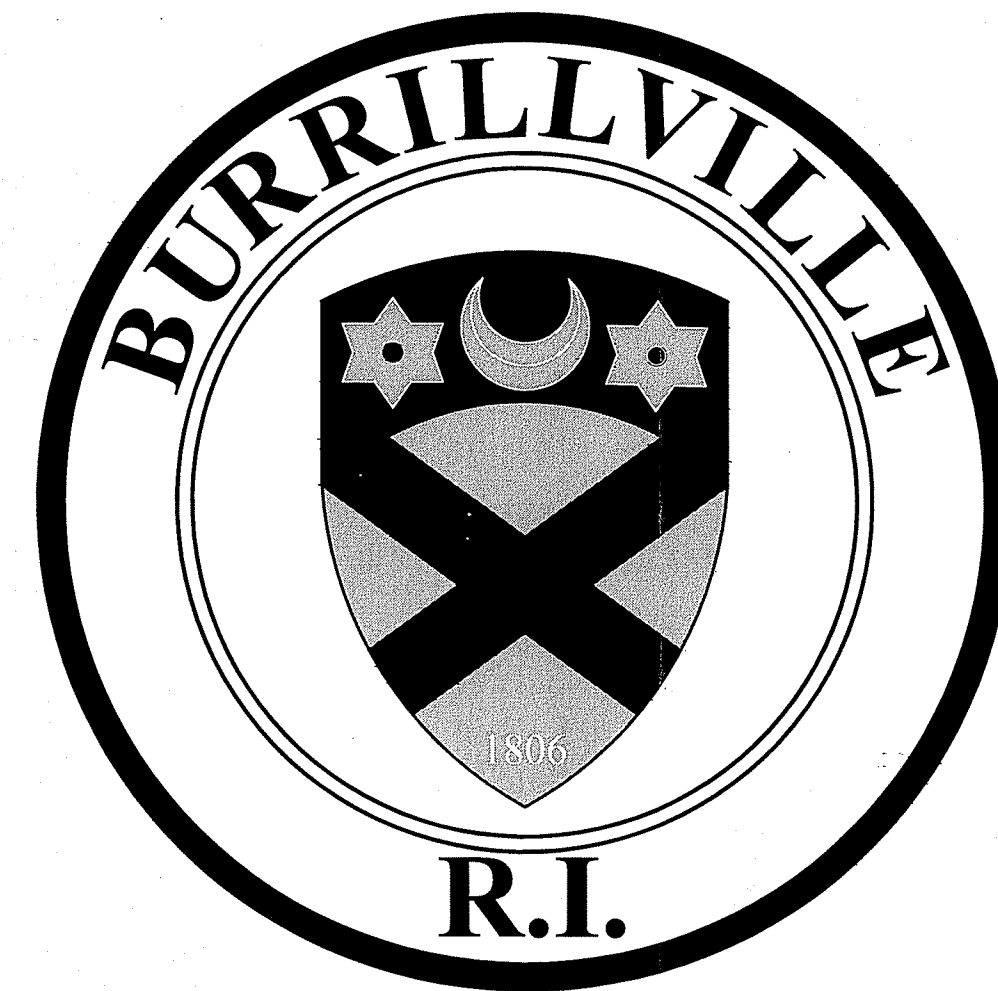
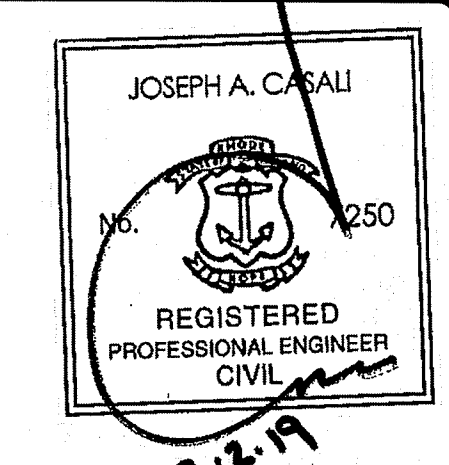
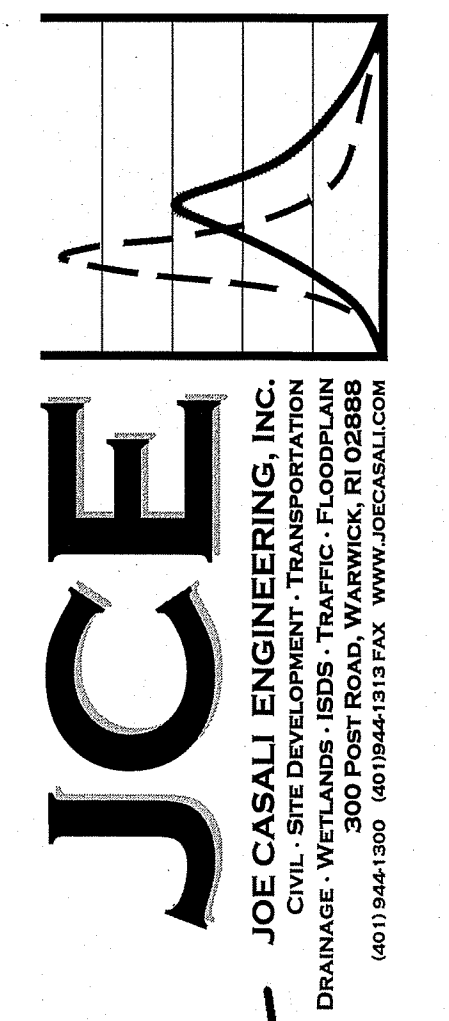


SITE IMPROVEMENT PLANS AND DETAILS FOR THE

# OAKLAND-MAPLEVILLE BIKE PATH

1145 VICTORY HIGHWAY

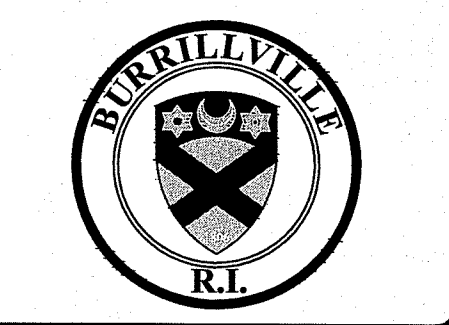
Environmental Management  
AUG 6 2019  
Office of Water Resources



**BURRILLVILLE, RHODE ISLAND**  
MICHAEL C. WOOD, TOWN MANAGER  
JEFFREY M. McCORMICK, P.E., DIRECTOR OF PUBLIC WORKS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED SEP 11 2019 FILE # 19-0156  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Wing L. Freeman*

**OAKLAND-MAPLEVILLE BIKE PATH**  
1145 VICTORY HIGHWAY  
BURRILLVILLE, RHODE ISLAND  
AP 179, LOTS 89 & 90



REVISIONS:

NO.	DATE	DESCRIPTION
1	8/6/19	RIDOT/RIDEM RTC

DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: MAY 2019  
PROJECT NO: 05-92ay

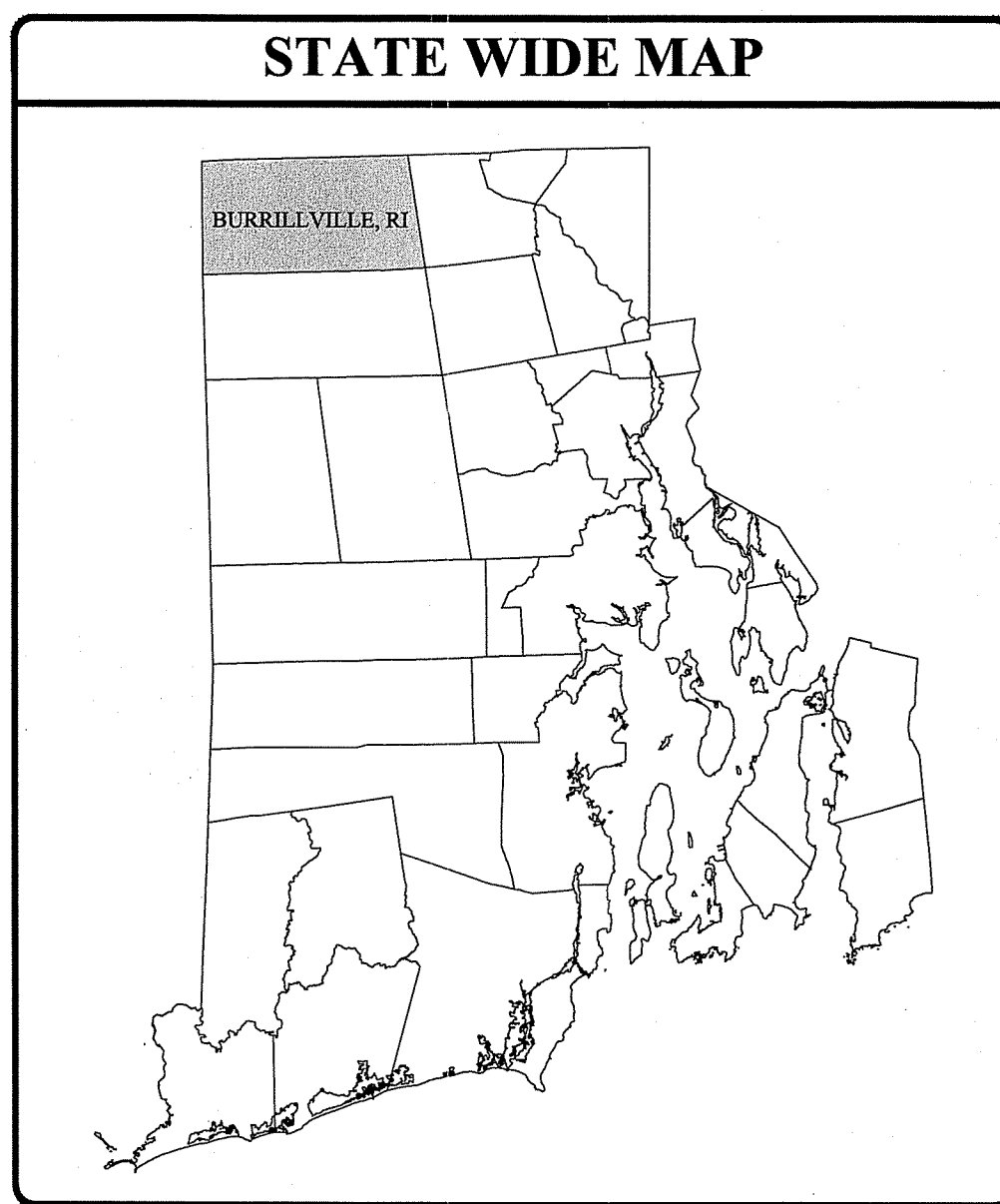
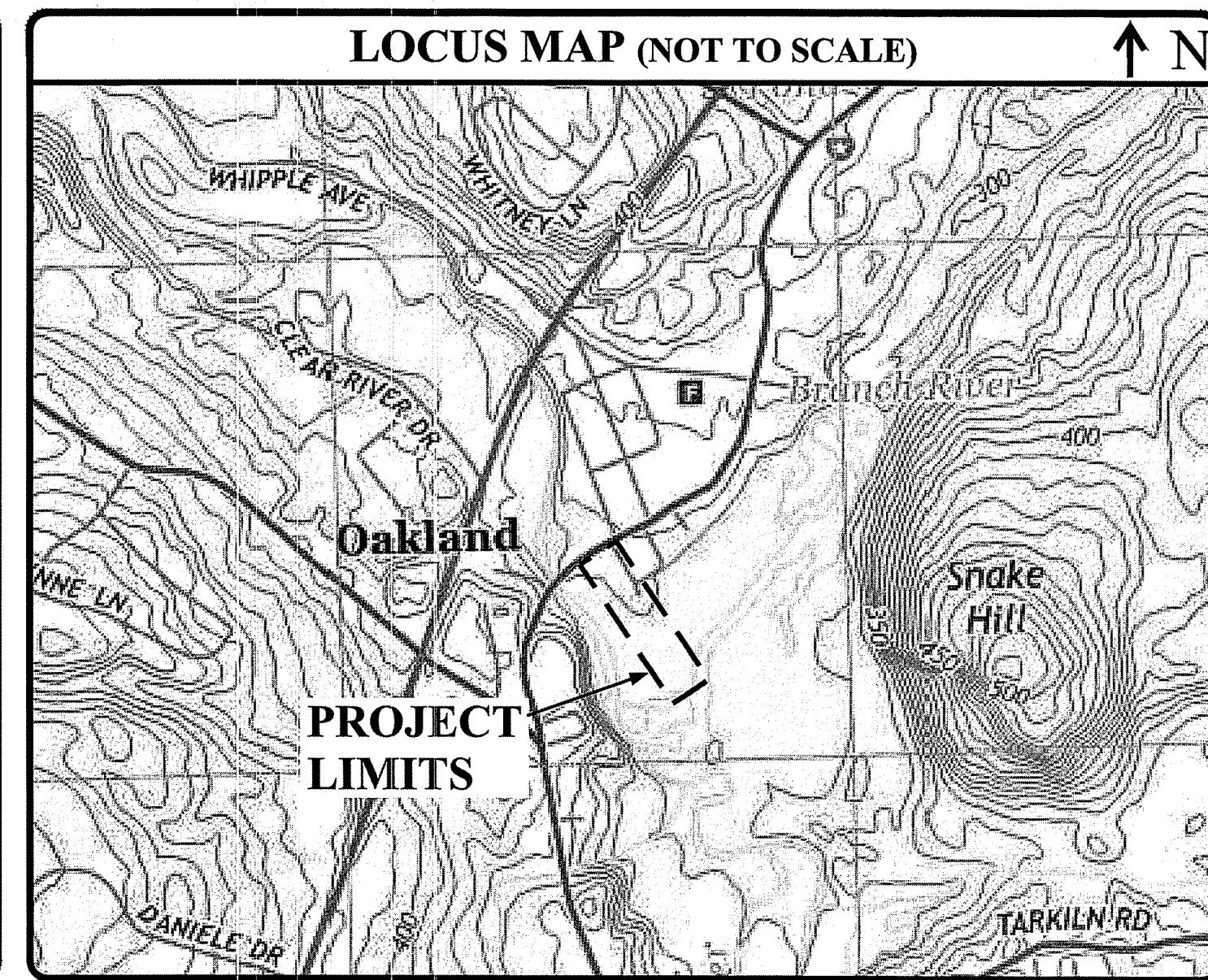
ISSUED FOR PERMITTING

**COVER SHEET**

**SHEET 1 OF 10**

C:\05-92\_Town of Burrillville\05-92ay Oakland-Mapleville Bike Path\ACAD\Oakland-Mapleville Bike Path [PERMIT SET Rev. 1].dwg Aug. 05, 2019 2:49pm

PROJECT TEAM	
<b>OWNER:</b>	TOWN OF BURRILLVILLE ATTN: JEFF M. McCORMICK, P.E., DPW DIRECTOR 105 HARRISVILLE MAIN STREET BURRILLVILLE, RI 02830 PHONE: 401-568-4440 FAX: 401-568-9469
<b>CIVIL ENGINEER:</b>	JOE CASALI ENGINEERING, INC. 300 POST ROAD WARWICK, RI 02888 PHONE: 401-944-1300 FAX: 401-944-1313
<b>ENVIRONMENTAL ENGINEER:</b>	LAKE SHORE ENVIRONMENTAL, INC. 19 NATE WHIPPLE HWY, #23 CUMBERLAND, RI 02864 PHONE: 401-658-1880
<b>SURVEYOR:</b>	INTERNATIONAL MAPPING & SURVEYING, INC. 19 INDUSTRIAL DRIVE SMITHFIELD, RI 02917 PHONE: 401-232-2620



**INDEX OF DRAWINGS**

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1	COVER SHEET
2	GENERAL NOTES & LEGEND
3	SITE PREPARATION PLAN
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5	GRADING AND DRAINAGE PLAN
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8	SITE DETAILS I
9	SITE DETAILS II
10	SUBSURFACE EXPLORATION LOGS
R1	BOUNDARY AND TOPOGRAPHIC SURVEY PLAN, PREPARED BY INTERNATIONAL MAPPING & SURVEYING CORP., INC., DATED JANUARY 2017.

**GENERAL NOTES:**

- CLASS I BOUNDARY AND CLASS III TOPOGRAPHIC SURVEY COMPLETED IN FEBRUARY 2018 BY INTERNATIONAL MAPPING & SURVEYING CORP., INC., SMITHFIELD, RI (REFERENCE PLAN R1).
  - THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
- SITE NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS AT NO ADDITIONAL COST TO THE TOWN.
  - STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
  - ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
  - THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR OR A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.
  - ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
  - WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN AT NO ADDITIONAL COST TO THE OWNER.
  - ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR TOWN.
  - THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION.
  - THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
  - ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED. REFER TO TRAFFIC MANAGEMENT PLANS.
  - THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAYS WORK.
  - WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
  - ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.
  - ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
  - ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, SIDEWALK, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2004 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).

**MISCELLANEOUS UTILITY NOTES:**

- PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- THE UTILITY PLAN DOES NOT DEPICT THE NECESSARY ELECTRICAL CONDUIT/WIRING TO SERVICE THE PROPOSED LIGHTING, WHICH WILL BE PERFORMED BY THE CONTRACTOR FOR NO ADDITIONAL COST.
- OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THEIR OPERATIONS.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.
- EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVEMENT OVERLAY AREAS.

**LAYOUT NOTE:**

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

**MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DIVIDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1988 EDITION, INCLUDING REVISION 3, SEPTEMBER 3, 1993 AND SUBSEQUENT ADDENDA.
  - SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE RIDOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

**BMP MAINTENANCE SCHEDULE:**

- ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
  - MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS ALL PIPES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
  - INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
- UPON COMPLETION OF THE PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
- AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE OWNER OR ENGINEER, ALL MAINTENANCE OF THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF THE TOWN OR THEIR APPROVED AGENTS.
- AFTER CONSTRUCTION, STORMWATER BMPs SHALL BE INSPECTED AND MAINTAINED BY THE OWNER AS FOLLOWS:
  - PRE-TREATMENT SEDIMENT FOREBAYS**
    - AFTER CONSTRUCTION, THE SEDIMENT FOREBAY SHALL BE INSPECTED AND CLEANED WHEN SEDIMENT BUILD UP IS IN EXCESS OF 6" OR 25% OF THE SEDIMENT STORAGE VOLUME.
  - SAND FILTER SYSTEMS:**
    - DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION, THE SAND FILTER SHALL BE INSPECTED AFTER THE FIRST TWO RAINFALL EVENTS OF AT LEAST 1.0 INCH TO ENSURE THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER INSPECTIONS SHALL BE CONSTRUCTED ON AN ANNUAL BASIS AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO 2 INCHES.
    - SILT AND SEDIMENT SHALL BE REMOVED FROM THE FILTER BED WHEN THE ACCUMULATION EXCEEDS ONE INCH. WHEN THE FILTERING CAPACITY OF THE SAND FILTER DIMINISHES SUBSTANTIALLY (I.E. WHEN WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 48 HOURS), THE TOP FEW INCHES OF DISCOLORED IN AN ACCEPTANCE MANNER AT AN APPROVED AND PERMITTED LOCATION.

**DRAINAGE SYSTEM NOTES:**

- ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES.

**SOIL EROSION AND SEDIMENTATION CONTROL NOTES**

- THE SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.
- THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
- ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED HAYBALES (R.I. STD. 9.8.0) DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORM WATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED HAYBALE WITH SILT FENCE (R.I. STD. 9.3.0) AND STAKED HAYBALE WITH SILT FENCE SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEANED AND FLUSHED.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.
- ALL SILT FENCE, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
- THE SILT FENCE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY SILT FENCE AS NEEDED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
- ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", UPDATED 2016.

**PERMANENT WELL ABANDONMENT PROCEDURE:**

- THE WELL SHALL BE PLUGGED TO PREVENT THE ENTRANCE OF SURFACE WATER, CIRCULATION OF WATER BETWEEN OR AMONG PRODUCING ZONES, OR ANY OTHER PROCESS RESULTING IN THE CONTAMINATION OR POLLUTION OF GROUNDWATER RESOURCES.
- THE WELL SHALL BE SEALED WITH A WATERTIGHT CAP OR SEAL.
- THE WELL SHALL BE CHLORINATED PRIOR TO ABANDONMENT USING A CHLORINE SOLUTION WITH A MINIMUM CONCENTRATION OF ONE HUNDRED FIFTY PARTS PER MILLION (150 PPM) OF RESIDUAL CHLORINE.
- THE WELL SHALL BE CHECKED FROM LAND SURFACE TO THE ENTIRE DEPTH OF THE WELL BEFORE IT IS SEALED, TO ENSURE AGAINST THE PRESENCE OF ANY OBSTRUCTION THAT WILL INTERFERE WITH SEALING OPERATIONS.
- ALL CASING AND SCREEN MATERIALS THAT HAVE SALVAGE VALUE MAY BE REMOVED BY THE CONTRACTOR.
- THE WELL BORE SHALL BE FILLED AND SEALED WITH ANY OF THE FOLLOWING MATERIALS: HEAT CEMENT GROUT, OR SAND CLAY OR BENTONITE CEMENT GROUT.
- THE GROUT MATERIAL SHALL BE PLACED THROUGH A PIPE EXTENDING TO THE BOTTOM OF THE WELL, WHICH SHALL BE RAISED AS THE WELL IS FILLED.
- ANY WELL CONSTRUCTED IN A CONSOLIDATED ROCK FORMATION, MAY BE FILLED WITH FINE SAND IN THE ZONE OR ZONES OF CONSOLIDATED ROCK BUT CANNOT ALLOW THE CIRCULATION OF WATER BETWEEN OR AMONG PRODUCING ZONES. THE TOP OF THE SAND FILL SHALL BE AT LEAST TEN(10) FEET BELOW THE TOP OF THE CONSOLIDATED ROCK, AND THE REMAINING SPACE WITH THE MATERIALS SPECIFIED IN SUBSECTION F (F) OF THE RULES AND REGULATIONS GOVERNING THE ENFORCEMENT OF CHAPTER 46-13.2 RELATING TO THE DRILLING OF DRINKING WATER WELLS.
- ANY TEST WELL OR BORE SHALL BE ABANDONED IN SUCH A MANNER THAT IT DOES NOT BECOME A CHANNEL FOR THE VERTICAL MOVEMENT OF WATER OR OTHER SUBSTANCE TO THE POTABLE GROUNDWATER RESOURCE.
- UPON COMPLETION OF ABANDONMENT OF THE WELL, THE TOP OF THE CASING OR GROUT MATERIAL SHALL BE TERMINATED AT LEAST FOUR (4) FEET BELOW THE GROUND SURFACE.
- PLUGGING AND ABANDONING OF A WELL TO BE ABANDONED SHALL BE PERFORMED ONLY BY A LICENSED WELL DRILLER.

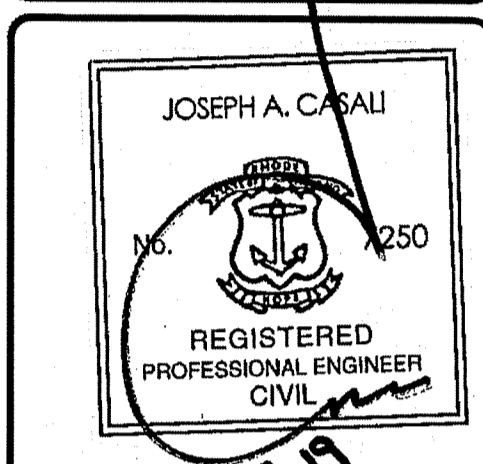
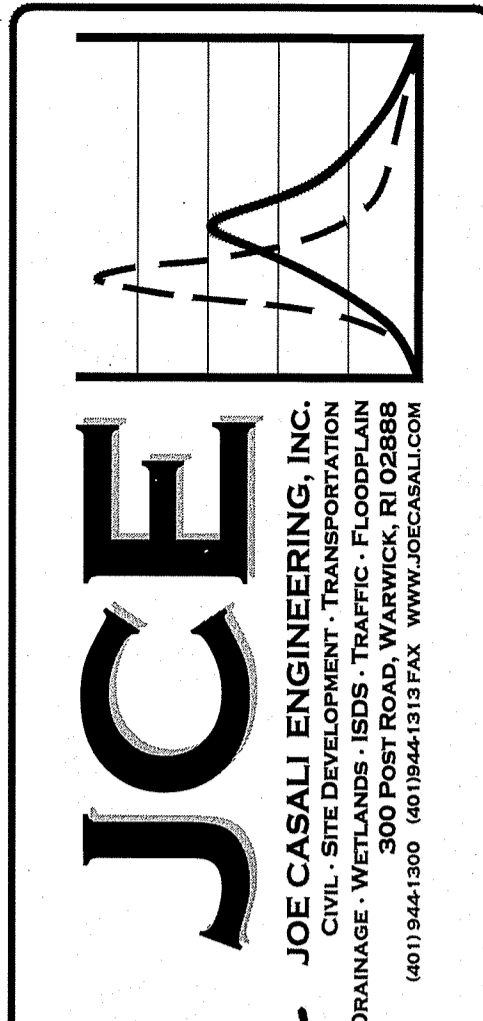
**LEGEND**

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- ABUTTING PROPERTY LINE
- BUILDING SETBACK LINE
- WETLAND EDGE
- △ WF WETLAND FLAG
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- 200' RIVERBANK WETLAND
- 100 --- EXISTING CONTOUR
- 100 --- PROPOSED CONTOUR
- --- IRON PIN
- --- DRILL HOLE
- --- CONCRETE BOUND
- EXISTING CURB
- GUARD RAIL
- D --- DRAIN LINE
- ⊙ --- DRAINAGE MANHOLE
- ⊙ --- CATCH BASIN
- --- UTILITY POLE
- OW --- OVERHEAD WIRES
- UG --- UNDERGROUND ELECTRIC
- VER --- VERIZON LINE
- W --- WATER LINE
- ⊙ --- WATER SHUT OFF VALVE
- ⊙ --- WELL
- S --- SEWER
- N/F --- NOW OR FORMERLY
- EXISTING TREE LINE (APPROXIMATE)
- HAY BALES
- LOD --- LIMIT OF DISTURBANCE
- TP --- SOIL EVALUATION
- R&R --- REMOVE & RESET
- R&D --- REMOVE & DISPOSE
- R&S --- REMOVE & STOCKPILE

Environmental Management

AUG 6 2019

Office of Water Resources



**OAKLAND-MAPLEVILLE BIKE PATH**  
**1145 VICTORY HIGHWAY**  
**BURRILLVILLE, RHODE ISLAND**  
**AP 179, LOTS 89 & 90**



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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*Armagh Freeman*

**REVISIONS:**

NO.	DATE	DESCRIPTION
1	8/6/19	RIDOT/RIDEM RTC

DESIGNED BY:	DRD
DRAWN BY:	SD/SEP
CHECKED BY:	JAC
DATE:	MAY 2019
PROJECT NO.:	05-922y

ISSUED FOR PERMITTING

**GENERAL NOTES & LEGEND**

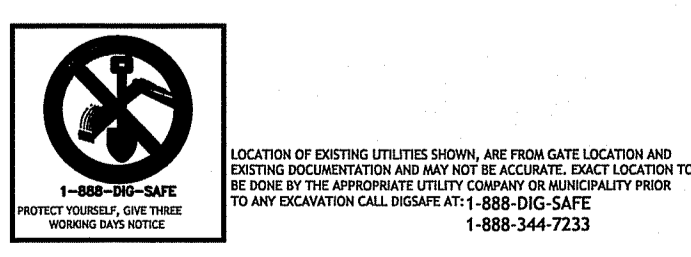
**SHEET 2 OF 10**



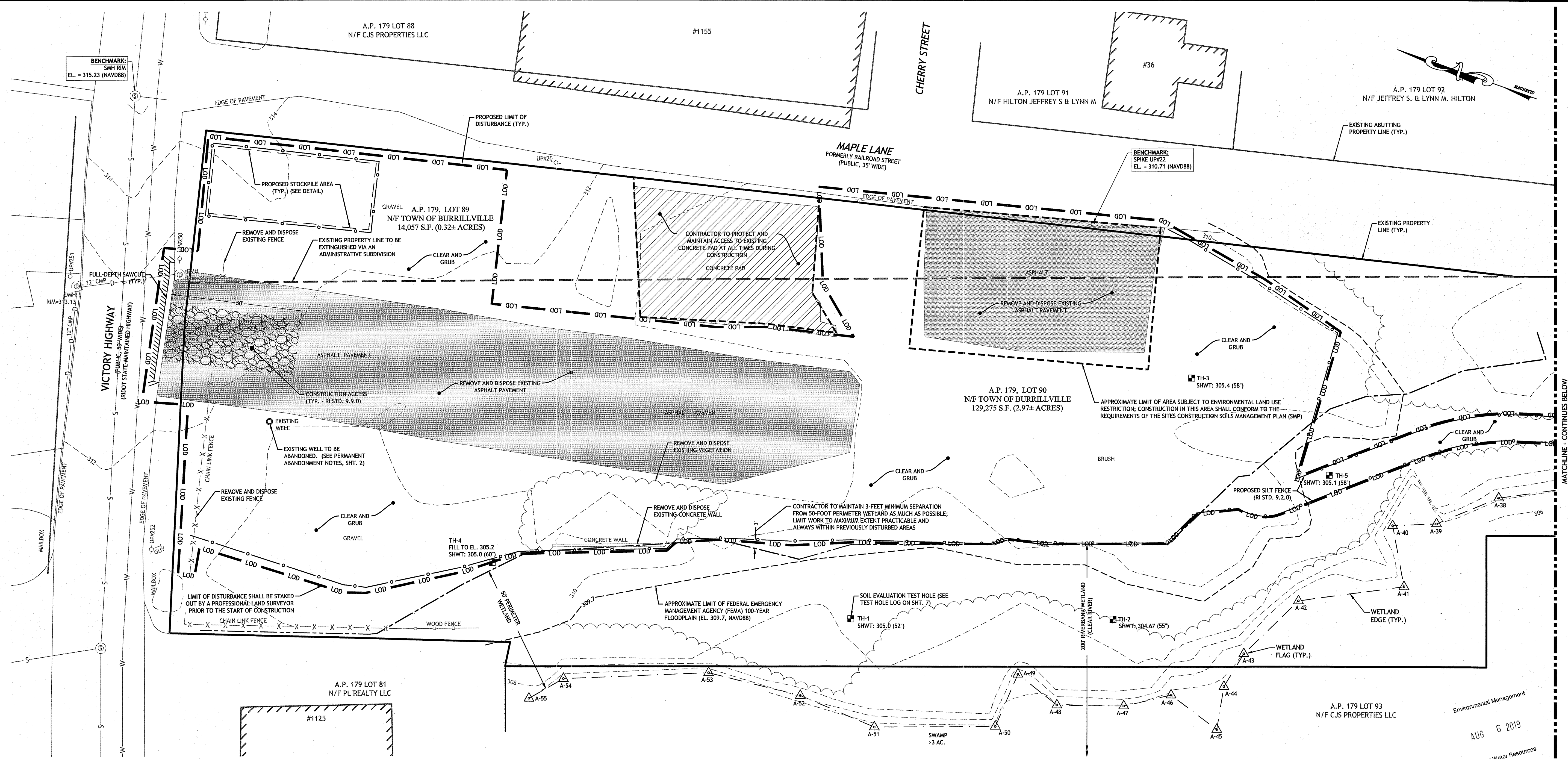
**KEY PLAN**

SCALE: 1 INCH = 80 FEET

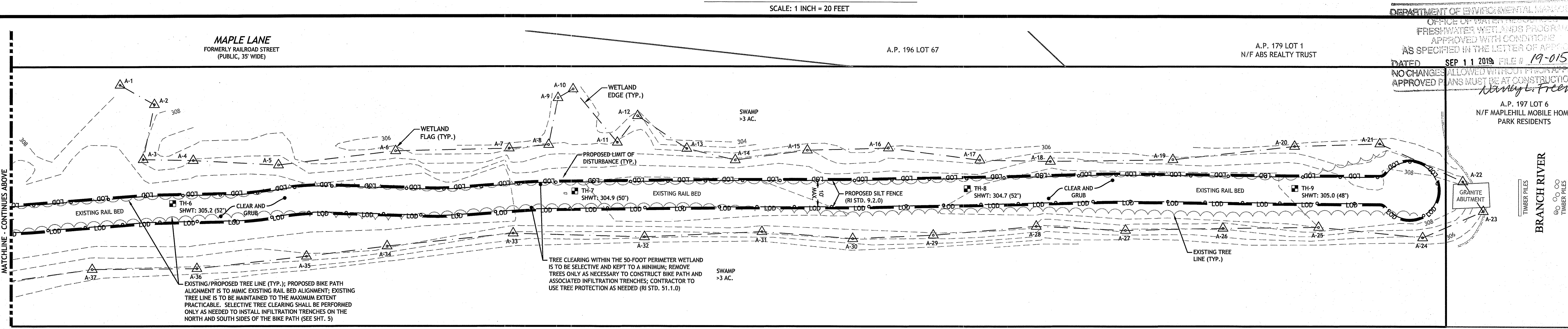
05-05-92 Town of Burrillville 05-922y Oakland-Mapleville Bike Path (ACAD) Oakland-Mapleville Bike Path (REBMIT SET Rev. 1) Log# Aug. 05, 2019 2:49pm



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**SITE PREPARATION PLAN: AREA 1**  
SCALE: 1 INCH = 20 FEET



**SITE PREPARATION PLAN: AREA 2**  
SCALE: 1 INCH = 20 FEET

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WETLANDS  
FRESHWATER WETLANDS PROGRAM  
AS SPECIFIED IN THE LETTER OF APPROVAL  
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*Abby L. Freeman*

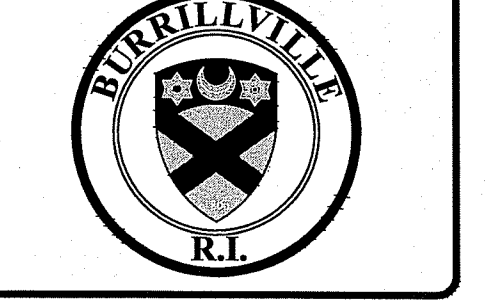
Environmental Management  
AUG 6 2019  
Office of Water Resources

SCALE (FEET)  
0 10 20 40 80  
1 INCH = 20 FT

**JCE**  
JOE CASALI ENGINEERING, INC.  
DRAINAGE, WETLANDS, EROSION CONTROL, TRAFFIC, FLOODPLAIN  
300 POST ROAD, WARWICK, RI 02888  
(401) 944-1300 (401) 944-1313 FAX WWW.JOECASALI.COM

JOSEPH A. CASALI  
No. 250  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

**OAKLAND-MAPLEVILLE BIKE PATH**  
1145 VICTORY HIGHWAY  
BURRILLVILLE, RHODE ISLAND  
AP 179, LOTS 89 & 90



REVISIONS:

NO.	DATE	DESCRIPTION
1	8/6/19	RIDOT/RIDEM RTC

DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: MAY 2019  
PROJECT NO: 05-92ay

ISSUED FOR PERMITTING

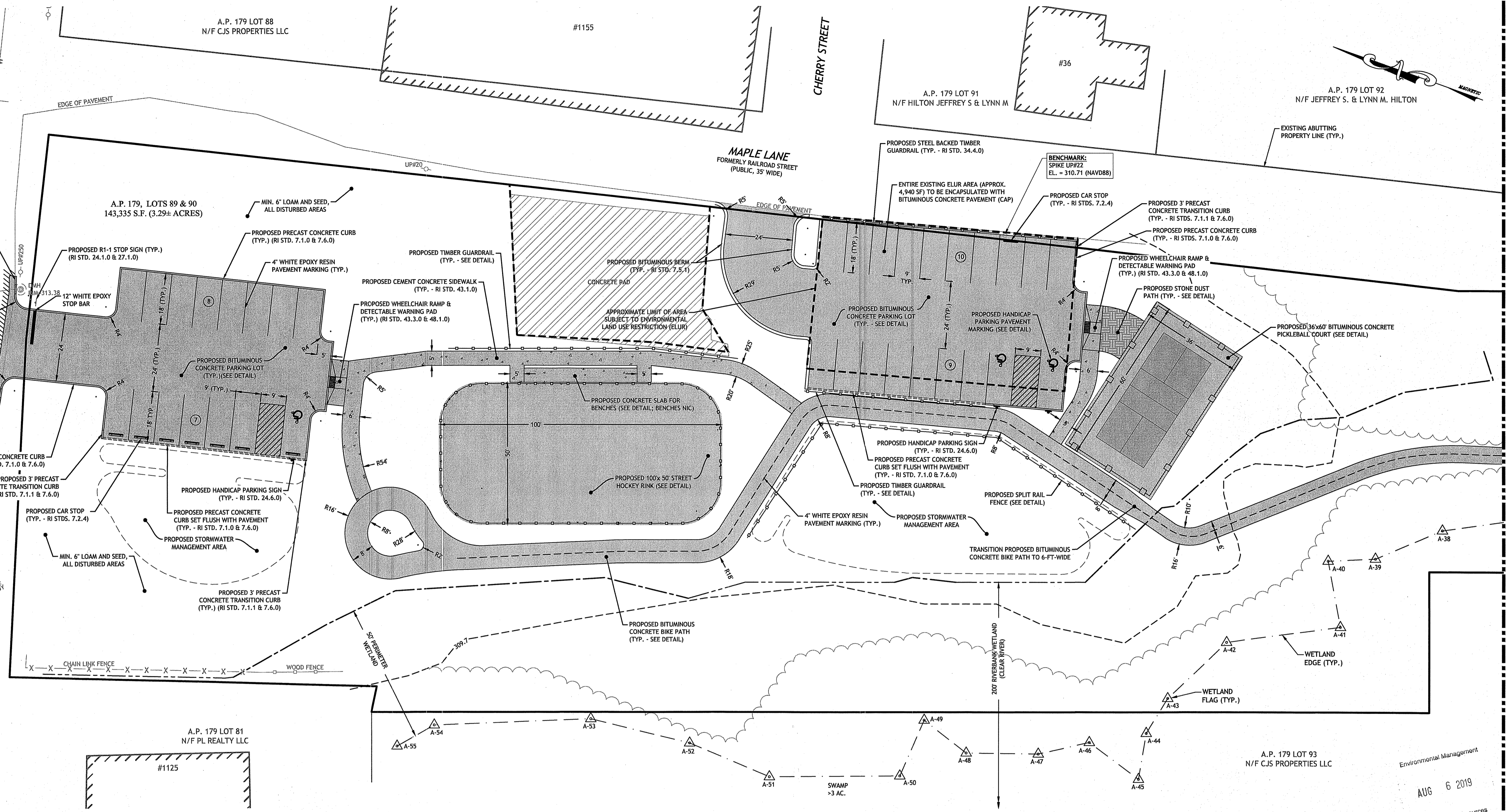
**SITE PREPARATION PLAN**

**SHEET 3 OF 10**

1-800-000-SAFE  
NATIONAL HAZARDOUS WASTE INFORMATION CENTER  
TO ANY EMERGENCY CALL DIAL 911-888-0100-SAFE  
1-888-344-7233

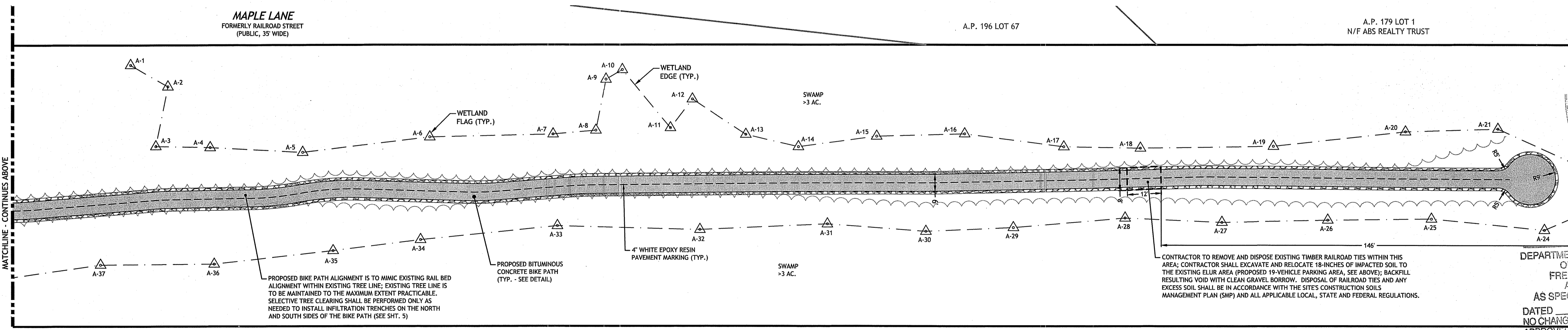
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BENCHMARK  
SMH RIM  
EL. = 315.23 (NAVDB88)



SITE PLAN: AREA 1  
SCALE: 1 INCH = 20 FEET

Environmental Management  
AUG 6 2019  
Office of Water Resources

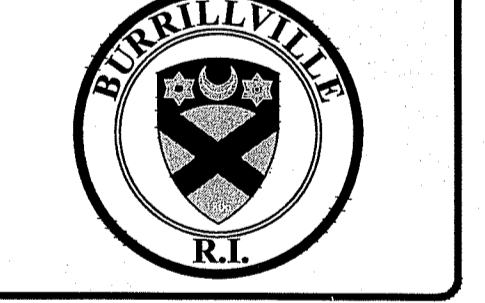


SITE PLAN: AREA 2  
SCALE: 1 INCH = 20 FEET

**JCE**  
JOE CASALI ENGINEERING, INC.  
CIVIL, SURVEYING, ENVIRONMENTAL, TRAFFIC  
DRAINAGE, WETLANDS, ISDS, TRAFFIC, FLOODPLAIN  
300 POST ROAD, WARWICK, RI 02888  
401.844.1300 401.844.1313 FAX WWW.JCEONLINE.COM

JOSEPH A. CASALI  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
No. 250

**OAKLAND-MAPLEVILLE BIKE PATH**  
1145 VICTORY HIGHWAY  
BURRILLVILLE, RHODE ISLAND  
AP 179, LOTS 89 & 90



REVISIONS:

NO.	DATE	DESCRIPTION
1	8/6/19	RIDOT/RIDEM RTC

DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: MAY 2019  
PROJECT NO: 05-92ay

ISSUED FOR PERMITTING

**SITE PLAN**

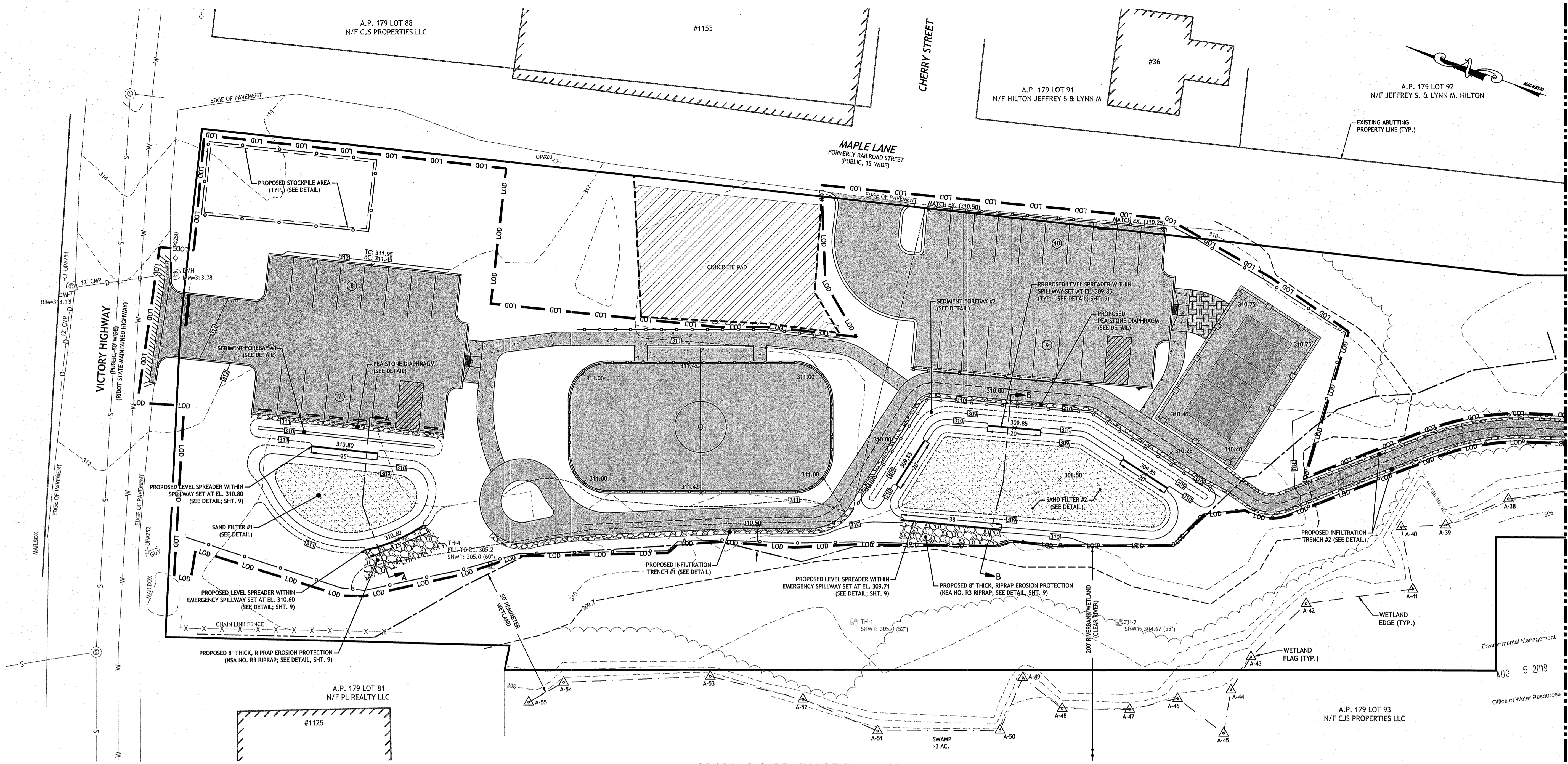
**SHEET 4 OF 10**

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED SEP 11 2019 FILE # 19-0156  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Janey to Prelma*

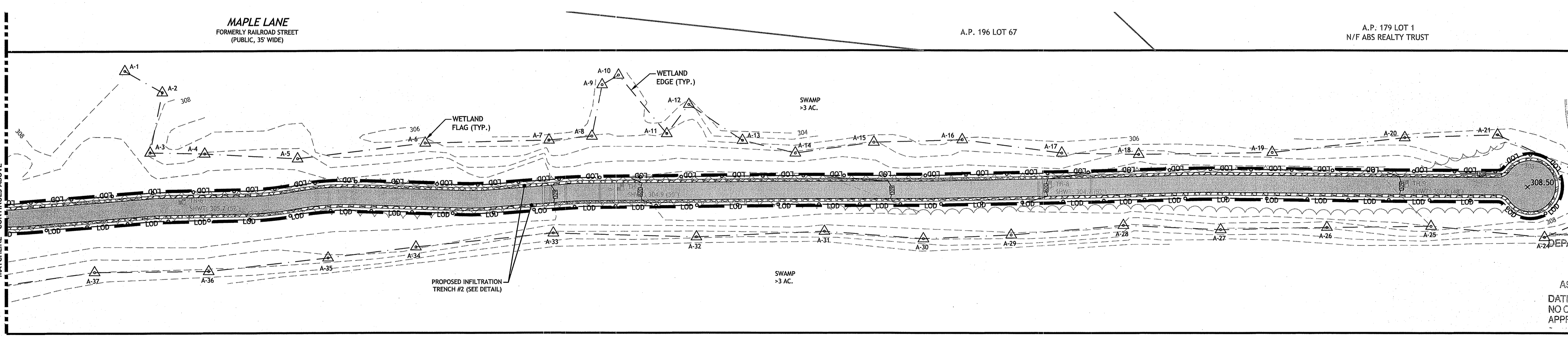
CONTRACTOR TO REMOVE AND DISPOSE EXISTING TIMBER RAILROAD TIES WITHIN THIS AREA; CONTRACTOR SHALL EXCAVATE AND RELOCATE 18-INCHES OF IMPACTED SOIL TO THE EXISTING ELUR AREA (PROPOSED 19 VEHICLE PARKING AREA, SEE ABOVE); BACKFILL RESULTING VOID WITH CLEAN GRAVEL BORROW. DISPOSAL OF RAILROAD TIES AND ANY EXCESS SOIL SHALL BE IN ACCORDANCE WITH THE SITE'S CONSTRUCTION SOILS MANAGEMENT PLAN (SNP) AND ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

PROPOSED BIKE PATH ALIGNMENT IS TO MIMIC EXISTING RAIL BED ALIGNMENT WITHIN EXISTING TREE LINE; EXISTING TREE LINE IS TO BE MAINTAINED TO THE MAXIMUM EXTENT PRACTICABLE. SELECTIVE TREE CLEARING SHALL BE PERFORMED ONLY AS NEEDED TO INSTALL INFILTRATION TRENCHES ON THE NORTH AND SOUTH SIDES OF THE BIKE PATH (SEE SHIT. 3)

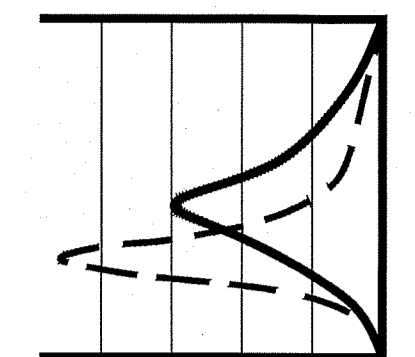
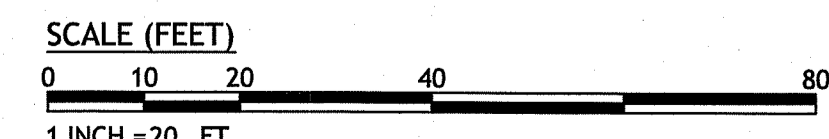
C:\05-92 Town of Burrillville\05-92ay Oakland-Mapleville Bike Path\Mapleville Bike Path [PERMIT SET Rev. 1].dwg Aug. 05, 2019 2:49pm



**GRADING & DRAINAGE PLAN: AREA 1**  
SCALE: 1 INCH = 20 FEET



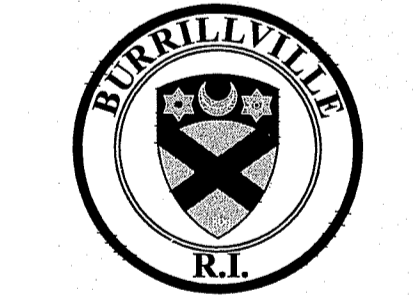
**GRADING & DRAINAGE PLAN: AREA 2**  
SCALE: 1 INCH = 20 FEET



**JCE**  
JOE CASALI ENGINEERING, INC.  
100 WEST MAIN STREET, SUITE 200  
BARRINGTON, RHODE ISLAND 02806  
PHONE: 401.844.1390 FAX: 401.844.1313 WWW.JCEENGINEERING.COM

JOSEPH A. CASALI  
No. 250  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

**OAKLAND-MAPLEVILLE BIKE PATH**  
1145 VICTORY HIGHWAY  
BURRILLVILLE, RHODE ISLAND  
AP 179, LOTS 89 & 90



**REVISIONS:**

NO.	DATE	DESCRIPTION
1	8/6/19	RIDOT/RIDEM RTC

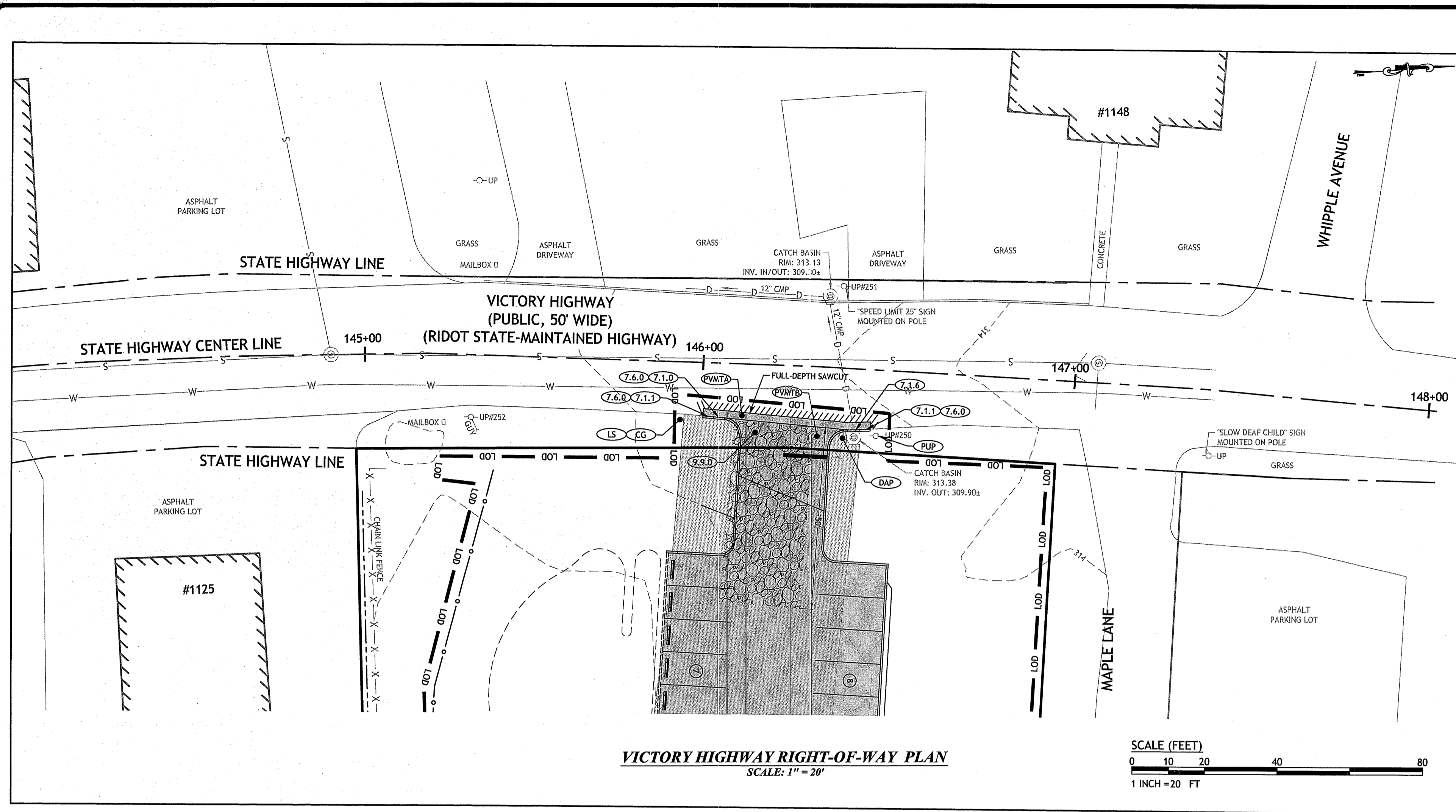
DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: MAY 2019  
PROJECT NO: 05-92ay

ISSUED FOR PERMITTING

**GRADING & DRAINAGE PLAN**  
**SHEET 5 OF 10**

Environmental Management  
AUG 6 2019  
Office of Water Resources

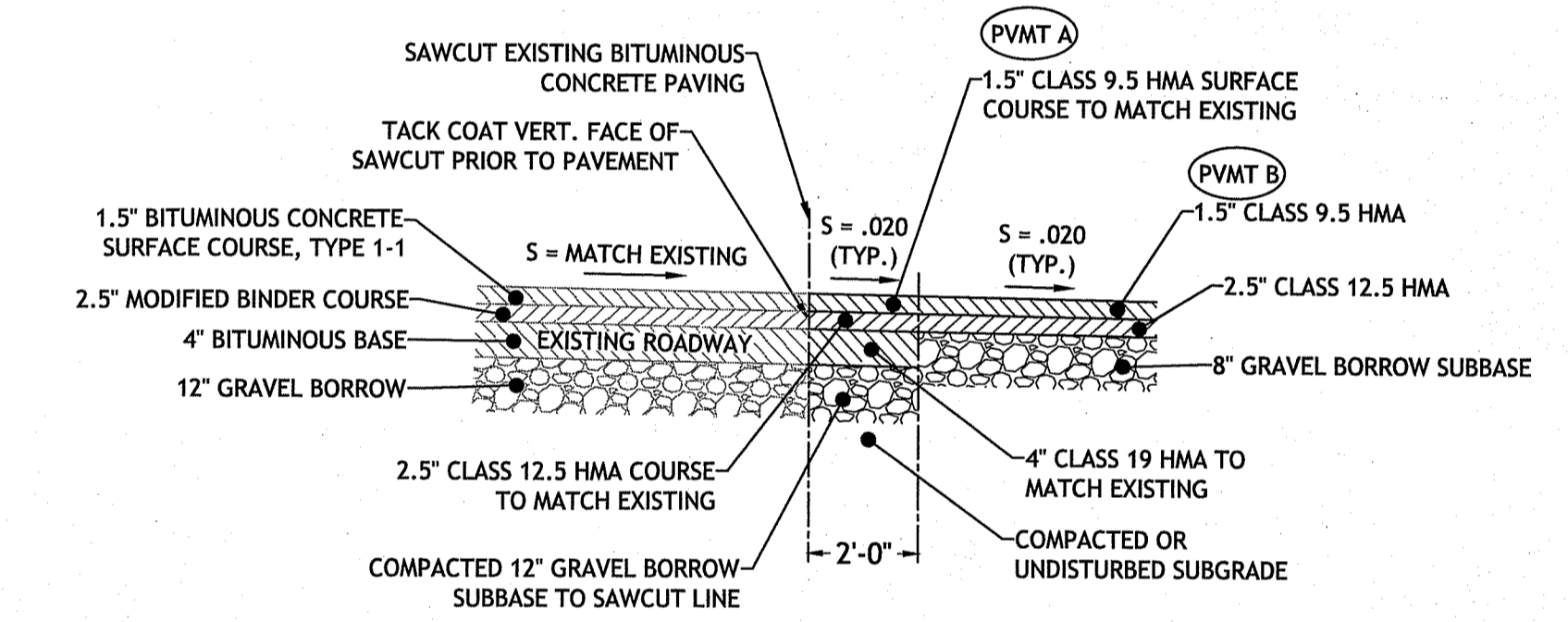
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLAND DESIGN  
APPROVED WITH COMMENTS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED SEP 11 2019 FILE # 19-0156  
NO CHANGES ALLOWED WITHOUT PREVIOUS APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION  
Nancy L. Freeman



**RHODE ISLAND STANDARDS**

- (CG) CLEAR & GRUB
- (DAP) REMOVE AND DISPOSE ASPHALT PAVEMENT
- (LS) LOAM & SEED
- (12W) 12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- (PUP) PROTECT UTILITY POLE
- (7.1.0) PRECAST CONCRETE CURB
- (7.1.1) 3' PRECAST CONCRETE TRANSITION CURB
- (7.1.6) PRECAST CONCRETE INLET STONE (FOR ROUND CB)
- (7.6.0) CURB SETTING
- (9.9.0) CONSTRUCTION ACCESS
- (24.1.0) SIGN POST INSTALLATION - SQUARE POST
- (27.1.0) REGULATORY SIGN
- (R1-1) STOP SIGN
- (PVMT A) EXISTING STATE ROADWAY PAVEMENT STRUCTURE PER CONTRACT NO. 6486:  
1.5" CLASS 9.5 HOT MIX ASPHALT (HMA)  
2.5" CLASS 12.5 HMA  
4.0" CLASS 19.0 HMA  
12" GRAVEL BORROW
- (PVMT B) PROPOSED DRIVEWAY ENTRANCE STRUCTURE:  
1.5" CLASS 9.5  
2.5" CLASS 12.5 HMA  
8" GRAVEL BORROW SUBBASE

- NOTES:**
- ALL WORK TO BE DONE WITHIN THE STATE RIGHT-OF-WAY (ROW) SHALL CONFORM TO RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2013 WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RI STANDARD DETAILS 1998 EDITION WITH ALL REVISIONS.
  - UTILITY WORK SHOWN AS REFERENCE. THIS WORK NEEDS TO BE PERMITTED THROUGH A PHYSICAL UTILITY PERMIT (PUP) WITH RIDOT'S DIVISION OF MAINTENANCE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
  - CONTRACTOR TO PROVIDE TEMPORARY EROSION CONTROLS TO PROTECT THE STATE ROW DURING THE DEMOLITION OF EXISTING DRIVEWAY AND CONSTRUCTION OF NEW DRIVEWAY.



- NOTES:**
- MINIMUM COMPACTION FOR GRAVEL SUB-BASE OR SUBGRADE: 95% MODIFIED PROCTOR.
  - NO WORK SHOULD BE DONE OUTSIDE OF THE PROJECT SITE. PAVEMENT SHOULD MATCH WHERE NOTED ON THE SITE PLANS.
  - WHEN MATCHING EXISTING PAVEMENT, THE LONGITUDINAL CUT AND MATCH SECTION SHOULD NOT EXCEED PAST THE SHOULDER STRIPING.

**ROW SAWCUT AND MATCH DETAIL**  
NOT TO SCALE

POSTED SPEED LIMIT ON VICTORY HIGHWAY: 25 MPH

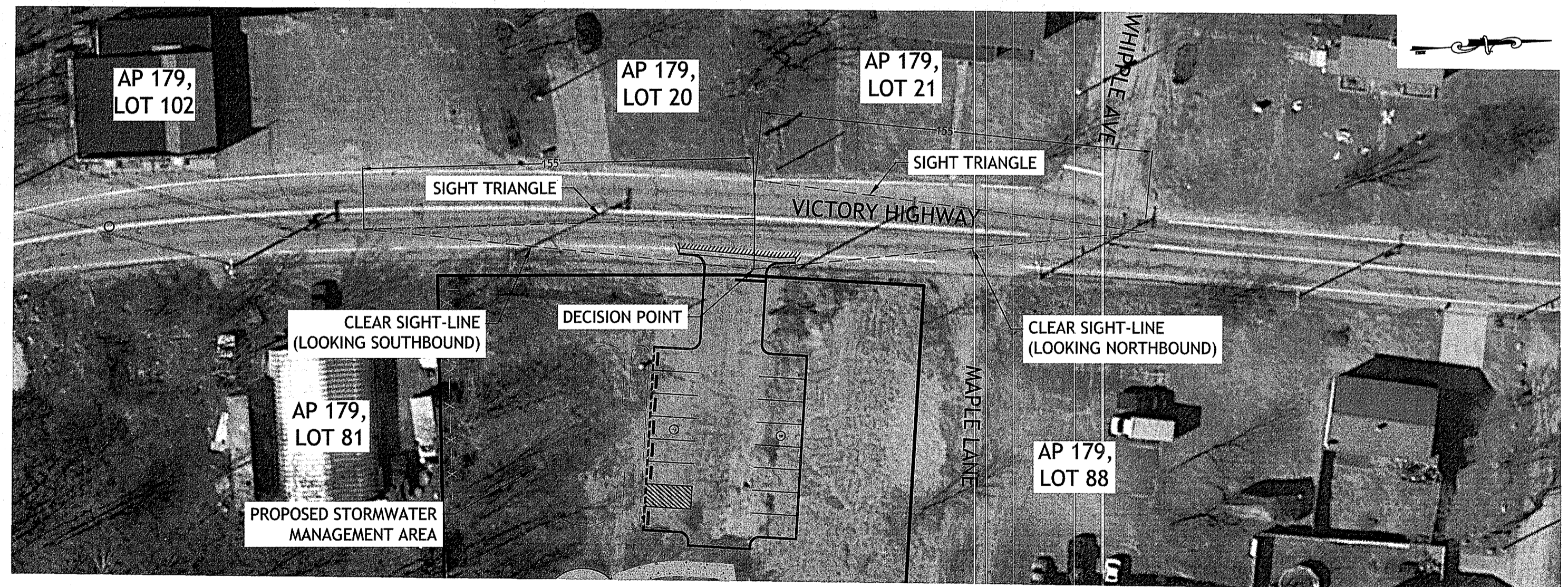
AASHTO STOPPING SIGHT DISTANCE (SSD) REQUIREMENTS:

SPEED	DISTANCE	REQUIREMENT
25	155 FT.	POSTED
30	200 FT.	
35	250 FT.	
40	305 FT.	OBSERVED
55	495 FT.	

A TRAFFIC IMPACT STUDY IS NOT WARRANTED FOR THIS PROJECT. THE PROPOSED DEVELOPMENT WILL NOT GENERATE MORE THAN 100 ADDED (NEW) VEHICLES TRIPS PER HOUR DURING THE ADJACENT ROADWAY'S PEAK HOUR.

THE SITE MEETS REQUIREMENTS FOR THE POSTED SPEED LIMIT ON VICTORY HIGHWAY. THE AVAILABLE SIGHT DISTANCES AT THE PROPOSED DRIVEWAY LOCATION ON VICTORY HIGHWAY ARE IN EXCESS OF 250 FEET TO THE SOUTH AND 450 FEET TO THE NORTH. THESE VALUES ARE GREATER THAN AASHTO'S RECOMMENDED MINIMUM SIGHT DISTANCE OF 155 FEET BASED ON THE POSTED SPEED LIMIT OF 25 MPH ON VICTORY HIGHWAY.

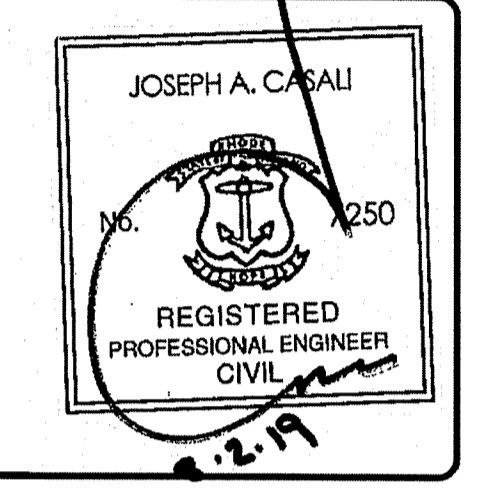
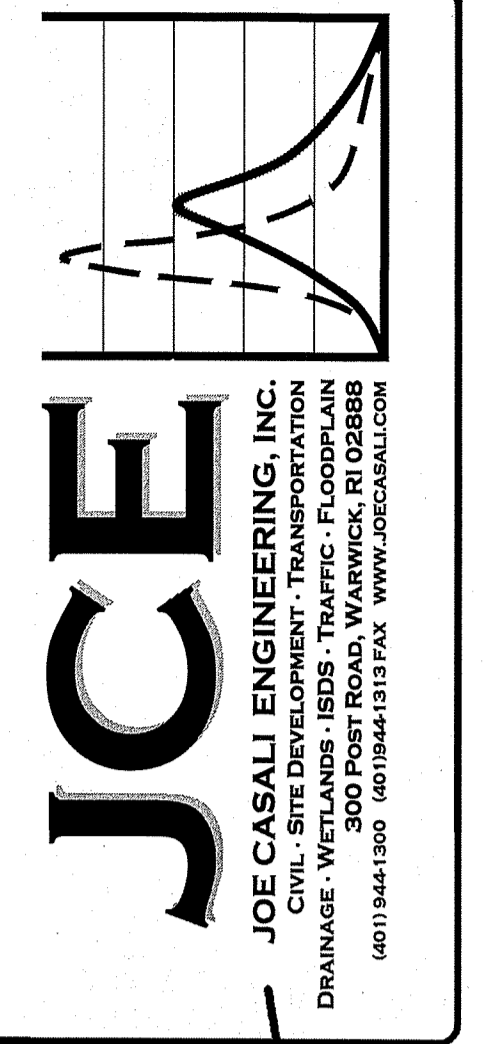
**DRAINAGE STATEMENT:**  
THE PROPOSED DRAINAGE PATTERNS WILL GENERALLY MIMIC THOSE OF EXISTING CONDITIONS WITH THE MAJORITY OF STORMWATER FROM THE FRONT OF THE SITE SHEET FLOWING TO THE WETLAND COMPLEX LOCATED TO THE WEST OF THE SUBJECT PARCELS. STORMWATER RUNOFF DOES NOT DISCHARGE TO THE STATE HIGHWAY RIGHT-OF-WAY UNDER EXISTING CONDITIONS NOR PROPOSED CONDITIONS. THEREFORE, THERE WILL BE NO INCREASE IN PEAK STORMWATER RUNOFF RATES OR VOLUMES TO THE STATE RIGHT-OF-WAY.



**LOCATION KEY PLAN**  
SCALE: 1" = 40'



LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL DIGSAFE AT: 1-888-DIG-SAFE 1-888-344-7233



**OAKLAND-MAPLEVILLE BIKE PATH**  
1145 VICTORY HIGHWAY  
BURRILLVILLE, RHODE ISLAND  
AP 179, LOTS 89 & 90



REVISIONS:

NO.	DATE	DESCRIPTION
1	8/6/19	RIDOT/RIDEM RTC

DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: MAY 2019  
PROJECT NO: 05-922y

ISSUED FOR PERMITTING

**RIDOT PAP PLAN**

**SHEET 6 OF 10**

**INTERNATIONAL MAPPING & SURVEYING CORP.**  
LAND SURVEYING CIVIL ENGINEERING PHOTOGRAMMETRIC MAPPING  
19 INDUSTRIAL DRIVE, SMITHFIELD, R.I. 02917 (401) 232-2620

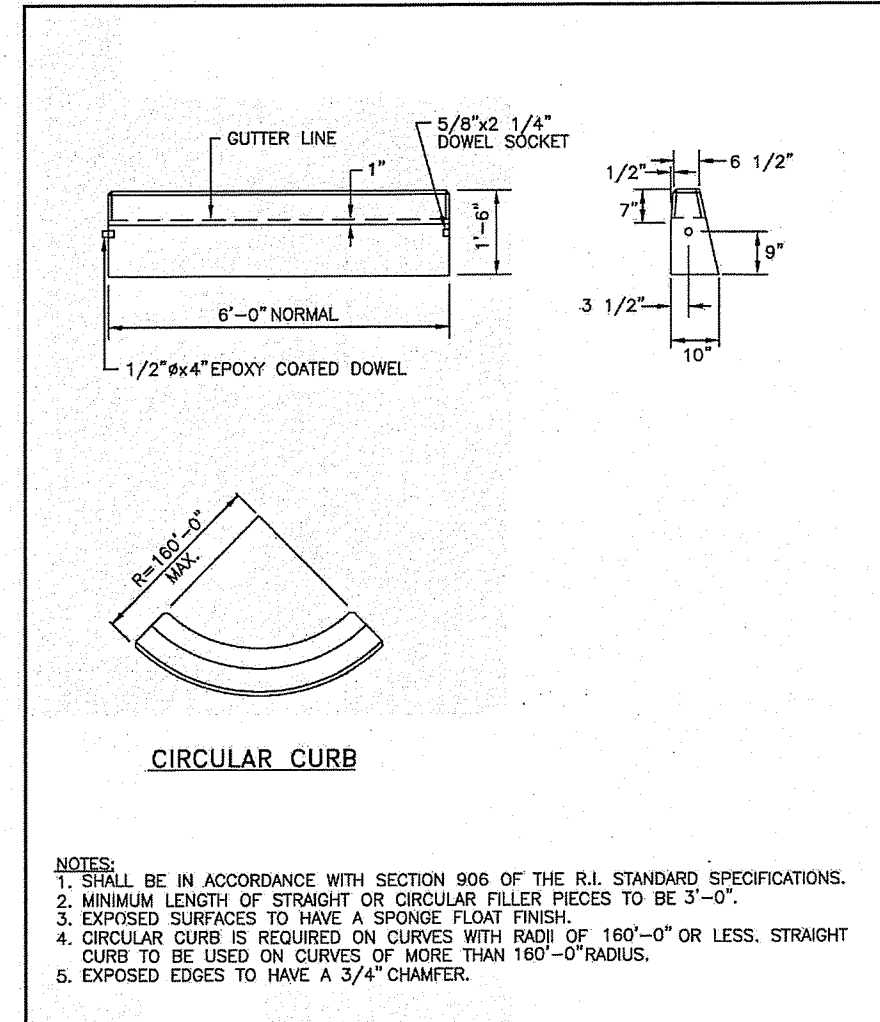
**CERTIFICATION:**  
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY:	COMPREHENSIVE BOUNDARY SURVEY
MEASUREMENT SPECIFICATION:	CLASS 1
VERTICAL CONTROL STANDARD:	V-3
TOPOGRAPHIC SURVEY ACCURACY:	T-2

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
THIS PLAN AND SURVEY ARE PERIMETER SURVEY AND EXISTING CONDITIONS PLAN. RAILROAD MONUMENTS FOUND AT STATION 1016+92.07 AND 1024+84.50 (CENTERLINE).

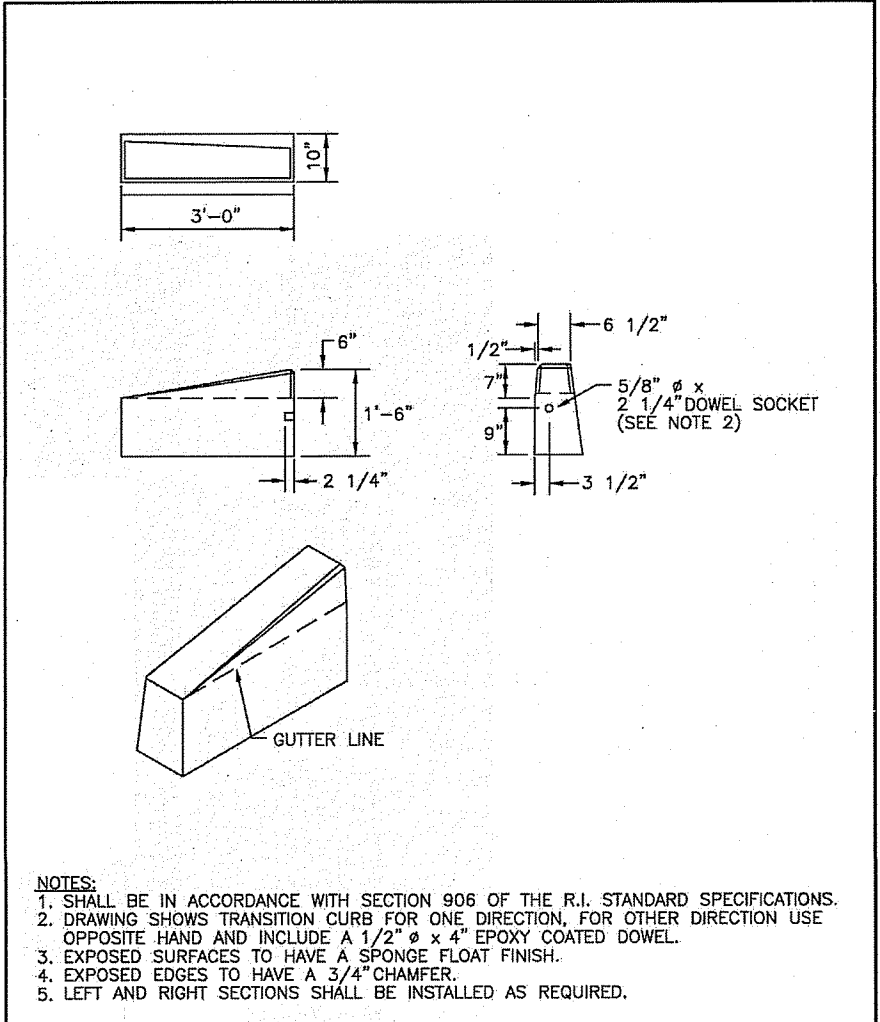
BY: *Anthony E. Muscatelli* DATE: 1/23/2017  
ANTHONY E. MUSCATELLI, PLS #1718 CDA #A368

03.05.92, Town of Burrillville 05-92 by Oakland-Mapleville Bike Path (PREMISE SET Rev. 1) dwg. Aug. 05, 2019 2:49pm



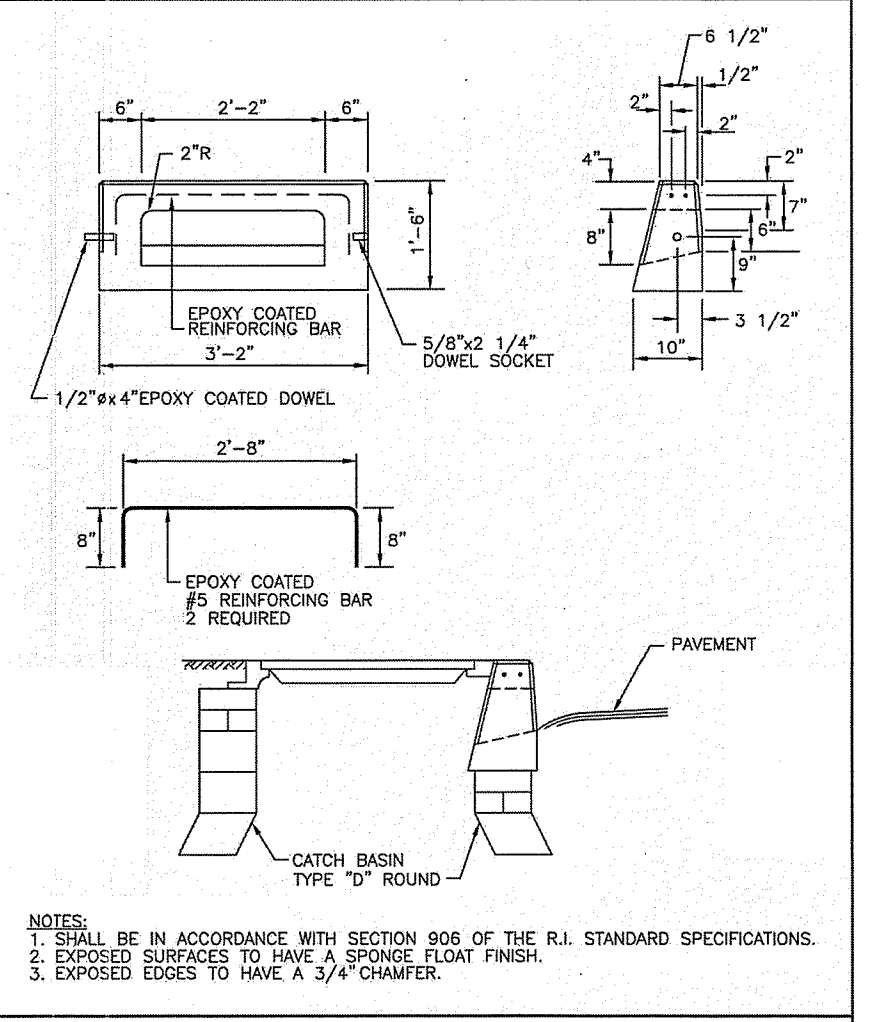
NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.  
2. MINIMUM LENGTH OF STRAIGHT OR CURVED PIECES TO BE 3'-0\"/>  
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.  
4. CIRCULAR CURBS IS REQUIRED ON CURVES WITH RADIUS OF 160'-0\"/>  
5. EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
NO. BY DATE  
1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
7.1.0



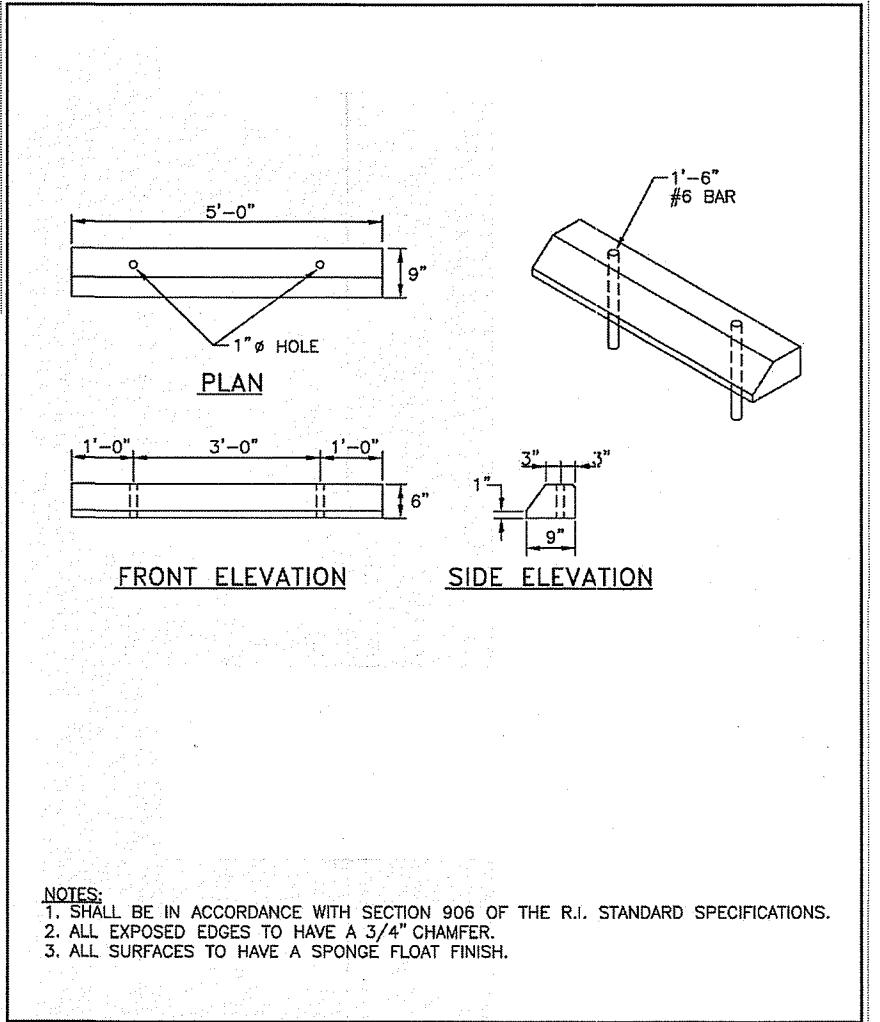
NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.  
2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2\"/>  
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.  
4. EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
NO. BY DATE  
1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
7.1.1



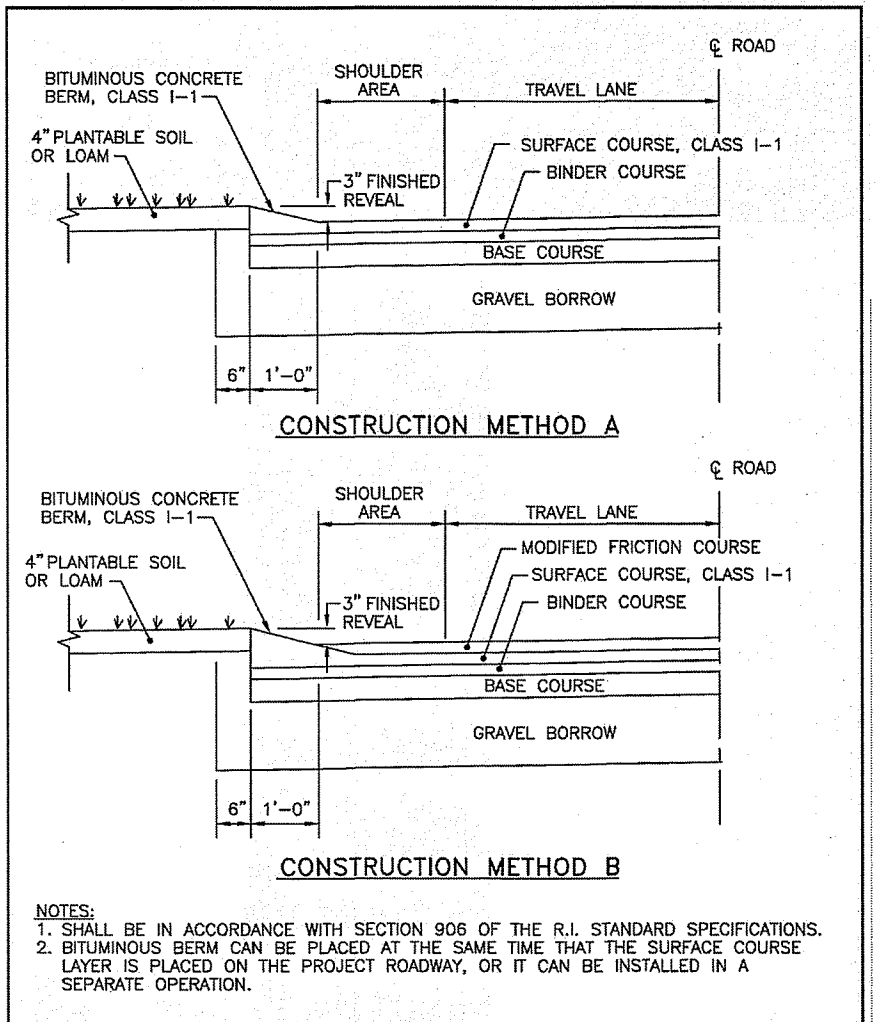
NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.  
2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.  
3. EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
NO. BY DATE  
1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
7.1.6



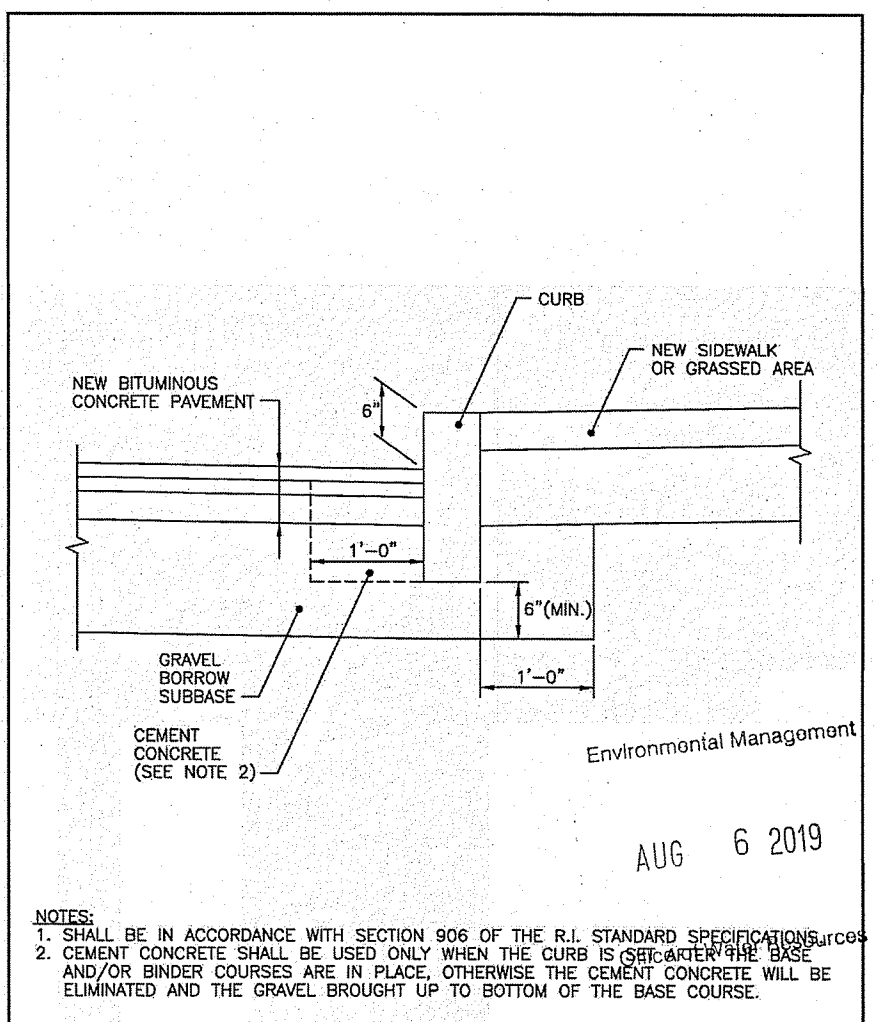
NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.  
2. ALL EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
NO. BY DATE  
1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
7.2.4



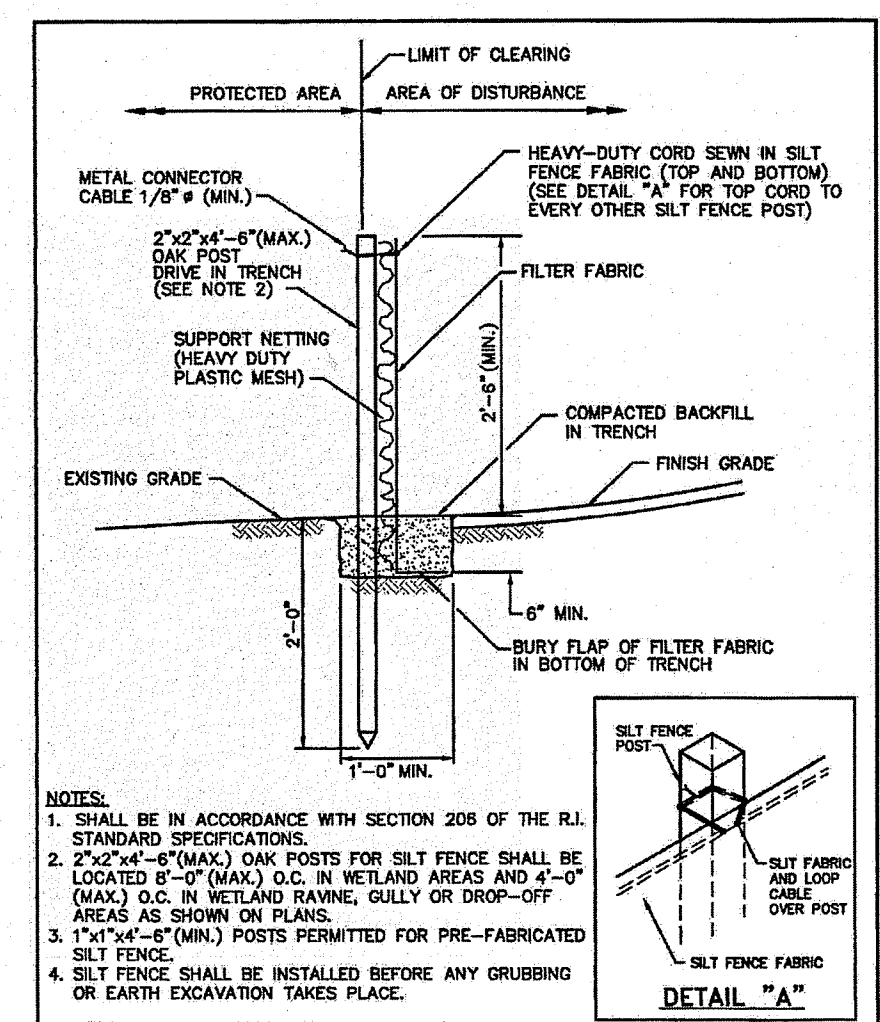
NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.  
2. BITUMINOUS BERM CAN BE PLACED AT THE SAME TIME THAT THE SURFACE COURSE LAYER IS PLACED ON THE PROJECT ROADWAY, OR IT CAN BE INSTALLED IN A SEPARATE OPERATION.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
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1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
7.5.1



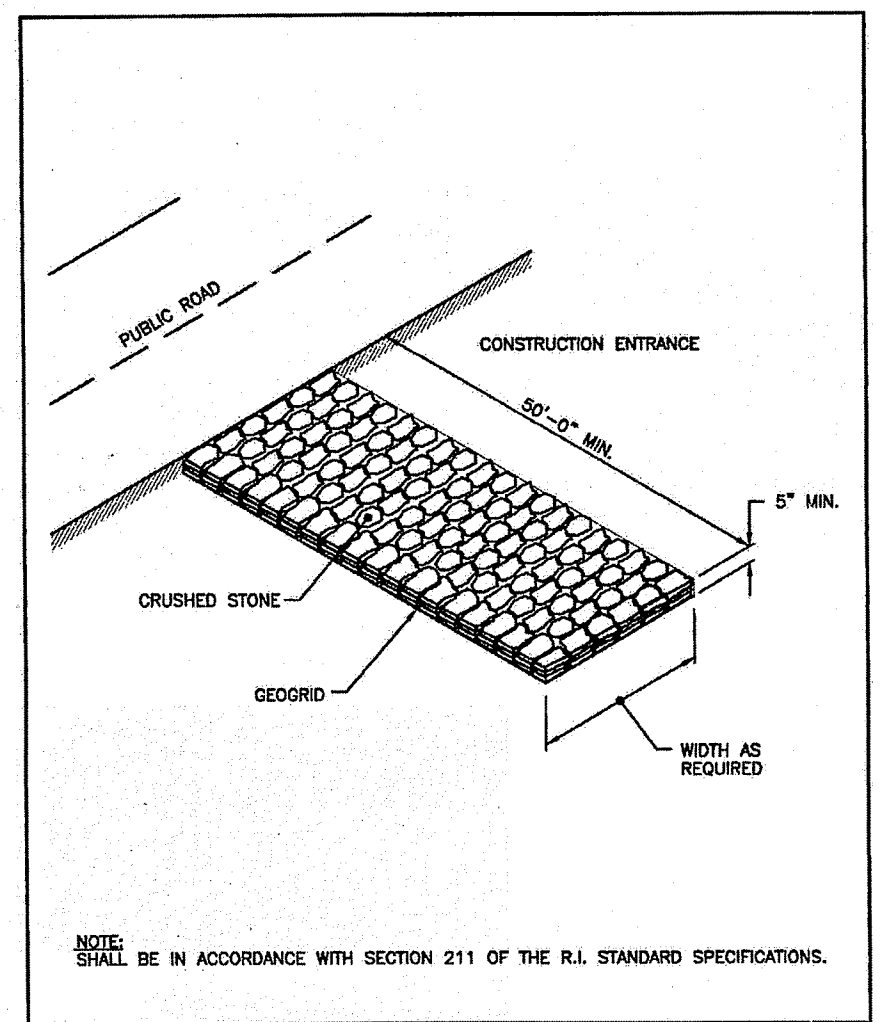
NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.  
2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE CURB IS OVER-SIDEWALK BASE AND/OR BINDER COURSES ARE IN PLACE. OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO BOTTOM OF THE BASE COURSE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
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2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
7.6.0



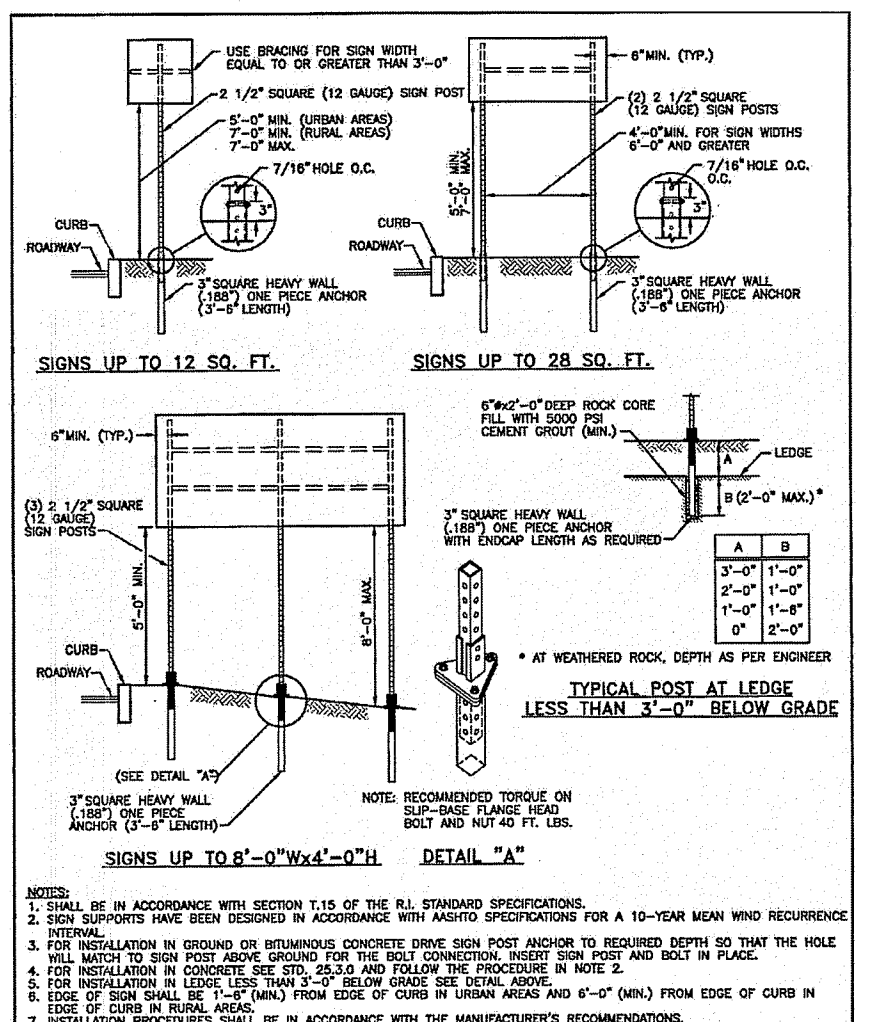
NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE R.I. STANDARD SPECIFICATIONS.  
2. 2\"/>  
3. 1\"/>  
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
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1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
9.2.0



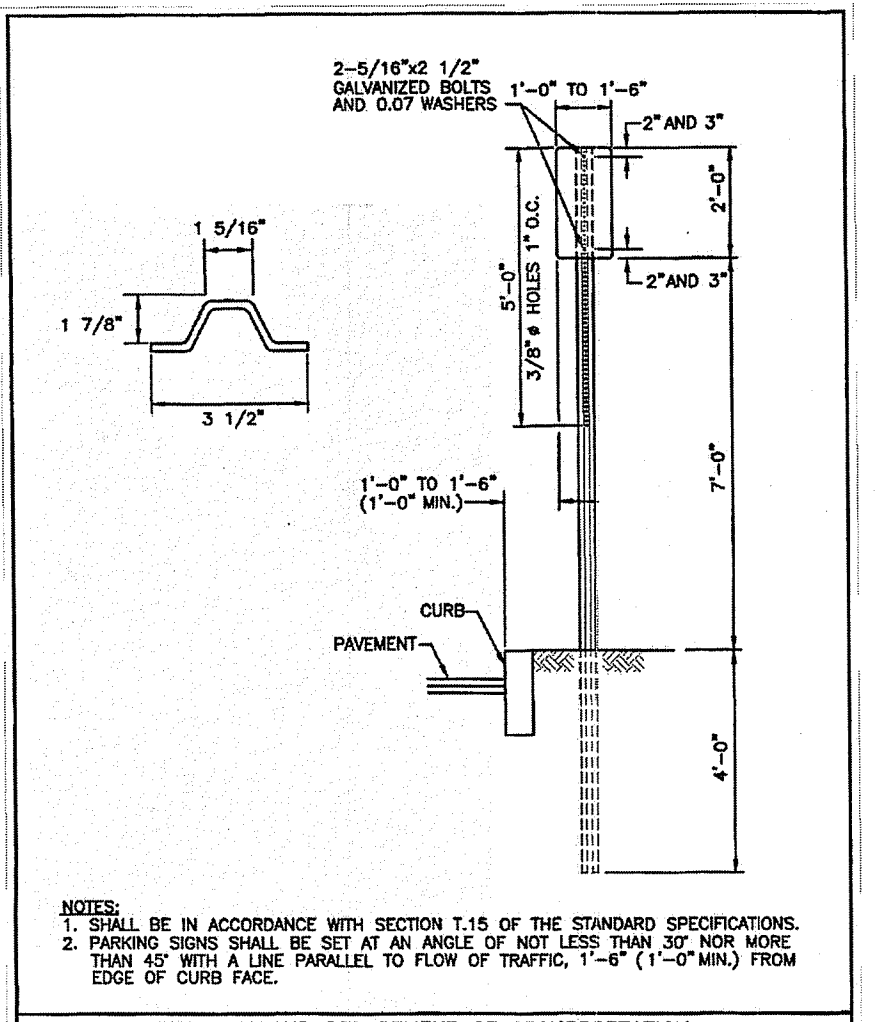
NOTE:  
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
NO. BY DATE  
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2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
9.9.0



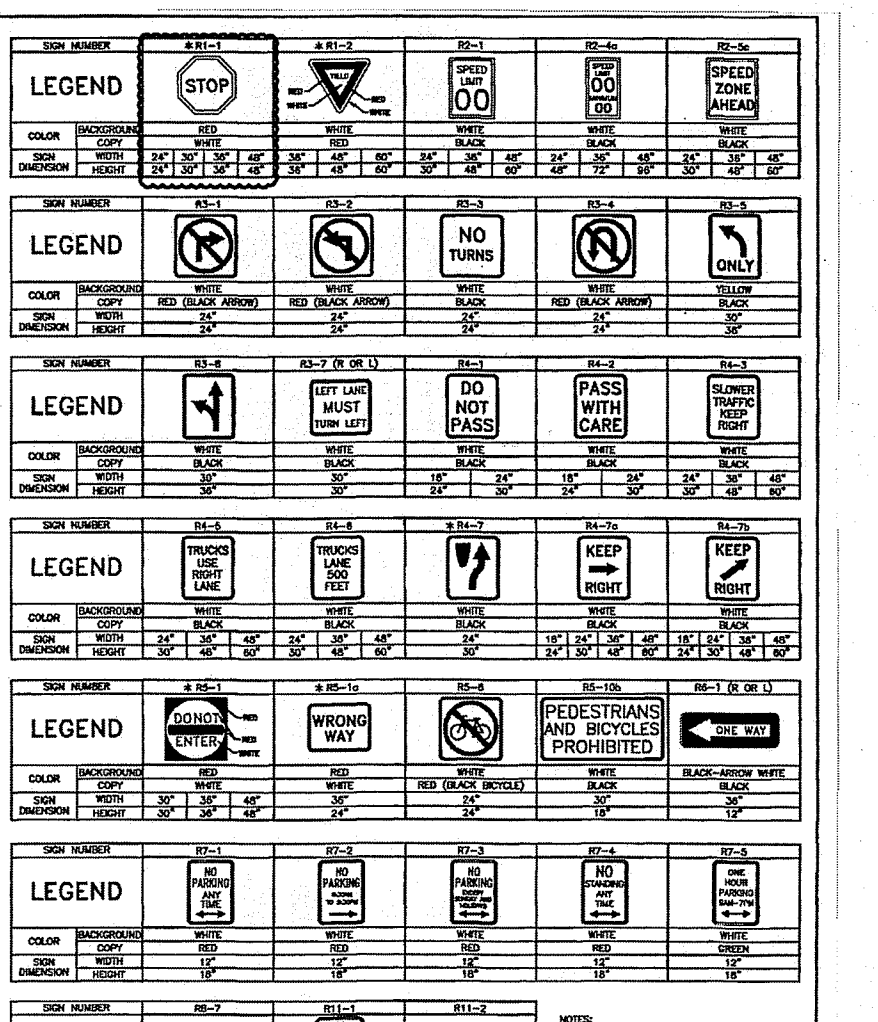
NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 1.15 OF THE R.I. STANDARD SPECIFICATIONS.  
2. SIGN POSTS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
NO. BY DATE  
1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
24.1.0

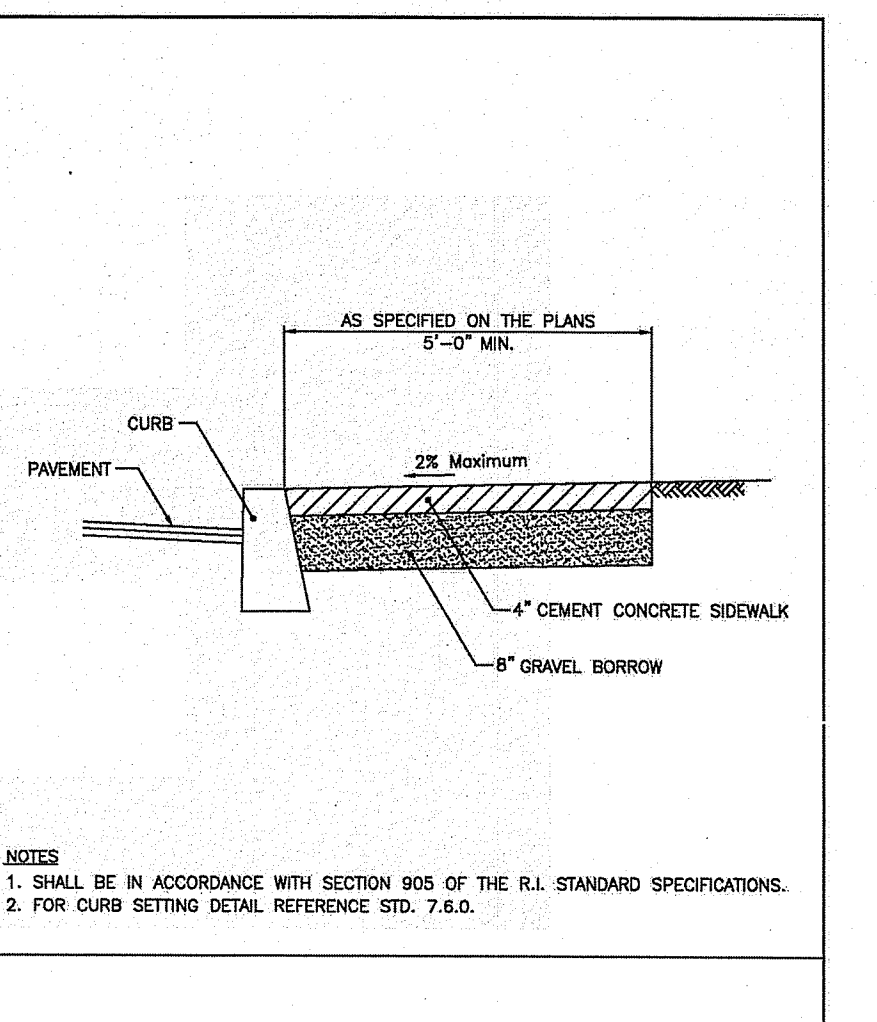


NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE STANDARD SPECIFICATIONS.  
2. PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
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2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
24.6.0

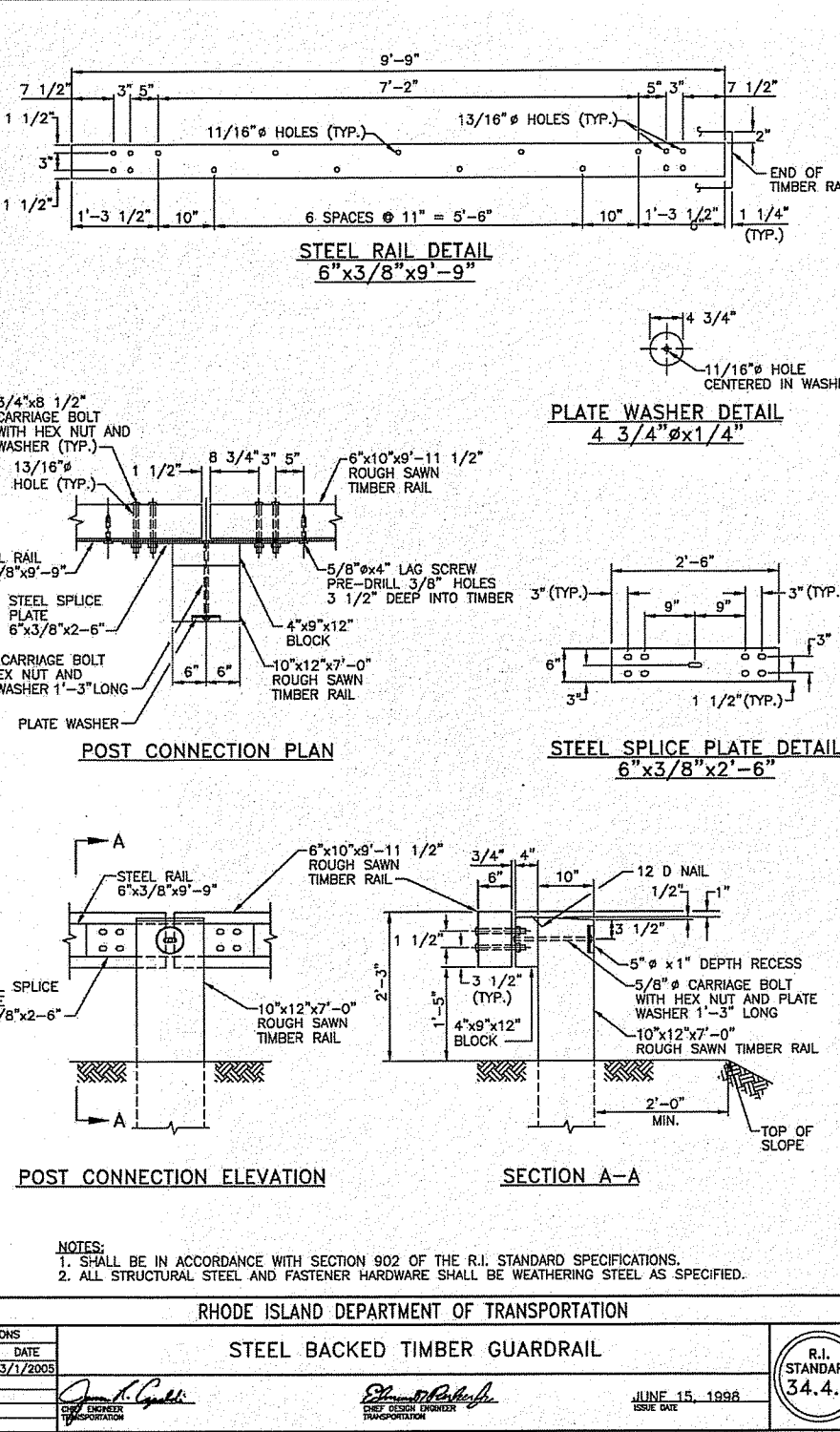


RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REGULATORY SIGNS  
R.I. STANDARD 27.1.0



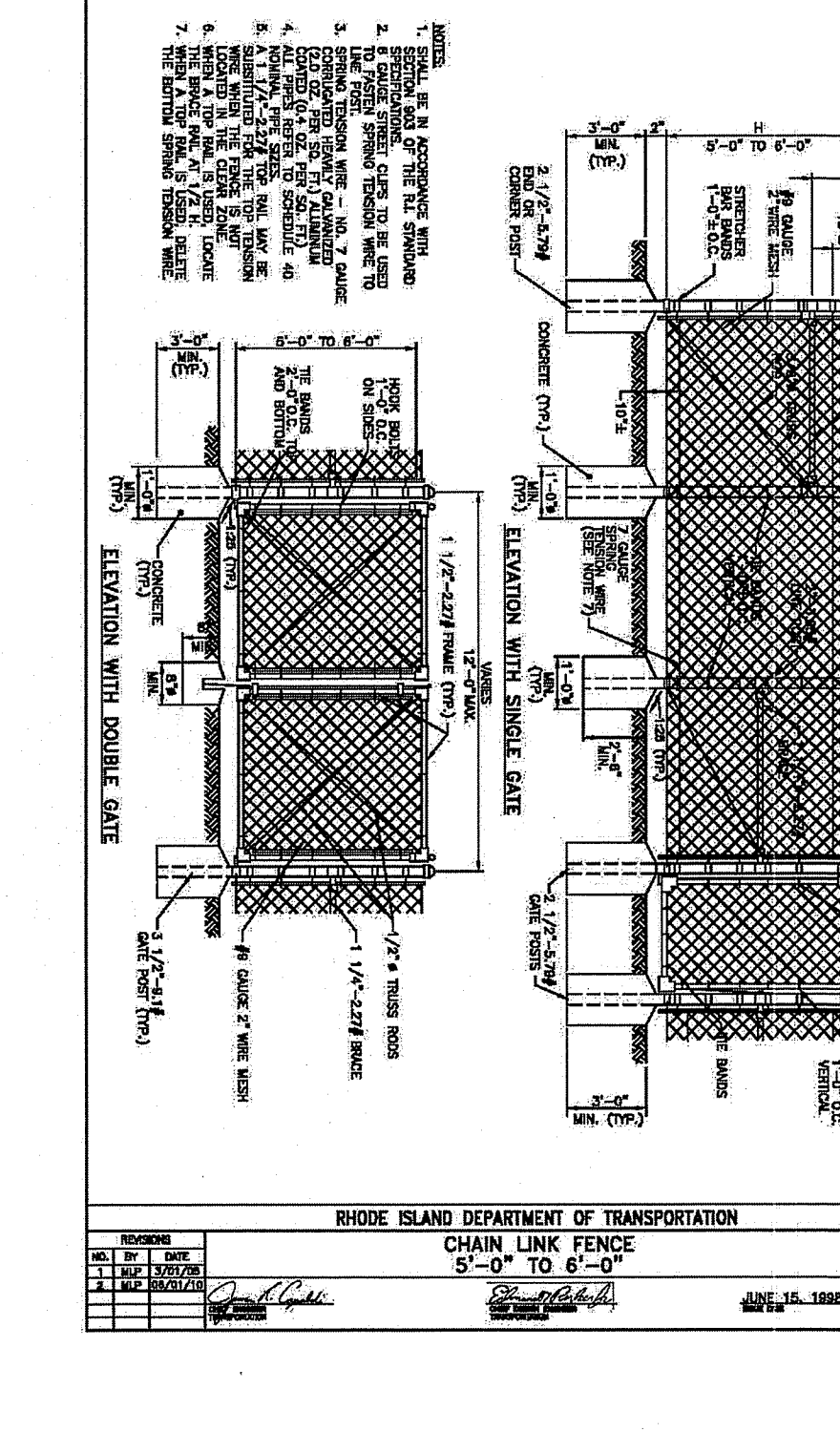
NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.  
2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
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2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
45.1.0

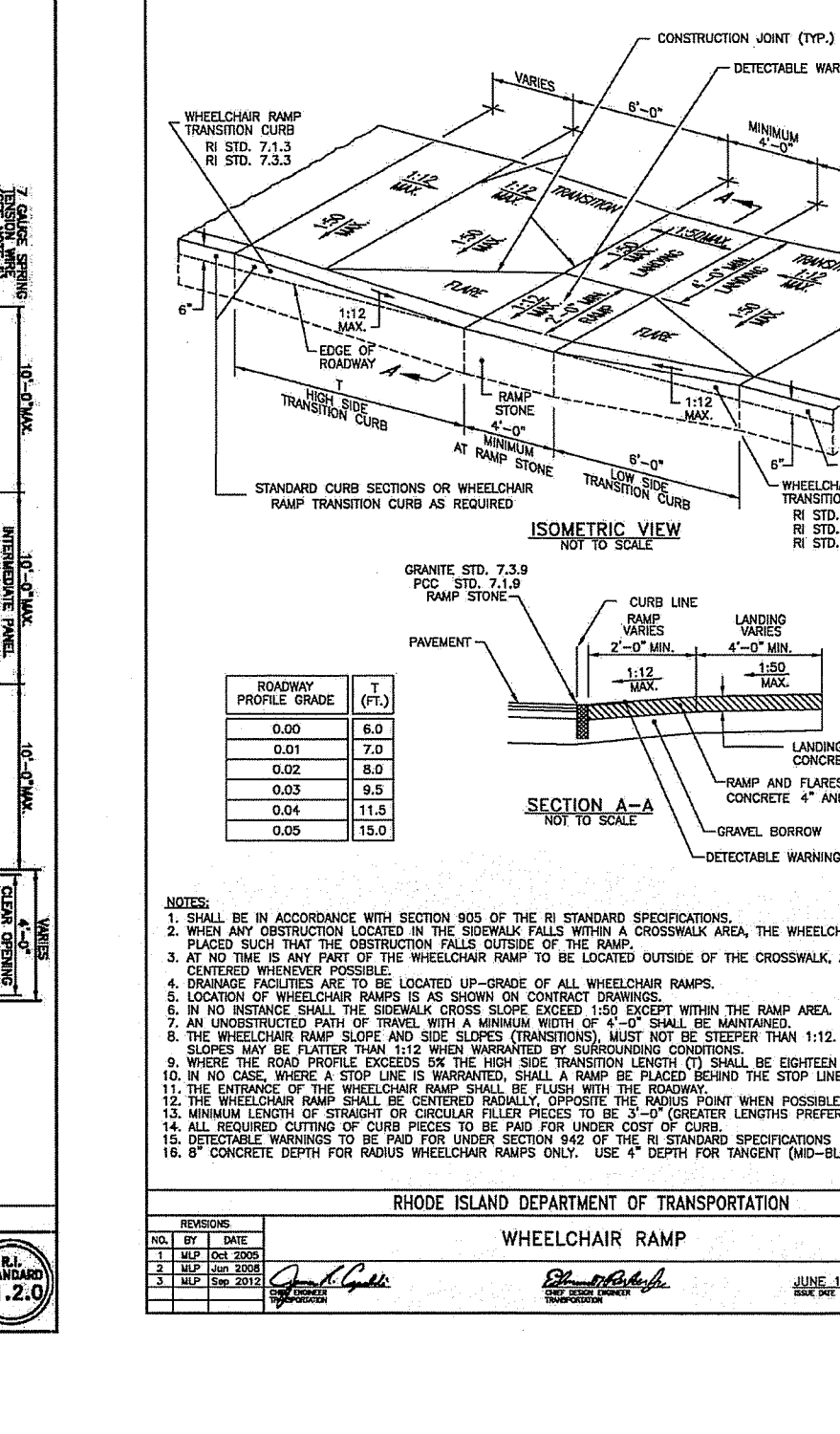


NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 902 OF THE R.I. STANDARD SPECIFICATIONS.  
2. ALL STRUCTURAL STEEL AND FASTENERS HARDWARE SHALL BE WEATHERING STEEL AS SPECIFIED.

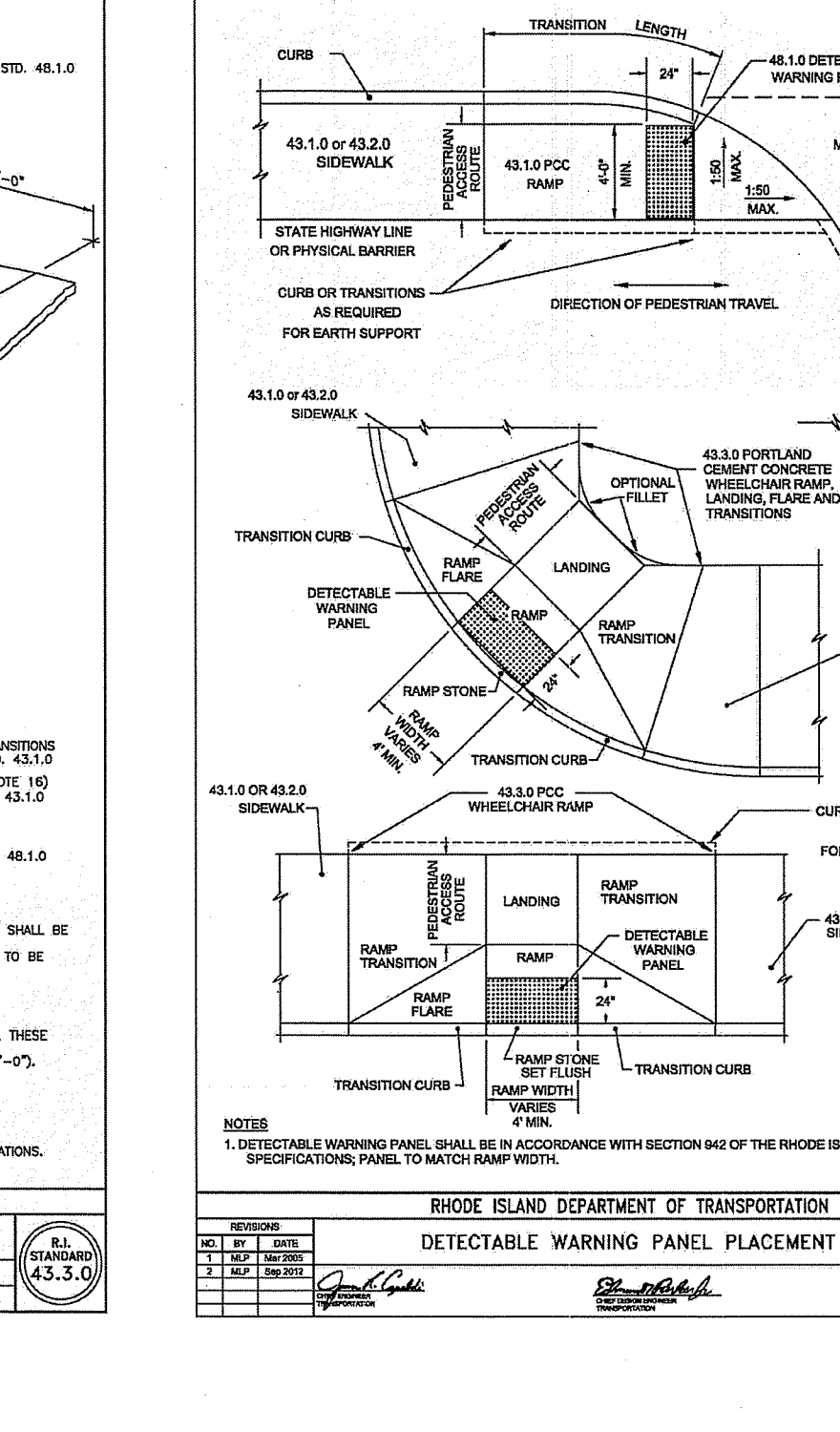
RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
NO. BY DATE  
1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
34.4.0



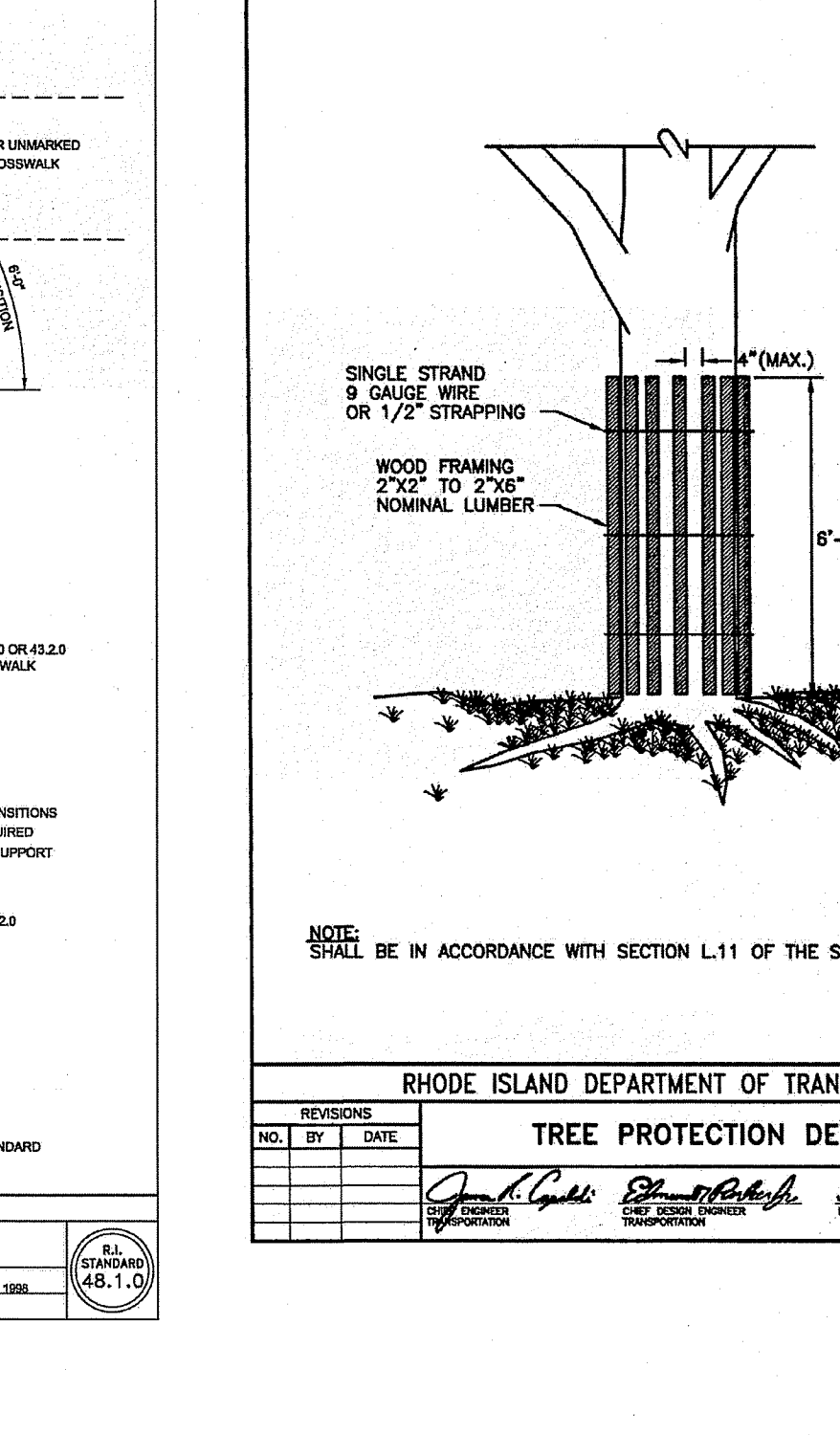
RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
NO. BY DATE  
1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
31.2.0



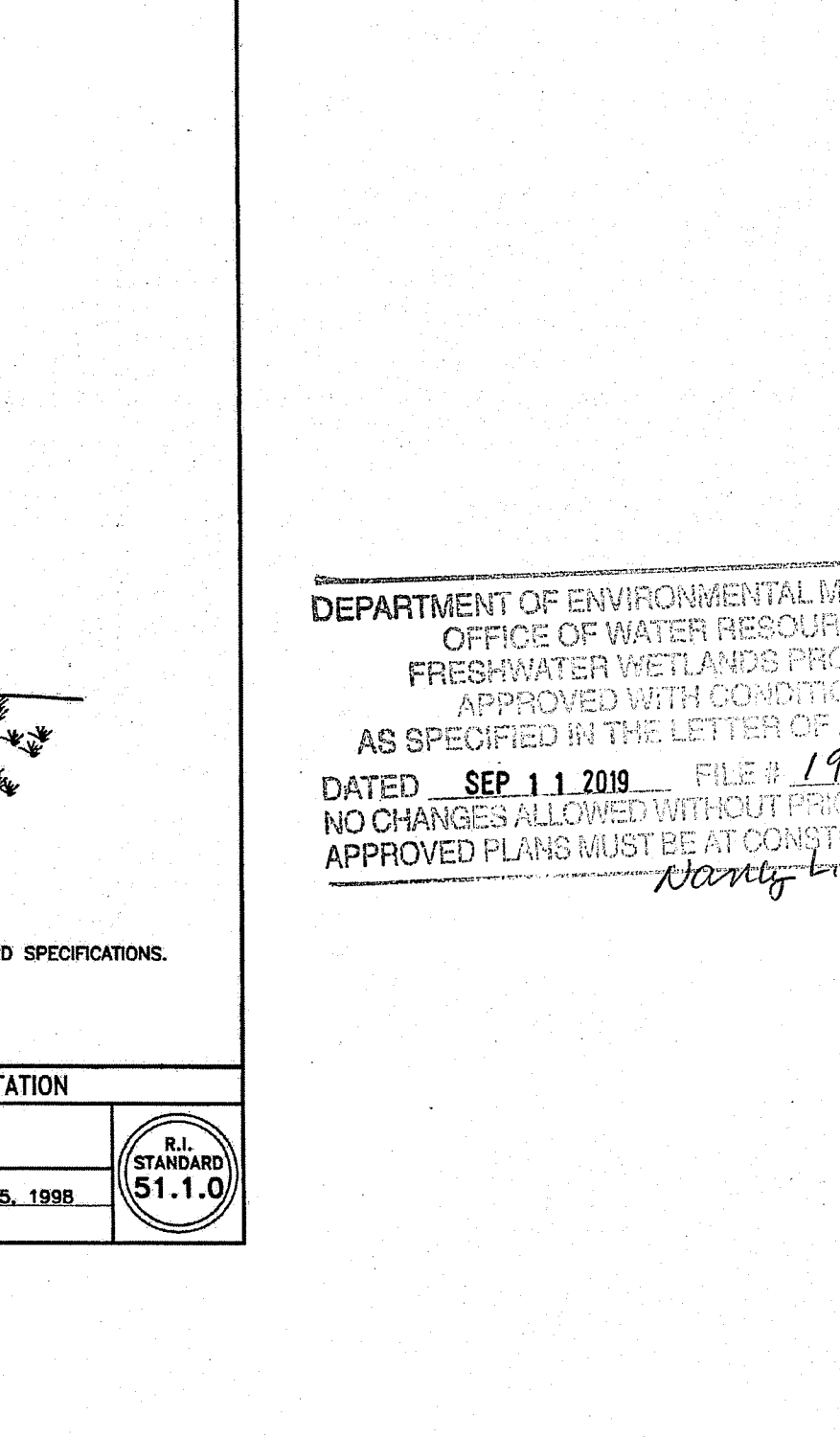
RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
REVISIONS  
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1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
33.3.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
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1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
48.1.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
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2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
51.1.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
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1. JLP/MS/06/15/18  
2. JLP/MS/06/15/18  
DATE  
JUNE 15, 1998  
R.I. STANDARD  
51.1.0

**JOE**  
JOE CASALI ENGINEERING, INC.  
CIVIL SITE DEVELOPMENT, TRANSPORTATION  
DRAINAGE, WEATHER, TRAFFIC, FLOODPLAIN  
300 POST ROAD, WARWICK, RI 02888  
(401) 844-1300 (401) 844-1313 FAX WWW.JOEENGINEERING.COM

JOSEPH A. CASALI  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
No. 250

**OAKLAND-MAPLEVILLE BIKE PATH**  
1145 VICTORY HIGHWAY  
BURRILLVILLE, RHODE ISLAND  
AP 179, LOTS 89 & 90

**BURRILLVILLE**  
R.I.

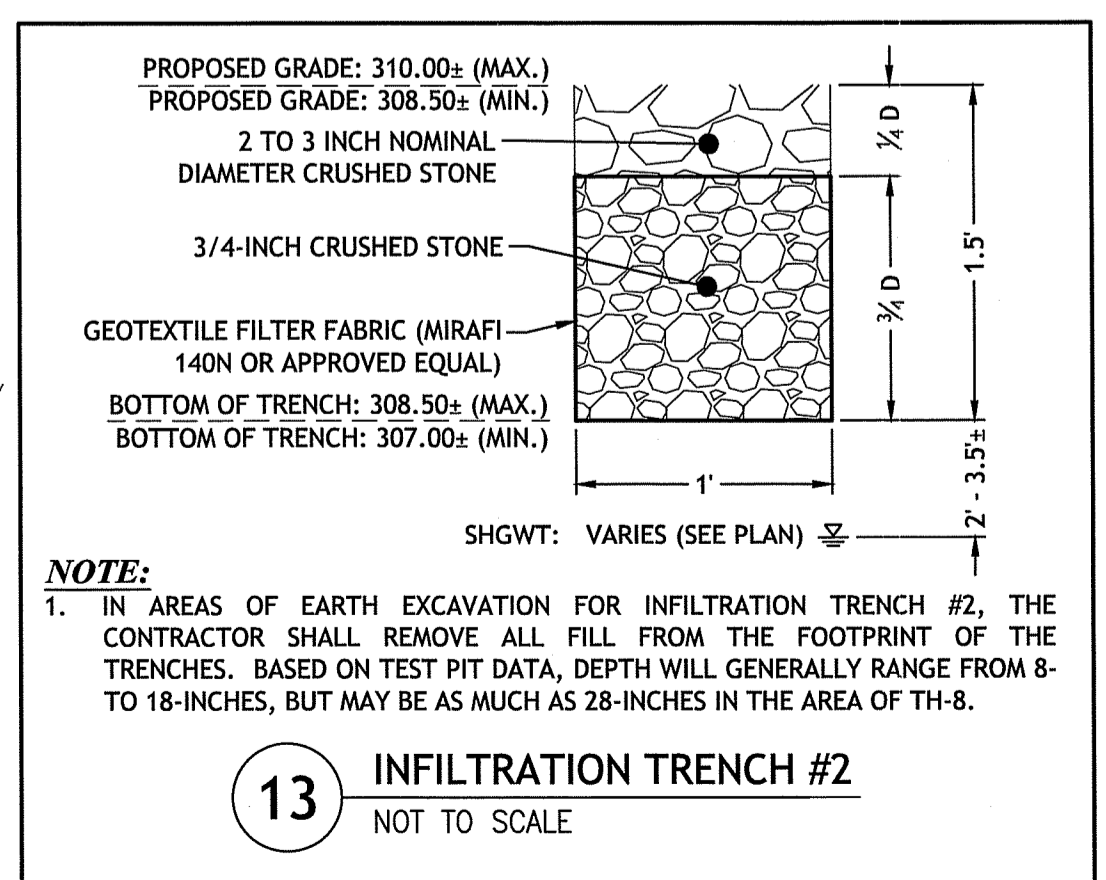
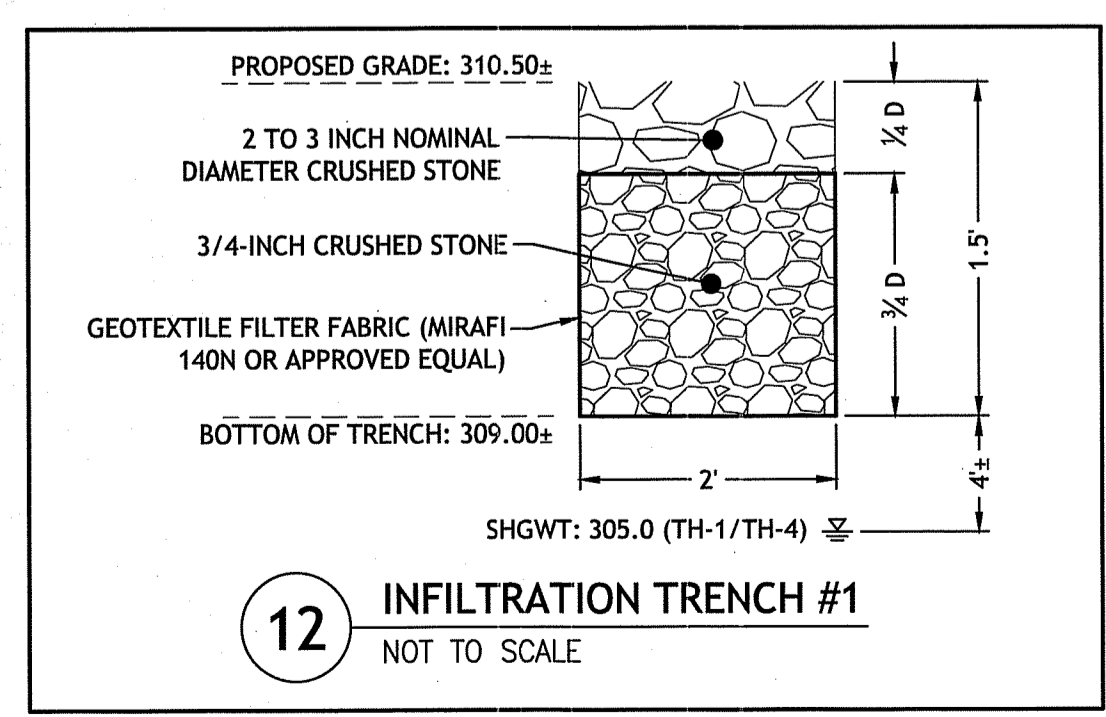
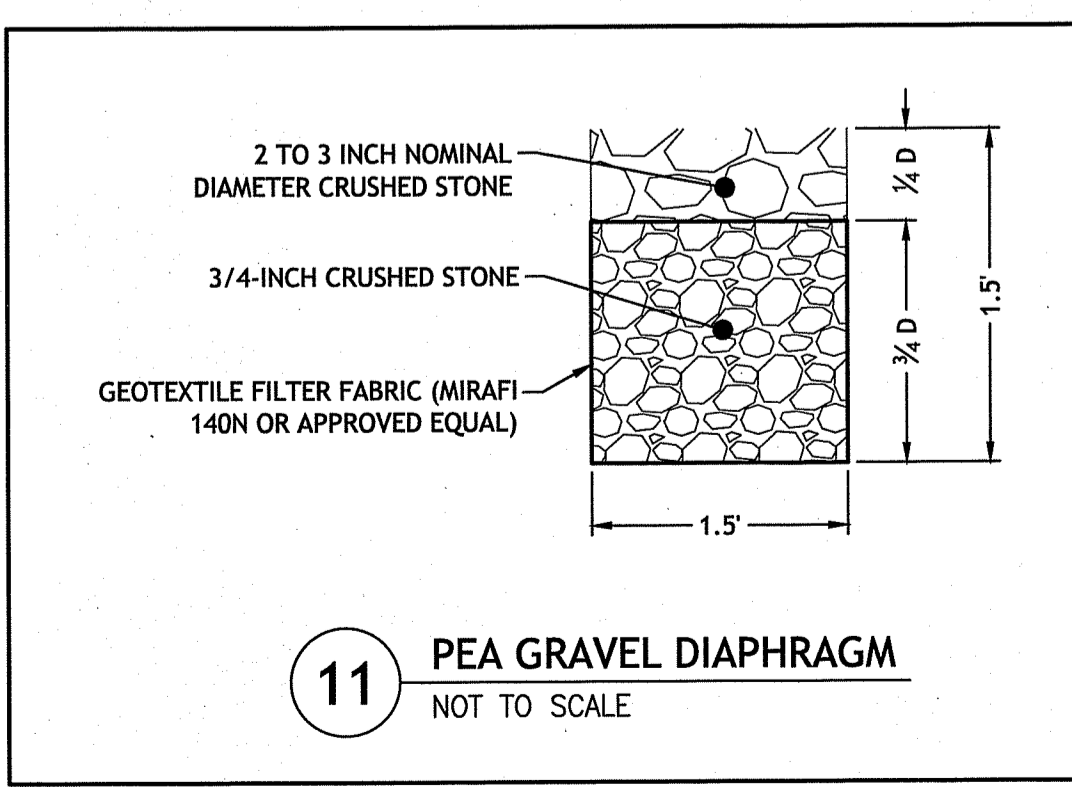
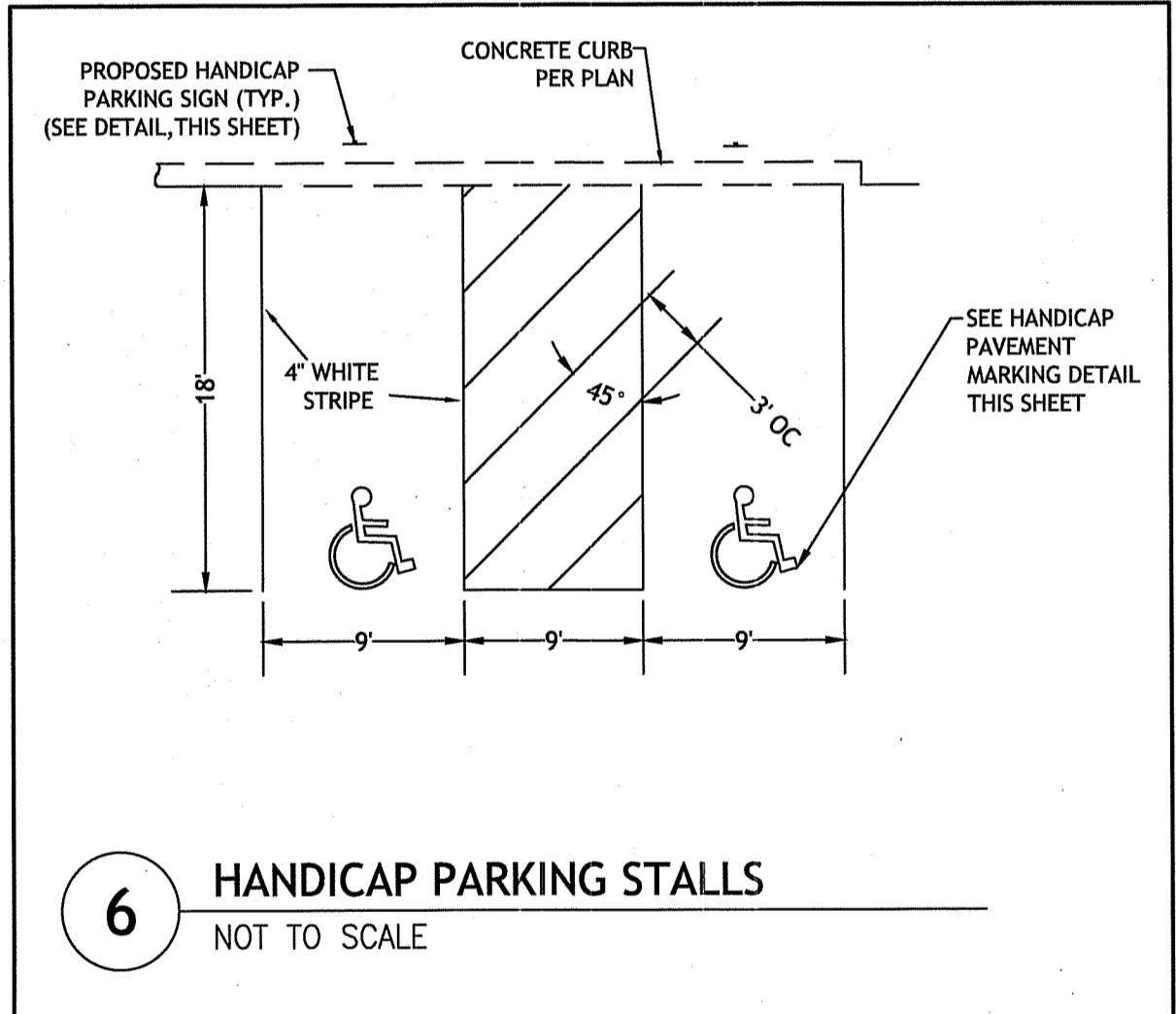
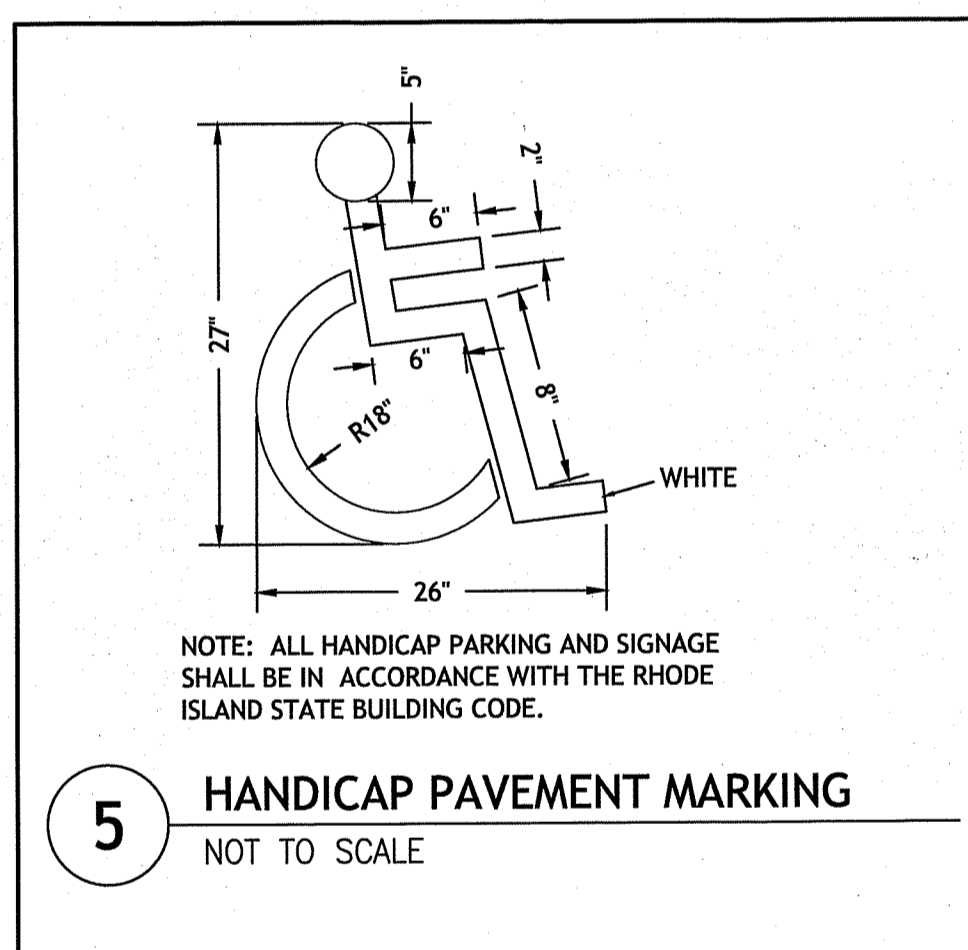
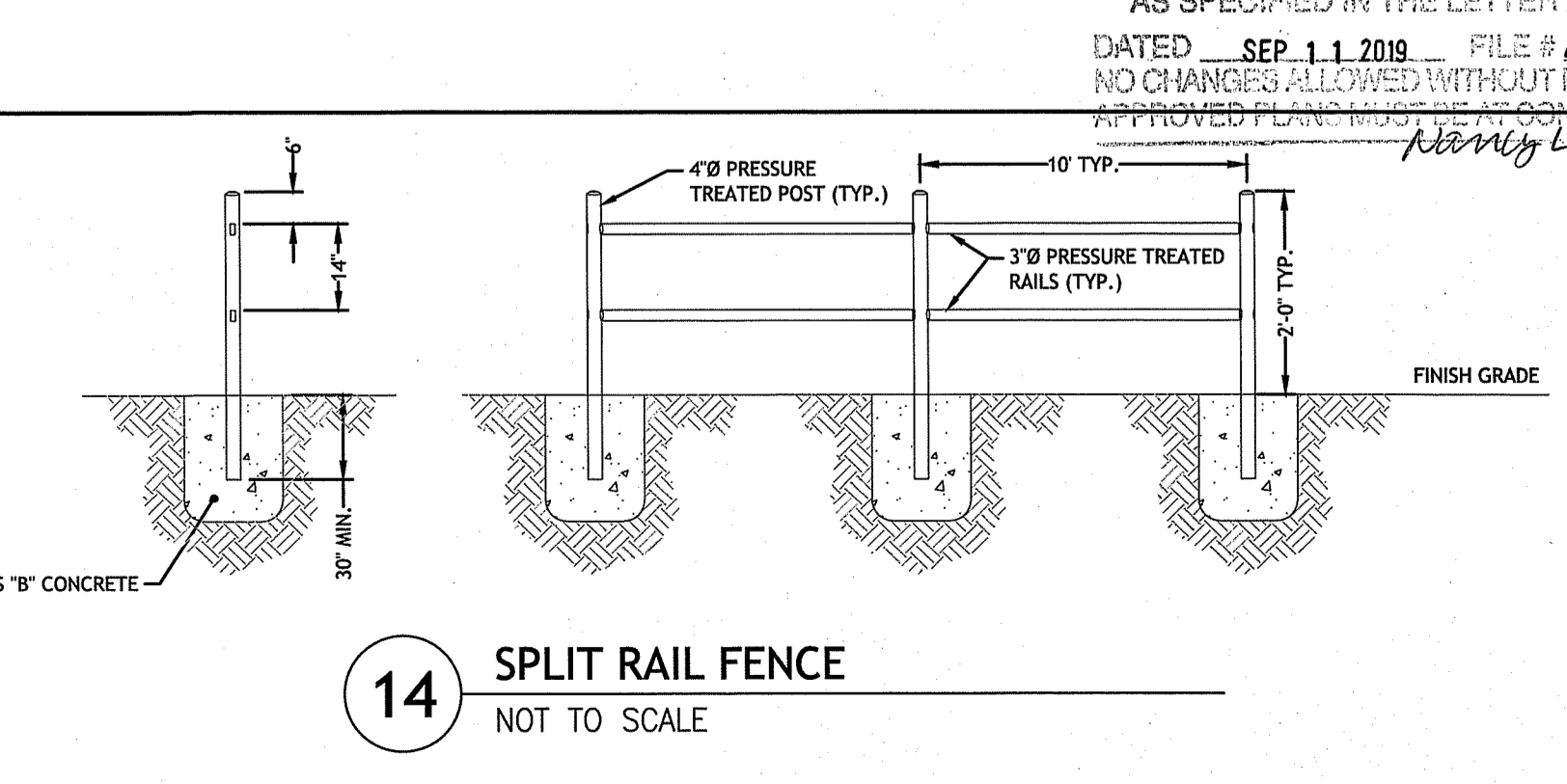
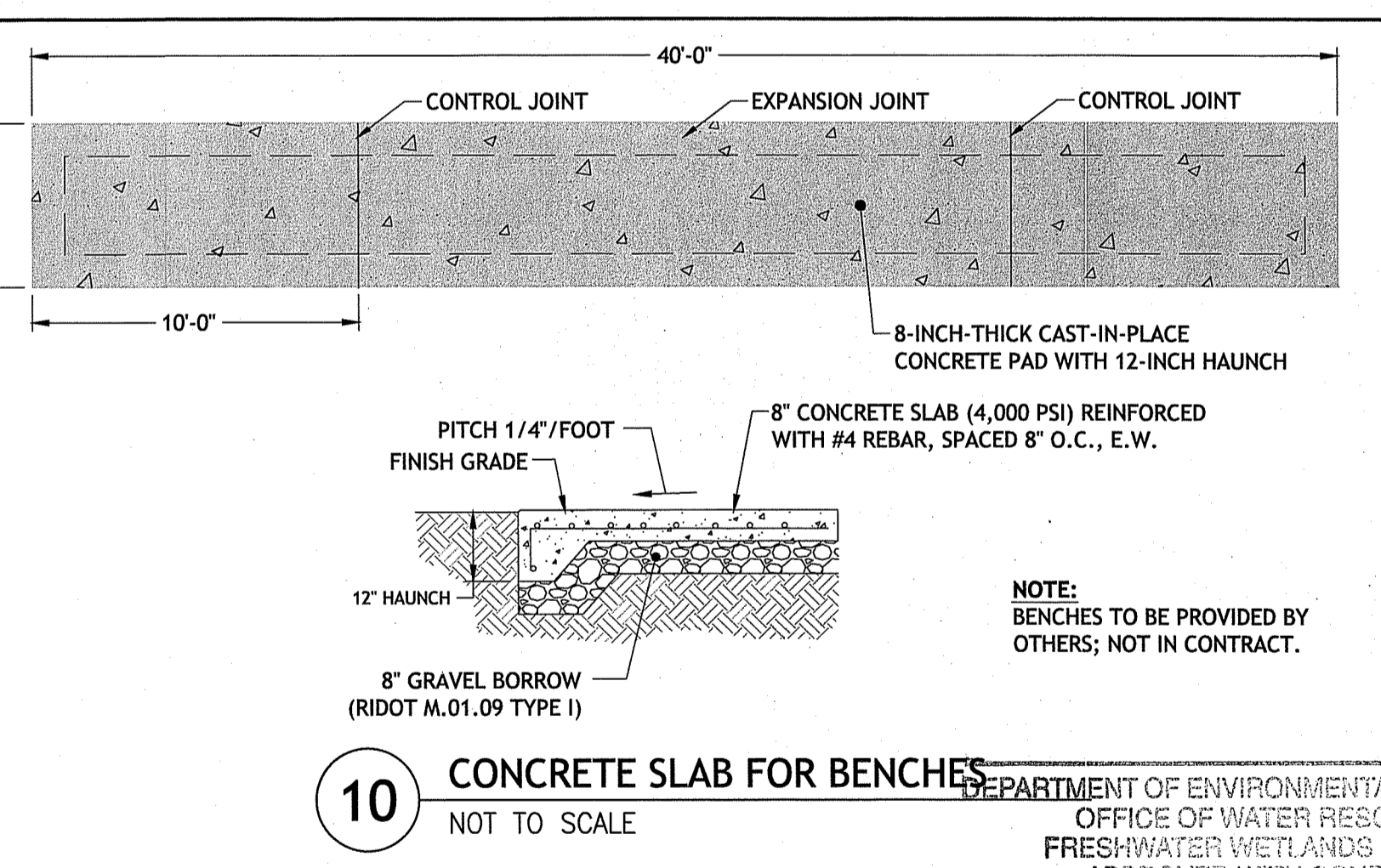
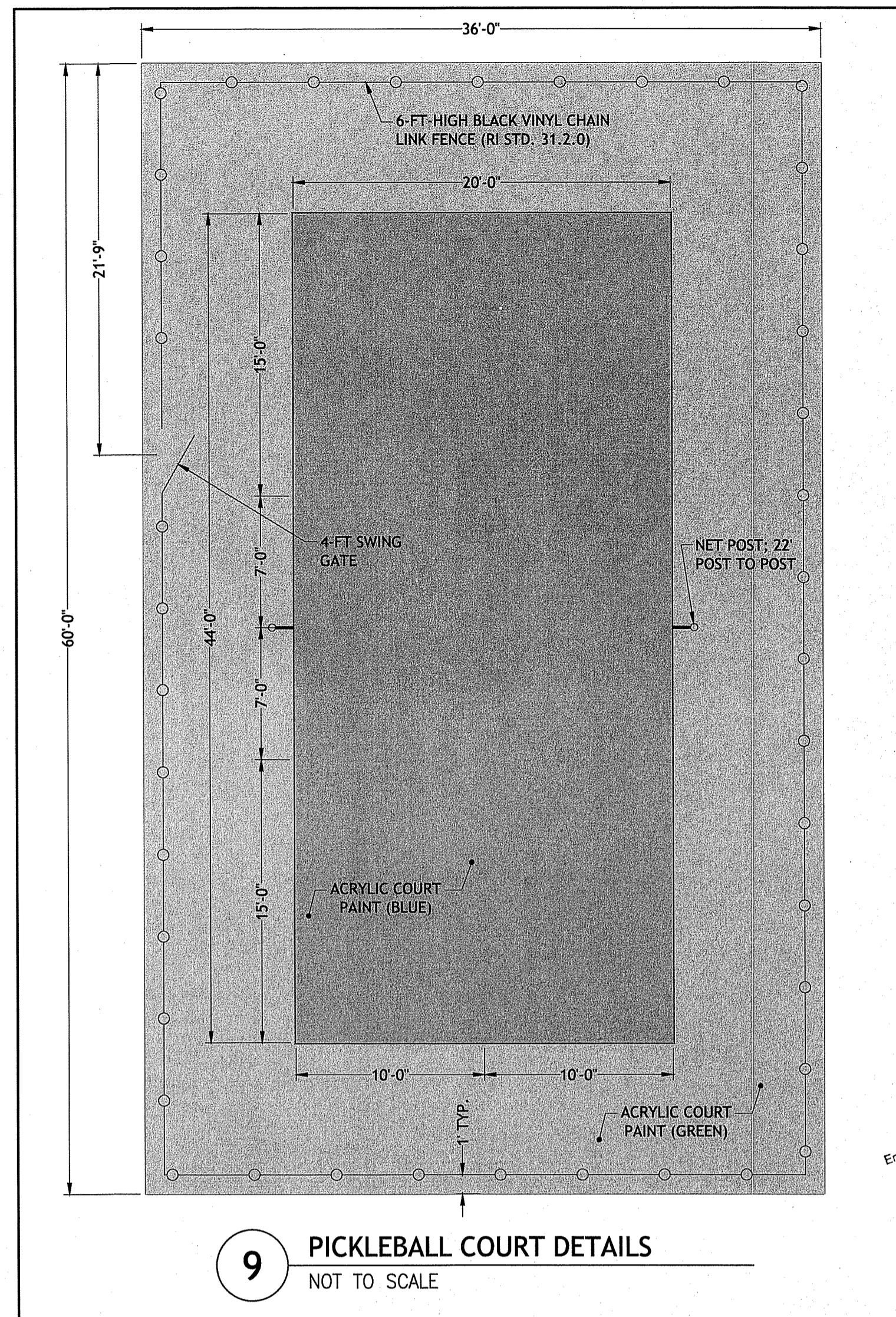
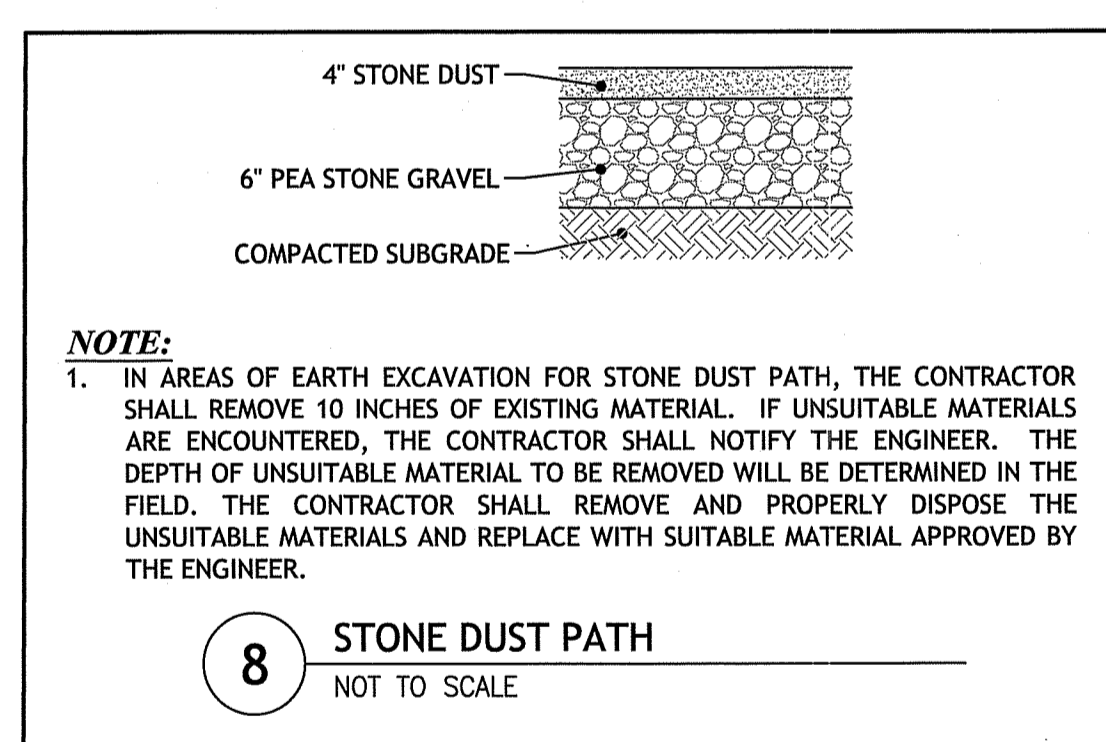
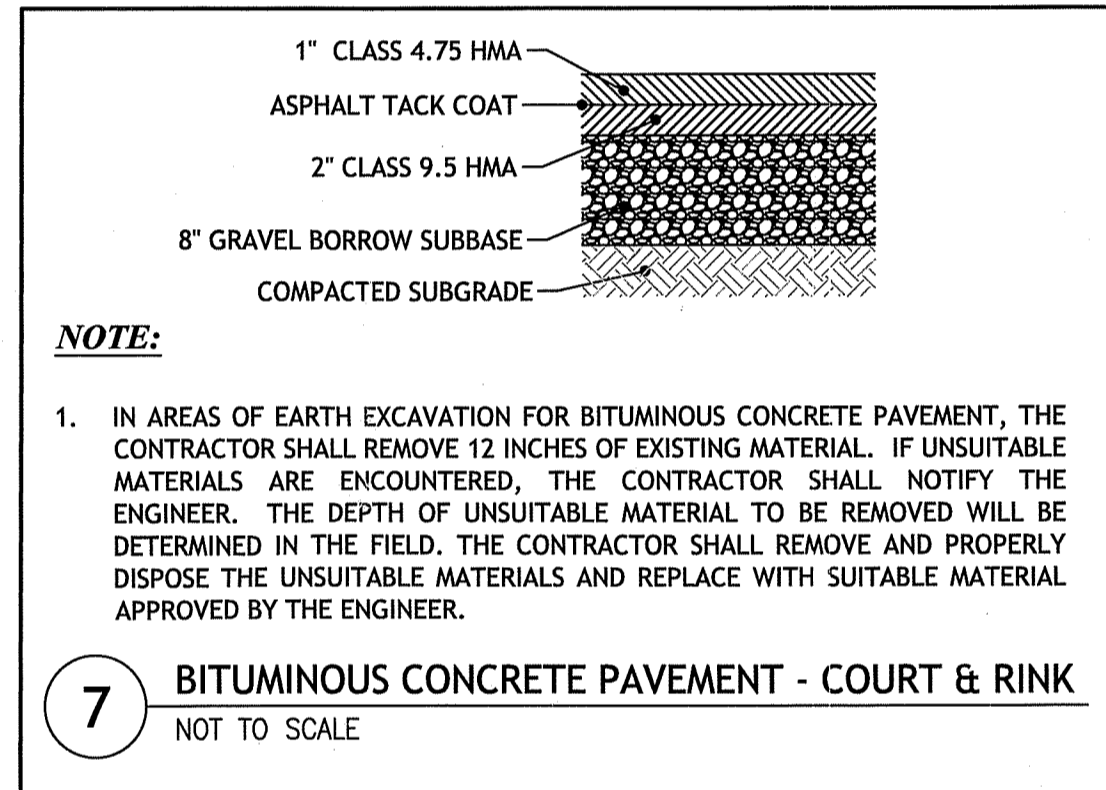
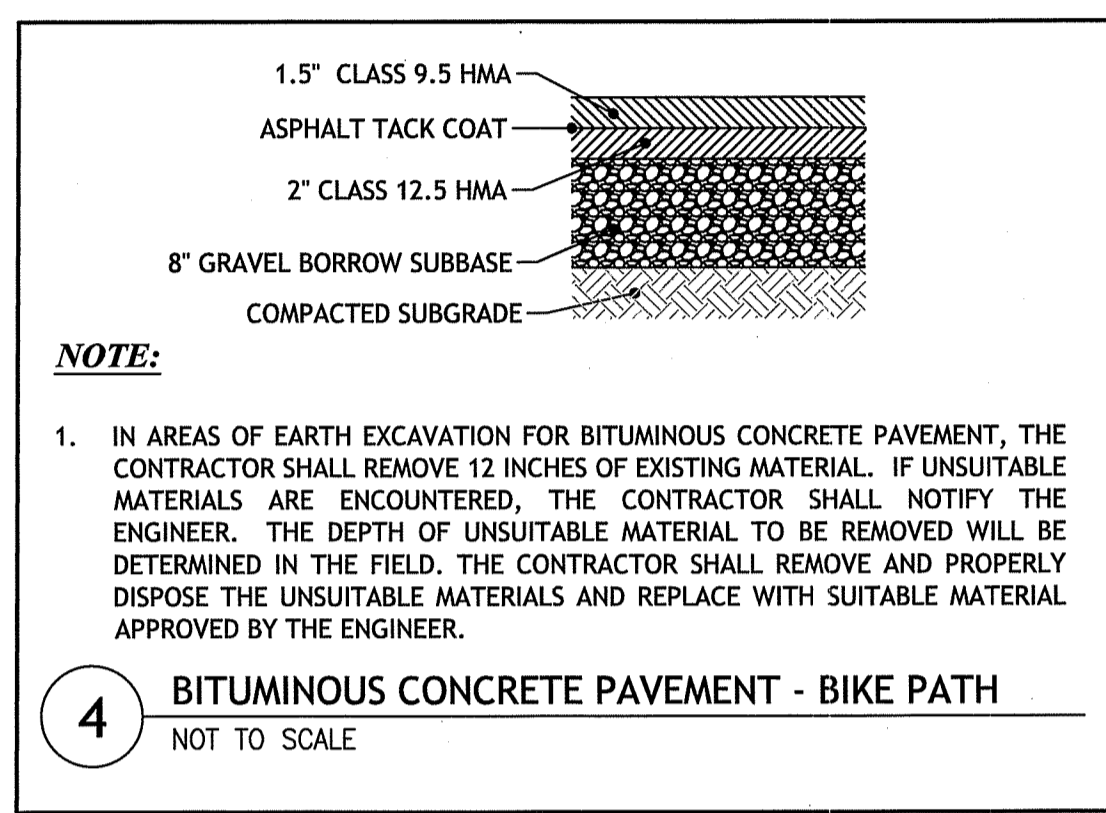
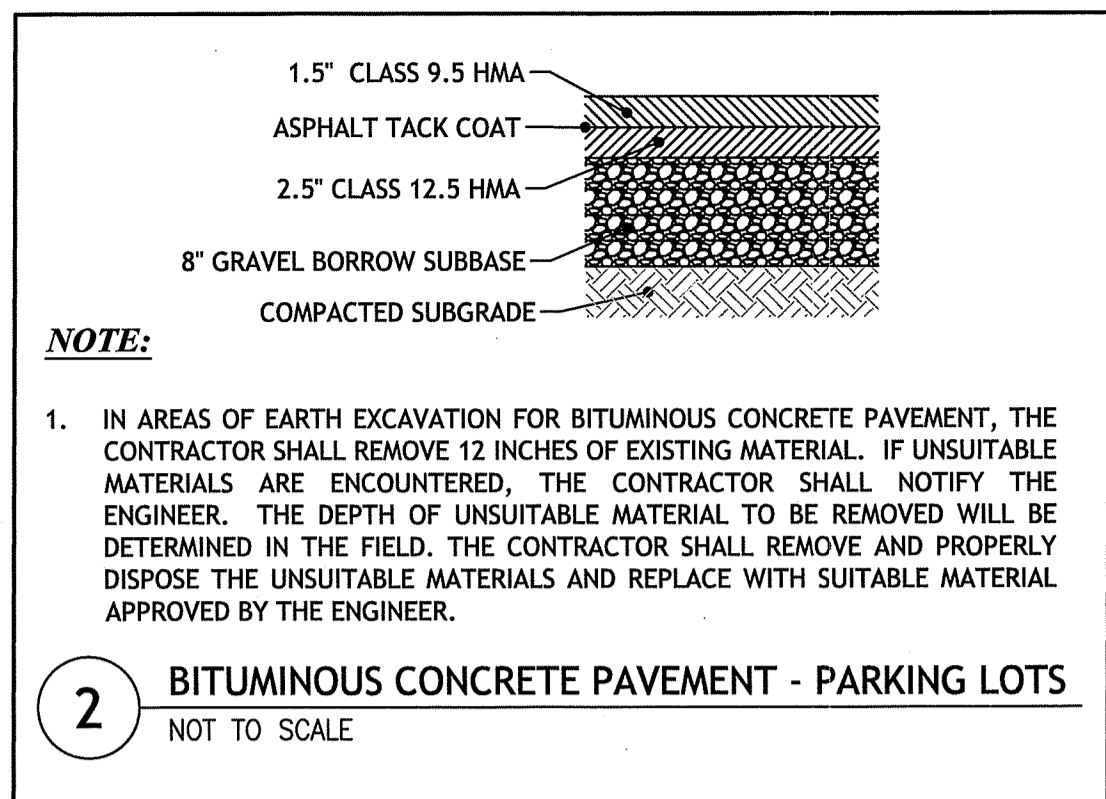
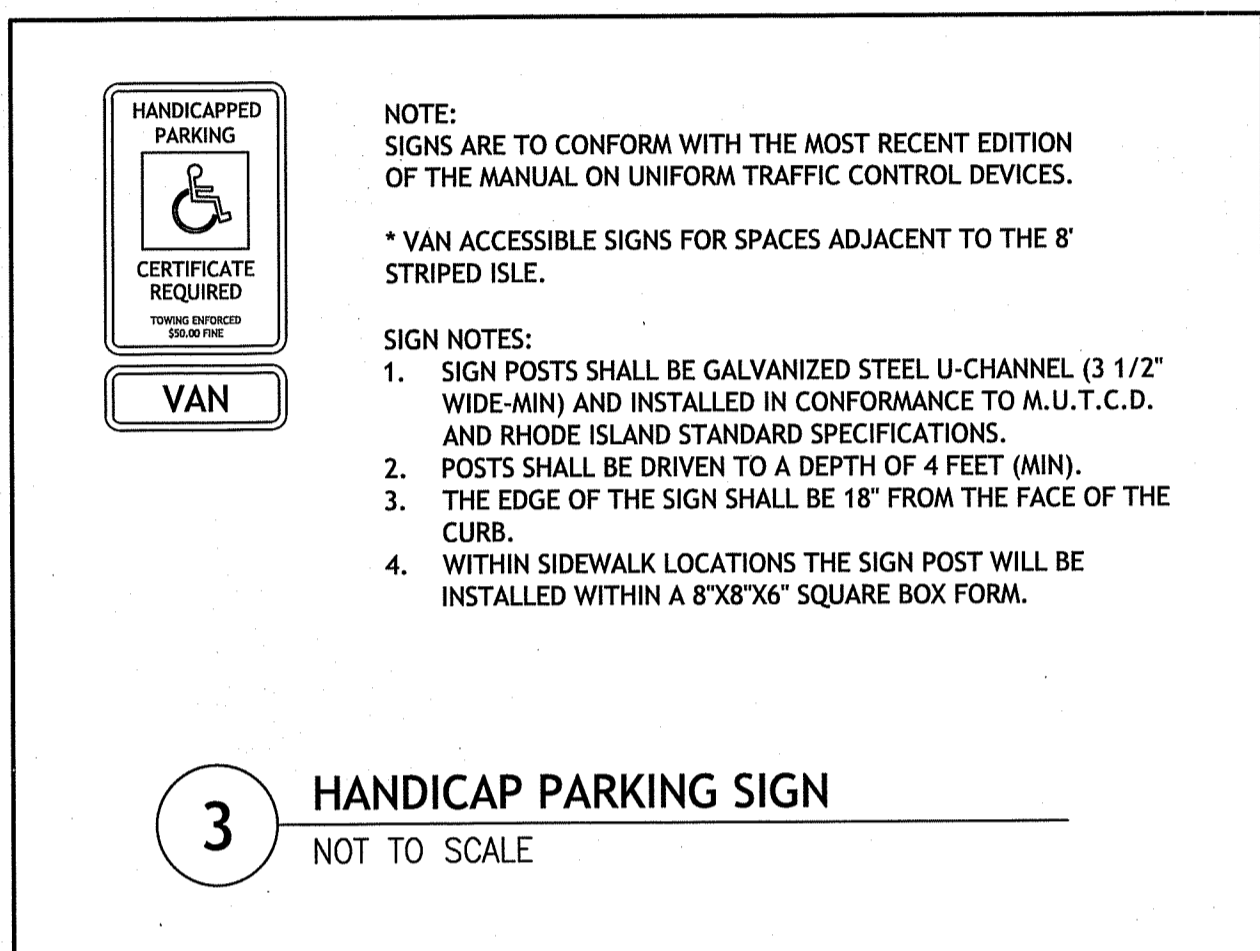
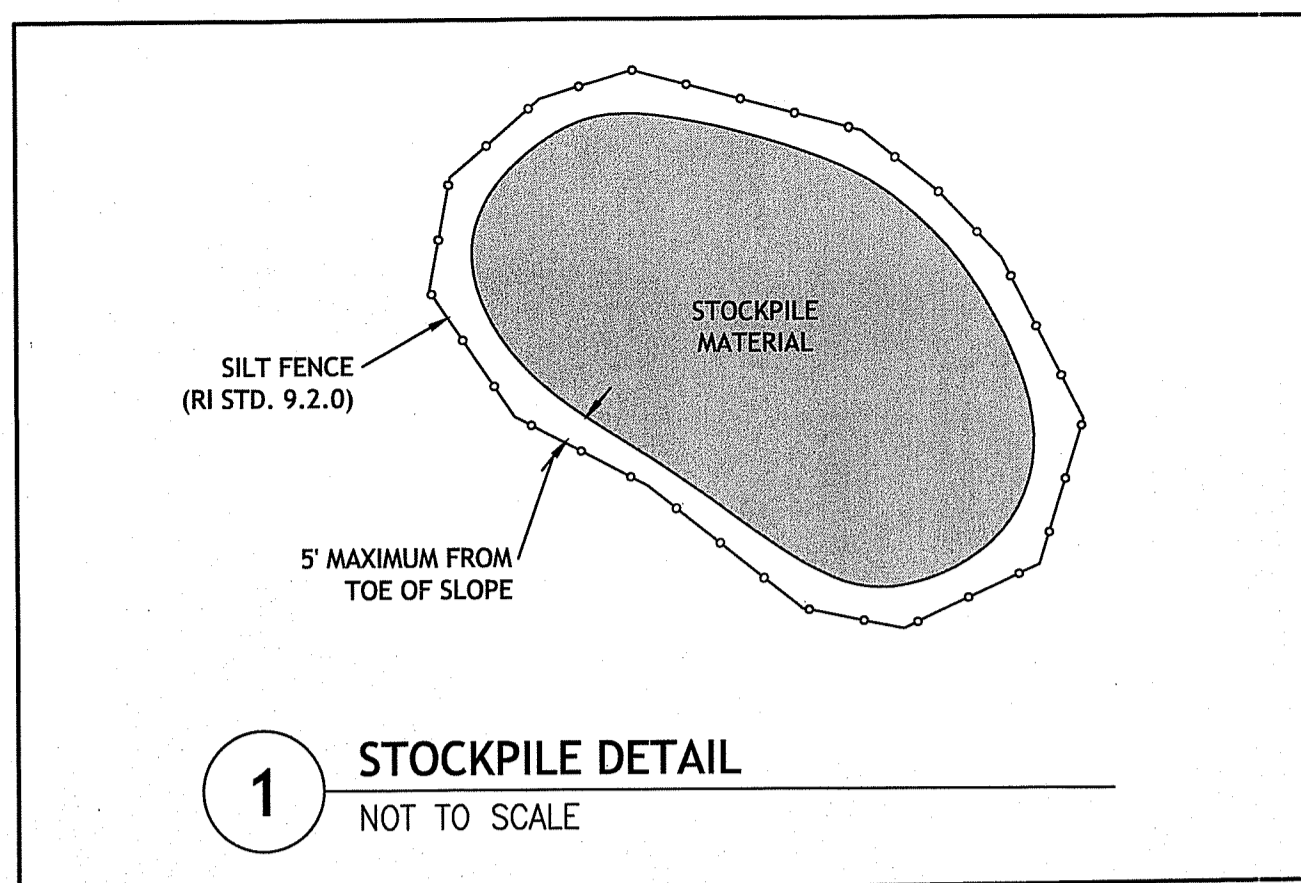
REVISIONS:  
NO. DATE DESCRIPTION  
1. 8/6/19 RIDOT/RIDEM RTC

ISSUED FOR PERMITTING

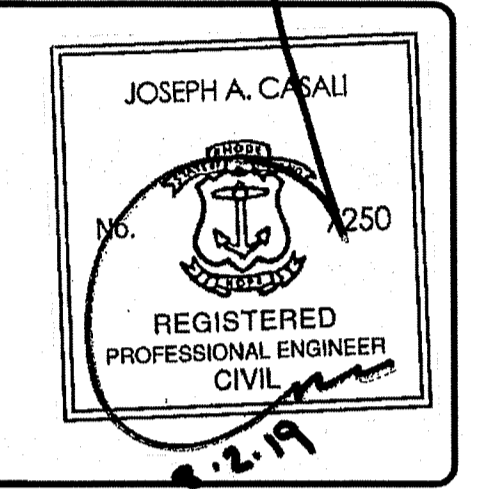
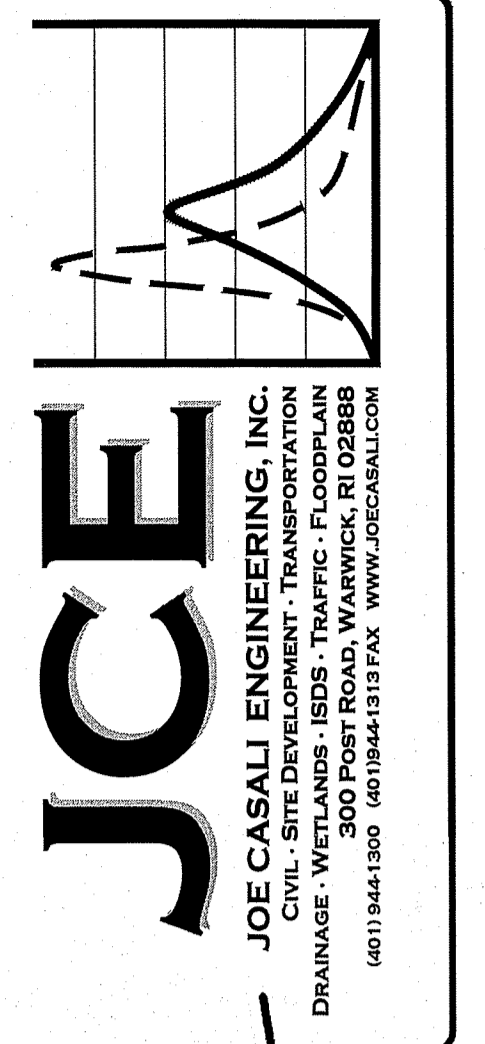
**RI STANDARD DETAILS**

**SHEET 7 OF 10**

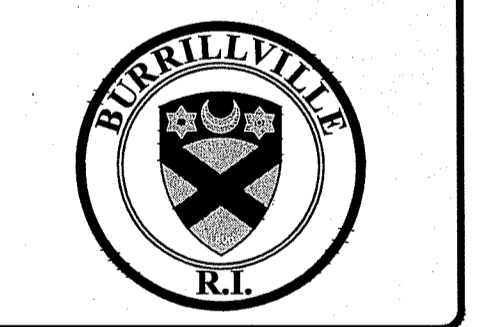
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED SEP 11 2019 FILE # 19-0156  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
Nancy L. Freeman



Environmental Management  
AUG 6 2019  
Office of Water Resources



**OAKLAND-MAPLEVILLE BIKE PATH**  
1145 VICTORY HIGHWAY  
BURRILLVILLE, RHODE ISLAND  
AP 179, LOTS 89 & 90



REVISIONS:	NO.	DATE	DESCRIPTION
	1	8/6/19	RIDOT/RIDEM RTC

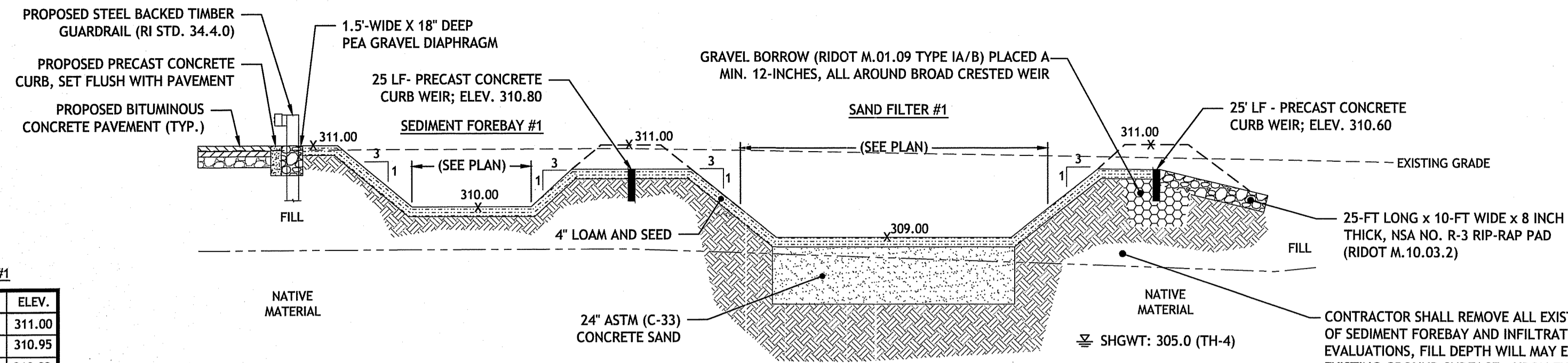
DESIGNED BY: DRD  
DRAWN BY: SD/SEP  
CHECKED BY: JAC  
DATE: MAY 2019  
PROJECT NO: 05-92ay

ISSUED FOR PERMITTING

**SITE DETAILS I**

**SHEET 8 OF 10**

Q:\05-92\_Town of Burrillville\05-22ay Oakland-Mapleville Bike Path\ACAD\Oakland-Mapleville Bike Path [PBEWIT SET Rev. 1].dwg, Aug. 05, 2019 2:50pm

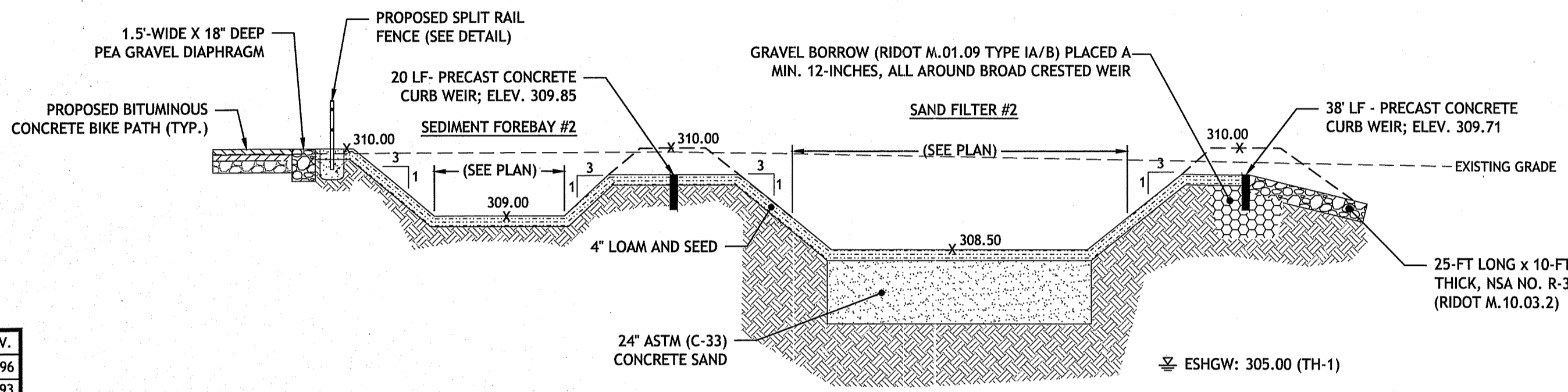


SAND FILTER #1	
DESCRIPTION	ELEV.
100 YEAR STORM	310.80
25 YEAR STORM	310.74
10 YEAR STORM	310.69
2 YEAR STORM	310.37
1 YEAR STORM	309.76
TOP OF INFILT. BASIN	311.00
BOTTOM OF INFILT. BASIN	309.00
BOTTOM OF SAND FILTER	306.67

SEDIMENT FOREBAY #1	
DESCRIPTION	ELEV.
100 YEAR STORM	311.00
25 YEAR STORM	310.95
10 YEAR STORM	310.92
2 YEAR STORM	310.88
1 YEAR STORM	310.86
TOP OF SED. FOREBAY	311.00
BOTTOM OF SED. FOREBAY	310.00

15 SEDIMENT FOREBAY & SAND FILTER #1 DETAIL SECTION A-A  
NOT TO SCALE

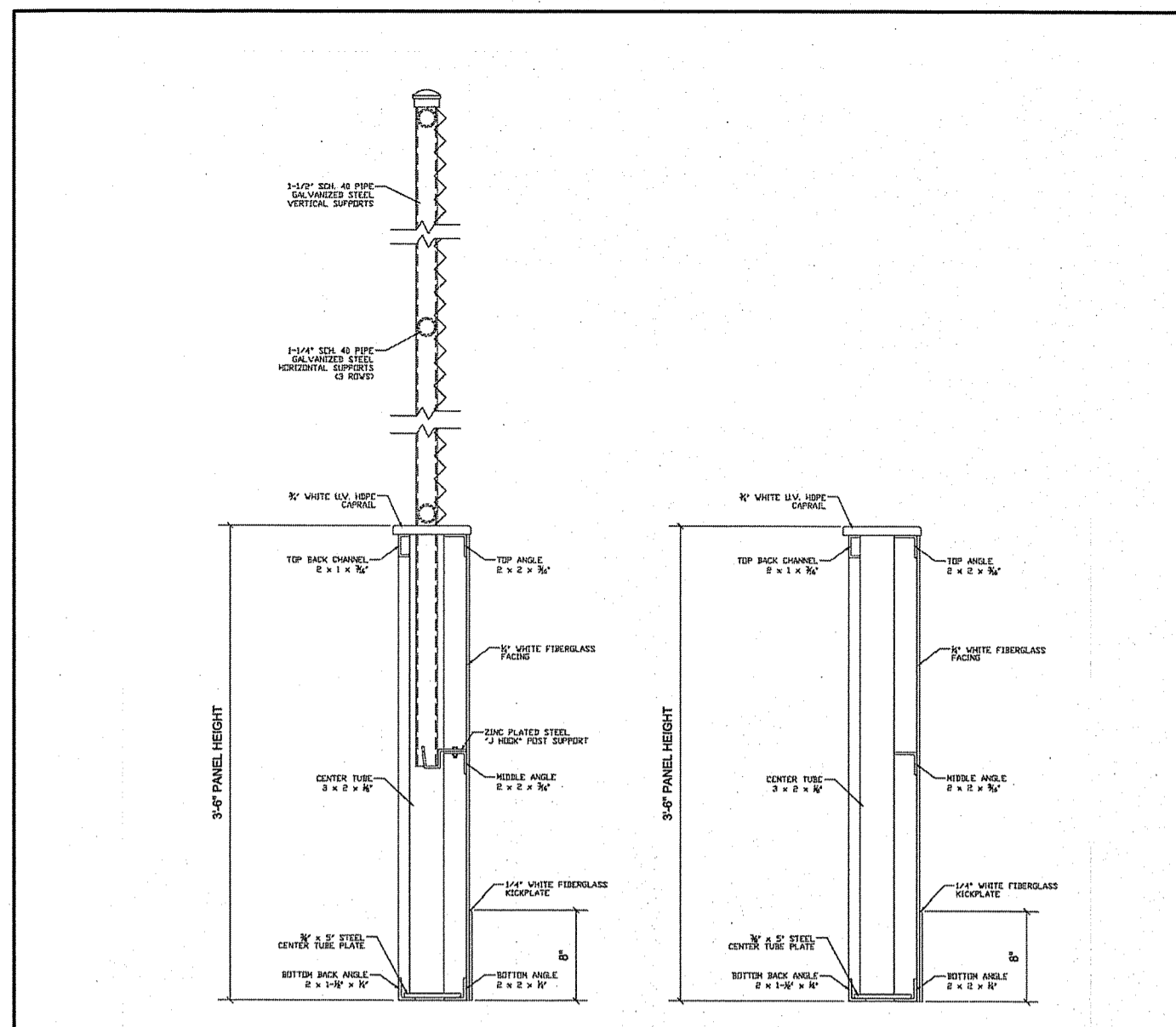
CONTRACTOR SHALL REMOVE ALL EXISTING FILL FROM WITHIN FOOTPRINT OF SEDIMENT FOREBAY AND INFILTRATION BASIN. BASED ON SOIL EVALUATIONS, FILL DEPTH WILL MAY EXTEND TO 5- FEET BELOW THE EXISTING GROUND SURFACE. UPON EXPOSURE OF NATIVE MATERIAL, CONTRACTOR SHALL NOTIFY DESIGN ENGINEER FOR REVIEW AND APPROVAL. BACKFILL VOID WITH BANK RUN GRAVEL IN MINIMUM 12-INCH-THICK LOOSE LIFTS, COMPACTED TO A MINIMUM OF 85% MODIFIED PROCTOR AND A MAXIMUM OF 92% MODIFIED PROCTOR. CONTRACTOR SHALL SUBMIT CERTIFIED LABORATORY TEST RESULTS INDICATING THAT THE IMPORTED GRAVEL BORROW MATERIAL HAS AN INFILTRATION RATE GREATER THAN OR EQUAL TO THE DESIGN INFILTRATION RATE OF 2.41 INCHES/HOUR (4.82 FT/DAY).



SAND FILTER #2	
DESCRIPTION	ELEV.
100 YEAR STORM	309.85
25 YEAR STORM	309.77
10 YEAR STORM	309.63
2 YEAR STORM	308.78
1 YEAR STORM	308.50
TOP OF INFILT. BASIN	310.00
BOTTOM OF INFILT. BASIN	308.50
BOTTOM OF SAND FILTER	306.17

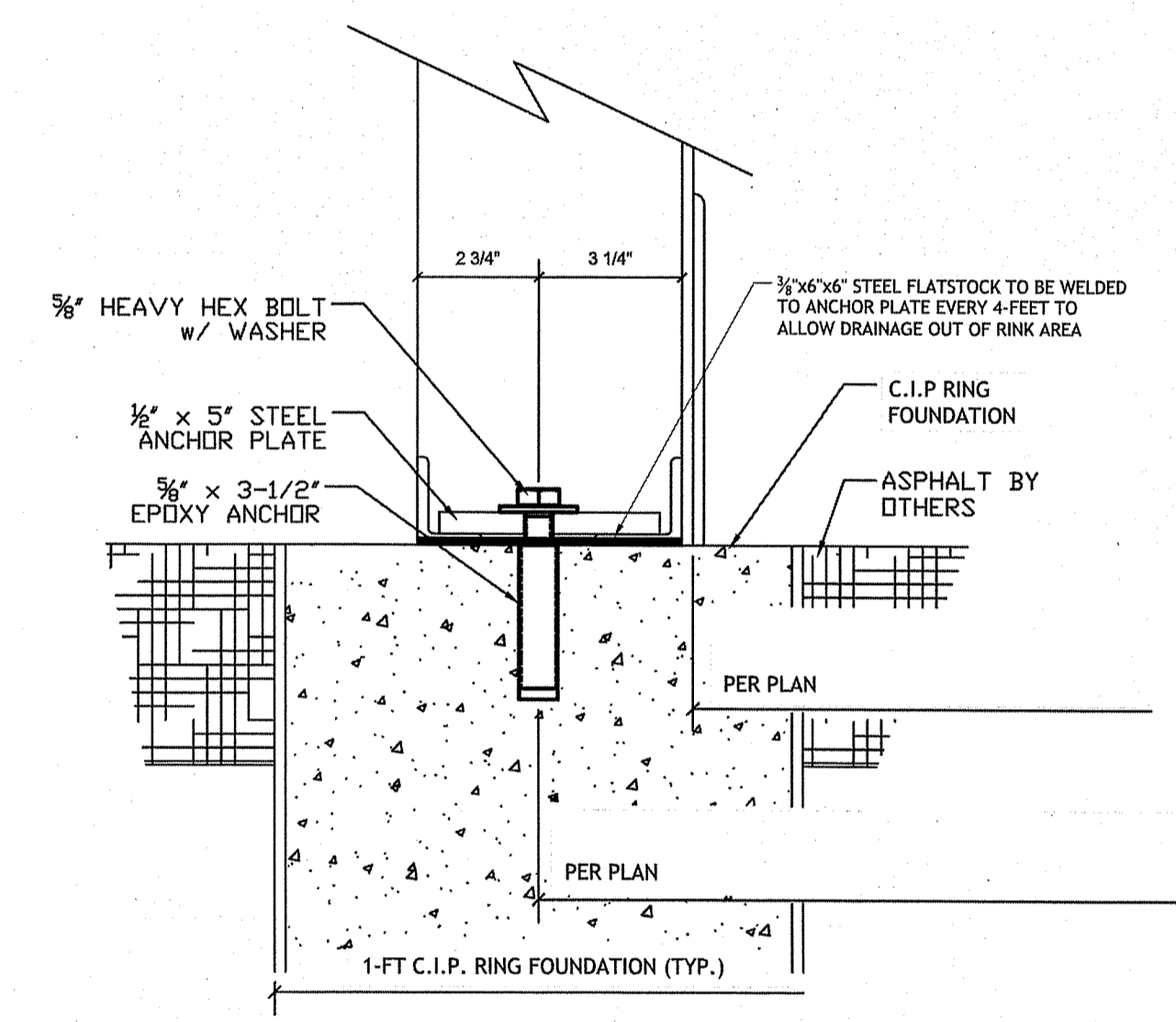
SEDIMENT FOREBAY #2	
DESCRIPTION	ELEV.
100 YEAR STORM	309.96
25 YEAR STORM	309.93
10 YEAR STORM	309.92
2 YEAR STORM	309.90
1 YEAR STORM	309.89
TOP OF SED. FOREBAY	310.00
BOTTOM OF SED. FOREBAY	309.00

16 SEDIMENT FOREBAY & SAND FILTER #2 DETAIL SECTION B-B  
NOT TO SCALE

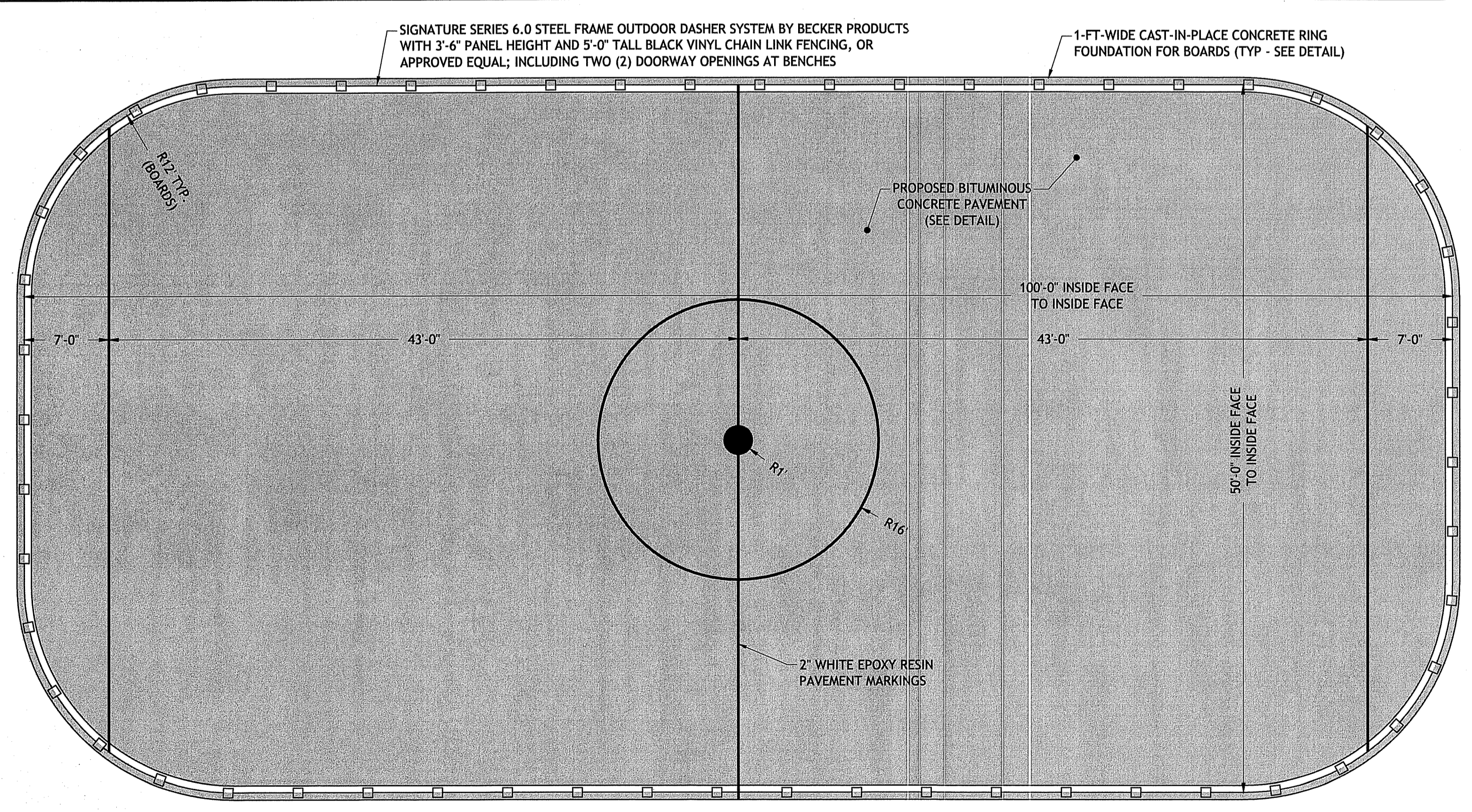


17 STREET HOCKEY RINK DASHER - TYP. SECTION  
NOT TO SCALE

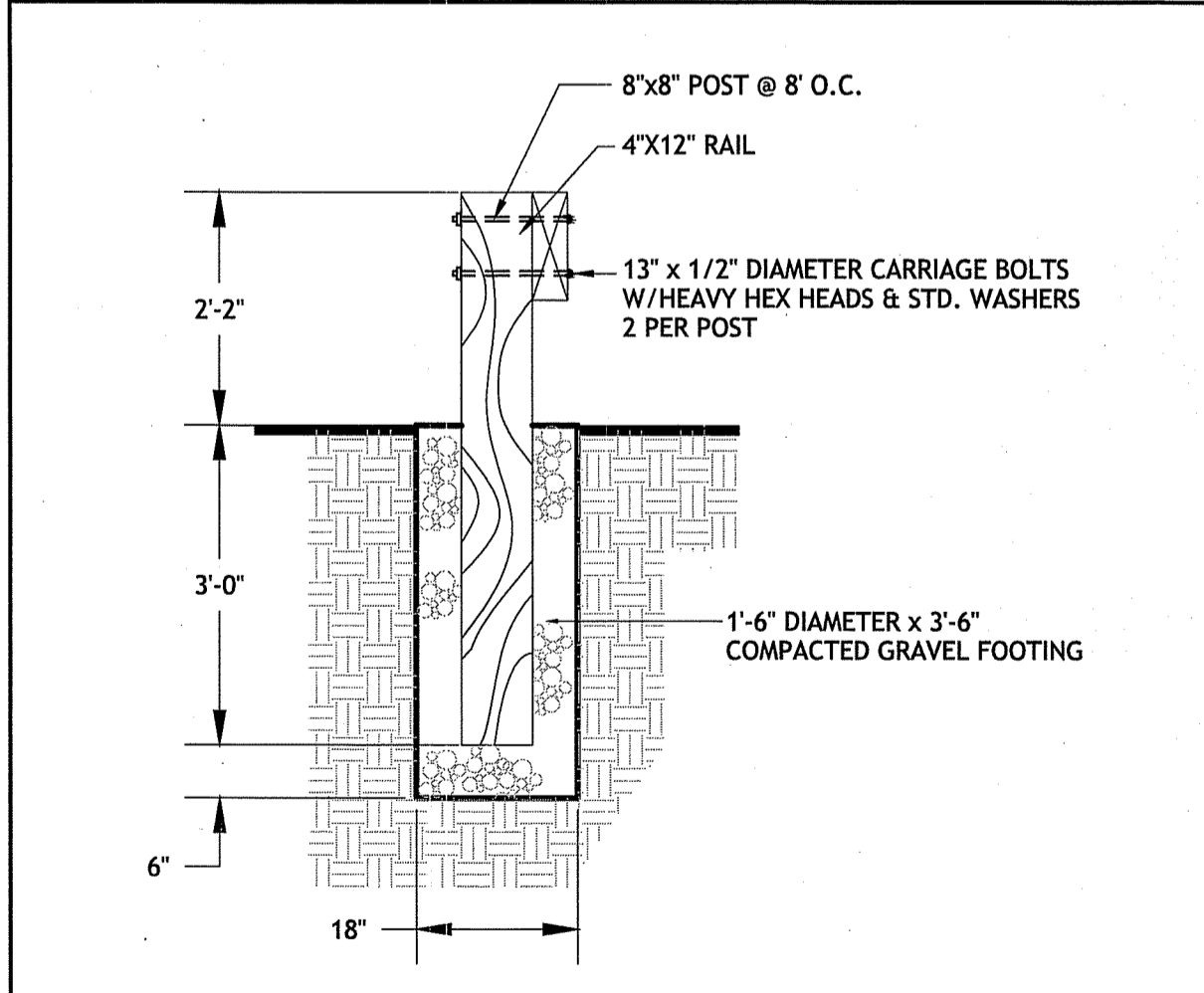
Environmental Management  
AUG 6 2019  
Office of Water Resources



18 STREET HOCKEY RINK DASHER CONNECTION  
NOT TO SCALE

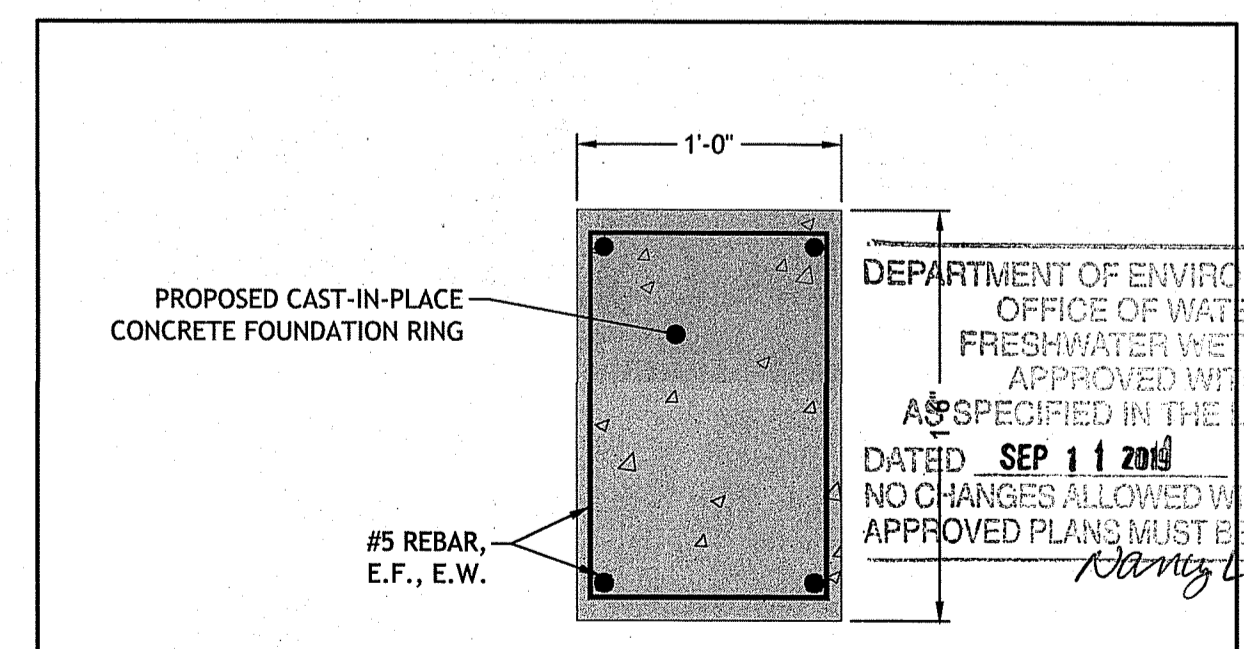


19 STREET HOCKEY RINK DETAILS  
NOT TO SCALE



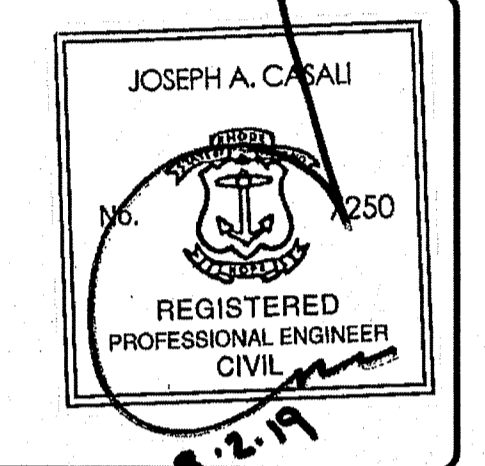
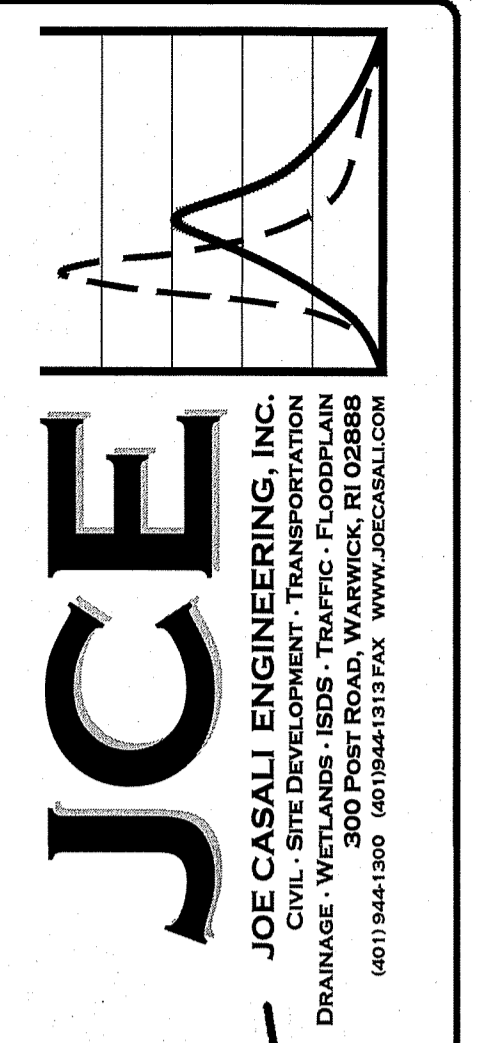
NOTES:  
1. ALL WOOD SHALL BE PRESSURE TREATED.

20 TIMBER GUARDRAIL DETAIL  
NOT TO SCALE

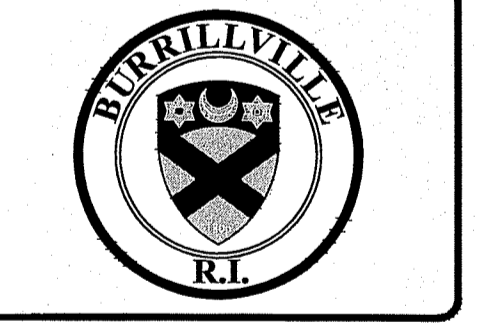


21 RING FOUNDATION FOR DASHERS  
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED SEP 11 2019 FILE # 19-0156  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION  
*Randy Freeman*



OAKLAND-MAPLEVILLE BIKE PATH  
1145 VICTORY HIGHWAY  
BURRILLVILLE, RHODE ISLAND  
AP 179, LOTS 89 & 90



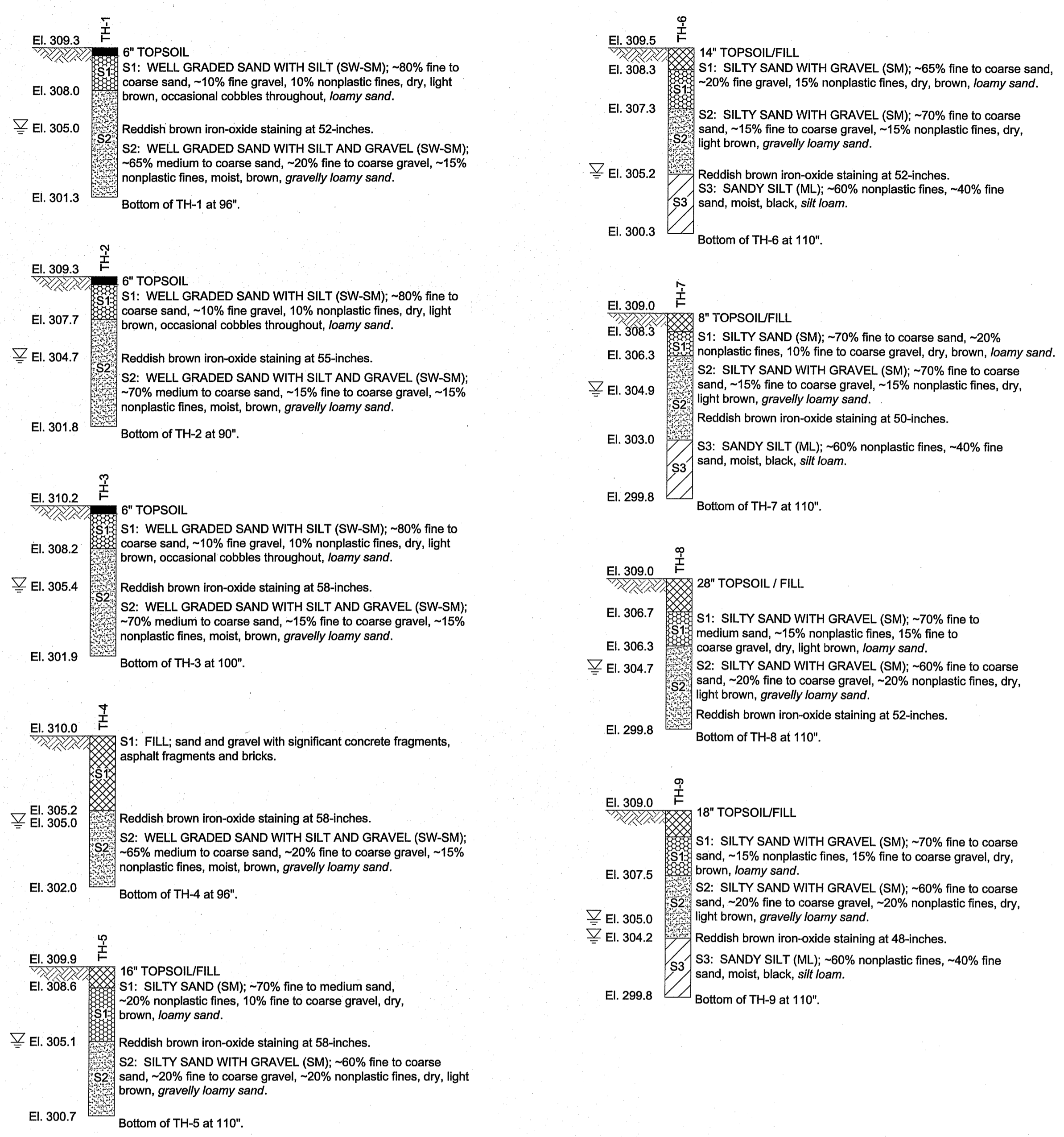
REVISIONS:	
NO.	DATE DESCRIPTION
1	8/6/19 RIDOT/RIDEM RTC

ISSUED FOR PERMITTING

SITE DETAILS II

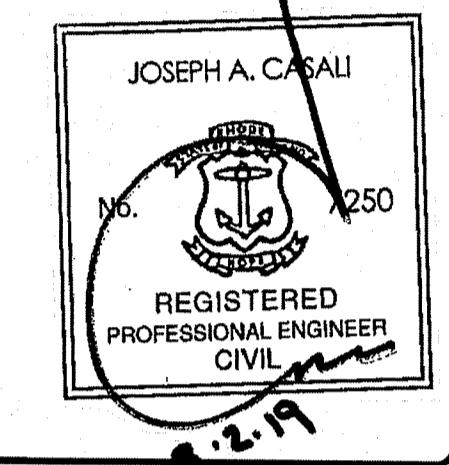
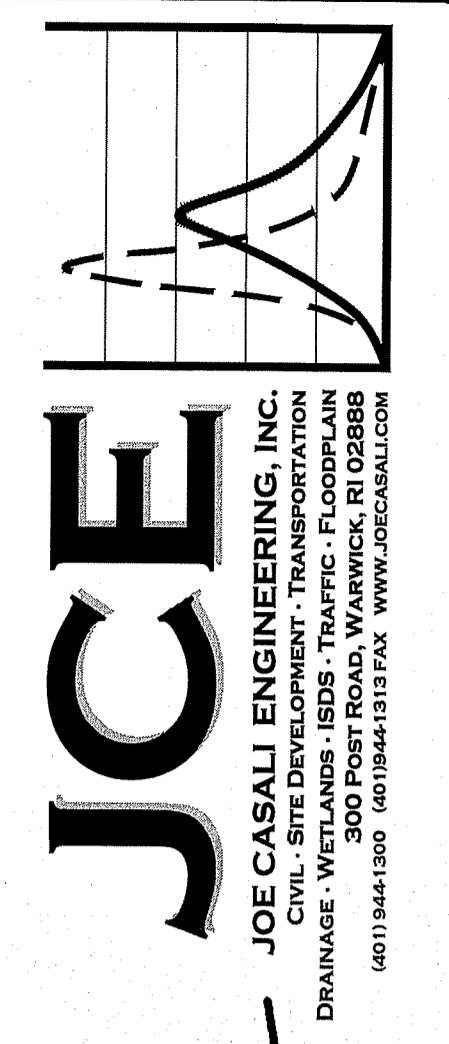
SHEET 9 OF 10

Q:\05-92\_Town of Burrillville\05-92ay Oakland-Mapleville Bike Path\PERMIT SET (Rev. 1).dwg Aug. 05, 2019 2:50pm

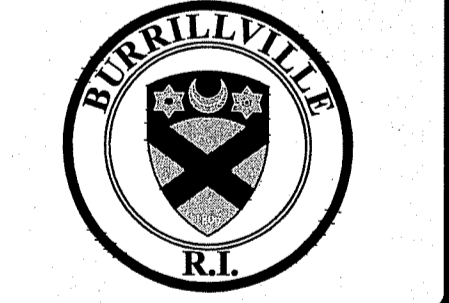


22 SOIL EVALUATION TEST HOLE LOGS  
 NOT TO SCALE

Environmental Management  
 AUG 6 2019  
 Office of Water Resources



**OAKLAND-MAPLEVILLE BIKE PATH**  
 1145 VICTORY HIGHWAY  
 BURRILLVILLE, RHODE ISLAND  
 AP 179, LOTS 89 & 90



REVISIONS:	
NO.	DATE DESCRIPTION
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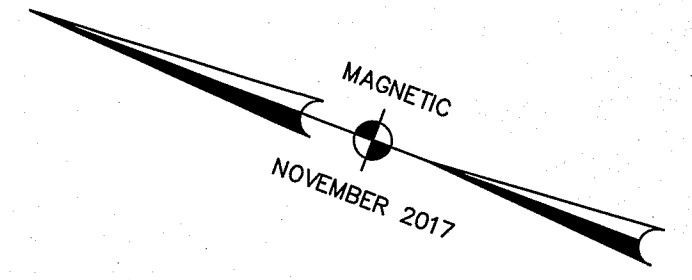
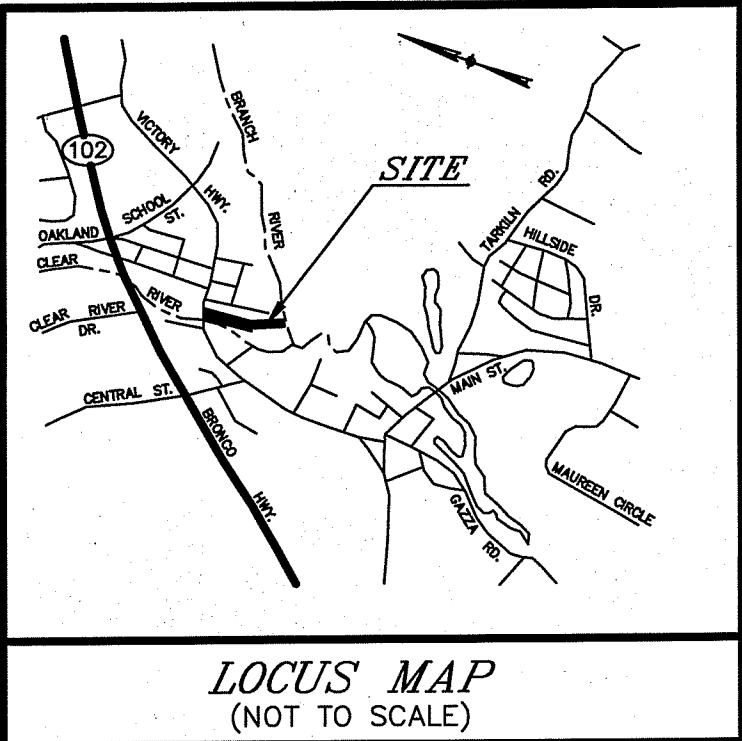
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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*Dany L. Freeman*

DESIGNED BY: DRD  
 DRAWN BY: SD/SEP  
 CHECKED BY: JAC  
 DATE: MAY 2019  
 PROJECT NO: 05-92ay

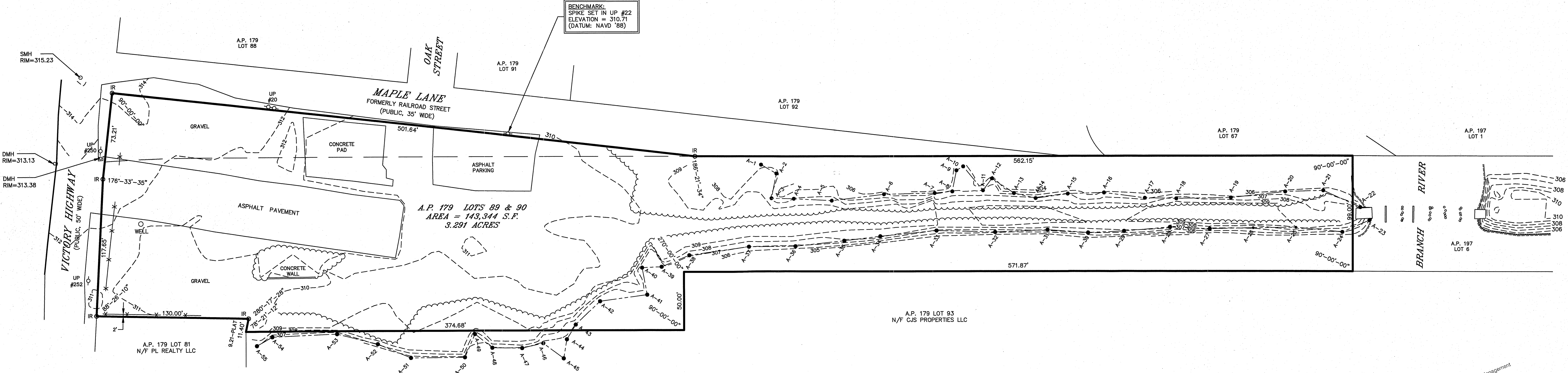
ISSUED FOR PERMITTING

**SUBSURFACE  
 EXPLORATION  
 LOGS**

**SHEET  
 10 OF 10**



BENCHMARK:  
SPIKE SET IN UP #22  
ELEVATION = 310.71  
(DATUM: NAVD '88)



**LEGEND:**

EXISTING CONTOUR	---310---
EDGE OF PAVEMENT	=====
EDGE OF PAVEMENT WITH BERM	=====
WETLAND EDGE WITH FLAG	-----●-----
PROPOSED IRON ROD	○ IR

**REFERENCE:**

SEE PLAN ENTITLED: "RIGHT OF WAY AND TRACK MAP THE NEW YORK NEW HAVEN AND HARTFORD R.R. CO. OPERATED BY THE NEW YORK NEW HAVEN AND HARTFORD R.R. CO. FROM PROVIDENCE TO DOUGLAS JUNCTION STATION 1012+60 TO STATION 1065+40 TOWN OF BURRILLVILLE STATE OF R.I. SCALE: 1" = 100 FT DATE JUNE 30 1915" SHEET 18 OF 26 SHEETS.

SEE PLAN ENTITLED: FINAL ADMINISTRATIVE SUBDIVISION ROULEAU PLAT ASSESSOR'S PLAT 179 LOTS 74 & 75 RECORDED IN PLAT 25 PAGE 60 AND A COPY ON SLIDE 467.

SEE PLAN ENTITLED: SURVEY OF PROPERTY FOR MATHIAS MARCOUX, VILLAGE OF OAKLAND, TOWN OF BURRILLVILLE NOVEMBER 1984 RECORDED IN PLAT BOOK 15 PAGE 50 AND A COPY ON SLIDE 284.

SEE PLAN ENTITLED: Meadow View Plat, Oakland R.I. By Frank E. Waterman, Aug. 1909" RECORDED IN PLAT BOOK 1 PAGE 112 AND A COPY ON SLIDE 22.

DEED BOOK 202 PAGE 1150

**NOTES:**

THE UTILITIES HEREON ARE SHOWN FROM FIELD LOCATION OF SURFACE FEATURES AND MAY NOT REPRESENT ALL UTILITIES ON THE SITE.

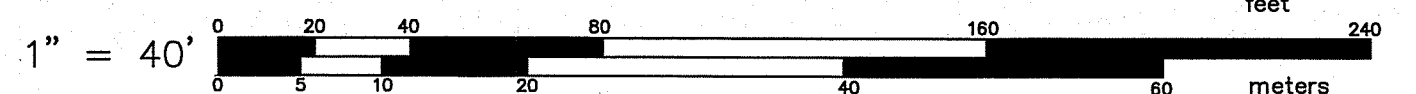
CONTACT DIG-SAFE, AS REQUIRED BY LAW, PRIOR TO ANY EXCAVATION ON THIS SITE. (1-888-DIG-SAFE or 811)

**CERTIFICATION:**

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: COMPREHENSIVE BOUNDARY SURVEY  
 MEASUREMENT SPECIFICATION: CLASS 1  
 VERTICAL CONTROL STANDARD: V-3  
 TOPOGRAPHIC SURVEY ACCURACY: T-2

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
 THIS PLAN AND SURVEY ARE A PERIMETER SURVEY AND EXISTING CONDITIONS PLAN. RAILROAD MONUMENTS FOUND AT STATION 1016+92.07 AND 1024+84.50 (CENTERLINE).



<b>INTERNATIONAL MAPPING &amp; SURVEYING CORP.</b>		
LAND SURVEYING CIVIL ENGINEERING PHOTOGRAMMETRIC MAPPING		
19 INDUSTRIAL DRIVE, SMITHFIELD, R.I. 02917 (401) 232-2620		
<b>EXISTING CONDITIONS PLAN</b>		
for JOE CASALI ENGINEERING		
on VICTORY HIGHWAY		
in BURRILLVILLE, R.I.		
A.P. 179 LOTS 89 & 90		
REVISIONS	DATE	NO.
DRAWN BY	K.R.R.	
CKD. BY	A.E.M.	
APPRD. BY	A.E.M.	
DATE	1/23/17	
SCALE	1"=40'	
SHEET	1 OF 1	
DWG. NO.	170701-SP	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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Environmental Management  
 AUG 6 2019  
 Office of Water Resources

STREET INDEX  
 VICTORY HIGHWAY  
 MAPLE LANE

BY: *Anthony E. Muscatelli*  
 ANTHONY E. MUSCATELLI, PLS #1718 O&A #386