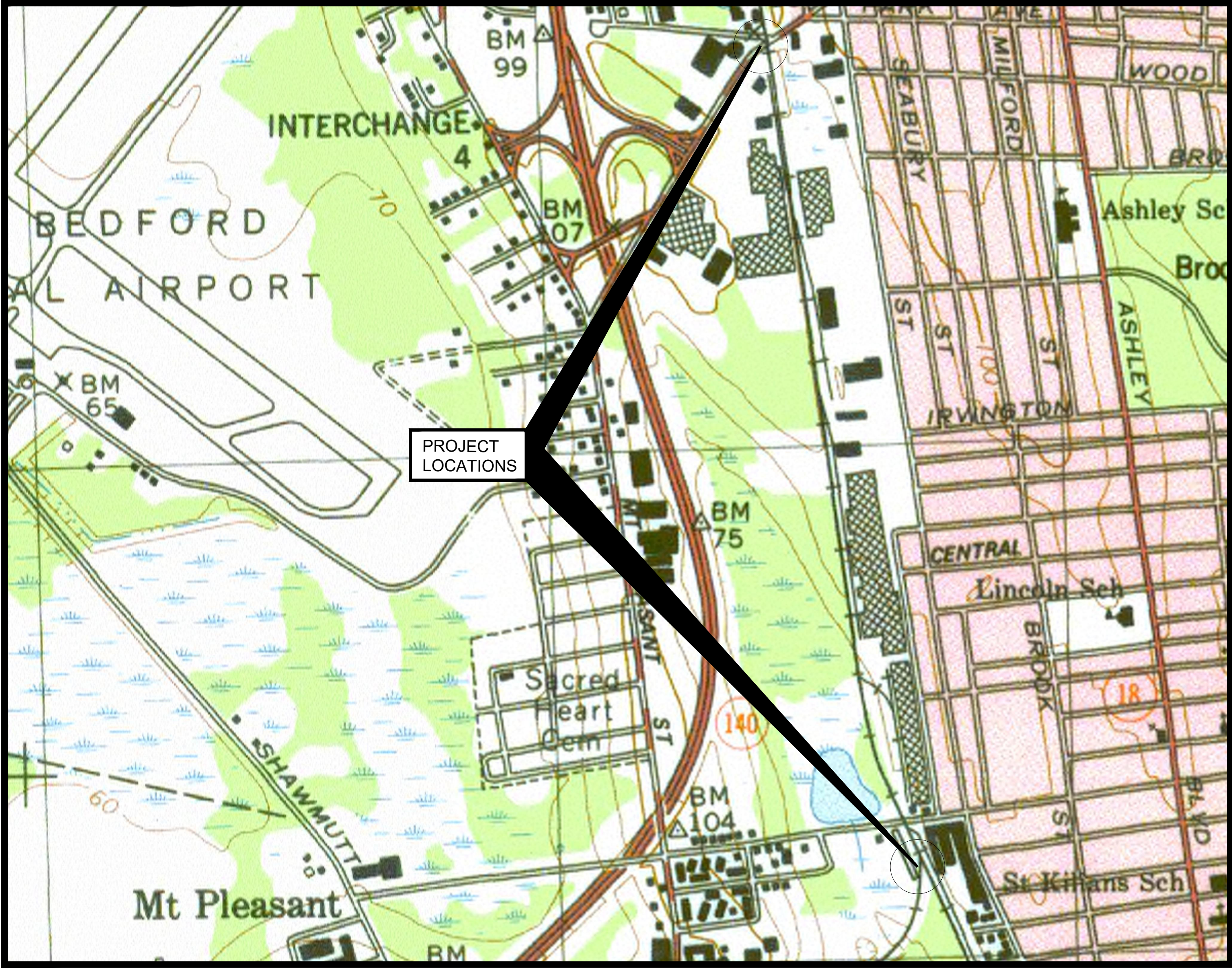




LOCUS MAP

DRAWING INDEX

SHEET NO.	DRAWING DESCRIPTION
GENERAL	
1	TARKILN HILL ROAD COVER SHEET AND INDEX
2	TARKILN HILL ROAD GENERAL NOTES
3	TARKILN HILL ROAD LEGEND AND ABBREVIATIONS
4	TARKILN HILL ROAD EXISTING CONDITIONS PLAN
5	TARKILN HILL ROAD PROPOSED DRAINAGE PLAN
6	WETLAND REPLICATION EXISTING CONDITIONS PLAN
7	WETLAND REPLICATION GRADING PLAN
8	WETLAND REPLICATION PLANTING PLAN
9	WETLAND REPLICATION CROSS SECTION AND DETAILS
10	TARKILN HILL ROAD DETAILS SHEET 1
11	TARKILN HILL ROAD DETAILS SHEET 2

City of
New Bedford
Department of Public Infrastructure
Tarkiln Hill Road
Drainage Improvements
Notice of Intent Plans

MARCH 2, 2018

APPROVALS:

NAME
TITLE

Date:

NAME
TITLE

ISSUED FOR NOTICE OF INTENT

GENERAL

1.

ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
2.

THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
3.

WORK IMPACTING RAILROAD PROPERTY AND / OR RIGHT-OF-WAY SHALL BE COORDINATED WITH MBTA, KEOLIS, MCRR, AND CSX.
4.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITY SHALL BE IN ACCORDANCE WITH MassDOT, MBTA & OSHA STANDARDS AND LOCAL REQUIREMENTS.
5.

THE CONTRACTOR SHALL PROVIDE 72 HOURS NOTICE TO ALL PRIVATE PROPERTY OWNERS ABUTTING CONSTRUCTION AREAS PRIOR TO COMMENCEMENT OF WORK.
6.

ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO APPLICABLE MUNICIPAL AND / OR STATE HIGHWAY STANDARDS.
7.

ALL SIGNAGE AND PAVEMENT MARKINGS WITH MUNICIPAL AND STATE HIGHWAY LAYOUT SHALL CONFORM TO THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
8.

ALL PROPOSED GRANITE BOUNDS AND ANY EXISTING MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A PROFESSIONAL LAND SURVEYOR (PLS).
9.

ALL EXISTING U.S.G.S DISKS, HIGHWAY BOUNDS, RAILROAD MONUMENTS, PROPERTY BOUNDS, AND CITY BOUNDS SHALL BE PROTECTED AND RAISED TO FINISHED GRADE AS REQUIRED, U.S.G.S. AND MASSDOT RESPECTIVELY. ANY DAMAGE TO U.S.G.S DISKS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND THE U.S. GEOLOGICAL SURVEY AND SHALL BE REPAIRED AT NO COST TO THE AUTHORITY. ANY DAMAGE TO TOWN BOUNDS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND MASSDOT AND SHALL BE REPAIRED AT NO COST TO THE AUTHORITY. THE CONTRACTOR SHALL INVENTORY ALL SUCH BOUNDS, DISKS, AND MONUMENTS PRIOR TO THE START OF ANY WORK.
10.

ALL EXISTING ROADWAY SIGNS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND STACKED UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
11.

CONTRACTOR SHALL INSTALL APPROVED EROSION CONTROL MEASURES PRIOR TO EARTHWORK OPERATION AND MAINTAIN EROSION CONTROL MEASURES AND SEEDED EMBANKMENTS DURING CONSTRUCTION. EROSION CONTROL SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
12.

TEMPORARY CONSTRUCTION EASEMENT AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITIONS UNLESS OTHERWISE NOTED AT NO ADDITIONAL COST TO THE PROJECT.
13.

AREAS OUTSIDE THE LIMIT OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
14.

JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HOT POURED RUBBERIZED ASPHALT SEALER AND BACKSANDED.
15.

ALL AREAS DISTURBED DURING CONSTRUCTION EXCEPT PAVEMENT AND STRUCTURES SHALL RECEIVE LOAM AND SEEDING PER THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
16.

TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.

EXISTING CONDITIONS

1.

HORIZONTAL DATUM IS REFERENCED TO THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM - NORTH AMERICAN DATUM OF 1983(2011). LOCUS IS WITHIN THE MAINLAND ZONE. SOURCE CONTROL FOR THE TIE TO THE DATUMS IS MAINE TECHNICAL SOURCE'S REFERENCE STATIONS IN FOXBOROUGH, MA (XMTS), MASSDOT CORS STATION (MAMI) IN MILTON, MA, MASSDOT CORS STATION (MADA) IN DARTMOUTH AND COAST GUARD STATION (ACU6) IN ACUSHNET MA. COORDINATE VALUES WERE DERIVED USING STATIC METHODS BASED ON VARIOUS COMBINATIONS OF THE AFOREMENTIONED CORS STATIONS.
2.

VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SOURCE CONTROL FOR THE TIE TO THE VERTICAL DATUM ARE SAME CORS STATIONS REFERRED TO IN NOTE 1.
3.

BOUNDARY INFORMATION SHOWN (IF ANY) IS FROM GIS DATA SOURCES ONLY, UNLESS NOTED OTHERWISE. BOUNDARY SURVEY OR RETRACEMENT OF THE RIGHT OF WAY HAS NOT BEEN PERFORMED BY BRYANT ASSOCIATES OR PRIME AE GROUP.
4.

SURVEY DATA SHOWN HAS BEEN PREPARED BY BRYANT ASSOCIATES, INC., 90 CANAL STREET, SUITE 301, BOSTON, MA 02114 (617) 248-0300 AND PRIME AE GROUP, INC., 55 CAPITAL BOULEVARD, 2ND FLOOR, ROCKY HILL, CT 06067 (860) 436-5600. GENERICALLY AND WITH SOME EXCEPTIONS, BRYANT HAS PRODUCED THE DATA NORTH OF WEIR JUNCTION AND SOUTH OF MYRICK'S JUNCTION ON THE FALL RIVER SECONDARY TO THE TERMINUS IN FALL RIVER. PRIME HAS PRODUCED THE DATA SOUTH OF WEIR JUNCTION ON THE NEW BEDFORD MAINLINE TO THE TERMINUS IN NEW BEDFORD. THE SURVEY DATA HAS BEEN COMPILED UTILIZING MANY DIFFERENT TECHNOLOGIES TO MATCH THE BEST PRACTICES AND REQUIREMENTS OF THE PROJECT. AERIAL DATA WAS PROVIDED BY COL-EAST, INC. THROUGHOUT THE PROJECT CORRIDOR BASED ON SURVEY CONTROLS PROVIDED BY BRYANT ASSOCIATES. MAPPING WAS SPECIFIED FOR 1"=20' WITH 1' CONTOUR ACCURACY. THE AERIAL SURVEY WAS SUPPLEMENTED WITH GROUND SURVEY PERFORMED USING TOTAL STATIONS AND LASER SCANNING.
5.

THE SURFACE EVIDENCE OF THE UTILITIES SHOWN HAS BEEN LOCATED BY FIELD SURVEY, UNLESS NOTED OTHERWISE. THE LINEWORK REPRESENTING ALL UNDERGROUND STRUCTURES AND PIPES HAS BEEN SHOWN HEREON IN ITS APPROXIMATE LOCATION BASED ON AVAILABLE RECORD PLANS. THE SURVEYORS MAKE NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. EVIDENCE OF ADDITIONAL UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT CORRIDOR.
6.

WETLAND BOUNDARIES WERE DELINEATED AND SURVEYED IN 2012, AND SUPPLEMENTED IN 2015, 2016, AND 2017.
7.

THE CONTRACTOR SHALL CONFIRM EXISTING CONDITIONS AND REPORT ALL DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER.

UTILITIES

1.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT "DIG SAFE" 72 HOURS PRIOR TO ANY EXCAVATION PERFORMED ON OR OFF SITE AT 1-888-344-7233 AND SHALL COORDINATE LOCATION OF NON "DIG SAFE" MEMBER UTILITIES WITHIN THE TIME FRAME SPECIFIED BY THE UTILITY OWNER.

UTILITIES (CONT.)

2.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS AND SHALL BE RESPONSIBLE FOR PAYING ANY FEES FOR ANY POLE RELOCATION AND FOR THE ALTERATION OR ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANY.
3.

THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, INVERTS, AND TYPES OF EXISTING PIPES AT ALL PROPOSED POINTS OF CONNECTION PRIOR TO ORDERING MATERIALS. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
4.

ALL EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE AND KEPT OPERATIONAL DURING CONSTRUCTION EXCEPT AS NOTED ON THE CONTRACT DRAWINGS. ANY NECESSARY DISRUPTION TO OR ABANDONMENT OF EXISTING UTILITIES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES AND CITIES / TOWNS THAT MAY BE AFFECTED BY ANY PORTION OF THIS CONSTRUCTION AND TO COORDINATE ALL WORK INVOLVING UTILITY COMPANIES OR CITY / TOWN FACILITIES, WHETHER THOSE FACILITIES ARE EXISTING OR PROPOSED. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPORT AND PROTECT EXISTING UTILITIES IN AND AROUND EXCAVATIONS. PROTECTION AND OR SUPPORT SHALL BE CONSIDERED INCIDENTAL WORK AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM BEING INSTALLED.
6.

EXISTING UTILITIES CALLED FOR TO BE RELOCATED SHALL BE VERIFIED WITH RESPECTIVE CONTROLLING AUTHORITY AS TO THEIR FINAL DISPOSITION.
7.

ALL UTILITY SURFACE CASTINGS (COVERS, GRATES, GATE BOXES, ETC.) TO REMAIN SHALL BE ADJUSTED TO THE NEW SURFACE GRADE AS REQUIRED, WHETHER OR NOT CALLED FOR ON THE PLANS.
8.

THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK CONFORMING TO M4.05.2 OF THE MASSDOT HIGHWAY STANDARD SPECIFICATIONS.
9.

CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER, AND UTILITY FACILITIES FROM ALL LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
10.

FIELD VERIFY EXISTING DRAINAGE MANHOLE AND CATCH BASIN INVERTS AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER PRIOR TO START OF ANY DRAINAGE INSTALLATION.
11.

ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
12.

CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL, MAINTAIN, AND REMOVE APPROVED EROSION CONTROL CHECKS AROUND CATCH BASIN FRAMES AND GRATES TO PREVENT RUNOFF SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

NOTICE OF INTENT
SUBMISSION PLAN

CITY ENGINEER: _____

DATE: _____

NO.	DATE	DESCRIPTION	BY

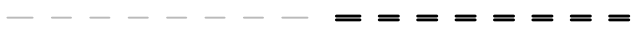
CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE	
TARKILN HILL ROAD GENERAL NOTES	
DESIGNED BY : xx	SCALE: N/A
CHECKED BY : xx	DATE : 12/13/2017
SHEET 2 OF 11	

GENERAL SYMBOLS

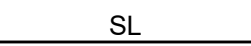
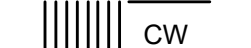
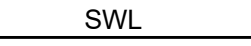
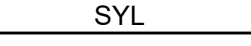
EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W/ 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 12 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 12 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 12 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 12 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 12 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 12 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		6' HIGH CHAIN LINK FENCE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE

	PROPERTY LINE OR APPROXIMATE PROPERTY LINE
	RIGHT OF WAY
	EASEMENT
	POINT OF SWITCH
	CENTERLINE OF STREAM
	PERMANENT EASEMENT

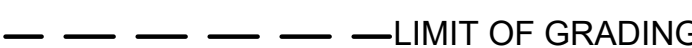
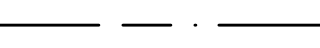
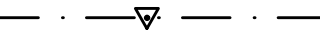
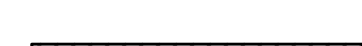
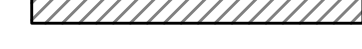
TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		RAILROAD SIGNAL
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE
		RAILROAD GRADE CROSSING

ENVIRONMENTAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		LIMIT OF GRADING
		EROSION CONTROL / LIMIT OF WORK
		100 YR-FLOODPLAIN / BLSF
		RIVERFRONT AREA
		BANK
		BORDERING VEGETATED WETLAND
		100 FT WETLAND BUFFER ZONE
		200 FT RIVERFRONT AREA
		EDGE OF CHANNEL
		PERMANENT BVW / BANK IMPACT
		TEMPORARY BVW / BANK IMPACT
		PERMANENT BLSF IMPACT
		TEMPORARY BLSF IMPACT

ABBREVIATIONS

GENERAL	
ABD	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CAB.	CABINET
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL (or C)	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CONC	CONCRETE
CONST	CONSTRUCTION
CWK	CONCRETE WALK
DI	DROP INLET
DIA (or Ø)	DIAMETER
DIP	DUCTILE IRON PIPE
DMH	DRAIN MANHOLE
DWY	DRIVEWAY
DYL	DOUBLE YELLOW LINE
EC	EROSION CONTROL
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EMH	ELECTRIC MANHOLE
EOP (or EP)	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FES	FLARED END SECTION
FT	FOOT
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
IN	INCH
INV (or I)	INVERT
JCT	JUNCTION
L (or LT)	LEFT
L	LENGTH (OF CURVE)
LB	LEACH BASIN
LF	LINEAR FEET
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MBTA	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
MCRR	MASSACHUSETTS COASTAL RAILROAD
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND

MIN	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NBML	NEW BEDFORD MAINLINE
NIC	NOT IN CONTRACT
NO.	NUMBER
OCS	OVERHEAD CONTACT SYSTEM
OFF	OFFSET
OHW	OVERHEAD WIRE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PED	PEDESTRIAN
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R (or RT)	RADIUS OF CURVATURE, RIGHT, RIM
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
RGS	RIGID GALVANIZED STEEL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
S	SLOPE
SB	STONE BOUND
SD	STORM DRAIN
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET, STONE
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SIH	SIGNAL INSTRUMENT HOUSE
SW	SIDEWALK
SWEL	SOLID WHITE EDGE LINE
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TMH	TELEPHONE MANHOLE
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
U.S.G.S.	UNITED STATES GEOLOGICAL SURVEY
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
WMH	WATER MANHOLE
WQS	WATER QUALITY STRUCTURE
X-SECT	CROSS SECTION

ENVIRONMENTAL ABBREVIATIONS

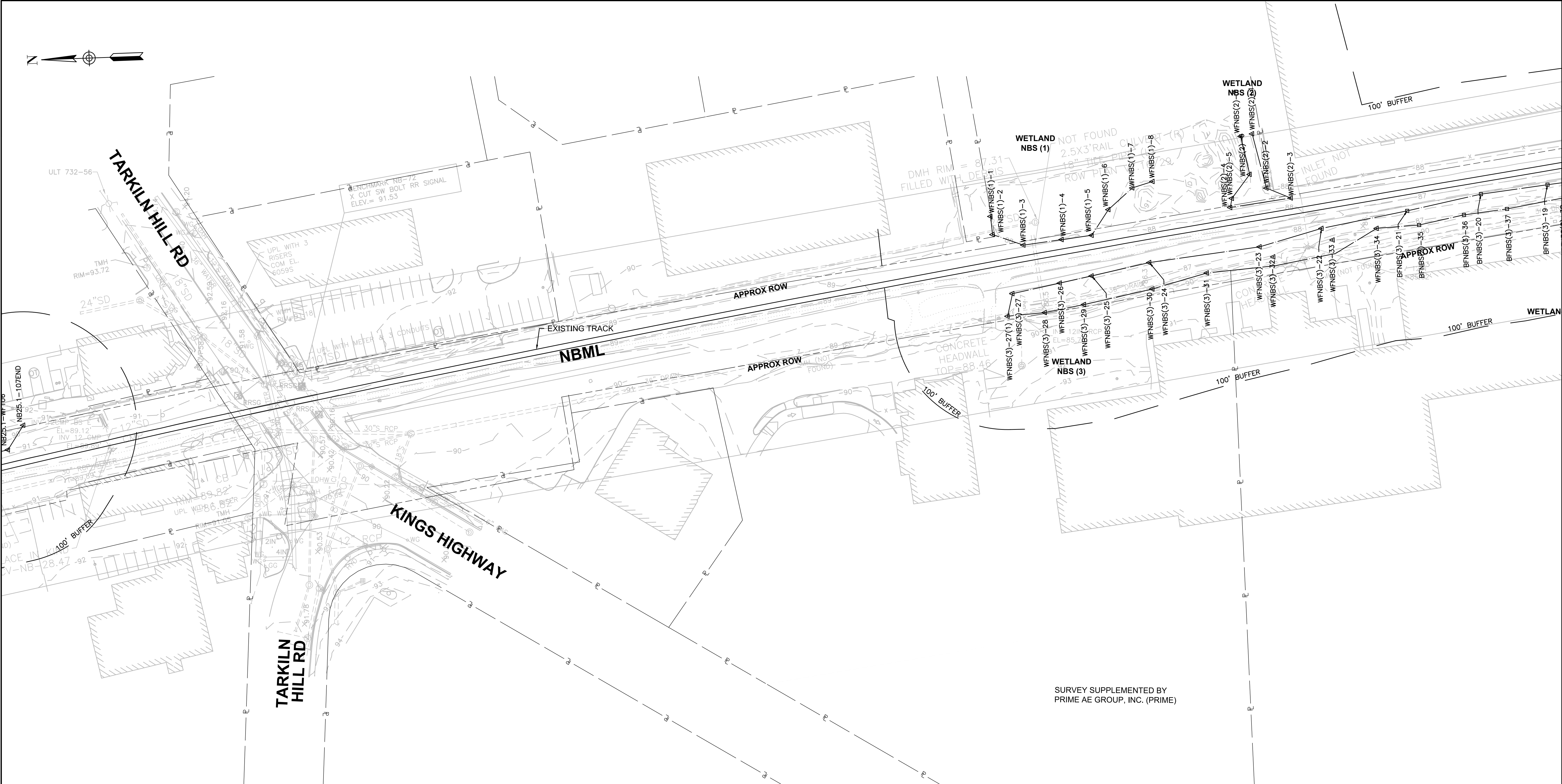
BF	BANK FLAG
BLSF	BORDERING LAND SUBJECT TO FLOODING
BVW	BORDERING VEGETATED WETLANDS
CVP	CERTIFIED VERNAL POOL
LSCSF	LAND SUBJECT TO COASTAL STORM FLOWAGE
LUW	LAND UNDER WATER
RA	RIVERFRONT AREA
WF	WETLAND FLAG
WL	WETLAND

NOTICE OF INTENT SUBMISSION PLAN

CITY ENGINEER: _____ DATE: _____

NO.	DATE	DESCRIPTION	BY

CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE	
TARKILN HILL ROAD LEGEND AND ABBREVIATIONS	
DESIGNED BY : xx	SCALE: N/A
CHECKED BY : xx	DATE : 12/13/2017
SHEET 3 OF 11	



EXISTING DRAINAGE CONDITIONS

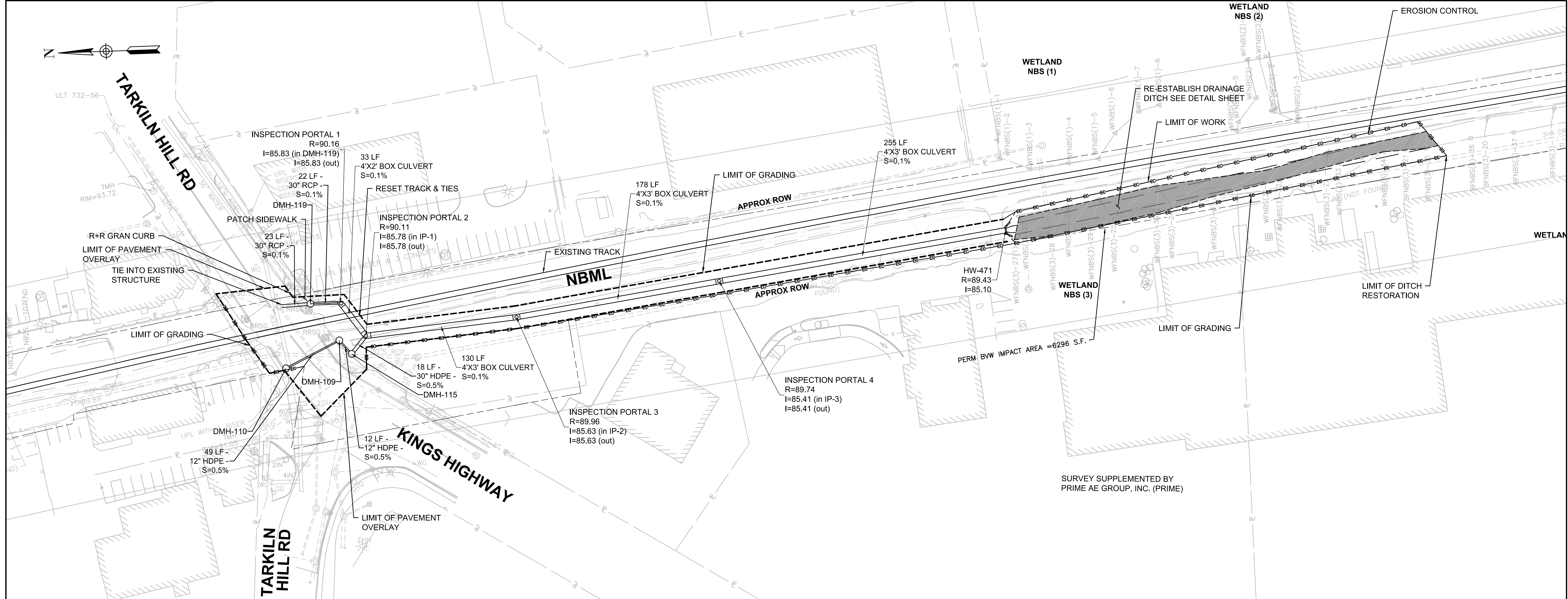


CITY ENGINEER: _____ DATE: _____

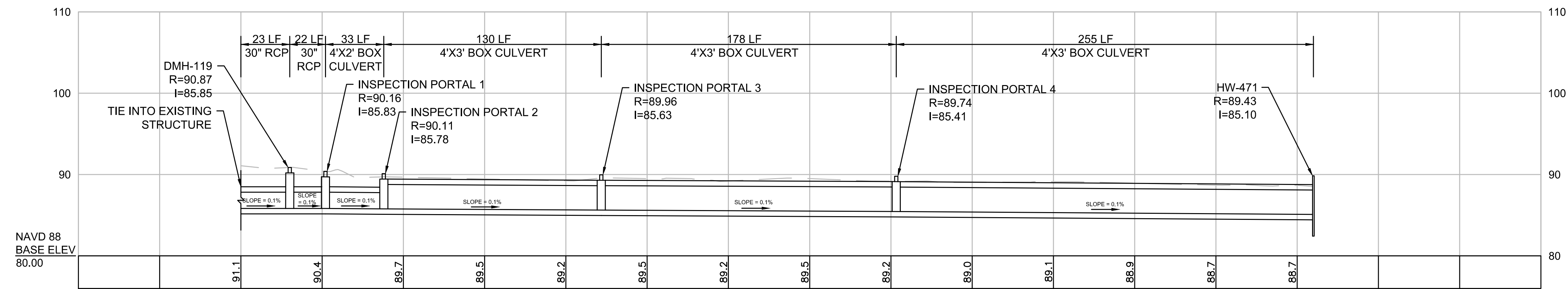
**NOTICE OF INTENT
SUBMISSION PLAN**

NO.	DATE	DESCRIPTION	BY

CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE	
TARKILN HILL ROAD EXISTING CONDITIONS PLAN	
DESIGNED BY : xx	SCALE: 1" = 40'
CHECKED BY : xx	DATE : 12/13/2017
SHEET 4 OF 11	



PROPOSED DRAINAGE CONDITIONS



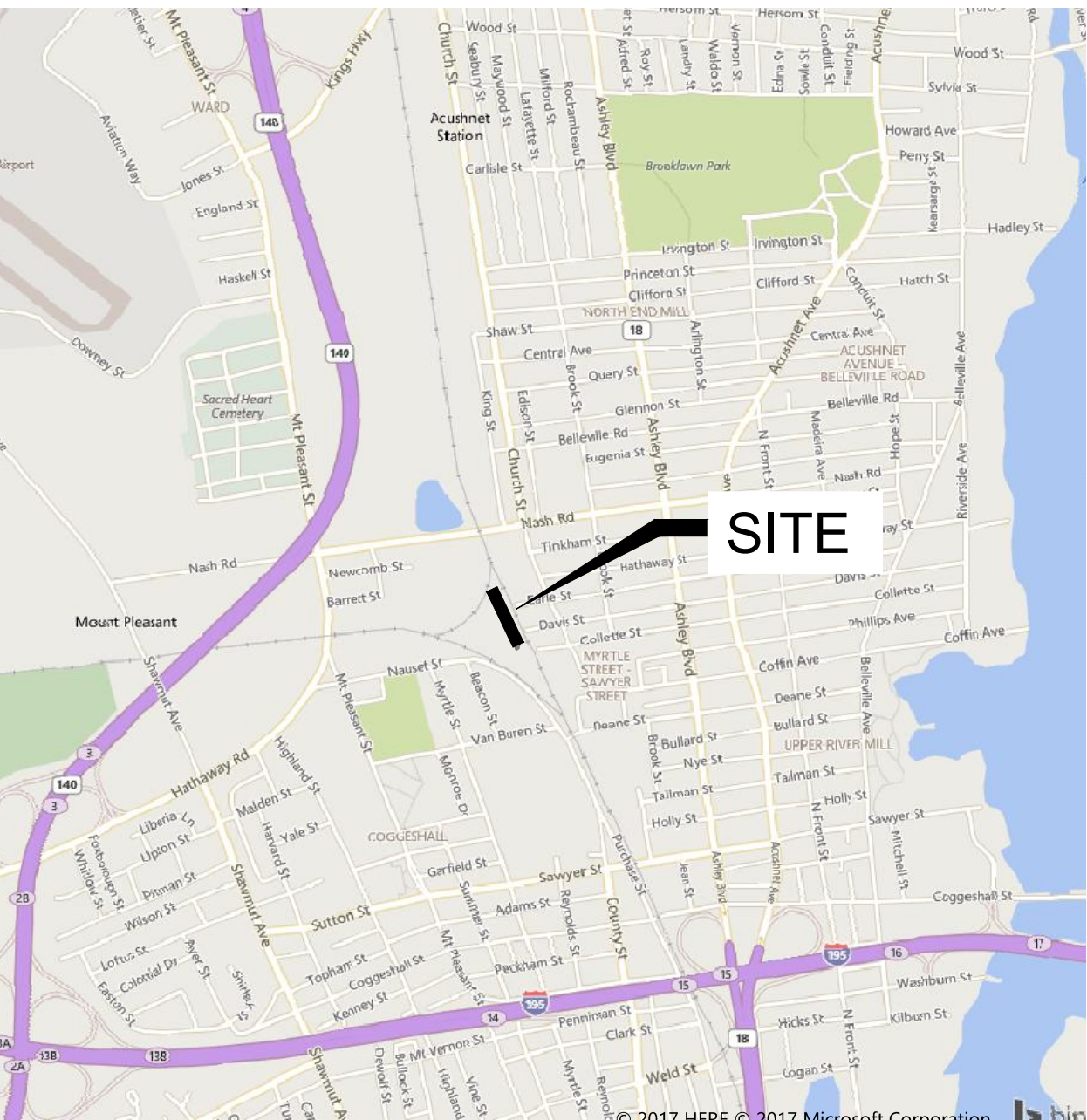
- NOTES:
1. INSTALL SILT SACK IN EXISTING CATCH BASINS, BEFORE COMMENCING WORK AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE. MAINTAIN UNTIL BINDER COURSE PAVING IS COMPLETE OR PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
 2. 4'X2' BOX CULVERT SHALL BE DESIGNED FOR COOPER E-80 LOADING.

CITY ENGINEER: _____ DATE: _____

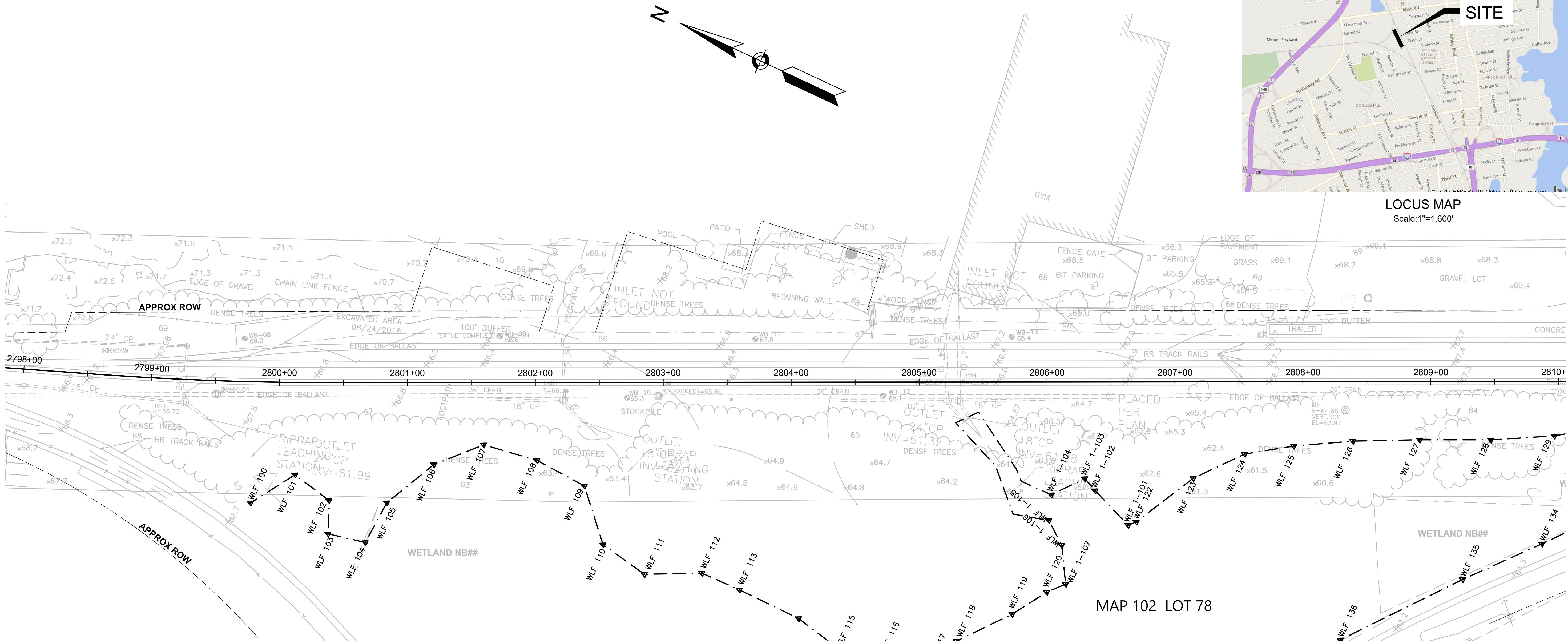


NOTICE OF INTENT
SUBMISSION PLAN

CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE			
TARKILN HILL ROAD PROPOSED DRAINAGE PLAN			
DESIGNED BY :	xx	SCALE: 1" = 40'	
CHECKED BY :	xx	DATE : 12/13/2017	
		SHEET 5 OF 11	
NO.	DATE	DESCRIPTION	BY



LOCUS MAP
Scale: 1"=1,600'



MAP 102 LOT 78

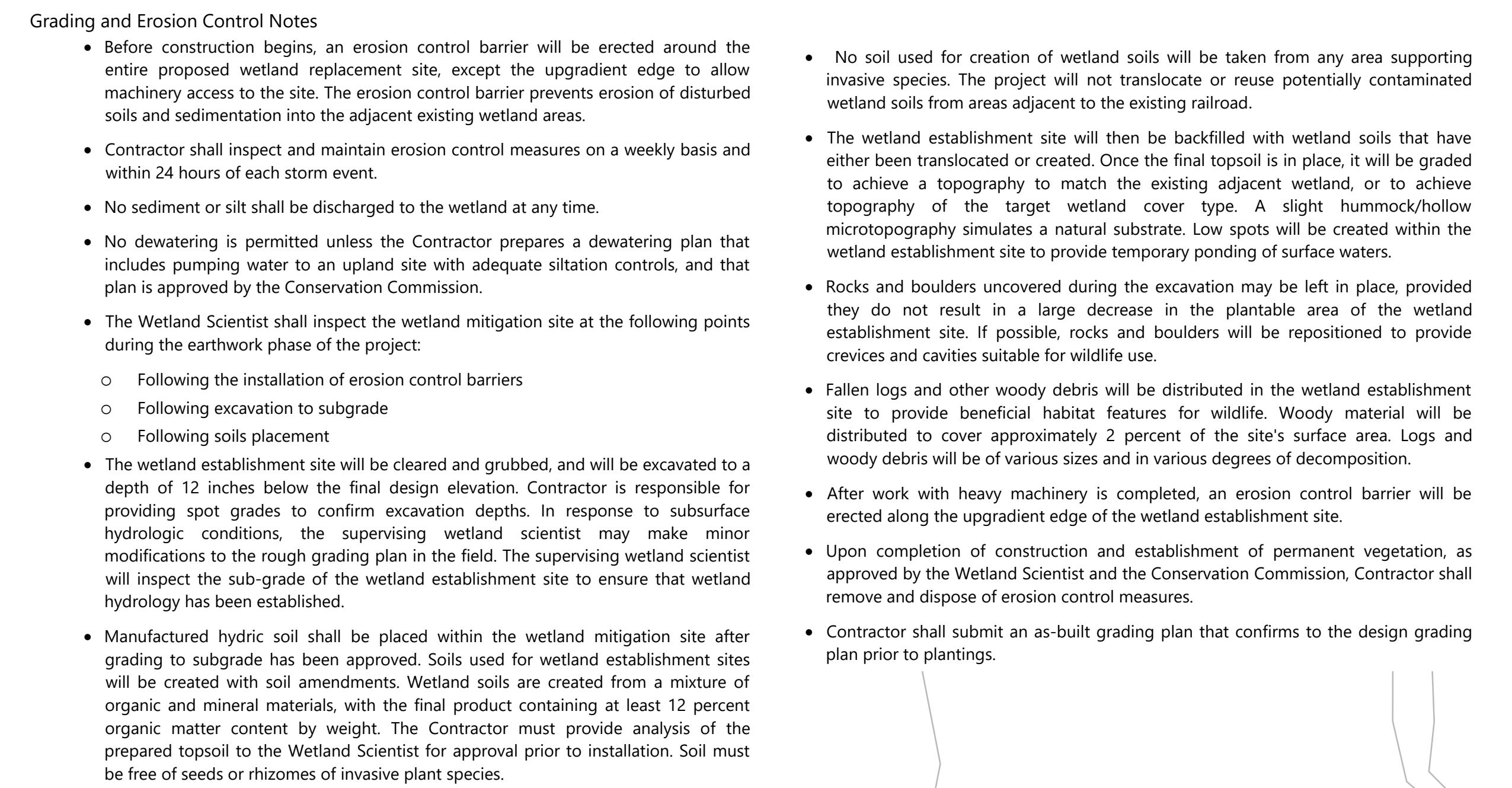


CITY ENGINEER: _____ DATE: _____

NOTICE OF INTENT
SUBMISSION PLAN

CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE			
WETLAND REPLICATION EXISTING CONDITIONS PLAN			
DESIGNED BY : xx		SCALE: N/A	
CHECKED BY : xx		DATE : 12/13/2017	
		SHEET 6 OF 11	

NO.	DATE	DESCRIPTION	BY



CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE	
WETLAND REPLICATION GRADING PLAN	
DESIGNED BY : xx	SCALE: N/A
CHECKED BY : xx	DATE : 12/13/2017
SHEET 7 OF 11	

Planting Notes

- Prior to delivery to the site, the supervising wetland scientist will visit the nursery or nurseries providing the planting stock to ensure that the specimens are healthy, free from pests and any invasive plant material, and suitable for use within the wetland establishment site. Unsuitable specimens will be rejected and replaced with suitable specimens. The supervising wetland scientist must approve any planting substitutions. All woody plant stock will be either bare root stock or container grown.
- Planting within the wetland establishment site and adjacent uplands will conform to the plans or will be completed in accordance with directions provided in the field. Only plant materials native and indigenous to the region will be used. Use of cultivars will be prohibited. Species not specified in the final planting plan will not be used without written approval from the permitting agency.
- All plantings will be spaced in similar species clusters in a random distribution, at the direction of the supervising wetland scientist, to simulate natural growth patterns.
- Transplants and plant material collected from the wild is prohibited unless approved in writing by the Wetland Scientist. All plant material used shall be nursery-grown and healthy, sound and free of disease, insect pests, eggs or larvae, discolorations, leaf wilting or curling and weeds.
- Container-grown stock shall have been grown in a container long enough for the root system to have developed sufficiently to hold its soil after removal from the container. Roots shall visibly extend to the inside face of the growing container but shall not be root-bound or girdling.
- All plants shall be delivered to the site as live, actively growing, or just breaking dormancy, and arrive to the project site ready for planting. The Wetland Scientist may reject plants damaged in handling or transport. Plant material shall be installed as soon as possible after it has been delivered to the site.

- Soil and rootmass shall be watered and moist on delivery to the job site. Plants with dry soil and roots shall not be acceptable. All plant materials temporarily stored at the site prior to planting shall be stored out of direct exposure to sun and wind, shall be maintained by careful watering, and shall be protected from damage due to construction activities and adverse weather.
- Tree and shrub planting to occur between May 1 and September 15.
- Upon completion of planting, the areas around each plant or cluster or plants will be mulched with a 2 inch thick layer of leaf litter or other natural organic material (not fresh wood chips)
- The erosion control barriers will be disassembled and properly disposed of before November 1 of the third full growing season after planting of the wetland establishment site. Sediment collected by the barriers will be removed and disposed of in a manner that prevents erosion and transport to a wetland or waterway. If minor grading is required in the immediate zone around the erosion control barrier to provide surface hydrologic connection between the wetland establishment site and the existing wetland area, it will be done by hand and stabilized by mulch.
- Watering shall be required during the growing season (May 1 - Nov. 1) when natural rainfall is below one inch per week, for the first month. Water shall be applied in sufficient quantity to thoroughly saturate the soil in the root zone of each plant. Following the first month of planting, watering will be limited to periods of declared drought. Water shall be provided by the Contractor.
- All plant materials shall be guaranteed for one year following date of final acceptance.

Seeding Notes

- Seeding within the wetland establishment site and adjacent uplands will conform to the plans or will be completed in accordance with directions provided in the field. Only plant materials native and indigenous to the region will be used. Use of cultivars will be prohibited. Species not specified in the final seeding plan will not be used without written approval from the Wetland Scientist and permitting agency.
- Contractor shall supply a wetland seed mix including a majority of the species listed in the Wetland Seed Mix table. 75% of the seed mix, by weight, shall be indigenous grasses and sedges. Seeds must be from plants grown within 200 miles of the mitigation site. Contractor shall provide a written analysis of the seed mixture to the Wetland Scientist. No seeding is permitted without approval of the Wetland Scientist.
- Contractor shall supply an upland seed mix including a majority of the species listed in the Upland Seed Mix table. 75% of the seed mix, by weight, shall be indigenous grasses and. Seeds must be from plants grown within 200 miles of the mitigation site. Contractor shall provide a written analysis of the seed mixture to the Wetland Scientist. No seeding is permitted without approval of the Wetland Scientist.
- The Upland Seed Mix shall be applied to all disturbed soils within uplands adjacent to the Wetland Mitigation Area.
- The seed mixes shall be applied at a rate of 1 lb per 2,500 square feet. Seeds may be applied with a spreader or hydroseeded. If a hydroseed mulch is not used, the seeded area must be covered with a light layer of clear, seed-free straw.
- Watering shall be required during the growing season (May 1 - Nov. 1) when natural rainfall is below one inch per week, for the first month. Water shall be applied in sufficient quantity to thoroughly saturate the soil in the root zone of each plant. Following the first month of planting, watering will be limited to periods of declared drought. Water shall be provided by the Contractor.

Planting Schedule				
Symbol	Common Name	Latin Name	Quantity	Size
☼	Winterberry	<i>Ilex verticillata</i>	16	2-3 ft ht
⊙	Highbush blueberry	<i>Vaccinium corymbosum</i>	16	2-3 ft ht
⊗	Sweet pepperbush	<i>Clethra alnifolia</i>	14	2-3 ft ht

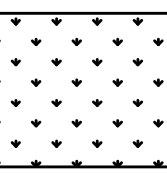
Upland Seed Mix	
Common Name	Latin Name
Little bluestem	<i>Schizachyrium scoparium</i>
Switchgrass	<i>Panicum virgatum</i>
Deertongue	<i>Dichanthelium scoparium</i>
Fescue	<i>Festuca ovina</i>
Kentucky bluegrass	<i>Poa pratensis</i>
Rough bent-grass	<i>Agrostis scabra</i>
Rough goldenrod	<i>Soldago rugosa</i>
New England Aster	<i>Aster novae-angliae</i>

Wetland Seed Mix	
Common Name	Latin Name
Sallow sedge	<i>Carex lurida</i>
Broom sedge	<i>Carex scoparia</i>
Fringed sedge	<i>Carex crinita</i>
Stalk-grained sedge	<i>Carex stipata</i>
Bearded sedge	<i>Carex comosa</i>
Tussock sedge	<i>Carex stricta</i>
Fox sedge	<i>Carex vulpinoidea</i>
Boneset	<i>Eupatorium perfoliatum</i>
Soft rush	<i>Juncus effusus</i>
Cardinal flower	<i>Lobelia cardinalis</i>
Green bulrush	<i>Scirpus atrovirens</i>
Woolgrass	<i>Scirpus cyperinus</i>
Soft Stem bulrush	<i>Scirpus tabernaemontani</i>
Rattlesnake manna-grass	<i>Glyceria canadensis</i>
American manna-grass	<i>Glyceria grandis</i>
Fowl meadow-grass	<i>Poa palustris</i>
Rice cutgrass	<i>Leersia oryzoides</i>
Virginia wild-rye	<i>Elymus virginicus</i>
Riverbank wild-rye	<i>Elymus riparius</i>
Grass-leaved goldenrod	<i>Euthamia graminifolia</i>

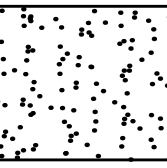
Upland Seed Mix shall include only species on this list.

Planting Rate: 1 lb/2500 square feet

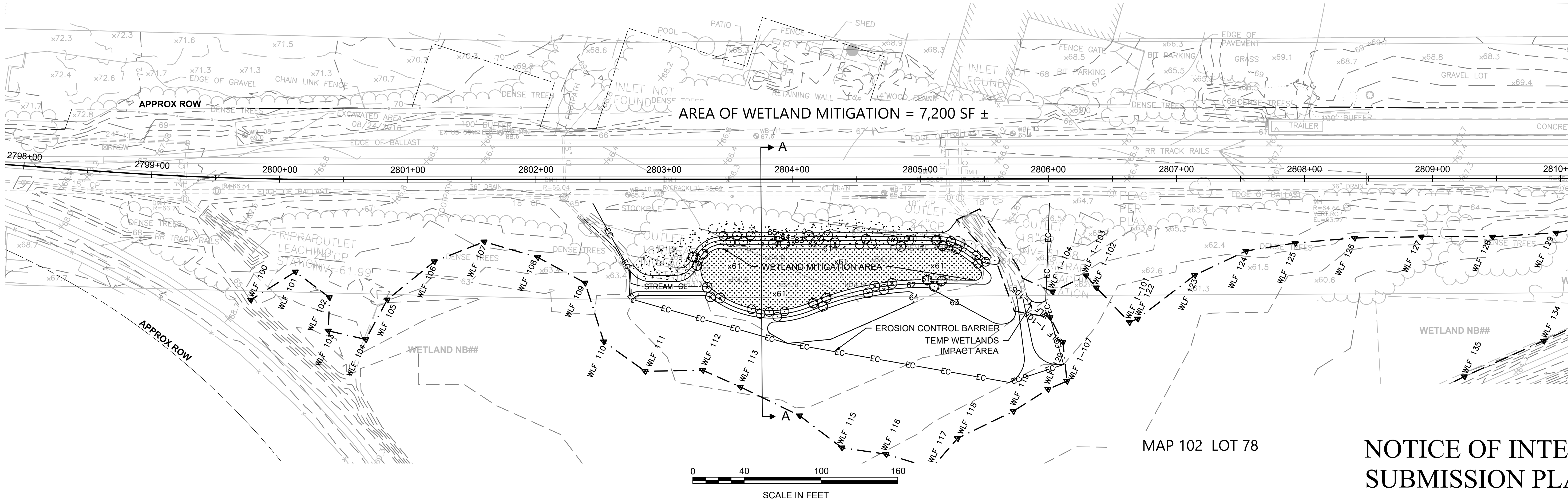
LEGEND

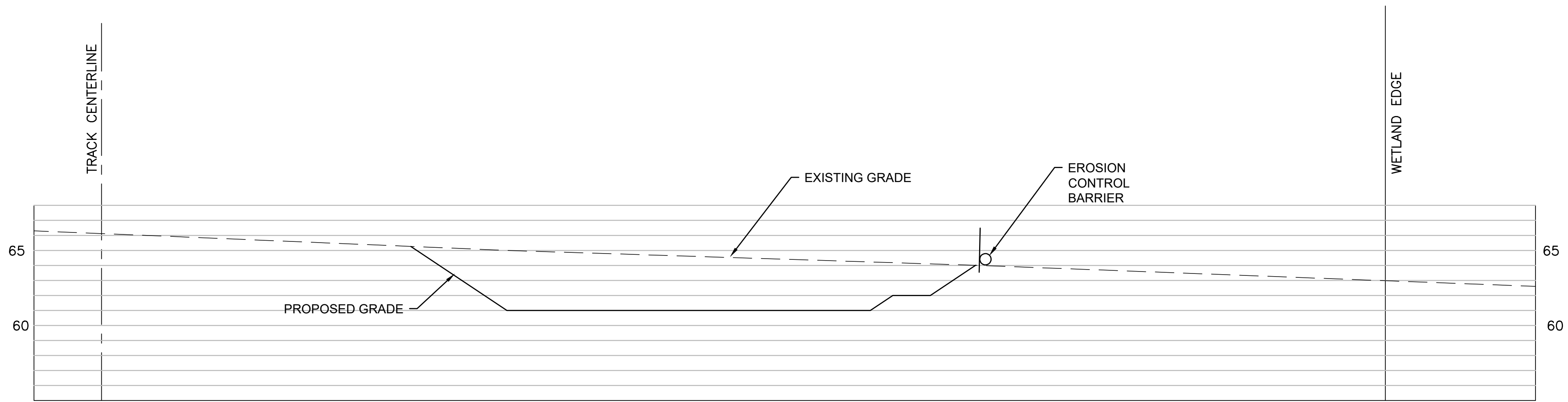


WETLAND SEED MIX



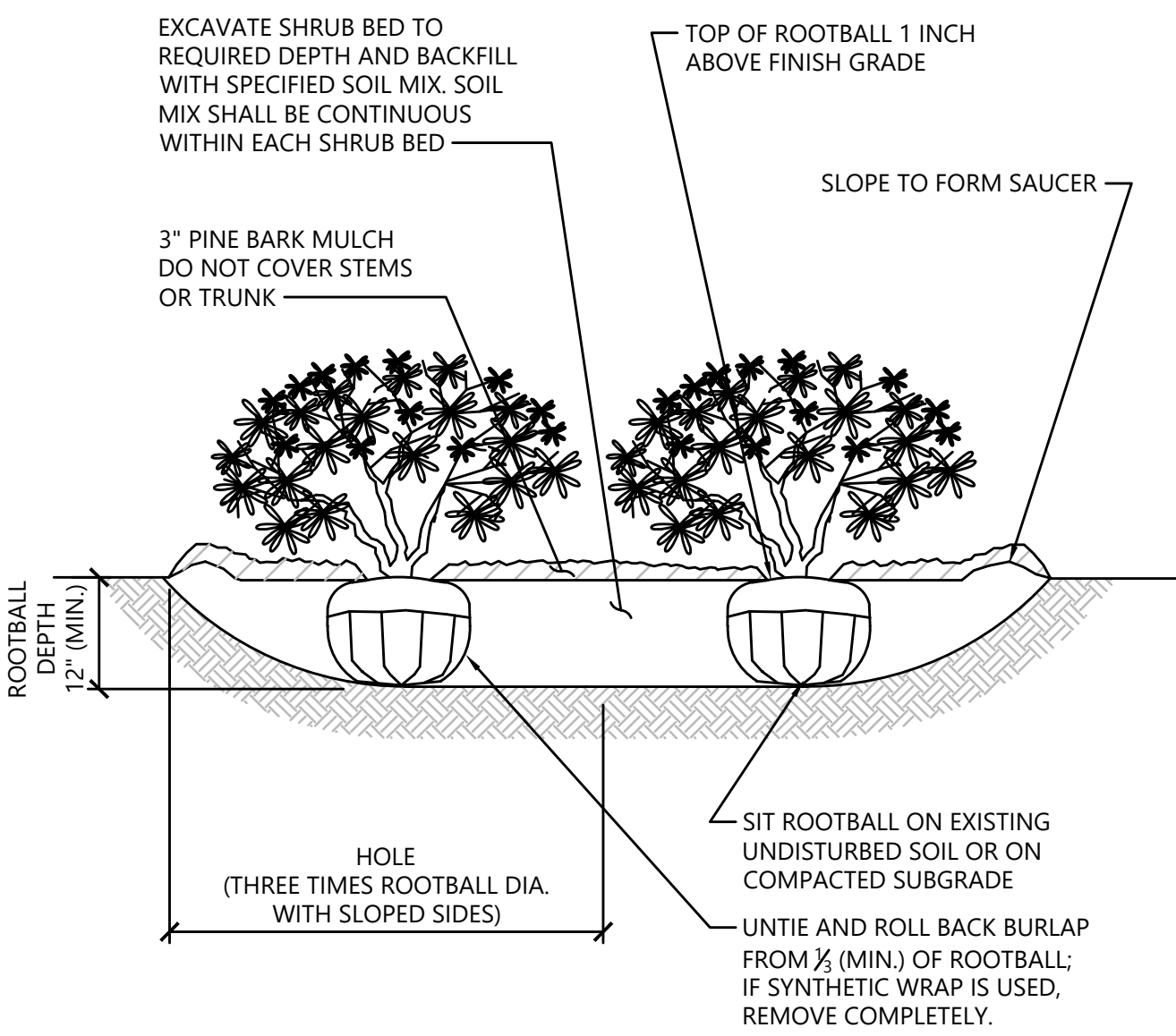
UPLAND SEED MIX





Cross Section A-A

1" = 10' Horiz., 1" = 5' Vert.



NOTES

1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.

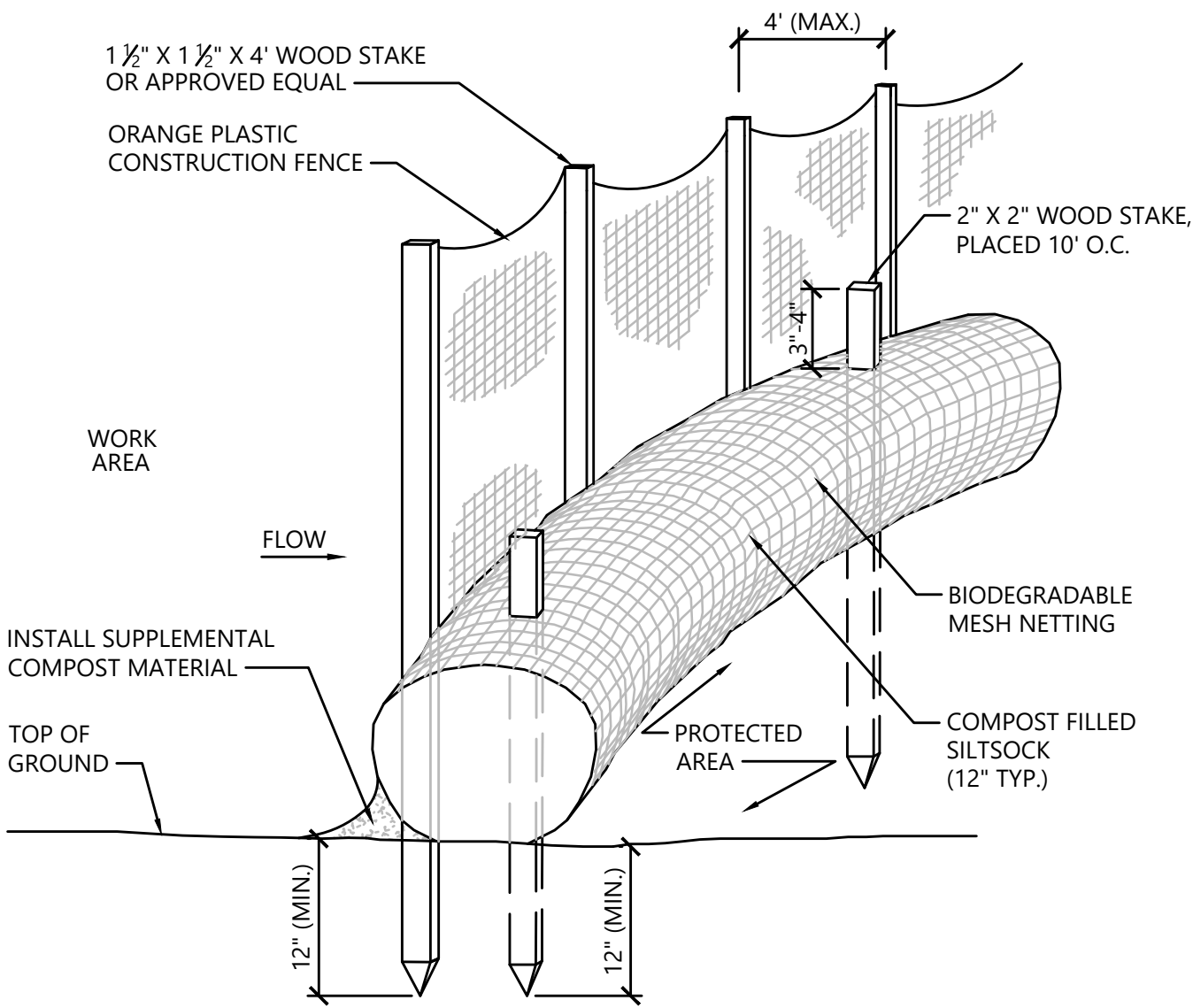
Shrub Bed Planting

N.T.S.

Source: VHB

1/16

LD_601



NOTES

1. SILT SOCK SHALL BE FILTREXX SILT SOXX, OR APPROVED EQUAL.
2. SILT SOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

Dartmouth Wye Erosion Control

N.T.S.

Source: VHB

1/16

LD_658-A

NOTICE OF INTENT
SUBMISSION PLAN

CITY OF NEW BEDFORD
DEPARTMENT OF PUBLIC INFRASTRUCTURE

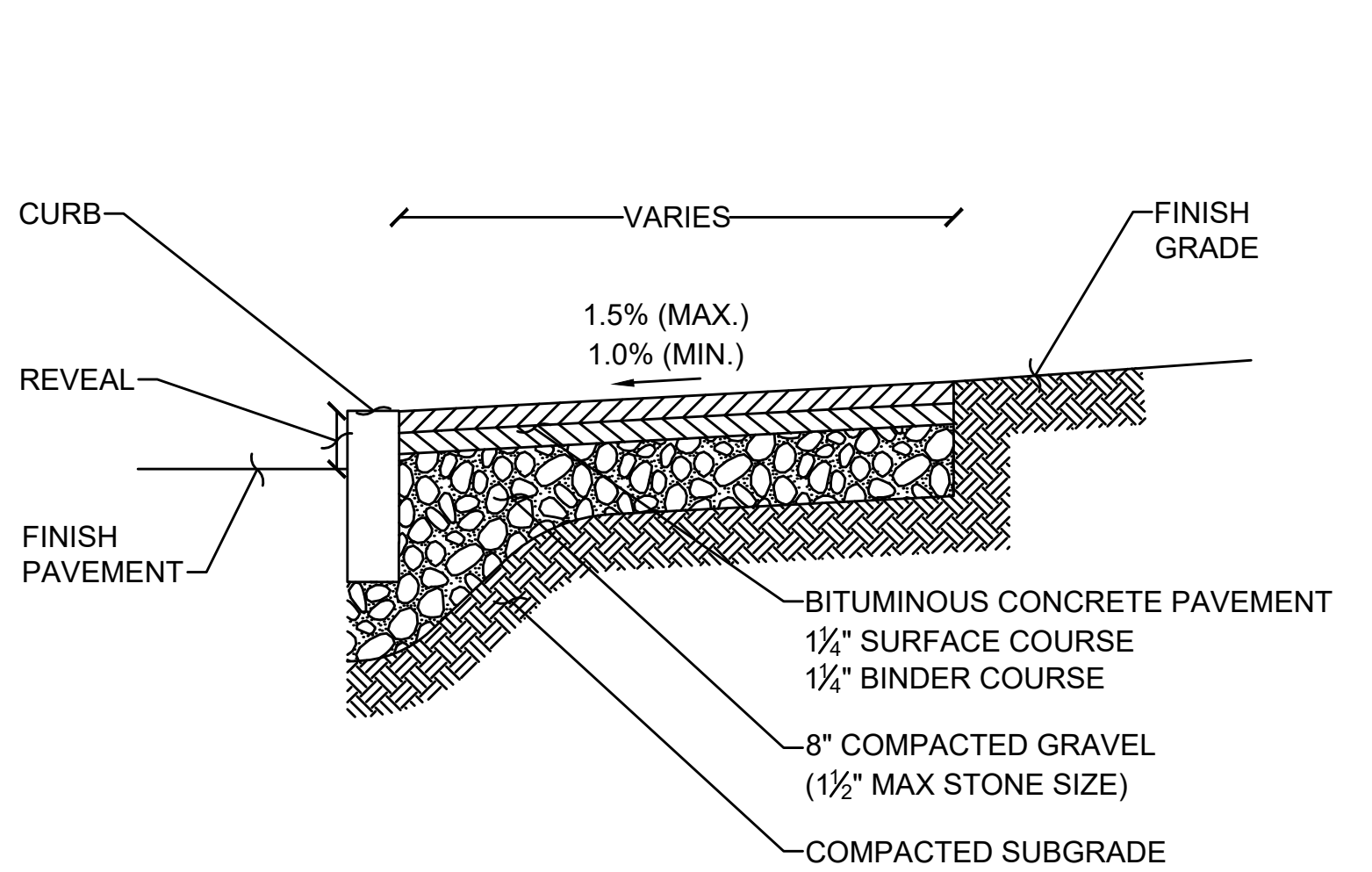
WETLAND REPLICATION
CROSS SECTION AND DETAILS

DESIGNED BY : xx
CHECKED BY : xx

SCALE: N/A
DATE : 12/13/2017

SHEET 9 OF 11

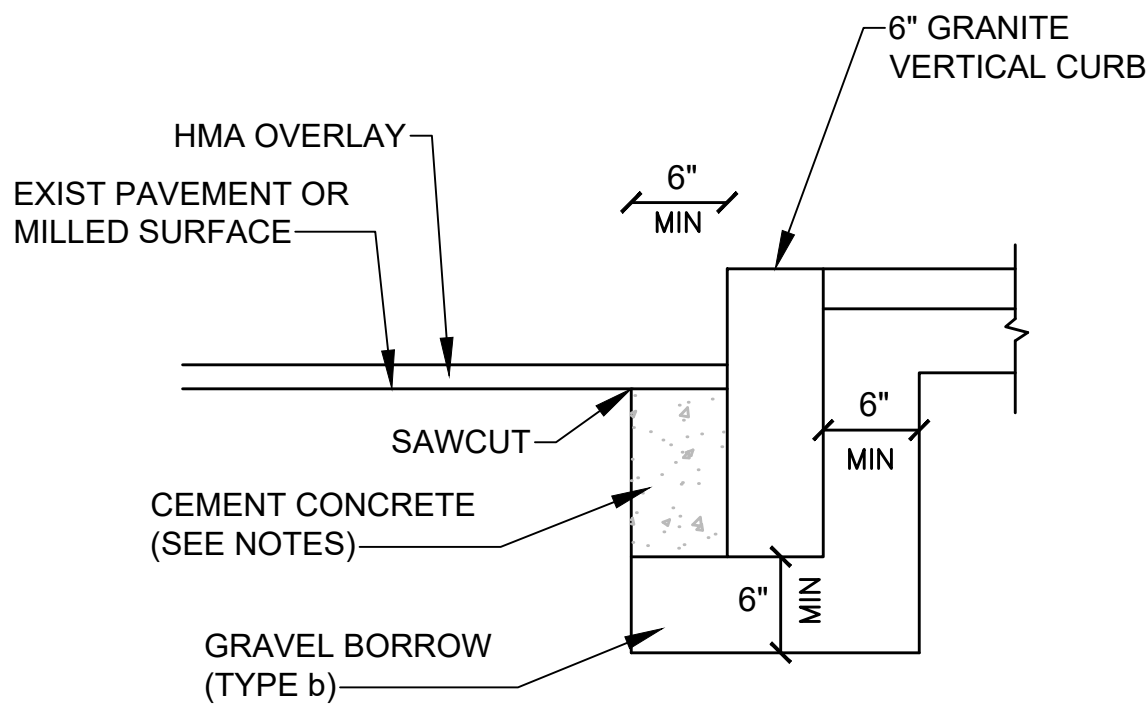
CITY ENGINEER: _____ DATE: _____



NOTE:
BOTH SURFACE AND BINDER MATERIAL
SHALL BE DENSE MIX.

Bituminous Concrete Sidewalk

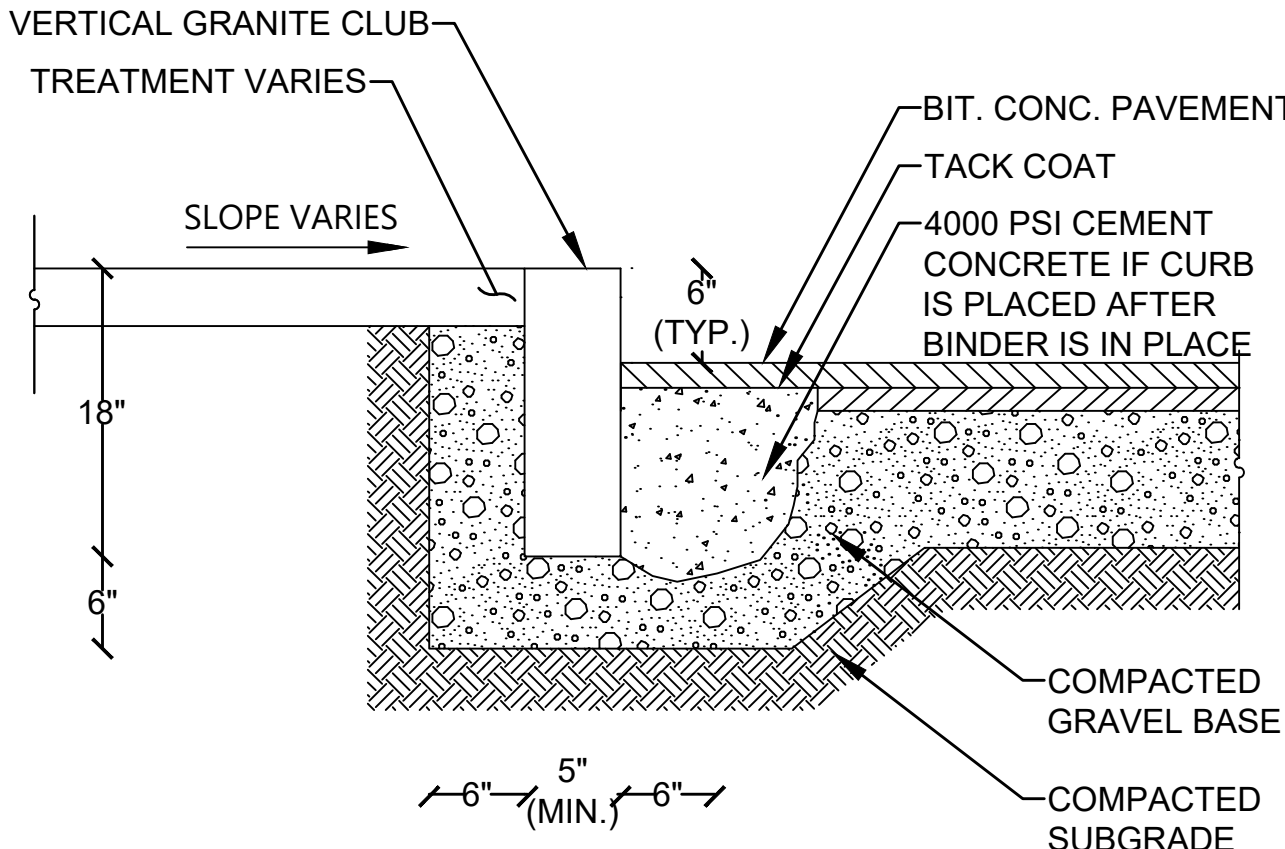
SCALE: N.T.S.



- NOTES:
1. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.
 2. SAWCUT 6" FROM CURB LINE AND REMOVE EXISTING PAVEMENT AND GRAVEL. REPLACE WITH CEMENT CONCRETE.
 3. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

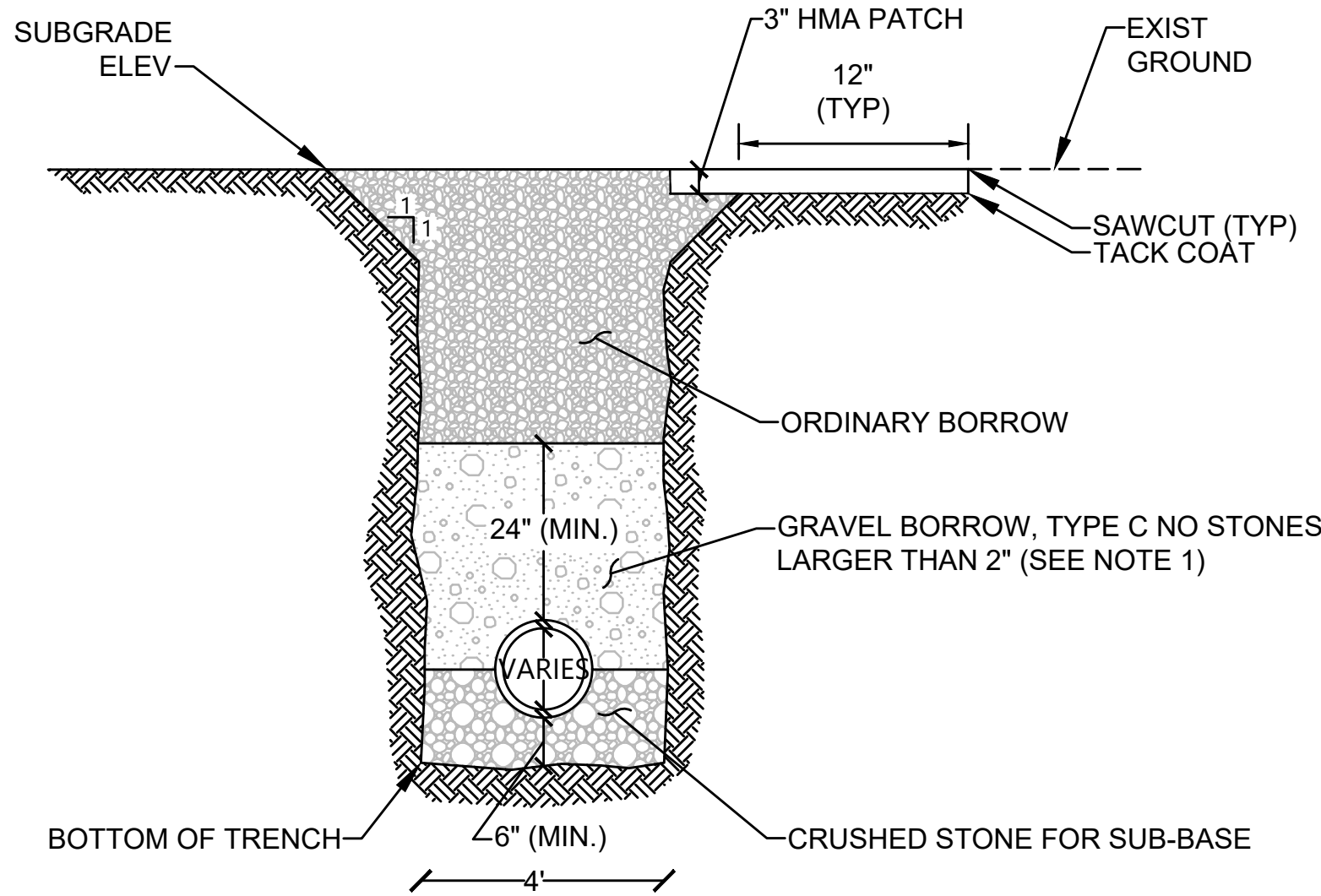
Granite Curb in Existing Pavement - with Overlay

SCALE: N.T.S.



Vertical Granite Curb

SCALE: N.T.S.

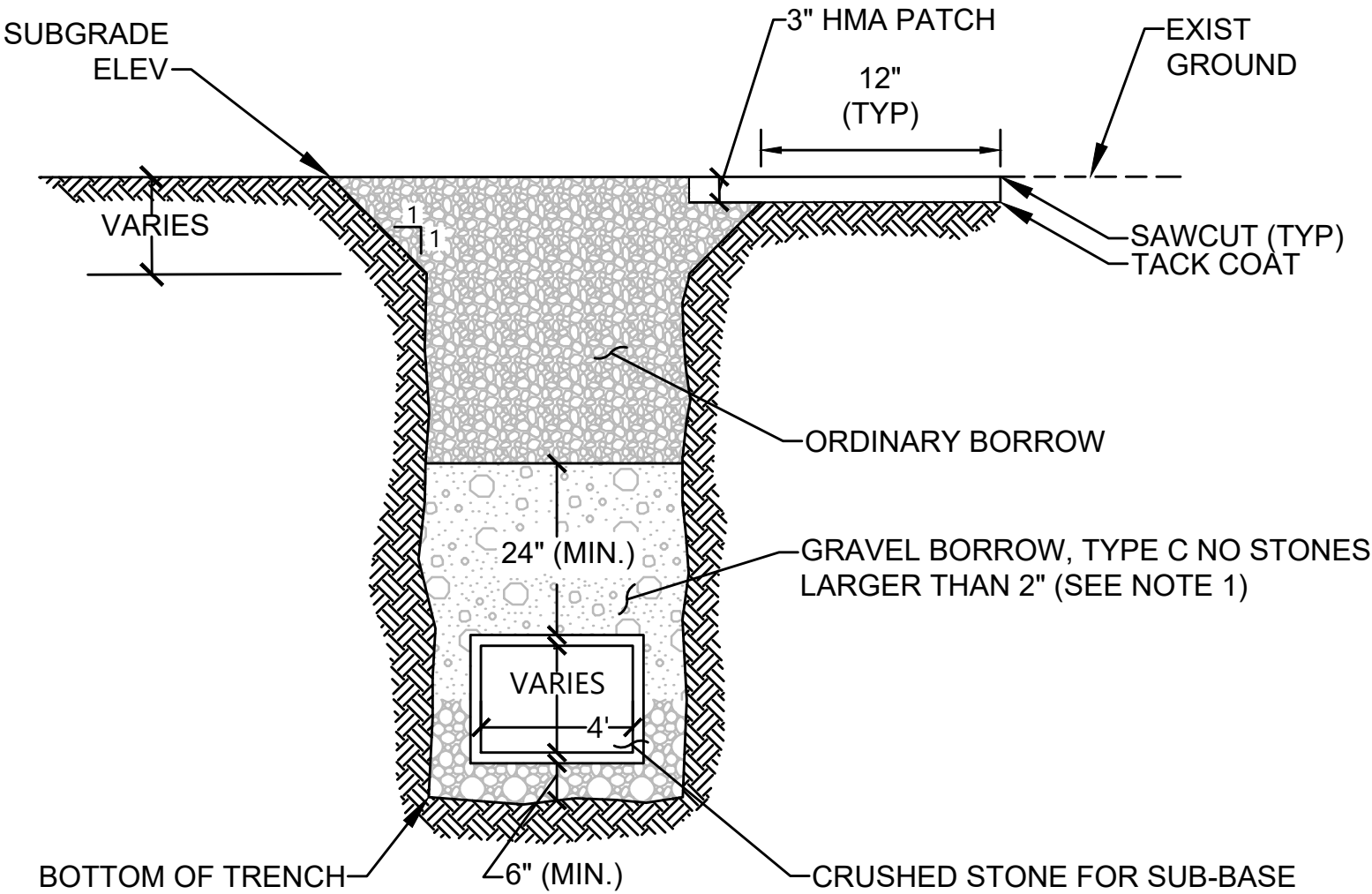


NOTES

1. CONTROLLED DENSITY FILL TO BE USED ONLY WHEN CONVENTIONAL METHODS ARE UNUSUALLY DIFFICULT AS DETERMINED BY THE ENGINEER DUE TO OBSTRUCTIONS.
2. CRUSHED STONE TO BE USED DURING WET CONDITIONS AS DIRECTED BY THE ENGINEER.

Pipe Drainage Utility Trench

SCALE: N.T.S.

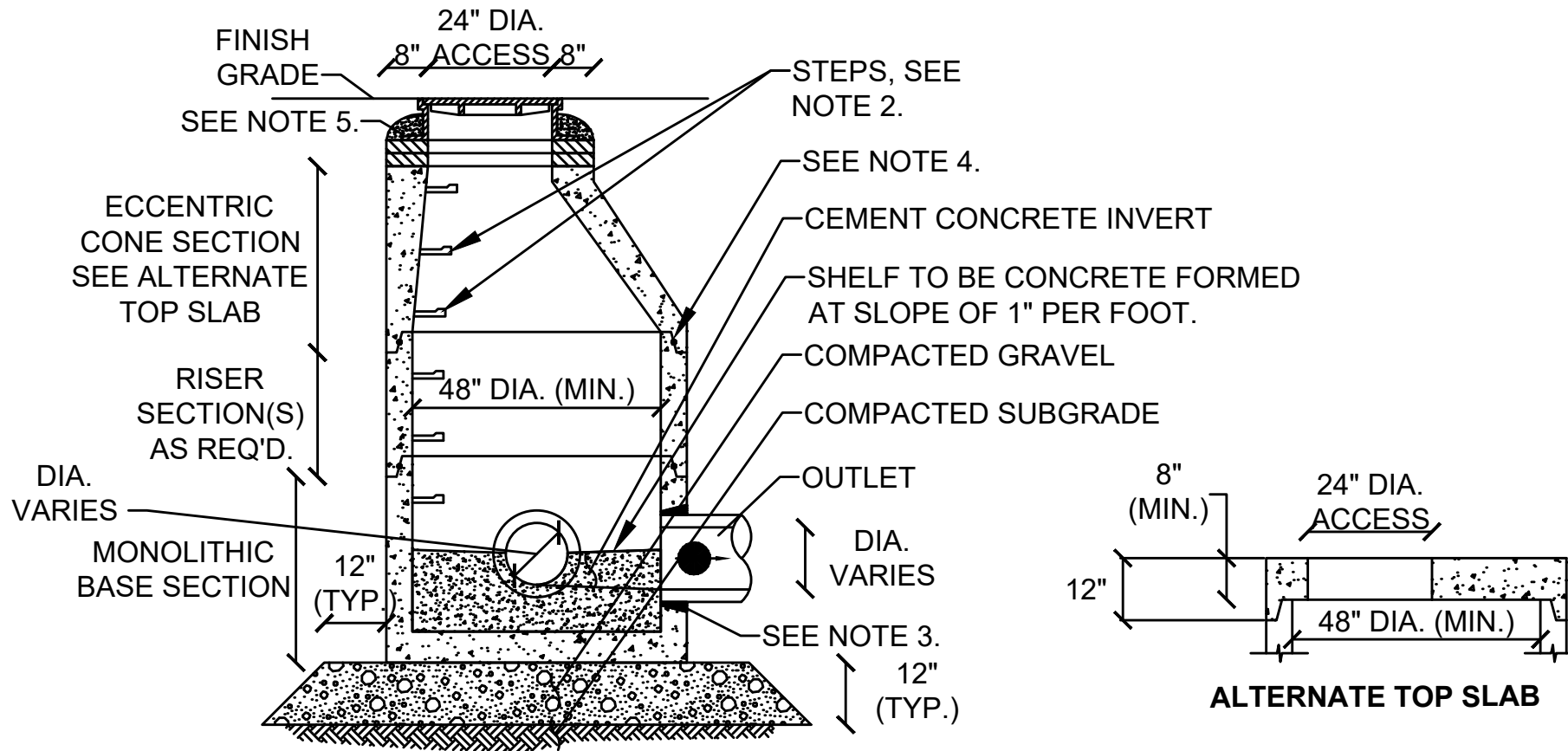


NOTES

1. CONTROLLED DENSITY FILL TO BE USED ONLY WHEN CONVENTIONAL METHODS ARE UNUSUALLY DIFFICULT AS DETERMINED BY THE ENGINEER DUE TO OBSTRUCTIONS.
2. CRUSHED STONE TO BE USED DURING WET CONDITIONS AS DIRECTED BY THE ENGINEER.

Box Culvert Drainage Utility Trench

SCALE: N.T.S.

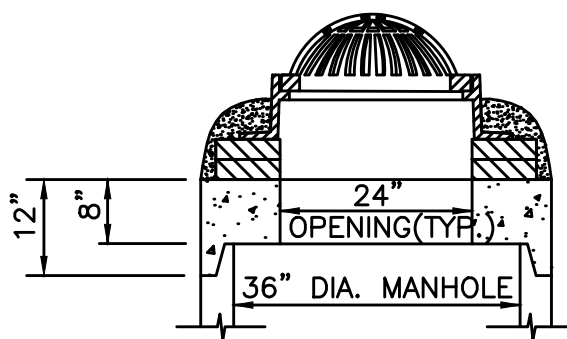


NOTES

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING. DIAMETER OF STRUCTURES SHALL BE COORDINATED WITH PIPE CONFIGURATIONS.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

Drainage Manhole (DMH)

SCALE: N.T.S.



NOTES

1. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

Alternative Top Slab And/Or Beehive Grate

SCALE: N.T.S.

CITY ENGINEER: _____ DATE: _____

NO.	DATE	DESCRIPTION	BY

NOTICE OF INTENT SUBMISSION PLAN

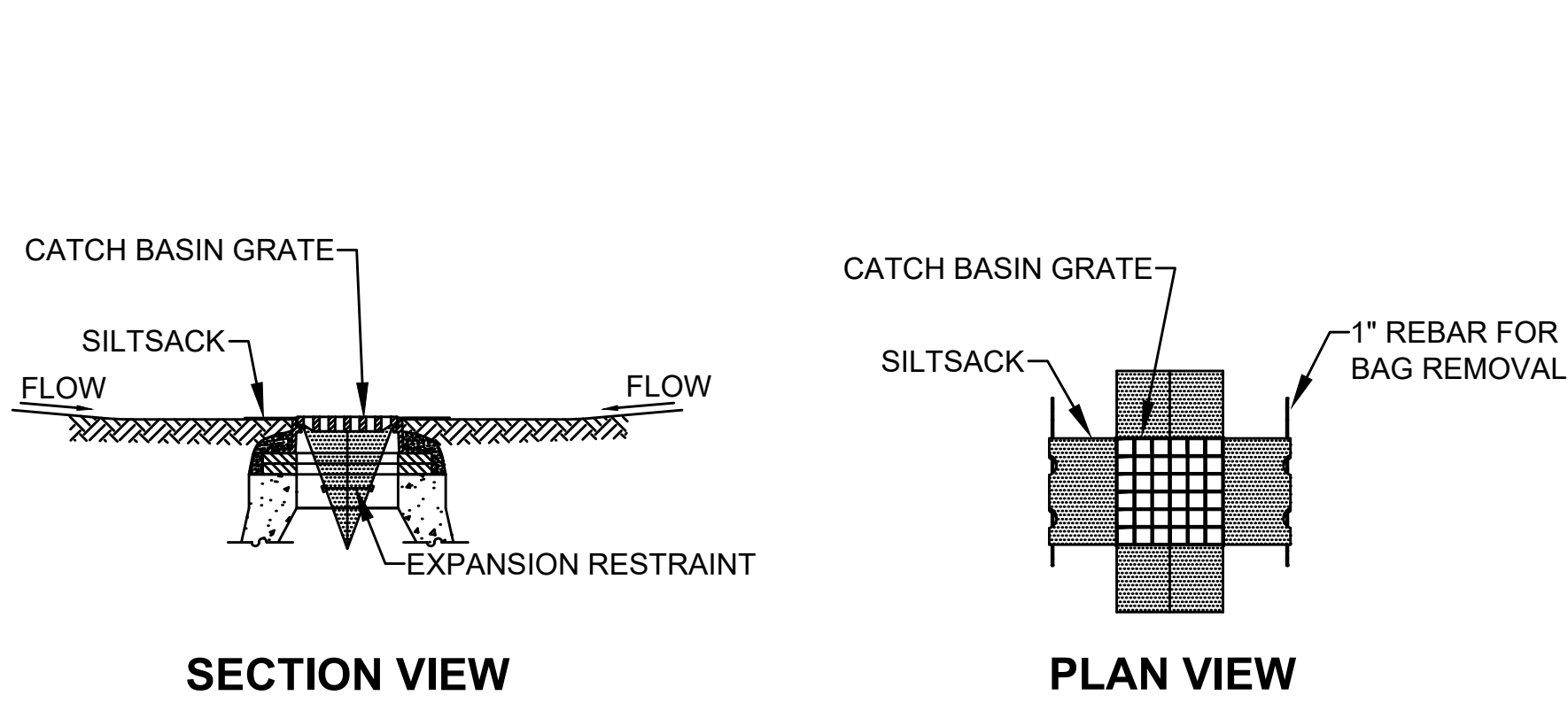
CITY OF NEW BEDFORD
DEPARTMENT OF PUBLIC INFRASTRUCTURE

TARKILN HILL ROAD DETAILS SHEET 1

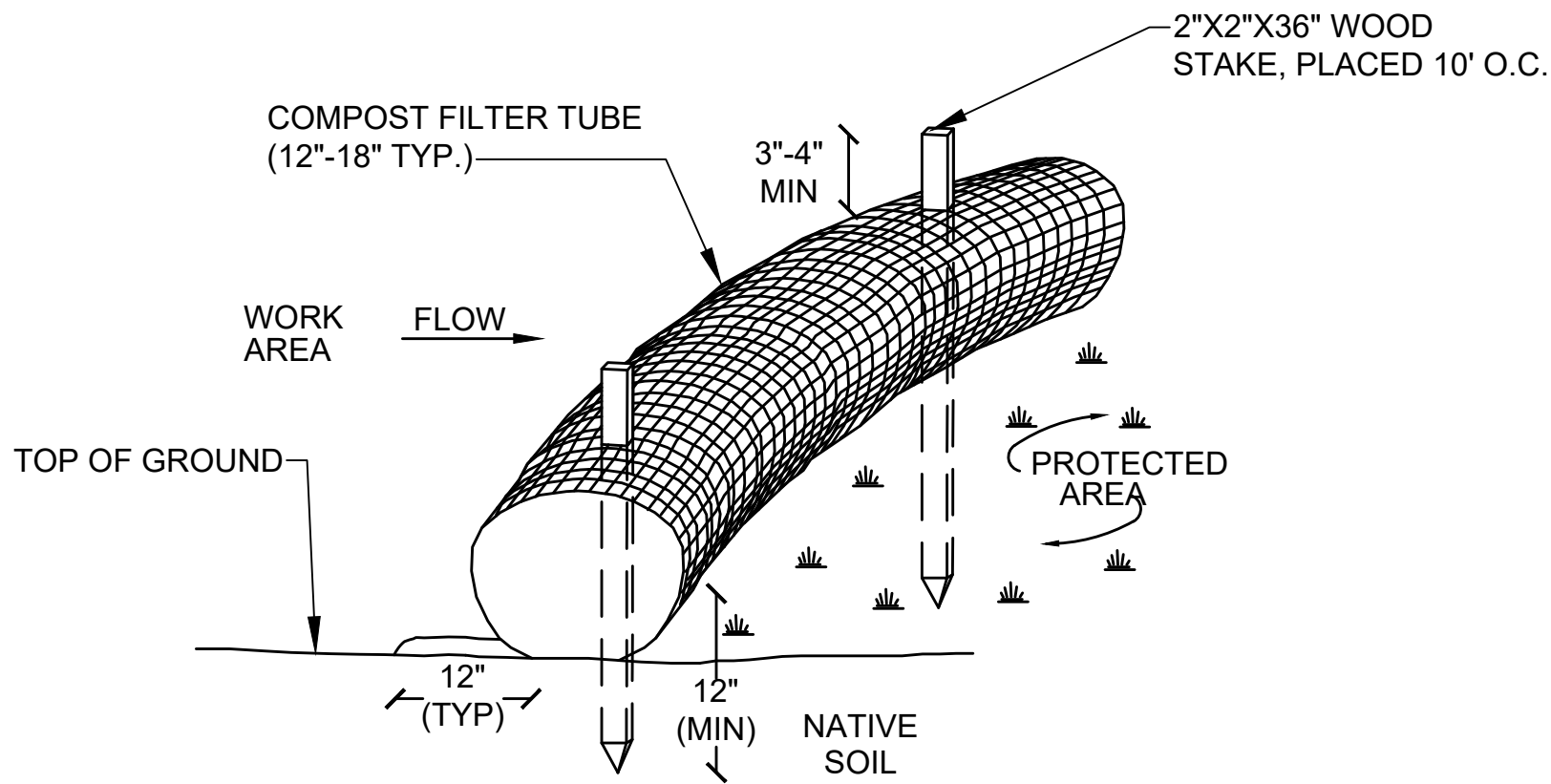
DESIGNED BY : xx
CHECKED BY : xx

SCALE: NTS
DATE : 12/13/2017

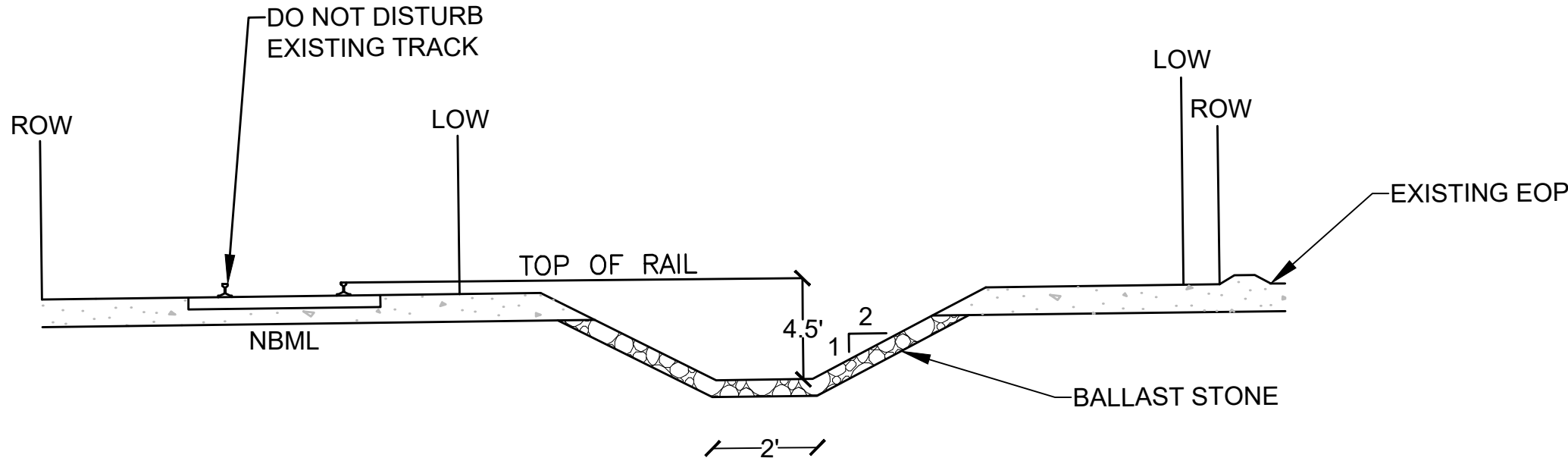
SHEET 10 OF 11



- NOTES:
1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
 2. GRATE TO BE PLACED OVER SILTSACK.
 3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED



- NOTES:
1. FILTER TUBE SHALL BE FILLED BY BLOWN IN ORGANIC COMPOST AND PLACED AS ILLUSTRATED ON THE PROJECT PLANS.
 2. COMPOST FILTER TUBES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIRED OR REPLACED AS NEEDED.
 3. AT COMPLETION OF PROJECT, COMPOST FILTER TUBES SHALL BE CUT OPEN AND COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
 4. THE EMPTY FILTER TUBE FABRIC SHALL BE COLLECTED AND DISPOSED OF PROPERLY.



Inlet Protection - Silt Sack In Catch Basin

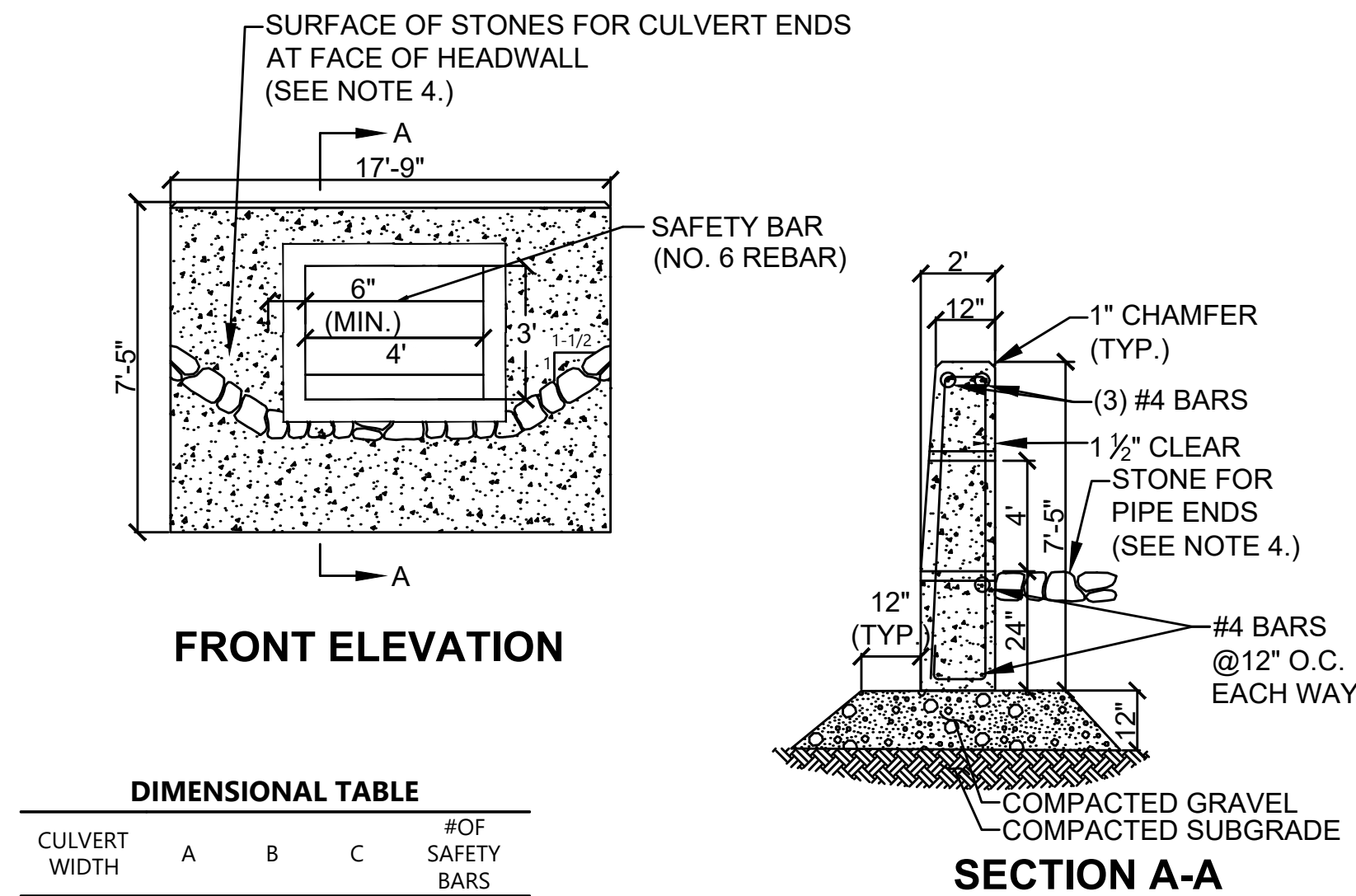
SCALE: N.T.S.

Tarkiln Hill Road Linear Sedimentation and Erosion Control

SCALE: N.T.S.

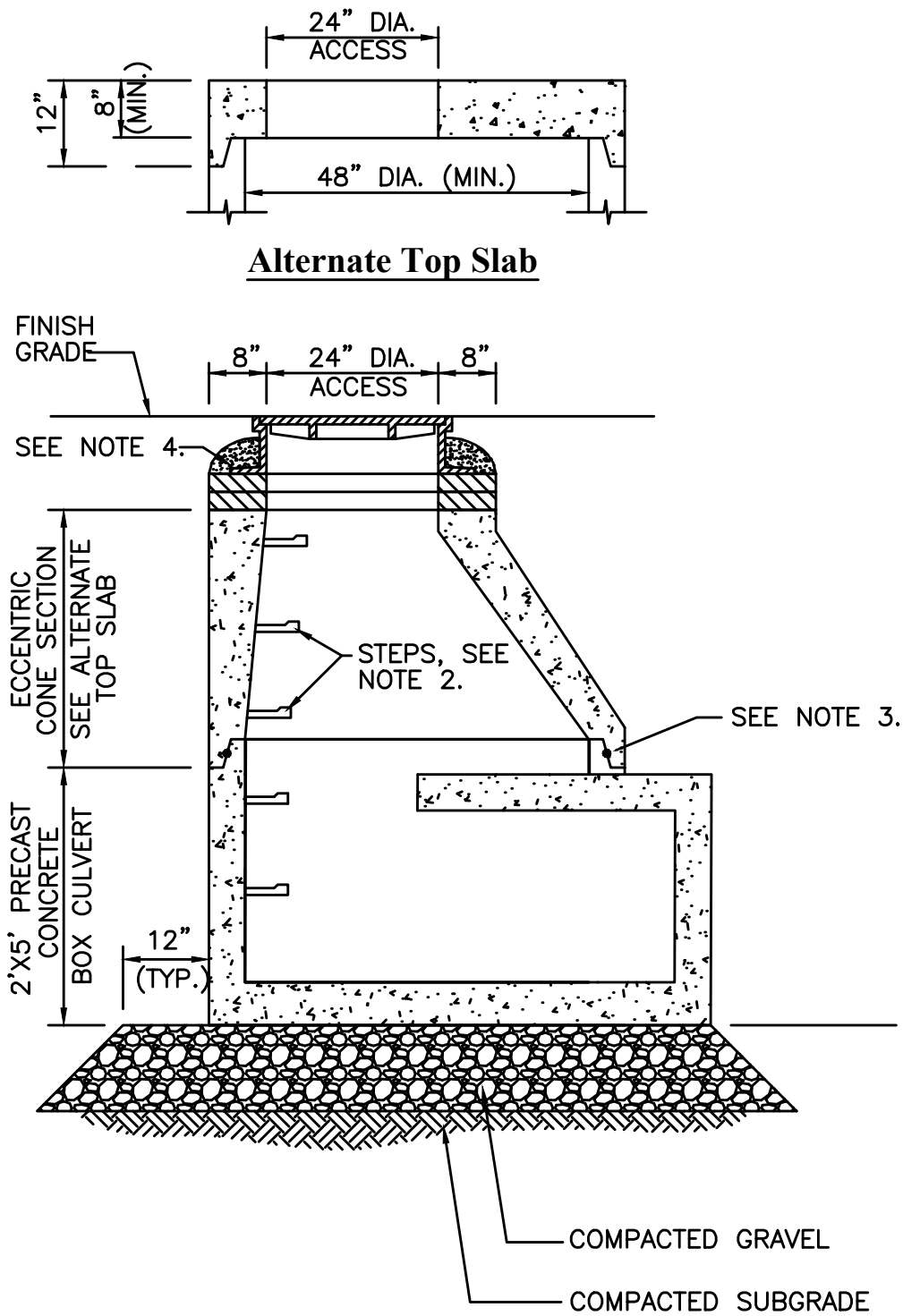
Swale

SCALE: N.T.S.



DIMENSIONAL TABLE				
CULVERT WIDTH	A	B	C	#OF SAFETY BARS
12"	5'-6"	4'-2"	1'-6"	-
15"	6'-6"	4'-5"	1'-6"	-
18"	7'-6"	4'-9"	1'-6"	1
24"	9'-0"	5'-3"	1'-6"	1
30"	11'-0"	5'-10"	1'-6"	2
36"	13'-0"	6'-4"	1'-9"	2
42"	15'-9"	6'-11"	1'-9"	3
48"	17'-9"	7'-5"	2'-0"	3
60"	21'-9"	8'-6"	2'-6"	4
72"	25'-9"	9'-7"	3'-0"	5

- NOTES:
1. CONCRETE SHALL BE AIR ENTRAINED TYPE II CEMENT WITH MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI
 2. SAFETY BARS TO BE OMITTED WHERE INDICATED ON PLANS.
 3. SAFETY BARS SHALL BE SET TO CREATE EQUAL OPENING DIMENSIONS.
 4. SEE STONE PROTECTION AT HEADWALL DETAIL.



Inspection Portal (IP)

SCALE: N.T.S.

- Notes:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 4. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

Tarkiln Hill Road Concrete Headwall (HW)

SCALE: N.T.S.

NOTICE OF INTENT SUBMISSION PLAN

CITY ENGINEER: _____ DATE: _____

NO.	DATE	DESCRIPTION	BY

CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE	
TARKILN HILL ROAD DETAILS SHEET 2	
DESIGNED BY : xx	SCALE: NTS
CHECKED BY : xx	DATE : 12/13/2017
SHEET 11 OF 11	