

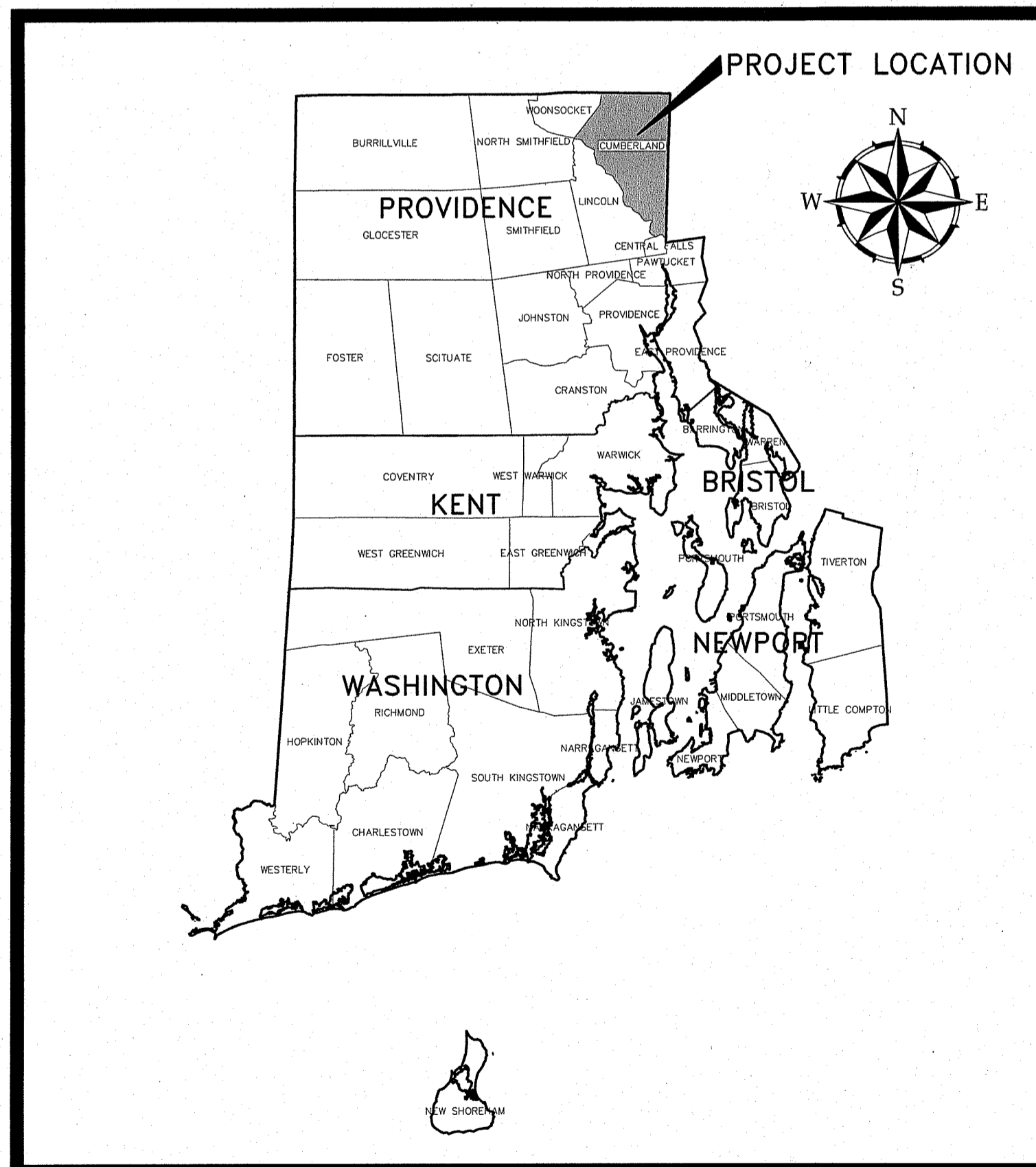
TOWN OF CUMBERLAND 45 BROAD STREET CUMBERLAND RHODE ISLAND 02864 SCHOFIELD FARM WELL FACILITY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 27 2021 FILE # 21-0106
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Senack

PROJECT NO. 231096.10

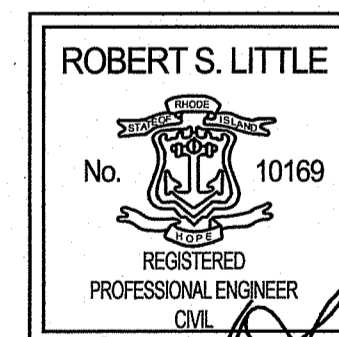
APRIL, 2021

PERMITTING REVIEW SET -
NOT FOR CONSTRUCTION



PROJECT LOCATION MAP

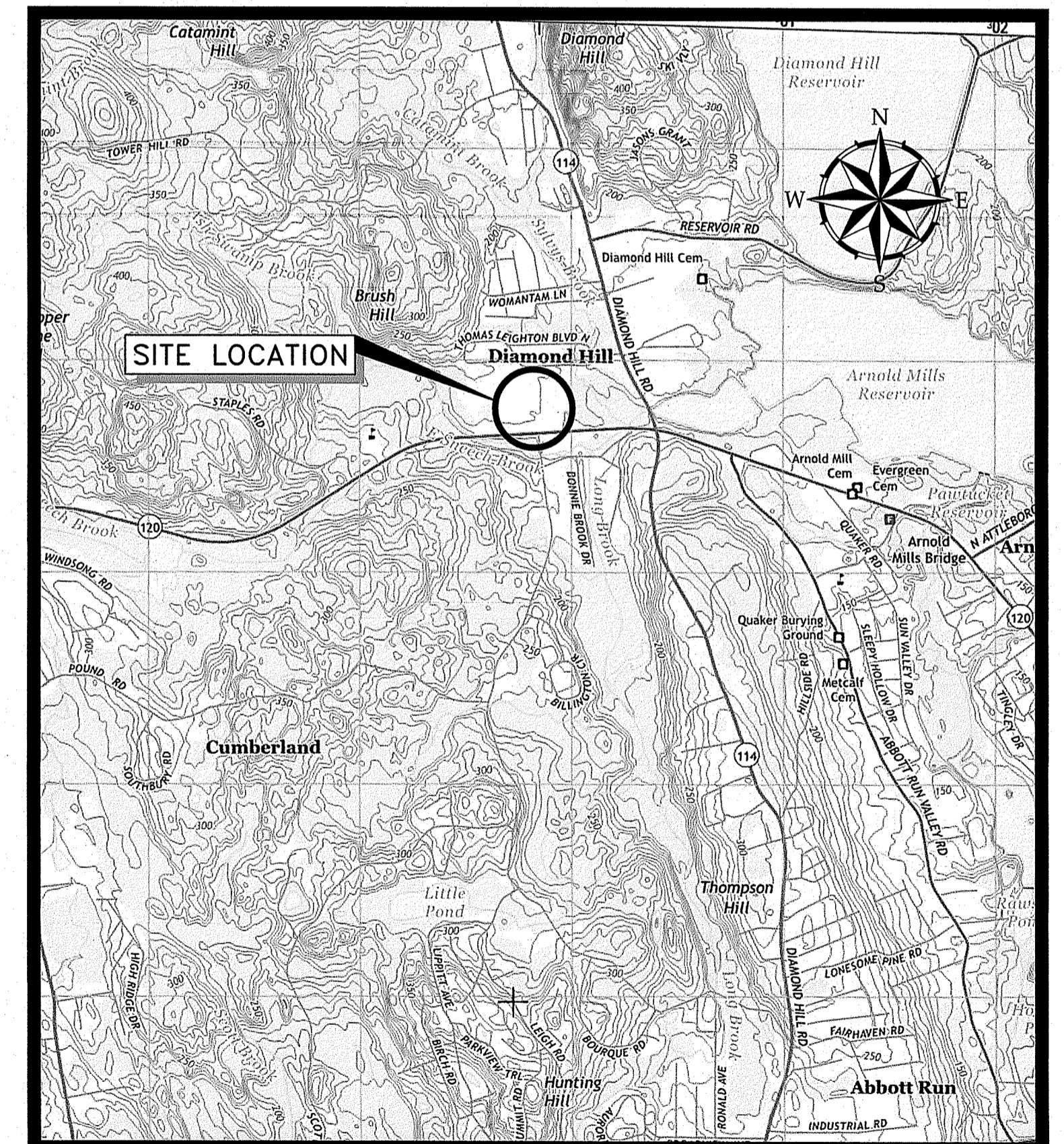
50 0 50 100
scale mile



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COMMITMENT & INTEGRITY DRIVE RESULTS



SOURCE: USGS TOPOGRAPHIC MAP

SITE LOCATION MAP

1 0 1
scale mile
2000 0 2000 4000
scale feet

Environmental Management
OCT 12 2021
Office of Water Resources

SHEET INDEX	
SHEET NUMBER	SHEET DESCRIPTION
GENERAL	
G-000	COVER SHEET
G-001	SHEET INDEX AND GENERAL NOTES
CIVIL	
C-001	CIVIL NOTES, LEGEND AND ABBREVIATIONS
C-100	EXISTING CONDITIONS
CD-100	SITE DEMOLITION AND EROSION CONTROL PLAN
C-101	OVERALL SITE, GRADING AND YARD PIPING PLAN
C-102	WELL FACILITY SITE, GRADING AND YARD PIPING ENLARGED PLAN
C-501	CIVIL DETAILS 1
C-502	CIVIL DETAILS 2

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
2. THE LOCATION, TYPE AND SIZE OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROUND STRUCTURES SHOWN ON THE DRAWINGS ARE NOT WARRANTED TO BE EXACT NOR IS IT WARRANTED THAT ALL UNDERGROUND STRUCTURES ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS.
3. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH THE OWNER, UTILITY COMPANIES AND EMERGENCY SERVICES.
4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIM/HERSELF WITH THE CONDITIONS RELATING TO THE CONSTRUCTION AND PERFORMANCE OF THE WORK AS SHOWN ON THE DRAWINGS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE MATERIALS AND LABOR NECESSARY TO CARRY OUT THE PROVISIONS OF THE CONTRACT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS THAT CONFLICT WITH THE PROPOSED WORK SHOWN ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITY'S SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR.
7. IN SO FAR AS POSSIBLE, THE CONTRACTOR SHALL PERFORM ALL THE WORK OF THIS PROJECT IN A MANNER THAT DOES NOT INTERFERE WITH THE WORK OF OTHERS OR THE OWNER'S OPERATIONS AT THE SITE. COORDINATE WITH THE OWNER TO ENSURE THAT THE WORK OF THIS PROJECT DOES NOT INCUR UNANTICIPATED INTERFERENCES. ALL CONSTRUCTION PHASING AND OPERATIONS SHALL BE COORDINATED WITH THE OWNER.
8. THE CONTRACTOR SHALL SUPERVISE AND INSPECT THE WORK OF THIS PROJECT IN AN EFFICIENT AND COMPETENT MANNER. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCE AND PROCEDURES USED TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE WORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. A REPRESENTATIVE OF THE GENERAL CONTRACTOR SHALL BE PRESENT DURING ALL PHASES OF THE WORK.
9. AS-BUILT DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROVIDED TO THE OWNER/ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL INCLUDE SWING-TIE LOCATIONS TO UNDERGROUND AND ABOVEGROUND UTILITIES INCLUDING ANY PIPE BENDS, TEES, VALVES, UNDERGROUND STRUCTURES, FULL BOXES, ETC. AND SHALL INCLUDE DEPTH OF COVER AND INVERT ELEVATIONS. AS-BUILTS SHALL INCLUDE LOCATIONS OF EXISTING UTILITIES WHICH ARE EXPOSED DURING CONSTRUCTION.
10. IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT PERMIT CONDITIONS, THE CONTRACTOR SHALL FILE A NOTICE OF START OF CONSTRUCTION FORM AND A TERMINATION OF CONSTRUCTION FORM, POST A RIDEM SIGN AT THE CONSTRUCTION SITE, AND PERFORM RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) INSPECTIONS IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT.

Environmental Management
OCT 12 2021
 Office of Water Resources

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ROBERT S. LITTLE
 No. 10169
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

REV	DESCRIPTION	DATE
A	ISSUE FOR RIDEM REVIEW	4/19/2021
DESIGNED BY:	AEF	CHECKED BY: RSL
DRAWN BY:	JDE	23109610-001.dwg

SHEET INDEX AND GENERAL NOTES

TOWN OF CUMBERLAND
 45 BROAD STREET
 CUMBERLAND RHODE ISLAND 02864

SCHOFIELD FARM
 WELL FACILITY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED **OCT 27 2021** FILE # **21-0106**
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Matthew D. Senechal

JOB NO: 231096.10
 DATE: APRIL, 2021
 SCALE: AS NOTED
 SHEET: 1 OF 8

G-001

\\woodardcurran.net\shared\Projects\2021\098_10 Cumberland RI Schofield Farm Addl Eng Svcs\wip\Drawings\General\23109610-G-001.dwg, Apr 16, 2021, 3:13pm, JEVERETT

UTILITY NOTES:

- 1. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY UTILITY CONNECTIONS OR CROSSINGS...

SEDIMENTATION & EROSION CONTROL NOTES:

- 1. SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO BEGINNING OF CONSTRUCTION ACTIVITIES. CONTRACTOR TO NOTIFY THE ENGINEER AND THE OWNER AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION ACTIVITIES.

EXISTING CONDITIONS NOTES:

- 1. EXISTING CONDITIONS SURVEY BASED UPON ELECTRONIC CAD PLAN PROVIDED BY NATIONAL SURVEYORS-DEVELOPERS, INC. IN MARCH 2021.

CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION IN ACCORDANCE WITH STATE OF RHODE ISLAND, GENERAL LAW C39-1.2.

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ABBREVIATIONS

Table with columns for symbol, description, and abbreviation. Includes items like ANCHOR BOLTS (AB), AGGREGATE (AGGR), ALTERNATE (ALT), ALUMINUM (ALUM), etc.

CIVIL SYMBOLS

Table with columns for DESCRIPTION, EXISTING, and PROPOSED. Includes symbols for SANITARY SEWER MANHOLE, STORM DRAIN MANHOLE, CATCH BASIN, etc.

EXISTING LINETYPES

Table showing existing linetypes for CONTOUR (1' OR 2' INTERVAL), SANITARY SEWER, FORCE MAIN, STORM DRAIN, DRAIN, WATER MAIN, UNDERGROUND ELECTRIC, GAS LINE, OVERHEAD ELECTRIC, CULVERT, PROPERTY LINE, RIGHT OF WAY, EASEMENT, etc.

PROPOSED LINETYPES

Table showing proposed linetypes for CONTOUR (1' OR 2' INTERVAL), CONTOUR (INDEX), SANITARY SEWER, FORCE MAIN, STORM DRAIN, DRAIN, UNDERDRAIN, WATER MAIN, TEMPORARY WATER MAIN, UNDERGROUND ELECTRIC, GAS LINE, OVERHEAD ELECTRIC, CULVERT, HOUSE SERVICE / LATERAL, EDGE OF VEGETATION, FENCE, CENTERLINE, RETAINING WALL, STONEMALL, CURB, EDGE OF PAVEMENT, EDGE OF GRAVEL, GUARDRAIL, 200' RIVERBANK WETLAND BUFFER, 100' RIVERBANK WETLAND BUFFER, 50' PERIMETER WETLAND BUFFER, SEDIMENT BARRIER, LIMIT OF WORK.

Environmental Management
OCT 12 2021
Office of Water Resources

Table with columns for RESPONSE TO RIDE COMMENTS, ISSUE FOR RIDE COMMENTS, DATE, CHECKED BY, DESIGNED BY, DRAWN BY.

CIVIL NOTES, LEGEND AND ABBREVIATIONS

TOWN OF CUMBERLAND
45 BROAD STREET, RHODE ISLAND 02864
SCHOFIELD FARM
WELL FACILITY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 27 2021 FILE # 21-0106
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenzel

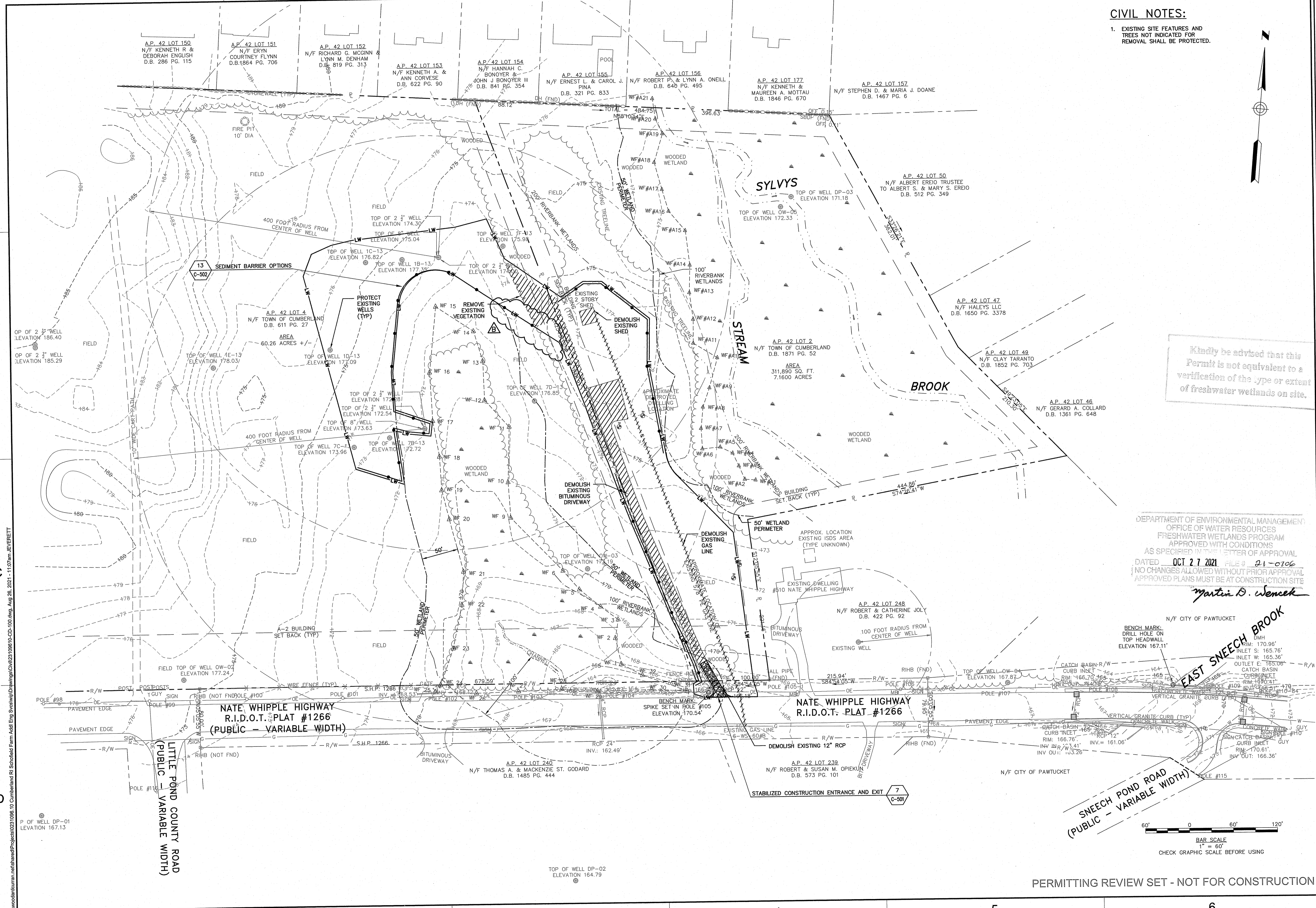
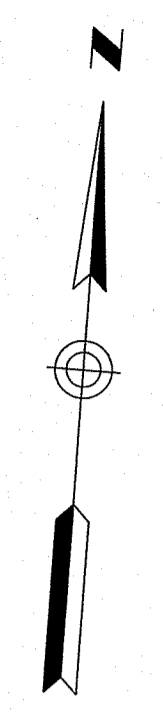
PERMITTING REVIEW SET - NOT FOR CONSTRUCTION

JOB NO: 231006.10
DATE: AUGUST, 2021
SCALE: AS NOTED
SHEET: 2 OF 8

C-001

CIVIL NOTES:

- 1. EXISTING SITE FEATURES AND TREES NOT INDICATED FOR REMOVAL SHALL BE PROTECTED.



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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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Martin D. Wenczek

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ROBERT S. LITTLE
 No. 10169
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF RHODE ISLAND

NO.	REVISION	DATE	CHECKED BY	DESIGNED BY	DRAWN BY
1	RESPONSE TO RFP COMMENTS	8/27/2021	AEF	AEF	JDE
2	ISSUE FOR RFP REVIEW	4/19/2022	AEF	AEF	JDE

SITE DEMOLITION AND EROSION CONTROL PLAN

TOWN OF CUMBERLAND
 45 BROAD STREET
 CUMBERLAND RHODE ISLAND 02864

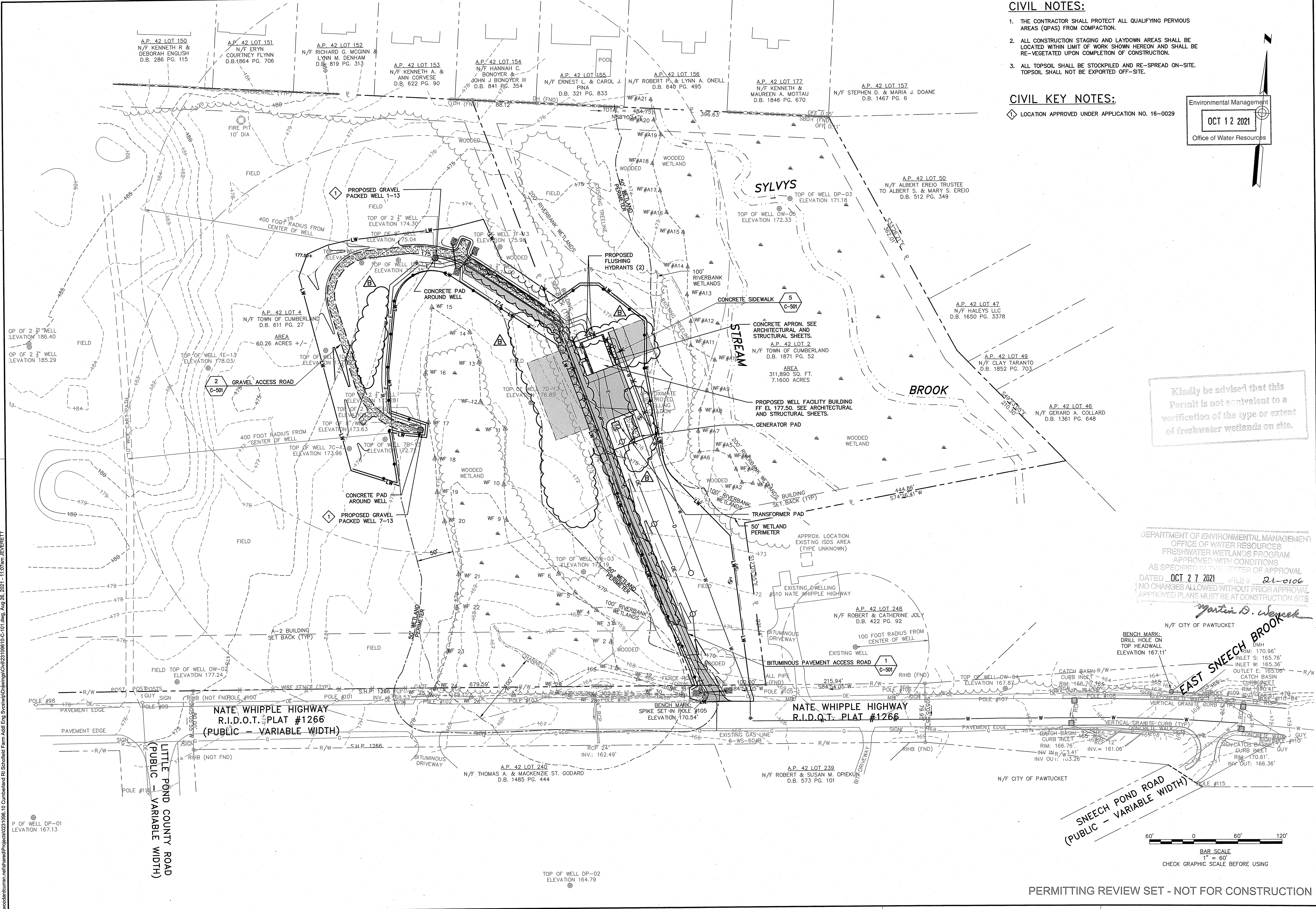
SCHOFIELD FARM
 WELL FACILITY

JOB NO: 231096.10
 DATE: AUGUST, 2021
 SCALE: 1"=60'
 SHEET: 4 OF 8

CD-100

PERMITTING REVIEW SET - NOT FOR CONSTRUCTION

WoodardCurran, Inc. 20210816-CD-100.dwg, Aug 26, 2021, 11:07am, JEVERETT

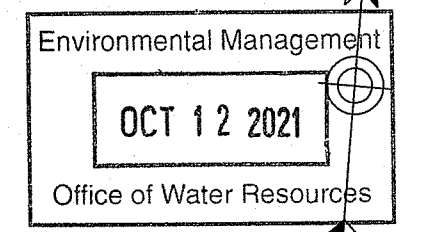


CIVIL NOTES:

1. THE CONTRACTOR SHALL PROTECT ALL QUALIFYING PERVIOUS AREAS (QPAS) FROM COMPACTION.
2. ALL CONSTRUCTION STAGING AND LAYDOWN AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK SHOWN HEREON AND SHALL BE RE-VEGETATED UPON COMPLETION OF CONSTRUCTION.
3. ALL TOPSOIL SHALL BE STOCKPILED AND RE-SPREAD ON-SITE. TOPSOIL SHALL NOT BE EXPORTED OFF-SITE.

CIVIL KEY NOTES:

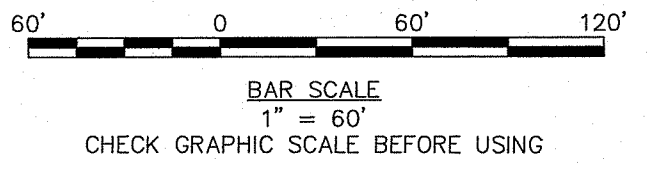
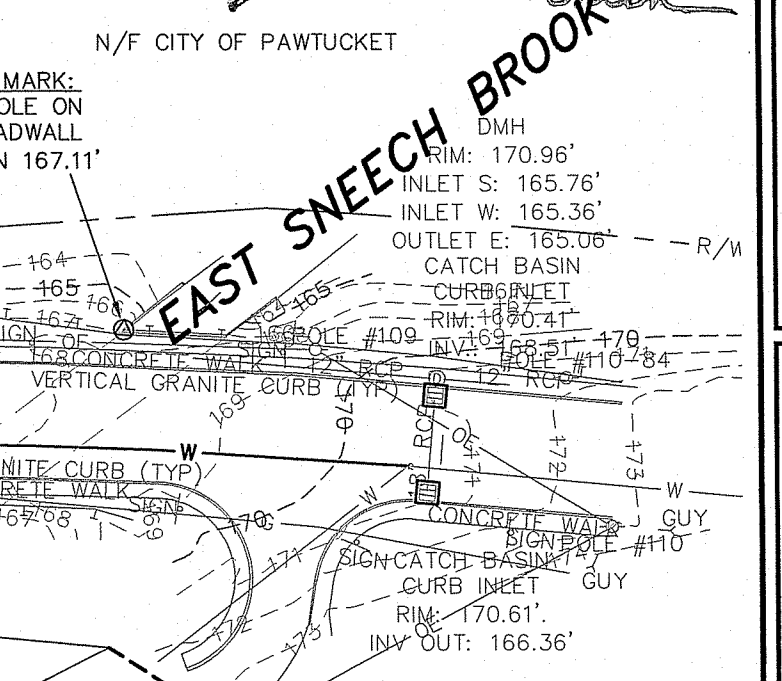
- ◆ LOCATION APPROVED UNDER APPLICATION NO. 16-0029



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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THIS LETTER OF APPROVAL
DATED OCT 27 2021 FILE # 21-0106
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenczek
N/F CITY OF PAWTUCKET



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ROBERT S. LITTLE
No. 10168
REGISTERED PROFESSIONAL ENGINEER
CIVIL

REV	DESCRIPTION	DATE	CHECKED BY:	DATE
A	ISSUE FOR REVIEW	4/19/2021	RLS	
B	RESPONSE TO REVIEW COMMENTS	8/27/2021	RLS	
C	ISSUE FOR REVIEW	4/19/2021	RLS	

DESIGNED BY: AEF
DRAWN BY: JDE

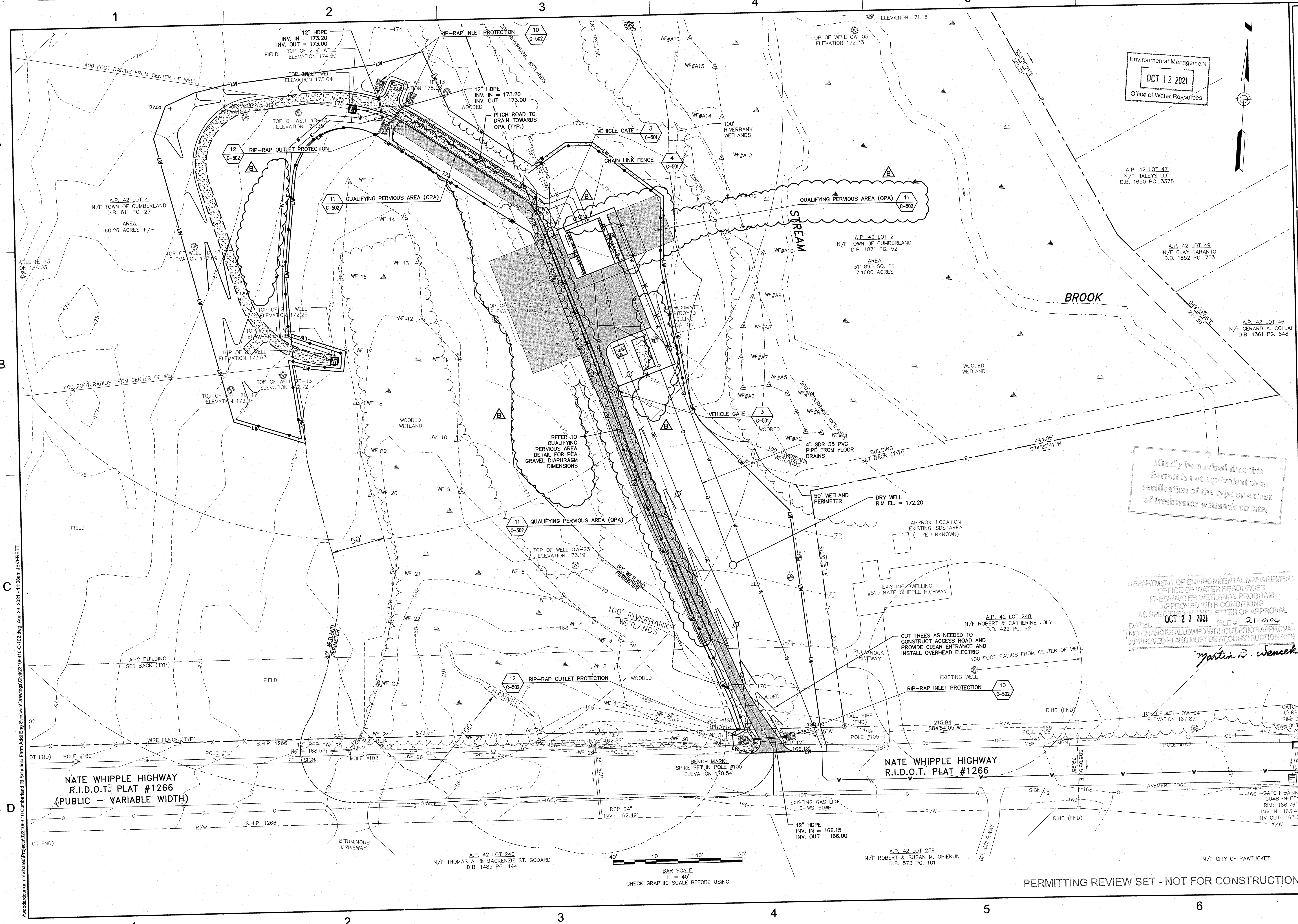
OVERALL SITE, GRADING AND YARD PIPING PLAN

TOWN OF CUMBERLAND
45 BROAD STREET
CUMBERLAND RHODE ISLAND 02864

SCHOFIELD FARM
WELL FACILITY

JOB NO: 231096.10
DATE: AUGUST, 2021
SCALE: 1"=60'
SHEET: 5 OF 8

C-101



Environmental Management
OCT 12 2021
 Office of Water Resources

A.P. 42 LOT 47
 N/F HALEYS LLC
 D.B. 1650 PG. 3378

A.P. 42 LOT 2
 N/F TOWN OF CUMBERLAND
 D.B. 1871 PG. 52
 AREA
 311,890 SQ. FT.
 7.1600 ACRES

A.P. 42 LOT 49
 N/F CLAY TARANTO
 D.B. 1852 PG. 703

A.P. 42 LOT 46
 N/F GERARD A. COLLAI
 D.B. 1361 PG. 648

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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OCT 27 2021 FILE # **21-0106**
 DATED
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Seneck

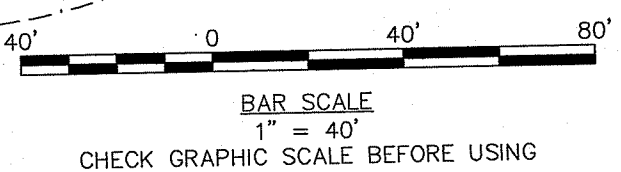
NATE WHIPPLE HIGHWAY
 R.I.D.O.T. PLAT #1266

NATE WHIPPLE HIGHWAY
 R.I.D.O.T. PLAT #1266
 (PUBLIC - VARIABLE WIDTH)

A.P. 42 LOT 240
 N/F THOMAS A. & MACKENZIE ST. GODARD
 D.B. 1485 PG. 444

A.P. 42 LOT 239
 N/F ROBERT & SUSAN M. OPIEKUN
 D.B. 573 PG. 101

N/F CITY OF PAWTUCKET



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ROBERT S. LITTLE
 No. 10169
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

NO.	REVISION	DATE	CHECKED BY	DATE
1	ISSUE FOR PERMIT REVIEW	4/10/2021	AEF	210820-C-102-001
2	RESPONSE TO RIDEA COMMENTS	8/27/2021	AEF	210820-C-102-002

**WELL FACILITY SITE,
 GRADING AND YARD PIPING
 ENLARGED PLAN**

TOWN OF CUMBERLAND
 45 BROAD STREET
 CUMBERLAND RHODE ISLAND 02864

SCHOFIELD FARM
 WELL FACILITY

JOB NO: 231096.10
 DATE: AUGUST, 2021
 SCALE: 1"=40'
 SHEET: 6 OF 8

C-102

PERMITTING REVIEW SET - NOT FOR CONSTRUCTION

W:\woodardcurran.net\shane\Projects\2021\096_10 Cumberland RI Schofield Farm Well Facility\Drawings\C-102.dwg, Aug 28, 2021, 11:08am, JEVERETT

1

2

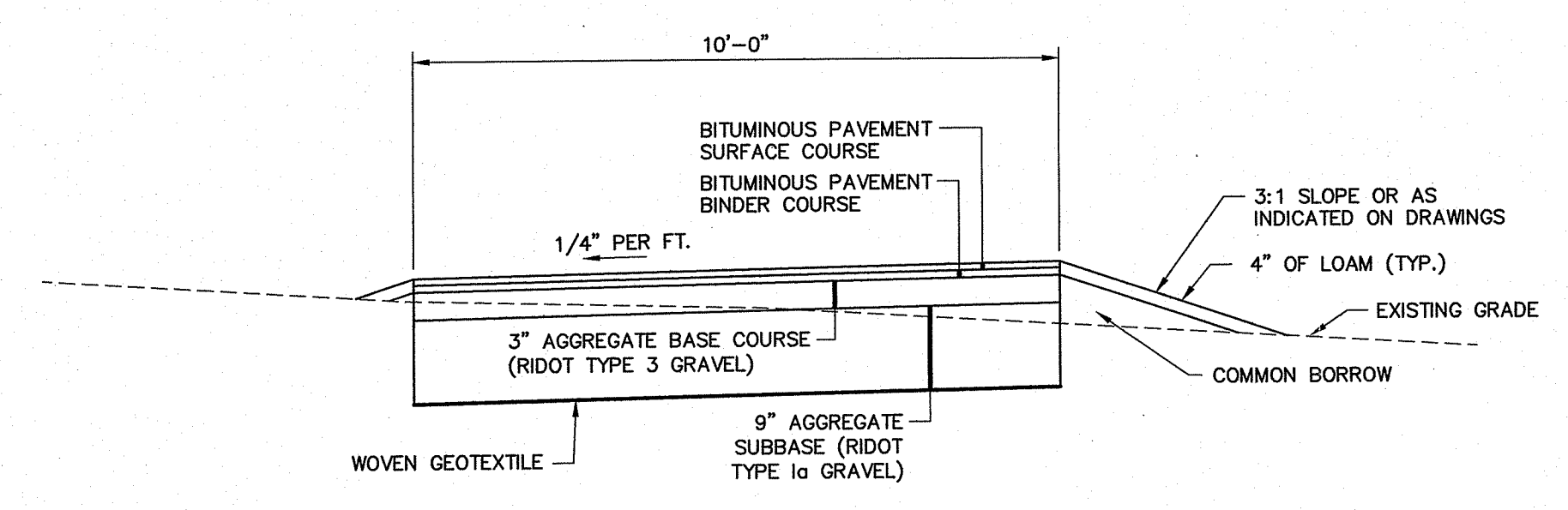
3

4

5

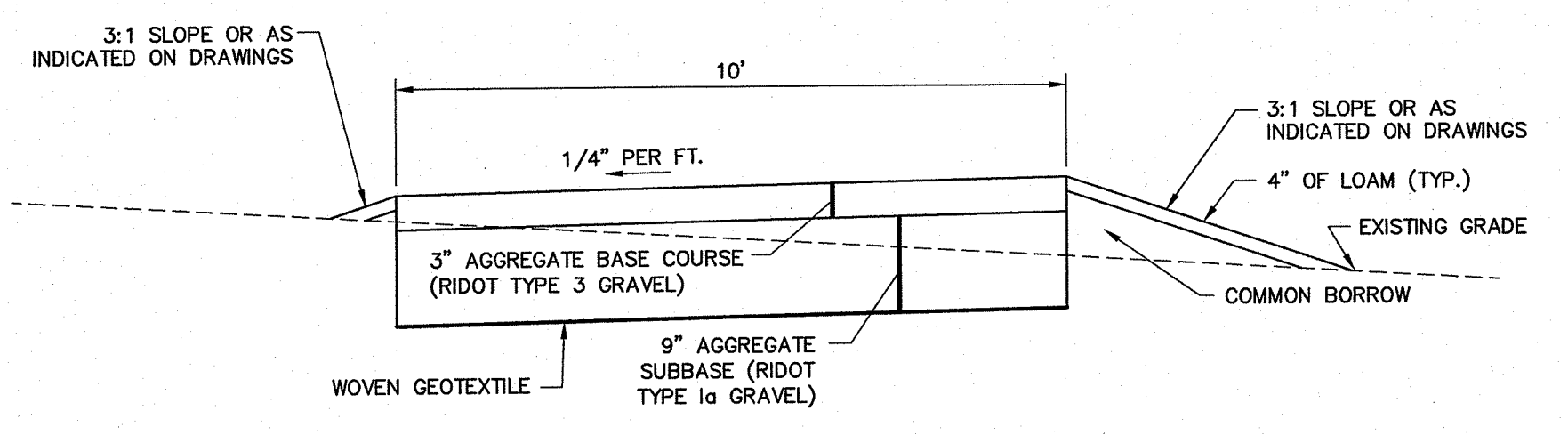
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A



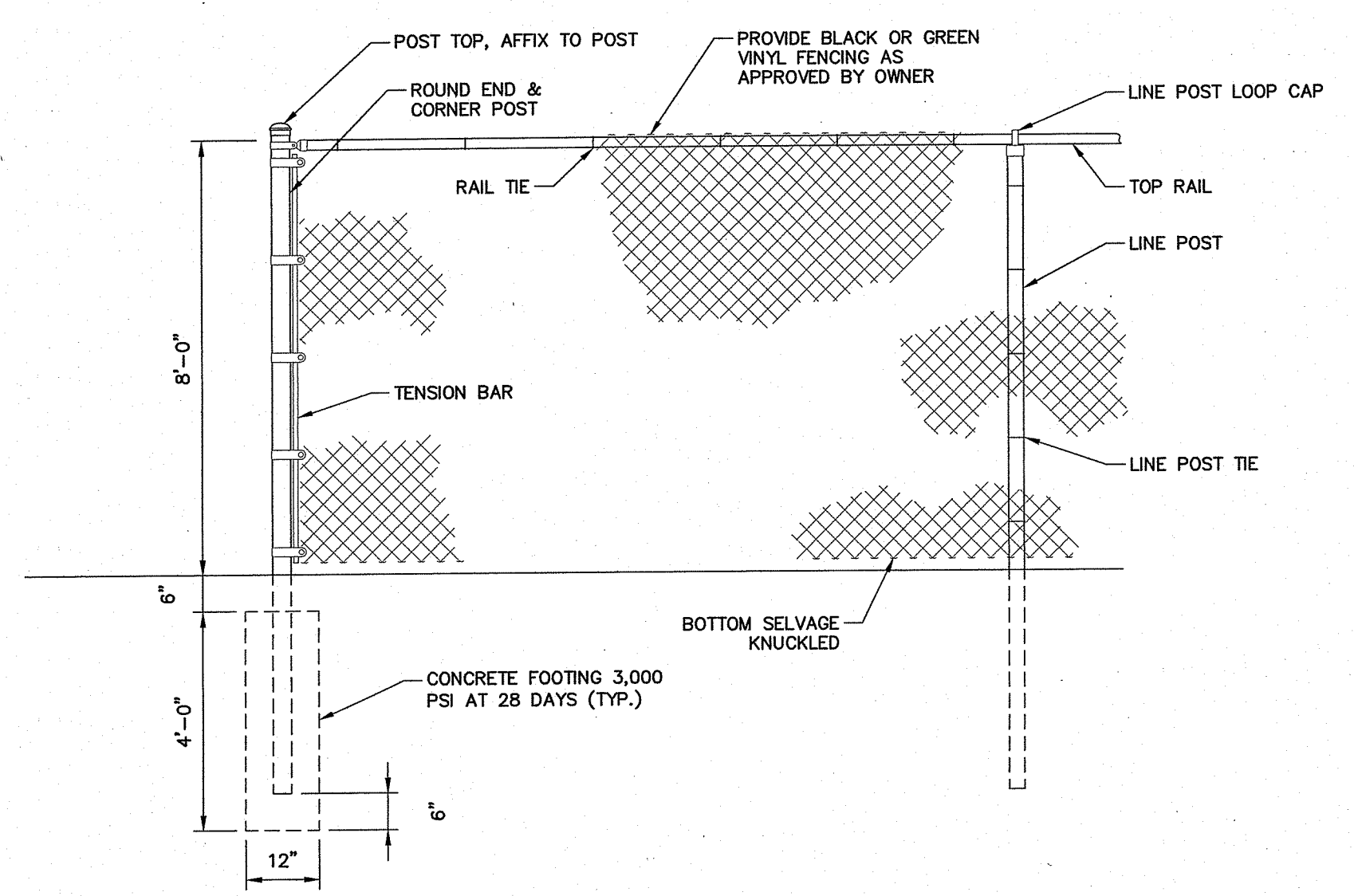
1 BITUMINOUS PAVEMENT ACCESS ROAD
SCALE: N.T.S.

B



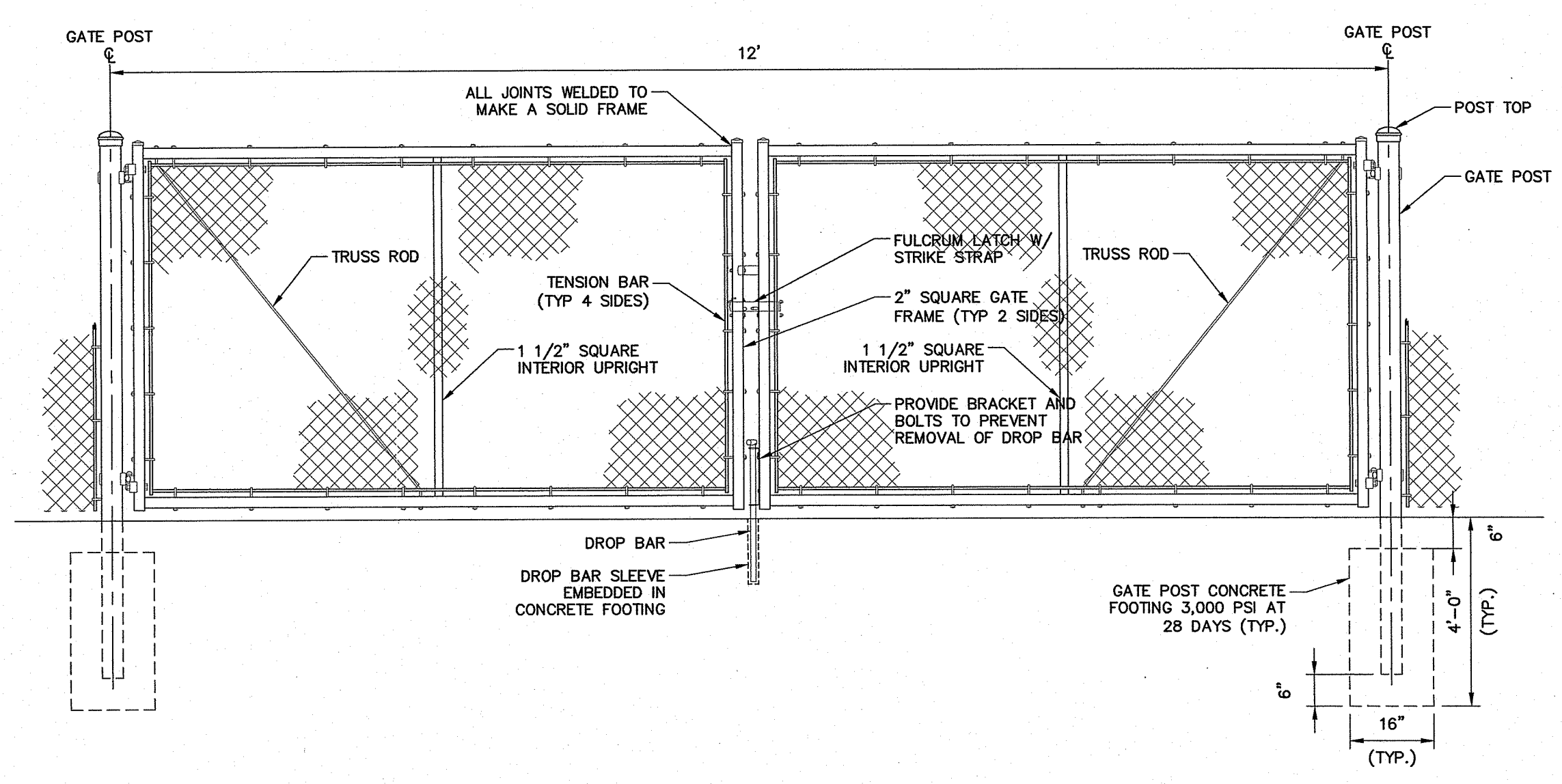
2 GRAVEL ACCESS ROAD
SCALE: N.T.S.

C



4 CHAIN LINK FENCE
SCALE: N.T.S.

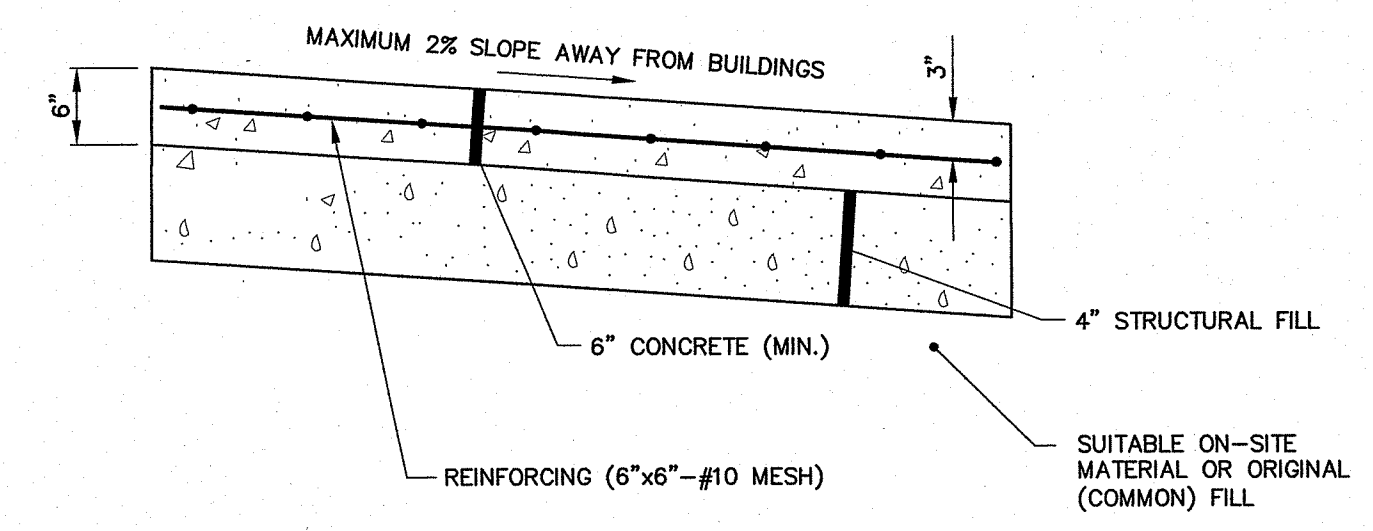
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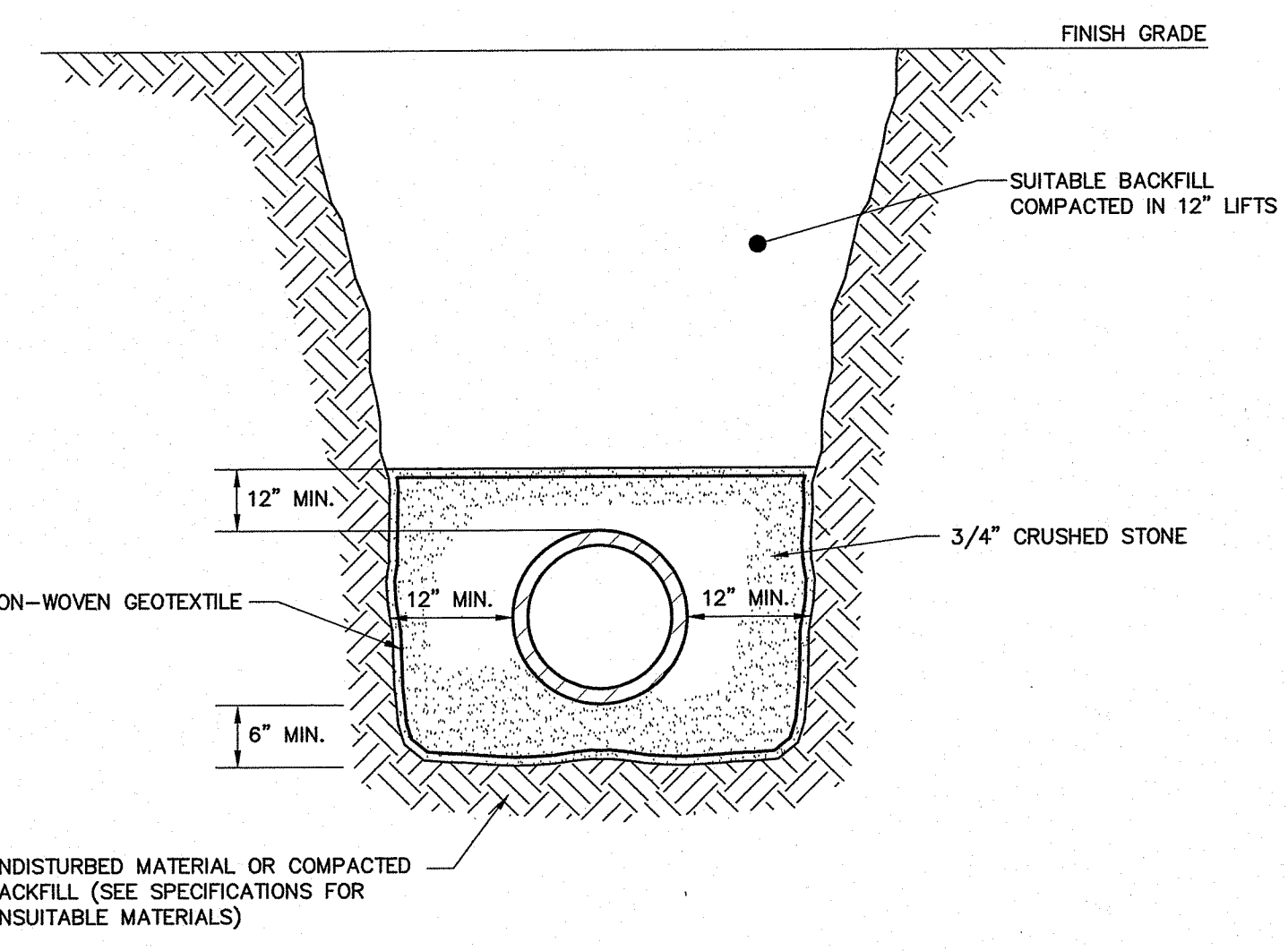
3 VEHICLE GATE
SCALE: N.T.S.

NOTES:

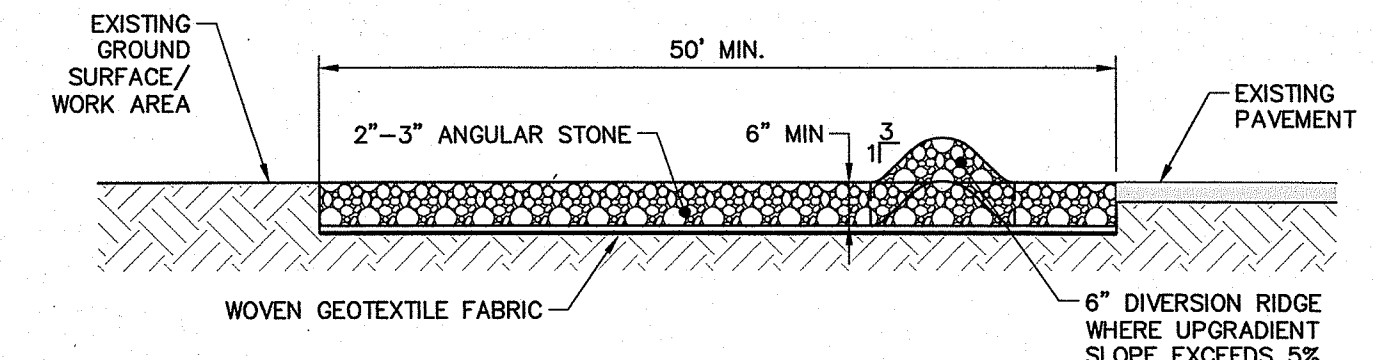
- SIDEWALK SURFACE SHALL BE BROOM FINISH.
- TOOLED CONTROL JOINTS SHALL BE LOCATED 6'-0" O.C., MAXIMUM AND EXPANSION JOINTS SHALL BE LOCATED AT CONNECTIONS TO OTHER WALKS AND STRUCTURES AND AT 72'-FEET ON CENTER.
- PROVIDE CONCRETE HARDENER AND SEALER FOR ALL SIDEWALKS. PROVIDE VEXCON CHEMICALS, INC. POWER SEAL (®) 40 OR ENGINEER APPROVED EQUAL.



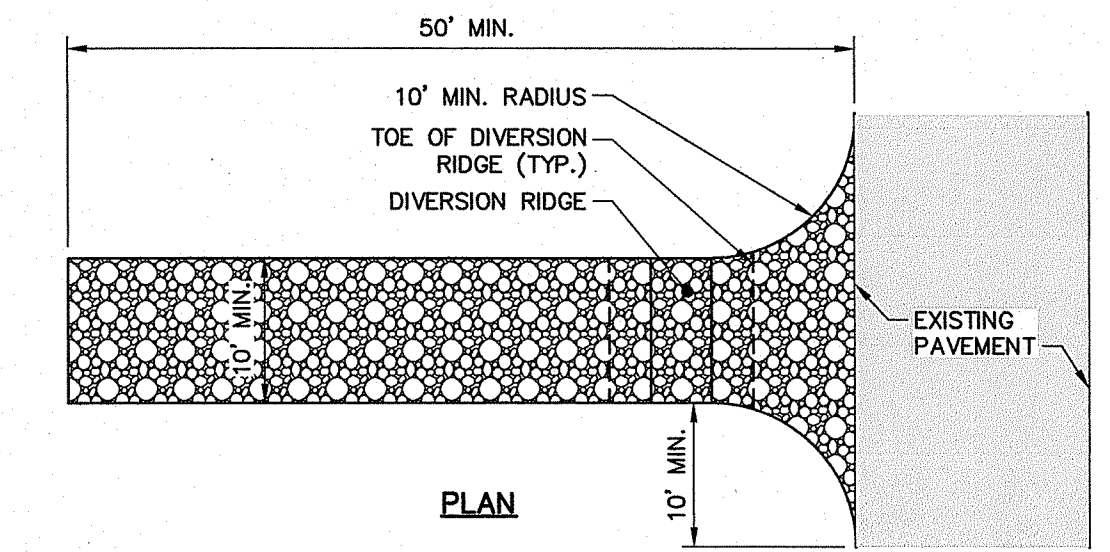
5 CONCRETE SIDEWALK
SCALE: N.T.S.



6 TYPICAL STORM DRAIN TRENCH
SCALE: N.T.S.



SECTION



PLAN

NOTES:

- GRADE TOWARDS SEDIMENT BARRIER WHEN NECESSARY TO MANAGE FLOW.

7 STABILIZED CONSTRUCTION ENTRANCE AND EXIT
SCALE: N.T.S.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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PERMITTING REVIEW SET - NOT FOR CONSTRUCTION

Environmental Management
OCT 12 2021
Office of Water Resources

33 Broad Street Floor 7
Providence, Rhode Island 02903
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ROBERT S. LITTLE
No. 10169
REGISTERED PROFESSIONAL ENGINEER
CIVIL
4/13/2021

REV	DATE	DESCRIPTION	CHECKED BY	DATE
A	10/20/21	ISSUE FOR PERMITS REVIEW	AEF	
			JDE	2/10/2021

CIVIL DETAILS 1

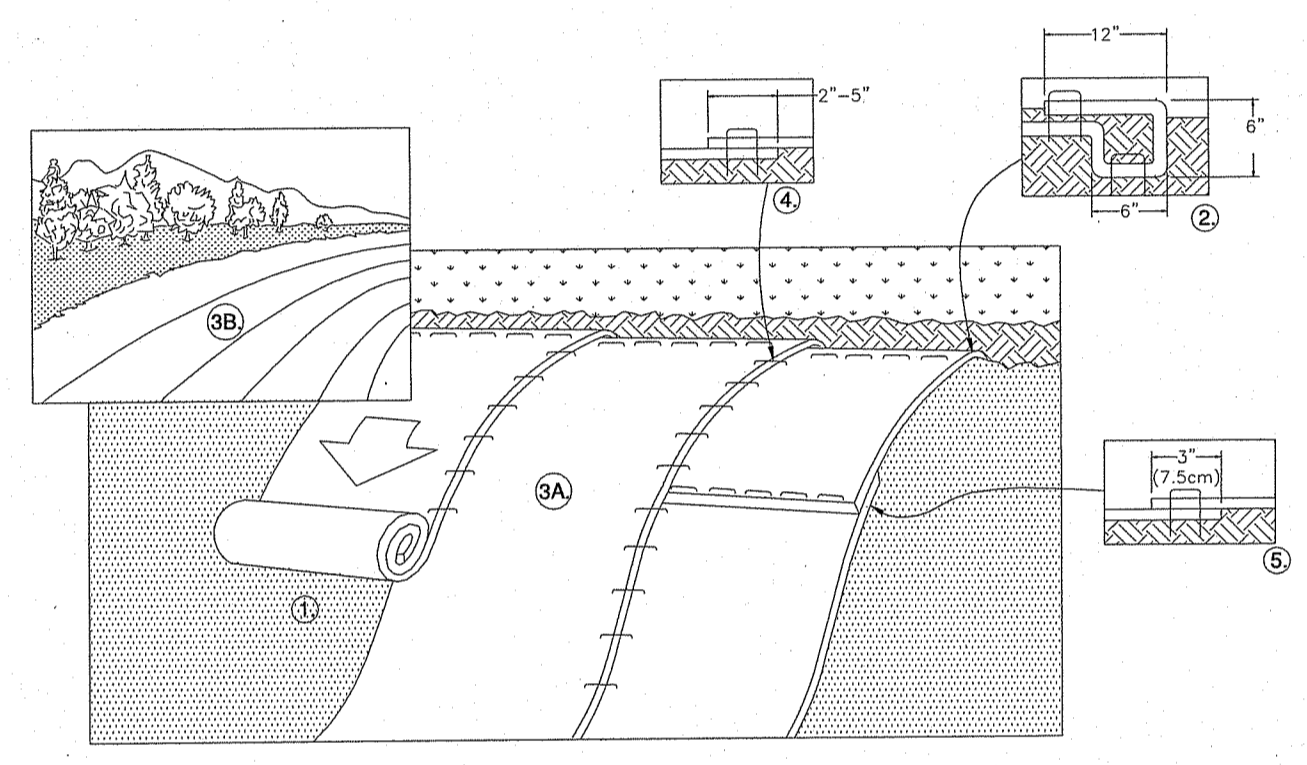
TOWN OF CUMBERLAND 16 BROAD STREET CUMBERLAND RHODE ISLAND 02864	SCHOFIELD FARM WELL FACILITY
JOB NO: 231096.10	DATE: APRIL, 2021
SCALE: AS NOTED	SHEET: 7 OF 8

C-501

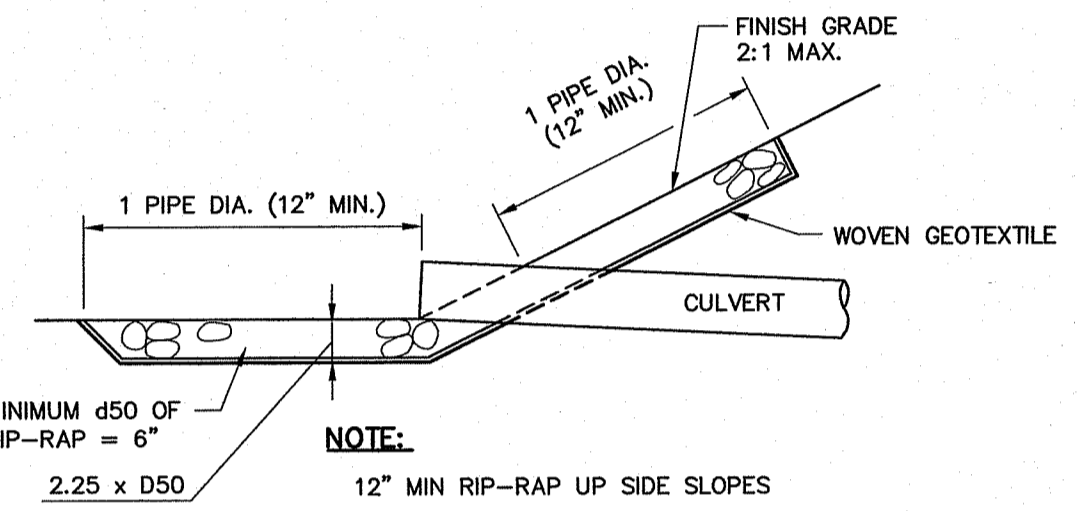
WoodardCurran.net\shared\Projects\2021\098.10 Cumberland RI Schofield Farm Addl Eng Services\Drawings\Civil\231096.10-C-501_C-502.dwg, Apr. 16, 2021 - 3:15pm, EVERETT

ROLLED EROSION CONTROL BLANKET NOTES:

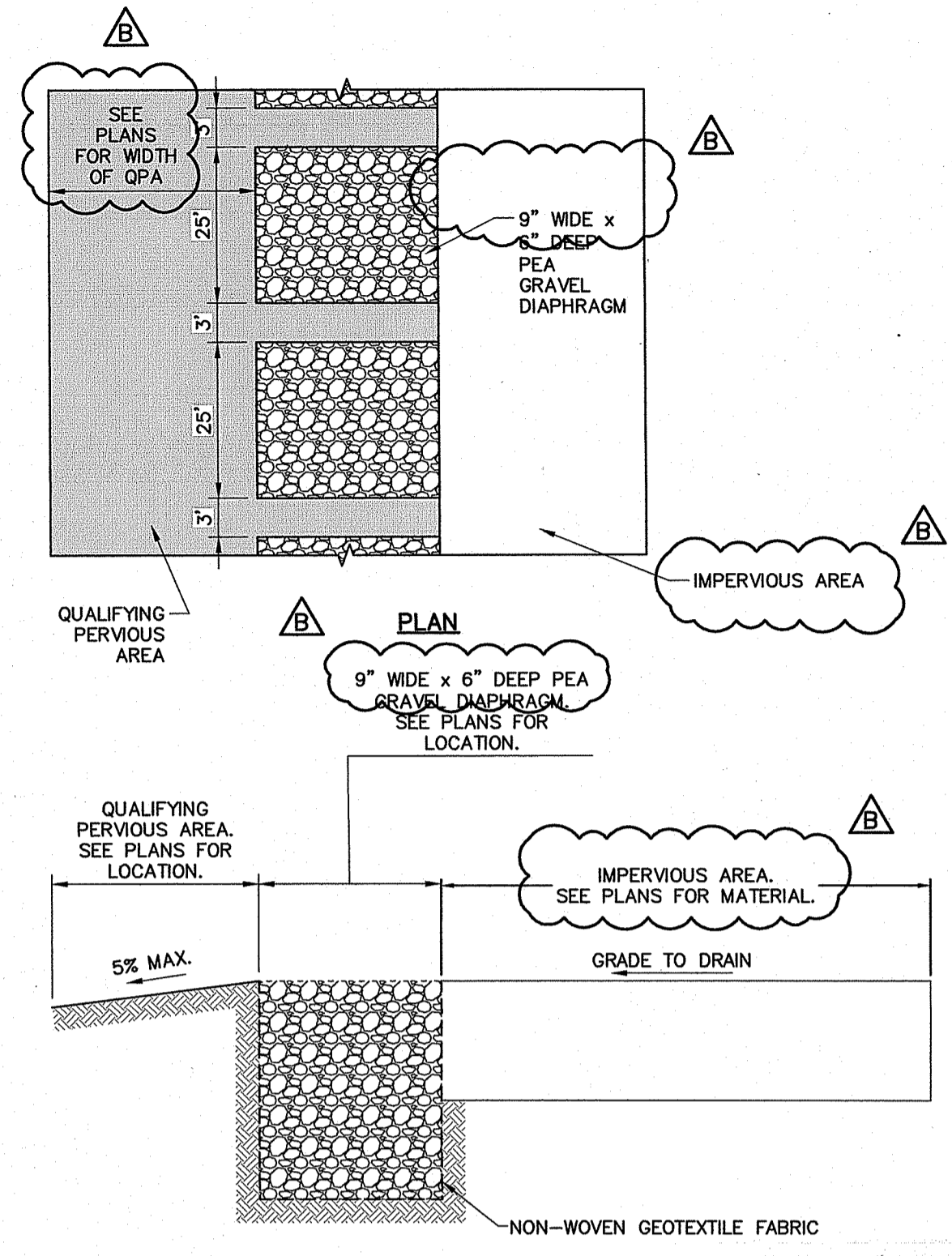
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED AS WELL AS REMOVING ANY PROTRUDING ROCKS, STUMPS OR ROOTS. DURING THE GROWING SEASON (APRIL 15- SEPTEMBER 15) USE RECP'S ON THE BASE OF GRASSED WATERWAYS, SOIL SLOPES HAVING A GRADE GREATER THAN 15% OR ANYWHERE WHERE HAY MULCH HAS PROVEN TO BE INEFFECTIVE AT CONTROLLING SHEET EROSION. RECP'S ARE A MANUFACTURED COMBINATION OF MULCH AND NETTING DESIGNED TO PREVENT EROSION AND RETAIN SOIL MOISTURE.
- FOR OVER WINTER PROTECTION, APPLY RECP'S ON THE BASE AND SIDE SLOPES OF GRASSED WATERWAYS AND ON SLOPES STEEPER THAN AN 8% GRADE.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
- ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON RECP'S TYPE.
- CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH. NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.
- UNTIL GRASS IS ABUNDANT, INSPECT PERIODICALLY AND AFTER EACH RAINSTORM TO CHECK FOR EROSION. IMMEDIATELY REPAIR AND ADD MORE MULCH UNTIL GRASSES ARE FIRMLY ESTABLISHED.
- DO NOT MOW THE FIRST YEAR.
- DETAIL SHALL BE CONSIDERED GENERAL GUIDANCE FOR RECP INSTALLATION; CONTRACTOR SHALL INSTALL RECP IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.



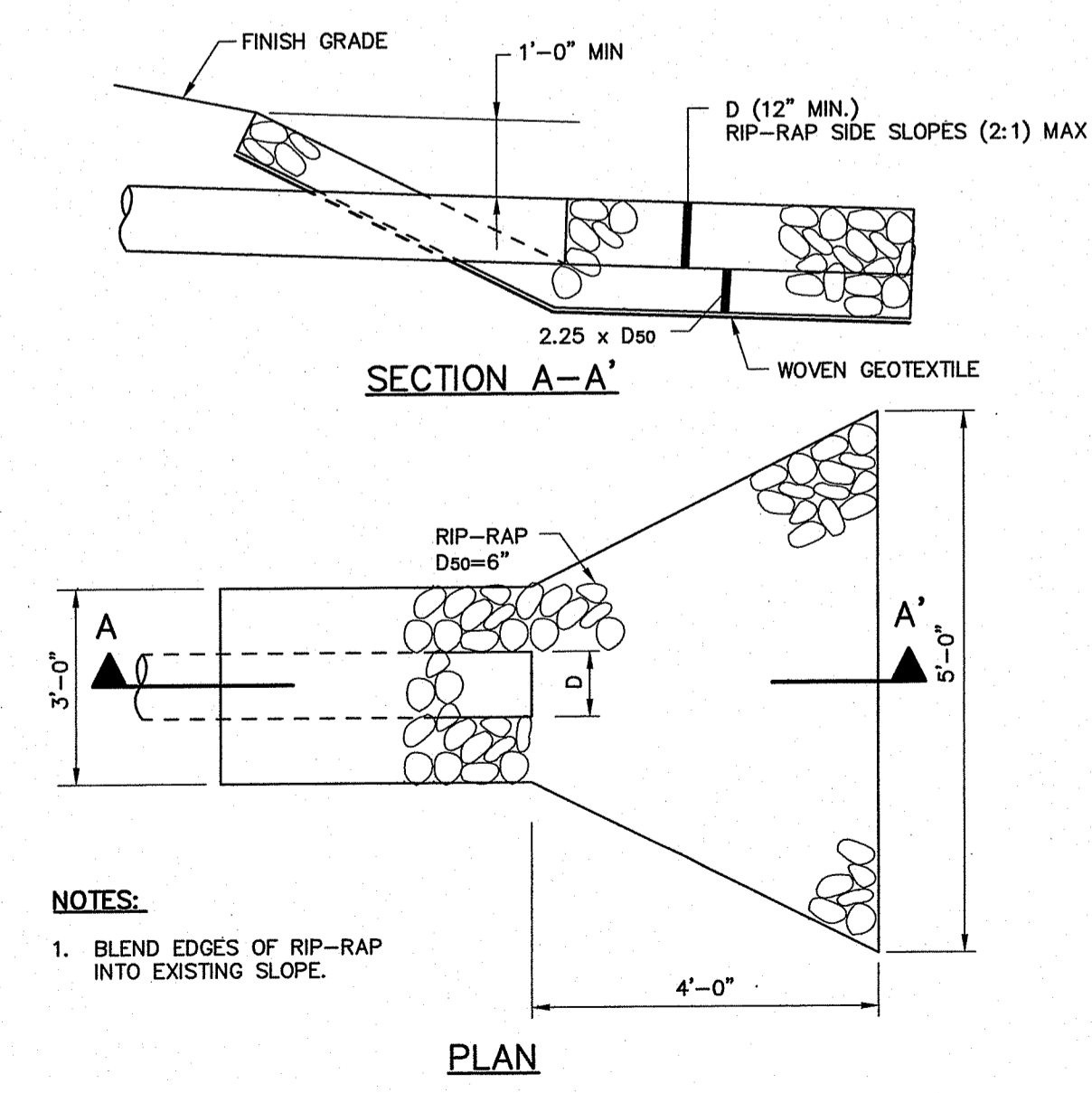
7 ROLLED EROSION CONTROL BLANKET
SCALE: N.T.S.



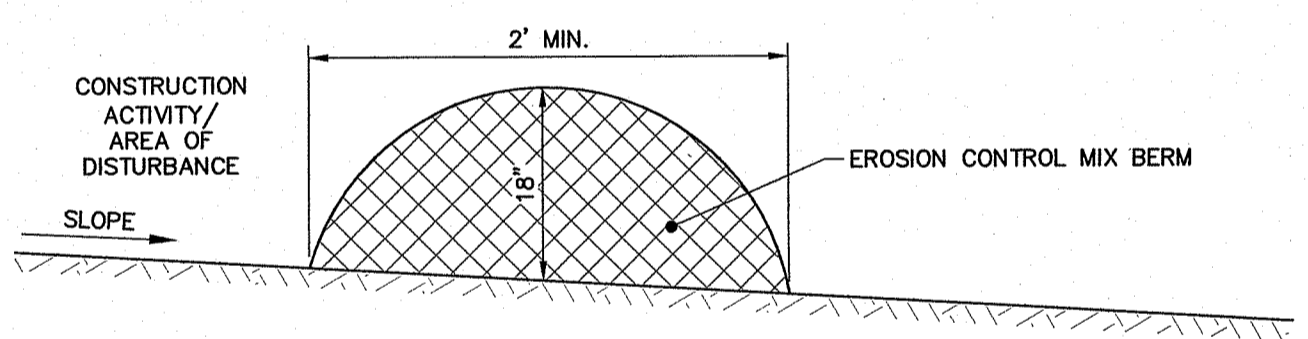
10 RIP-RAP INLET PROTECTION
SCALE: N.T.S.



11 QUALIFYING PERVIOUS AREA (QPA)
SCALE: N.T.S.

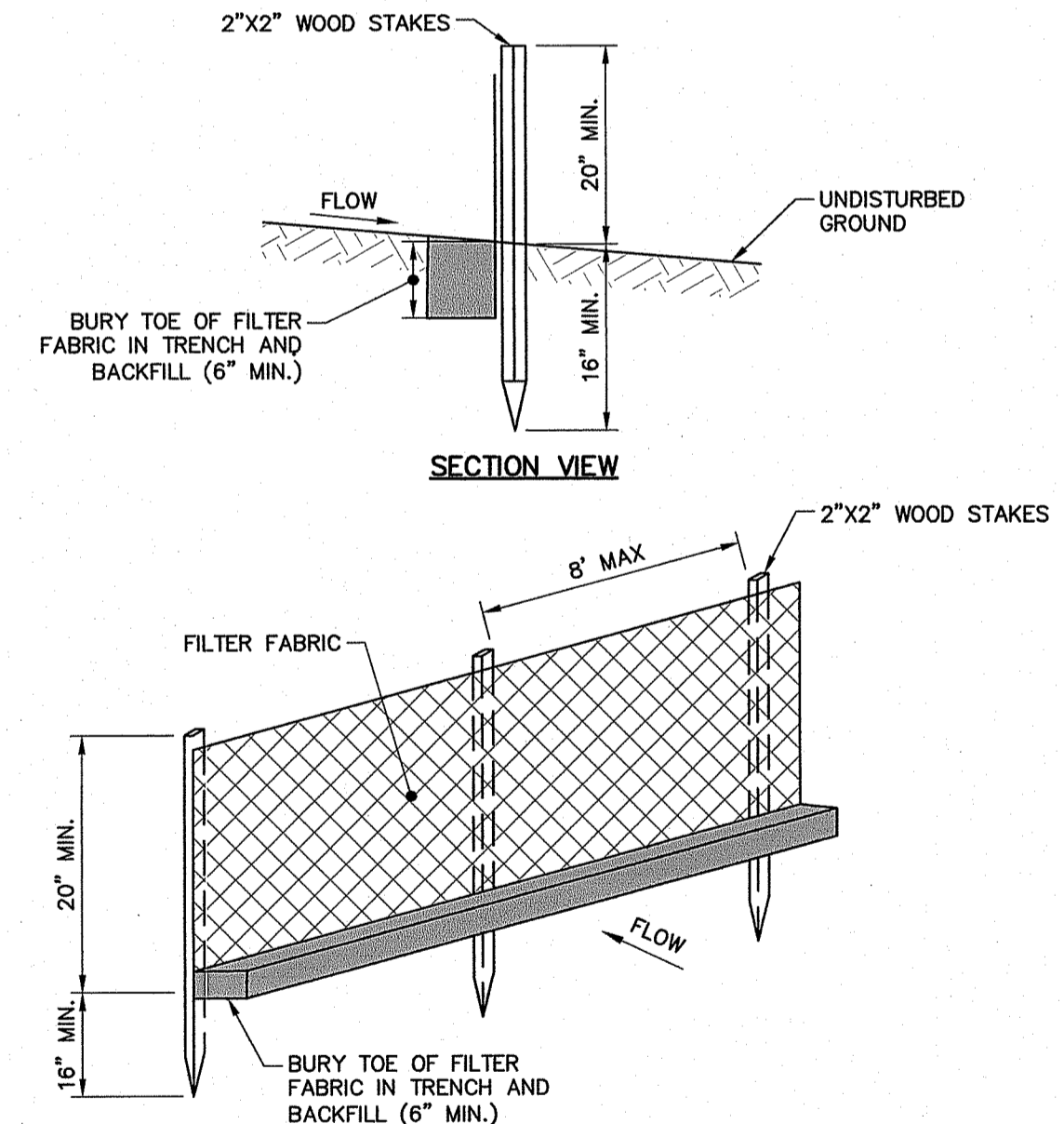


12 RIP-RAP OUTLET PROTECTION
SCALE: N.T.S.



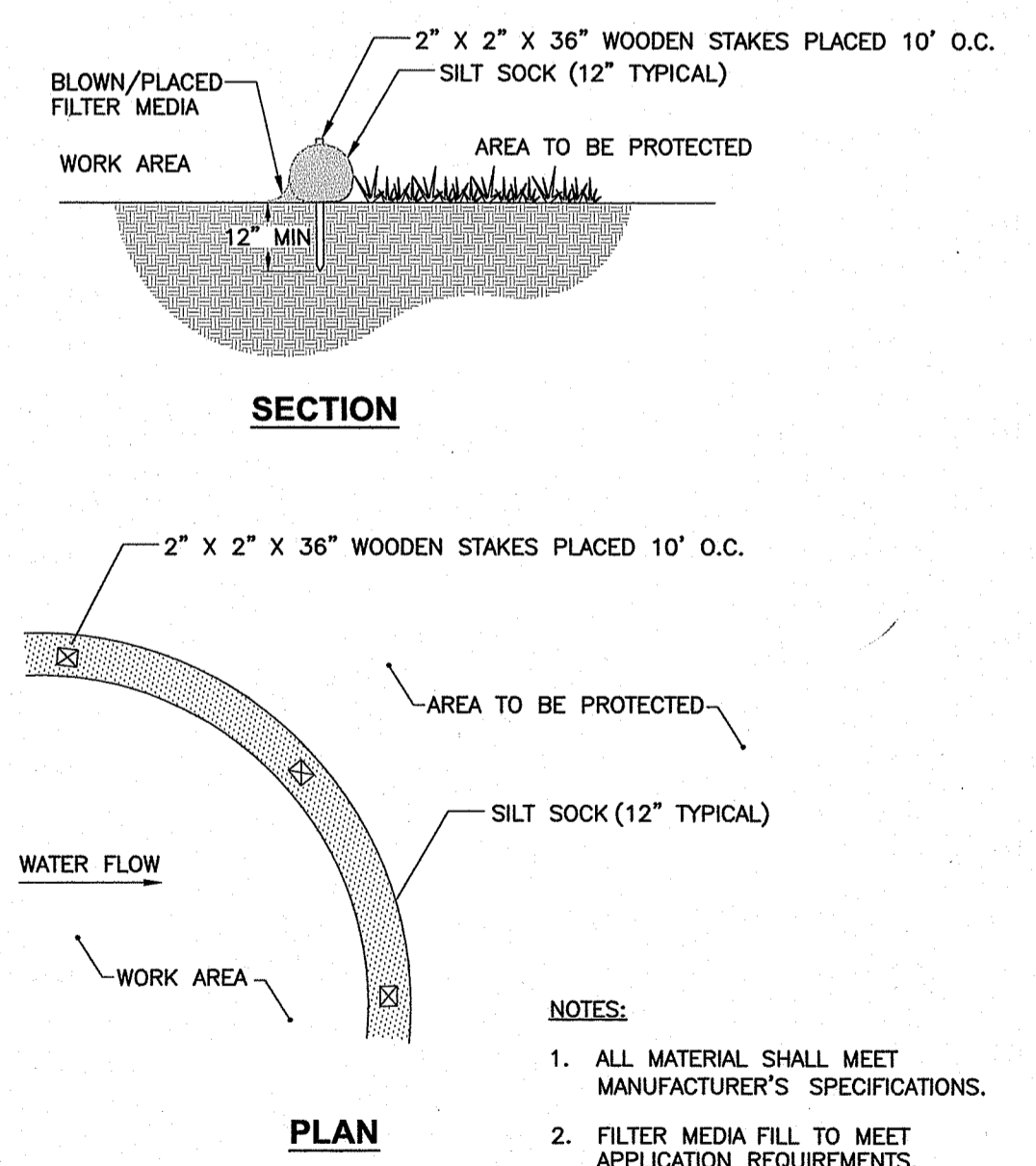
- NOTES:**
- EROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF THE PROJECT SITE. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.
 - EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:
 - THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100% DRY WEIGHT BASIS.
 - PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN AND A MINIMUM OF 70% MAXIMUM OF 85% PASSING A 0.75" SCREEN.
 - THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
 - LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
 - SOLUBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM.
 - THE PH SHOULD FALL BETWEEN 5.0 AND 8.0.

EROSION CONTROL BERM MIX



- NOTES:**
- INSTALL FABRIC ON UPHILL SIDE OF WOOD STAKES.
 - SPACING BETWEEN WOOD STAKES PER MANUFACTURER'S RECOMMENDATION.
 - SILT FENCE WILL NOT BE USED IN DRAINAGE WAYS.
 - MAINTENANCE: INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF SIX-INCHES OR MORE.
 - REMOVAL: WHEN UPSLOPE AREAS ARE STABILIZED, THE STRUCTURE AND ANY ACCUMULATED SEDIMENT WILL BE REMOVED.

13 SILTATION FENCE
SCALE: N.T.S.



- NOTES:**
- ALL MATERIAL SHALL MEET MANUFACTURER'S SPECIFICATIONS.
 - FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
 - COMPOST MATERIAL TO BE DISPERSED ON SITE, AS APPROVED BY ENGINEER

SILT SOCK SEDIMENT CONTROL

Environmental Management
Office of Water Resources
OCT 12 2021

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Providence, Rhode Island 02903
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WOODARD & CURRAN
COMMITMENT & INTEGRITY DRIVE RESULTS

ROBERT S. LITTLE
No. 10169
REGISTERED PROFESSIONAL ENGINEER
CIVIL

NO.	DESCRIPTION	DATE	CHECKED BY: RSL
B	RESPONSE TO PERMITS COMMENTS	8/27/2021	
A	ISSUE FOR PERMITS REVIEW	4/19/2021	

DESIGNED BY: AEF
DRAWN BY: JDE
231096-CA-01 (2-00) 4/19/2021

CIVIL DETAILS 2

TOWN OF CUMBERLAND
45 BROAD STREET
CUMBERLAND RHODE ISLAND 02864

SCHOTFIELD FARM WELL
FACILITY

JOB NO: 231096-10
DATE: AUGUST, 2021
SCALE: AS NOTED
SHEET: 8 OF 8

C-502