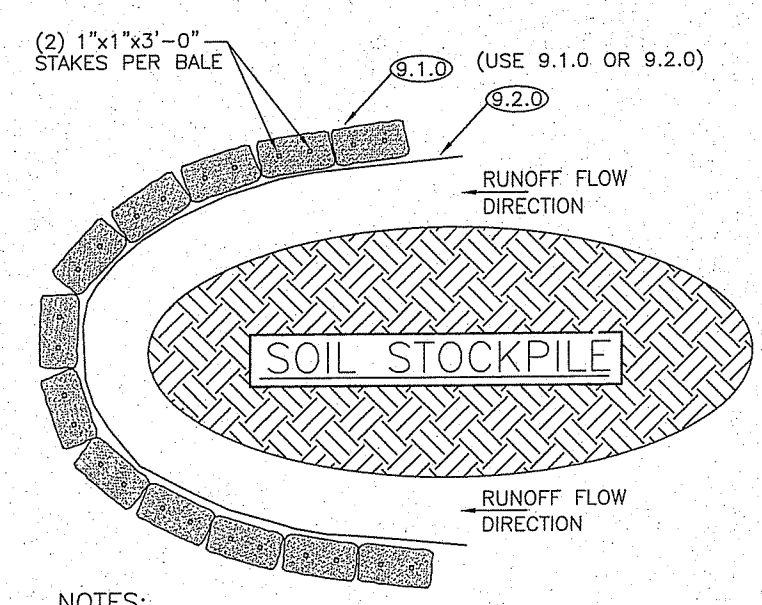


- NOTES:**
1. WETLAND EDGE DETERMINATION BY NATURAL RESOURCE SERVICES, INC. SEPTEMBER 2018. RIDEM FRESHWATER WETLANDS SECTION MODIFIED WETLAND EDGE, REFER TO APPLICATION #19-0107.
 2. SITE IS SITUATED IN AN AREA OF MINIMAL FLOOD HAZARD, ZONE X AS DEPICTED ON FEMA'S FLOOD INSURANCE RATE MAP, 4400701770, TOWN OF CUMBERLAND, 440016, EFFECTIVE DATE MARCH 2, 2009.
 3. REFERENCE IS MADE TO TOWN PLAT MAPS FOR PROPERTY LINE AND ASSESSORS PLAT AND LOT NUMBERS. THIS IS NOT A PROPERTY LINE SURVEY PLAN.
 4. REFERENCE IS MADE TO PLAN ENTITLED 'PLAN OF CUMBERLAND PARK, OWNED AND DEVELOPED BY HUB REALTY COMPANY INC., MARCH 1925'.
 5. REFERENCE IS MADE TO PLAN ENTITLED 'PROPOSED SEWER LINE FOR JCM, LLC, PLAT 37 LOTS 189 & 192, CANNING STREET, CUMBERLAND, RI, PREPARED BY PAUL GAODOUY, P.E., DATED 12-8-2004.'
 6. THIS PLAN HAS BEEN PREPARED FOR WETLAND PERMITTING ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. ONLY PLANS 'ISSUED FOR CONSTRUCTION' SHALL BE USED FOR CONSTRUCTION.

- GRADING & DRAINAGE NOTES:**
1. CONTRACTOR TO FINE GRADE LOT IN ACCORDANCE WITH STATE OF RHODE ISLAND ONE AND TWO FAMILY DWELLING CODE. LOT SHALL BE GRADED SO THAT ADDITIONAL ACCUMULATION OF SURFACE WATER DOES NOT OCCUR ACROSS ADJOINING PROPERTY. SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER POINT OF COLLECTION SO AS NOT TO CREATE A HAZARD. LOTS SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION FIRST 10 FEET. IMPERVIOUS SURFACES (DRIVEWAY) SHALL BE SLOPED AWAY FROM HOUSE AT A SLOPE OF 2% FOR AT LEAST 10 FEET.
 2. FINE GRADE SITE TO ENSURE STREET RUNOFF MAINTAINS EXISTING DRAINAGE AND DISCHARGES INTO PROPOSED SWALE. DURING THE BUILDING PERMIT STAGE OF PERMITTING, THE OWNER OF SAID PROPERTY SHALL RECORD A DRAINAGE EASEMENT TO ALLOW TOWN TO DISCHARGE STORMWATER ONTO SUBJECT PROPERTY OR APPROVED EQUAL.



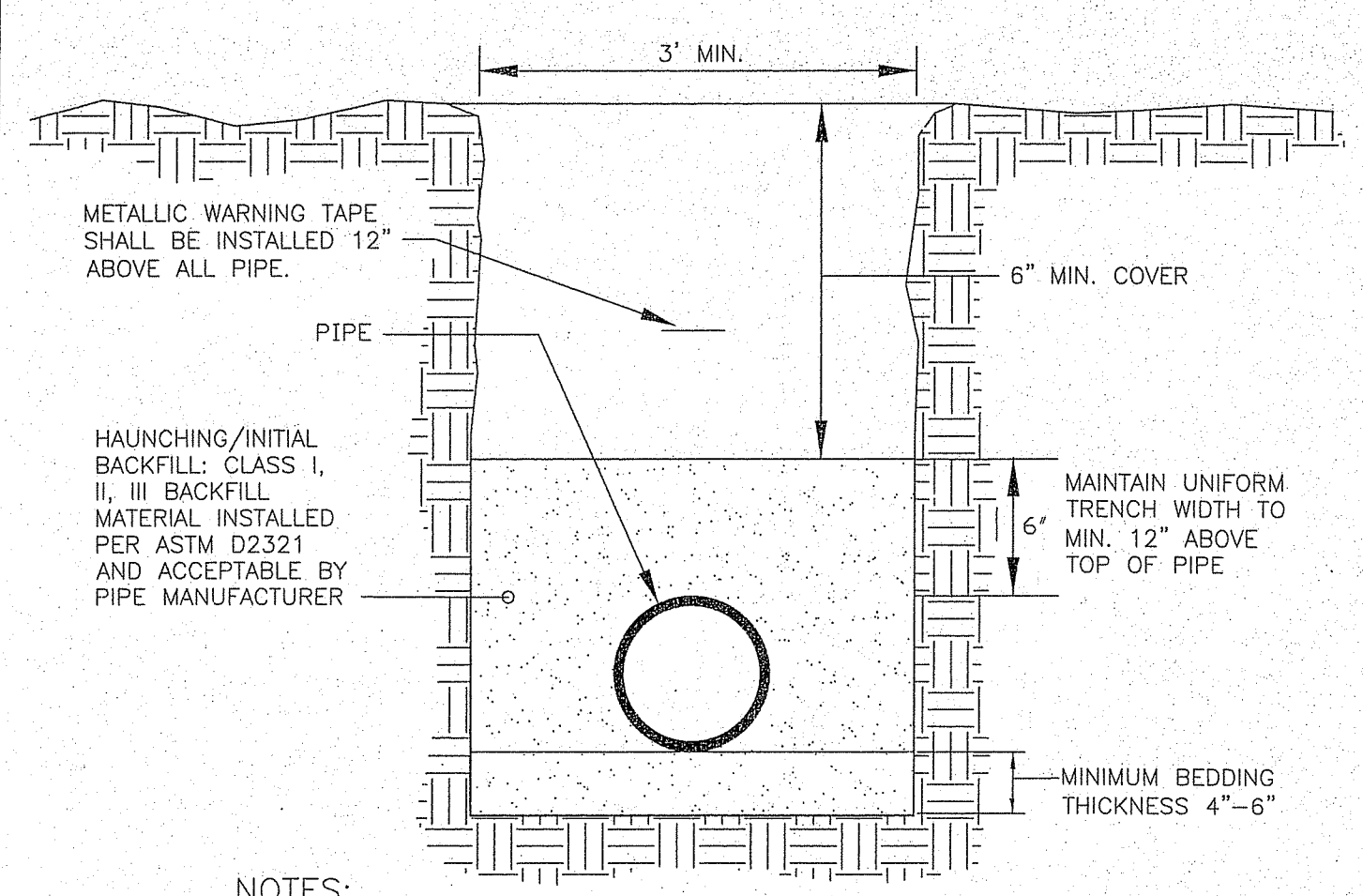
NOTES:

THE DOWNGRADIENT SIDE OF ALL STOCKPILES SHALL BE PROTECTED WITH A CONTINUOUS ROW OF SILT FENCE OR BALED HAY.

SOIL STOCKPILE AREA DETAIL WITH DOUBLE EROSION PROTECTION
(TYPICAL ALL STOCK PILES)

LEGEND

SUBJECT PROPERTY PERIMETER	—
ABUTTERS LINES	—▲—▲—▲—
FLAGGED WETLAND PERIMETER	—▲—▲—▲—
50' PERIMETER WETLAND	—80—
EX. CONTOURS	—80—
EX. EDGE OF PAVEMENT	—
EX. STONE WALL	—
EX. UTILITY POLE	—(P)—
EX. WELL	—(W)—
PERFORMED TESTHOLE	—(T)—
PRO. CONTOUR	—80—
PRO. LIMIT OF DISTURBANCE & SILT FENCE PERIMETER	—W—W—
PRO. WATER LINE	—(W)—
PRO. WELL	—(W)—
PRO. SPOT GRADE	—x115.8—
PRO. SEWER LINE	—S—S—
PRO. OVERHEAD WIRES	—(H)W—(H)W—
B.S.L.	—
EL. OR ELEV.	—
EX.	—
DHS	—
IRS	—
MAX.	—
MIN.	—
PRO.	—
R.O.W.	—
SMH	—
T.O.F.	—
TP	—
UP	—
WF	—
BUILDING SETBACK LINE	—
ELEVATION	—
EXISTING	—
DRILL HOLE SET	—
IRON ROD FOUND	—
IRON ROD SET	—
MAXIMUM	—
MINIMUM	—
PROPOSED	—
RIGHT OF WAY	—
SEWER MANHOLE	—
TOP OF FOUNDATION	—
TEST PIT	—
UTILITY POLE	—
WETLAND FLAG	—



- NOTES:**
1. CONTRACTOR TO SUBMIT BEDDING/HAUNCHING/INITIAL BACKFILL MATERIAL SHOP DRAWING TO ENGINEER FOR REVIEW AND APPROVAL.
 2. ALL PIPE BEDDING/HAUNCHING/INITIAL BACKFILL BE COMPACTED TO 95% MAXIMUM DENSITY.

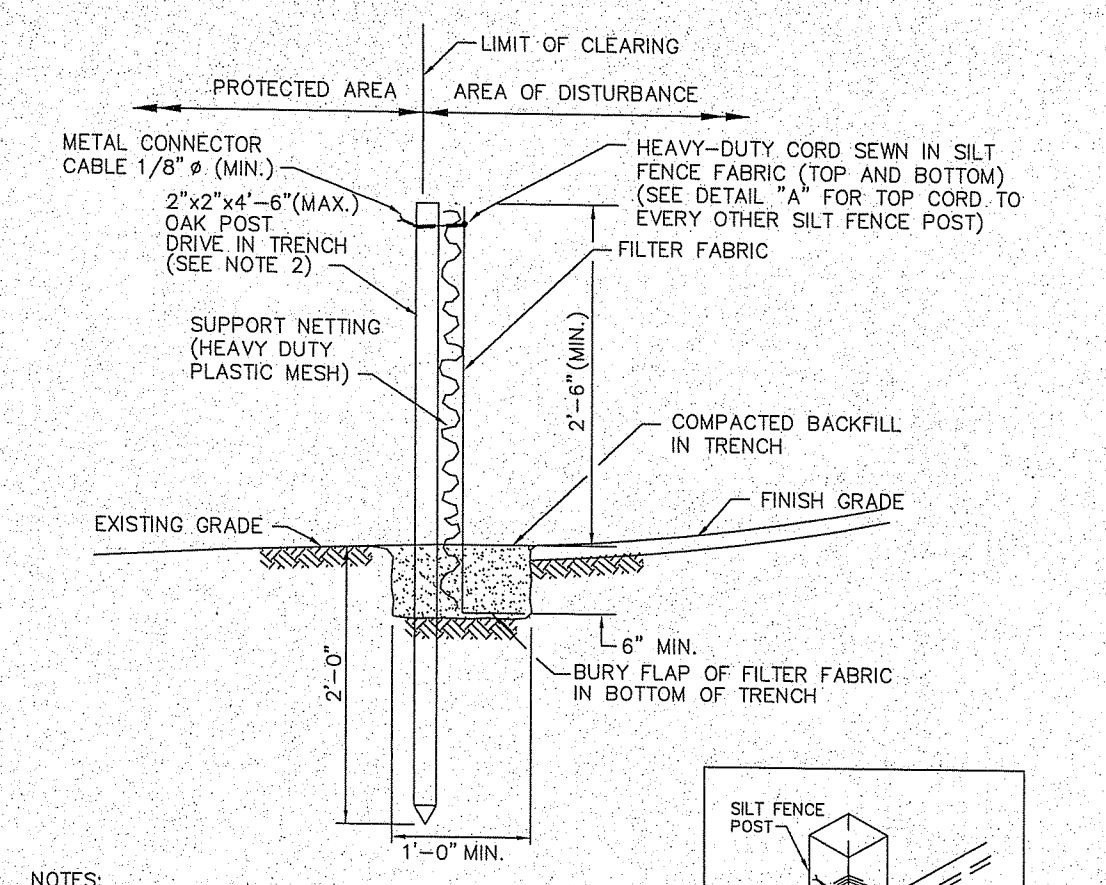
PIPE TRENCH INSTALLATION DETAIL
NOT TO SCALE

EROSION CONTROL & SOIL STABILIZATION PROGRAM:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE LOCAL SOIL EROSION AND SEDIMENT CONTROL ORDINANCES.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION 2004 EDITION AND ALL ADDENDUMS.
3. EXTREME CARE SHALL BE EXERCISED AS TO PREVENT ANY MATERIALS FROM ENTERING WETLANDS, THE ROADWAYS, ROADWAY DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES. CONTRACTOR TO INSPECT EROSION CONTROLS AND MAKE CORRECTIVE ACTIONS TO ENSURE CONTROLS ARE FUNCTIONING PROPERLY EVERY 7 DAYS AND/OR AFTER 0.25" OF RAINFALL.
4. STAKED STRAW BALES OR SILT FENCE SHALL BE INSTALLED WHERE SHOWN ON THE PLAN AND AS REQUIRED TO PREVENT SEDIMENTATION ONTO ADJACENT PROPERTIES, WETLANDS AND THE ROADWAY DRAINAGE SYSTEM.
5. DENuded SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR MORE THAN 2 WEEKS OF TIME OR FOR THE INACTIVE WINTER SEASON.
6. NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. 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. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.

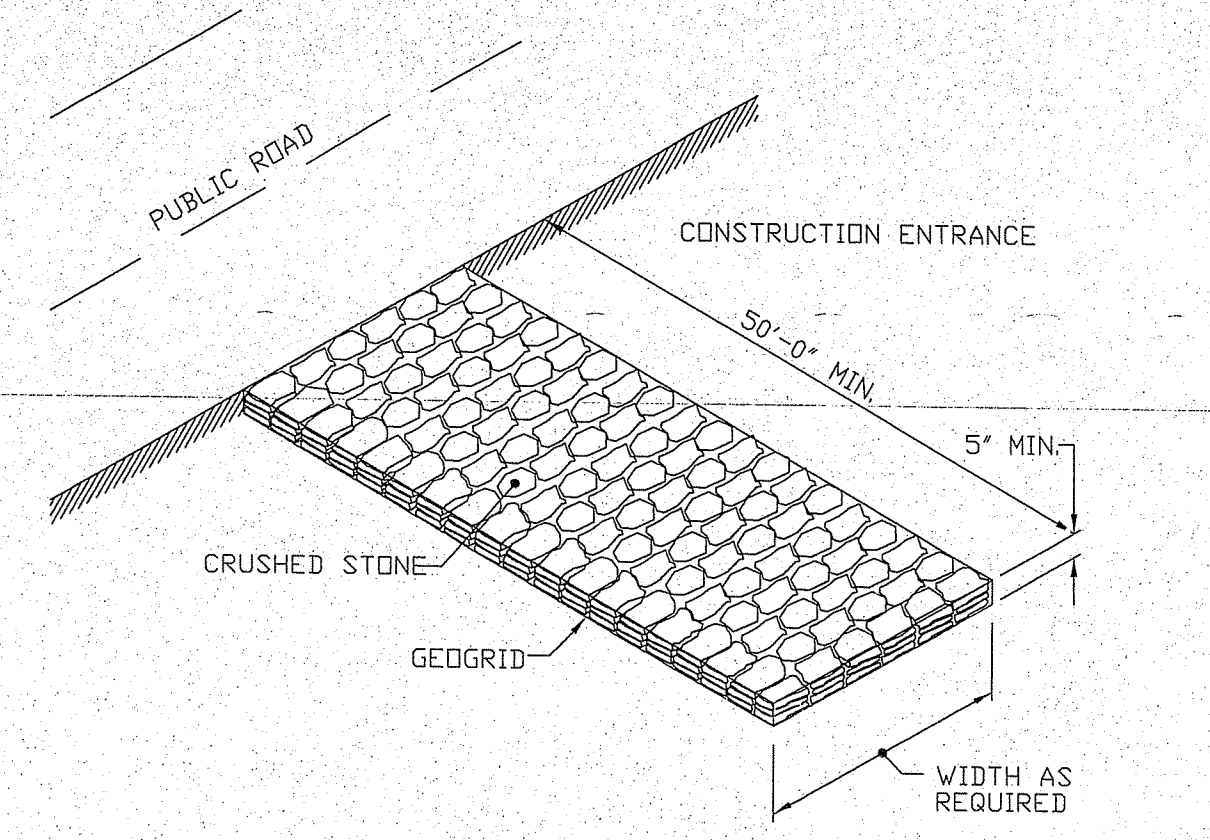
SWALE MAINTENANCE NOTES:

1. VEGETATED SWALES SHALL BE INSPECTED ANNUALLY AND AFTER LARGE STORM EVENTS.
2. ERODED SIDE SLOPES AND CHANNEL BOTTOMS SHALL BE STABILIZED AS NECESSARY.
3. IF THE SURFACE OF THE SWALE BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER THE PRECIPITATION EVENTS, THE BOTTOM SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HARD-PACKED SEDIMENT, AND THEN RESEEDED.
4. VEGETATION IN SWALES SHALL BE MOWED AS REQUIRED TO MAINTAIN MINIMUM GRASS HEIGHTS IN THE 4 TO 6 INCH RANGE.
5. EVERY FIVE YEARS, THAN CHANNEL BOTTOM OF SWALES SHOULD BE SCRAPED TO REMOVE SEDIMENT AND TO ENSURE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SHOULD BE SEEDED TO RESTORE GROUND COVER, WHERE NECESSARY.



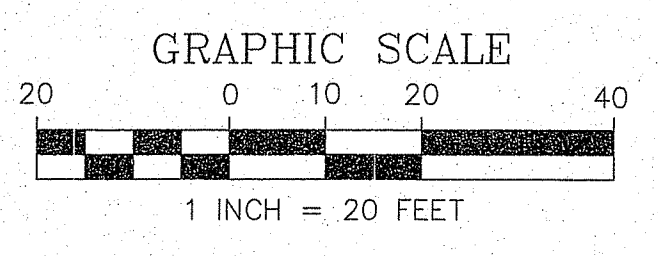
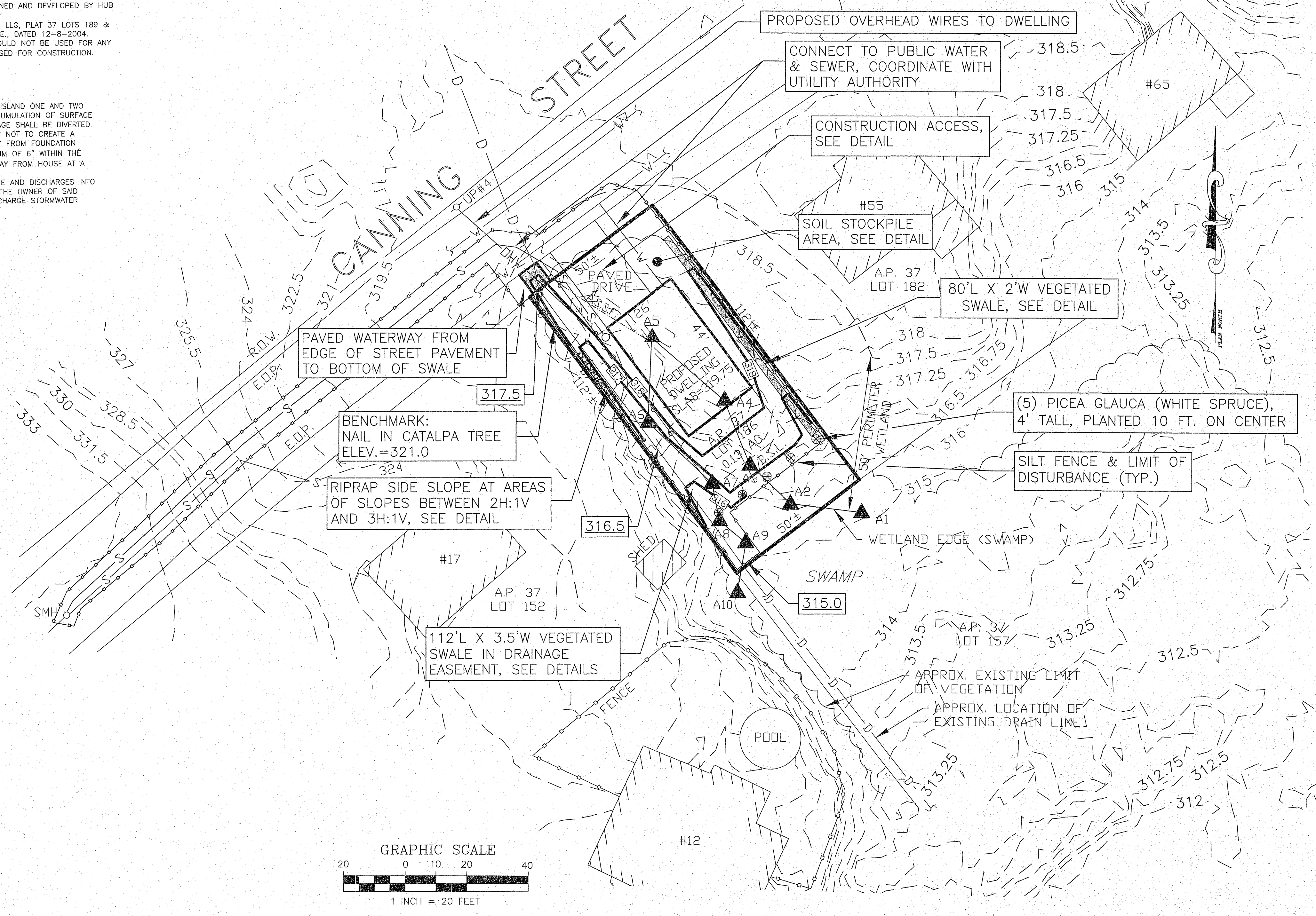
- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 2. 2"x2"x4'-6" (MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

SILT FENCE DETAIL
R.I. STANDARD 9.2.0



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

CONSTRUCTION ACCESS
R.I. STANDARD 9.9.0



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 03 2021 FILE # 20-0354
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Jencel

Environmental Management
MAR 25 2021
Office of Water Resources

TIMOTHY J. BEHAN
No. 6278
REGISTERED PROFESSIONAL ENGINEER

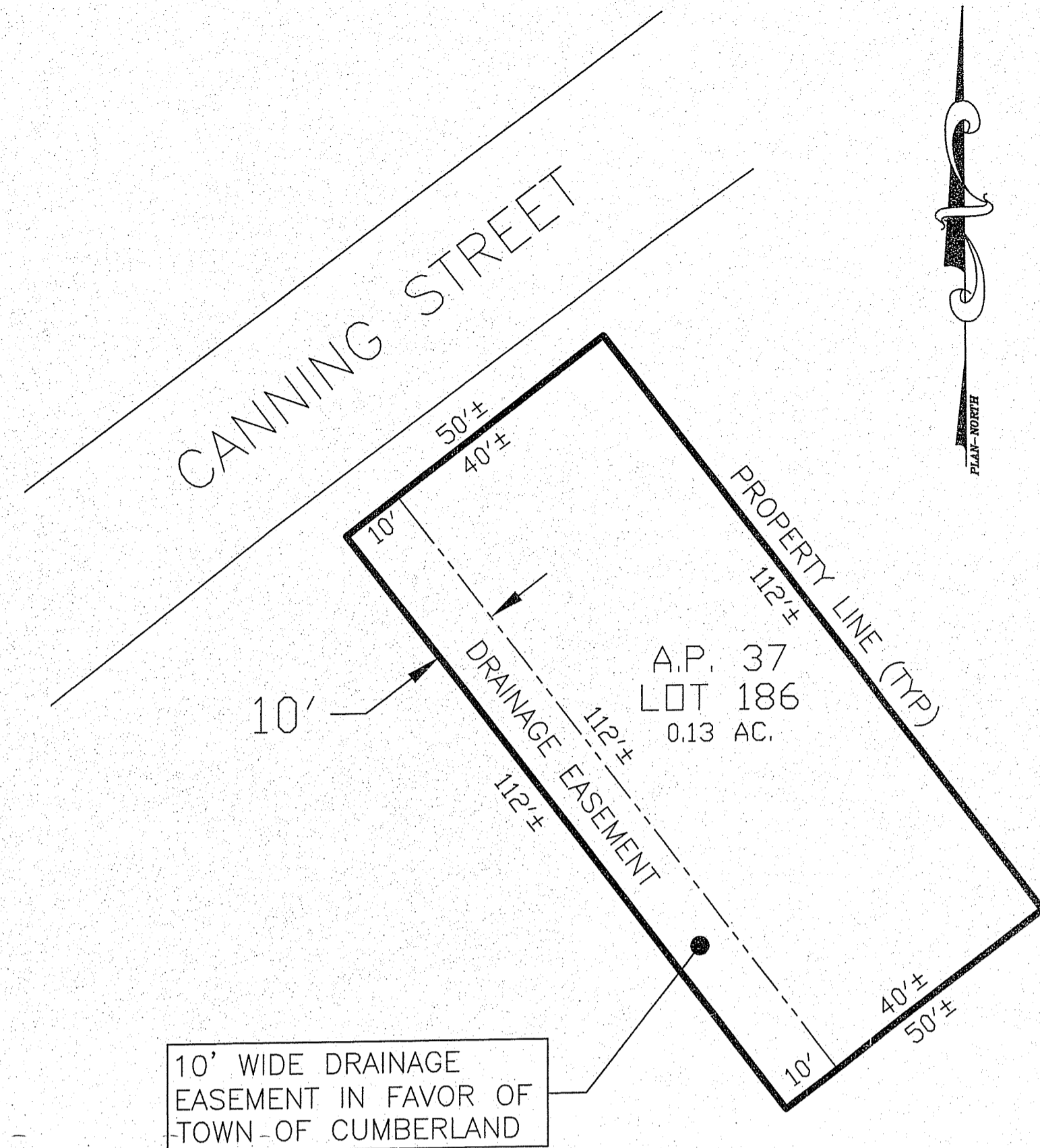
COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908
401-273-8600

REVISIONS

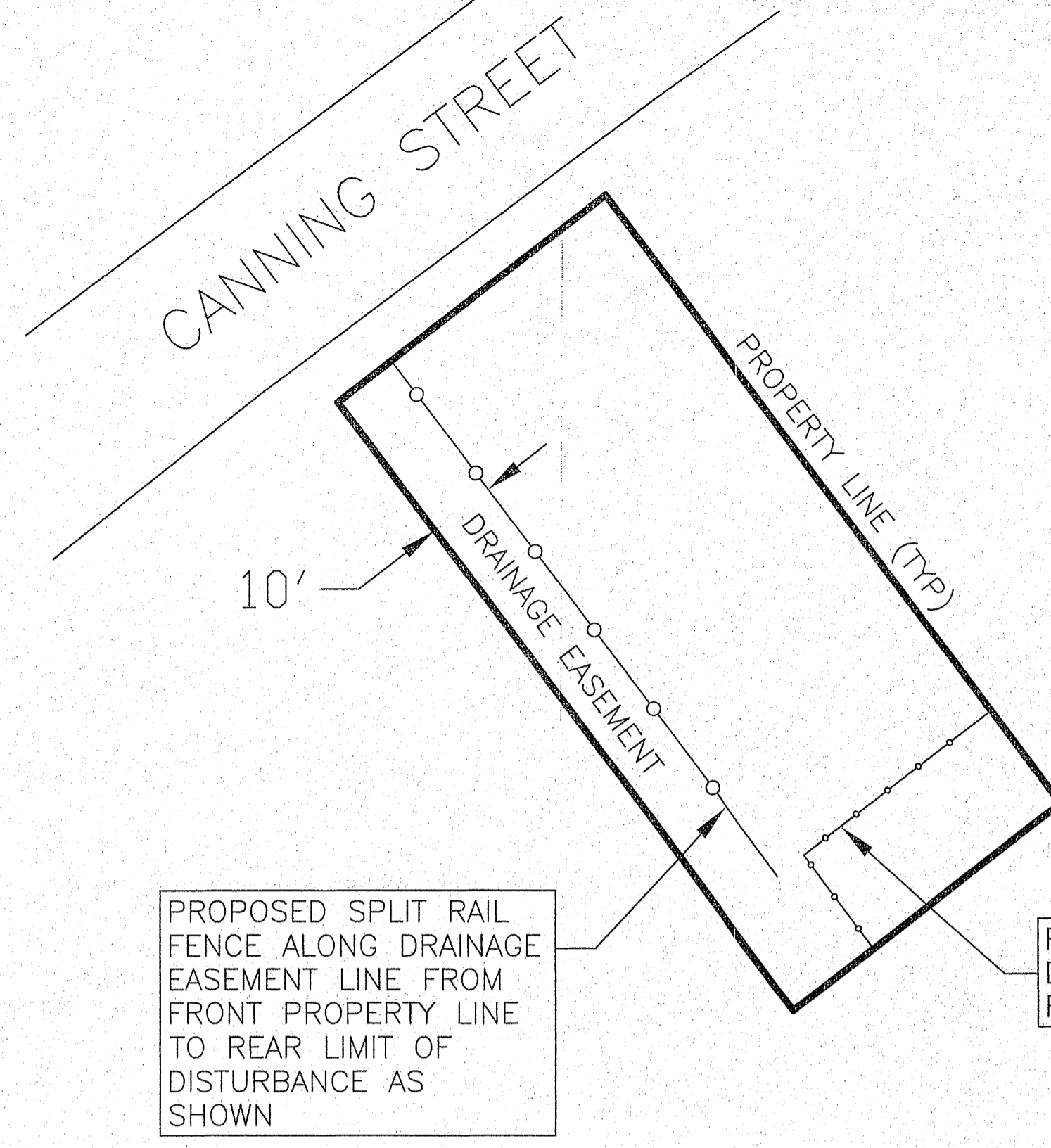
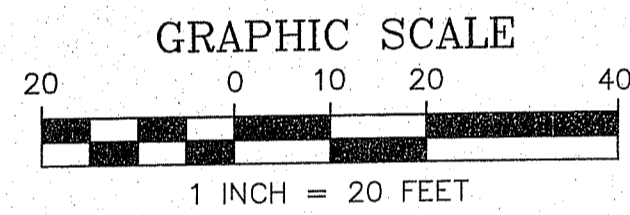
No.	DATE	DRWN	CHKD
1	3-24-21	TB	TB

FRESHWATER WETLAND PERMIT APPLICATION
for
PROPOSED DWELLING
45 CANNING STREET
A.P. 37 LOT 186
in
CUMBERLAND, RHODE ISLAND
Dated Aug. 24, 2020 & received by this Program on
Nov. 4, 2020

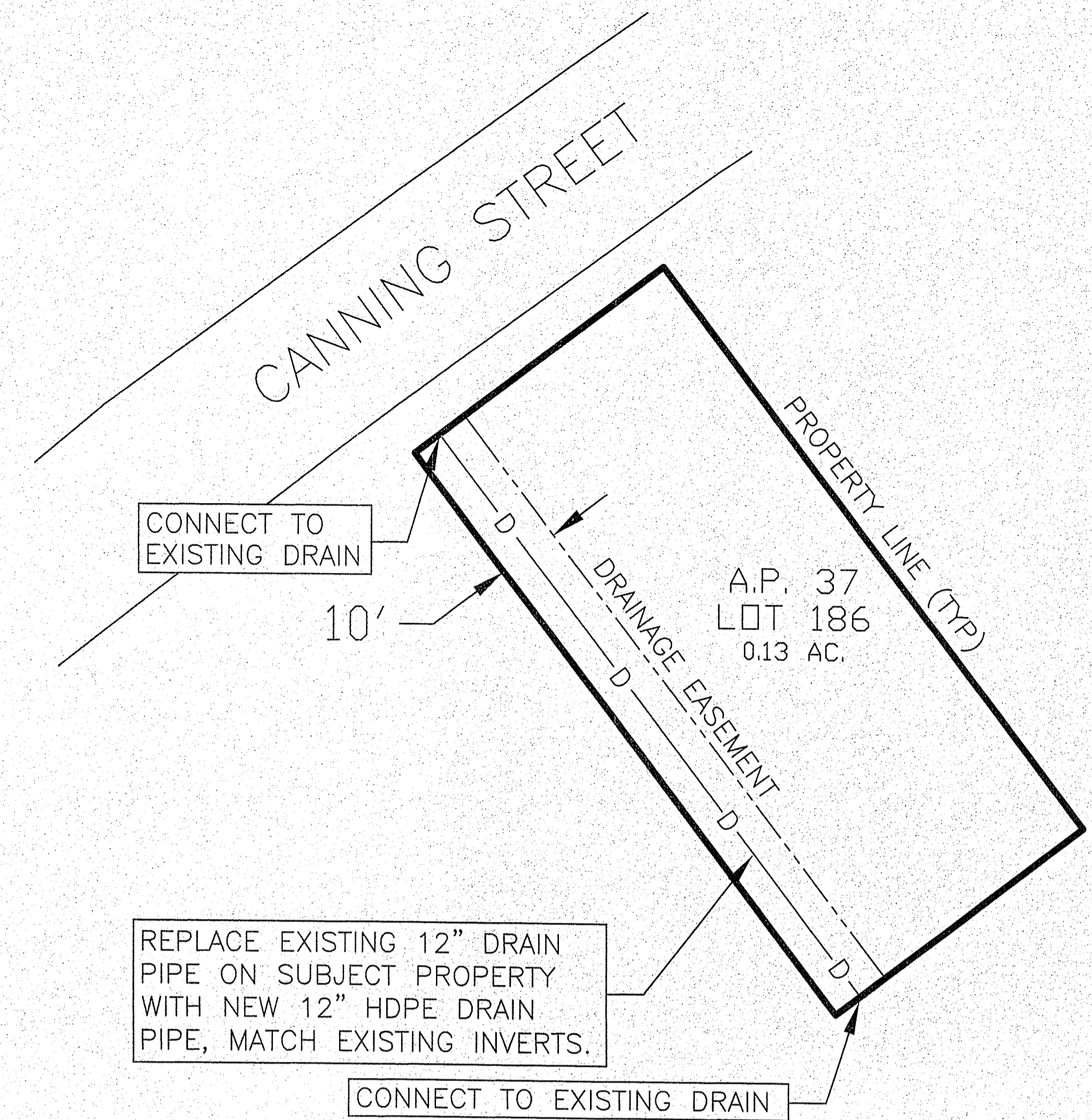
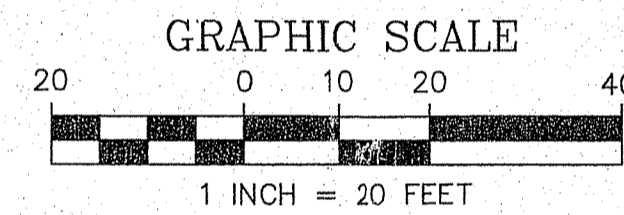
SCALE: AS SHOWN SHEET NO: 1 of 2
DRAWN BY: TB DESIGN BY: TB CHECKED BY: TB
DATE: 8/24/20 PROJECT NO.: 16056.00



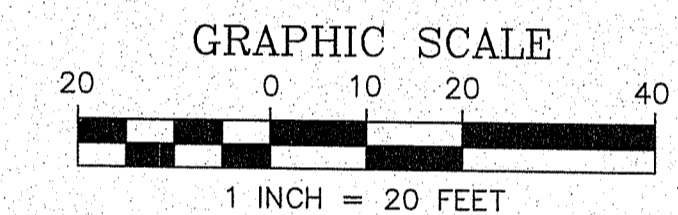
PROPOSED DRAINAGE EASEMENT DETAIL
SCALE: 1"=20'



PROPOSED SPLIT RAIL FENCE LOCATION DETAIL
SCALE: 1"=20'



PROPOSED DRAIN PIPE REPLACEMENT LOCATION DETAIL
SCALE: 1"=20'



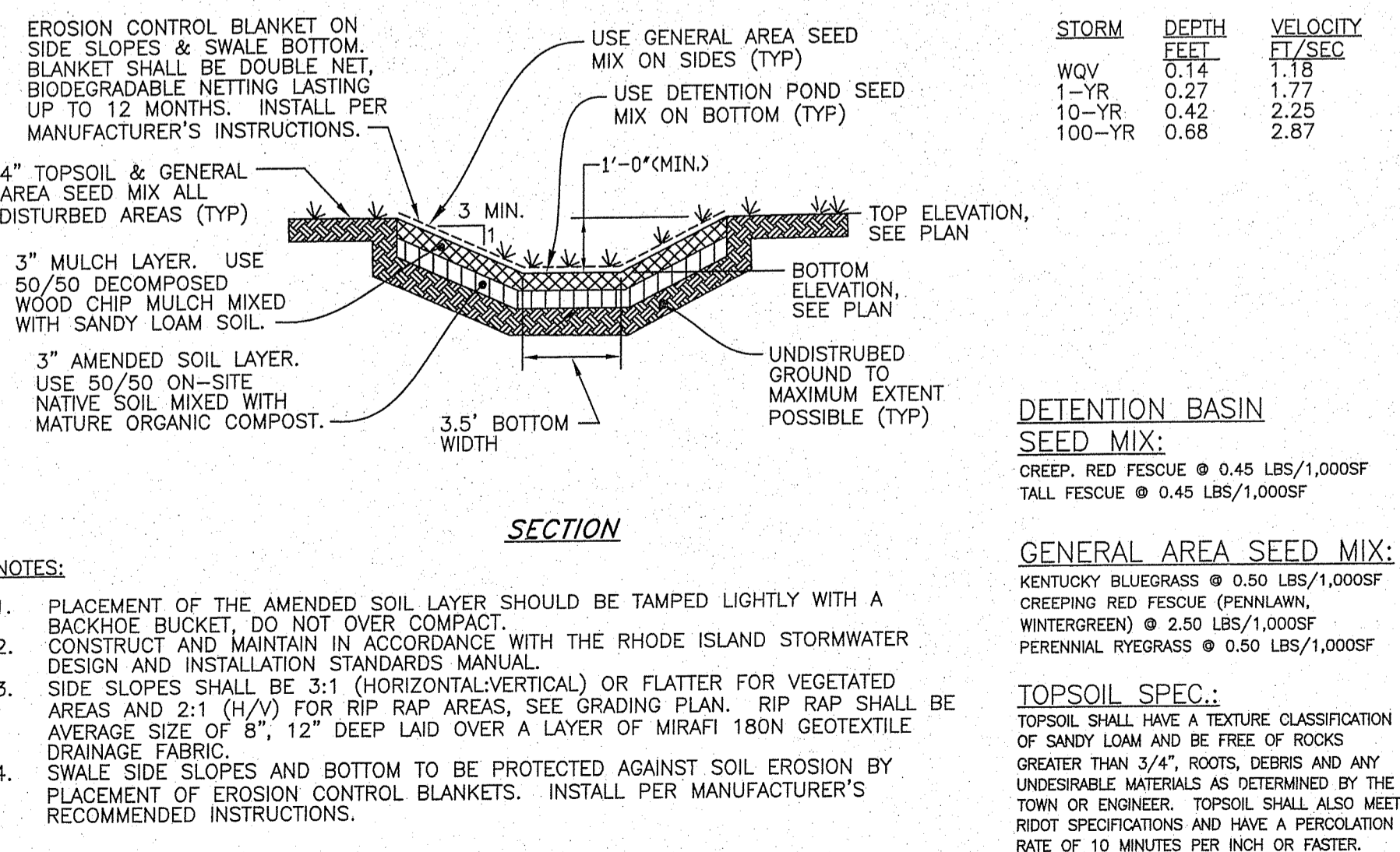
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 03 2021 FILE # 20-0254
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Matthew D. Semek

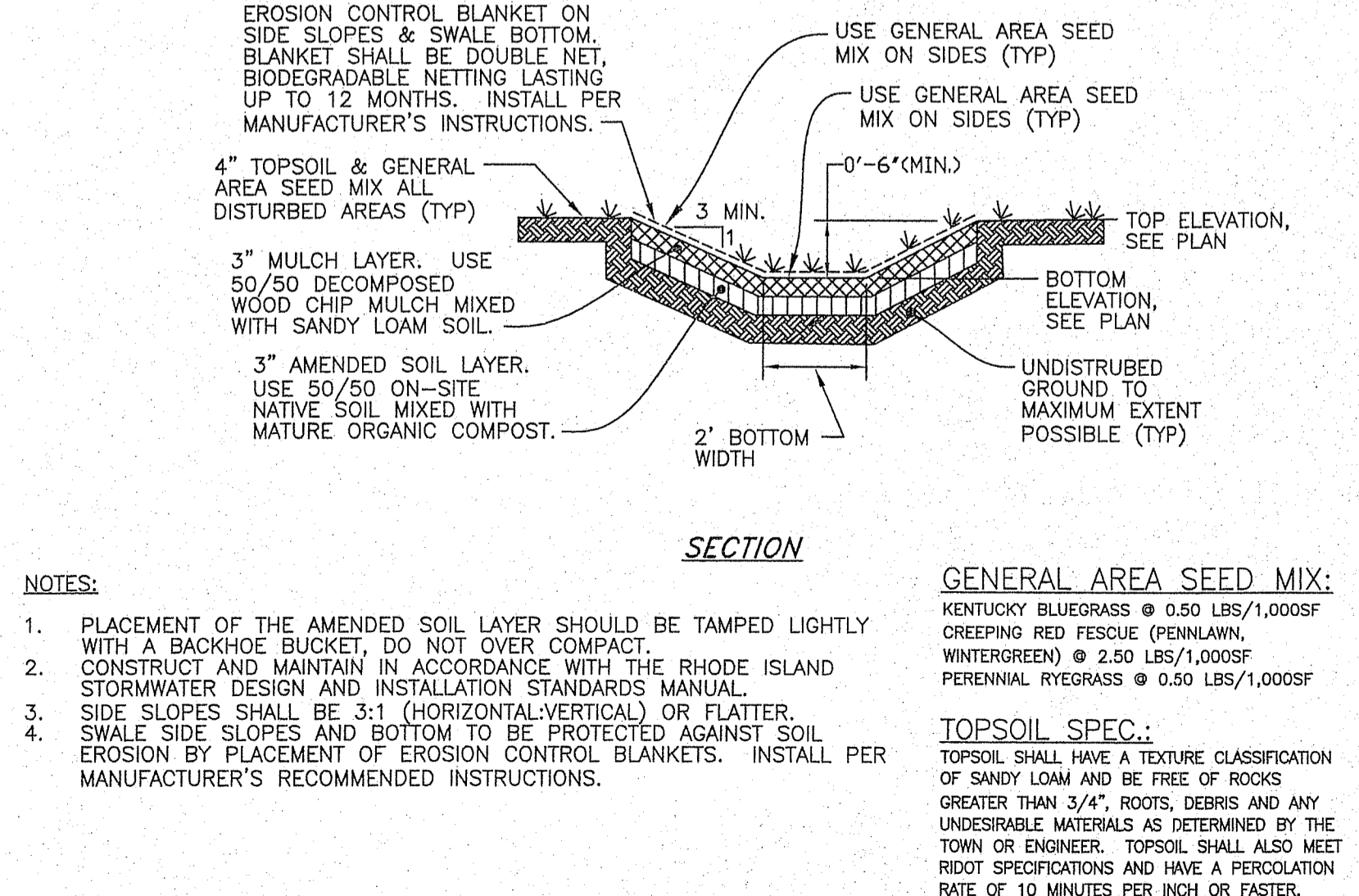
Environmental Management
MAR 25 2021
Office of Water Resources

DRAWING ISSUE:

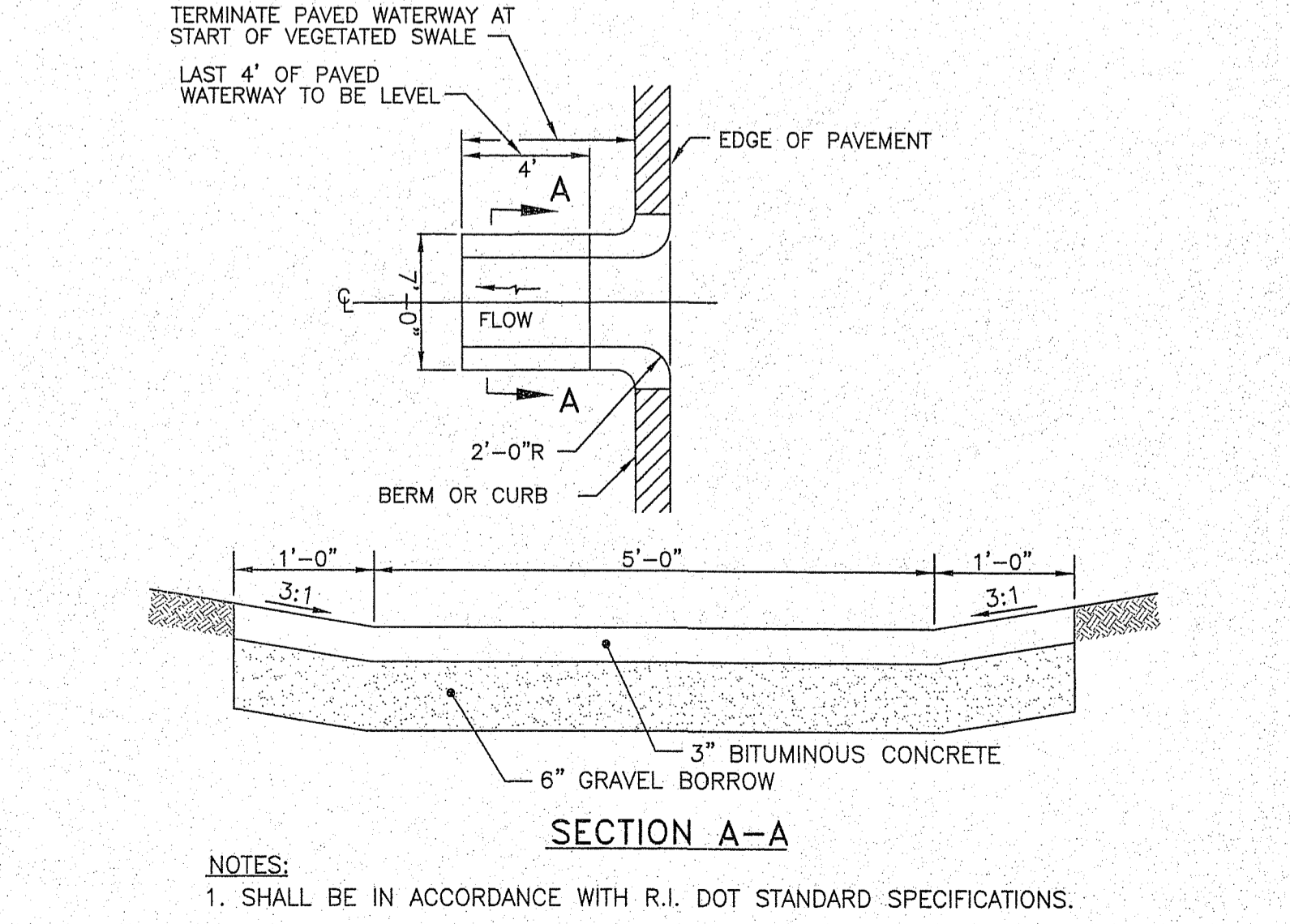
- CONCEPT
 - CUSTOMER APPROVAL
 - PERMITTING
 - CONSTRUCTION
 - AS-BUILT
 - OTHER:
- ONLY PLANS ISSUED FOR CONSTRUCTION
SHALL BE USED FOR CONSTRUCTION



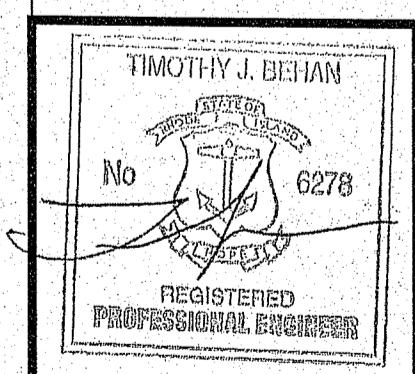
112' L x 3.5' W VEGETATED SWALE IN DRAINAGE EASEMENT DETAIL
NOT TO SCALE



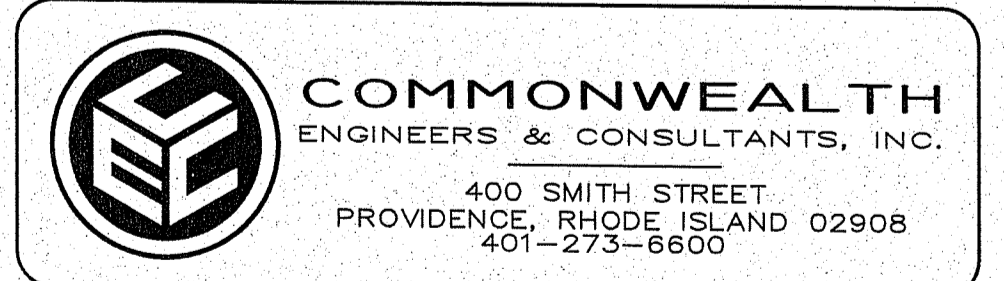
80' L x 2' W VEGETATED SWALE DETAIL
NOT TO SCALE



PAVED WATERWAY DETAIL
NOT TO SCALE



REVISIONS			
No.	DATE	DRWN	CHKD
1	3-24-21	TB	TB



FRESHWATER WETLAND PERMIT APPLICATION
for
PROPOSED DWELLING
45 CANNING STREET
A.P. 37 LOT 186
in
CUMBERLAND, RHODE ISLAND
Dated Aug. 24, 2020 & received by this Program on
Nov. 4, 2020

SCALE: AS SHOWN SHEET NO: 2 of 2
DRAWN BY: TB DESIGN BY: TB CHECKED BY: TB
DATE: 8/24/20 PROJECT NO.: 16056.00