

**SITE PLAN**  
SCALE: 1" = 100'

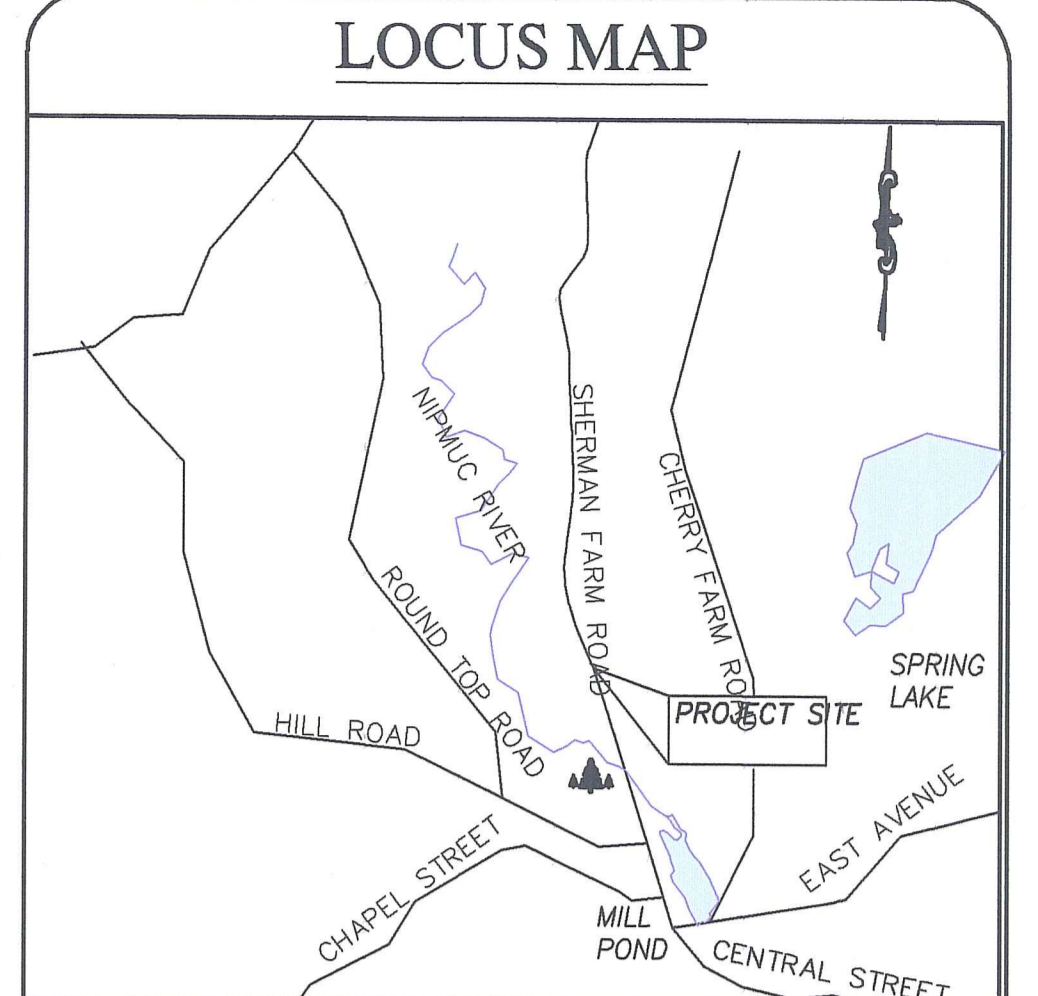
**REFERENCES:**

- REFERENCE IS MADE TO THOSE HIGHWAY PLATS LISTED AS: RIHP 444 (SHERMAN FARM ROAD, ROUTE 9B)
- PLAN OF LAND ENTITLED "FINAL MINOR SUBDIVISION FOR MARK BRIZZARD, PLAT 125 / LOT 38 SHERMAN FARM ROAD BURRILLVILLE, RHODE ISLAND, SHEET 1 OF 2" PREPARED BY INSITE ENGINEERING SERVICES, LLC & RECORDED IN BURRILLVILLE LAND EVIDENCE RECORDS SLIDE 2018-59 & 2018-60 ON 12/4/2019.
- REFERENCE MADE TO CERTAIN DEEDS RECORDED IN THE TOWN OF BURRILLVILLE LAND EVIDENCE RECORDS AS FOLLOWS: BK 1128, PAGE 45 (SUBJECT DEED) BK 1158, PAGE 194
- WETLAND DELINEATION BY: ECOSYSTEMS SOLUTIONS, INC. JULY 2021.
- THE B SERIES WETLAND DID NOT GET VERIFIED BY THE RIDEM.

HYDROLOGICAL SOIL GROUPS		
ABBREV.	SOILS NAME	SOIL CATEGORY
Hrc	Hinkley Gravelly Sand Loam, Hilly (Prime Farmland/State Importance)	A
Ccc	Canton and Charlton fine sandy loams, very rocky, 3 to 15 percent slopes.	B
CND	Canton and Charlton Very Stony Fine Sandy Loams, 15 to 25 percent slopes	B
Ss	Sudbury Sand Loam	B
Wha	Woodbridge Fine Sandy Loam, 0 to 3 percent slopes	C
Wb	Woodbridge Very Stony Fine Sandy Loam, 0 to 8 percent slopes	C
Wb	Woodbridge extremely stony fine sandy loam, 0 to 8 percent slopes	C
Wc	Wolpole sandy loam. Hydric Soils	D
Rf	Ridgebury, Whitman, and Lancaster extremely stony fine sandy loams	D

TEST HOLE DATA			
TEST HOLE	SOIL TEXTURE	ESTIMATED GROUNDWATER	COMMENT
1	0-10" LS, 10"-120" COS	120"	BY OTHERS: 5/14/19
2	0-10" LS, 10"-120" COS	120"	
A	COS, SOIL CAT 1m	8'-0"	JUCPE (5/6/2021)
B	STONY, COBBLE SAND, SG 1	8'-0"	JUCPE (5/6/2021)
P1	COS, SOIL CAT 1m	8'-0"	JUCPE (5/6/2021)
P2	COS, GRAVELLY SANDS	8'-0"	JUCPE (5/6/2021)
P3	COS, GRAVELLY SANDS	8'-0"	JUCPE (5/6/2021)

**RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF WATER RESOURCES**  
**FRESHWATER WETLANDS PROGRAM**  
**APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL**  
**DATED: OCT 25 2022 FILE #: 21-0228**  
**NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL**  
**APPROVED PLANS MUST BE AT CONSTRUCTION SITE**  
*Martin B. Weneck*



**NOTES:**

- THE SITE IS NOT LOCATED WITHIN DRINKING WATER SUPPLY WATERSHED AS DEFINED BY CRMC & RIDEM.
- A PORTION OF THIS PARCEL IS LOCATED WITHIN THE TOWN AQUIFER PROTECTION ZONE A-80, AS IT LIES WITHIN THE CLEAR RIVER GROUNDWATER RECHARGE ZONE. BOTH RESIDENTIAL & FARMING USES ARE PERMITTED IN THIS DISTRICT.
- NEITHER THIS SITE NOR ADJACENT PROPERTIES ARE LOCATED ON THE NATIONAL OR RHODE ISLAND REGISTER OF HISTORIC PLACES. THE "OTHNIEL YOUNG" HISTORIC CEMETERY (NO. BU-25) IS LOCATED ADJACENT TO THE PROPERTY. AN EASEMENT OVER THIS SUBJECT PROPERTY TO THE CEMETERY IS PROVIDED IN THE LAND EVIDENCE RECORDS.
- ACCORDING TO FEMA FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 44007C01356 REVISED 3/2/2009, THIS PARCEL IS LOCATED OUTSIDE OF 100 YEAR FLOOD ZONES.
- THERE ARE NO BUILDINGS OR NATURAL FEATURES LOCATED ON THE PARCEL WHICH ARE CURRENTLY LISTED OR ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES.
- THE SITE IS NOT CURRENTLY USED FOR AGRICULTURAL PURPOSES.
- PUBLIC UTILITIES (WATER & SEWER) ARE NOT AVAILABLE TO THIS SITE.

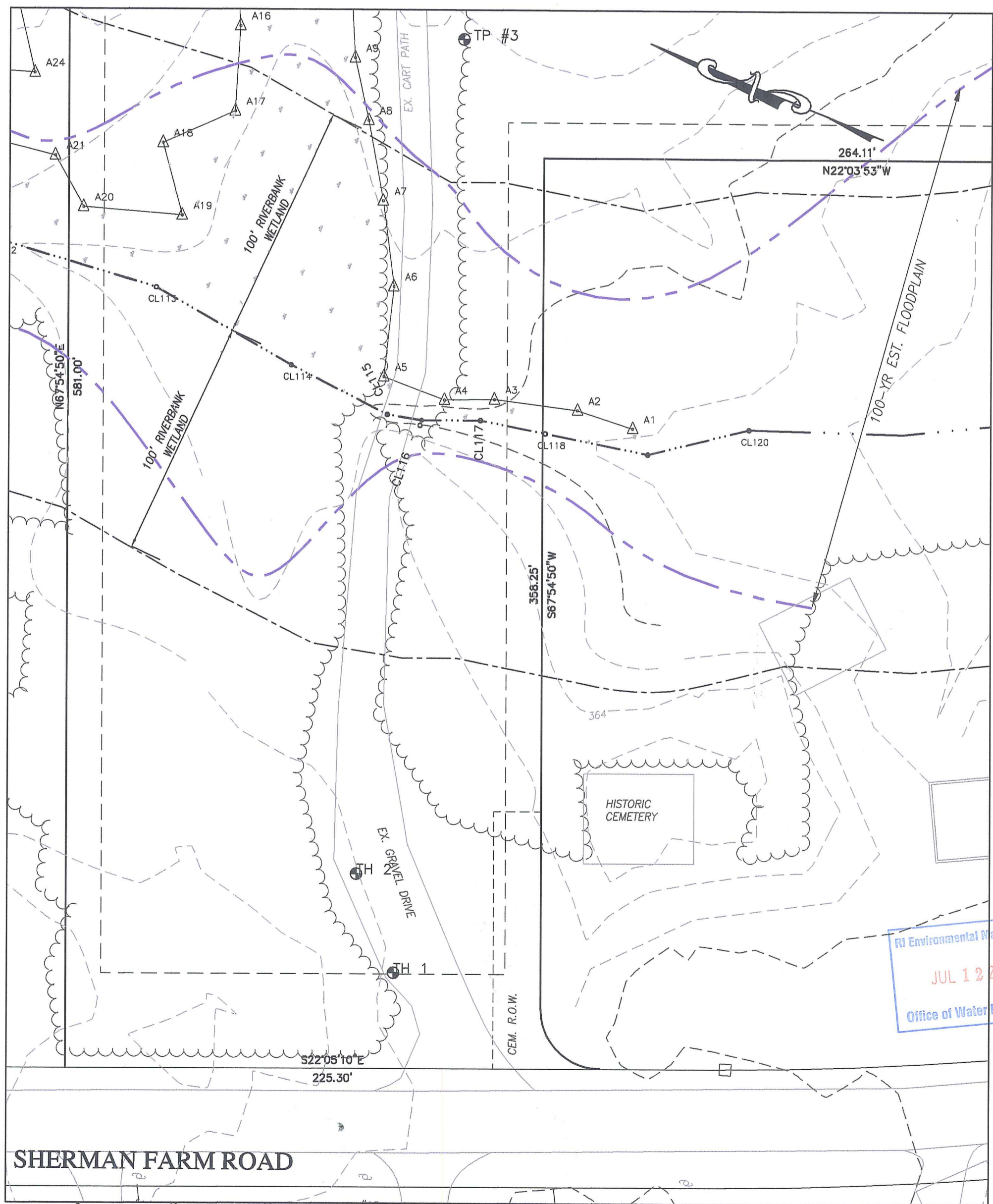
**DIMENSIONAL REGULATIONS**  
ZONING DISTRICT: F2

	REQUIRED	SITE
MINIMUM LOT AREA	2 ACRES	27.2 ACRES
MINIMUM LOT FRONTAGE *	300'	99.70'
MINIMUM LOT WIDTH	300'	99.70'
MINIMUM YARD SETBACKS:		
FRONT	40'	190'
SIDE	15'	40' / 26'
REAR	40'	50'
BUILDING COVERAGE	15%	< 1%
MAXIMUM BLDG. HEIGHT		
MAIN STRUCTURE	35'	
ACCESSORY STR.	15'	

\* VARIANCE GRANTED BY BURRILLVILLE ZONING BOARD

**LEGEND**

	EXISTING CONTOURS		PROPOSED CONTOUR
	EXISTING SITE CONDITIONS		PROPOSED SITE CONDITIONS
	EXISTING PROPERTY LINE		PROPOSED PROPERTY LINE
	BUILDING SETBACKS		PROPOSED BUILDING SETBACKS
	EXISTING FIELD STONE WALLS		PROPOSED RETAINING WALLS
	EXISTING WELLS		PROPOSED WELLS
	EXISTING WATERLINE		PROPOSED WATERLINE
	EXISTING DRAINAGE		PROPOSED DRAINAGE
	EXISTING UTILITY POLE		PROPOSED UTILITY POLE
	TEST HOLES/LEDGE PROBES		WOOD OR BRUSH LINE
	WELL HEAD RADIUS		LIMIT OF DISTURBANCE
	USDA SOIL BOUNDARIES		EROSION CONTROLS
	BIOLOGICAL WETLANDS		R.I.D.T STANDARD DETAIL
	STREAM CHANNEL		



**INSERT VIEW AT STREAM**  
SCALE: 1" = 40'

**EXISTING CONDITIONS**

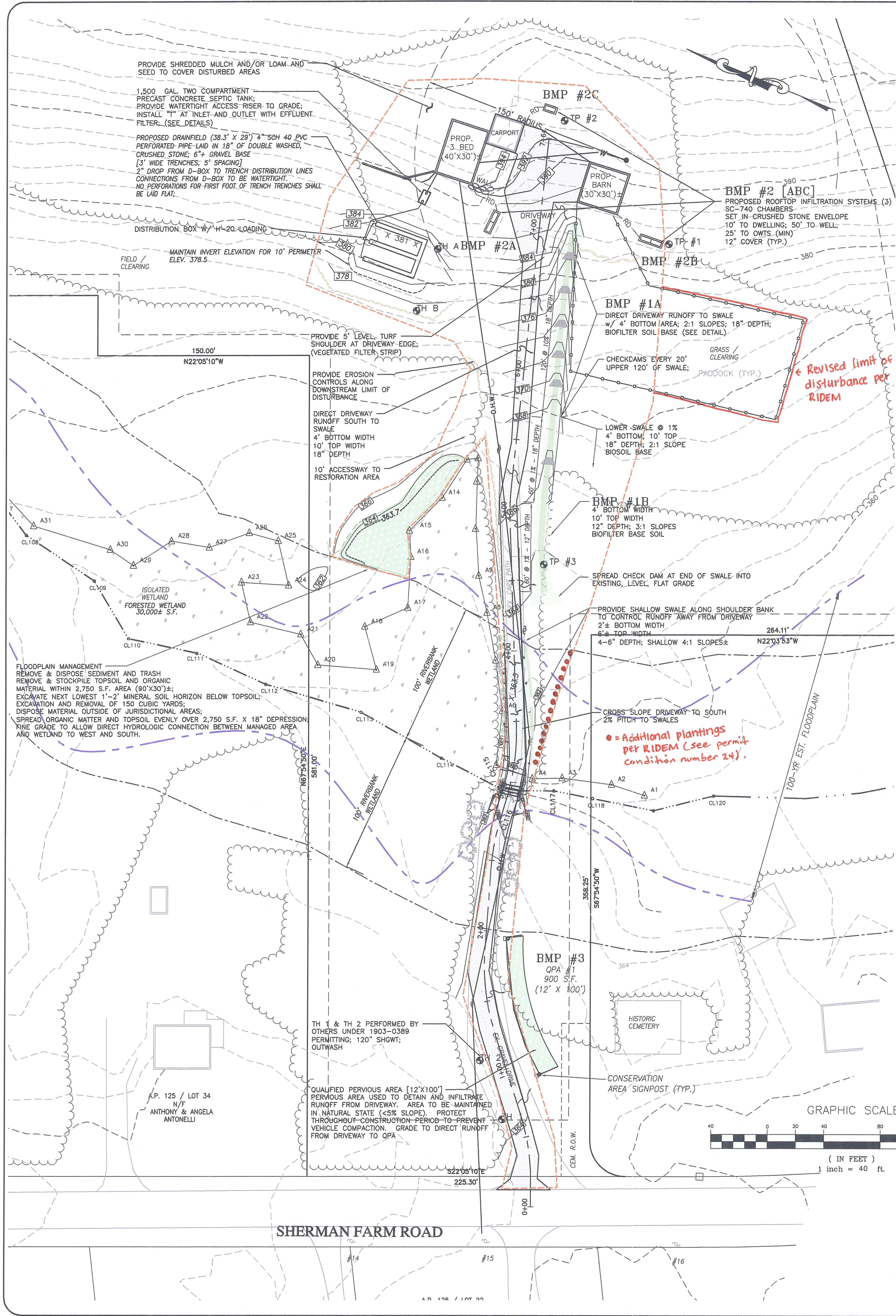
PLAT 125 / LOT 38  
SHERMAN FARM ROAD  
BURRILLVILLE, RHODE ISLAND

PREPARED BY:  
**AUGUST CIVIL DESIGN**  
 16 WEST MAIN STREET  
 WICKFORD, RHODE ISLAND 02852  
 PHONE: (401) 500-3769

OWNER / APPLICANT  
**MANDY & JOHN RIDER**  
 1150 VICTORY HIGHWAY  
 OAKLAND, RHODE ISLAND 02858

**TERRI A. GENTES**  
 No. 8672  
 Registered PROFESSIONAL ENGINEER CIVIL

REV.	DATE	DESCRIPTION	DATE: 7/13/21
1	9/17/21	LOD	SCALE: VARIES
2	3/22/22	RIDEM COMMENTS	
3	5/9/22	DEM Comments; Restoration	



**O.W.T.S. DESIGN DATA:**

NUMBER OF UNITS: 3 BEDROOM  
 DESIGN FLOW PER UNIT: 115 GPD/BEDROOM  
 TOTAL DESIGN FLOW: 345 GALLONS PER DAY

SEPTIC TANK REQUIREMENTS: 1,000 GAL FOR 1ST 3 BEDS + 250/BED  
 SEPTIC TANK PROVIDED: 1,000 GALLON 2-COMPARTMENT

DRAINFIELD REQUIREMENTS:  
 DESIGN LOADING RATE: 0.61 GAL/DAY/SF [SOIL TYPE 1m]  
 REQUIRED SQUARE FOOTAGE =  $\frac{345 \text{ GPD}}{0.61 \text{ GPD/SF}} = 566.6 \text{ SF}$   
 PROVIDED SQUARE FOOTAGE =  $3 \times 38.3' \times 29' + 2(10') = 566.6 \text{ SF}$

**O.W.T.S. ELEVATION SCHEDULE**

**BUILDING SEWER INVERTS:**  
 BUILDING SEWER INVERT: ELEV. 382.0

**TANK ELEVATIONS:**  
 1,500 GAL. SEPTIC TANK  
 INLET INV: ELEV. 380.55  
 OUT INV: ELEV. 380.25

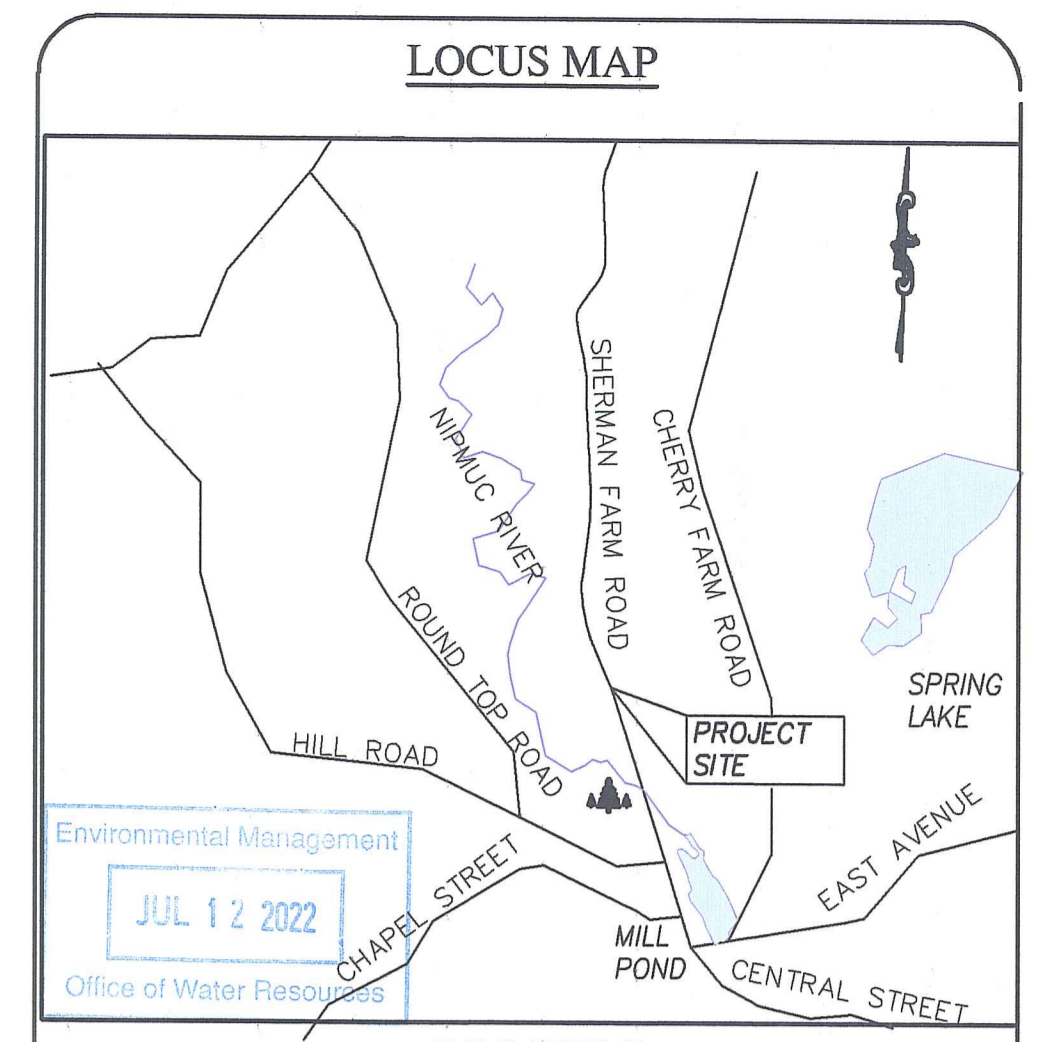
**DISTRIBUTION BOX**  
 DISTRIBUTION BOX IN: ELEV. 378.84  
 DISTRIBUTION BOX OUT: ELEV. 378.67

**DRAINFIELD**  
 DRAINFIELD INVERT: ELEV. 378.5  
 BOTTOM OF STONE: ELEV. 377.0  
 DESIGN ELEVATION: ELEV. 382.0  
 GROUNDWATER: (8'-0")+ ELEV. 374.0  
 COVER OVER SYSTEM MIN. ELEV. 380.0  
 COVER OVER SYSTEM MAX. ELEV. 381.0

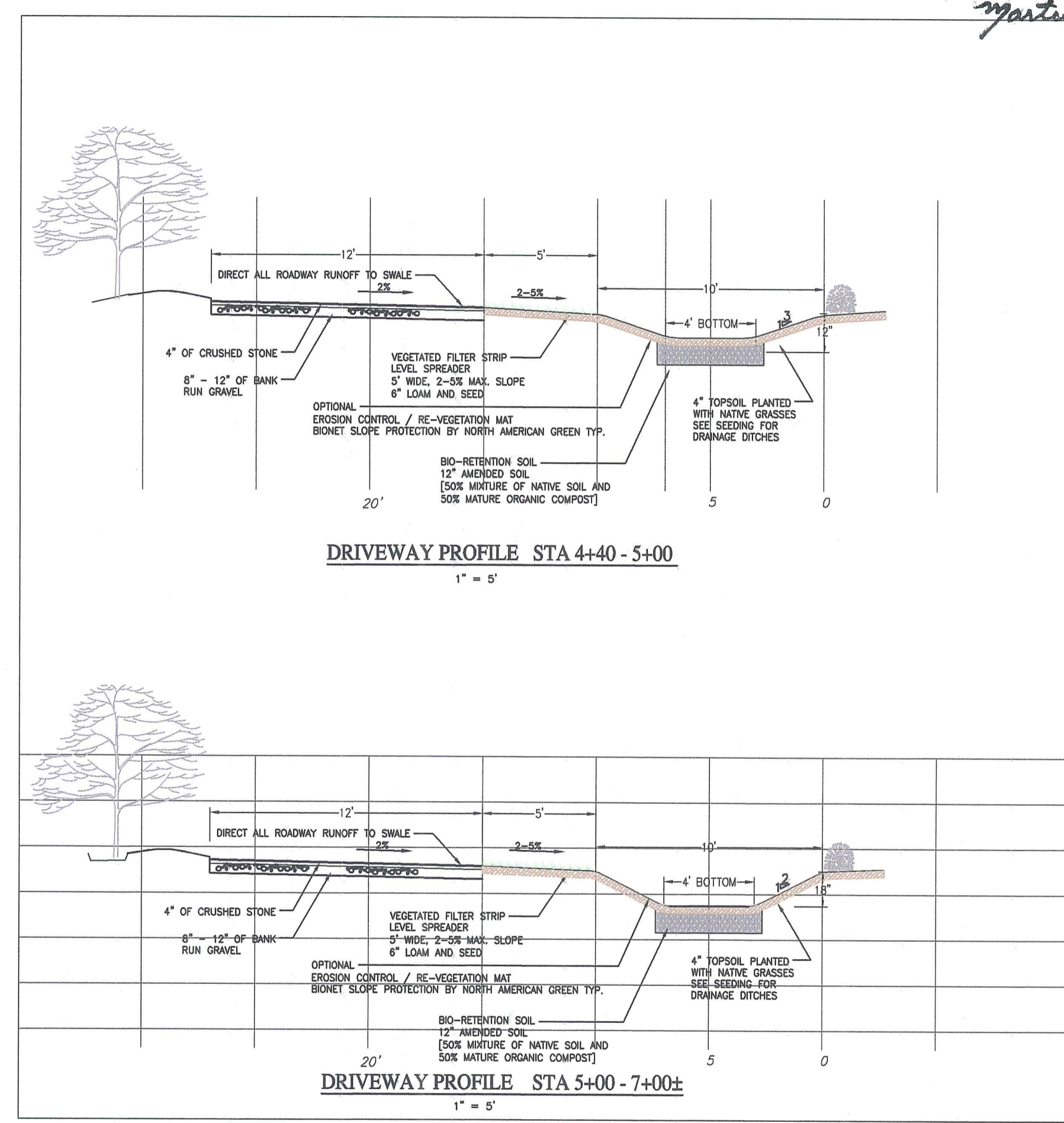
SOIL CAT: 1m DESIGN LOADING RATE: 0.61 GPD/SF  
 96" GWL BASED UPON SOIL PITS 5/19/2021

**EROSION & STORMWATER CONTROLS**

- ALL EROSION CONTROL METHODS, MATERIALS, AND MAINTENANCE SHALL BE ACCOMPLISHED ACCORDING TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, PREPARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE.
  - FILTER SOCKS / SILT FENCING SHALL BE PLACED IMMEDIATELY DOWN SLOPE OF SOIL DISTURBANCE AREAS AS SHOWN ON THE PLANS. ADDITIONAL CONTROLS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
  - SPOIL AND STOCKPILE MATERIALS REMAINING EXPOSED FOR LONGER THAN 30 DAYS SHALL BE ENCLOSED WITH SILT FENCING OR FILTER SOCKS AND COVERED WITH EROSION CONTROL SEED MIX OR WINTER MULCHING.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS UNTIL ALL AREAS ARE STABILIZED. CONTROLS SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF VEGETATION IS ESTABLISHED.
- 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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 Martin D. Weneck



**NOTES:**

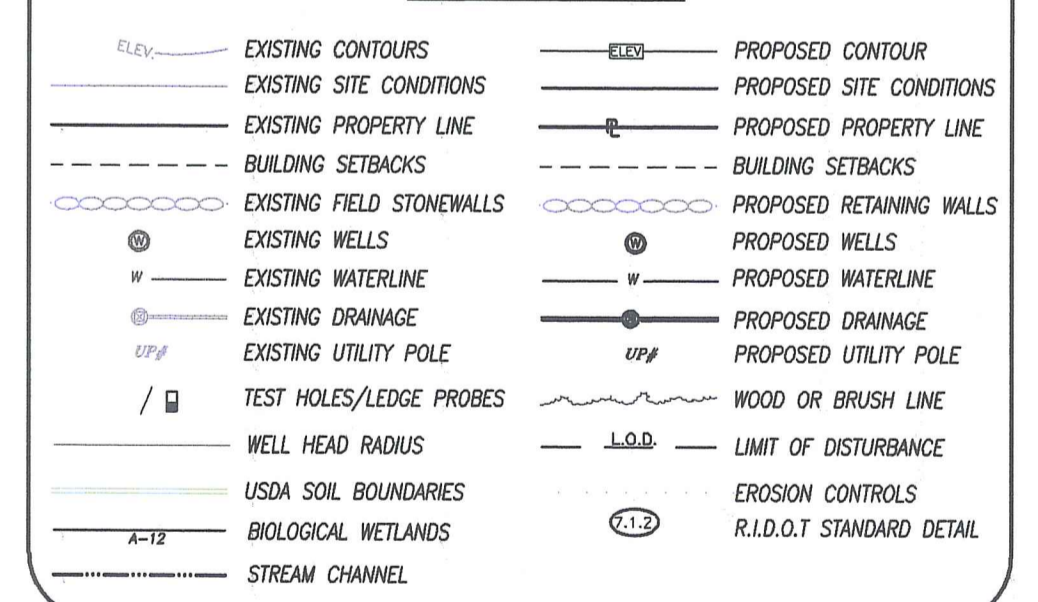


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 ZONING DISTRICT: F2

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\* VARIANCE GRANTED BY BURRILLVILLE ZONING BOARD

**LEGEND**



**STORMWATER BMP LIST SHOWING SEASONAL HIGH GROUNDWATER TABLES**

BMP	DESCRIPTION	TEST HOLE	DESIGN ELEV.	GWL ELEV.	SHOWT	BOTTOM ELEV. OF INFILTRATIVE SURFACE	SEPARATION PROVIDED
1A & 1B	DRY SWALE	VARIES	VARIES	VARIES	96"	12" BELOW GRADE	5' - 7'
2A	DRYWELL	TH A	ELEV. 387	ELEV. 379	96"	ELEV. 382.5	3.5'
2B	DRYWELL	TP 1	ELEV. 385	ELEV. 377	96"	ELEV. 380.5	3.5'
2C	DRYWELL	TP 2	ELEV. 396	ELEV. 388	96"	ELEV. 391.5	3.5'
3	QUALIFIED PERVIOUS AREA	TP #2 ELEV. 364	ELEV. 364	ELEV. 354	120"	ELEV. 363	9'

**PROPOSED SITE**  
 PLAT 125 / LOT 38  
 SHERMAN FARM ROAD  
 BURRILLVILLE, RHODE ISLAND

PREPARED BY:  
**AUGUST CIVIL DESIGN**  
 16 WEST MAIN STREET  
 WICKFORD, RHODE ISLAND 02852  
 PHONE: (401) 500-3769

OWNER / APPLICANT  
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 OAKLAND, RI 02858  
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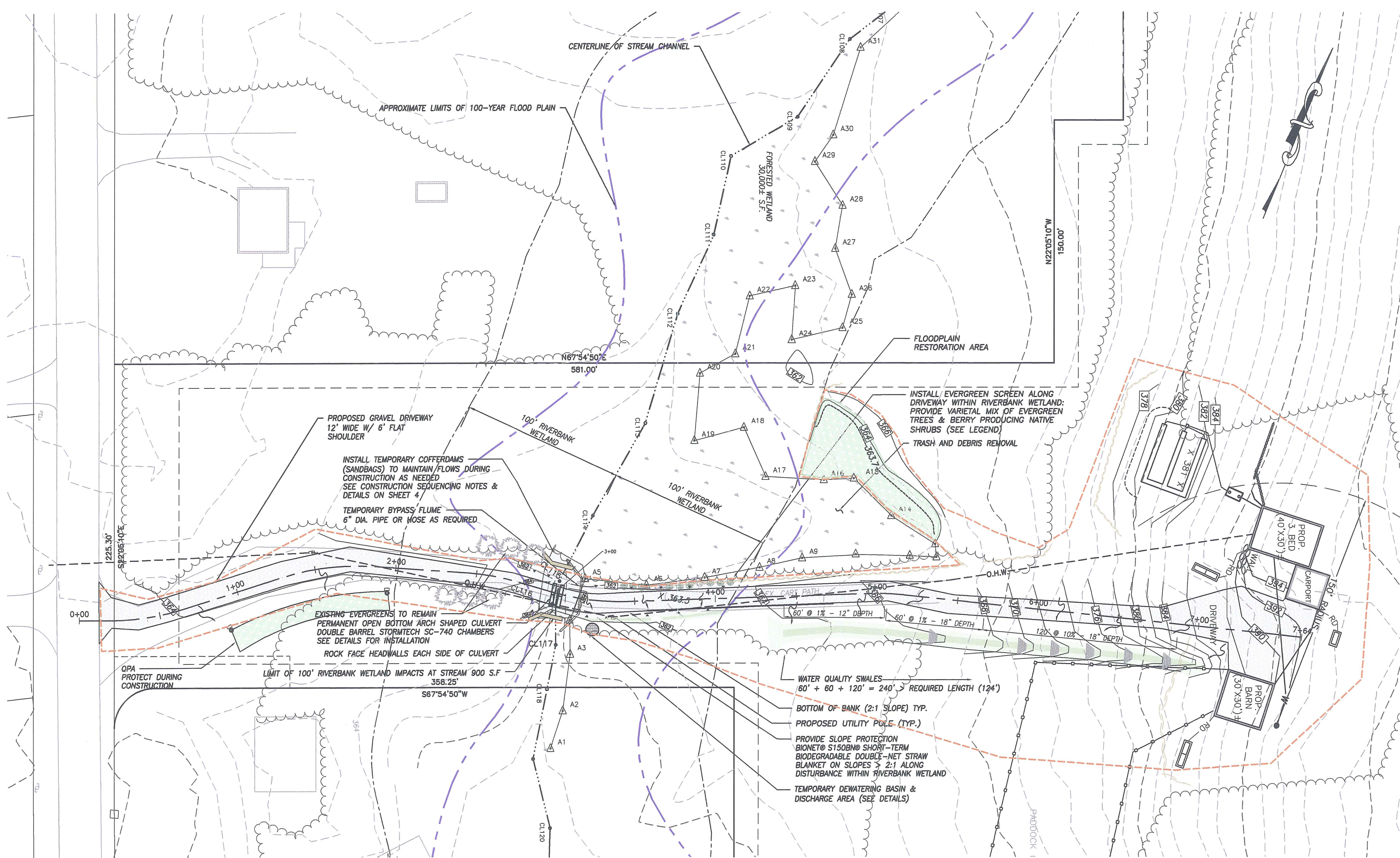
**TERRI A. GENTES**  
 No. 8672  
 PROFESSIONAL ENGINEER  
 CIVIL

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1	9/17/21	LOD	SCALE: 1"=40'
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3	5/9/22	DEM Comments; Restoration	

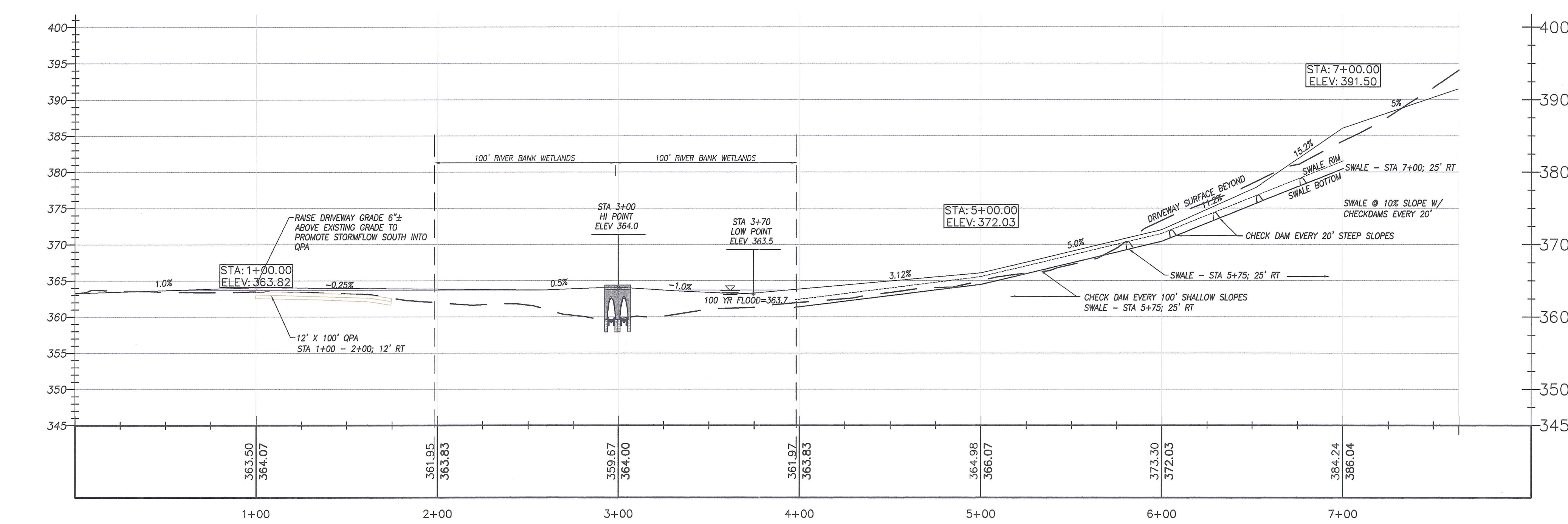
**2**

**TEST HOLE DATA**

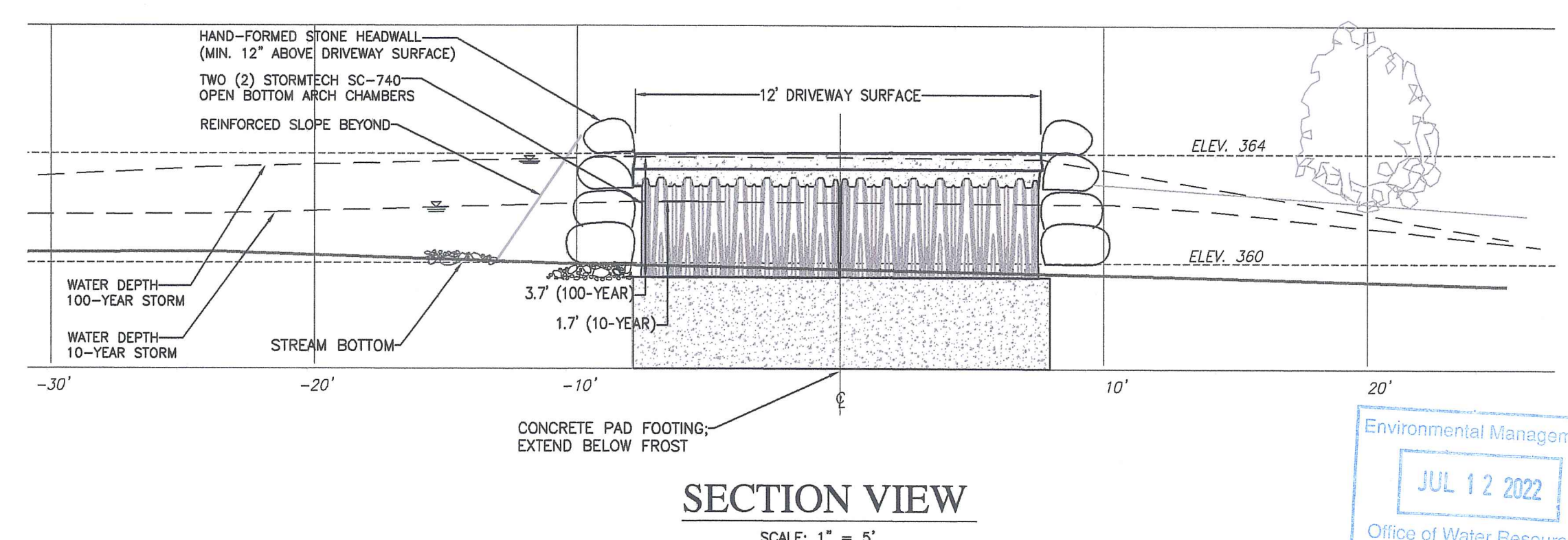
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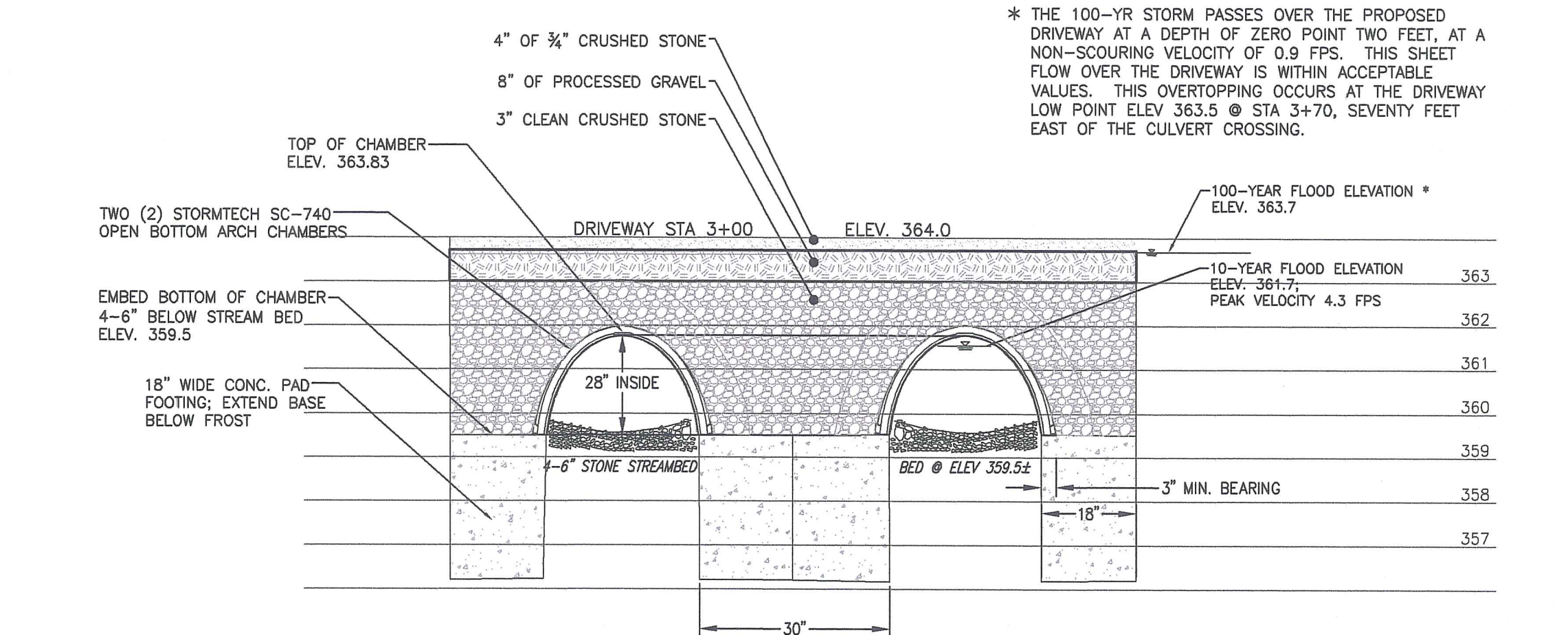
**PLAN VIEW**  
SCALE: 1" = 40'



**DRIVEWAY PROFILE**  
SCALE: 1" = 40' H  
1" = 10' V



**SECTION VIEW**  
SCALE: 1" = 5'



**CULVERT CROSS-SECTION**  
SCALE: 1" = 2'

**GENERAL PROJECT SEQUENCING**

1. THE IN-STREAM WORK IS TO BE SCHEDULED DURING THE USACE-DEFINED LOW FLOW PERIOD (JULY 1 TO OCTOBER 31), AND IS EXPECTED TO TAKE APPROXIMATELY ONE DAY TO COMPLETE.
2. A PRE-CONSTRUCTION MEETING WITH SELECTED SITE CONTRACTOR, OWNER AND ENGINEER SHALL BE HELD PRIOR TO INITIATING WORK.
3. INSTALL CRUSHED STONE CONSTRUCTION ENTRANCE AT ACCESS TO SITE.
4. INSTALL EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES INCLUDING DEWATERING BASINS. UPON ACCEPTABLE COMPLETION OF SITE PREPARATION, SITE CONSTRUCTION ACTIVITIES SHALL COMMENCE.
5. INSTALL TEMPORARY COFFER DAM (SANDBAGS) AND BYPASS FLUME ON EAST SIDE OF CHANNEL.
6. EXCAVATE FOR FOOTINGS. PUMP AND DE-WATER AS REQUIRED, DIRECT TO DEWATERING BASIN.
7. INSTALL PRECAST BLOCK FOOTINGS ON A 6"-12" CRUSHED STONE BASE.
8. PLACE AND COMPACT BANK RUN BACKFILL AROUND FOOTINGS TO WITHIN 6" OF STREAM BASE.
9. INSTALL NATURAL STREAM BED MATERIALS (SAND / GRAVEL INFILL) FROM 6" DEPTH TO STREAM BASE.
10. ANCHOR INFILTRATOR ARCH TO FOOTINGS W/ FOUR 5/16" DIAMETER ANCHOR BOLTS PER CHAMBER. ENSURE STREAM BED MATERIALS FILL INTERIOR BOTTOM 6" OF CHAMBER.
11. BACKFILL AROUND CHAMBERS WITH ASHTO M43 STONE (1 1/2" STONE-DOUBLE WASHED); FOLLOWING MANUFACTURER'S REQUIREMENTS FOR BACKFILL & COMPACT IN 12" LIFTS. INSTALL DRIVEWAY EMBANKMENT TO 12" OF PROPOSED GRADE.
12. INSTALL SLOPE PROTECTION (RIP-RAP & FABRIC) OVER EMBANKMENT AS DETAILED.
13. PLACE PROCESSED GRAVEL-SUBBASE AND STONE COVER FOR DRIVEWAY.
14. INSTALL ROCK FACED SLOPE PROTECTION WHERE REQUIRED.
15. REMOVE TEMPORARY COFFER DAM.
16. LOAM & SEED ALL DISTURBED AREAS WITHIN RIVERBANK WETLAND W/ WETLAND SEED MIX.
17. REMOVE EROSION CONTROLS ONLY AFTER ALL DISTURBED AREAS ARE ESTABLISHED WITH VEGETATION.

**FLOODPLAIN NOTES:**

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA FLOOD INSURANCE RATE MAPS FOR THE TOWN OF BURRILLVILLE FIRM PANEL # 44007 C0135G, REVISED 3/2/2009) THE SITE LIES OUTSIDE OF ANY FLOOD ZONE. THE FLOODPLAIN ILLUSTRATED ON THE PLANS WAS NOT DERIVED BY FEMA.

THE FLOOD PLAN ASSOCIATED WITH THE ONSITE STREAM WAS DETERMINED FROM AN IN-HOUSE, TR-20 STUDY AND IS DESCRIBED IN A SEPARATE REPORT ENTITLED "FLOODPLAIN ANALYSIS FOR SHERMAN FARM ROAD PLAT 125/LOT 38, BURRILLVILLE, RHODE ISLAND."

- LANDSCAPING REQUIREMENTS:**
- EVERGREEN SCREEN STAGGER PLANTINGS 7' o.c.
  - EVERGREEN TREES: 5' TALL BALLED AND BURLAPPED TREES TAXUS OCCIDENTALIS NIGRA - ARBORVITAE OR JUNIPERUS VIRGINIANA - EASTERN RED CEDAR
  - 3' TALL BALLED AND BURLAPPED MYRTICA PENNSYLVANICA - NORTHERN BAYBERRY VACCINIUM CORYMBOSUM - HIGH BUSH BLUEBERRY ILEX VERTICILLATA - WINTERBERRY VIBURNUM DENTATUM - SOUTHERN ARROWWOOD

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*Martin D. Wemel*

**LEGEND**

- EXISTING CONTOURS
- EXISTING SITE CONDITIONS
- EXISTING PROPERTY LINE
- BUILDING SETBACKS
- EXISTING FIELD STONEWALLS
- EXISTING WELLS
- EXISTING WATERLINE
- EXISTING DRAINAGE
- EXISTING UTILITY POLE
- TEST HOLES/LEDGE PROBES
- WELL HEAD RADIUS
- USDA SOIL BOUNDARIES
- BIOLOGICAL WETLANDS
- STREAM CHANNEL
- PROPOSED CONTOUR
- PROPOSED SITE CONDITIONS
- PROPOSED PROPERTY LINE
- BUILDING SETBACKS
- PROPOSED RETAINING WALLS
- PROPOSED WELLS
- PROPOSED WATERLINE
- PROPOSED DRAINAGE
- PROPOSED UTILITY POLE
- WOOD OR BRUSH LINE
- LIMIT OF DISTURBANCE
- EROSION CONTROLS
- R.I.D.O.T STANDARD DETAIL
- EMBANKMENT LIMITS

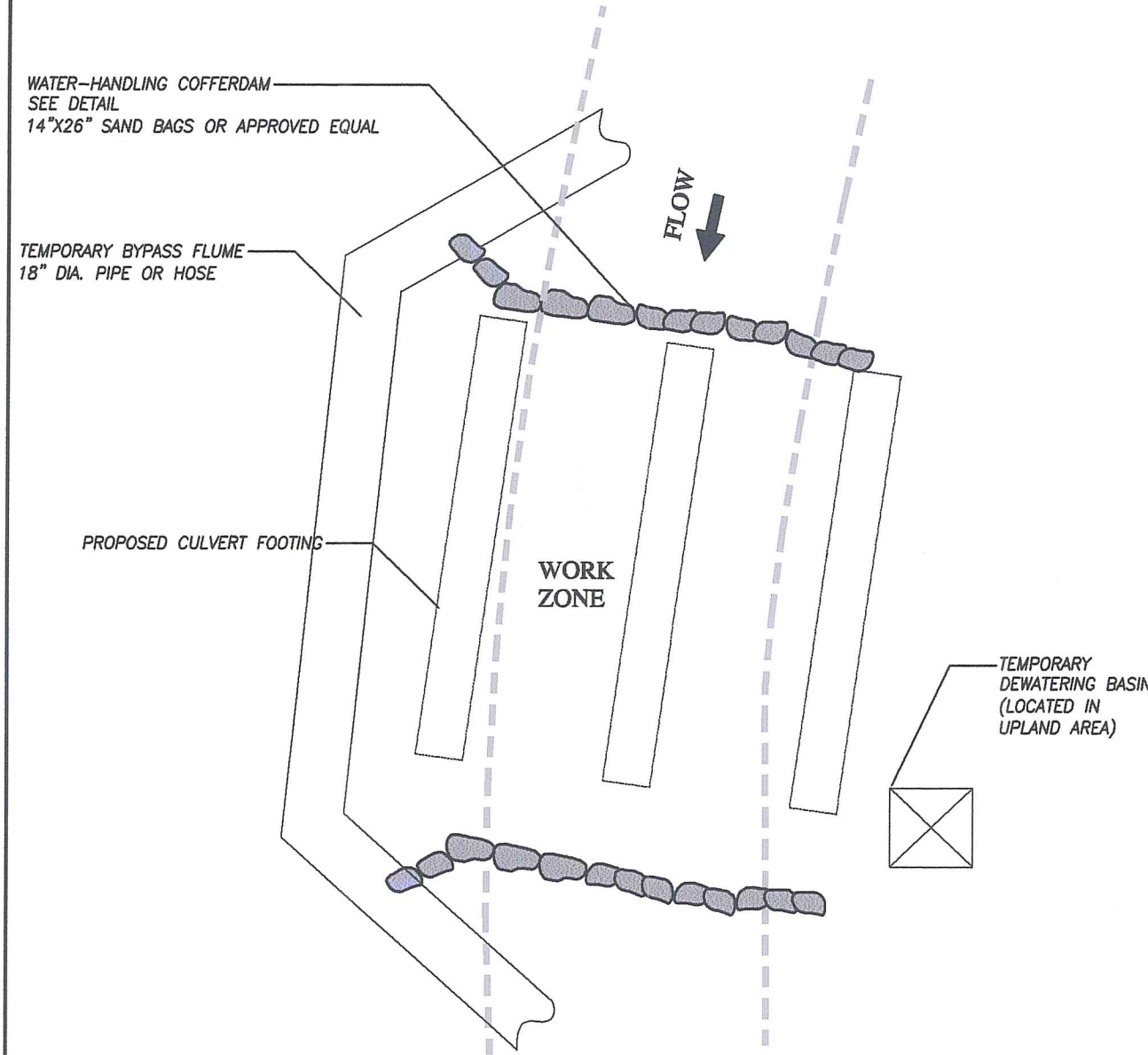
**PROPOSED CROSSING**  
PLAT 125 / LOT 38  
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Environmental Management  
JUL 12 2022  
Office of Water Resources

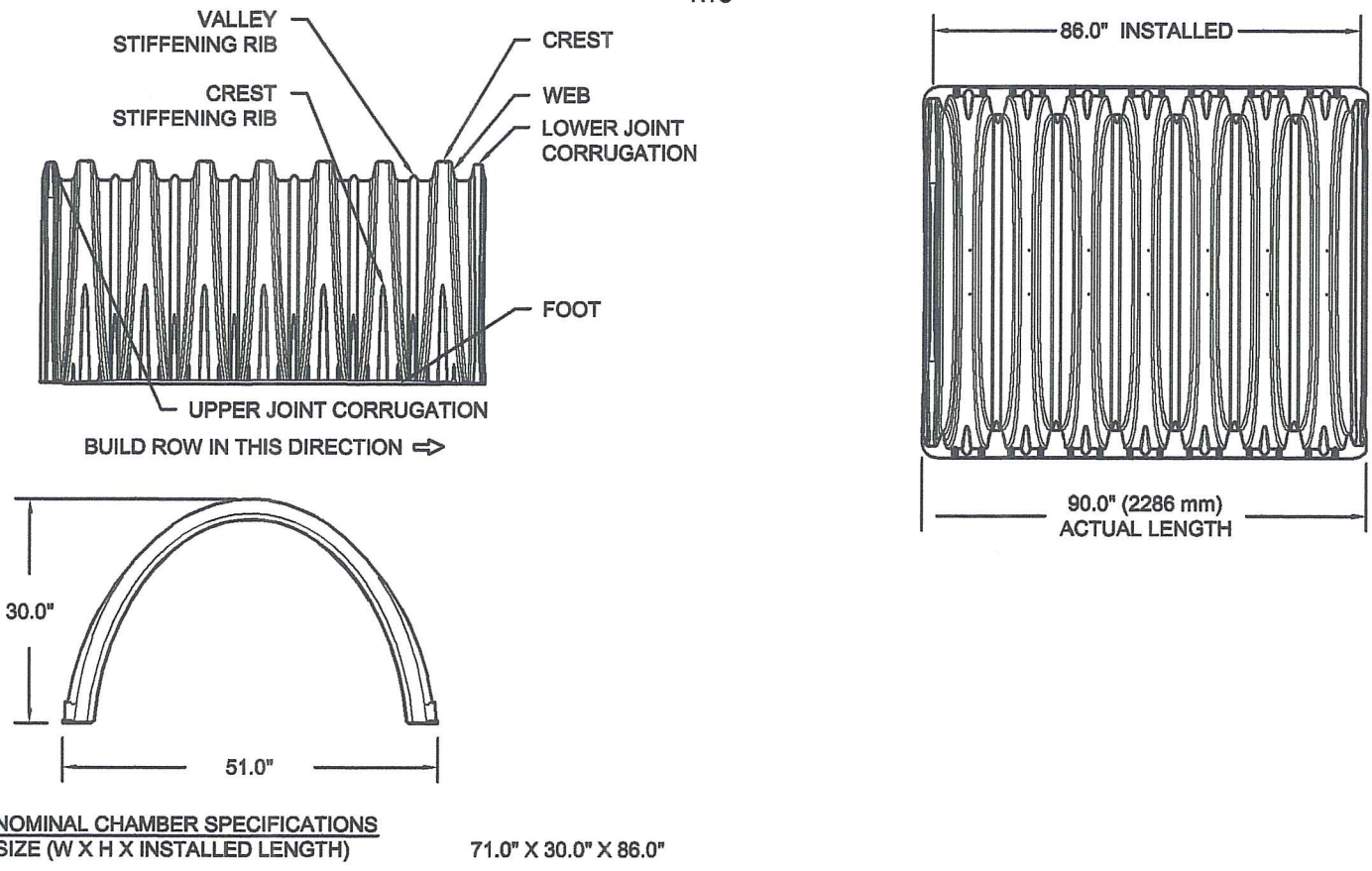


TEMPORARY BYPASS AROUND WORK AREA

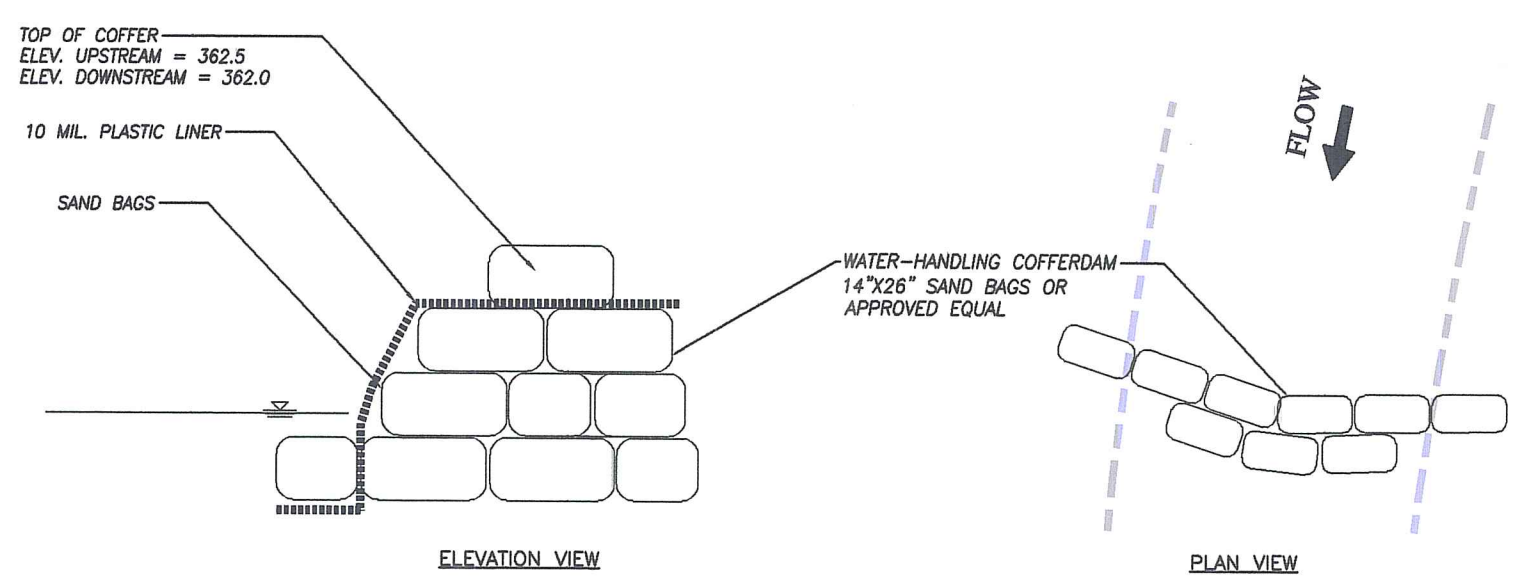
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SC-740 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) 71.0" X 30.0" X 88.0"



TEMPORARY COFFER DAMS

BANK STABILIZATION NOTES:

CONTRACTOR SHALL TAKE CARE TO PROPERLY PLAN & SCHEDULE WORK. CONSTRUCTION MUST BE SEQUENCED SO THAT THE RIPRAP IS PUT IN PLACE AND BANK STABILIZED IMMEDIATELY FOLLOWING THE INITIAL SLOPE PREPARATION.

**BASE PREPARATIONS:** THE SUBGRADE FOR THE RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. OBJECTIONABLE AND ORGANIC MATERIAL SHALL BE REMOVED. SLOPES SHALL BE GRADED TO AN APPROXIMATE SLOPE OF 1.5:1 (HORIZONTAL:VERTICAL). ANY FILL REQUIRED IN THE UNDERCUT ZONE SHALL BE COMPACTED TO A DENSITY OF 95% AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST. FILL SHALL MEET THE REQUIREMENTS IN THE MATERIAL SECTION.

**TRENCH EXCAVATION:** A TRENCH SHALL BE EXCAVATED AT THE TOE OF THE SLOPE TO KEY IN THE RIPRAP. THE KEY SHALL BE AT LEAST 24" WIDE X 24" DEEP.

**FILTER FABRIC PLACEMENT:** PLACEMENT OF THE FILTER FABRIC SHALL BE DONE IMMEDIATELY AFTER SLOPE PREPARATION. EDGES OF THE SHEETS SHALL OVERLAP BY AT LEAST 12" ANCHOR ACCORDING TO MANUFACTURER'S INSTRUCTIONS. THE UPPER END OF THE CLOTH SHALL BE BURIED A MINIMUM OF 12" DEEP. THE LOWER END SHALL EXTEND INTO THE KEY AND BE TIED IN AGAINST NATIVE SOIL. CARE SHALL BE TAKEN NOT TO DAMAGE THE CLOTH WHILE PLACING RIPRAP. WHEN PLACING STONES LARGER THAN 12", OR AS DESIRED BY THE CONTRACTOR FOR SMALLER STONES, A 4" LAYER OF GRAVEL SHOULD BE USED TO PREVENT DAMAGE TO THE CLOTH.

**STONE PLACEMENT:** PLACEMENT OF RIPRAP SHALL FOLLOW IMMEDIATELY AFTER ANCHORING FILTER FABRIC. RIPRAP SHALL BE PLACED SO THAT IT PRODUCES A DENSE WELL-GRADED MASS OF STONE WITH A MINIMUM OF VOIDS. THE RIP-RAP SHOULD BE PLACED TO ITS FULL THICKNESS IN ONE OPERATION. THE RIP RAP SHALL NOT BE PLACED IN LAYERS NOR DAMPED AS THIS SEGREGATES THE VARIOUS STONE SIZES. THE FINISHED SLOPE SHALL BE FREE OF POCKETS OR SMALL STONES OR CLUSTERS OF LARGE STONES.

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ONCE THE STONE EMBANKMENT IS COMPLETED THE V-WEIR SHALL BE COMPLETED. HAND-PLACEMENT OF STONES IN THE CENTER PORTION OF THE STREAM BED MAY BE REQUIRED.

**UPPER BANK RESTORATION:** SEED AND INSTALL VEGETATIVE MEASURES ON UPPER BANK IMMEDIATELY FOLLOWING RIP-RAP INSTALLATION. A 4" LAYER OF DAM SHALL BE PLACED ON SLOPE, FOLLOWED IMMEDIATELY BY MULCH AND EROSION CONTROL BLANKETS. THE ROOTMASS OF NATIVE SHRUBS (WILLOWS, DOGWOOD) ARE THE MOST EFFECTIVE MEANS OF VEGETATIVE CONTROL; BUT WILL REQUIRE SEVERAL SEASONS TO BECOME EFFECTIVE. SHRUBS SHALL BE HAND PLANTED AS CUTTINGS AS SHOWN IN THE DETAILS. SEED ALL DISTURBED AREAS WITH A TEMPORARY FAST GROWING CONSERVATION GRASS MIXTURE.

• ALL DISTURBED SLOPES SHALL BE RESEEDED OR PROTECTED PRIOR TO OCTOBER 15. AFTER THIS DATE, WINTER MULCHING SHALL BE PROVIDED IN AREAS WHERE VEGETATION HAS NOT BEEN ESTABLISHED.

• TEMPORARY WINTER MULCHING TREATMENTS SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR OTHER PROTECTIVE COVERS, SUCH AS A JUTE MESH, MATS, OR OTHER WOVEN NETTING. STRAW OR HAY MULCHES SHALL BE APPLIED AT THE RATE OF 2 TONS/ACRE.

**MAINTENANCE:** REPAIRS MAY BE REQUIRED PERIODICALLY UNTIL THE BANK IS FULLY STABILIZED. SLOPES SHALL BE INSPECTED QUARTERLY AND AFTER SEVERE STORMS FOR SLIDING OR SEEPAGE PROBLEMS. SPECIAL ATTENTION MUST BE GIVEN NEAR THE RIPRAP EDGE, WHERE EROSION CAN BE ACCELERATED.

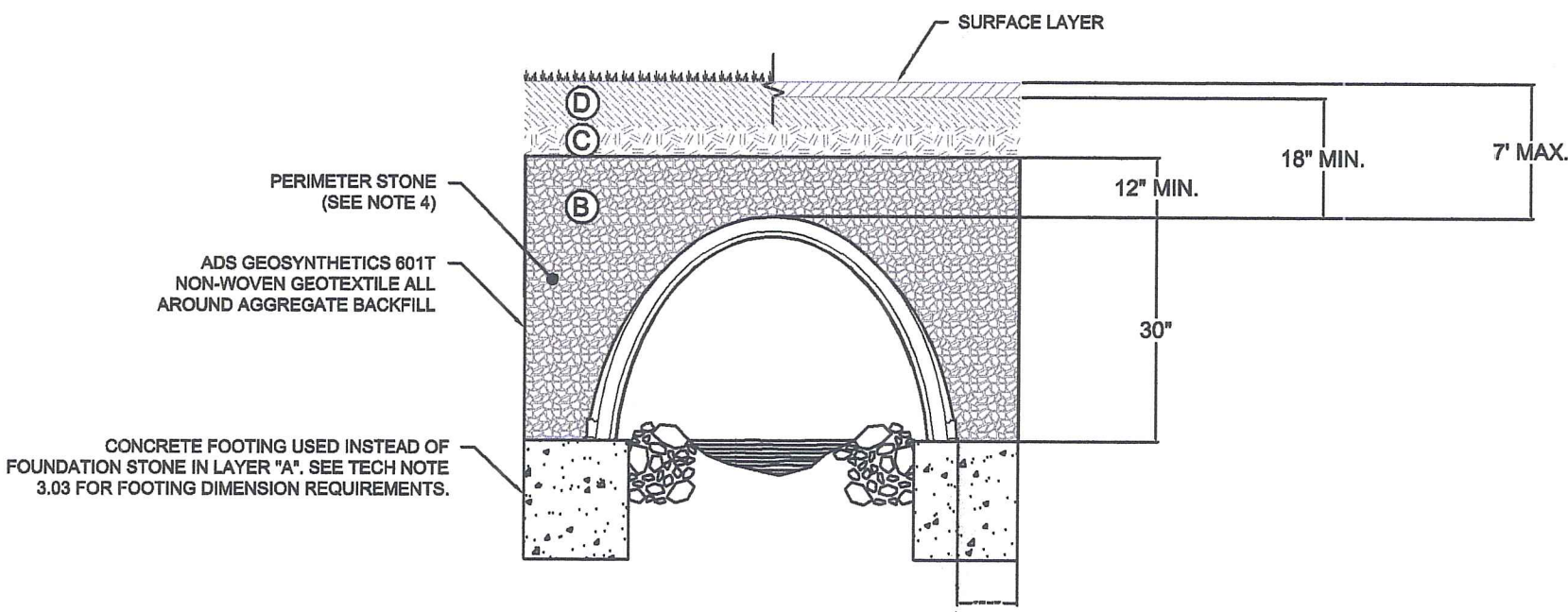
• VEGETATION SHALL BE RE-SEEDED IN ALL REQUIRED AREAS. GRASSES SHALL BE RE-SEED AND PLANTINGS REPLANTED AS REQUIRED TO THE EXTENT THAT THE PROVISIONS FOR NO PESTICIDES, HERBICIDES, OR FERTILIZERS SHALL BE USED.

• ANY SEDIMENTS OR DEPOSITED MATERIAL SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 SERIES CHAMBER

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	NA	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M148 <sup>1</sup> A-1, A-2.4, A-3 OR AASHTO M43 <sup>1</sup>	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 96% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>1</sup> 3, 4	NO COMPACTION REQUIRED.

PLEASE NOTE:  
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: 'CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE'.  
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (200 mm) (MAX) LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.  
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY BANKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.  
 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-18a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 48x78 DESIGNATION SS AND 60X101.
2. MC SERIES CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LB-IN/IN. AND (b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

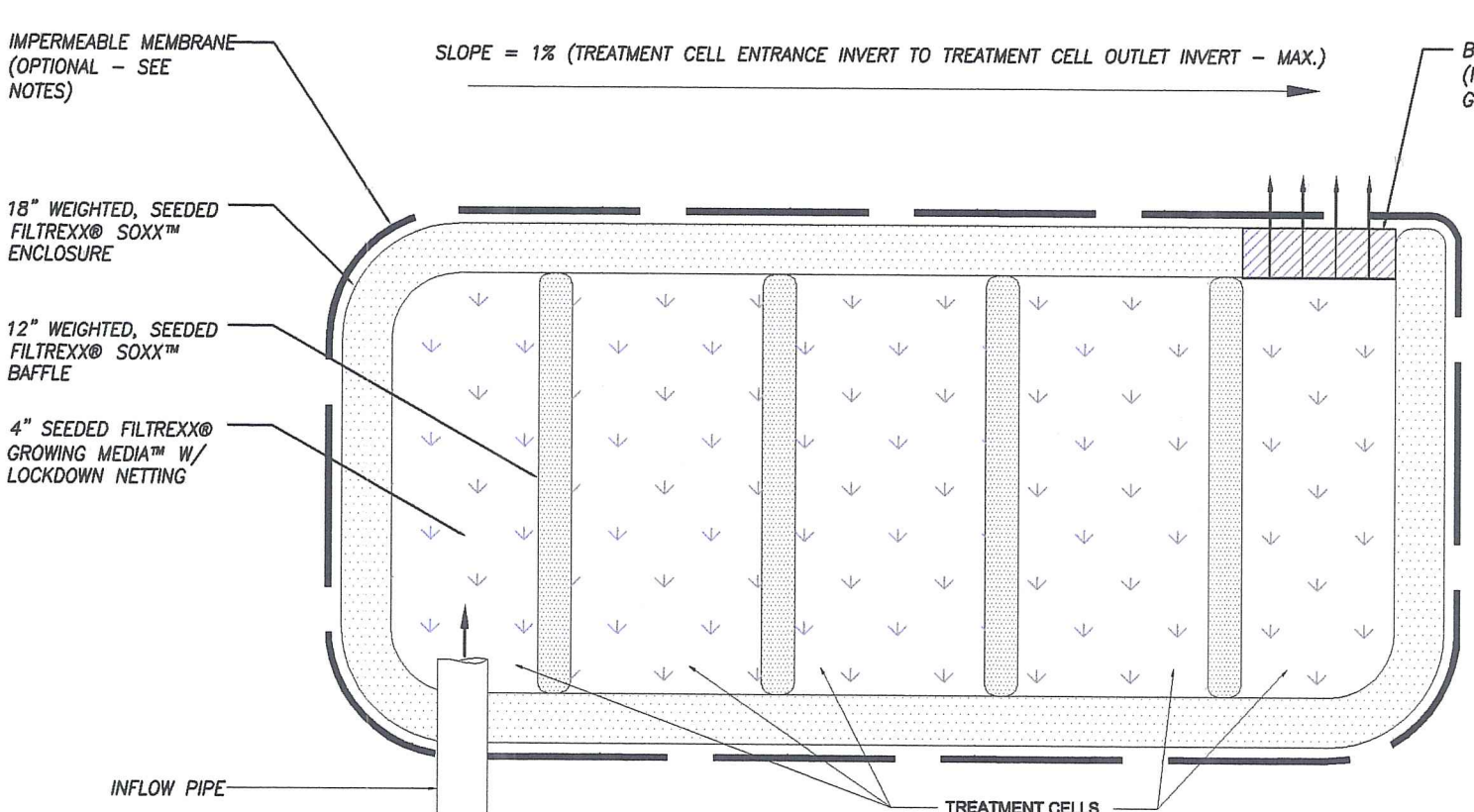
MC SERIES CROSS SECTIONS LOW VELOCITY STREAM CROSSING

DATE: 02/20/19 DRAWN: KJM CHECKED: RMB

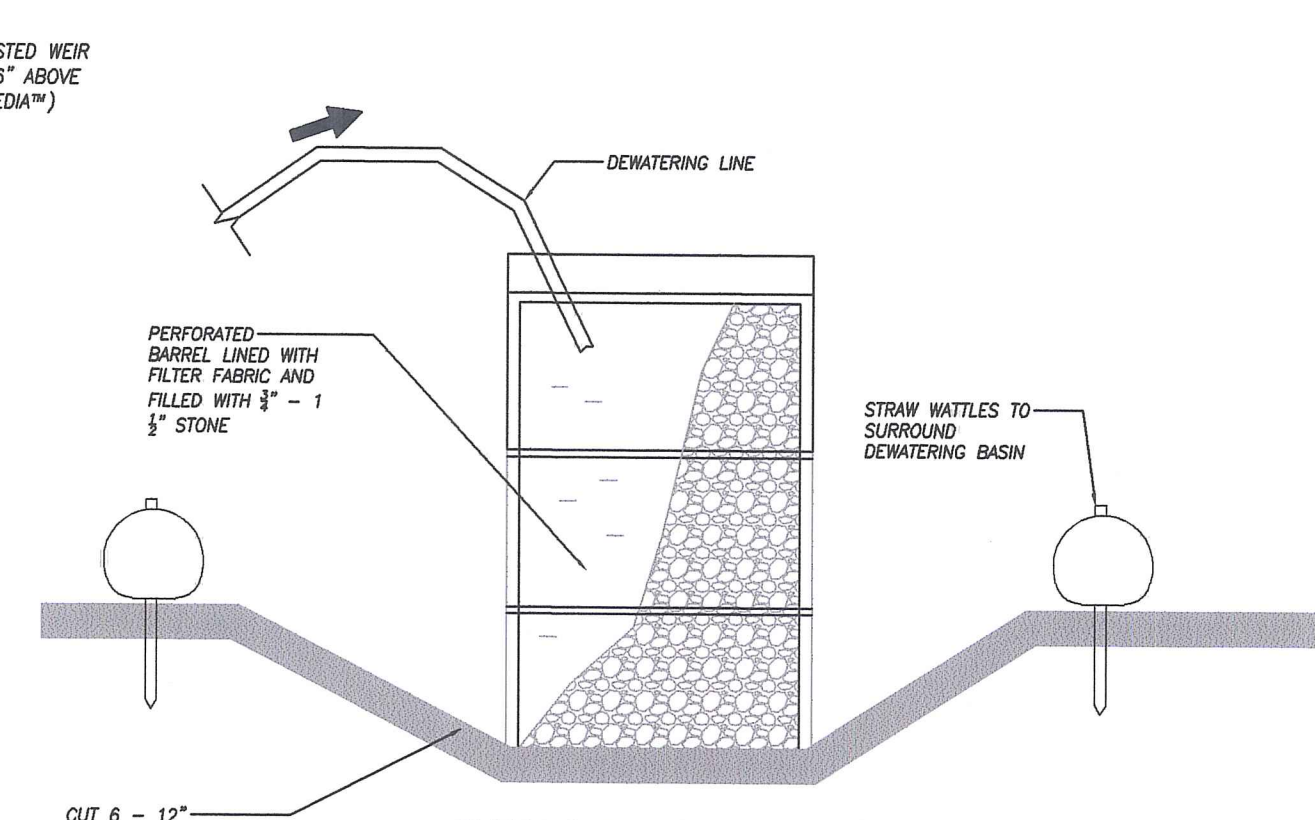
4640 TRESHAM BLVD HILLIARD, OH 43026

StormTech

4 SHEET OF 4



DEWATERING BASIN FILTRIX® FILTRATION SYSTEM



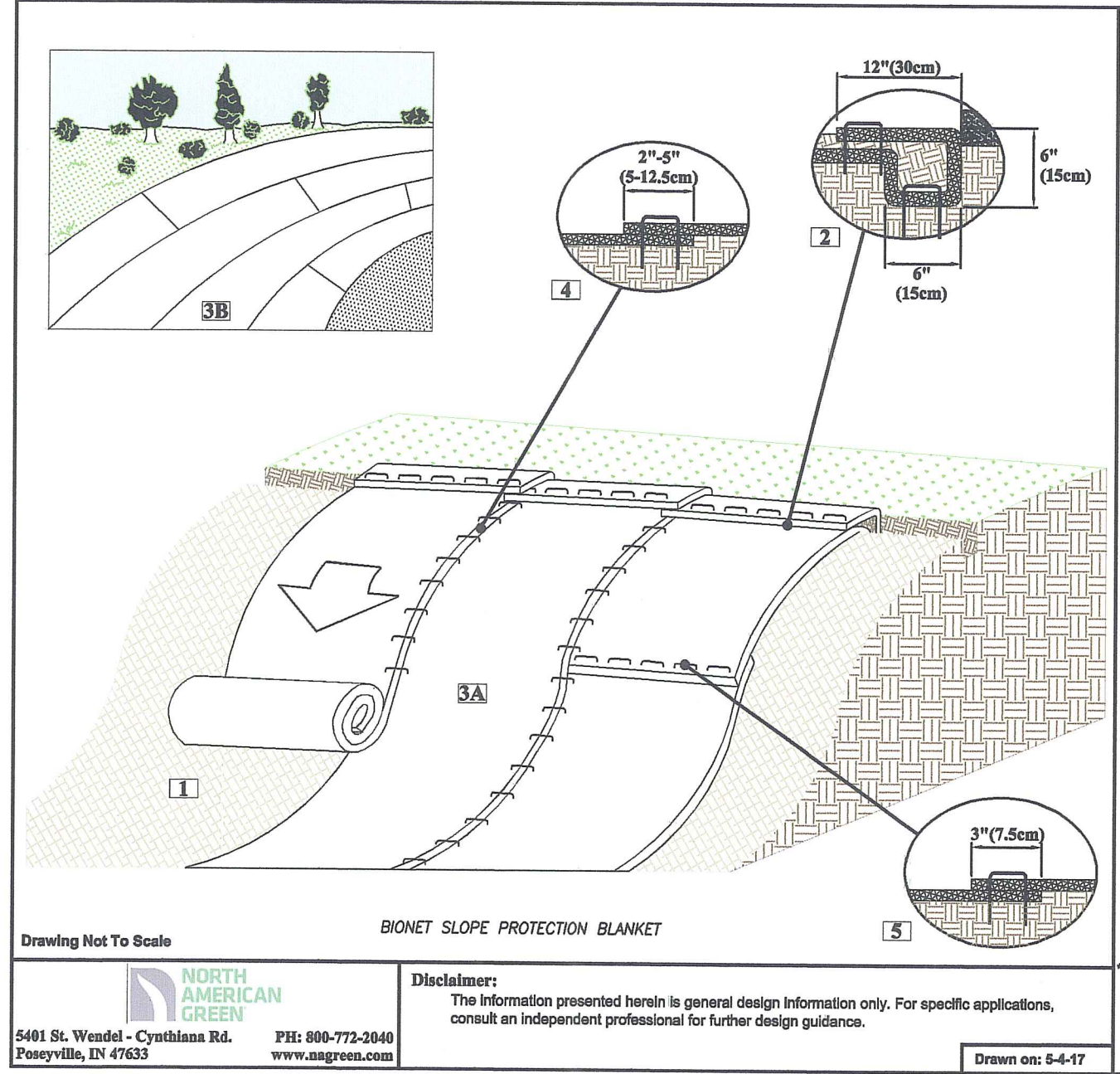
DEWATERING BASIN OPTIONAL BARREL METHOD

1. CONTRACTOR SHALL NOT DEWATER WORK AREAS UNTIL THEY ARE ENCLOSED BY TEMPORARY COFFERDAMS.
2. DISCHARGE FROM THE FILTRATION SYSTEM SHALL BE TO A VEGETATED AREA LOCATED AT LEAST 25 FEET FROM THE LIMIT OF WETLAND. NO DEWATERING MAY BE DISCHARGED DIRECTLY TO THE WETLAND OR STREAM.

Environmental Management

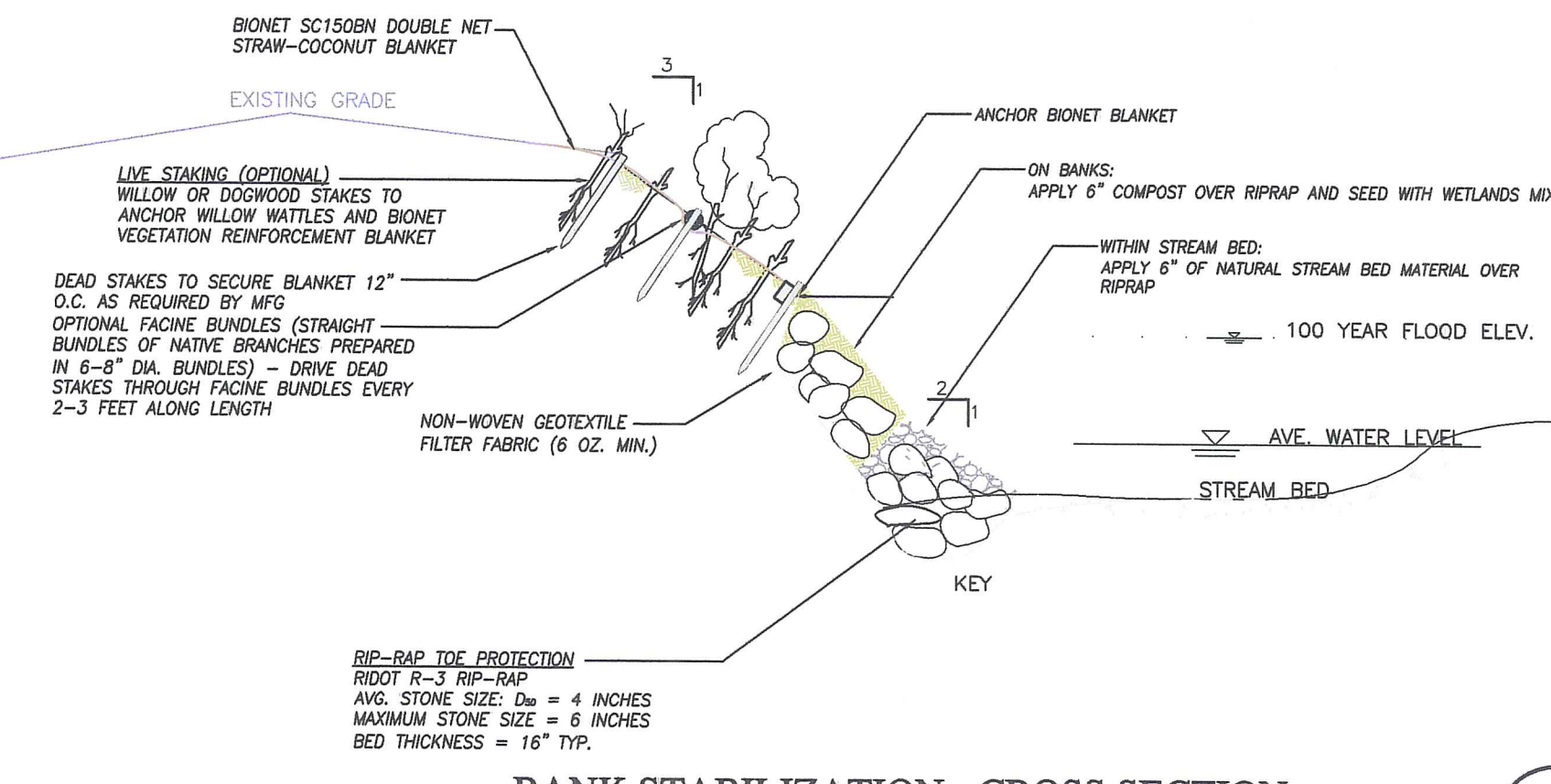
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Office of Water Resources

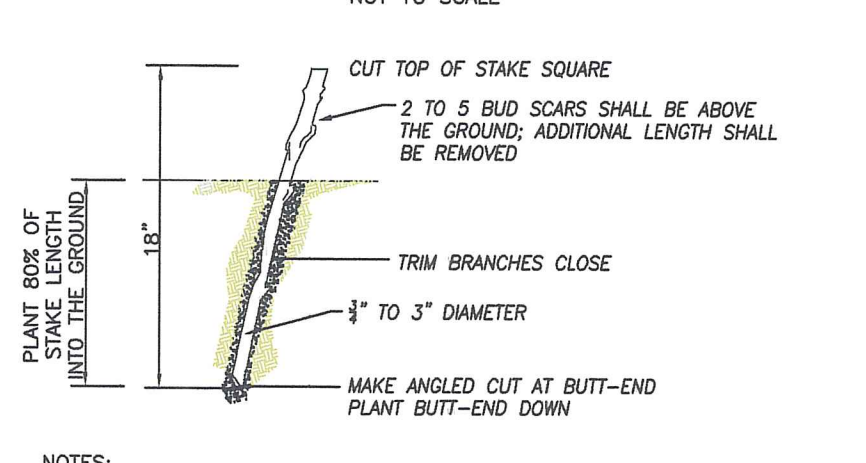


SLOPE INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
  2. Begin at the top of the slope by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after staking. Apply seed to the compacted soil and top the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12"(30cm) apart across the width of the RECPs.
  3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
  4. The edges of parallel RECPs must be stapled with approximately 2" - 3" (5-12.5cm) overlap depending on the RECPs type.
  5. Consecutive RECPs applied down the slope must be tied over and (single style) with an approximate 3"(7.5cm) overlap. Single through overlapped area, approximately 12"(30cm) apart across entire RECPs width.
- NOTE: In loose soil conditions, the use of single or double lengths greater than 6"(15cm) may be necessary to properly secure the RECPs.



BANK STABILIZATION - CROSS SECTION COMBINATION RIP-RAP & VEGETATION BANK STABILIZATION NOT TO SCALE



- NOTES:
1. HARVEST & PLANT STAKES DURING THE DORMANT SEASON
  2. USE HEALTHY, STRAIGHT, AND LIVE WOOD AT LEAST 1 YEAR OLD.
  3. MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION. USE A PILOT BAR IN FIRM SOILS.
  4. SOAK CUTTINGS FOR 24 HOURS (MIN.) PRIOR TO INSTALLATION.
  5. TAMP THE SOIL AROUND THE STAKE.

LIVE STAKING DETAIL

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF WATER RESOURCES

FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: OCT 25 2022 FILE #: 21-0228

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*parton D. Cavanaugh*

EROSION CONTROL DETAILS

PLAT 125 / LOT 38

SHERMAN FARM ROAD

BURRILLVILLE, RHODE ISLAND

PREPARED BY:

AUGUST CIVIL DESIGN

16 WEST MAIN STREET

WICKFORD, RHODE ISLAND 02852

PHONE: (401) 500-3769

OWNER / APPLICANT

MANDY & JOHN RIDER

1150 VICTORY HIGHWAY

OAKLAND, RHODE ISLAND 02858

REV.	DATE	DESCRIPTION	DATE: 7/13/21
1	9/17/21	RIDEM COMMENTS, CULVERT	SCALE: NTS
2	3/23/22	RIDEM COMMENTS	
3	5/9/22	RIDEM COMMENTS	

4

**EROSION & SEDIMENT CONTROL NOTES:**

- EXTREME CARE SHALL BE EXERCISED TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING A PROTECTED AREA, STREET, OR NEIGHBORING PROPERTY. THE CONTRACTOR SHALL IMMEDIATELY CLEAN AND RESTORE ANY DISTURBED AREAS.
- ALL EROSION CONTROL METHODS, MATERIALS, AND MAINTENANCE SHALL BE ACCOMPLISHED ACCORDING TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL (SESC) HANDBOOK, PREPARED BY THE RHODE ISLAND STATE CONSERVATION COMMITTEE (UPDATED IN 2016).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL TEMPORARY EROSION AND SEDIMENT CONTROLS, AS SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER. ALL RUNOFF SHALL BE CONTROLLED. IN NO CASE SHALL ANY DIRECT RUNOFF BE ALLOWED TO ENTER ONTO ADJACENT PROPERTIES OR OTHER CRITICAL AREAS.
- SILT FENCING/COMPOST FILTER SOCKS OR MATS SHALL BE PLACED IMMEDIATELY DOWN SLOPE OF SOIL DISTURBANCE AS SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED AT ALL DRAINAGE STRUCTURE INLETS, EXISTING AND PROPOSED, DURING CONSTRUCTION. ADDITIONAL MATS AND/OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS UNTIL ALL AREAS ARE STABILIZED AND A GOOD STAND OF VEGETATION IS ESTABLISHED. EROSION CONTROLS SHALL BE REMOVED ONCE PERMANENT EROSION CONTROL MEASURES ARE IN PLACE AND FUNCTIONING UNLESS DEVICES ARE DESIGNED TO REMAIN IN PLACE (I.E. COMPOST FILTER SOCKS WITH SEED).
- TOPSOIL SHALL BE PRESERVED WHERE POSSIBLE, IN ACCORDANCE WITH STOCKPILE MANAGEMENT SPECIFICATIONS. AS FAR AS IS PRACTICABLE, EXISTING VEGETATION SHALL BE PROTECTED AND LEFT IN PLACE, IN ACCORDANCE WITH THE CLEARING LINES SHOWN ON THE PLANS.
- SPOIL AND STOCKPILE MATERIALS REMAINING EXPOSED FOR LONGER THAN 30 DAYS SHALL BE ENCROILED WITH SILT FENCING OR HAYBALES AND COVERED WITH AN ACCEPTABLE EROSION CONTROL MIX.
- ANY SLOPE PROTECTION BLANKETS USED AT THIS PROJECT SHALL BE THE 100% BIODEGRADABLE STRAW AND COCONUT FIBER BLANKETS WHICH SHALL DISINTEGRATE IN-PLACE, NOT REQUIRING FUTURE MAINTENANCE.

**PHASED CLEARING AND GRUBBING**

- ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK 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 DISTURBED PORTIONS WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME-FRAME.
- ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR WILL BE SEEDED OR PROTECTED BY THAT DATE.
- ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED BY EROSION CONTROL MATING OR MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK AND AS DETAILED ON THIS PLAN SET.
- IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS.
- AFTER CLEARING, AND BY THE END OF EACH DAY'S GRUBBING OPERATION, THE CONTRACTOR WILL INSTALL EROSION CONTROL MEASURES THAT ARE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SUCH EROSION CONTROL MEASURES WILL BE INSTALLED IN STRICT ACCORDANCE WITH THE PLANS.

**VEGETATIVE STABILIZATION & PLANTING REQUIREMENTS:**

**PERMANENT VEGETATIVE CONTROL MEASURES**

- ONCE FINE GRADING IS COMPLETE, THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER SHALL BE UNDERTAKEN DURING THE GROWING SEASON IN ACCORDANCE WITH THE REQUIREMENTS OF THE RI SESC HANDBOOK, SECTION 4.
- FOR NON-NATIVE SPECIES THE RECOMMENDED SEEDING DATES ARE: APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH SEPTEMBER 30. FOR NATIVE SPECIES SEEDING DATES FOR BEST RESULTS ARE AUGUST TO SEPTEMBER. SELECTING SEED MATERIALS AND TIMING OF SEEDING IS CRITICAL. IF NATIVE SEEDS ARE TO BE SELECTED AND TIME OF SEEDING IS NOT IDEAL FOR SODDING, THEN TEMPORARY SEEDING MAY BE DONE TO PROTECT THE SITE UNTIL OPTIMUM SEEDING DATES CAN BE REACHED.
- SEEDBEDS SHALL BE PREPARED BY LOOSEN THE SOIL TO A DEPTH OF THREE TO FOUR INCHES WITH A SLIGHTLY ROUGH SURFACE. SOIL AMENDMENTS (LIME AND FERTILIZER) SHALL BE APPLIED BASED UPON SOIL REQUIREMENTS. FOR TEMPORARY SEEDING, FERTILIZER WITH THE FOLLOWING PERCENTAGES BY WEIGHT MAY BE APPLIED AT THE RATE OF 1,500 POUNDS PER ACRE.
  - 10% NITROGEN (N)
  - 20% PHOSPHORIC ACID (P)
  - 20% POTASSIUM (K)
- SURFACE ROUGHENING WILL BE EMPLOYED ON SLOPES GREATER THAN 2:1 TO AID IN THE ESTABLISHMENT OF VEGETATIVE COVER, REDUCE RUNOFF VELOCITY, INCREASE INFILTRATION, AND PROVIDE FOR SEDIMENT TRAPPING THROUGH THE PROVISION OF A ROUGH SOIL SURFACE. HORIZONTAL DEPRESSIONS ARE CREATED BY OPERATING A TILLER OR OTHER SUITABLE EQUIPMENT ON THE CONTOUR OR BY LEAVING SLOPES IN A ROUGHENED CONDITION BY NOT FINE GRADING THEM.
  - ALL SLOPES STEEPER THAN 2:1 AND GREATER THAN 5 VERTICAL FEET REQUIRE SURFACE ROUGHENING TO A DEPTH OF 2 TO 4 INCHES PRIOR TO SEEDING.
  - AREAS THAT WILL NOT BE STABILIZED IMMEDIATELY MAY BE ROUGHENED TO REDUCE RUNOFF VELOCITY UNTIL SEEDING TAKES PLACE.
  - SLOPES WITH A STABLE ROCK FACE DO NOT REQUIRE ROUGHENING.
  - SLOPES WHERE MOWING IS PLANNED SHOULD NOT BE EXCESSIVELY ROUGHENED.
- SEED MIXTURES SHALL CONSIST OF THE FOLLOWING:

**GENERAL LAWN:**

MIXTURES WHICH REQUIRE REGULAR FERTILIZATION SHALL NOT BE UTILIZED.

**GENERAL USE - TURFGRASS: (URI #2)**

APPLICATION RATE: 5-7 LBS / 1,000 S.F.

MIX	% BY VOLUME
CREeping RED FESCUE	40
IMPROVED KENTUCKY BLUEGRASS	20
KENTUCKY BLUE 98/85	20
PERENNIAL RYEGRASS	20

**SHADE / LOW MAINTENANCE: (URI #3)**

APPLICATION RATE: 4-5 LBS / 1,000 S.F.

MIX	% BY VOLUME
CHEWING FESCUE	50
KENTUCKY BLUE 98/85	40
COLONIAL BENTGRASS	10

**REGULATED AREAS & WATERWAYS**

DISTURBED AREAS IN BUFFER ZONES WILL BE SEEDED WITH A WILDLIFE CONSERVATION MIX.

**BUFFER ZONES / WETLAND AREAS:**

APPLICATION RATE: 5 LBS / 1,000 S.F.

MIX	% BY VOLUME
PERENNIAL RYEGRASS	25
CREeping RED FESCUE	25
ANNUAL RYE	25
TALL FESCUE	17
KENTUCKY BLUEGRASS	5
COLONIAL BENTGRASS	1
RED TOP	1
WHITE CLOVER*	1

\* CLOVER SEED TO BE INOCULATED

**SOD WATERWAYS & DRAINAGE DITCHES:**

IT IS IMPORTANT TO PROVIDE A SEED MIXTURE THAT CAN HANDLE FLUCTUATING WATER LEVELS AND/OR HIGH VELOCITIES. FERTILIZER CANNOT BE USED IN THESE AREAS.

APPLICATION RATE: 5 LBS / 1,000 S.F.

MIX	% BY VOLUME
CREeping RED FESCUE + TALL FESCUE OR RED CANARYGRASS	50
* CREeping RED FESCUE FOR SLOPES 0-5% ONLY	
* SUBSTITUTE SMOOTH BROME FOR SLOPES 5-10% & SUBSTITUTE BUFFALO GRASS FOR SLOPES > 10%	

**VEGETATIVE STABILIZATION & PLANTING REQUIREMENTS:**

**TOPSOIL REQUIREMENTS**

- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" OF SCREENED TOPSOIL. TOPSOIL SHALL CONSIST OF LOOSE, FRIABLE TOPSOIL FREE OF REFUSE, BRUSH, STUMPS, ROOTS, ROCK, COBBLES, STONES, NOXIOUS WEEDS, LITTER, AND OTHER MATERIALS WHICH ARE LONGER THAN 1-INCH IN ANY DIMENSION AND WHICH WILL PREVENT THE FORMATION OF A SUITABLE SEEDBED. ORGANIC CONTENT SHALL CONSTITUTE NO LESS THAN 5-PERCENT AND NO GREATER THAN 20-PERCENT (LOSS BY IGNITION).
- TOPSOIL SHALL BE AMENDED, IF REQUIRED, IN ACCORDANCE WITH THE RI SESC HANDBOOK, SECTION 4. IF THE PH OF THE SOIL IS LESS THAN 6.0, AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH RECOMMENDATIONS TO ATTAIN A PH AS REQUIRED BY SELECTED VEGETATION.
- TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, OR WHEN THE SUBGRADE IS EXCESSIVELY WET. PRIOR TO THE PLACEMENT OF TOPSOIL, THE SURFACE SHALL BE GRADED FREE OF ROOTS, SOD, WEEDS, COBBLES, OR STONES GREATER THAN 1-INCH. IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHOULD BE LOOSENED BY SCARIFYING OR TRACKING TO A DEPTH OF AT LEAST 2 INCHES. FOR SLOPES 2:1 THROUGH 5:1, SLOPE TRACKING (SURFACE ROUGHENING) IS REQUIRED PRIOR TO THE PLACEMENT OF TOPSOIL TO IMPROVE BONDING.

**TEMPORARY VEGETATIVE CONTROL MEASURES**

- ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER (GRASS AND/OR LEGUMES) SHALL BE REQUIRED ON DISTURBED ROADWAY SHOULDERS, PORTIONS OF DISTURBED HOUSE LOTS AND DESIGNATED STORMWATER AREAS ON SOILS EXPOSED FOR A PERIOD GREATER THAN ONE MONTH BUT LESS THAN 12 MONTHS.
- FOR TEMPORARY SEEDING, FERTILIZER WITH THE FOLLOWING PERCENTAGES BY WEIGHT MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE.
  - 10% NITROGEN (N)
  - 10% PHOSPHORIC ACID (P)
  - 10% POTASSIUM (K)
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER) ACHIEVING GOOD SEED TO SOIL CONTACT. HYDROSEEDING, WHICH INCLUDES MULCH, MAY BE LEFT ON THE SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN HYDROSEEDING. IRRIGATION MAY BE NECESSARY TO ESTABLISH NEWLY SEEDD AREAS SHOULD DROUGHT CONDITIONS OCCUR AFTER THE EMERGENCE OF SEED.
- SEED SHALL CONSIST OF RIDOT TEMPORARY SEED MIX.
 

NO.	SEED MIXTURE (VARIETY)	LBS / ACRES	LBS / 1000 SQ FT
3	* CREEPING RED FESCUE	20	0.45
	REDTOP	2	0.05
	TALL FESCUE (KENTUCKY 31)	20	0.45

  - \* RI SESC HANDBOOK, FIGURE 3; ALSO REFERENCED AS RIDOT TEMPORARY SEED MIX.

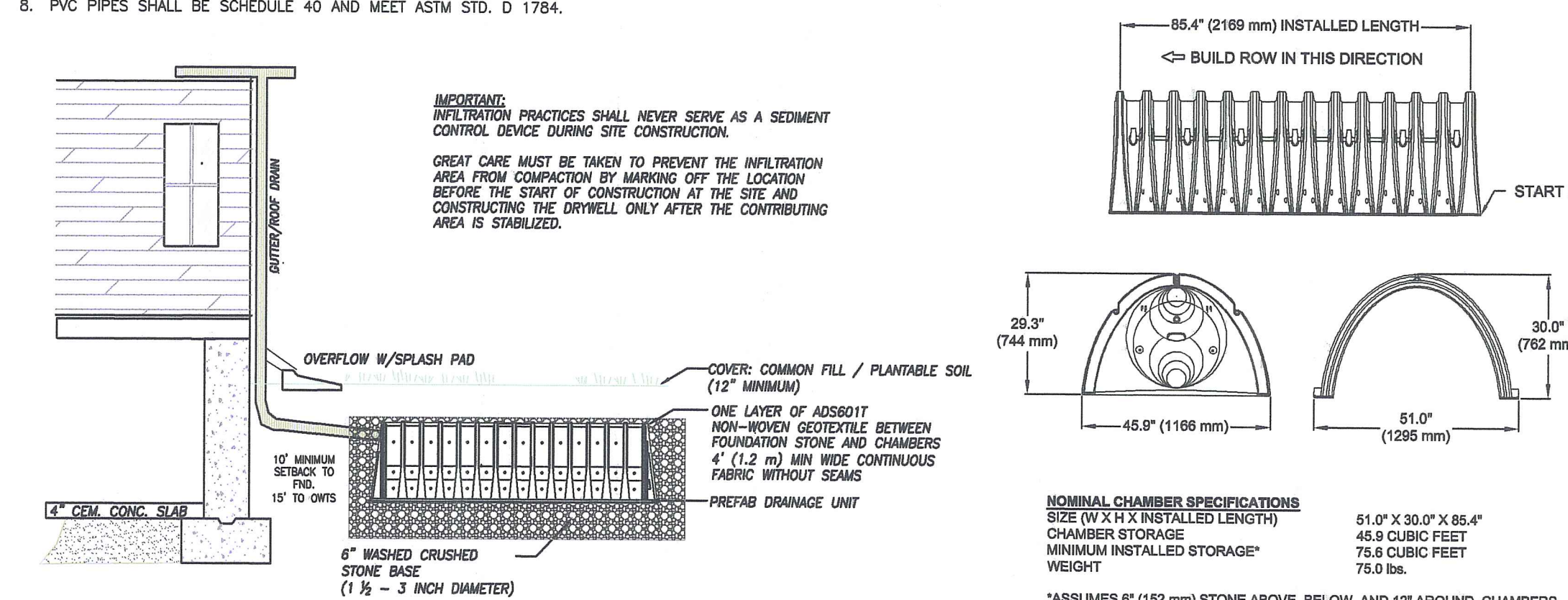
**TEMPORARY NON-VEGETATIVE CONTROL MEASURES**

IF THE GROWING SEASON HAS PASSED, BIODEGRADABLE MULCH SHALL BE APPLIED TO AREAS WITH SOILS EXPOSED FOR A PERIOD GREATER THAN FOURTEEN DAYS BUT LESS THAN 5 MONTHS. BIODEGRADABLE MULCH MAY CONSIST OF ONE OF THE FOLLOWING:

- EROSION CONTROL MIX: ACCEPTABLE EROSION CONTROL MIX INCLUDES SHREDDED OR COMPOSTED BARK, STUMP GRINDINGS, OR OTHER COMPOSTED WOOD PRODUCTS WHICH WILL EVENTUALLY ALLOW THE GROWTH OF VEGETATION, IF DESIRED. GROUND CONSTRUCTION DEBRIS, OR PROCESSED WOOD ARE NOT ACCEPTABLE. THE EROSION CONTROL MIX SHALL BE APPLIED AS A LAYER AT LEAST THREE INCHES THICK, WHICH PROVISIONS MADE TO ENSURE THE MIX IS NOT COMPACTED.
- WOOD MULCH: WOOD CHIPS / SHREDDED BARK SHALL BE APPLIED 6 CUBIC YARDS PER 1,000 S.F. AND SHALL BE FREE FROM WEEDS AND ANCHORED WITH MULCH NETTING.
- HAY MULCH: USE HAY MULCH AS A TEMPORARY MEASURE TO PROTECT BARE SOILS OR TO COVER NEWLY SEEDD AREAS. APPLY AT A RATE OF TWO SQUARE BALES (70-90 POUNDS) PER 1000 SQ FT OR 2 TO 3 TONS (90-100 BALES) PER ACRE. ANCHOR THE HAY MULCH USING ONE OF THE FOLLOWING METHODS:
  - STAPLE JUTE OR PLASTIC NETTING OVER THE MULCH ACCORDING TO THE NET OR JUTE MANUFACTURER'S RECOMMENDATIONS.
  - STRETCH THINE BETWEEN PEGS IN A CRISSCROSS PATTERN OVER THE MULCH (4-6 PEGS PER SQUARE YARD).

**ROOFTOP DRYWELL INSTALLATION**

- INFILTRATION TRENCH OR CHAMBER SYSTEMS MAY NOT RECEIVE RUN-OFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO THE INFILTRATION SYSTEM HAS RECEIVED FINAL STABILIZATION. CONSTRUCTION EQUIPMENT AND TRAFFIC SHALL BE RESTRICTED FROM TRAVELING OVER THE INFILTRATION TRENCH OR CHAMBER AREAS TO MINIMIZE COMPACTION OF THE SOIL.
- EXCAVATE THE INFILTRATION CHAMBER TO THE DESIGN DIMENSIONS. EXCAVATED MATERIALS SHALL BE PLACED AWAY FROM THE TRENCH/CHAMBER SIDES TO ENHANCE TRENCH WALL STABILITY. LARGE TREE ROOTS MUST BE TRIMMED FLUSH WITH THE TRENCH SIDES IN ORDER TO PREVENT FABRIC PUNCTURING OR TEARING OF THE FILTER FABRIC DURING SUBSEQUENT INSTALLATION PROCEDURES. THE SIDE WALLS OF THE TRENCH/CHAMBER SHALL BE ROUGHENED WHERE SHEARED AND SEALED BY HEAVY EQUIPMENT.
- INFILTRATION CHAMBERS SHOULD CONSIST OF STORITTECH SC-740 CHAMBERS. ANY SUBSTITUTIONS MUST BE OF EQUAL SIZE AND COMPRISED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HDPE) AND MEET ASHTO H10 AND H20 STANDARDS.
- A CLASS "C" GEOTEXTILE OR BETTER SHALL INTERFACE BETWEEN THE TRENCH/CHAMBER SIDE WALLS AND BETWEEN THE STONE RESERVOIR AND GRAVEL FILTER LAYERS. A PARTIAL LIST OF NONWOVEN FILTER FABRICS THAT MEET THE CLASS "C" CRITERIA IS CONTAINED INCLUDES (ADS 601-T, MIRAFI 180-N, AMOCO 4552, WEBTEC N70, GEOLON T70, CARTRAGE FX-805)
- THE WIDTH OF THE GEOTEXTILE MUST INCLUDE SUFFICIENT MATERIAL TO CONFORM TO TRENCH/CHAMBER PERIMETER IRREGULARITIES AND FOR A 6-INCH MINIMUM TOP OVERLAP. THE FILTER FABRIC SHALL BE TUCKED UNDER THE SAND LAYER ON THE BOTTOM OF THE INFILTRATION TRENCH/CHAMBER FOR A DISTANCE OF 6 TO 12 INCHES.
- THE STONE AGGREGATE SHOULD BE PLACED IN LIFTS AND COMPACTED USING PLATE COMPACTORS. A MAXIMUM LOOSE LIFT THICKNESS OF 8 INCHES IS RECOMMENDED. THE GRAVEL STONE FOR THE INFILTRATION TRENCH/CHAMBER SHALL BE WASHED AND MEET ONE OF THE FOLLOWING ASHTO STD. M-43; SIZE NO. 2 OR NO. 3.
- VOIDS CAN BE CREATED BETWEEN THE FABRIC AND THE EXCAVATION SIDES AND SHALL BE AVOIDED. REMOVING BOULDERS OR OTHER OBSTACLES FROM THE TRENCH WALLS OR TOP OF SUCH VOIDS, THEREFORE, NATURAL SOILS SHOULD BE PLACED IN THESE VOIDS AT THE MOST CONVENIENT TIME DURING CONSTRUCTION TO ENSURE FABRIC CONFORMITY TO THE EXCAVATION SIDES.
- PVC PIPES SHALL BE SCHEDULE 40 AND MEET ASTM STD. D 1784.



**ROOF DRYWELL INFILTRATION SYSTEM**

**DRY SWALE CONSTRUCTION NOTES:**

- THE DRY SWALE SHALL BE CONSTRUCTED FOLLOWING THE COMPLETION AND STABILIZATION OF OTHER SITE WORK. COMPACTION OF THE SWALE AREA PRIOR TO AND DURING CONSTRUCTION MUST BE AVOIDED. EXCAVATION SHALL BE COMPLETED USING LIGHT EQUIPMENT WITH WIDE TRACKS. IF THE AREA DOES BECOMES COMPACTED, SOIL MUST BE TILLED TO A MINIMUM DEPTH OF 12".
- COMPACTION CAN BE ALLEVIATED AT THE BASE OF THE SWALE BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, ROLLER, OR SUBSOILER. THESE TILLING OPERATIONS ARE PERFORMED TO REFRACATURE THE SOIL PROFILE THROUGH THE 12-IN COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER. ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENOUGH TO REDUCE THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT.
- PLANTING MEDIA SHALL BE PLACED IN 12" LIFTS.
- THE ROLLED EROSION CONTROL/VEGETATION MAT SHALL BE GROUND FASTENED AS DIRECTED BY THE MANUFACTURER. THE MAT SHALL BE FASTENED EVERY 15'.
- INSTALL HAND PLACED STONES TO FORM EROSION CHECK DAM ACROSS FULL SWALE, AS DIRECTED; 12-18" HIGH, SPILLWAY WITHIN SWALE.

**MATERIALS**

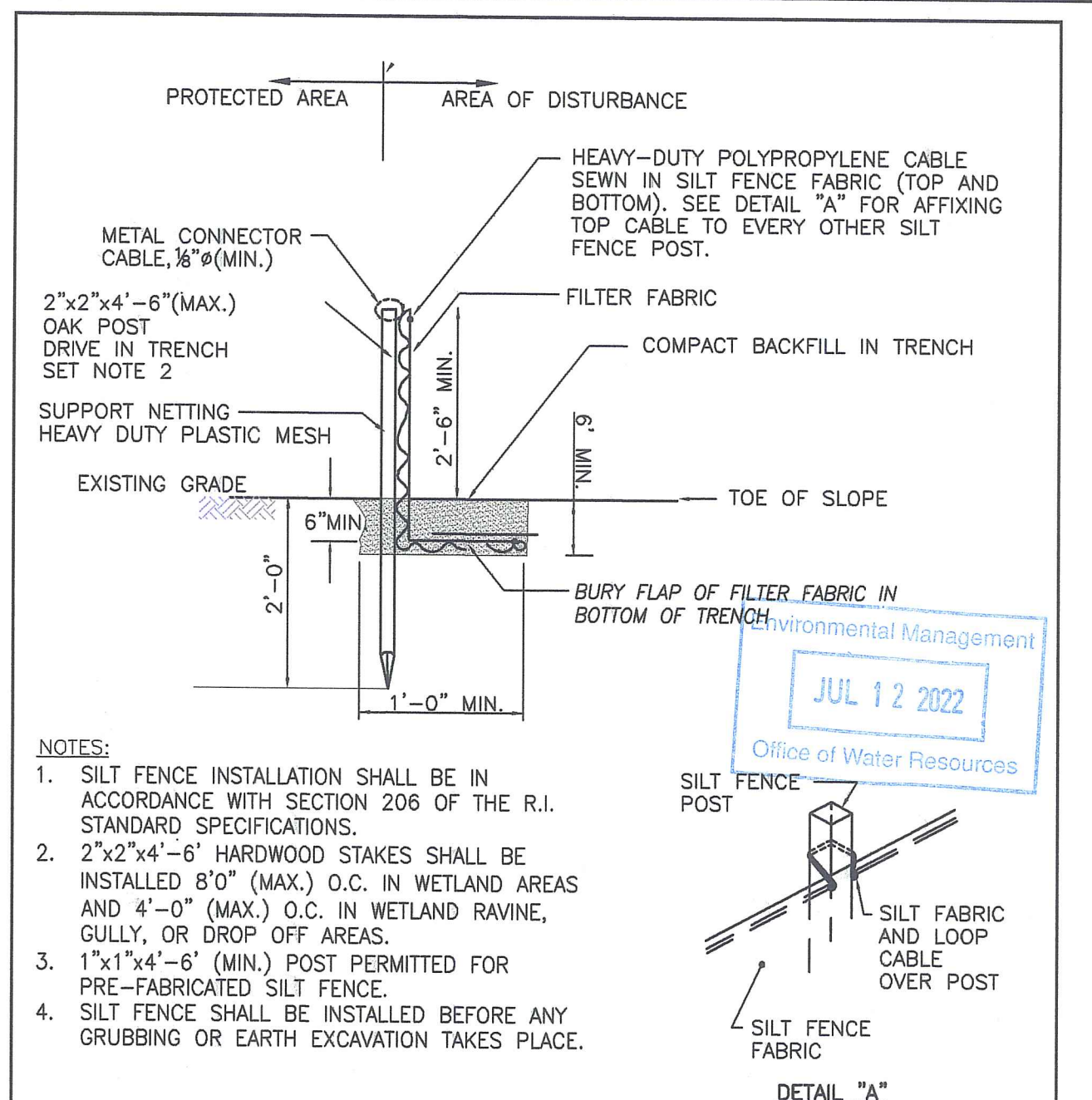
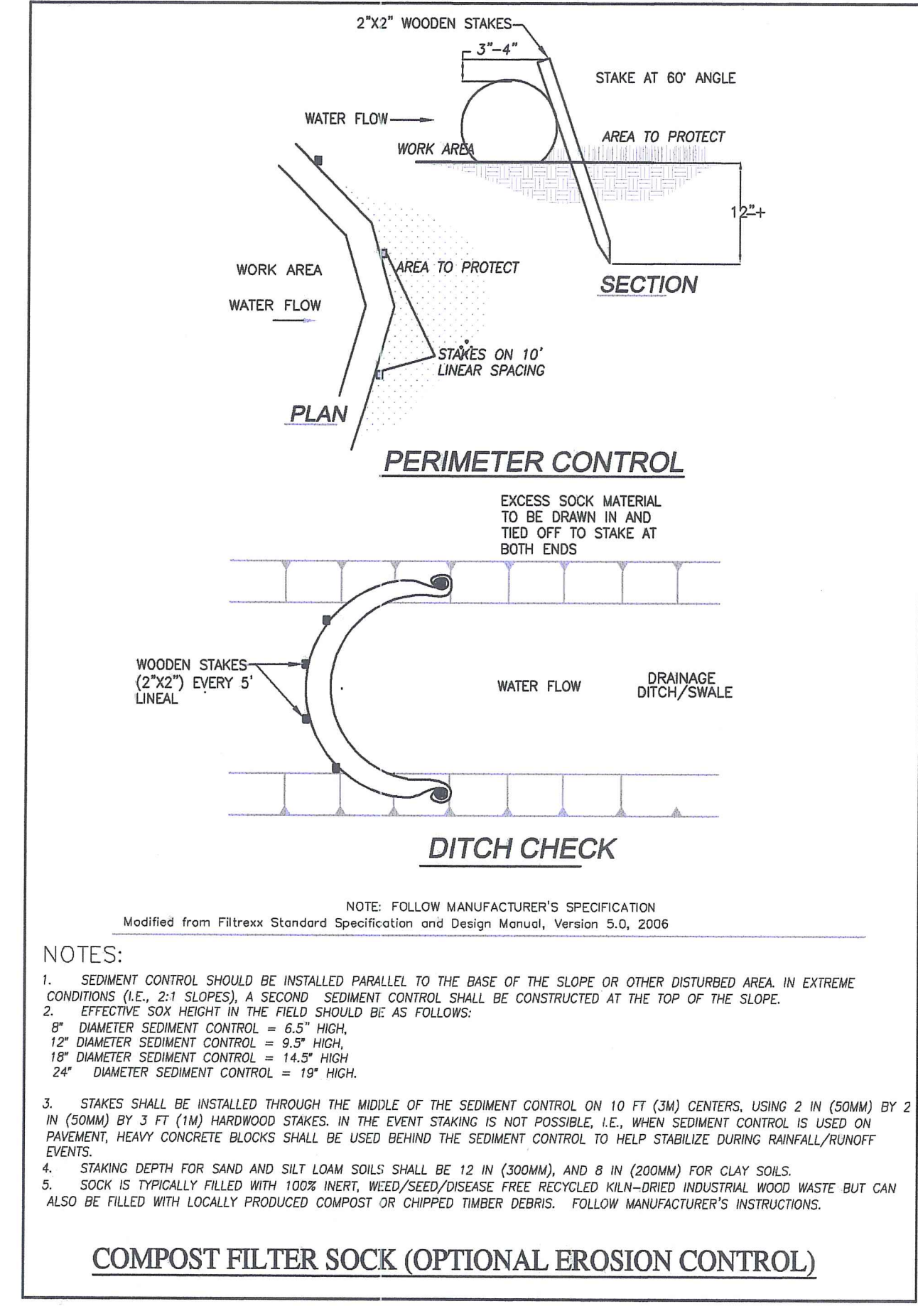
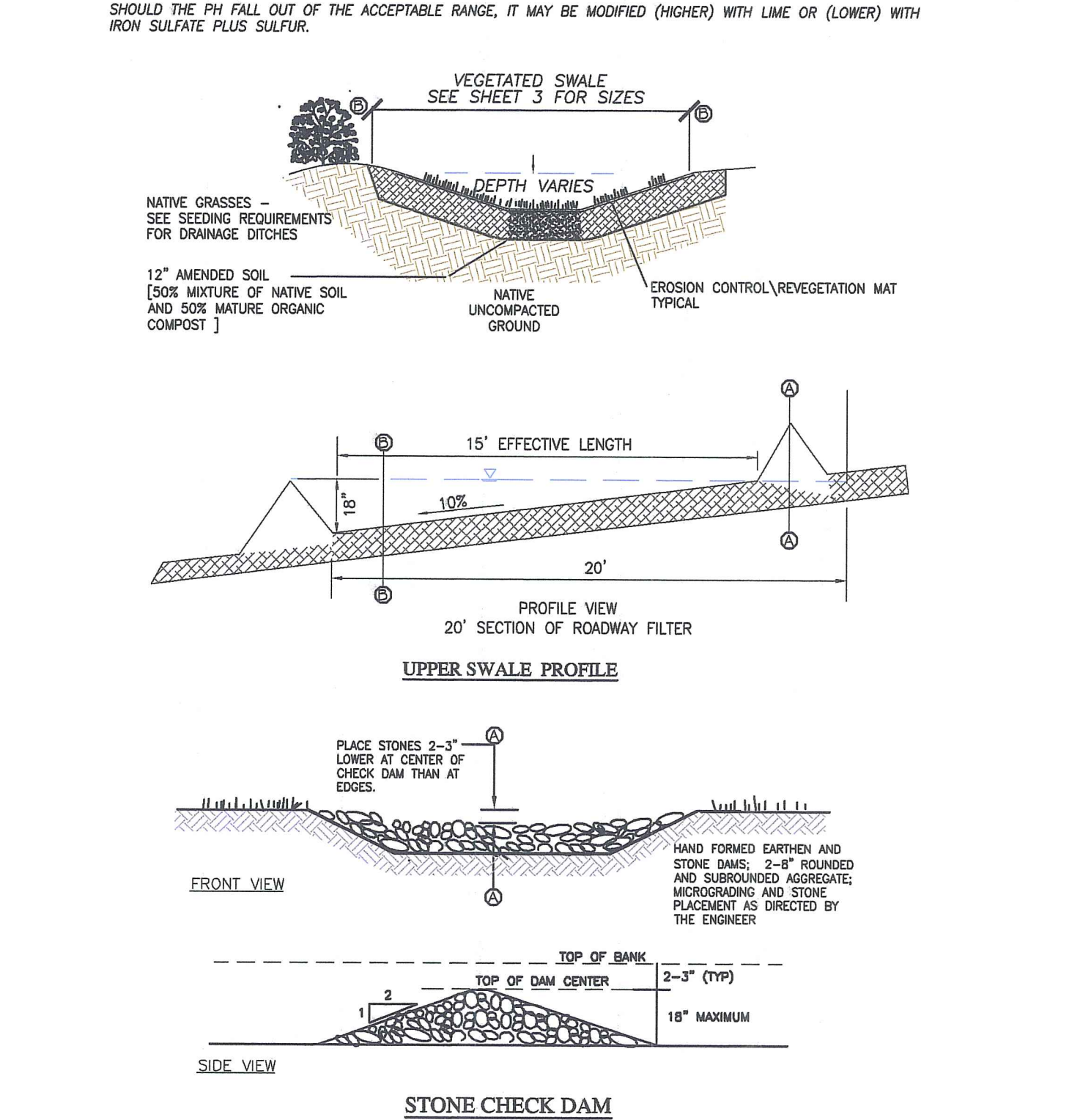
80-RETENTION MEDIA - THE MATERIAL TO BE FURNISHED SHALL BE A UNIFORM MIX FREE OF SUBSOIL, REFUSE, STUMPS, ROOTS, ROCKS, BRUSH, WEEDS OR OTHER MATERIAL WHICH WOULD PREVENT THE FORMATION OF A SUITABLE SEED BED. THE MEDIA SHALL CONSIST OF THE 4 PARTS PLANTING SOIL & 1 PART WELL AGED, AERATED, LEAF COMPOST.

US STANDARD SIEVE SIZE	SIEVE SIZE (IN.)	MATERIAL	% PASSING
NO. 4	0.0187	GRAVEL	100
NO. 10	0.075	VERY COARSE SAND	95
NO. 40	0.017	SAND	40
NO. 200	0.003	SILT	20
NO. > 200	> 0.001	CLAY	5

A TEXTURAL ANALYSIS IS REQUIRED TO ENSURE THE BIORETENTION SOIL MEETS THE SPECIFICATION LISTED ABOVE. THE BIORETENTION SOIL SHOULD ALSO BE TESTED FOR THE FOLLOWING CRITERIA:

- PH RANGE 5.2 - 7.0
- SOLUBLE SALTS NOT TO EXCEED 500 PPM
- SOIL INFILTRATION RATE = MIN. 8" PER HOUR

SHOULD THE PH FALL OUT OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED (HIGHER) WITH LIME OR (LOWER) WITH IRON SULFATE PLUS SULFUR.



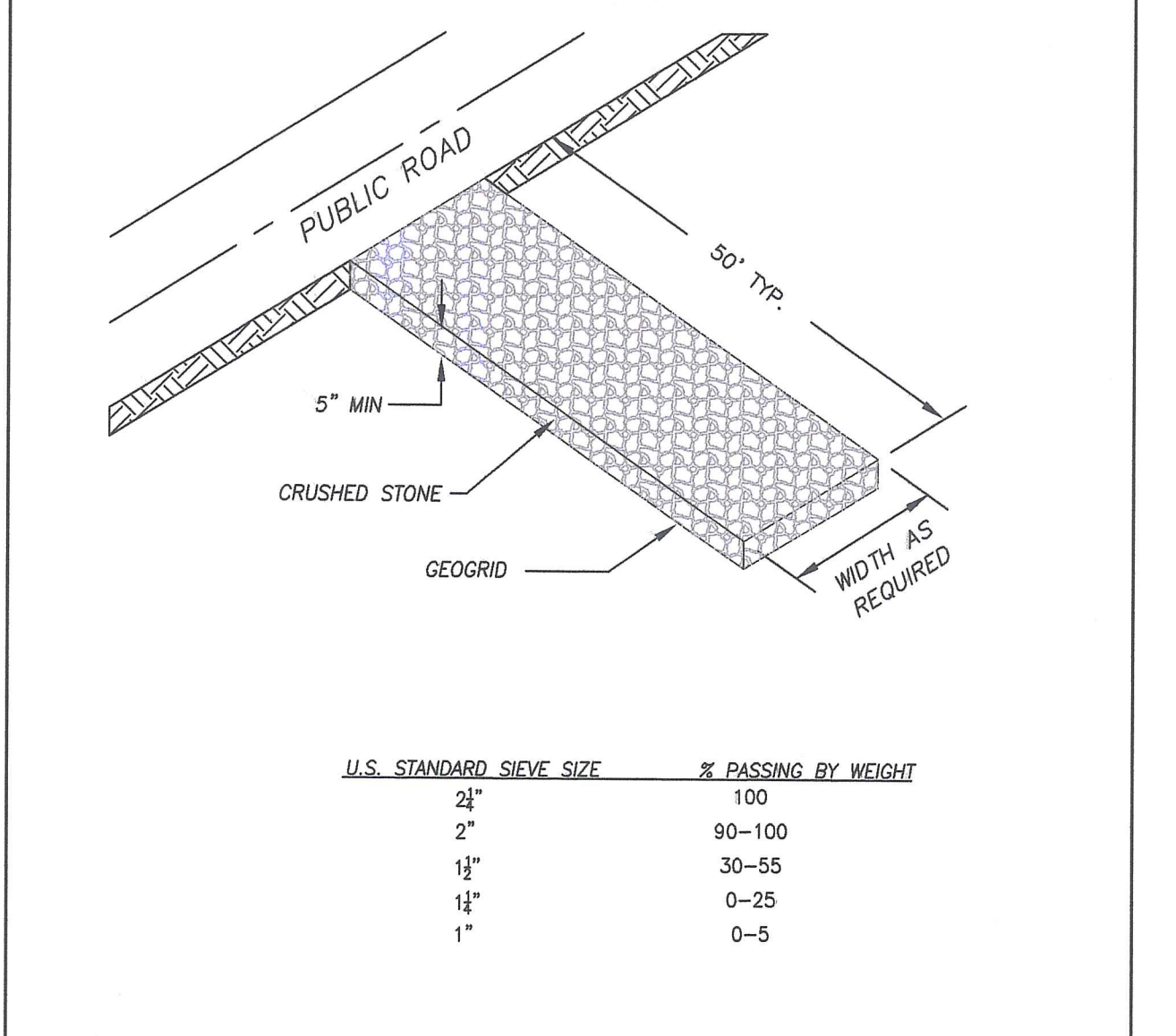
**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**

**SILT FENCE DETAIL**

REVISIONS: NO. BY DATE

ISSUE DATE: JUNE 15, 1998

R.I. STANDARD 9.2.0



**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION ACCESS**

REVISIONS: NO. BY DATE

ISSUE DATE: JUNE 15, 1998

R.I. STANDARD 9.9.0

**EROSION CONTROL DETAILS**

PLAT 125 / LOT 38  
SHERMAN FARM ROAD  
BURRILLVILLE, RHODE ISLAND

PREPARED BY:  
AUGUST CIVIL DESIGN  
16 WEST MAIN STREET  
WICKFORD, RHODE ISLAND 02852  
PHONE: (401) 500-3769

OWNER / APPLICANT:  
MANDY & JOHN RIDER  
1150 VICTORY HIGHWAY  
OAKLAND, RHODE ISLAND 02858

REV. DATE DESCRIPTION DATE: 7/13/21

1	9/17/21	RIDEM COMMENTS	SCALE: NTS
2	3/23/22	SWALE DETAILS	
3	5/9/22	DEM COMMENTS	

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