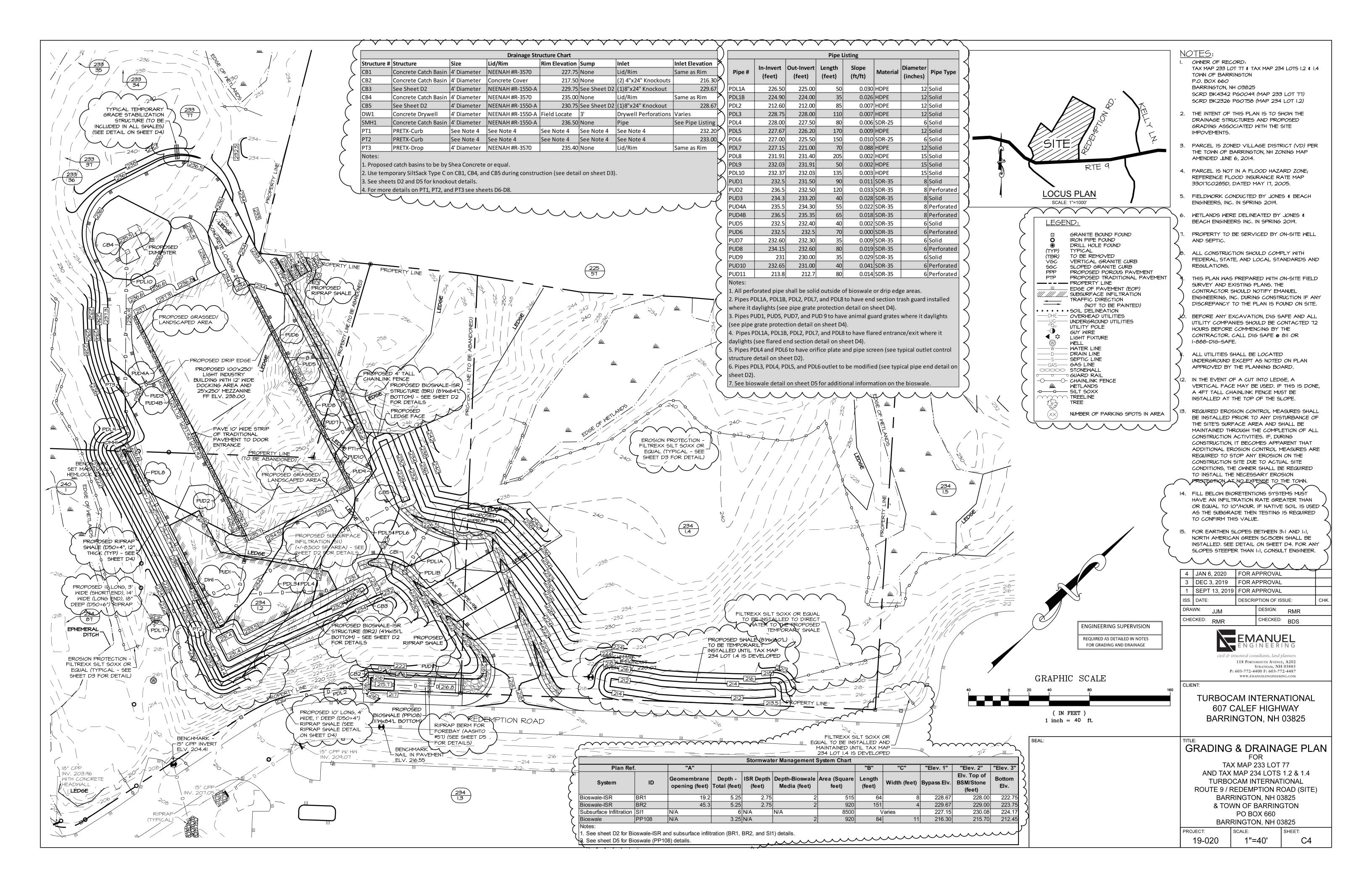
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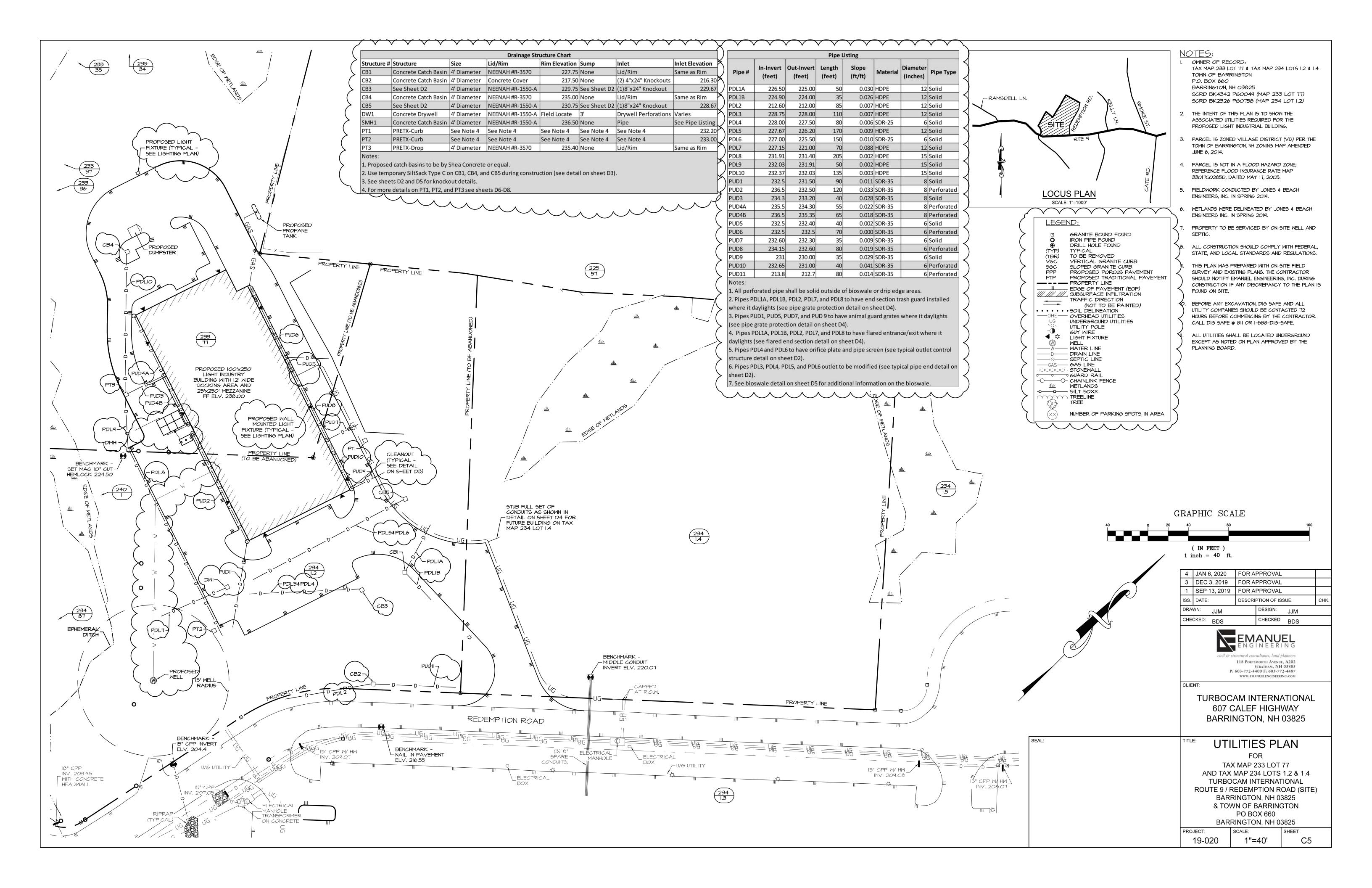
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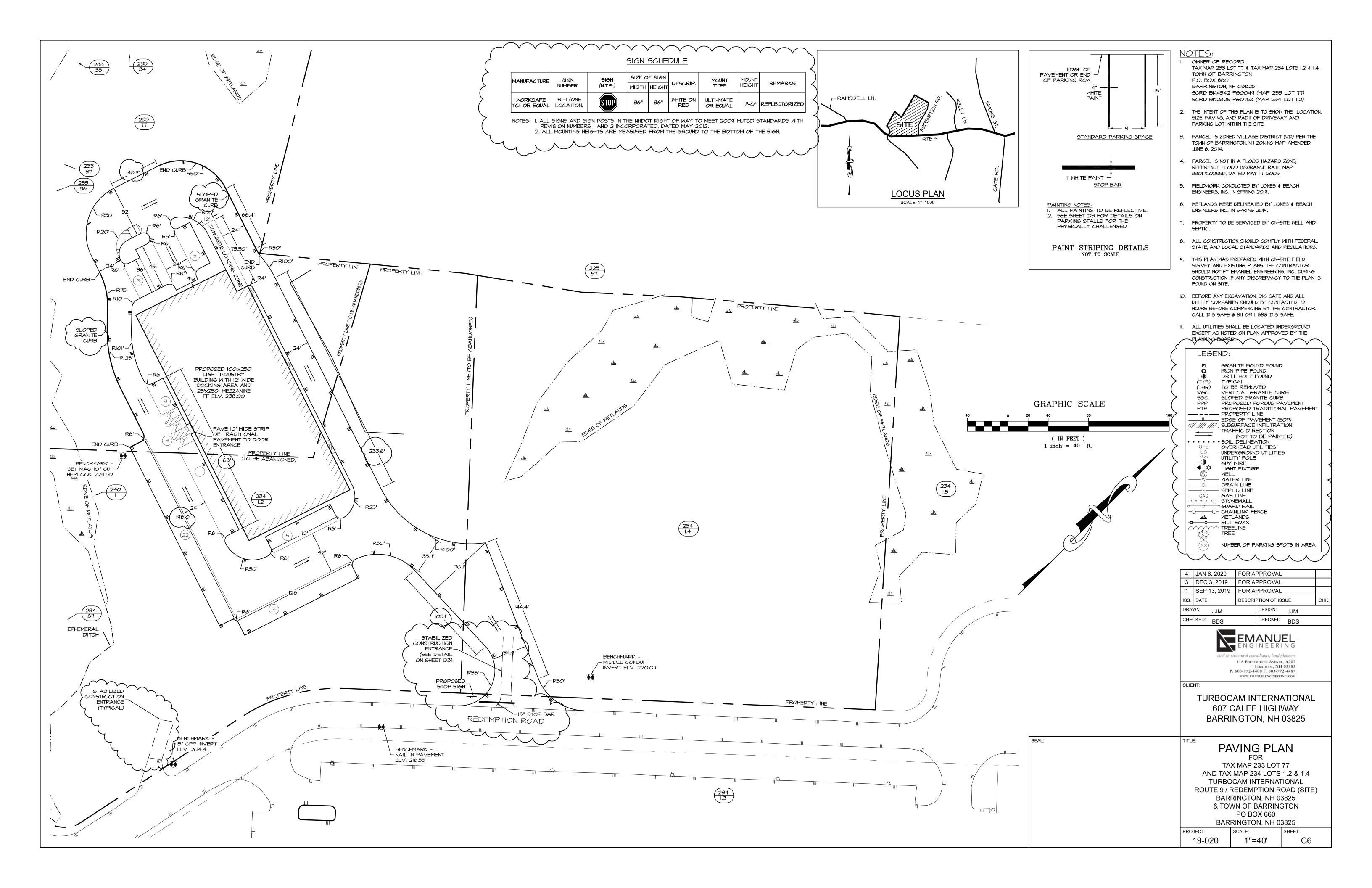
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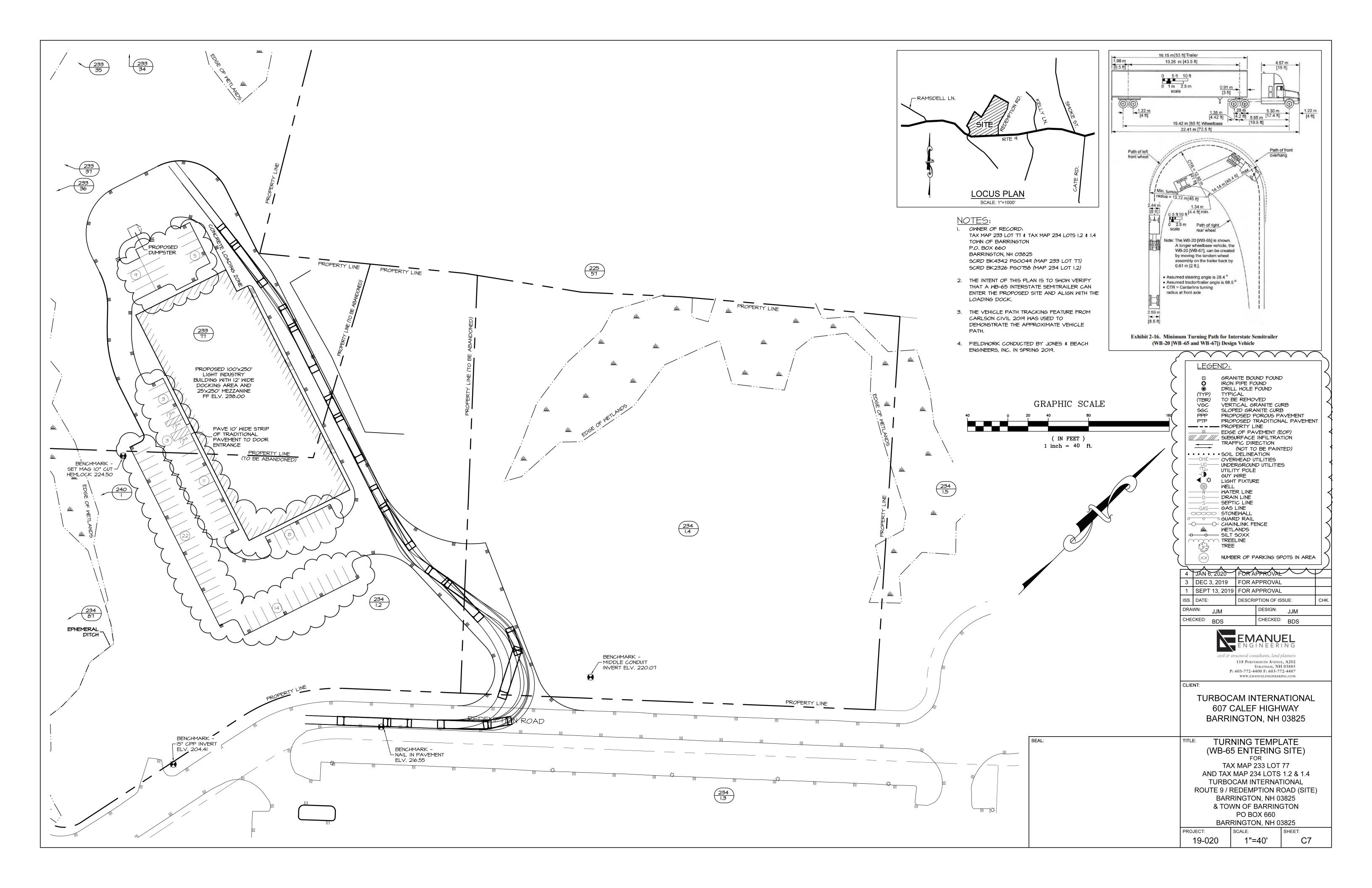


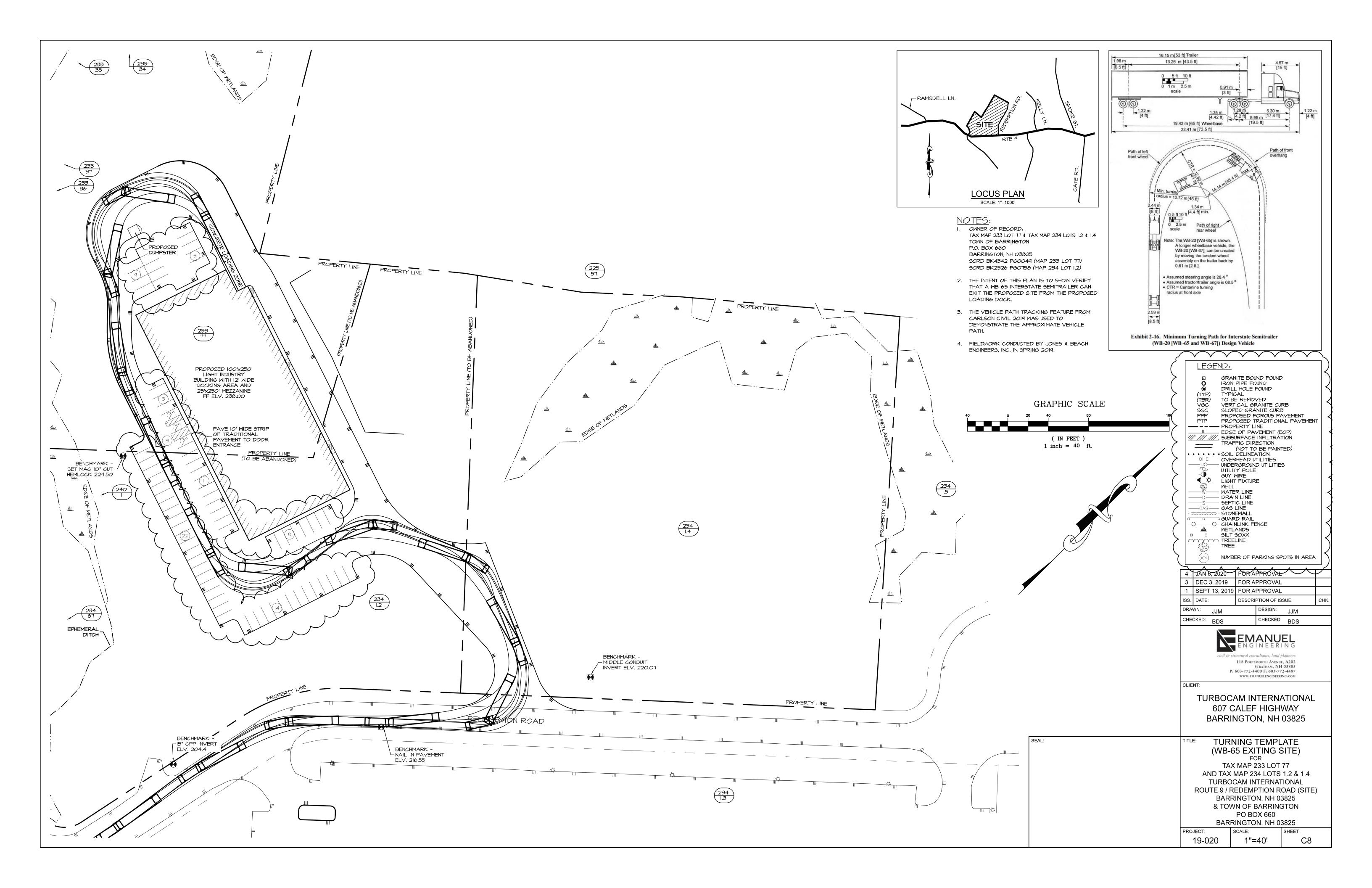


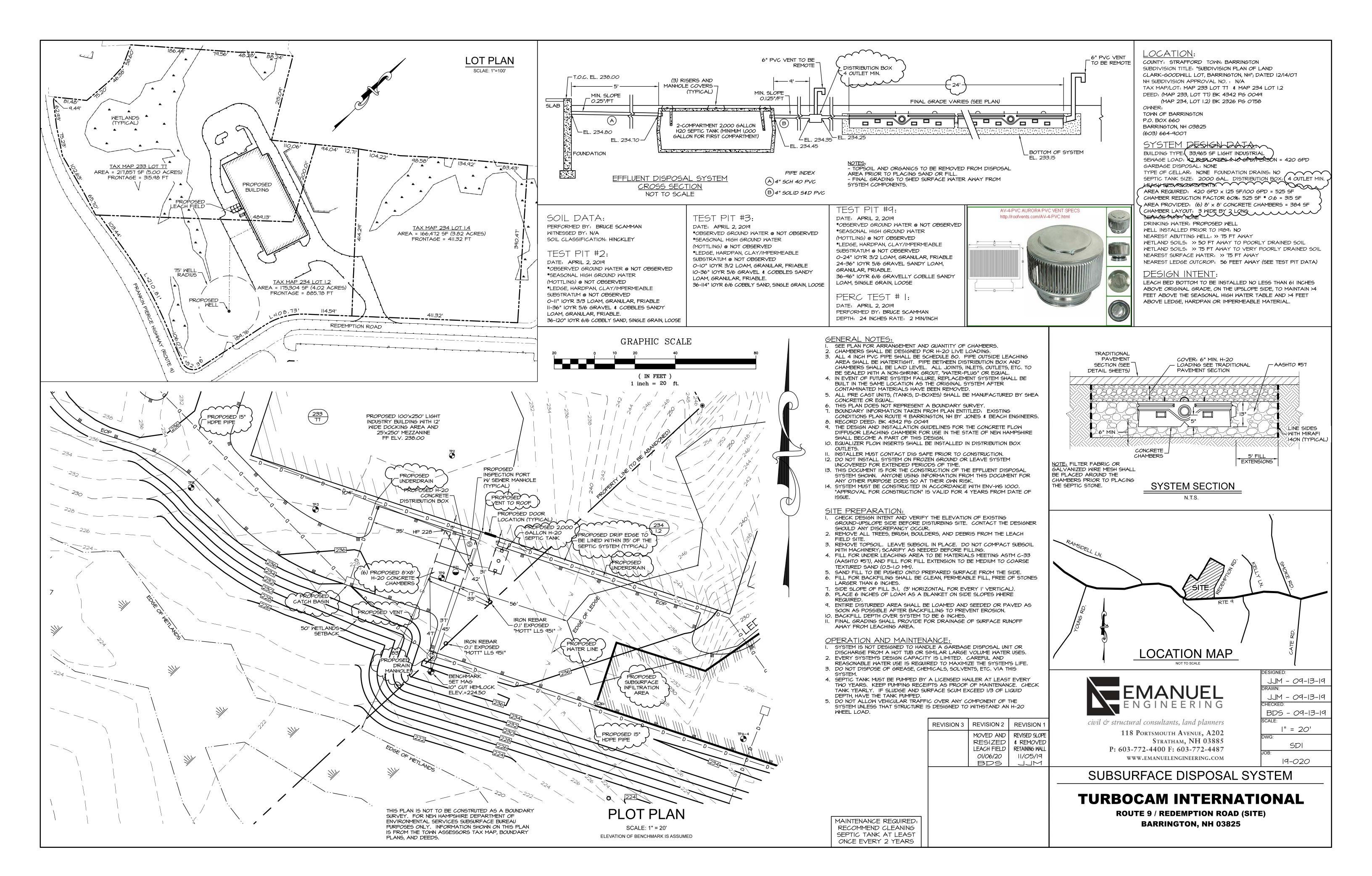












- EROSION AND SEDIMENTATION CONTROL CONSTRUCTION PHASING AND SEQUENCING:
- SEE "EROSION AND SEDIMENTATION CONTROL GENERAL NOTES" WHICH ARE TO BE AN INTEGRAL PART OF THIS PROCESS
- 2. INSTALL SILT FENCING AND/OR HAY BALE BARRIERS AS PER DETAILS AND AT SEDIMENT MIGRATION.
- 3. CONSTRUCT TREATMENT SWALES, LEVEL SPREADERS AND DETENTION STRUCTURES AS DEPICTED ON DRAWINGS.
- 4. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE(S) AS PER DETAIL AND AT LOCATIONS SHOWN ON THE DRAWINGS. MAINTAIN (TOP DRESS) REGULARLY TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS
- 5. STRIP AND STOCKPILE TOPSOIL. STABILIZE PILES OF SOIL CONSTRUCTION MATERIAL.
- 6. ROUGH GRADE SITE. INSTALL CULVERTS AND ROAD DITCHES.
- 7. FINISH GRADE AND COMPACT SITE.
- 8. RE-SPREAD AND ADD TOPSOIL TO ALL ROADSIDE SLOPES. TOTAL TOPSOIL THICKNESS TO BE A MINIMUM OF FOUR TO SIX INCHES.
- 9. STABILIZE ALL AREAS OF BARE SOIL WITH MULCH AND SEEDING.
- IO. RE-SEED PER EROSION AND SEDIMENTATION CONTROL GENERAL NOTES.
- II. SILT FENCING AND HAY BALES TO REMAIN AND BE MAINTAINED FOR TWENTY FOUR MONTHS AFTER CONSTRUCTION TO INSURE ESTABLISHMENT OF ADEQUATE SOIL STABILIZATION AND VEGETATIVE COVER. ALL SILT FENCING, HAY BALES AND TRAPPED SILT ARE THEN TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
- 12. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
- 13. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE -BEFORE ROUGH GRADING THE SITE.
- 14. ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- 15. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 16. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
- 17. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF

<u>WINTER CONSTRUCTION NOTES</u> (OCTOBER 15 TO MAY I):

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPETED IN ADVANCE OF THAW OR SPRING MELT EVENT.
- 2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- 3. AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

GRASS SWALE MAINTENANCE

- TIMELY MAINTENANCE IS IMPORTANT TO KEEP THE 4. MULCH: HAY OR STRAW 1.5-2 TONS/ACRE. VEGETATION IN THE SWALE IN GOOD CONDITION. MOWING SHOULD BE DONE FREQUENTLY ENOUGH TO 5. GRADING AND SHAPING: KEEP THE VEGETATION IN VIGOROUS CONDITION AND TO CONTROL ENCROACHMENT OF WEEDS AND WOODY VEGETATION, HOWEVER, IT SHOULD NOT BE MOWED TOO CLOSELY SO AS TO REDUCE THE FILTERING EFFECT. FERTILIZE ON AN "AS NEEDED" BASIS TO KEEP THE GRASS HEALTHY. OVER FERTILIZATION CAN RESULT IN THE SWALE BECOMING A SOURCE OF POLLUTION.
- 2. THE SWALE SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE THE CONDITION OF THE SWALE. RILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND RE-VEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.

EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

- CONDUCT ALL CONSTRUCTION IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE PHYSICAL ENVIRONMENT, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED
- 2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES IN THE PLAN SHALL MEET THE DESIGN BASED ON NEW HAMPSHIRE STORMWATER MANUAL, VOLUMES I-3: DATED DECEMBER 2008, PREPARED BY NHDES
- 3. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: • BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED. • A MINIMUM OF 3" OF NON-EROSIVE MATERIAL
- SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED. • EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 4. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- 5. SEE WINTER CONSTRUCTION NOTES IF SCHEDULE
- AND DATES ARE APPLICABLE. 6. ALL DITCHES, SWALES AND PONDS MUST BE
- 7. ALL GROUND AREAS OPENED UP FOR CONSTRUCTION WILL BE STABILIZED IN THE SHORTEST PRACTICAL TIME. ALL SOILS FINISH GRADED MUST BE STABILIZED WITHIN SEVENTY TWO HOURS OF DISTURBANCE.

STABILIZED PRIOR TO DIRECTING FLOW TO THEM.

- 8. EMPLOY TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES AS DETAILED ON THIS PLAN AS NECESSARY UNTIL ADEQUATE STABILIZATION HAS BEEN ASSURED.
- 9. TEMPORARY & LONG TERM SEEDING: USE SEED MIXTURES, FERTILIZER, LIME AND MULCHING AS RECOMMENDED (SEE SEEDING AND STABILIZATION NOTES).
- IO. STRAW OR HAY BALE BARRIERS AND SILTATION FENCING TO BE SECURELY EMBEDDED AND STAKED AS DETAILED. WHEREVER POSSIBLE A VEGETATED STRIP OF AT LEAST TWENTY FIVE FEET IS TO BE KEPT BETWEEN SILT FENCE AND ANY EDGE OF WET AREA.
- II. SEEDED AREAS WILL BE FERTILIZED AND RE-SEEDED AS NECESSARY TO ENSURE VEGETATIVE ESTABLISHMENT.
- 12. SEDIMENT BASIN(S), IF REQUIRED, TO BE CHECKED AFTER EACH SIGNIFICANT RAINFALL AND CLEANED AS NEEDED TO RETAIN DESIGN
- 13. STRAW BALE AND/OR SILT FENCE BARRIERS WILL BE CHECKED REGULARLY AND AFTER EACH SIGNIFICANT RAINFALL, NECESSARY REPAIRS WILL BE MADE TO CORRECT UNDERMINING OR DETERIORATION OF THE BARRIER AS WELL AS CLEANING, REMOVAL AND PROPER DISPOSAL OF TRAPPED SEDIMENT.
- 14. TREATMENT SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATIVE COVER HAS BEEN
- 15. THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- OR MULCH AND NETTING SHALL NOT OCCUR OVER 16. TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC.) MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.

SEEDING AND STABILIZATION FOR LOAMED SITE:

- FOR TEMPORARY & LONG TERM SEEDINGS (BY SEPTEMBER 15 OF THE SAME YEAR OF DISTURBANCE) USE AGWAY'S SOIL CONSERVATION GRASS SEED OR EQUAL.
- 2. COMPONENTS: ANNUAL RYE GRASS, PERENNIAL RYE GRASS, WHITE CLOVER, 2 FESCUES, SEED AT A RATE OF 100 POUNDS PER ACRE.
- 3. FERTILIZER & LIME: NITROGEN (N) 50 LBS/ACRE, PHOSPHATE (P205) 100 LBS/ACRE, POTASH (K20) 100 LBS/ACRE, LIME 2000 LBS/ACRE.
- SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
- 6. SEED BED PREPARATION - SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE
- STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

STABILIZATION CONSTRUCTION ENTRANCE SPECIFICATIONS:

- STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE (MINIMUM), RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT
- THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 75 FEET (OR 50 FEET WITH A 3 TO 6 INCH MOUNTABLE BERM).
- THE THICKNESS OF THE STONE FOR THE STABILIZATION ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR IO FEET WHICH EVER IS GREATER.
- GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE \
- ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE, IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- 7. THE ENTRANCE 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 OF ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.
- WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

FILTREXX LAND IMPROVEMENT SYSTEMS INSPECTION & MAINTENANCE:

- CONSULT FILTREXX SWPP CUT SHEETS FOR ALL FILTREXX PRODUCTS PRIOR TO INSTALLATION AND FOR MAINTENANCE GUIDELINES. HTTP://WWW.FILTREXX.COM/DESIGN_CUT_SHEETS.HTM
- 2. ROUTINE INSPECTION SHOULD BE CONDUCTED WITHIN 24 HRS OF A RUNOFF EVENT OR AS DESIGNATED BY THE REGULATING AUTHORITY UNITS SHOULD BE REGULARLY INSPECTED TO MAKE SURE THEY MAINTAIN THEIR SHAPE AND ARE PRODUCING ADEQUATE HYDRAULIC FLOW-THROUGH, DITCH/CHANNEL EROSION CONTROL, AND SEDIMENT REMOVAL.
- 3. IF PONDING BECOMES EXCESSIVE, ADDITIONAL CHECK DAMS, LEVEL SPREADERS, OR SEDIMENT CONTROL UNITS FOR SEDIMENT REMOVAL MAY BE REQUIRED
- SEDIMENT ACCUMULATION SHOULD BE REMOVED ONCE IT REACHES THE HEIGHT OF THE CHECK DAM OR UNIT. ALTERNATIVELY, ANOTHER UNIT MAY BE INSTALLED SLIGHTLY UPSLOPE, ON TOP OF THE EXISTING ONE. THIS PROCESS IS NOT CONSIDERED A SOIL DISTURBING ACTIVITY.
- STORM DEBRIS ACCUMULATION BEHIND CHECK DAMS, LEVEL SPREADER, SEDIMENT CONTROL UNIT, ETC. SHOULD NEVER BE HIGHER THAN THE SIDES OF THE CHECK DAM/UNIT. STORM RUNOFF OVERFLOW SHALL MAINTAIN THE UNITS IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
- 6. IF A UNIT HAS BEEN DAMAGED, IT SHALL BE REPAIRED, OR REPLACED IF BEYOND REPAIR.
- 7. THE CONTRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF UNITS WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE SOXX, OR AS DIRECTED BY THE ENGINEER.
- 8. AS AN ALTERNATIVE, ANOTHER SOXX UNIT MAY BE INSTALLED ADJACENT AND PARALLEL TO THE UPSLOPE SIDE OF THE ORIGINAL TO INCREASE SEDIMENT STORAGE CAPACITY. SOXX SEDIMENT BACKUP IN CENTER OF THE DITCH/CHANNEL SHALL REMAIN LOWER THAN THE /
- 9. IF SOXX UNIT BECOMES CLOGGED WITH DEBRIS AND SEDIMENT, IMMEDIATE REMOVAL OF DEBRIS AND SEDIMENT SHOULD BE CONDUCTED TO ASSURE PROPER DRAINAGE AND WATER FLOW THROUGH THE DITCH OR CHANNEL. STORM RUNOFF OVERFLOW OF THE SOXX UNIT IS ACCEPTABLE.
- IO. SOXX UNITS SHALL BE MAINTAINED UNTIL DISTURBED AREA AROUND THE DEVICE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS CEASED.
- THE FILTERMEDIATM MAY BE DISPERSED ON SITE ONCE DISTURBED AREA HAS PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY CEASED, OR DETERMINED BY THE ENGINEER.
- 12. PERMANENT VEGETATED FILTER STRIPS WILL BE LEFT INTACT.

BLASTING NOTES - BEST MANAGEMENT PRACTICES (Env-Wa 1510)

10.03 LOADING PRACTICES: A. THE DRILLER SHALL MAINTAIN DRILLING LOGS TO DOCUMENT: I.) THE DEPTHS AND LENGTHS OF VOIDS,

B. THE DRILLER SHALL COMMUNICATE THE

- CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED; AND 2.) GROUNDWATER CONDITIONS.
- CONTENTS OF THE DRILLING LOGS DIRECTLY TO THE BLASTER. C. EXPLOSIVE PRODUCTS SHALL BE MANAGED ON
- SITE THAT THEY ARE: I.) USED IN BOREHOLE 2.) RETURNED TO THE DELIVERY VEHICLE; OR 3.) PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.
- D. SPILLAGE AROUND THE BOREHOLE SHALL BE: I.) PLACED IN BOREHOLE; OR 2.) CLEANED UP AND RETURNED TO AN APPROPIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL.
- E. LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND NOT LEFT IN THE BLAST HOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.
- LOADING FOUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAIND AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT
- G. EXPLOSIVES SHALL BE LOADED IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION.

10.04 EXPLOSIVE SELECTION: A. APPROPIATE FOR SITE SITE CONDITIONS AND SAFE BLAST EXECUTION: AND

- B. HAVE THE APPROPIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT.
- 10.05 PREVENTION OF MISFIRES: A. INDUSTRY-STANDARD PRACTICES SHALL BE IMPLEMENTED TO PREVENT MISFIRES.
- 10.06 MUCK AND ROCK MANAGEMENT: A. FOR PURPOSES OF THIS PART, THE FOLLOWING DEFINITIONS APPLY: I.) "BLASTED MATERIAL" MEANS ALL OF THE EARTH MATERIAL LOOSENED AS A RESULT OF THE BLASTING
- 2.) "MUCK" MEANS THE BLASTED MATERIAL REMAINING AFTER THE ROCKS HAVE BEEN REMOVED: AND 3.) "ROCKS" MEANS THE LARGER PIECES OF BLASTED MATERIAL THAT ARE SEPARATED FROM THE MUCK FOR USE ELSEWHERE, INCLUDING FOR FEEDSTOCK OF A ROCK CRUSHING OPERATION.
- B. MUCK SHALL BE REMOVED FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.
- ROCKS SHALL BE MANAGED SO AS TO PREVENT WATER SUPPLY WELLS OR SURFACE WATERS FROM BEING CONTAMINATED BY
- <u>IO.07 SPILL PREVENTION MEASURES & MITIGATION:</u>
 A. FUEL AND OTHER REGULATED SUBSTANCES SHALL BE MANAGED AS REQUIRED BY Env-Wa 401.04.
- PERSONNEL WORKING AT THE BLAST SITE SHALL BE TRAINED IN HOW TO RESPOND TO A SPILL OF THE REGULATED SUBSTANCES BEING USED AT THE SITE.

10.08 FUELING & MAINTENANCE OF CONSTRUCTION

- A. IF ANY CONSTRUCTION EQUIPMENT, INCLUDING BUT NOT LIMITED TO EARTHMOVING. EXCAVATION, AND BORING EQUIPMENT, WILL BE FUELED FROM A TANK TRUCK OR OTHER CONTAINER THAT IS MOVED AROUND THE SITE, THE FOLLOWING SHALL APPLY: I.) PORTABLE CONTAINMENT EQUIPMENT THAT IS SIZED TO CONTAIN THE MOST LIKELY VOLUME OF FUEL TO BE SPILLED DURING A FUEL TRANSFER SHALL BE USED, WHERE THE MOST LIKELY VOLUME TO BE SPILLED IS DETERMINED BASED ON THE FUEL TRANSFER RATE, THE AMOUNT OF FUEL BEING TRANSFERRED, THE DISTANCE BETWEEN THE HOSE NOZZLE AND PUMP SHUT OFF SWITCH, AND THE RESPONSE TIME OR PERSONNEL AND EQUIPMENT
- 2.) THE CONTAINMENT EQUIPMENT SHALL BE POSITIONED TO CATCH ANY FUEL SPILLS DUE TO OVERFILLING THE EQUIPMENT AND ANY OTHER SPILLES THAT MIGHT OCCUR AT OR NEAR THE FUEL FILLER PORT TO THAT

AVAILABLE AT THE FACILITY:

- EQUIPMENT: 3.) THE TYPE OF CONTAINMENT EQUIPMENT USED AND ITS POSITIONING AND USE SHALL ACCOUNT FOR ALL OF THE DRIP POINTS ASSOCIATED WITH THE FUEL FILLING PORT AND THE HOSE FROM THE DELIVERY TRUCK: AND 4.) PERSONNEL SHALL NOT LEAVE THE IMMEDIATE AREA WHILE FUEL IS BEINGTRANSFERRED. TO ENSURE THAT ANY SPILLS WILL BE OF LIMITED VOLUME.
- B. IF THE SITE WILL HAVE A FIXED LOCATION FOR FUELING CONSTRUCTION EQUIPMENT, THE FOLLOWING SHALL APPLY:
- I.) ALL FUEL CONTAINERS, INCLUDING BUT NOT LIMITED TO SKID-MOUNTED TANKS, DRUMS, AND FIVE GALLON CANS, SHALL HAVE SECONDARY CONTAINMENT THAT - IS CAPABLE OF CONTAINING 110% OF THE VOLUME OF THE LARGEST FUEL STORAGE CONTAINER; AND
- HAS AN IMPERVIOUS FLOOR. 2.) SECONDARY CONTAINMENT FOR TANKS MAY COMPRISE A METAL, PLASTIC, POLYMER OR PRECAST CONCRETE VAULT PROVIDING 110% OF THE VOLUME OF THE LARGEST FUEL STORAGE CONTAINER:

(BLASTING NOTES CONTINUED) 3.) FOR FUEL CONTAINERS, SECONDARY CONTAINMENT MAY COMPRISE CONTAINMENT

4.) THE AREA WHERE FULE IS TRANSFERRED SHALL BE A FLAT, IMPERVIOUS AREA THAT: - IS ADJACENT TO THE FUEL CONTAINER(S): - EXTENDS BEYOND THE FULL REACH, OR

LENGTH, OF THE FUEL HOSE.

5.) SECONDARY CONTAINMENT AREAS MAY BE IN THE FORM OF A BASIN THAT IS: - SLOPED DOWN TO A CENTRAL LOW POINT OR BERMED ALONG THE PERIMETERS - LIED WITH A CONTINUOUS SHEET OF 20 MIL OR THICKER POLYMER MATERIAL OR APPROPIATE GEOMEMBRANE LINER: AND

BIORETENTION SOIL MEDIA (BSM):

- BACKFILLED WITH AT LEAST 6" OF SAND.

- BSM COMPONENTS SHALL BE MIXED THOROUGHLY AND UNIFORMLY IN BATCHES NOT TO EXCEED 20 CUBIC YARDS OR AT THE DISCRETION OF THE SUPERVISING ENGINEER. SOIL FILTER MEDIA SHALL BE PERMEABLE ENOUGH TO INSURE DRAINAGE OF THE STORMWATER PLANTER WITHIN 24 TO 48 HOURS MAXIMUM, NO OTHER MATERIALS OR SUBSTANCES THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS CAN BE MIXED WITHIN THE FILTER.
- . THE BSM SHALL MEET THE SOIL COMPOSITION CRITERIA LISTED BELOW AND SUBMITTED TO REVIEW ENGINEER FOR APPROVAL. A) 65% MEDIUM SAND.
 - B) 30% LOAM C) 5% WATER TREATMENT RESIDUALS D) 8-12% ORGANIC MATTER
- LOAM SHALL BE LANDSCAPE GRADE SOIL, DARK & RICH, WITH HIGH ORGANIC MATTER CONTENT. OFTEN REFFERED TO AS 'SUPER LOAM.' NOT TO BE CONFUSED WITH SCREENED TOPSOIL.
- 4. PROVIDE A SOIL TEST OF THE BIORETENTION SOIL FOR CONFORMANCE TO THE FOLLOWING CRITERIA
 - A) PH RANGE: 6.0-7.0. B) MAGNESIUM: MINIMUM 32 PPM. NOT TO EXCEED C) PHOSPHOROUS (P205): 40 PPM D) POTASSIUM (K20): MINIMUM 78 PPM. E) SOLUBLE SALTS: NOT TO EXCEED 500 PPM.
- 5. IF THE SOIL PH IS NOT WITHIN THE ACCEPTABLE RANGE, AMEND WITH LIME TO RAISE THE PH OR WITH IRON SULFATE TO LOWER THE PH, AS NECESSARY. ALL TESTING SHOULD BE PERFORMED BY THE SAME TESTING FACILITY TO MAINTAIN CONSISTENT RESULTS. SUBMIT THE SOIL SAMPLE RESULTS TO THE ENGINEER REVIEW AND APPROVAL PRIOR TO DELIVERY TO THE PROJECT SITE.
- 6. DO NOT MIX, DUMP OR STORE ANY OTHER MATERIALS OR SUBSTANCES THAT MAYBE HARMFUL TO PLANT GROWTH OR PROVE A HINDRANCE TO THE PLANTING MAINTENANCE OR OPERATIONS WITHIN THE BIORETENTION AREA. A) CONNECTIONS TO STORM DRAIN SYSTEM. B) UNDERDRAIN CLEANOUTS

<u>BIORETENTION/ISR CONSTRUCTION</u> <u>SEQUENCE:</u>

- THE FOLLOWING CONSTRUCTION SEQUENCE IS TO BE USED AS A GENERAL GUIDELINE, COORDINATE WITH THE OWNER, ENGINEERS, AND LANDSCAPE ARCHITECTS AND SUBMIT A PROPOSED CONSTRUCTION SEQUENCE FOR REVIEW AND
- APPROVAL PRIOR TO CONSTRUCTION. 2. CONDUCT A PRE-CONSTRUCTION MEETING.
- CHECK FOR EXISTING UTILITIES PRIOR TO ANY EXCAVATION.
- 4. CLEAR AND GRUB THE PROPOSED BIORETENTION
- ROUGH GRADE THE BIORETENTION AREA DURING GENERAL CONSTRUCTION. 6. EXCAVATE PRETREATMENT CELLS AND/OR

SEDIMENT FOREBAYS PRIOR TO BIORETENTION

CONSTRUCTION. 7. DO NOT CONSTRUCT THE BIORETENTION AREA UNTIL ALL DISTURBED AREAS WITHIN THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN

GRADED AND STABILIZED.

- 8. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS TO DIVERT STORMWATER AWAY FROM THE BIORETENTION AREA.
- EXCAVATE THE BIORETENTION FACILITY TO THE BOTTOM INVERT OF THE SYSTEM.
- IO. INSTALL THE FILTER FABRIC AND GEOMEMBRANE ALONG THE EXCAVATION SIDE WALLS.
- SEE NOTE (3) BELOW. 12. INSTALL THE OVERFLOW OUTLET STRUCTURE AS

ENGINEER FIELD VISIT AND REPORT REQUIRED

- SPECIFIED IN THE DRAWINGS. 13. INSTALL GEOMEMBRANE SEPARATING PEA GRAVEL FROM DRAINAGE STONE AS INDICATED ON DRAWINGS. ENGINEER FIELD VISIT AND REPORT REQUIRED PRIOR TO COVERING THE UNDERDRAIN. SEE NOTE (3) BELOW.
- 14. INSTALL PEA GRAVEL LAYER AS INDICATED ON DRAWINGS.
- 15. DELIVER APPROVED BIORETENTION SOIL AND STORE ON ADJACENT IMPERVIOUS AREA OR PLASTIC SHEETING.

CONSTRUCTION SEQUENCE NOTES (CONTINUED):

- 16. BACKFILL WITH APPROVED BIORETENTION SOIL TO THE DESIGN GRADE (UN-COMPACTED) AS INDICATED ON DRAWINGS. THE CONTRACTOR MUST SUBMIT A SOIL SAMPLE (I GALLON) TO THE ENGINEER PRIOR TO SOIL DELIVERY TO THE SITE.
- 17. STABILIZE ALL REMAINING DISTURBED AREAS AND SIDE SLOPES WITH SEEDING, HYDROSEEDING, AND/OR EROSION CONTROL BLANKETS AS INDICATED ON DRAWINGS.
- 18. INSTALL BIORETENTION PLANTINGS AS INDICATED ON DRAWINGS. DO NOT PLANT BEFORE THE REMAINING DISTURBED AREAS SURROUNDING THE FACILITY ARE STABILIZED.
- 19. CONDUCT FINAL CONSTRUCTION INSPECTION WITH ENGINEER. ENGINEER FIELD VISIT AND REPORT REQUIRED SEE NOTE (23) BELOW.
- 20. REMOVE REMAINING EROSION AND SEDIMENT CONTROLS ONLY AFTER SURROUNDING DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED.
- 21. SEE GENERAL CONSTRUCTION NOTES FOR OVERALL CONSTRUCTION SEQUENCE.
- 22. SEE GENERAL NOTES/SPECIFICATIONS/CONSTRUCTION DETAILS

FOR DETAILED CONSTRUCTION REQUIREMENTS.

23. MANDATORY NOTIFICATION/APPROVAL OF THE PROJECT ENGINEER IS REQUIRED PRIOR TO PROCEEDING WITH NEXT STAGE. CALL THE ENGINEER (WATERSTONE ENGINEERING) AT 603-686-2488.

> 3 JAN 6, 2020 FOR APPROVAL 2 NOV 5, 2019 FOR APPROVAL SEP 13, 2019 FOR APPROVAL **DESCRIPTION OF ISSUE** SS. I DATE DESIGN: RMR DRAWN: CHECKED: RMR CHECKED: BDS **EMANUE** 118 Portsmouth Avenue, A202

> > STRATHAM, NH 03885

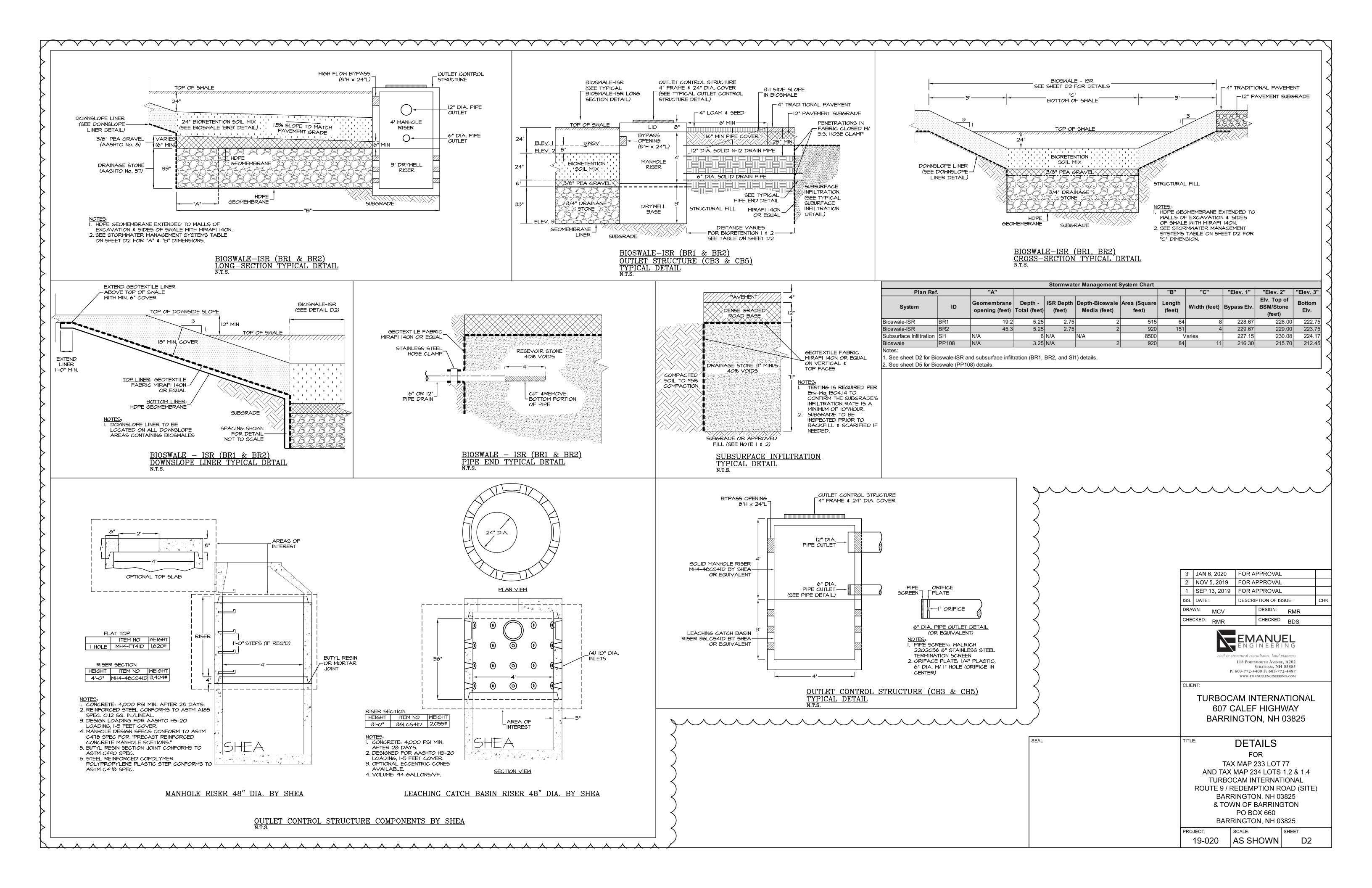
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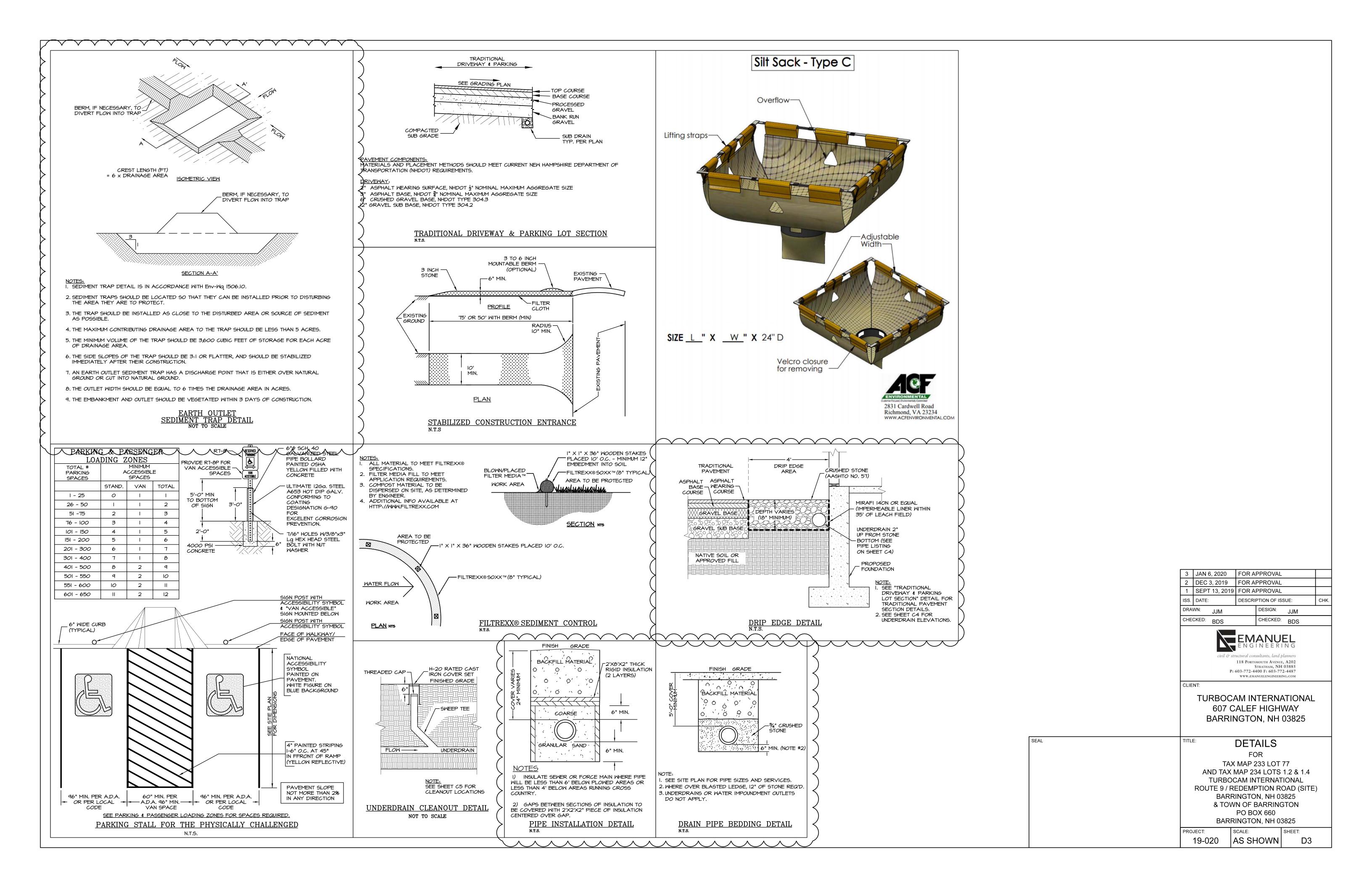
TURBOCAM INTERNATIONAL 607 CALEF HIGHWAY BARRINGTON, NH 03825

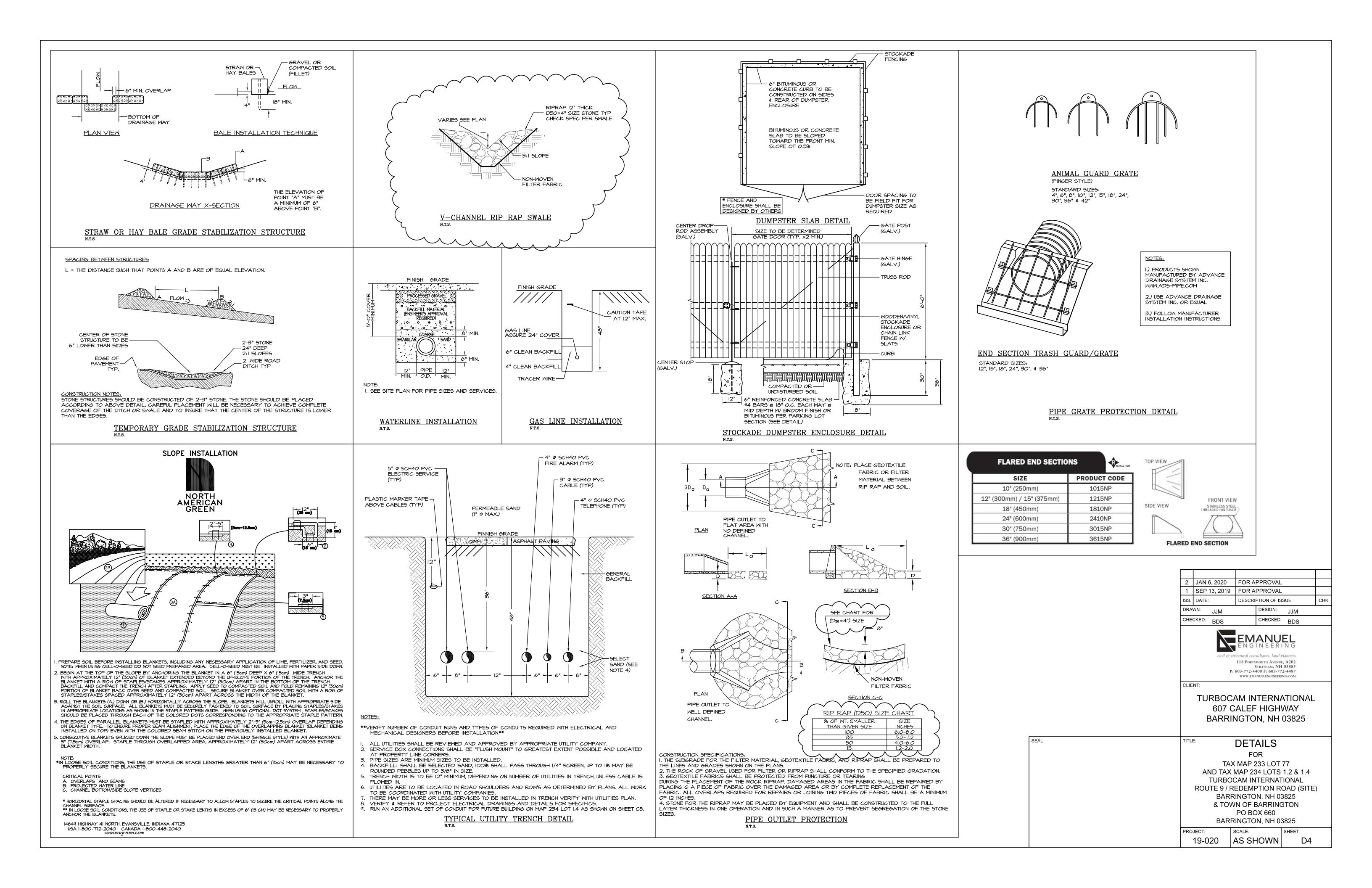
NOTES **TAX MAP 233 LOT 77** AND TAX MAP 234 LOTS 1.2 & 1.4 TURBOCAM INTERNATIONAL ROUTE 9 / REDEMPTION ROAD (SITE) BARRINGTON, NH 03825 & TOWN OF BARRINGTON PO BOX 660 BARRINGTON, NH 03825

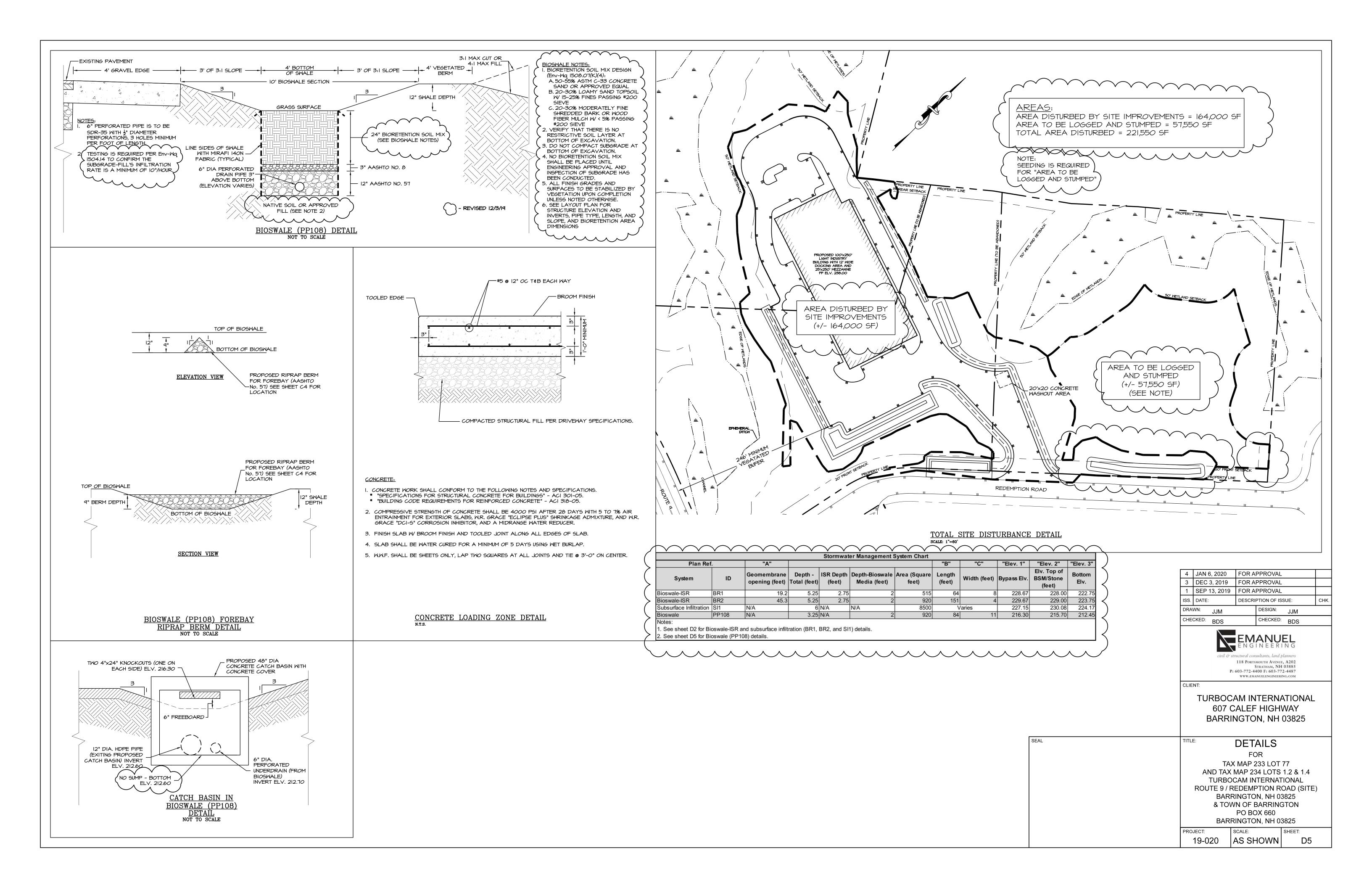
PROJECT: 19-020

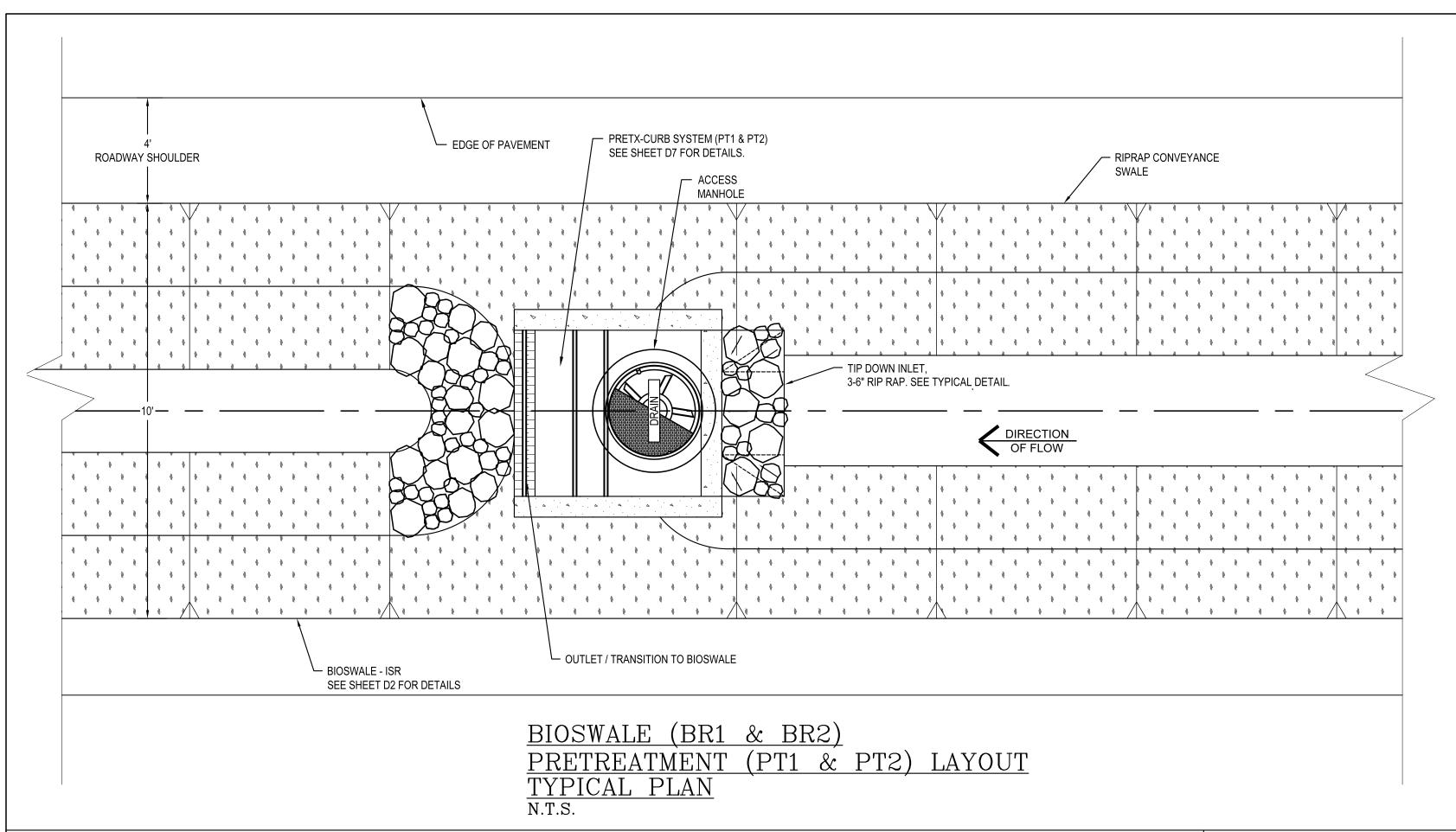
AS SHOWN

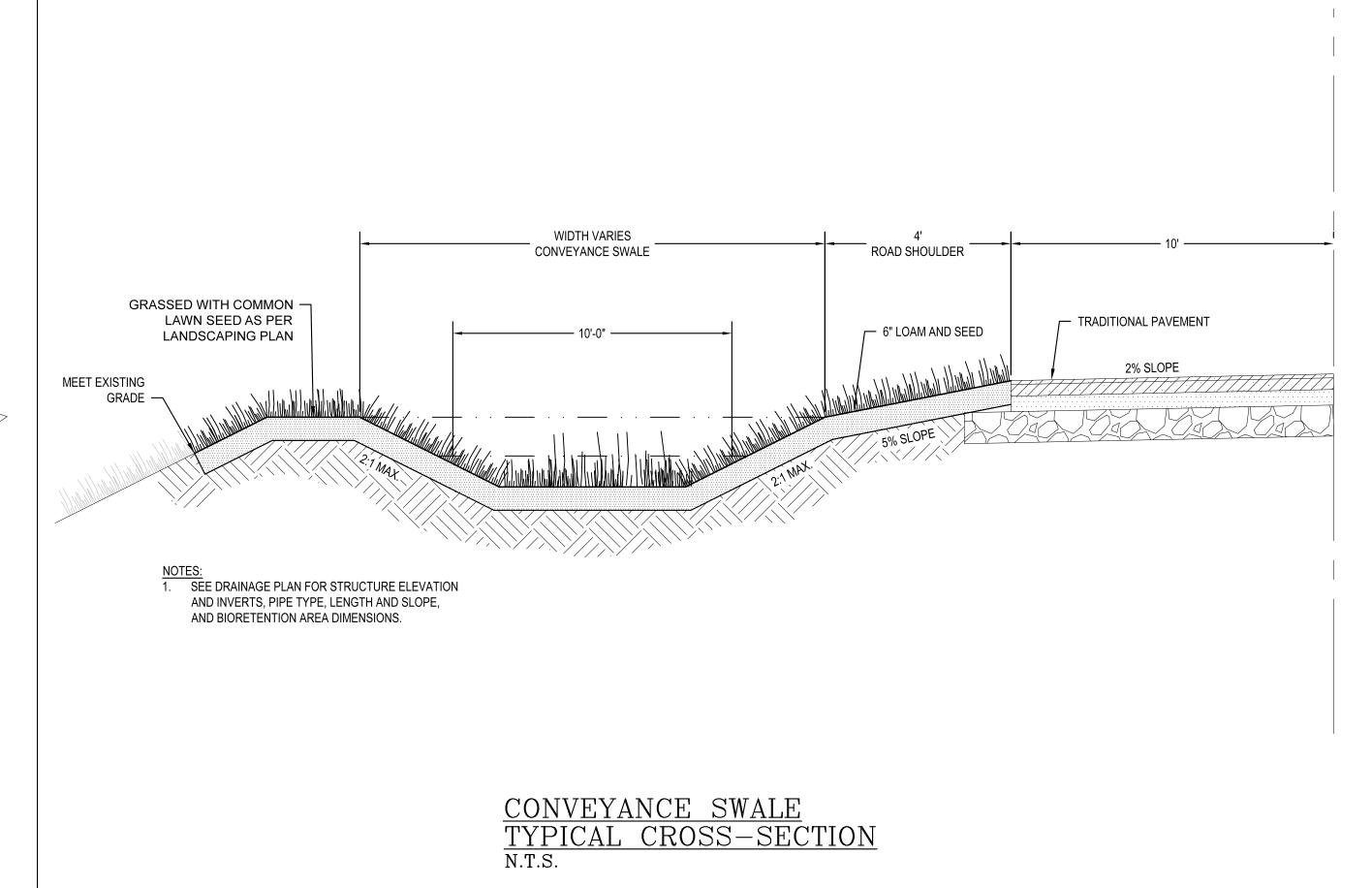


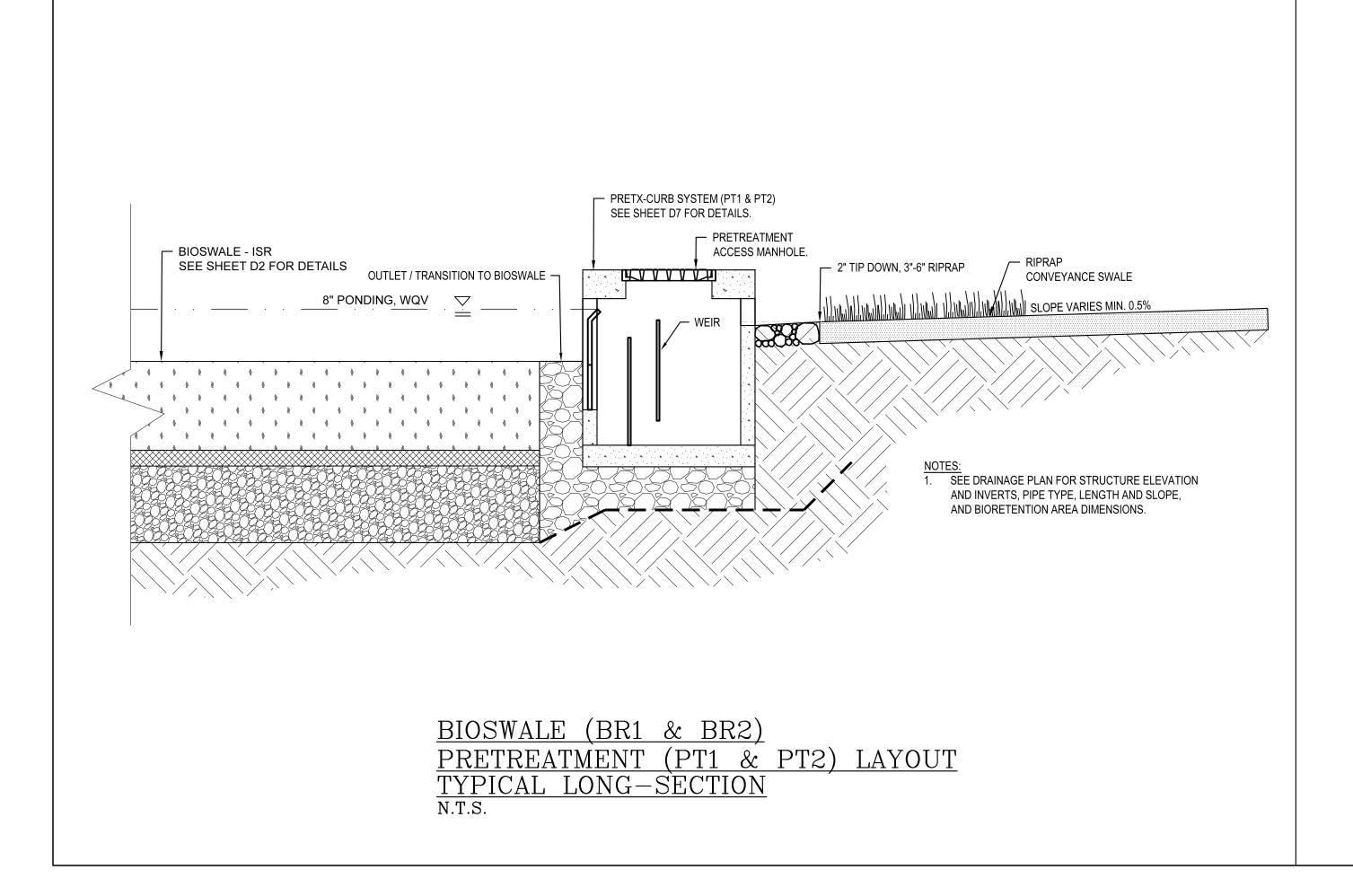














PRETX SPECIFICATIONS

- A.<u>GENERAL</u> PRETX SYSTEMS ARE A PRE-FILTER AND CRITICAL MAINTENANCE DEVICE THAT EXTENDS THE OPERATING LIFE AND REDUCES THE MAINTENANCE BURDEN OF BIORETENTION SYSTEMS, RAIN GARDENS, BIOSWALES AND OTHER TYPES OF SURFACE BEST MANAGEMENT PRACTICES BY FILTERING OUT SEDIMENT, TRASH AND DEBRIS AT
- B. <u>PRODUCTS</u> PRETX IS AVAILABLE IN 3 MODELS THAT MANAGE MOST BIORETENTIOIN INLET CONFIGURATIONS: CURB, DROP, AND INLINE.
- PRETX-CURB IS FOR EDGE OF PAVEMENT RUNOFF AT A CURB CUT IN LIEU OF A STONE SPREADER.
- PRETX-DROP IS FOR USE AS A DROP INLET CONFIGURATION ALONG A CURB LINE AND WOULD BE INSTALLED WITH A STANDARD DROP INLET GRATE.
- PRETX-INLINE IS FOR USE WITH SUBSURFACE INLET AND OUTLET PIPE. PRETX IS SIZED TO PRETREAT WATER QUALITY FLOWS AND BYPASS LARGER FLOWS THAT HAVE MINIMAL TRASH AND DEBRIS. PRETX CAN BE USED BOTH IN RETROFIT OR
- 6. ACCEPTABLE SYSTEM SUPPLIER: CONVERGENT WATER TECHNOLOGIES, INC. OR ITS AUTHORIZED VALUE-ADDED RESELLER
- (800) 711-5428 WWW.CONVERGENTWATER.COM

NEW INSTALLATIONS.

- SUBMIT PROPOSED LAYOUT DRAWINGS. DRAWINGS SHALL INCLUDE TYPICAL SECTION DETAILS ANNOTED WITH SYSTEM ELEVATIONS (E.G., RIM, PIPE INVERTS, OUTSIDE BOTTOM OF STRUCTURE, ETC.).
- SUBMIT MATERIAL CERTIFICATES FOR FRAMES AND COVERS ANY PROPOSED EQUAL ALTERNATE PRODUCT SUBSTITUION TO THIS SPECIFICATION MUST BE SUBMITTED FOR REVIEW AND APPROVED PRIOR TO BID OPENING.

- All PUBLIC STORM DRAINAGE SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND ACCORDING TO LOCAL MUNICIPAL REQ UIREME NTS.
- 2. All STORM DRAINAGE SYSTEM CONSTRUCTION IS SUBJECT TO INSPECTION AND APPROVAL BY THE PROJECT ENGINEER. 3. THE CONTRACTOR SHALL NOTIFYTHE PROJECT ENGINEER A MINIMUM OF TWO FULL
- BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTIO N. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND OBTAINING APPROVAL FROM DIG-SAFE AND DETERMINING THE LOCATION OF All UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION/ EXCAVATI ON AND SHALL NOTIFY
- THE PROJECT ENGINEER OF ANY POTENTIAL CONFLICTS. TO PROTECT STORMWATER FLOW CONTROL AND QUALITY TREATMENT FACILITIES FROM SEDIMENTATION, THEY SHALL BE CONNECTED TO THE STORM CONVEYANCE SYSTEM ONLY AFTER ALL SITE WORK, ROAD CONSTRUCTION, UTILITY WORK AND
- LANDSCAPING ARE IN PLACE IN ALL AREAS ABOVE AND UPSTREAM OF THE FACILITY. THE EXISTING STORM SEWER SYSTEM SHALL STAY ISOLATED FROM THE NEW SYSTEM UNTIL THE NEW SYSTEM IS CLEANED, AND APPROVED FOR USE. THERE SHALL BE NO DEBRIS IN THE LINES OR FURTHER CLEANING WIII BE REQUIRED PRIOR TO
- ACCEPTANCE. 7. PROVIDE A 1.5" MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR
- 8. THE OPENING SHALL BE MEASURED ATTHE TOP OF THE PRECAST BASE SECTION. 9. All PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED. IO. STANDARD CURB INLETS AND TIPDOWNS SHALL BE PRECAST CONCRETE OR ASPHALT.
- II. PIPE ENDS SHALL BE FLUSH WITH THE INNER WALL OR I" MAXIMUM INTRUSION. MASONRY. CINDER BLOCKS, OR SIMILIAR MATERIALS MAY BE USED TO ADJUST THE RISERS TO GRADE PRIOR TO GROUTING. 12. GROUTING SHALL BE SUFFICIENTTO PREVENT LEAKS BETWEEN THE PRECAST
- COMPONENTS OF THE COMPLETED STRUCTURE & SHALL BE PERFORMED INSIDE, BETWEEN & OUTSIDE OF All RISERS, JOINTS & PIPE PENETRATIONS. 13. MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M-199 UNLESS
- OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS. 14. All REINFORCED CAST IN PLACE CONCRETE SHALL BE CLASS 4000. All PRECAST CONCRETE SHALL BE CLASS 4000.
- 15. RECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
- 16. MATING SURFACES OF MANHOLE RINGS AND COVERSSHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITIONS.

E. CONSTRUCTION AND SEQUENCING

- A. VERIFY LAYOUT AND ORIENTATION OF PRE-TX SYSTEM AREA INCLUDING EDGE OF PAVEMENT, TIP DOWN, CURBS AND SIDEWALK, BIOFILTRATION SYSTEM, AND B. VERIFY EXCAVATION BASE IS READY TO RECEIVE WORK AND EXCAVATIONS,
- DIMENSIONS, AND ELEVATIONS ARE AS INDICATED ON DRAWINGS.

- A. CALL DIG SAFE AND RECEIVE APPROVAL BEFORE PERFORMING WORK. B. REQUEST UNDERGROUND UTILITIES TO BE LOCATED AND MARKED WITHIN AND SURROUNDING CONSTRUCTION AREAS.
- C. IDENTIFY REQUIRED LINES, LEVELS, CONTOURS, AND DATUM. D. CLEAR AND GRUB THE PROPOSED PRE-TX SYSTEM AREA.

3. EXCAVATION AND INSTALLATION

- A. THE FOLLOWING CONSTRUCTION SEQUENCE IS TO BE USED AS A GENERAL GUIDELINE. COORDINATE WITH THE OWNER, AND ENGINEERS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- B. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS TO DIVERT STORM WATER AWAY FROM THE PRE-TX SYSTEM AREA. C. EXCAVATE TO THE BOTTOM INVERT OF THE SYSTEM
- D. TO MINIMIZE COMPACTION OF ADJACENT BIOFILTRATION SYSTEMS, WORK
- EXCAVATORS OR BACKHOES FROM THE SIDES TO EXCAVATE THE PRE-TX SYSTEM AREA TO ITS APPROPRIATE DESIGN DEPTH AND DIMENSIONS.
- E. ROUGH GRADE THE PRE-TX SYSTEM AREA DURING GENERAL CONSTRUCTION. EXCAVATE THE PRE-TX SYSTEM FACILITIES TO WITHIN I FOOT OF STRUCTURE
- F. PLACE I FOOT BED OF COARSE STONE TO ELEVATION OF BASE OF STRUCTURE. G. ESTABLISH ELEVATIONS FOR ADJACENT CURBS, EDGE OF PAVEMENT AND TIP DOWN, SIDEWALK, PIPE INVERTS FOR INLETS AND OUTLETS AS INDICATED ON DRAWINGS.

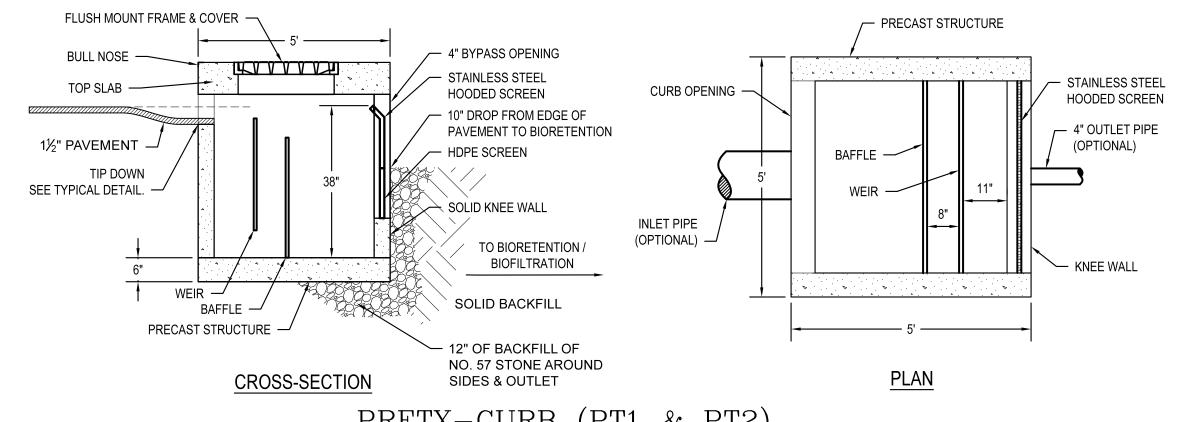
4. INSTALLATION

- A. PLACE THE PRECAST SYSTEM TO NECESSARY ELEVATION. B. VERIFY ELEVATIONS FOR ADJACENT CURBS, EDGE OF PAVEMENT, PAVEMENT GRADING FOR INLET GRATE FOR PRETX-DROP, SIDEWALK, PIPE INVERTS FOR INLETS AND OUTLETS, OUTLET INVERT FOR KNEE WALL.
- C. FOR PRETX-SURFACE:
- a. VERIFY ELEVATIONS FOR ADJACENT CURBS. b. VERIFY EDGE OF PAVEMENT TIP DOWN PAVEMENT GRADING FOR INLET GRATE. C. VERIFY CURB ELEVATION IN RELATION TO PAVEMENT AND TIP DOWN.
- d. VERIFY OUTLET INVERT FOR KNEE WALL IN RELATION TO FILTER MEDIA.
- D. FOR PRETX-DROP: a.VERIFY ALL INLET PIPES ENTER THE STRUCTURE UPSTREAM OF BAFFLE. b. VERIFY FRAME AND GRATE OFFSET ON INLET SIDE AND UPSTREAM OF BAFFLE. C. VERIFY CURB LOCATION WITH RESPECT TO FRAME AND GRATE ORIENTATION.
- E. INSTALL BAFFLES, WEIR, AND SCREENS AS INDICATED ON DRAWINGS. F. VERIFY MAINTENANCE ACCESS THROUGH GRATE OR COVER AND CLEARANCE FOR
- G.INSTALL TOP OF STRUCTURE LEVEL WITH ADJACENT CURB OR SIDEWALK AS PER MANUFACTURERS SPECIFICATIONS. ENGINEER FIELD VISIT REQUIRED PRIOR TO BACKFILLING.

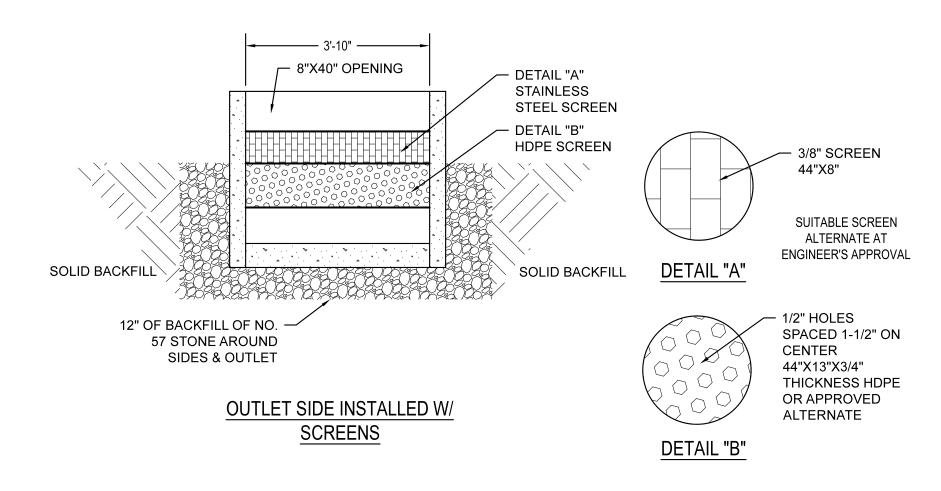
- A. BACKFILL WITH APPROVED SOIL AND STONE TO THE DESIGN GRADE AS SPECIFIED IN THE DRAWINGS.
- B. BACKFILL WITH 124 OF NO. 57 STONE AROUND REAR, LEFT, AND RIGHT SIDES TO LEVEL WITH TOP OF HDPE SCREEN.
- C. BACKFILL WITH BIORETENTION SOIL MIX BEYOND STONE BACKFILL TO EQUAL
- ELEVATION OF THE TOP OF HDPE SCREEN. D. DO NOT BACKFILL SOIL OR STONE AGAINST STAINLESS SCREEN.
- E. DO NOT COMPACT ADJACENT FILTRATION SYSTEM SOIL WITH MECHANICAL
- F. STABILIZE AII REMAINING DISTURBED AREAS AND SIDE SLOPES WITH SEEDING, HYDROSEEDING, AND/ OREROSION CONTROL BLANKETS AS INDICATED ON

A. AFTER COMPLETION OF THE WORK, REMOVE AND PROPERLY DISPOSE ALL DEBRIS, CONSTRUCTION MATERIA LS, RUBBISH, EXCESS SOIL, ETC., FROM THE PROJECT SITE. REPAIR PROMPTL Y ANY IDENTIFIED DEFICIENCIES AND LEAVE THE PROJECT SITE IN A CLEAN AND SATISFACTORY CONDITION.

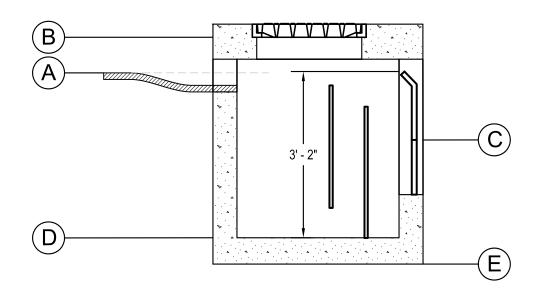
PRETX-CURB (PTI & PT2) DETAILS



PRETX-CURB (PT1 & PT2)
CATCH BASIN DETAIL - BY ACF

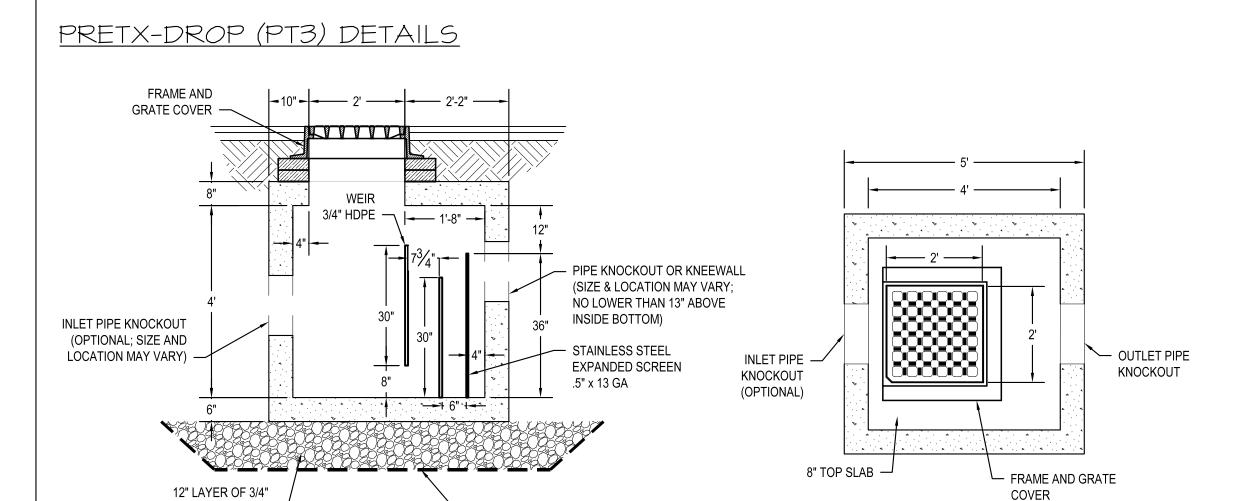


PRETX-CURB (PT1 & PT2) DETAIL



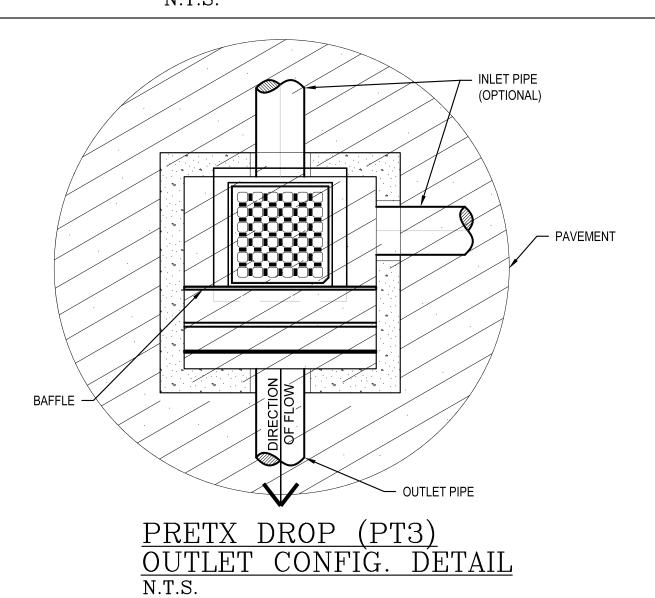
PRETX-CURB ELEVATION GUIDE

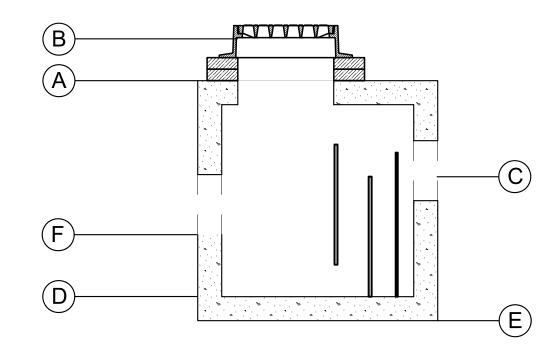
PRETX-CURB ELEVATION GUIDE					
POINT	DESCRIPTION	HEIGHT IN REFERENCE TO PT. A			
Α	EDGE OF PAVEMENT	O INCHES			
В	OUTSIDE TOP SLAB	8 INCHES			
C	TOP OF BIORETENTION	12 INCHES			
D	SUMP INVERT	36 INCHES			
E	OUTSIDE BOTTOM	42 INCHES			



REINFORCING GEOTEXTILE

CROSS SECTION PLAN PRETX-DROP (PT3)
CATCH BASIN DETAIL - BY ACF





PRETX-DROP ELEVATION GUIDE

PRETX-DROP ELEVATION GUIDE				
POINT	DESCRIPTION	HEIGHT IN REFERENCE TO PT. A		
Α	OUTSIDE TOP SLAB	0"		
В	EDGE OF PAVEMENT	5" MIN.		
С	PIPE INVERT	19" FOR 6" PIPE 21" FOR 8" PIPE 25.5" FOR 12" PIPE		
D	SUMP INVERT	36"		
E	OUTSIDE BOTTOM	42"		
F	OPTIONAL INLET PIPE KNOCKOUT	42"		

CRUSHED STONE

JAN 6. 2020 FOR APPROVAL DATE **DESCRIPTION OF ISSUE:** DESIGN: DRAWN: MCV CHECKED: RMR CHECKED: BDS ENGINEFRIN 118 PORTSMOUTH AVENUE, A202 STRATHAM, NH 03885 P: 603-772-4400 F: 603-772-4487 CLIENT:

> TURBOCAM INTERNATIONAL 607 CALEF HIGHWAY BARRINGTON, NH 03825

TITLE: PR	ETX DETA	ILS			
FOR					
TAX MAP 233 LOT 77					
AND TAX MAP 234 LOTS 1.2 & 1.4					
TURBOCAM INTERNATIONAL					
ROUTE 9 / REDEMPTION ROAD (SITE)					
BARRINGTON, NH 03825					
& TOWN OF BARRINGTON					
PO BOX 660					
BARRINGTON, NH 03825					
PROJECT:	SCALE:	SHEET:			
19-020	AS SHOWN	D7			